

FIRE ALARM	
	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR/ GRAPHIC MAP
	FIRE ALARM REMOTE POWER SUPPLY
	CONTROL MODULE
	MONITOR MODULE
	MANUAL PULLDOWN STATION
	WALL MOUNTED ADA STROBE
	ADA HORN OR SPEAKER WITH STROBE
	MINI HORN / STROBE
	ELECTROMAGNETIC DOOR HOLD OPEN
	SPRINKLER FLOW SWITCH
	SPRINKLER TAMPER SWITCH
	THERMAL DETECTOR
	PHOTOELECTRIC SMOKE DETECTOR
	COMBINATION CARBON MONOXIDE / SMOKE DETECTOR
	DUCT SMOKE DETECTOR, SUPPLY OR RETURN
	REMOTE INDICATING LIGHT (TEST SWITCH)
	120V. MOTORIZED SMOKE DAMPER
	RESCUE ASSISTANCE PHONE
	FIRE FIGHTERS PHONE JACK

DISTRIBUTION AND RACEWAY	
	MAIN DISTRIBUTION CENTER (MDC)
	SURFACE MTD PANELBOARD
	RECESSED PANELBOARD
	TRANSFORMER
	BRANCH CIRCUIT HOMERUN
	CONDUIT CONCEALED IN FLOOR OR UNDERGROUND
	CONDUIT EXPOSED OR CONCEALED IN WALL OR CEILING
	RACEWAY UP
	RACEWAY DOWN
	CAPPED CONDUIT
	CURRENT TRANSFORMER
	CIRCUIT BREAKER SWITCH
	FUSED SWITCH
	GROUNDING ELECTRODE CONDUCTOR
	METER
	GROUND FAULT PROTECTION

SYSTEMS	
	TTB, MDF OR IDF SYSTEM BACKBOARD
	TELECOMMUNICATION OUTLET
	FLOOR MOUNTED TELECOMMUNICATION OUTLET
	TELEVISION OUTLET
	CABLE TRAY (LENGTH AS INDICATED ON DRAWINGS)

WIRING DEVICES	
	DUPLEX RECEPTACLE
	FOUR PLEX RECEPTACLE
	SINGLE RECEPTACLE
	COMBO RECEPTACLE/SWITCH
	SWITCHED DUPLEX RECEPTACLE
	EMERGENCY POWERED DUPLEX RECEPTACLE
	SPECIAL PURPOSE RECEPTACLE
	FLOOR MOUNTED SPECIAL PURPOSE RECEPTACLE
	FLOOR MOUNTED RECEPTACLE DUPLEX/QUAD
	CEILING MOUNTED RECEPTACLE DUPLEX/QUAD
	SURFACE RACEWAY
	CLOCK RECEPTACLE
	JUNCTION BOX
	WALL MOUNTED J-BOX
	FLOOR MOUNTED JUNCTION BOX
	MOLDED CASE CIRCUIT BREAKER IN ENCLOSURE
	NON-FUSED DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	MAGNETIC CONTROLLER (STARTER)
	COMBINATION STARTER/DISCONNECT SWITCH
	MOTOR
	RELAY
	TIME CLOCK
	PHOTOCELL
	THERMAL OVERLOAD SWITCH
	SINGLE POLE SWITCH, LINE VOLTAGE
	3-WAY SWITCH, LINE VOLTAGE
	4-WAY SWITCH, LINE VOLTAGE
	KEY OPERATED SWITCH
	DIMMER SWITCH, LINE VOLTAGE
	RECESSED DOOR SWITCH
	LIGHTING CONTROL DEVICE, REFER TO DETAILS FOR CONTROL INTENT

ABBREVIATIONS AND SYMBOLS	
A	AMPERE(S)
AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPERES INTERRUPTING CAPACITY
ATS	AUTOMATIC TRANSFER SWITCH
BFF	BELOW FINISHED FLOOR
BOF	BOTTOM OF FIXTURE
C	CONDUIT
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CCT	CORRELATED COLOR TEMPERATURE
CLG	CEILING
CT	CURRENT TRANSFORMER
DED	DEDICATED CIRCUIT
DISC	DISCONNECT
DW	DISHWASHER
DWG(S)	DRAWING(S)
(E)	EXISTING TO REMAIN
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
(ER)	EXISTING TO BE RELOCATED
EM	EMERGENCY
EPO	EMERGENCY POWER OFF
EWC	ELECTRIC WATER COOLER
F	FUSE
FLA	FULL LOAD AMPS
FS	SPRINKLER FLOW SWITCH
G	GROUND
GC	GENERAL CONTRACTOR
GD	GARBAGE DISPOSAL
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTION
HP	HORSEPOWER
IDF	INTERMEDIATE DISTRIBUTION FACILITY
IG	ISOLATED GROUND
ISC	SHORT CIRCUIT CURRENT
KVA	KILOVOLT-AMPERE(S)
KW	KILOWATT(S)
LSI	LONG TIME, SHORT TIME, INSTANTANEOUS
LTG	LIGHTING
MCA	MINIMUM CIRCUIT AMPERE(S)
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION CENTER
MDF	MAIN DISTRIBUTION FACILITY
MLO	MAIN LUGS ONLY
MTS	MANUAL TRANSFER SWITCH
MW	MICROWAVE
NC	NORMALLY CLOSED
NL	NIGHT LIGHT - SEE GENERAL NOTES
NO	NORMALLY OPEN
OAE	OR APPROVED EQUAL
OFH	OVERALL FIXTURE HEIGHT
OH	OVERHEAD
P	POLE
PART	PARTIAL CIRCUIT
PH	PHASE
PNL	PANEL
RCPT	RECEPTACLE
REF	REFRIGERATOR
RFD	RECESSED FIXTURE DEPTH
(R)	EXISTING TO BE REMOVED
(RL)	RELOCATED LOCATION
SPD	SURGE PROTECTION DEVICE
SME	STRUCTURED MEDIA ENCLOSURE
TS	SPRINKLER TAMPER SWITCH
UC	UNDER COUNTER/CABINET
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
V	VOLT(S)
W	WATT(S) OR WIRE
WFD	WALL FIXTURE DEPTH
WG	WIRE GUARD
WP	WEATHERPROOF
XFMR	TRANSFORMER
	POOL EQUIPMENT SCHEDULE NOTATION
	KITCHEN EQUIPMENT SCHEDULE NOTATION
	MECHANICAL EQUIPMENT SCHEDULE NOTATION
	DETAIL NOTE
	DELTA REVISION NOTE
	ELECTRICAL WIRE SIZE
	LIGHTING CONTROLS SEQUENCE OF OPERATION

COVERSHEET NOTES	
1.	THE CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIAL NECESSARY FOR A COMPLETE AND FUNCTIONING ELECTRICAL SYSTEM.
2.	MATERIALS AND INSTALLATION SHALL COMPLY WITH CODES, LAWS AND ORDINANCES OF FEDERAL, STATE AND LOCAL GOVERNING BODIES HAVING JURISDICTION.
3.	MATERIALS AND EQUIPMENT SHALL BE LISTED AND/OR LABELED BY U.L., ETL, CSA OR ANOTHER RECOGNIZED TESTING LAB.
4.	ALL WORK REQUIRED FOR THE INSTALLATION AS SHOWN ON DRAWINGS INCLUDING LABOR, EQUIPMENT AND MATERIALS SHALL BE IN STRICT COMPLIANCE WITH THE BUILDING STANDARDS, EXCEPT AS NOTED OTHERWISE.
5.	THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, GOVERNMENTAL FEES, TAXES AND LICENSES NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE ELECTRICAL WORK.
6.	THE CONTRACTOR SHALL PREPARE AND SUBMIT TO GOVERNMENTAL AGENCIES AND UTILITY COMPANIES SHOP DRAWINGS, WHICH ARE REQUIRED BY THESE AGENCIES, FOR THEIR APPROVAL.
7.	THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER/OWNER OF ANY MATERIALS OR APPARATUS BELIEVED TO BE INADEQUATE, UNSUITABLE, IN VIOLATION OF LAWS, ORDINANCES, RULES OR REGULATIONS OF AUTHORITIES HAVING JURISDICTION.
8.	THE CONTRACTOR SHALL CAREFULLY EXAMINE THE CONTRACT DOCUMENTS, VISIT THE SITE, AND THOROUGHLY BECOME FAMILIAR WITH THE BUILDING STANDARDS AND LOCAL CONDITIONS RELATING TO THE WORK. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF THE OBLIGATIONS OF THE CONTRACT .
9.	ALL MATERIALS, AND EQUIPMENT SHALL BE ERECTED, INSTALLED, CONNECTED, CLEANED, ADJUSTED, TESTED, CONDITIONED, AND PLACED IN SERVICE IN ACCORDANCE WITH THE MANUFACTURERS DIRECTIONS AND RECOMMENDATIONS.
10.	ALL CUTTING, DRILLING AND PATCHING OF MASONRY, STEEL OR IRON WORK BELONGING TO THE BUILDING MUST BE DONE BY THIS CONTRACTOR IN ORDER THAT THEIR WORK MAY BE PROPERLY INSTALLED, BUT UNDER NO CONDITIONS MAY STRUCTURAL WORK BE CUT, EXCEPT AT THE DIRECTION OF THE ARCHITECT-DESIGNER OR THEIR REPRESENTATIVE.
11.	E.C. IS TO REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ALL FIRE RATED PENETRATION INSTALLATION REQUIREMENTS. E.C. IS TO NOTIFY ENGINEER AND ARCHITECT PRIOR TO INSTALLING ANY FIXTURES WITHIN A FIRE RATED CEILING OR WALL. FIRE RATING MUST BE MAINTAINED FOR THIS TYPE OF INSTALLATION WITH DRYWALL TENTING.
12.	SHOP DRAWINGS SHALL INCLUDE MANUFACTURER'S NAMES, CATALOG NUMBERS, CUTS, DIAGRAMS AND OTHER SUCH DESCRIPTIVE DATA AS MAY BE REQUIRED TO IDENTIFY AND REVIEW THE EQUIPMENT. SUBMITTALS SHALL BE IN LOGICAL GROUPS, FOR EXAMPLE, ALL LIGHTING FIXTURES, PARTIAL SUBMITTALS WILL NOT BE REVIEWED.
13.	SUBMIT (3) DIGITAL COPIES OF THE FOLLOWING SHOP DRAWINGS FOR REVIEW: A. SWITCH BOARD, PANELBOARDS, AND METERING EQUIPMENT B. DISCONNECTS C. FIRE ALARM SYSTEMS D. TRANSFORMERS E. PROVIDE "AS-BUILT" DRAWINGS AND SUBMIT TO ARCHITECT/DESIGNER.
14.	ALL MATERIAL, EQUIPMENT, WIRING DEVICES, ETC. SHALL BE NEW, UNLESS SPECIFICALLY INDICATED AS EXISTING TO BE REUSED.
15.	CONTRACTOR SHALL OBTAIN AND VERIFY EXACT UTILITY COMPANY DRAWINGS AND REQUIREMENTS. ELECTRICAL CONTRACTOR IS TO SUBMIT A COMPLETE CONSTRUCTION DRAWING SET TO THE ELECTRICAL UTILITY COMPANY WITHIN 10 DAYS OF AWARD OF CONTRACT . COORDINATE TIMELINE OF THE REVIEW, APPROVAL, ALL ASSOCIATED DOWN TIME, CONSTRUCTION SCHEDULING, DELIVERY, AND INSTALLATION OF THE UTILITY TRANSFORMER. NOTIFY OWNER OF SCHEDULING CONFLICTS.
16.	ALL NEW CIRCUIT BREAKERS FOR NEW OR EXISTING PANELBOARDS SHALL MATCH EXISTING BUILDING PANELBOARD MANUFACTURER AND BREAKER TYPE. THE CONTRACTOR SHALL PROVIDE NEW TYPE WRITTEN PANEL DIRECTORIES FOR ALL NEW PANELS AND EXISTING PANELS WHICH HAVE CHANGED. PANELBOARD SHALL BE MARKED WHERE THE SOURCE OF POWER SUPPLY ORIGINATES, AND IF SERIES COMBINATION SYSTEMS ARE UTILIZED AND THEIR LISTED AMPERE RATING.
17.	DO NOT SHARE NEUTRAL CONDUCTORS FOR MULTIWIRE BRANCH CIRCUITS. WHERE SHARED NEUTRAL CONDUCTORS ARE REQUIRED (SUCH AS POWERED FURNITURE SYSTEMS), HANDLE TIES SHALL BE PROVIDED ON THE CIRCUIT BREAKERS, WITH SHARED NEUTRALS, SUCH THAT IT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS. ALL HANDLE TIES ARE REQUIRED TO BE INDICATED ON THE PANELBOARD SHOP DRAWINGS.
18.	SHOULD ACTUAL FIELD CONDITIONS REQUIRE INDICATED CIRCUIT DESIGNATIONS TO VARY, INDICATE THE CIRCUIT NUMBER USED ON THE "AS-BUILT" DRAWINGS.
19.	ALL SERVICE EQUIPMENT (OTHER THAN IN DWELLING UNITS) SHALL BE LEGIBLY MARKED IN THE FIELD BY THE ELECTRICAL CONTRACTOR WITH THE MAXIMUM AVAILABLE FAULT CURRENT AS INDICATED WITHIN THESE DOCUMENTS. THE FIELD MARKING(S) SHALL COMPLY WITH ELECTRICAL SPECIFICATIONS FOR READABILITY AND DURABILITY.
20.	PROVIDE COMPLETE METAL RACEWAY SYSTEMS AND ENCLOSURES FOR ALL WIRING THROUGHOUT THE EXTENT OF THE REQUIRED DISTRIBUTION SYSTEM. A. UTILIZE RIGID POLYVINYL CHLORIDE CONDUIT (PVC) IN THE FOLLOWING LOCATIONS: • UNDERGROUND B. UTILIZE ELECTRICAL METALLIC TUBING (EMT), MINIMUM SIZE OF 3/4", IN THE FOLLOWING LOCATIONS: • SERVICE & FEEDERS • POWER CIRCUIT HOMERUN • BRANCH CIRCUITS IN CONCEALED OR EXPOSED LOCATIONS • TELEPHONE/DATA/CATV ROUGH-IN C. UTILIZE METAL-CLAD CABLE (MC) IN THE FOLLOWING LOCATIONS: • BRANCH CIRCUIT IN CONCEALED LOCATIONS • FINAL CONNECTION TO RECESSED LIGHTING FIXTURES • FINAL CONNECTION TO STEP-DOWN TRANSFORMERS
24.	ALL NEW CIRCUITS SHALL HAVE A GROUND WIRE INSTALLED.
25.	ALL WIRING NOT INSTALLED IN CONDUIT AND INSTALLED IN THE CEILING SPACE SHALL BE PLENUM RATED.
26.	ELECTRICAL CONTRACTOR SHALL PROVIDE ALL SPECIAL OUTLET BOXES THAT MAY BE REQUIRED TO ENCLOSE RECEPTACLES.
27.	EACH SWITCH, LIGHT, RECEPTACLE AND OTHER MISCELLANEOUS DEVICE SHALL BE PROVIDED WITH A GALVANIZED OR PRESSED STEEL OUTLET BOX OF THE KNOCKOUT TYPE, OF NOT LESS THAN NO. 14 U.S. GAUGE STEEL. CONDUITS SHALL BE FASTENED WITH LOCKNUTS AND BUSHINGS AND ALL UNUSED KNOCKOUTS MUST BE LEFT SEALED. THERE MUST BE SUFFICIENT ROOM FOR WIRES AND BUSHINGS AND DEEP BOXES SHALL BE INSTALLED WHERE REQUIRED. BOXES SHALL BE SECURELY AND ADEQUATELY SUPPORTED.
28.	IN EXPOSED AND SUSPENDED CEILING APPLICATIONS, ROUTE CONDUIT AS CLOSE TO STRUCTURAL SLAB OR DECK AS POSSIBLE, AND SUPPORT CONDUIT AND JUNCTION BOXES DIRECTLY FROM THE STRUCTURAL SLAB, DECK, OR FRAMING PROVIDED FOR THAT PURPOSE. LIGHTING BRANCH CIRCUIT CONDUITS SHALL NOT BE CLIPPED TO THE CEILING SYSTEM HAS BEEN SPECIFICALLY DESIGNED FOR THAT PURPOSE.
29.	ALL EXPOSED CONDUIT SHALL BE CONCEALED TO THE GREATEST EXTENT POSSIBLE, AND SHALL BE INSTALLED PARALLEL AND CLOSE TO STRUCTURAL MEMBERS. GENERAL CONTRACTOR SHALL PAINT CONDUIT TO MATCH ADJACENT FINISHES.
30.	WHERE FLOOR FITTINGS REQUIRE PENETRATION OF THE FLOOR SLAB, THEY SHALL BE STANDARD DEVICE LISTED BY UL FOR THE PURPOSE AND HAVE A UL FIRE RATING EQUAL TO THE FLOOR RATING. FLOOR SERVICE BOXES SHALL BE MODULAR, ADJUSTABLE FLUSH TYPE, DUAL SERVICE UNITS SUITABLE FOR WIRING METHOD USED. COMPARTMENT BARRIERS SHALL SEPARATE POWER FROM LOW VOLTAGE CABLING. PROVIDE RECTANGULAR SERVICE PLATE WITH SATIN FINISH.
31.	ALL RECEPTACLES SHALL BE SPECIFICATION GRADE NEMA 5-20R, UNLESS OTHERWISE NOTED.
32.	ALL LIGHT SWITCHES SHALL BE SPECIFICATION GRADE, QUIET OPERATION RATED 120V/277 VOLT, 20 AMPS, UNLESS OTHERWISE NOTED.
33.	ALL FACE PLATE AND DEVICE COLORS SHALL BE APPROVED BY ARCHITECT OR OWNER/LEASEE.
34.	PROVIDE LUMINAIRES SHOWN AS SHADED WITH EMERGENCY BATTERY BACKUP POWER. EMERGENCY LUMINAIRES SHALL SENSE UNSWITCHED POWER TO THE SPACE AND OPERATE AUTOMATICALLY UPON LOSS OF NORMAL POWER. ALL SHADED LUMINAIRES WITH LED SOURCES SHALL BE PROVIDED WITH 90 MINUTES OF BATTERY BACKUP POWER. ALL EMERGENCY LUMINAIRES SHALL HAVE INTEGRAL OR REMOTE TEST SWITCHES AS INDICATED IN THE FIXTURE SCHEDULE AND VISIBLE INDICATING LIGHTS. CONNECT THE EMERGENCY BATTERY BALLAST/DRIVER TO THE UN-SWITCHED LEG OF THE LIGHTING CIRCUIT INDICATED.
35.	CIRCUIT ALL EMERGENCY LIGHTING UNITS (FROG EYES) AND EXIT SIGNS TO NEAREST LOCAL AREA LIGHTING BRANCH CIRCUIT AHEAD OF ALL SWITCHLEGS, UNLESS OTHERWISE NOTED.
36.	UNLESS OTHERWISE NOTED, LUMINAIRES DESIGNATED AS NIGHT LIGHT (NL) SHALL BE CONNECTED AHEAD OF LOCAL SWITCHING AND REMAIN ON 24 HOURS A DAY.
37.	ALL DIMMED LIGHTING CIRCUITS ARE TO RECEIVE DEDICATED NEUTRALS. DO NOT SHARE NEUTRALS ON DIMMED LIGHTING CIRCUITS.
38.	PROVIDE OWNER WITH A COMPLETE LISTING OF ALL LAMPS UTILIZED ON THE PROJECT INCLUDING MANUFACTURER AND CATALOG INFORMATION. PROVIDE A SUGGESTED SOURCE, INCLUDING CONTACT NAME AND PHONE NUMBER, FOR REORDERING.
39.	THE CONTRACTOR SHALL VERIFY THE CEILING TYPE BEFORE ORDERING LIGHTING.
40.	ROUGH-IN FOR MECHANICAL EQUIPMENT SHALL ONLY OCCUR AFTER MECHANICAL EQUIPMENT SUBMITTALS ARE THOROUGHLY REVIEWED FOR CHANGES. NOTIFY ENGINEER OF ANY DISCREPANCIES.
41.	FINAL LAYOUT AND QUANTITY OF ALL FIRE ALARM DEVICES SUBJECT TO APPROVAL OF LOCAL AUTHORITY HAVING JURISDICTION.
42.	PROVIDE NEMA 3R AND CORROSION RESISTANT ELECTRICAL EQUIPMENT AND WIRING METHODS WITHIN POOL EQUIPMENT, POOL AND WHIRLPOOL AREAS. REFER TO DRAWINGS AND SPECIFICATION.
43.	EC SHALL COORDINATE ELECTRIC WATER COOLER RECEPTACLE PLACEMENT SUCH THAT THE RECEPTACLE IS ACCESSIBLE WITHIN THE WATER COOLER SHROUD, YET CONCEALED BY THE SHROUD PER NEC 422.33(A). PROVIDE 5mA GFCI CIRCUIT BREAKER IN ELECTRICAL PANEL PER NEC SECTION 422.
44.	THE POWER AND CONTROL REQUIREMENTS FOR ALL EQUIPMENT CONNECTIONS SHALL BE CONFIRMED WITH APPROVED SHOP DRAWINGS PRIOR TO ELECTRICAL ROUGH-IN. FINAL POWER REQUIREMENTS, DIMENSIONED ROUGH-IN LOCATIONS, LOW VOLTAGE SYSTEM CONNECTIONS, ETC. SHALL BE CONFIRMED AND MODIFIED AS REQUIRED.
45.	ALL DEVICES IN OR ABOVE COUNTERS SHALL HAVE LOCATIONS AND MOUNTING HEIGHTS CONFIRMED WITH ARCHITECTURAL ELEVATIONS & OWNER PRIOR TO ROUGH-IN. ANY ADJUSTMENTS TO MOUNTING HEIGHTS REQUIRED BY LACK OF COORDINATION WILL BE AT THE CONTRACTOR'S EXPENSE.
46.	ALL EXISTING ELECTRICAL SERVICES NOT SPECIFICALLY INDICATED TO BE REMOVED OR ALTERED SHALL REMAIN AS THEY PRESENTLY EXIST.
47.	IDENTIFY EACH RECEPTACLE WITH PANELBOARD IDENTIFICATION AND CIRCUIT NUMBER. USE HOT, STAMPED, OR ENGRAVED MACHINE PRINTING WITH BLACK-FILLED LETTERING ON FACE OF PLATE, AND DURABLE WIRE MARKERS OR TAGS INSIDE OUTLET BOXES.
48.	UNLESS OTHERWISE NOTED, ALL GFCI RECEPTACLES SHALL HAVE TEST/RESET SWITCHES INTEGRAL TO RECEPTACLE DEVICE.
49.	IN ACCORDANCE WITH 2018 IBC, ROUTT COUNTY AMENDMENTS, AND ASCE 7-16, SECTION 13.1.3. AND 13.1.4, ELECTRICAL AND FIRE ALARM COMPONENTS POSITIVELY ATTACHED TO THE STRUCTURE, AT AN IMPORTANCE FACTOR OF 1.0 AND WITHIN SEISMIC DESIGN CATEGORY C SHALL BE EXEMPT FROM CHAPTER 13 SEISMIC DESIGN REQUIREMENTS FOR NON-STRUCTURAL COMPONENTS. CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND FOR EXACT SEISMIC DESIGN AND LOAD INFORMATION.

TYPICAL 9'-0" CEILING	
TYPICAL 8'-0" CEILING	
TO BOTTOM OF DEVICE (SEE NOTE 4)	
TOP OF CABINET	
CENTER OF CABINET	
TO CENTER	
TO CENTER	
TO BOTTOM	
(SEE NOTE 6)	
TO CENTER	
1'-6"	
NOTES:	
1. WHERE MULTIPLE LINE VOLTAGE DEVICES ARE SHOWN ADJACENT TO EACH OTHER, THEY ARE ALL TO SHARE THE SAME JUNCTION BOX. UP TO FOUR GANGS.	
2. WHERE MORE THAN FOUR DEVICES ARE SHOWN ADJACENT TO EACH OTHER, DEVICES ARE TO STACK VERTICALLY ABOVE ONE ANOTHER IN TWO ROWS IN AS SMALL OF GANG BOXES AS POSSIBLE. I.E. SIX DEVICES WILL USE TWO THREE GANG BOXES, FIVE DEVICES WILL USE ONE THREE GANG AND ONE TWO GANG BOX. WHEN DIMMERS ARE GANGED TOGETHER, REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR DE-RATING.	
3. BACK-TO-BACK JUNCTION BOXES IN COMMON WALLS ARE NOT PERMITTED. JUNCTION BOXES SHALL BE SEPARATED BY AT LEAST ONE STUD WHEREVER POSSIBLE.	
4. AUDIBLE/VISUAL FIRE ALARM DEVICES SHOWN ARE TO BE MOUNTED AT 90" OR 6" BELOW CEILING, WHICHEVER IS LOWER. ADA STROBES TO BE MOUNTED AT 80" AFF OR 6" BELOW CEILING, WHICHEVER IS LOWER.	
5. MAXIMUM ELEVATION FOR ALL LOAD CENTER CIRCUIT BREAKERS SHALL NOT EXCEED 48" AFF, WITHIN DWELLING UNITS.	
6. THE E.C. SHALL REFER TO ARCHITECTURAL ELEVATIONS TO COORDINATE ALL COUNTER HEIGHTS. ALL "AC" DEVICES SHALL HAVE BOTTOM OF BACK BOX MOUNTED 1" ABOVE THE BACK BOX FLUSH.	
7. THE TOP MOST CIRCUIT BREAKER OF ALL 'ADA' ACCESSIBLE, TYPE A, OR TYPE B ADAPTABLE RESIDENTIAL UNIT LOAD CENTERS AND THE TOP OF MEDIA ENCLOSURES WITHIN 'ADA' ACCESSIBLE, TYPE A, OR TYPE B ADAPTABLE UNITS SHALL NOT BE MORE THAN 4'-0" AFF.	
1   DEVICE MOUNTING HEIGHT	
E0.00   NTS	

TOWN STAMP

# 359

DESIGN

1900 Wazee Street Suite #205  
Denver, CO 80202 303.296.3034  
aedesign-inc.com Proj #16219.00

## The Amble

Steamboat Springs, CO

REVISIONS

No.	Description	Date
1	PERMIT COMMENT RESPONSE	02.08.2024
2	IFC	03.15.2024
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34		
35		
36		
37		
38		
39		
40		
41		
42		
43		
44		
45		
46		
47		
48		
49		

PROJECT NUMBER: 20919  
ISSUE DATE: 03/15/2024

The Amble

IFC SET

SHEET TITLE

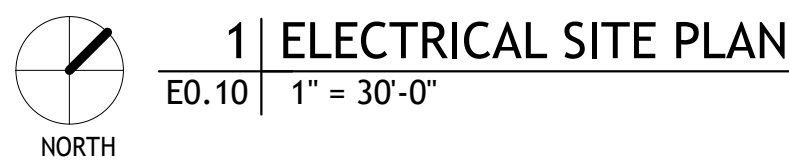
ELECTRICAL COVER SHEET

SHEET NO.

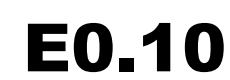
# E0.00

3/20/2024 4:41:30 PM



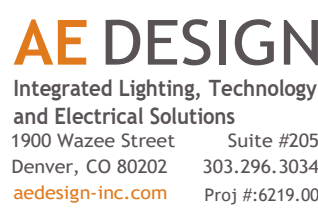


KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
1	NEW YAMPA VALLEY ELECTRIC ASSOCIATION (YVEA) PAD MOUNTED UTILITY TRANSFORMER. CONTRACTOR SHALL COORDINATE EXACT TRANSFORMER LOCATION AND ORIENTATION WITH UTILITY AS REQUIRED TO PROVIDE MINIMUM CLEARANCES, INCLUDING 10'-0" MINIMUM CLEARANCE FROM BUILDING, 10'-0" CLEAR IN FRONT OF TRANSFORMER CABINET ACCESS DOORS, AND AS REQUIRED TO COORDINATE POSITION OF PRIMARY AND SECONDARY CONDUIT ENTRY AREAS WITHIN PAD/Vault AND TRANSFORMER ENCLOSURE. TRANSFORMER Vault ANTICIPATED TO BE PROVIDED BY UTILITY (YVEA). CONTRACTOR SHALL COORDINATE EXACT TRANSFORMER PAD/VAULT INSTALLATION REQUIREMENTS WITH UTILITY PRIOR TO COMMENCING WORK. NEW PRIMARY FEEDER ANTICIPATED TO BE PROVIDED BY UTILITY (YVEA). CONTRACTOR SHALL PROVIDE NEW SECONDARY WIRING AND CONDUIT AS SHOWN. THE CONTRACTOR SHALL PERFORM ALL TRENCHING AND BACKFILLING ON THE SECONDARY SIDE OF THE TRANSFORMER. REFER TO ELECTRICAL ONE-LINE DIAGRAM FOR MORE INFORMATION. ALL NEW FEEDER CONDUIT AND CONDUIT INSTALLATIONS SHALL COMPLY WITH ALL APPLICABLE NEC REQUIREMENTS (BUT NOT LIMITED TO: 110.14(B), 230.46, 300.5(E), 300.13 AND 300.15. COORDINATE ALL WORK WITH OWNER AND UTILITY (YVEA) PRIOR TO START OF CONSTRUCTION.
2	APPROXIMATE ROUTING OF CONDUIT BETWEEN TELECOMMUNICATIONS UTILITY CONNECTIONS PEDESTAL AND THE BUILDING M/F LOCATION FOR LOW VOLTAGE TELECOMMUNICATIONS UTILITY SERVICE CABLING RACEWAY. REFER TO LOW VOLTAGE RISER DIAGRAM #11/E6.01 FOR MORE INFORMATION.
3	CONTRACTOR SHALL COORDINATE EXIST BOOTHING TO FIRE PUMP CONTROLLER IN GARAGE LEVEL MECHANICAL ROOM (MEP-108) WITH FINAL GRADING AND WATER ENTRY UTILITIES AS REQUIRED. REFER TO ONE-LINE DIAGRAM FOR MORE INFORMATION.
4	APPROXIMATE ROUTING OF ELECTRICAL SECONDARY FEEDERS BETWEEN UTILITY ELECTRICAL SERVICE TRANSFORMERS AND BUILDING MAIN ELECTRICAL SERVICE EQUIPMENT. REFER TO ELECTRICAL ONE-LINE FOR MORE INFORMATION. SECONDARY FEEDER SHALL REMAIN UNDERGROUND, OUTSIDE OF BUILDING FOR ENTRY RISE.
5	INSTALL IN-GRADE PULL-BOX FOR NEW TELECOMMUNICATIONS SERVICES. PROVIDE HUBBELL QUATZITE PG 22 SERVICES COMMUNICATIONS IN-GROUP PULL-BOX, 24"x4"x 36"x 18"DEEP, ASSEMBLED WITH TWO CONDUITS (12" LISTED, OPT. BOTTOM BOX STYLE, ANSI/SCITE-77 T2 RATING, PREPARED FOR HEX-HEAD SELF-CLEANING ALUMER BOLTS, CATALOG NO. PG2436BA18 (OR APPROVED EQUIV. SUBSTITUTIONS), COVER LABELLED "COMMUNICATIONS". COORDINATE EXACT LOCATION IN FIELD WITH NEW UTILITY TRANSFORMERS, UNDERGROUND ELECTRICAL UTILITIES, AND LOW-VOLTAGE SERVICE PROVIDER INTERCONNECTION POINT(S) PRIOR TO ROUTE-IN.





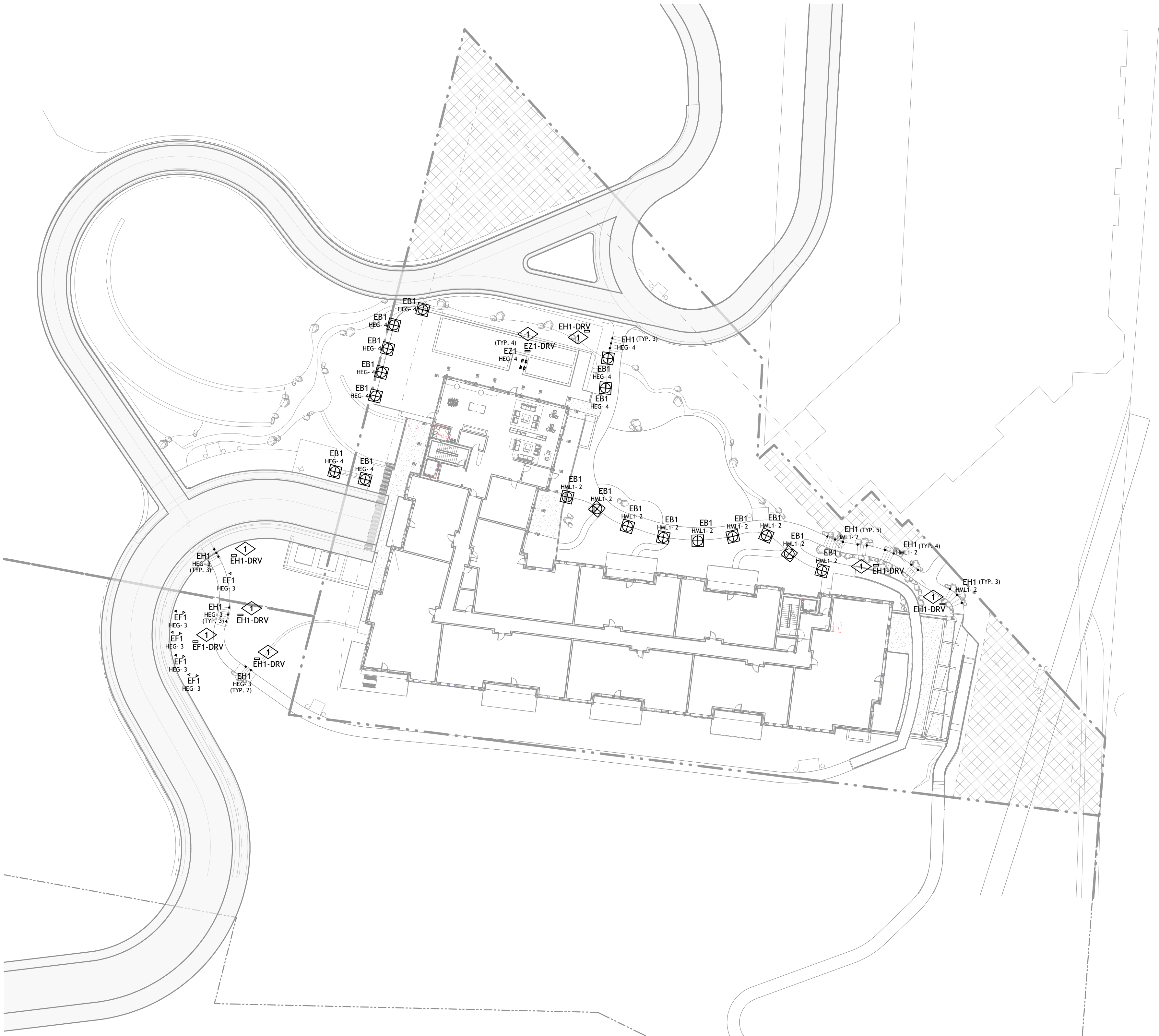
2633 OSAGE STREET  
DENVER, CO 80211  
720.512.3437



Steamboat Springs, CO

A.	LIGHTING IS SHOWN FOR CIRCUITING PURPOSES ONLY. REFERENCE ILC "EL" SERIES SHEETS FOR MORE INFORMATION ON LIGHT FIXTURES, LIGHTING CONTROLS, ETC.
B.	CIRCUIT ALL EXIT SIGNS TO NEAREST UN-SWITCHED 277-VOLT EMERGENCY LIGHTING CIRCUIT (ON PANEL HEG OR HE3 AS APPLICABLE). EXIT SIGN POWER CONNECTIONS SHALL BE CONNECTED AHEAD OF ALL SWITCH LEGS AND CONTROLS.

KEY VALUE	KEYNOTE TEXT
1	96W REMOTE DRIVER SHALL BE LOCATED WITHIN LANDSCAPING IN THIS AREA. REFER TO "EL" SERIES DRAWINGS FOR MORE INFORMATION ON ACCEPTABLE MOUNTING LOCATIONS, QUANTITIES, FIXTURE ZONE CONTROL, REQUIRED NEMA RATINGS, ETC.



E0.11	1" = 30'-0"
-------	-------------

[illegible]

PROJECT NUMBER	20019
ISSUE DATE	03/15/2024

## The Amble

ISSUE

**IFC SET**

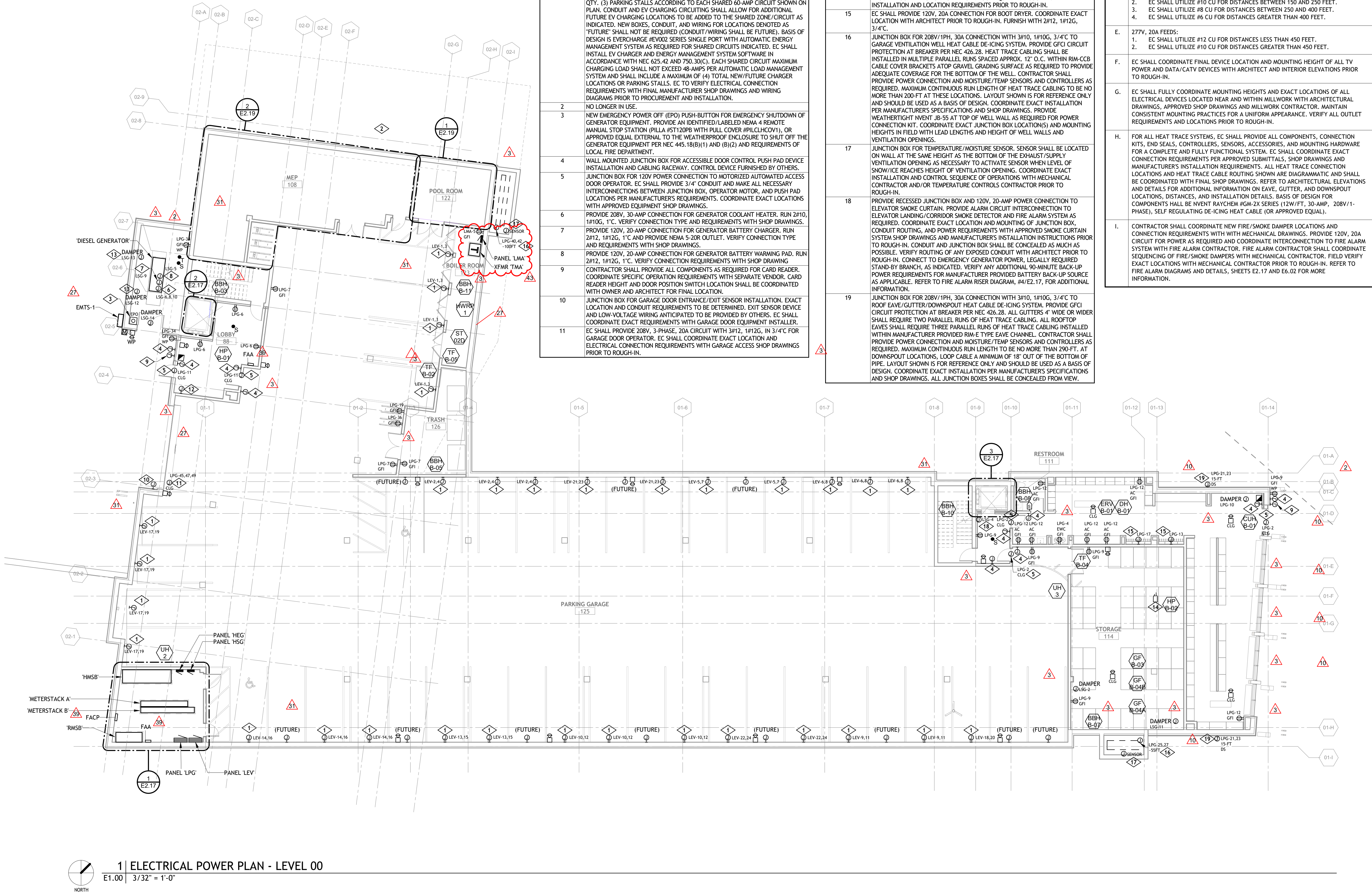
SHEET TITLE

## ELECTRICAL LIGHTING CIRCUITING SITE PLAN

SHEET NO. \_\_\_\_\_

## EO.11





1 ELECTRICAL POWER PLAN - LEVEL 00  
E1.00 | 3/32" = 1'-0"

## KEYNOTE LEGEND

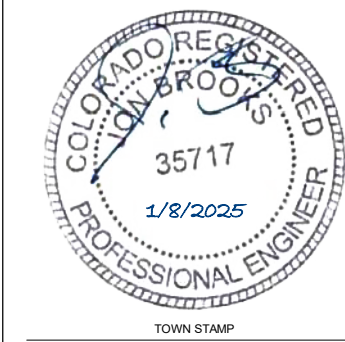
KEY VALUE	KEYNOTE TEXT
1	WALL MOUNTED SINGLE PORT ELECTRIC VEHICLE CHARGING STATION, LEVEL 2, 208V/1PH/48A WITH SINGLE SHARED 60A/2P CIRCUIT. FIELD VERIFY FINAL INDICATES THE INSTALLED EV CHARGER LOCATION AND TERMINATION OF CIRCUIT WIRING. CONDUIT FOR EACH CIRCUIT SHALL BE STUBBED UP AT PERIMETER WALLS BETWEEN PARKING STALLS (LOCATED AT COLUMNS) TO AVOID VERTICAL CONDUIT ROUTING WITHIN PARKING STALLS. PROVIDE (1) SHARED 60-AMP BRANCH CIRCUIT WITH 2#4, 1#10G IN A SINGLE 1-1/2" C TO EACH ZONE OF CHARGING STATIONS AS SHOWN. EACH TYPICAL EV CHARGING ZONE SHALL CONSIST OF EITHER QTY. (4) OR QTY. (3) PARKING STALLS ACCORDING TO EACH SHARED 60-AMP CIRCUIT SHOWN ON PLAN. CONDUIT AND EV CHARGING CIRCUITING SHALL ALLOW FOR ADDITIONAL FUTURE EV CHARGING LOCATIONS TO BE ADDED TO THE SHARED ZONE/CIRCUIT AS INDICATED. NEW BOXES, CONDUIT, AND WIRING FOR LOCATIONS DENOTED AS "FUTURE" SHALL NOT BE REQUIRED (CONDUIT/WIRING SHALL BE FUTURE). BASIS OF DESIGN IS EVERCHARGE #EV002 SERIES SINGLE PORT WITH AUTOMATIC ENERGY MANAGEMENT SYSTEM AS REQUIRED FOR SHARED CIRCUITS INDICATED. EC SHALL INSTALL EV CHARGER AND ENERGY MANAGEMENT SYSTEM SOFTWARE IN ACCORDANCE WITH NEC 625.42 AND 750.30(C). EACH SHARED CIRCUIT MAXIMUM CHARGING LOAD SHALL NOT EXCEED 48-AMPS PER AUTOMATIC LOAD MANAGEMENT SYSTEM AND SHALL INCLUDE A MAXIMUM OF (4) TOTAL NEW/FUTURE CHARGER LOCATIONS OR PARKING STALLS. EC TO VERIFY ELECTRICAL CONNECTION REQUIREMENTS WITH FINAL MANUFACTURER SHOP DRAWINGS AND WIRING DIAGRAMS PRIOR TO PROCUREMENT AND INSTALLATION.
2	NO LONGER IN USE.
3	NEW EMERGENCY POWER OFF (EPO) PUSH-BUTTON FOR EMERGENCY SHUTDOWN OF GENERATOR EQUIPMENT. PROVIDE AN IDENTIFIED/LABELED NEMA 4 REMOTE MANUAL STOP STATION (PULLA #ST120PB WITH PULL COVER #PULLC40V1), OR APPROVED EQUAL EXTERNAL TO THE WEATHERPROOF ENCLOSURE TO SHUT OFF THE GENERATOR EQUIPMENT PER NEC 445.18(B)(1) AND (B)(2) AND REQUIREMENTS OF LOCAL FIRE DEPARTMENT.
4	WALL MOUNTED JUNCTION BOX FOR ACCESSIBLE DOOR CONTROL PUSH PAD DEVICE INSTALLATION AND CABLING RACEWAY. CONTROL DEVICE FURNISHED BY OTHERS.
5	JUNCTION BOX FOR 120V POWER CONNECTION TO MOTORIZED AUTOMATED ACCESS DOOR OPERATOR. EC SHALL PROVIDE 3/4" CONDUIT AND MAKE ALL NECESSARY INTERCONNECTIONS BETWEEN JUNCTION BOX, OPERATOR MOTOR, AND PUSH PAD LOCATIONS PER MANUFACTURER REQUIREMENTS. COORDINATE EXACT LOCATIONS WITH APPROVED EQUIPMENT SHOP DRAWINGS.
6	PROVIDE 208V, 30-AMP CONNECTION FOR GENERATOR COOLANT HEATER. RUN 2#10, 1#10G, 1" C. VERIFY CONNECTION TYPE AND REQUIREMENTS WITH SHOP DRAWINGS.
7	PROVIDE 120V, 20-AMP CONNECTION FOR GENERATOR BATTERY CHARGER. RUN 2#12, 1#12G, 1" C AND PROVIDE NEMA 5-20R OUTLET. VERIFY CONNECTION TYPE AND REQUIREMENTS WITH SHOP DRAWINGS.
8	PROVIDE 120V, 20-AMP CONNECTION FOR GENERATOR BATTERY WARMING PAD. RUN 2#12, 1#12G, 1" C. VERIFY CONNECTION REQUIREMENTS WITH SHOP DRAWING
9	CONTRACTOR SHALL PROVIDE ALL COMPONENTS AS REQUIRED FOR CARD READER. COORDINATE SPECIFIC OPERATION REQUIREMENTS WITH SEPARATE VENDOR. CARD READER HEIGHT AND DOOR POSITION SWITCH LOCATION SHALL BE COORDINATED WITH OWNER AND ARCHITECT FOR FINAL LOCATION.
10	JUNCTION BOX FOR GARAGE DOOR ENTRANCE/EXIT SENSOR INSTALLATION. EXACT LOCATION AND CONDUIT REQUIREMENTS TO BE DETERMINED. EXIT SENSOR DEVICE AND LOW-VOLTAGE WIRING ANTICIPATED TO BE PROVIDED BY OTHERS. EC SHALL COORDINATE EXACT REQUIREMENTS WITH GARAGE DOOR EQUIPMENT INSTALLER.
11	EC SHALL PROVIDE 208V, 3-PHASE, 20A CIRCUIT WITH 3#12, 1#12G, IN 3/4" C FOR GARAGE DOOR OPERATOR. EC SHALL COORDINATE EXACT LOCATION AND ELECTRICAL CONNECTION REQUIREMENTS WITH GARAGE ACCESS SHOP DRAWINGS PRIOR TO ROUGH-IN.

## KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
12	PROVIDE LOCKABLE 30A/1P SAFETY SWITCH FOR 20A DEDICATED CIRCUIT FOR ELEVATOR VISUAL COMMUNICATION SYSTEM. EXACT LOCATIONS SHALL BE COORDINATED IN-FIELD PRIOR TO ROUGH-IN. CONTRACTOR SHALL COORDINATE EXACT LOCATION AND INSTALLATION REQUIREMENTS WITH ELEVATOR SHOP DRAWINGS PRIOR TO COMMENCING WORK.
13	PROVIDE 120V, 20-AMP CONNECTION TO MOTORIZED LOUVER IN GENERATOR ENCLOSURE. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. CONNECT TO STAND-BY POWER CIRCUIT AS INDICATED.
14	PROVIDE DUCT DETECTION FOR RETURN DUCT EQUIPMENT. COORDINATE INSTALLATION AND LOCATION REQUIREMENTS PRIOR TO ROUGH-IN.
15	EC SHALL PROVIDE 120V, 20A CONNECTION FOR BOOT DRYER. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. FURNISH WITH 2#12, 1#12G, 3/4" C.
16	JUNCTION BOX FOR 208V/1PH, 30A CONNECTION WITH 3#10, 1#10G, 3/4" C TO GARAGE VENTILATION WELL HEAT CABLE DE-ICING SYSTEM. PROVIDE GFCI CIRCUIT PROTECTION AT BREAKER PER NEC 426.28. HEAT TRACE CABLING SHALL BE INSTALLED IN MULTIPLE PARALLEL RUNS SPACED APPROX. 12" O.C. WITHIN RIM-CCB CABLE COVER BRACKETS ATOP GRAVEL GRADING SURFACE AS REQUIRED TO PROVIDE ADEQUATE COVERAGE FOR THE BOTTOM OF THE WELL. CONTRACTOR SHALL PROVIDE POWER CONNECTION AND MOISTURE/TEMP SENSORS AND CONTROLLERS AS REQUIRED. MAXIMUM CONTINUOUS RUN LENGTH OF HEAT TRACE CABLING TO BE NO MORE THAN 200-FT AT THESE LOCATIONS. LAYOUT SHOWN IS FOR REFERENCE ONLY AND SHOULD BE USED AS A BASIS OF DESIGN. COORDINATE EXACT INSTALLATION PER MANUFACTURER'S SPECIFICATIONS AND SHOP DRAWINGS. PROVIDE WEATHERTIGHT NVENT JB-55 AT TOP OF WELL WALL AS REQUIRED FOR POWER CONNECTION KIT. COORDINATE EXACT JUNCTION BOX LOCATION(S) AND MOUNTING HEIGHTS IN FIELD WITH LEAD LENGTHS AND HEIGHT OF WELL WALLS AND VENTILATION OPENINGS.
17	JUNCTION BOX FOR TEMPERATURE/MOISTURE SENSOR. SENSOR SHALL BE LOCATED ON WALL AT THE SAME HEIGHT AS THE BOTTOM OF THE EXHAUST/SUPPLY VENTILATION OPENING AS NECESSARY TO ACTIVATE SENSOR WHEN LEVEL OF SNOW/ICE REACHES HEIGHT OF VENTILATION OPENING. COORDINATE EXACT INSTALLATION AND CONTROL SEQUENCE OF OPERATIONS WITH MECHANICAL CONTRACTOR AND/OR TEMPERATURE CONTROLS CONTRACTOR PRIOR TO ROUGH-IN.
18	PROVIDE RECESSED JUNCTION BOX AND 120V, 20-AMP POWER CONNECTION TO ELEVATOR SMOKE CURTAIN. PROVIDE ALARM CIRCUIT INTERCONNECTION TO ELEVATOR LANDING/CORRIDOR SMOKE DETECTOR AND FIRE ALARM SYSTEM AS REQUIRED. COORDINATE EXACT LOCATION AND MOUNTING OF JUNCTION BOX, CONDUIT ROUTING, AND POWER REQUIREMENTS WITH APPROVED SMOKE CURTAIN SYSTEM SHOP DRAWINGS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO ROUGH-IN. CONDUIT AND JUNCTION BOX SHALL BE CONCEALED AS MUCH AS POSSIBLE. VERIFY ROUTING OF ANY EXPOSED CONDUIT WITH ARCHITECT PRIOR TO ROUGH-IN. CONNECT TO EMERGENCY GENERATOR POWER, LEGALLY REQUIRED STAND-BY BRANCH, AS INDICATED. VERIFY ANY ADDITIONAL 90-MINUTE BACK-UP POWER REQUIREMENTS FOR MANUFACTURER PROVIDED BATTERY BACK-UP SOURCE AS APPLICABLE. REFER TO FIRE ALARM RISER DIAGRAM, #4/E2.17, FOR ADDITIONAL INFORMATION.
19	JUNCTION BOX FOR 208V/1PH, 30A CONNECTION WITH 3#10, 1#10G, 3/4" C TO ROOF EAVE/GUTTER/DOWNSPOUT HEAT CABLE DE-ICING SYSTEM. PROVIDE GFCI CIRCUIT PROTECTION AT BREAKER PER NEC 426.28. ALL GUTTERS 4" WIDE OR WIDER SHALL REQUIRE TWO PARALLEL RUNS OF HEAT TRACE CABLING. ALL ROOFTOP EAVES SHALL REQUIRE THREE PARALLEL RUNS OF HEAT TRACE CABLING INSTALLED WITHIN MANUFACTURER PROVIDED RIM-E TYPE EAVE CHANNEL. CONTRACTOR SHALL PROVIDE POWER CONNECTION AND MOISTURE/TEMP SENSORS AND CONTROLLERS AS REQUIRED. MAXIMUM CONTINUOUS RUN LENGTH TO BE NO MORE THAN 250-FT. AT DOWNSPOUT LOCATIONS, LOOP CABLE A MINIMUM OF 18" OUT OF THE BOTTOM OF PIPE. LAYOUT SHOWN IS FOR REFERENCE ONLY AND SHOULD BE USED AS A BASIS OF DESIGN. COORDINATE EXACT INSTALLATION PER MANUFACTURER'S SPECIFICATIONS AND SHOP DRAWINGS. ALL JUNCTION BOXES SHALL BE CONCEALED FROM VIEW.

## POWER GENERAL NOTES

A.	ALL DEVICES IN COMMON SPACES, SHALL BE TAMPER RESISTANT PER NEC 406.12.
B.	ALL BRANCH CIRCUITRY SUPPLYING OUTLETS IN AREAS SPECIFIED IN NEC 210.8 SHALL BE ARC-FAULT CIRCUIT INTERRUPTER PROTECTED AND OUTDOOR RATED AS REQUIRED.
C.	EC SHALL ENSURE ALL OUTLETS IN AREAS SPECIFIED IN NEC 210.63 SHALL BE WEATHERPROOF AND ARC-FAULT CIRCUIT INTERRUPTER PROTECTED AS REQUIRED.
D.	120V, 20A FEEDS: 1. EC SHALL UTILIZE #12 CU FOR DISTANCES LESS THAN 150 FEET. 2. EC SHALL UTILIZE #10 CU FOR DISTANCES BETWEEN 150 AND 250 FEET. 3. EC SHALL UTILIZE #8 CU FOR DISTANCES BETWEEN 250 AND 400 FEET. 4. EC SHALL UTILIZE #6 CU FOR DISTANCES GREATER THAN 400 FEET.
E.	277V, 20A FEEDS: 1. EC SHALL UTILIZE #12 CU FOR DISTANCES LESS THAN 450 FEET. 2. EC SHALL UTILIZE #10 CU FOR DISTANCES GREATER THAN 450 FEET.
F.	EC SHALL COORDINATE FINAL DEVICE LOCATION AND MOUNTING HEIGHT OF ALL TV POWER AND DATA/CATV DEVICES WITH ARCHITECT AND INTERIOR ELEVATIONS PRIOR TO ROUGH-IN.
G.	EC SHALL FULLY COORDINATE MOUNTING HEIGHTS AND EXACT LOCATIONS OF ALL ELECTRICAL DEVICES LOCATED NEAR AND WITHIN MILLWORK WITH ARCHITECTURAL DRAWINGS, APPROVED SHOP DRAWINGS AND MILLWORK CONTRACTOR. MAINTAIN CONSISTENT MOUNTING PRACTICES FOR A UNIFORM APPEARANCE. VERIFY ALL OUTLET REQUIREMENTS AND LOCATIONS PRIOR TO ROUGH-IN.
H.	FOR ALL HEAT TRACE SYSTEMS, EC SHALL PROVIDE ALL COMPONENTS, CONNECTION KITS, END SEALS, CONTROLLERS, SENSORS, ACCESSORIES, AND MOUNTING HARDWARE FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM. EC SHALL COORDINATE EXACT CONNECTION REQUIREMENTS PER APPROVED SUBMITTALS, SHOP DRAWINGS AND MANUFACTURER'S INSTALLATION REQUIREMENTS. ALL HEAT TRACE CONNECTION LOCATIONS AND HEAT TRACE CABLE ROUTING SHOWN ARE DIAGRAMMATIC AND SHALL BE COORDINATED WITH FINAL SHOP DRAWINGS. REFER TO ARCHITECTURAL ELEVATIONS AND DETAILS FOR ADDITIONAL INFORMATION ON EAVE, GUTTER, AND DOWNSPOUT LOCATIONS, DISTANCES, AND INSTALLATION DETAILS. BASIS OF DESIGN FOR COMPONENTS SHALL BE NVENT RAYCHEM #GM-2X SERIES (12W/FT, 30-AMP, 208V/1-PHASE), SELF REGULATING DE-ICING HEAT CABLE (OR APPROVED EQUAL).
I.	CONTRACTOR SHALL COORDINATE NEW FIRE/SMOKE DAMPER LOCATIONS AND CONNECTION REQUIREMENTS WITH MECHANICAL DRAWINGS. PROVIDE 120V, 20A CIRCUIT FOR POWER AS REQUIRED AND COORDINATE INTERCONNECTION TO FIRE ALARM SYSTEM WITH FIRE ALARM CONTRACTOR. FIRE ALARM CONTRACTOR SHALL COORDINATE SEQUENCING OF FIRE/SMOKE DAMPERS WITH MECHANICAL CONTRACTOR. FIELD VERIFY EXACT LOCATIONS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. REFER TO FIRE ALARM DIAGRAMS AND DETAILS, SHEETS E2.17 AND E6.02 FOR MORE INFORMATION.



359  
DESIGN

3590 WAZEE STREET  
DENVER, CO 80202  
726.62.8877

**AE DESIGN**  
Integrated Lighting, Technology  
and Electrical Solutions  
1900 Wazee Street Suite #205  
Denver, CO 80202 303.296.3034  
aedesign-inc.com Proj #a219.00

3

**The Amble**  
Steamboat Springs, CO

No.	Description	Date
1	ISSUED FOR PERMIT	07/22/2024
2	PERMIT COMMENT	08/04/2024
3	ISSUED FOR PERMIT	08/04/2024
4	ISSUED FOR PERMIT	08/04/2024
5	ISSUED FOR PERMIT	08/04/2024
6	ISSUED FOR PERMIT	08/04/2024
7	ISSUED FOR PERMIT	08/04/2024
8	ISSUED FOR PERMIT	08/04/2024
9	ISSUED FOR PERMIT	08/04/2024
10	ISSUED FOR PERMIT	08/04/2024
11	ISSUED FOR PERMIT	08/04/2024
12	ISSUED FOR PERMIT	08/04/2024
13	ISSUED FOR PERMIT	08/04/2024
14	ISSUED FOR PERMIT	08/04/2024
15	ISSUED FOR PERMIT	08/04/2024
16	ISSUED FOR PERMIT	08/04/2024
17	ISSUED FOR PERMIT	08/04/2024
18	ISSUED FOR PERMIT	08/04/2024
19	ISSUED FOR PERMIT	08/04/2024
20	ISSUED FOR PERMIT	08/04/2024
21	ISSUED FOR PERMIT	08/04/2024
22	ISSUED FOR PERMIT	08/04/2024
23	ISSUED FOR PERMIT	08/04/2024
24	ISSUED FOR PERMIT	08/04/2024
25	ISSUED FOR PERMIT	08/04/2024
26	ISSUED FOR PERMIT	08/04/2024
27	ISSUED FOR PERMIT	08/04/2024
28	ISSUED FOR PERMIT	08/04/2024
29	ISSUED FOR PERMIT	08/04/2024
30	ISSUED FOR PERMIT	08/04/2024
31	ISSUED FOR PERMIT	08/04/2024
32	ISSUED FOR PERMIT	08/04/2024
33	ISSUED FOR PERMIT	08/04/2024
34	ISSUED FOR PERMIT	08/04/2024
35	ISSUED FOR PERMIT	08/04/2024
36	ISSUED FOR PERMIT	08/04/2024
37	ISSUED FOR PERMIT	08/04/2024
38	ISSUED FOR PERMIT	08/04/2024
39	ISSUED FOR PERMIT	08/04/2024
40	ISSUED FOR PERMIT	08/04/2024
41	ISSUED FOR PERMIT	08/04/2024
42	ISSUED FOR PERMIT	08/04/2024
43	ISSUED FOR PERMIT	08/04/2024
44	ISSUED FOR PERMIT	08/04/2024
45	ISSUED FOR PERMIT	08/04/2024
46	ISSUED FOR PERMIT	08/04/2024
47	ISSUED FOR PERMIT	08/04/2024
48	ISSUED FOR PERMIT	08/04/2024
49	ISSUED FOR PERMIT	08/04/2024
50	ISSUED FOR PERMIT	08/04/2024
51	ISSUED FOR PERMIT	08/04/2024
52	ISSUED FOR PERMIT	08/04/2024
53	ISSUED FOR PERMIT	08/04/2024
54	ISSUED FOR PERMIT	08/04/2024
55	ISSUED FOR PERMIT	08/04/2024
56	ISSUED FOR PERMIT	08/04/2024
57	ISSUED FOR PERMIT	08/04/2024
58	ISSUED FOR PERMIT	08/04/2024
59	ISSUED FOR PERMIT	08/04/2024
60	ISSUED FOR PERMIT	08/04/2024
61	ISSUED FOR PERMIT	08/04/2024
62	ISSUED FOR PERMIT	08/04/2024
63	ISSUED FOR PERMIT	08/04/2024
64	ISSUED FOR PERMIT	08/04/2024
65	ISSUED FOR PERMIT	08/04/2024
66	ISSUED FOR PERMIT	08/04/2024
67	ISSUED FOR PERMIT	08/04/2024
68	ISSUED FOR PERMIT	08/04/2024
69	ISSUED FOR PERMIT	08/04/2024
70	ISSUED FOR PERMIT	08/04/2024
71	ISSUED FOR PERMIT	08/04/2024
72	ISSUED FOR PERMIT	08/04/2024
73	ISSUED FOR PERMIT	08/04/2024
74	ISSUED FOR PERMIT	08/04/2024
75	ISSUED FOR PERMIT	08/04/2024
76	ISSUED FOR PERMIT	08/04/2024
77	ISSUED FOR PERMIT	08/04/2024
78	ISSUED FOR PERMIT	08/04/2024
79	ISSUED FOR PERMIT	08/04/2024
80	ISSUED FOR PERMIT	08/04/2024
81	ISSUED FOR PERMIT	08/04/2024
82	ISSUED FOR PERMIT	08/04/2024
83	ISSUED FOR PERMIT	08/04/2024
84	ISSUED FOR PERMIT	08/04/2024
85	ISSUED FOR PERMIT	08/04/2024
86	ISSUED FOR PERMIT	08/04/2024
87	ISSUED FOR PERMIT	08/04/2024
88	ISSUED FOR PERMIT	08/04/2024
89	ISSUED FOR PERMIT	08/04/2024
90	ISSUED FOR PERMIT	08/04/2024
91	ISSUED FOR PERMIT	08/04/2024
92	ISSUED FOR PERMIT	08/04/2024
93	ISSUED FOR PERMIT	08/04/2024
94	ISSUED FOR PERMIT	08/04/2024
95	ISSUED FOR PERMIT	08/04/2024
96	ISSUED FOR PERMIT	08/04/2024
97	ISSUED FOR PERMIT	08/04/2024
98	ISSUED FOR PERMIT	08/04/2024
99	ISSUED FOR PERMIT	08/04/2024
100	ISSUED FOR PERMIT	08/04/2024

PROJECT NUMBER: 20819  
ISSUE DATE: 03/19/2024

**The Amble**

IFC SET

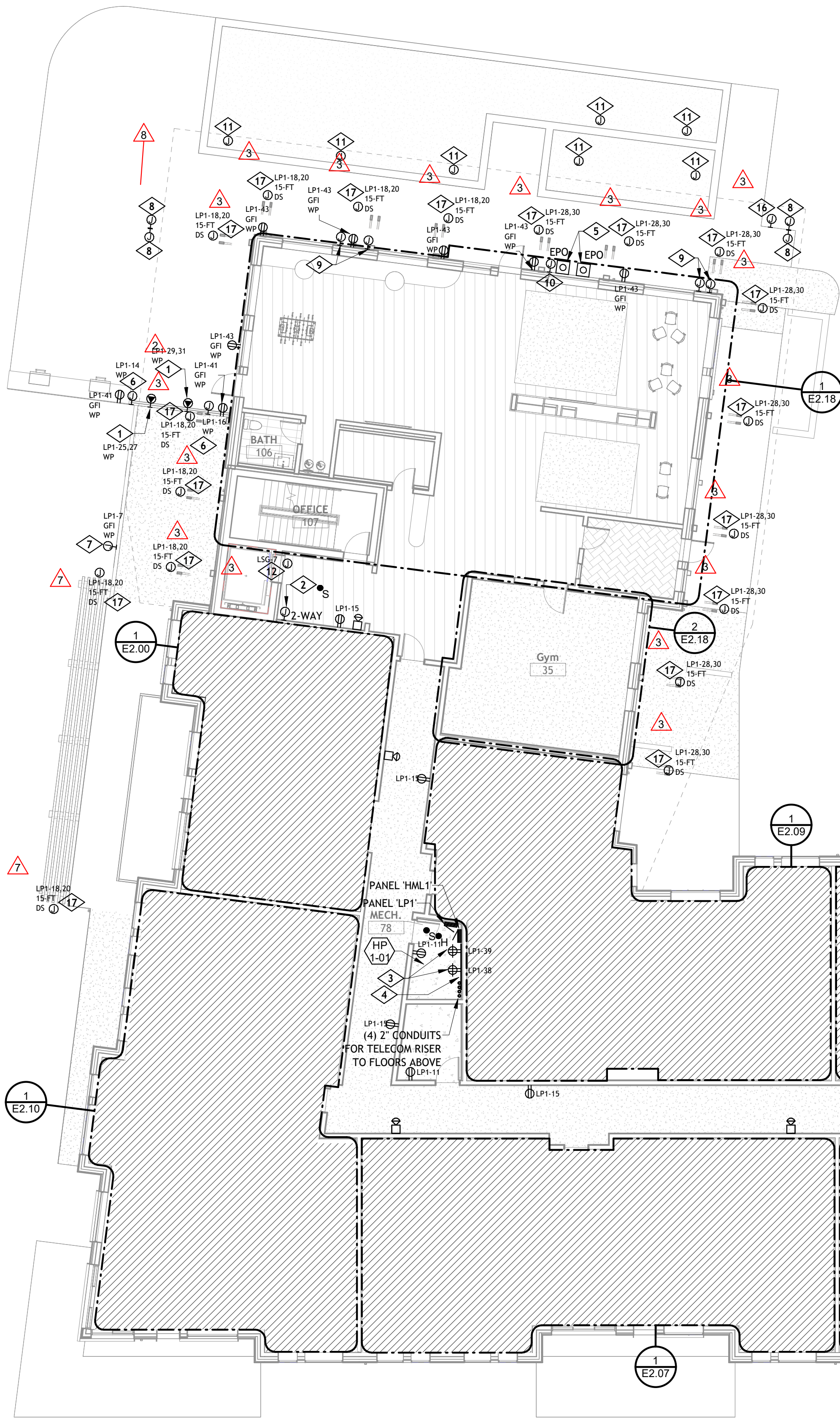
SHEET TITLE

**ELECTRICAL POWER  
PLAN - LEVEL 00**

SHEET NO.

**E1.00**

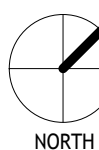




KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
1	PROVIDE NEMA 208V/1-PHASE 30-AMP ELECTRICAL CONNECTION (2#10, 1#10G, 3/4" C) AND NEMA 6-30R RECEPTACLE FOR 5,280-WATT ELECTRIC GRILL. POWER CONNECTION. COORDINATE EXACT RECEPTACLE LOCATION WITHIN ACCESS PANEL BELOW GRILL. WITH ARCHITECT PRIOR TO ROUGH-IN.
2	PROVIDE LOCKABLE 30A/1P SAFETY SWITCH FOR 20A DEDICATED CIRCUIT FOR ELEVATOR VISUAL COMMUNICATION SYSTEM. EXACT LOCATIONS SHALL BE COORDINATED IN-FIELD PRIOR TO ROUGH-IN. CONTRACTOR SHALL COORDINATE EXACT LOCATION AND INSTALLATION REQUIREMENTS WITH ELEVATOR SHOP DRAWINGS PRIOR TO COMMENCING WORK.
3	DEDICATED DUPLEX RECEPTACLE FOR IT EQUIPMENT POWER. CONFIRM FINAL LOCATION AND MOUNTING HEIGHT WITH OWNER'S IT CONSULTANT TO ROUGH-IN.
4	GC SHALL PROVIDE PLYWOOD BACKBOARD. BACKBOARD SHALL BE A MINIMUM OF 3/4" THICK, 8" HIGH, BY WIDTH OF WALLS, MOUNTED VERTICALLY, WITH THE BOTTOM OF THE BOARD MOUNTED 6" ABOVE FINISHED FLOOR WITH BEST SIDE TOWARD THE ROOM. PLYWOOD SHALL BE A/C GRADE AND FINISHED WITH TWO COATS OF FIRE-RETARDANT PAINT, AND PAINTED PRIOR TO INSTALLATION OF ANY EQUIPMENT. PLYWOOD SHALL BE PERMANENTLY FASTENED TO THE WALL BY MEANS OF WALL ANCHORS UTILIZING GALVANIZED, ZINC PLATED, OR STAINLESS-STEEL HARDWARE WITH A FLAT HEAD. FIELD COORDINATE EXACT PLYWOOD COVERAGE REQUIRED WITH OWNER'S IT REPRESENTATIVE PRIOR TO INSTALLATION.
5	EC SHALL COORDINATE EPO SWITCH FOR POOL WITH POOL CONTRACTOR AND ARCHITECT PRIOR TO ROUGH-IN. EPO SWITCH SHALL BE PROVIDED FOR THE SHUT DOWN OF PUMP ASSOCIATED WITH POOL/JACUZZI. (SEE POOL EQUIPMENT SCHEDULE SHEET E7.00). EPO SWITCH LOCATION AND INSTALLATION SHALL COMPLY WITH STATE HEALTH REGULATIONS AND NEC ARTICLE 680. CONFIRM ALL REQUIREMENTS PRIOR TO INSTALLATION. PROVIDE A PLASTIC ENCLOSURE FOR E-STOP TO PREVENT INADVERTENT ACTIVATION.
6	WEATHERPROOF JUNCTION BOX FOR 120V, 20A POWER CONNECTION FOR ELECTRIC GRILL. TIMER/EMERGENCY SHUT-OFF. COORDINATE EXACT INSTALLATION REQUIREMENTS WITH MANUFACTURER'S INSTRUCTIONS.
7	PROVIDE 120V, 20-AMP POWER CONNECTION FOR IRRIGATION CONTROLLER. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH IRRIGATION SYSTEM INSTALLER PRIOR TO ROUGH-IN. REFER TO LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION.
8	PROVIDE ELECTRICAL RACEWAY FOR POOL ENTRANCE GATE SECURITY CARD READERS. COORDINATE LOCATION AND INSTALLATION REQUIREMENTS PRIOR TO ROUGH-IN.

KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
9	WALL MOUNTED JUNCTION BOXES FOR WET-NICHE LIGHTING. COORDINATE EXACT LOCATIONS AND QUANTITIES WITH POOL AND SPA DESIGN DRAWINGS AND POOL CONTRACTOR. VERIFY JUNCTION BOX LOCATIONS AND MOUNTING WITH ARCHITECT PRIOR TO ROUGH-IN AS REQUIRED TO CONCEAL JUNCTION BOXES WHERE POSSIBLE.
10	POOL SPA JET TIMER. EC SHALL COORDINATE WITH POOL AND SPA DRAWINGS AND CONTRACTOR FOR CONDUIT AND JUNCTION BOX REQUIREMENTS. TIMER PROVIDED BY OTHERS.
11	TYPICAL LOCATION ON WET NICHE LIGHTING JUNCTION BOX WITHIN POOL SHOWN FOR REFERENCE. EC SHALL PROVIDE 1" (WATERTIGHT) FROM WALL MOUNTED JUNCTION BOXES FOR LOW-VOLTAGE POOL LIGHTING CABLING. LIGHTING FIXTURES AND 12-VOLT CABLING BY OTHERS/POOL CONTRACTOR. EC SHALL COORDINATE EXACT LOCATIONS AND ROUTING WITH POOL AND SPA DESIGN DRAWINGS AND POOL CONTRACTOR PRIOR TO ROUGH-IN.
12	PROVIDE RECESSED JUNCTION BOX AND 120V, 20-AMP POWER CONNECTION TO ELEVATOR SMOKE CURTAIN. PROVIDE ALARM CIRCUIT INTERCONNECTION TO ELEVATOR LANDING/CORRIDOR SMOKE DETECTOR AND FIRE ALARM SYSTEM AS REQUIRED. COORDINATE EXACT LOCATION AND MOUNTING OF JUNCTION BOX, CONDUIT ROUTING, AND POWER REQUIREMENTS WITH APPROVED SMOKE CURTAIN SYSTEM SHOP DRAWINGS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO ROUGH-IN. CONDUIT AND JUNCTION BOX SHALL BE CONCEALED AS MUCH AS POSSIBLE. VERIFY ROUTING OF ANY EXPOSED CONDUIT WITH ARCHITECT PRIOR TO ROUGH-IN. CONNECT TO EMERGENCY GENERATOR POWER. LEGALLY REQUIRED STAND-BY BRANCH, AS INDICATED. VERIFY ANY ADDITIONAL 90-MINUTE BACK-UP POWER REQUIREMENTS FOR MANUFACTURER PROVIDED BATTERY BACK-UP SOURCE AS APPLICABLE. REFER TO FIRE ALARM RISER DIAGRAM, #4/E2.17, FOR ADDITIONAL INFORMATION.
13	CONTRACTOR SHALL PROVIDE ALL COMPONENTS AS REQUIRED FOR CARD READER. COORDINATE SPECIFIC OPERATION REQUIREMENTS WITH SEPARATE VENDOR. CARD READER HEIGHT AND DOOR POSITION SWITCH LOCATION SHALL BE COORDINATED WITH OWNER AND ARCHITECT FOR FINAL LOCATION.
14	JUNCTION BOX FOR 120V POWER CONNECTION TO MOTORIZED AUTOMATED ACCESS DOOR OPERATOR. EC SHALL PROVIDE 3/4" CONDUIT AND MAKE ALL NECESSARY INTERCONNECTIONS BETWEEN JUNCTION BOX, OPERATOR MOTOR, AND PUSH PAD LOCATIONS PER MANUFACTURER'S REQUIREMENTS. COORDINATE EXACT LOCATIONS WITH APPROVED EQUIPMENT SHOP DRAWINGS.
15	WALL MOUNTED JUNCTION BOX FOR ACCESSIBLE DOOR CONTROL PUSH PAD DEVICE INSTALLATION AND CABLING RACEWAY. CONTROL DEVICE FURNISHED BY OTHERS.
16	WALL MOUNTED JUNCTION BOX FOR POOL EMERGENCY PHONE INSTALLATION AND CABLING RACEWAY. FURNISHED BY OTHERS. COORDINATE FINAL LOCATION AND CONNECTION REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGH-IN.
17	JUNCTION BOX FOR 208V/1PH, 30A CONNECTION WITH 3#10, 1#10G, 3/4" C TO ROOF EAVE/GUTTER/DOWNSPOUT HEAT CABLE DE-ICING SYSTEM. PROVIDE GFCI CIRCUIT PROTECTION AT BREAKER PER NEC 426.28. ALL GUTTERS 4" WIDE OR WIDER SHALL REQUIRE TWO PARALLEL RUNS OF HEAT TRACE CABLING. ALL ROOFSTOP EAVES SHALL REQUIRE THREE PARALLEL RUNS OF HEAT TRACE CABLING INSTALLED WITHIN MANUFACTURER PROVIDED RIM-E TYPE EAVE CHANNEL. CONTRACTOR SHALL PROVIDE POWER CONNECTION AND MOISTURE/TEMP SENSORS AND CONTROLLERS AS REQUIRED. MAXIMUM CONTINUOUS RUN LENGTH TO BE NO MORE THAN 290-FT. AT DOWNSPOUT LOCATIONS, LOOP CABLE A MINIMUM OF 18" OUT OF THE BOTTOM OF PIPE. LAYOUT SHOWN IS FOR REFERENCE ONLY AND SHOULD BE USED AS A BASIS OF DESIGN. COORDINATE EXACT INSTALLATION PER MANUFACTURER'S SPECIFICATIONS AND SHOP DRAWINGS. ALL JUNCTION BOXES SHALL BE CONCEALED FROM VIEW.
18	JUNCTION BOX FOR 208V/1PH, 30A CONNECTION WITH 3#10, 1#10G, 3/4" C TO AIR TO WATER HEAT PUMP HEAT TRACE. PROVIDE GFCI CIRCUIT PROTECTION AT BREAKER PER NEC 426.28. CONTRACTOR SHALL PROVIDE POWER CONNECTION AND MOISTURE/TEMP SENSORS AND CONTROLLERS AS REQUIRED. LAYOUT SHOWN IS FOR REFERENCE ONLY AND SHOULD BE USED AS A BASIS OF DESIGN. COORDINATE EXACT INSTALLATION PER MANUFACTURER'S SPECIFICATIONS AND SHOP DRAWINGS. ALL JUNCTION BOXES SHALL BE CONCEALED FROM VIEW.
19	JUNCTION BOX FOR 208V/1PH, 30A CONNECTION WITH 3#10, 1#10G, 3/4" C TO AIR TO WATER HEAT PUMP HEAT TRACE. PROVIDE GFCI CIRCUIT PROTECTION AT BREAKER PER NEC 426.28. CONTRACTOR SHALL PROVIDE POWER CONNECTION AND MOISTURE/TEMP SENSORS AND CONTROLLERS AS REQUIRED. LAYOUT SHOWN IS FOR REFERENCE ONLY AND SHOULD BE USED AS A BASIS OF DESIGN. COORDINATE EXACT INSTALLATION PER MANUFACTURER'S SPECIFICATIONS AND SHOP DRAWINGS. ALL JUNCTION BOXES SHALL BE CONCEALED FROM VIEW.

POWER GENERAL NOTES	
A.	ALL DEVICES IN COMMON SPACES, SHALL BE TAMPER RESISTANT PER NEC 406.12.
B.	ALL BRANCH CIRCUITRY SUPPLYING OUTLETS IN AREAS SPECIFIED IN NEC 210.8 SHALL BE ARC-FAULT CIRCUIT INTERRUPTER PROTECTED AND OUTDOOR RATED AS REQUIRED.
C.	EC SHALL ENSURE ALL OUTLETS IN AREAS SPECIFIED IN NEC 210.63 SHALL BE WEATHERPROOF AND ARC-FAULT CIRCUIT INTERRUPTER PROTECTED AS REQUIRED.
D.	120V, 20A FEEDS: 1. EC SHALL UTILIZE #12 CU FOR DISTANCES LESS THAN 150 FEET. 2. EC SHALL UTILIZE #10 CU FOR DISTANCES BETWEEN 150 AND 250 FEET. 3. EC SHALL UTILIZE #8 CU FOR DISTANCES BETWEEN 250 AND 400 FEET. 4. EC SHALL UTILIZE #6 CU FOR DISTANCES GREATER THAN 400 FEET.
E.	277V, 20A FEEDS: 1. EC SHALL UTILIZE #12 CU FOR DISTANCES LESS THAN 450 FEET. 2. EC SHALL UTILIZE #10 CU FOR DISTANCES GREATER THAN 450 FEET.
F.	EC SHALL COORDINATE FINAL DEVICE LOCATION AND MOUNTING HEIGHT OF ALL TV POWER AND DATA/CATV DEVICES WITH ARCHITECT AND INTERIOR ELEVATIONS PRIOR TO ROUGH-IN.
G.	EC SHALL FULLY COORDINATE MOUNTING HEIGHTS AND EXACT LOCATIONS OF ALL ELECTRICAL DEVICES LOCATED NEAR AND WITHIN MILLWORK WITH ARCHITECTURAL DRAWINGS, APPROVED SHOP DRAWINGS AND MILLWORK CONTRACTOR. MAINTAIN CONSISTENT MOUNTING PRACTICES FOR A UNIFORM APPEARANCE. VERIFY ALL OUTLET REQUIREMENTS AND LOCATIONS PRIOR TO ROUGH-IN.
H.	FOR ALL HEAT TRACE SYSTEMS, EC SHALL PROVIDE ALL COMPONENTS, CONNECTION KITS, END SEALS, CONTROLLERS, SENSORS, ACCESSORIES, AND MOUNTING HARDWARE FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM. EC SHALL COORDINATE EXACT CONNECTION REQUIREMENTS PER APPROVED SUBMITTALS, SHOP DRAWINGS AND MANUFACTURER'S INSTALLATION REQUIREMENTS. ALL HEAT TRACE CONNECTION LOCATIONS AND HEAT TRACE CABLE ROUTING SHOWN ARE DIAGRAMMATIC AND SHALL BE COORDINATED WITH FINAL SHOP DRAWINGS. REFER TO ARCHITECTURAL ELEVATIONS AND DETAILS FOR ADDITIONAL INFORMATION ON EAVE, GUTTER, AND DOWNSPOUT LOCATIONS, DISTANCES, AND INSTALLATION DETAILS. BASIS OF DESIGN FOR COMPONENTS SHALL BE INVENT RAYCHEM #GM-ZX SERIES (12W/FT, 30-AMP, 208V/1-PHASE), SELF REGULATING DE-ICING HEAT CABLE (OR APPROVED EQUAL).
I.	CONTRACTOR SHALL COORDINATE NEW FIRE/SMOKE DAMPER LOCATIONS AND CONNECTION REQUIREMENTS WITH MECHANICAL DRAWINGS. PROVIDE 120V, 20A CIRCUIT FOR POWER AS REQUIRED AND COORDINATE INTERCONNECTION TO FIRE ALARM SYSTEM WITH FIRE ALARM CONTRACTOR. FIRE ALARM CONTRACTOR SHALL COORDINATE SEQUENCING OF FIRE/SMOKE DAMPERS WITH MECHANICAL CONTRACTOR. FIELD VERIFY EXACT LOCATIONS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. REFER TO FIRE ALARM DIAGRAMS AND DETAILS, SHEETS E2.17 AND E6.02 FOR MORE INFORMATION.



359  
DESIGN

3630 OSCAR STREET  
DENVER, CO 80202  
726.62.5457



Integrated Lighting, Technology  
and Electrical Solutions  
1900 Wazee Street Suite #205  
Denver, CO 80202 303.296.3034  
aedesign-inc.com Proj #a219.00

The Amble  
Steamboat Springs, CO

REVISIONS		
No.	Description	Date
1	ISSUED FOR PERMITS	03/15/2024
2	ISSUED FOR PERMITS	03/15/2024
3	ISSUED FOR PERMITS	03/15/2024
4	ISSUED FOR PERMITS	03/15/2024
5	ISSUED FOR PERMITS	03/15/2024
6	ISSUED FOR PERMITS	03/15/2024
7	ISSUED FOR PERMITS	03/15/2024
8	ISSUED FOR PERMITS	03/15/2024
9	ISSUED FOR PERMITS	03/15/2024
10	ISSUED FOR PERMITS	03/15/2024
11	ISSUED FOR PERMITS	03/15/2024
12	ISSUED FOR PERMITS	03/15/2024
13	ISSUED FOR PERMITS	03/15/2024
14	ISSUED FOR PERMITS	03/15/2024
15	ISSUED FOR PERMITS	03/15/2024
16	ISSUED FOR PERMITS	03/15/2024
17	ISSUED FOR PERMITS	03/15/2024
18	ISSUED FOR PERMITS	03/15/2024
19	ISSUED FOR PERMITS	03/15/2024
20	ISSUED FOR PERMITS	03/15/2024
21	ISSUED FOR PERMITS	03/15/2024
22	ISSUED FOR PERMITS	03/15/2024
23	ISSUED FOR PERMITS	03/15/2024
24	ISSUED FOR PERMITS	03/15/2024
25	ISSUED FOR PERMITS	03/15/2024
26	ISSUED FOR PERMITS	03/15/2024
27	ISSUED FOR PERMITS	03/15/2024
28	ISSUED FOR PERMITS	03/15/2024
29	ISSUED FOR PERMITS	03/15/2024
30	ISSUED FOR PERMITS	03/15/2024

PROJECT NUMBER: 20819  
ISSUE DATE: 03/15/2024

The Amble

IFC SET

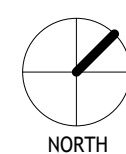
SHEET TITLE

ELECTRICAL POWER  
PLAN - LEVEL 01

SHEET NO.

E1.01

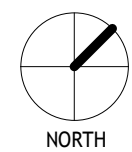












E1.04	$3/32'' = 1'-0''$
-------	-------------------

[illegible]







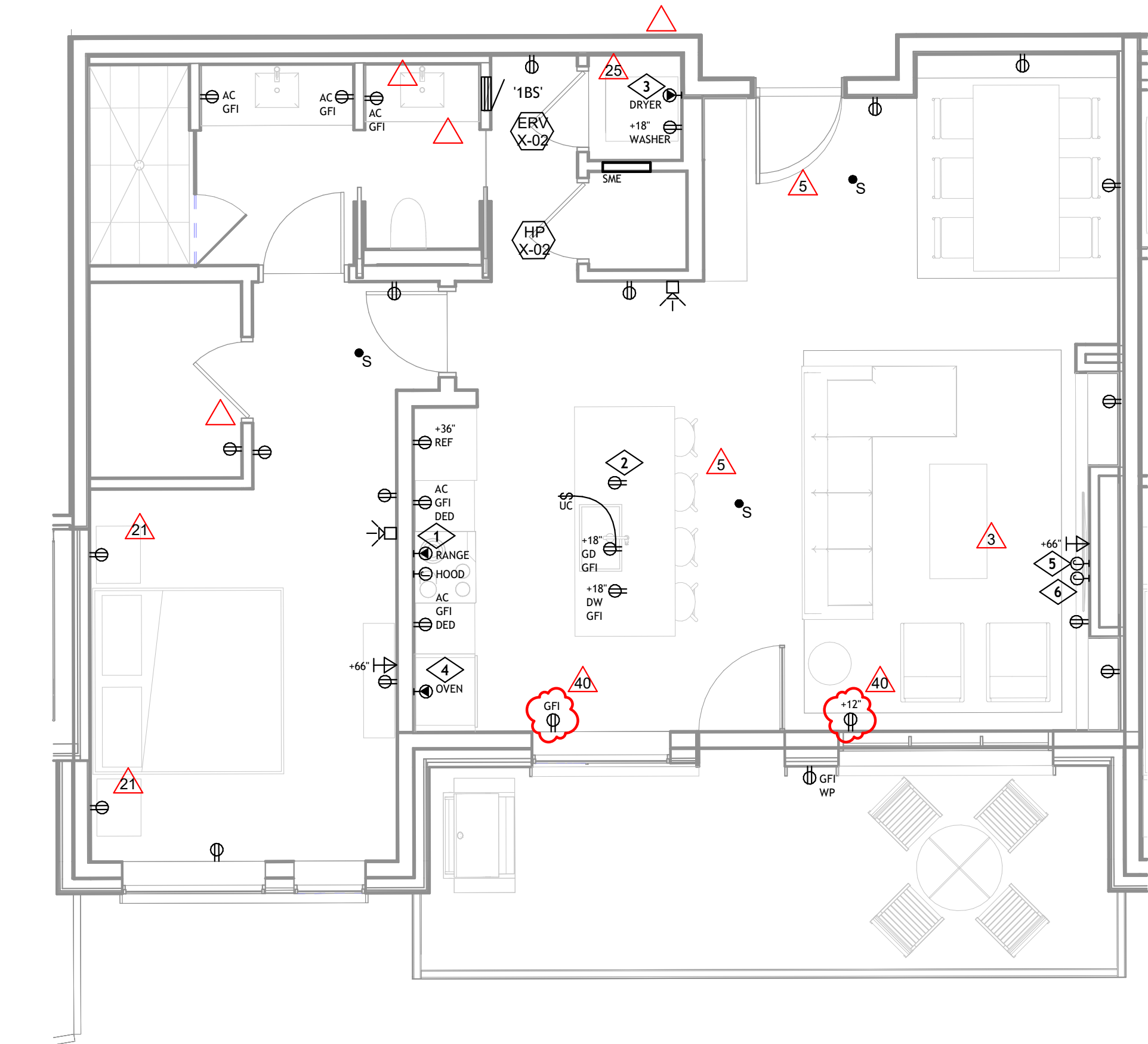


POWER GENERAL NOTES	
A.	ALL DEVICES IN COMMON SPACES, SHALL BE TAMPER RESISTANT PER NEC 406.12.
B.	ALL BRANCH CIRCUITRY SUPPLYING OUTLETS IN AREAS SPECIFIED IN NEC 210.8 SHALL BE ARC-FAULT CIRCUIT INTERRUPTER PROTECTED AND OUTDOOR RATED AS REQUIRED.
C.	EC SHALL ENSURE ALL OUTLETS IN AREAS SPECIFIED IN NEC 210.63 SHALL BE WEATHERPROOF AND ARC-FAULT CIRCUIT INTERRUPTER PROTECTED AS REQUIRED.
D.	120V, 20A FEEDS: 1. EC SHALL UTILIZE #12 CU FOR DISTANCES LESS THAN 150 FEET. 2. EC SHALL UTILIZE #10 CU FOR DISTANCES BETWEEN 150 AND 250 FEET. 3. EC SHALL UTILIZE #8 CU FOR DISTANCES BETWEEN 250 AND 400 FEET. 4. EC SHALL UTILIZE #6 CU FOR DISTANCES GREATER THAN 400 FEET.
E.	277V, 20A FEEDS: 1. EC SHALL UTILIZE #12 CU FOR DISTANCES LESS THAN 450 FEET. 2. EC SHALL UTILIZE #10 CU FOR DISTANCES GREATER THAN 450 FEET.
F.	EC SHALL COORDINATE FINAL DEVICE LOCATION AND MOUNTING HEIGHT OF ALL TV POWER AND DATA/CATV DEVICES WITH ARCHITECT AND INTERIOR ELECTRICALS PRIOR TO ROUGH-IN.
G.	EC SHALL FULLY COORDINATE MOUNTING HEIGHTS AND EXACT LOCATIONS OF ALL ELUCAL DEVICES LOCATED NEAR AND WITHIN MILLWORK WITH ARCHITECTURAL DRAWINGS, APPROVED SHOP DRAWINGS AND MILLWORK CONTRACTOR. MAINTAIN CONSISTENT MOUNTING PRACTICES FOR A UNIFORM APPEARANCE. VERIFY ALL OUTLET REQUIREMENTS AND LOCATIONS PRIOR TO ROUGH-IN.
H.	FOR ALL HEAT TRACE SYSTEMS, EC SHALL PROVIDE ALL COMPONENTS, CONNECTION KITS, END SEALS, CONTROLLERS, SENSORS, ACCESSORIES, AND MOUNTING HARDWARE FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM. EC SHALL COORDINATE EXACT CONNECTION REQUIREMENTS PER APPROVED SUBMITTALS, SHOP DRAWINGS AND MANUFACTURER'S INSTALLATION REQUIREMENTS. ALL HEAT TRACE CONNECTION LOCATIONS AND HEAT TRACE CABLE ROUTING SHOWN ARE DIAGRAMMATIC AND SHALL BE COORDINATED WITH FINAL SHOP DRAWINGS. REFER TO ARCHITECTURAL ELEVATIONS AND DETAILS FOR ADDITIONAL INFORMATION ON EAVE, GUTTER, AND DOWNSPOUT LOCATIONS, DISTANCES, AND INSTALLATION DETAILS. BASIS OF DESIGN FOR COMPONENTS SHALL BE NVENT RAYCHEM HGM-ZX SERIES (12W/FT, 30-AMP, 208V/1-PHASE), SELF REGULATING DE-ICING HEAT CABLE (OR APPROVED EQUAL).
I.	CONTRACTOR SHALL COORDINATE NEW FIRE/SMOKE DAMPER LOCATIONS AND CONNECTION REQUIREMENTS WITH MECHANICAL DRAWINGS. PROVIDE 120V, 20A CIRCUIT FOR POWER AS REQUIRED AND COORDINATE INTERCONNECTION TO FIRE ALARM SYSTEM WITH FIRE ALARM CONTRACTOR. FIRE ALARM CONTRACTOR SHALL COORDINATE SEQUENCING OF FIRE/SMOKE DAMPERS WITH MECHANICAL CONTRACTOR. FIELD VERIFY EXACT LOCATIONS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. REFER TO FIRE ALARM DIAGRAMS AND DETAILS, SHEETS E2.17 AND E6.02 FOR MORE INFORMATION.





KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
1	PROVIDE HARDWIRED CONNECTION FOR 208V/1-PHASE, 4-WIRE, 40-AMP CIRCUIT AND 3/8", 1/10G, 1" C TO RANGE. COORDINATE EXACT POWER CONNECTION REQUIREMENTS WITH FINAL EQUIPMENT SHOP DRAWINGS.
2	PROVIDE POP-UP STYLE IN-COUNTER TAMPER RESISTANT DUPLEX RECEPTACLE, UL LISTED FOR USE IN COUNTER TOPS, BASIS OF DESIGN: MCKET #PCS103B. CONNECT TO GFCI PROTECTED CIRCUIT AS REQUIRED. RECEPTACLE SHALL BE LOCATED AT BACK CABINET OF PULL-OUT TRASH COMPARTMENT. CONDUIT OR METAL-CLAD CABLE SHALL BE ROUTED TIGHT TO BACK OF CABINET SECTION AS REQUIRED TO ACCOMMODATE TRASH COMPARTMENT AND PROTECT WIRING. COORDINATE EXACT RECEPTACLE LOCATION IN COUNTER-TOP WITH ARCHITECT AND INTERIOR ELEVATIONS PRIOR TO ROUGH-IN.
3	EC SHALL PROVIDE NEMA 14-30R RECEPTACLE FED WITH 3/10, 1#10G, 3/4" C FOR 30A, 208V/1PH, 4-WIRE CORD AND PLUG DRYER POWER CONNECTION.
4	PROVIDE HARDWIRED CONNECTION FOR 208V/1-PHASE, 4-WIRE, 40-AMP CIRCUIT AND 3/8", 1/10G, 1" C TO DOUBLE OVEN. COORDINATE EXACT POWER CONNECTION REQUIREMENTS WITH FINAL EQUIPMENT SHOP DRAWINGS.
5	EC SHALL PROVIDE 120V, 20A CONNECTION FOR FIREPLACE. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGH-IN.
6	EC SHALL PROVIDE 120V, 20A CONNECTION FOR FIREPLACE FAN. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGH-IN.



1 | ELECTRICAL POWER UNIT PLAN - 1 BEDROOM STANDARD  
E2.00 1/4" = 1'-0"

UNIT FIRE ALARM NOTES:

- PER LOCAL FIRE DEPARTMENT/AHJ REQUIREMENTS, UNIT SMOKE DETECTORS SHALL BE CONNECTED TO THE BUILDING FIRE ALARM SYSTEM. UNIT SMOKE DETECTORS SHALL ACTIVATE LOCAL/UNIT ALARMS VIA INTEGRAL SOUNDER BASE. DETECTORS SHALL RECEIVE POWER FROM FIRE ALARM SIGNAL CABLEING/CONNECTIONS. SMOKE DETECTORS SHALL BE CAPABLE OF INITIATING NOTIFICATION BASED UPON BUILDING FIRE ALARM SYSTEM ACTIVATION AS REQUIRED BY AHJ. HARDWIRED 120V STANDALONE SINGLE-STATION OR MULTI-STATION SMOKE DETECTORS ARE NOT ANTICIPATED.
- COMBINATION HORN/STROBES, MINI-HORNS AND STROBES (NOT SHOWN ON THESE PLANS) SHALL BE INCLUDED IN DEFERRED FIRE ALARM SYSTEM SUBMITTAL, AND TO BE CONNECTED TO BUILDING FIRE ALARM SYSTEM. WHERE BUILDING-WIDE NOTIFICATION IS PROVIDED BY IN UNIT SMOKE DETECTORS WITH INTEGRAL SOUNDER BASE, ADDITIONAL MINI-HORN DEVICES ARE NOT ANTICIPATED TO BE REQUIRED.
- SMOKE ALARM DETECTORS SHALL BE PHOTOELECTRIC TYPE AND BE LOCATED A MINIMUM 3 FEET AWAY FROM ANY CEILING FAN BLADE EDGE, BATHROOM DOOR, AND/OR HVAC DIFFUSER, AND SHALL BE LOCATED A MINIMUM OF 6 FEET FROM THE KITCHEN RANGE.
- SMOKE ALARM DETECTORS SHALL BE INTERCONNECTED IN SUCH A MANNER THAT ACTIVATION OF ONE ALARM DEVICE WILL ACTIVATE ALL ALARMS THE DEVICES WITHIN THE INDIVIDUAL UNIT. PHYSICAL INTERCONNECTION OF SMOKE ALARMS SHALL NOT BE REQUIRED WHERE LISTED WIRELESS ALARMS ARE INSTALLED AND ALL ALARMS SOUND UPON ACTIVATION OF ONE ALARM. THE ALARM SHALL BE CLEARLY AUDIBLE IN ALL BEDROOMS OVER THE BACKGROUND NOISE LEVELS WITH ALL INTERVENING DOORS CLOSED.
- REFERENCE ARCHITECTURAL PLANS FOR UNITS DESIGNATED TO BE HANDICAP ACCESSIBLE FOR ADA. PROVIDE VISIBLE NOTIFICATION APPLIANCES IN DESIGNATED UNITS TO MEET REQUIREMENT OF IFC TABLE 907.5.2.3.2 VISIBLE ALARMS. STROBES IN ALL BATHROOMS AND BEDROOMS (NOT SHOWN ON THESE PLANS) SHALL BE INCLUDED IN DEFERRED FIRE ALARM SYSTEM SUBMITTAL, AND SHALL BE CONNECTED TO BUILDING FIRE ALARM SYSTEM.
- PER LOCAL FIRE DEPARTMENT/AHJ, DWELLING UNIT CARBON MONOXIDE DETECTION SHALL NOT BE REQUIRED PER INTERNATIONAL FIRE CODE, SECTION 915. DWELLING UNITS AND SPACES OUTSIDE OF DWELLING UNITS SHALL NOT CONTAIN FUEL BURNING APPLIANCES, FIREPLACES, OR FURNACES.

DWELLING UNIT GENERAL NOTES - TYPICAL

UNIT POWER AND LIGHTING NOTES:

- FIELD COORDINATE DEVICE LOCATIONS AND INTERCONNECTION CONDUIT REQUIREMENTS IN LOAD BEARING WALLS WITH ALL OTHER TRADES. PREFABRICATED OPENINGS IN WALL FRAMING ARE TO BE USED FOR HORIZONTAL CONNECTIONS BETWEEN DEVICES.
- BACK-TO-BACK OUTLETS IN COMMON WALL CAVITIES ARE NOT PERMITTED. OUTLET BOXES SHALL BE SEPARATED BY AT LEAST ONE STUD WHENEVER POSSIBLE. IN CASES OF OUTLET BOXES OF ADJACENT ROOMS IN SAME STUD CAVITY AT THE SAME HEIGHT, PROVIDE A LAYER OF EXPANDABLE SPRAY FOAM INSULATION AROUND EACH BOX IN THAT CAVITY. THERE MUST BE A MINIMUM OF A 1" HORIZONTAL SEPARATION SPACE BETWEEN BOXES OF ADJACENT ROOMS. IF THIS CONDITION OCCURS IN A FIRE RATED WALL, PROVIDE FIRE RATED PUTTY PADS TO COVER THE OUTLETS TO MAINTAIN FIRE RATED ASSEMBLY INTEGRITY.
- ALL BRANCH CIRCUITRY SUPPLYING OUTLETS IN AREAS SPECIFIED IN NEC 210.12(b) SHALL BE ARC-FAULT CIRCUIT INTERRUPTER (AFCI) PROTECTED. DESIGN INTENT IS TO PROVIDED PROTECTION AT THE CIRCUIT BREAKERS IN THE UNIT LOAD CENTER.
- IN ALL DWELLING UNIT AREAS SPECIFIED IN NEC 210.52, ALL 125-VOLT, 15 AND 20 AMPERE RECEPTACLES SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES PER NEC 406.12.
- REFERENCE ARCHITECTURAL PLANS FOR UNITS DESIGNATED TO BE ACCESSIBLE ANSI TYPE A. FOR RANGE HOOD CONTROLS, PROVIDE CONTROL SWITCHES FOR FAN AND LIGHT IN HOOD, LOCATE IN ACCESSIBLE LOCATION ABOVE COUNTER IN COMPLIANCE WITH ANSI A11.3-2003. DO NOT REWIRE THE INTERNAL WIRING OF THE HOOD. HOOD SHALL BE PROVIDED WITH REMOTE CONTROL CAPABILITY. COORDINATE WITH G.C. AND ARCHITECT.
- ELECTRICAL CONTRACTOR TO ADJUST RECEPTACLE LOCATIONS AND SPACING FOR ALTERNATE LAYOUTS AND SLIGHT DIFFERENCES IN TYPICAL UNIT TYPES DEPENDING ON UNIT LOCATION, ORIENTATION IN BUILDING AND FIELD FRAMING DIFFERENCES TO MEET THE SPACING REQUIREMENTS OF NEC 210.52.
- PROVIDE GROUND FAULT CIRCUIT INTERRUPTER (GFCI) PROTECTION PER NEC 210.8. DESIGN INTENT IS TO PROVIDE GFCI PROTECTION AT THE CIRCUIT BREAKER IN THE UNIT LOAD CENTER.
- OUTDOOR RECEPTACLES AT PATIO DECK SHALL BE DUPLEX, TAMPER-RESISTANT, WEATHER-RESISTANT, AND GFCI PROTECTED. RECEPTACLE COVERS SHALL BE CLEAR PLASTIC, WEATHERPROOF IN-USE TYPE.
- COORDINATE RECEPTACLES ABOVE COUNTERS IN BATHROOMS WITH MIRRORS AND ARCHITECTURAL ELEVATIONS. INSTALL ABOVE COUNTER RECEPTACLES HORIZONTALLY, ABOVE BACKSPLASH.
- COORDINATE RECEPTACLES ABOVE COUNTERS IN KITCHEN WITH SINKS, APPLIANCES AND ARCHITECTURAL ELEVATIONS. INSTALL ABOVE COUNTER RECEPTACLES HORIZONTALLY, ABOVE BACKSPLASH.
- COORDINATE EXACT LOCATIONS OF MECHANICAL AND PLUMBING EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN OF THE ASSOCIATED ELECTRICAL CONNECTION. PROVIDE DEDICATED ELECTRICAL CONNECTIONS TO ALL MECHANICAL AND PLUMBING EQUIPMENT UNLESS OTHERWISE INDICATED. REFER TO MECHANICAL EQUIPMENT SCHEDULE(S) ON SHEET E6.02 FOR ELECTRICAL CONNECTION INFORMATION.
- ALL CEILING JUNCTION BOXES FOR LIGHTS IN THE BEDROOMS AND LIVING ROOMS TO BE CEILING FAN RATED AND SHALL BE FIRE RATED AS REQUIRED TO MAINTAIN CEILING FIRE RATED ASSEMBLY REQUIREMENTS.
- ALL SWITCHED DUPLEX RECEPTACLES SHALL BE SPLIT SUCH THAT THE BOTTOM OF RECEPTACLE IS SWITCHED, AND THE TOP RECEPTACLE SHALL REMAIN HOT.
- KITCHEN ISLAND/PENINSULA RECEPTACLES: RECEPTACLES LOCATED IN KITCHEN ISLANDS OR PENINSULAS SHALL BE FLUSH MOUNT POP-UP TYPE MOUNTED IN COUNTER TOPS AND UL LISTED FOR COUNTER TOPS AS REQUIRED TO COMPLY WITH 2023 NEC. COORDINATE RECEPTACLE BOX DEPTH AND LOCATIONS WITH CASEWORK INSTALLER TO ENSURE BOXES DO NOT INTERFERE WITH DRAWERS OR APPLIANCES INSTALLED IN CASEWORK. CONDUIT RUN TO ISLAND SHALL BE INSTALLED IN FLOOR SLAB PRIOR TO CONCRETE POUR.
- RANGE: PROVIDE 50A, 208V RECEPTACLE (3/8" CU, 1#10 GND). COORDINATE EXACT NEMA CONFIGURATION WITH APPLIANCE PROVIDED.
- DISHWASHERS: LOCATE THE DISHWASHER RECEPTACLE WHERE ACCESSIBLE PER NEC 422.16(B)(2)(6) IN ADJACENT CABINET SPACE UNDER SINK.
- DRYERS: PROVIDE 30A, 208V RECEPTACLE (3/10, 1#10 GND). COORDINATE EXACT NEMA CONFIGURATION WITH APPLIANCE PROVIDED.
- STACKED WASHER/DRYER UNITS: REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR RECOMMENDED RECEPTACLE LOCATIONS AND MOUNTING HEIGHTS.
- USB RECEPTACLES IN KITCHEN: PROVIDE DUPLEX, TAMPER RESISTANT RECEPTACLE WITH TWO USB CHARGING PORTS.
- ALL UNIT LOAD CENTERS COVERS SHALL BE STEEL, FACTORY PRE-FINISHED WITH WHITE BAKED ENAMEL, READY FOR PAINTING IN THE FIELD. GENERAL CONTRACTOR TO FIELD PAINT LOAD CENTER COVERS TO MATCH WALLS, WITHOUT PAINTING COVERS SHUT. EC SHALL REFER TO DEVICE MOUNTING HEIGHT DIAGRAM, 1'E-000, FOR ADDITIONAL INFORMATION AND REQUIREMENTS FOR THE MOUNTING HEIGHT OF UNIT LOAD CENTERS AND STRUCTURED MEDIA ENCLOSURES IN 'ADA' ACCESSIBLE OR TYPE A ADAPTABLE UNITS. VERIFY FINAL LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.
- REFER TO ARCHITECTURAL SHEETS FOR DIMENSIONS ASSOCIATED WITH LIGHT FIXTURES PRIOR TO ROUGH-IN. REFER TO LIGHTING DESIGN DRAWINGS FOR LIGHTING FIXTURE LOCATIONS AND INSTALLATION REQUIREMENTS.
- PROVIDE LOW VOLTAGE COMMUNICATIONS BOX ("COMM. BOX"), 14"x42", FOR TELE/DATA/CATV CABLEING WITHIN UNIT. PANEL SHALL BE MOUNTED AT 18" AFF TO BOTTOM. PROVIDE TWO DUPLEX RECEPTACLES INSIDE BOX. COORDINATE EXACT LOCATION AND MOUNTING WITH LOW VOLTAGE CONTRACTOR PRIOR TO ROUGH-IN.
- FLOOR BOXES: PROVIDE 1-GANG FLUSH FLOOR BOXES WHERE INDICATED ON PLANS. BOXES SHALL BE FLUSH, NON-METALLIC TYPE, WITH DUPLEX 15A TAMPER RESISTANT RECEPTACLE, FLUSH IN COVER WITH SLIDER/HINGE COVER FOR ACCESS. BASIS OF DESIGN IS LEGRAND WIREMOLD EVOLUTION SERIES 4" FIRE-RATED POKE-THROUGH FLOOR BOX AND SURFACE SOLID FLOOR BOX COVER. EC SHALL PROVIDE FLOOR BOX COVERS FOR WOOD FLOORING FINISH APPLICATIONS. EC SHALL CONFIRM EXACT COVER TYPE SPECIFICATION WITH NEW FLOOR FINISH/MATERIALS AND VERIFY WITH ARCHITECT/OWNER PRIOR TO ORDERING. BOX AND POWER CONDUITS IN AND OUT OF BOX SHALL ALL BE INSTALLED IN FLOOR SLAB PRIOR TO CONCRETE POUR. CONTRACTOR SHALL PROVIDE ALL FLOOR BOX COMPONENTS AND ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION. FIELD COORDINATE FINAL LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. DO NOT DIMENSION OFF ELECTRICAL PLANS. FOR INSTALLATIONS THAT ARE NOTE ACCESSIBLE FROM CEILINGS BELOW, CONTRACTOR SHALL PROVIDE CONDUIT FITTINGS AND RACEWAY DIRECTLY FROM POKE-THROUGH CONDUITS UP THROUGH NEAREST WALL TO THE CORRESPONDING DWELLING UNIT SPACE OR LOAD CENTER FOR THE UNIT SERVED BY THE FLOOR RECEPTACLE. JUNCTION BOXES SHALL NOT BE PROVIDED WITHIN INACCESSIBLE LOCATIONS FOR CONNECTIONS TO POKE-THROUGH FLOOR BOXES.
- WHERE MULTIPLE DEVICES ARE LOCATED ADJACENT TO EACH OTHER, FOR EXAMPLE FAN SWITCHES AND LIGHT OR RECEPTACLE SWITCHES; PROVIDE MULTI-GANG BACK BOX WITH COMMON COVER PLATE.
- EC SHALL PROVIDE NEMA 6-15R TYPE RECEPTACLE FOR CONDENSATE PUMP AND CONNECT TO SAME CIRCUIT AS ASSOCIATED FCU. FIELD COORDINATE EXACT LOCATION AND INSTALLATION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- ALL RECEPTACLES IN KITCHEN ARE TO COMPLY WITH NEC 2023 SECTION 210.8(A)(6).
- ALL UNITS WITH ACCESSIBLE COMMUNICATIONS FEATURES SHALL BE PROVIDED WITH HARD-WIRED ELECTRIC DOORBELL SYSTEM AS REQUIRED PER ADA STANDARDS FOR ACCESSIBLE DESIGN, SECTION 809.5. EC SHALL CONFIRM EXACT QUANTITY OF UNITS AND LOCATIONS WHERE ACCESSIBLE COMMUNICATIONS FEATURES ARE REQUIRED WITH ARCHITECT PRIOR TO COMMENCING WORK.
- REFERENCE ARCHITECTURAL PLANS FOR UNITS DESIGNATED TO BE HANDICAP ACCESSIBLE OR ADAPTABLE (TYPE A, ETC.) PER ADA REQUIREMENTS. FOR RANGE HOOD CONTROLS, PROVIDE CONTROL SWITCHES FOR FAN AND LIGHT IN HOOD, LOCATE IN ACCESSIBLE LOCATION ABOVE COUNTER IN COMPLIANCE WITH ANSI A11.3-2003. DO NOT REWIRE THE INTERNAL WIRING OF THE HOOD. HOOD SHALL BE PROVIDED WITH REMOTE CONTROL CAPABILITY. COORDINATE WITH G.C. AND ARCHITECT.



359  
DESIGN

359 OSAGE STREET  
DENVER, CO 80202  
726.62.5457



1900 Wazee Street Suite #205  
Denver, CO 80202 303.296.3034  
aedesign-inc.com Proj #a219.00

The Amble  
Steamboat Springs, CO

No.	Description	Date
1	ISSUE SUBMITTAL	07/22/2024
2	PERMIT COMMENT	08/08/2024
3	RESPONSE	08/15/2024
4	RFI #10	04/12/2024
5	RFI #10	04/30/2024
6	RFI #10	07/29/2024
7	RFI #10	07/29/2024
8	RFI #10	07/29/2024
9	RFI #10	07/29/2024
10	RFI #10	07/29/2024
11	RFI #10	07/29/2024
12	RFI #10	07/29/2024
13	RFI #10	07/29/2024
14	RFI #10	07/29/2024
15	RFI #10	07/29/2024
16	RFI #10	07/29/2024
17	RFI #10	07/29/2024
18	RFI #10	07/29/2024
19	RFI #10	07/29/2024
20	RFI #10	07/29/2024
21	RFI #10	07/29/2024
22	RFI #10	07/29/2024
23	RFI #10	07/29/2024
24	RFI #10	07/29/2024
25	RFI #10	07/29/2024
26	RFI #10	07/29/2024
27	RFI #10	07/29/2024
28	RFI #10	07/29/2024
29	RFI #10	07/29/2024
30	RFI #10	07/29/2024
31	RFI #10	07/29/2024
32	RFI #10	07/29/2024
33	RFI #10	07/29/2024
34	RFI #10	07/29/2024
35	RFI #10	07/29/2024
36	RFI #10	07/29/2024
37	RFI #10	07/29/2024
38	RFI #10	07/29/2024
39	RFI #10	07/29/2024
40	RFI #10	07/29/2024
41	RFI #10	07/29/2024
42	RFI #10	07/29/2024
43	RFI #10	07/29/2024
44	RFI #10	07/29/2024
45	RFI #10	07/29/2024
46	RFI #10	07/29/2024
47	RFI #10	07/29/2024
48	RFI #10	07/29/2024
49	RFI #10	07/29/2024
50	RFI #10	07/29/2024
51	RFI #10	07/29/2024
52	RFI #10	07/29/2024
53	RFI #10	07/29/2024
54	RFI #10	07/29/2024
55	RFI #10	07/29/2024
56	RFI #10	07/29/2024
57	RFI #10	07/29/2024
58	RFI #10	07/29/2024
59	RFI #10	07/29/2024
60	RFI #10	07/29/2024
61	RFI #10	07/29/2024
62	RFI #10	07/29/2024
63	RFI #10	07/29/2024
64	RFI #10	07/29/2024
65	RFI #10	07/29/2024
66	RFI #10	07/29/2024
67	RFI #10	07/29/2024
68	RFI #10	07/29/2024
69	RFI #10	07/29/2024
70	RFI #10	07/29/2024
71	RFI #10	07/29/2024
72	RFI #10	07/29/2024
73	RFI #10	07/29/2024
74	RFI #10	07/29/2024
75	RFI #10	07/29/2024
76	RFI #10	07/29/2024
77	RFI #10	07/29/2024
78	RFI #10	07/29/2024
79	RFI #10	07/29/2024
80	RFI #10	07/29/2024
81	RFI #10	07/29/2024
82	RFI #10	07/29/2024
83	RFI #10	07/29/2024
84	RFI #10	07/29/2024
85	RFI #10	07/29/2024
86	RFI #10	07/29/2024
87	RFI #10	07/29/2024
88	RFI #10	07/29/2024
89	RFI #10	07/29/2024
90	RFI #10	07/29/2024
91	RFI #10	07/29/2024
92	RFI #10	07/29/2024
93	RFI #10	07/29/2024
94	RFI #10	07/29/2024
95	RFI #10	07/29/2024
96	RFI #10	07/29/2024
97	RFI #10	07/29/2024
98	RFI #10	07/29/2024
99	RFI #10	07/29/2024
100	RFI #10	07/29/2024

PROJECT NUMBER: 20819  
ISSUE DATE: 03/15/2024

The Amble

IFC SET

ELECTRICAL POWER  
UNIT PLAN - 1  
BEDROOM STANDARD

SHEET NO.

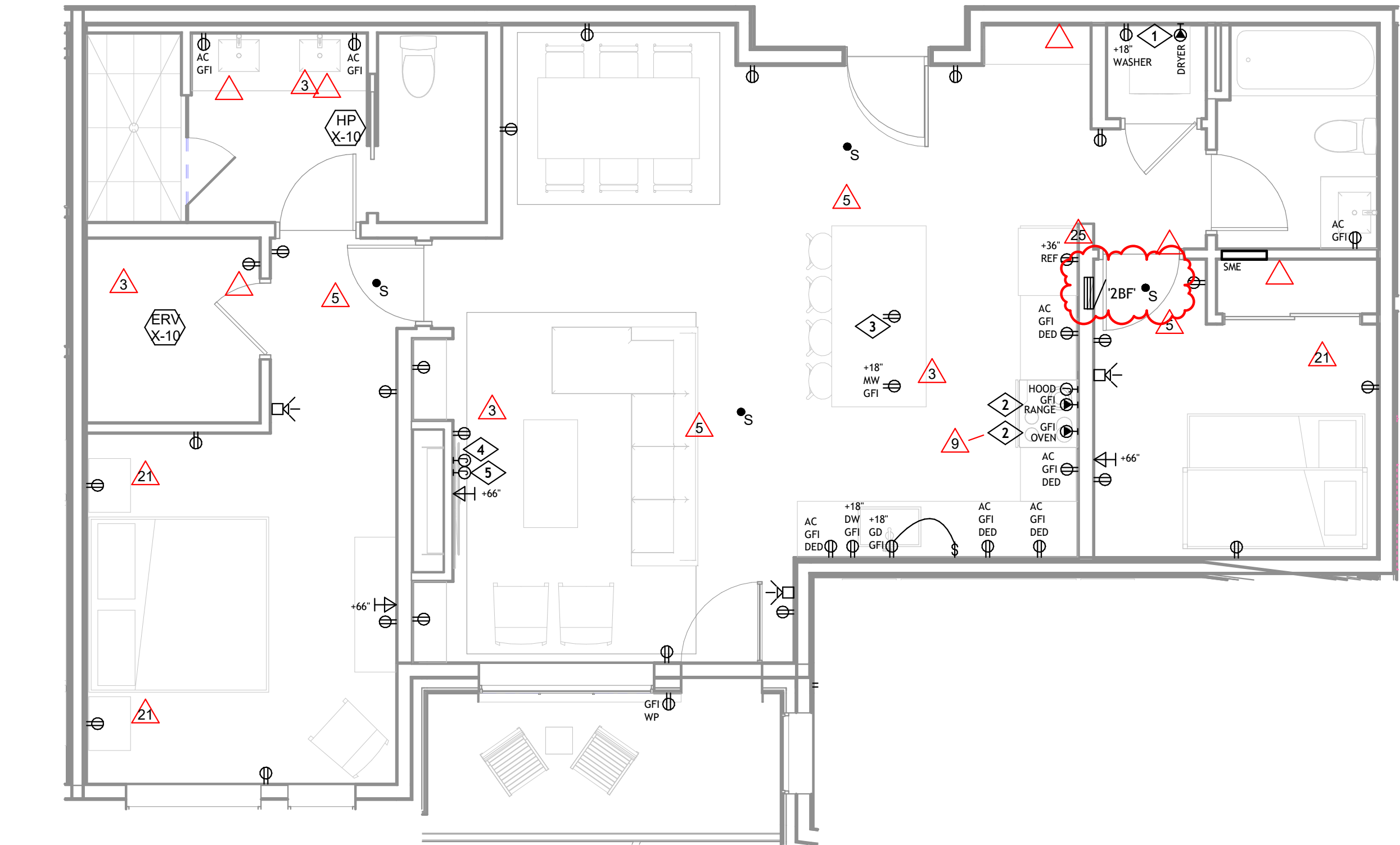
E2.00



DWELLING UNIT GENERAL NOTES

A.REFER TO DRAWING E2.00 FOR DWELLING UNIT GENERAL NOTES.

KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
1	EC SHALL PROVIDE NEMA 14-30R RECEPTACLE FED WITH 3#10, 1#10G, 3/4"C FOR 30A, 208V/1PH, 4-WIRE CORD AND PLUG DRYER POWER CONNECTION.
2	PROVIDE HARDWIRED CONNECTION FOR 208V/1-PHASE, 4-WIRE CIRCUIT AND 3#8, 1#10G, 1"C TO RANGE/OVEN. COORDINATE EXACT POWER CONNECTION REQUIREMENTS WITH FINAL EQUIPMENT SHOP DRAWINGS.
3	PROVIDE POP-UP STYLE IN-COUNTER TAMPER RESISTANT DUPLEX RECEPTACLE, UL LISTED FOR USE IN COUNTER TOPS. BASIS OF DESIGN: MOCKET HPS103B. CONNECT TO GFCI PROTECTED CIRCUIT AS REQUIRED. RECEPTACLE SHALL BE LOCATED AT BACK CABINET OF PULL-OUT TRASH COMPARTMENT. CONDUIT OR METAL-CLAD CABLE SHALL BE ROUTED TIGHT TO BACK OF CABINET SECTION AS REQUIRED TO ACCOMMODATE TRASH COMPARTMENT AND PROTECT WIRING. COORDINATE EXACT RECEPTACLE LOCATION IN COUNTER-TOP WITH ARCHITECT AND INTERIOR ELEVATIONS PRIOR TO ROUGH-IN.
4	EC SHALL PROVIDE 120V, 20A CONNECTION FOR FIREPLACE FAN. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGH-IN.
5	EC SHALL PROVIDE 120V, 20A CONNECTION FOR FIREPLACE. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGH-IN.



1ELECTRICAL POWER UNIT PLAN - 2 BEDROOM FLEX

E2.011/4" = 1'-0"



The Amble  
Steamboat Springs, CO

No.	Description	Date
1	ISSUED FOR PERMIT	01/22/2024
2	PERMIT COMMENT	02/08/2024
3	RESPONSE	
4	RFI #39	03/15/2024
5	RFI #39	04/10/2024
6	RFI #39	04/10/2024
7	RFI #39	04/10/2024
8	RFI #39	04/10/2024
9	RFI #39	04/10/2024
10	RFI #39	04/10/2024
11	RFI #39	04/10/2024
12	RFI #39	04/10/2024
13	RFI #39	04/10/2024
14	RFI #39	04/10/2024
15	RFI #39	04/10/2024
16	RFI #39	04/10/2024
17	RFI #39	04/10/2024
18	RFI #39	04/10/2024
19	RFI #39	04/10/2024
20	RFI #39	04/10/2024
21	RFI #39	04/10/2024
22	RFI #39	04/10/2024
23	RFI #39	04/10/2024
24	RFI #39	04/10/2024
25	RFI #39	04/10/2024
26	RFI #39	04/10/2024
27	RFI #39	04/10/2024
28	RFI #39	04/10/2024
29	RFI #39	04/10/2024
30	RFI #39	04/10/2024
31	RFI #39	04/10/2024
32	RFI #39	04/10/2024
33	RFI #39	04/10/2024
34	RFI #39	04/10/2024
35	RFI #39	04/10/2024
36	RFI #39	04/10/2024
37	RFI #39	04/10/2024
38	RFI #39	04/10/2024
39	RFI #39	04/10/2024
40	RFI #39	04/10/2024
41	RFI #39	04/10/2024
42	RFI #39	04/10/2024
43	RFI #39	04/10/2024
44	RFI #39	04/10/2024
45	RFI #39	04/10/2024
46	RFI #39	04/10/2024
47	RFI #39	04/10/2024
48	RFI #39	04/10/2024
49	RFI #39	04/10/2024
50	RFI #39	04/10/2024
51	RFI #39	04/10/2024
52	RFI #39	04/10/2024
53	RFI #39	04/10/2024
54	RFI #39	04/10/2024
55	RFI #39	04/10/2024
56	RFI #39	04/10/2024
57	RFI #39	04/10/2024
58	RFI #39	04/10/2024
59	RFI #39	04/10/2024
60	RFI #39	04/10/2024
61	RFI #39	04/10/2024
62	RFI #39	04/10/2024
63	RFI #39	04/10/2024
64	RFI #39	04/10/2024
65	RFI #39	04/10/2024
66	RFI #39	04/10/2024
67	RFI #39	04/10/2024
68	RFI #39	04/10/2024
69	RFI #39	04/10/2024
70	RFI #39	04/10/2024
71	RFI #39	04/10/2024
72	RFI #39	04/10/2024
73	RFI #39	04/10/2024
74	RFI #39	04/10/2024
75	RFI #39	04/10/2024
76	RFI #39	04/10/2024
77	RFI #39	04/10/2024
78	RFI #39	04/10/2024
79	RFI #39	04/10/2024
80	RFI #39	04/10/2024
81	RFI #39	04/10/2024
82	RFI #39	04/10/2024
83	RFI #39	04/10/2024
84	RFI #39	04/10/2024
85	RFI #39	04/10/2024
86	RFI #39	04/10/2024
87	RFI #39	04/10/2024
88	RFI #39	04/10/2024
89	RFI #39	04/10/2024
90	RFI #39	04/10/2024
91	RFI #39	04/10/2024
92	RFI #39	04/10/2024
93	RFI #39	04/10/2024
94	RFI #39	04/10/2024
95	RFI #39	04/10/2024
96	RFI #39	04/10/2024
97	RFI #39	04/10/2024
98	RFI #39	04/10/2024
99	RFI #39	04/10/2024
100	RFI #39	04/10/2024

PROJECT NUMBER: 20013  
ISSUE DATE: 03/19/2024

The Amble

ISSUE

IFC SET

SHEET TITLE

ELECTRICAL POWER  
UNIT PLAN - 2  
BEDROOM FLEX

SHEET NO.

E2.01





TOWN STAMP

359  
DESIGN

303 OSAGE STREET  
DENVER, CO 80202  
720.612.5457

**AE DESIGN**  
Integrated Lighting, Technology  
and Electrical Solutions  
1900 Wazee Street Suite #205  
Denver, CO 80202 303.296.3034  
aedesign-inc.com Proj #a219.00

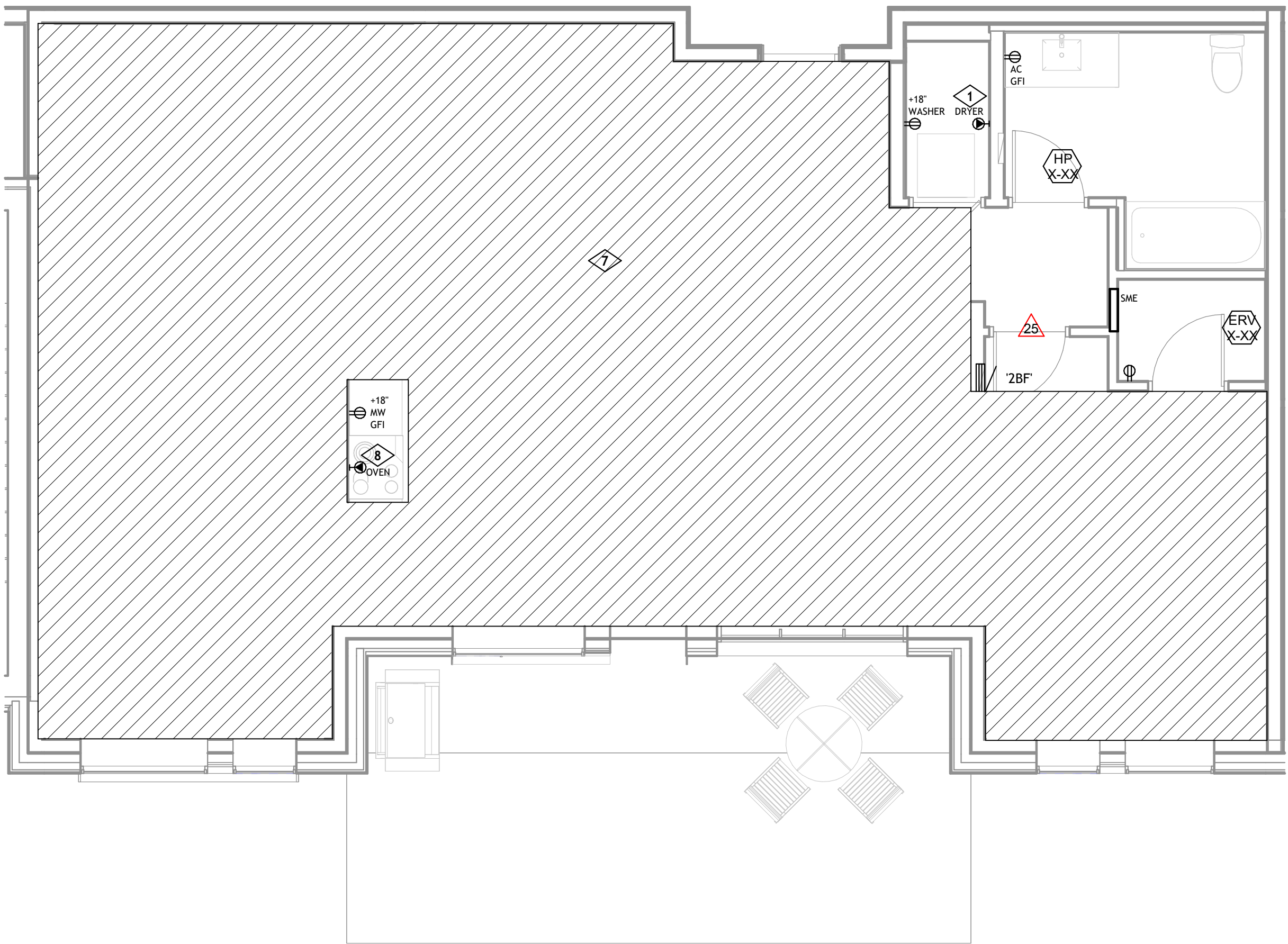
**The Amble**  
Steamboat Springs, CO

## DWELLING UNIT GENERAL NOTES

A. REFER TO DRAWING E2.00 FOR DWELLING UNIT GENERAL NOTES.

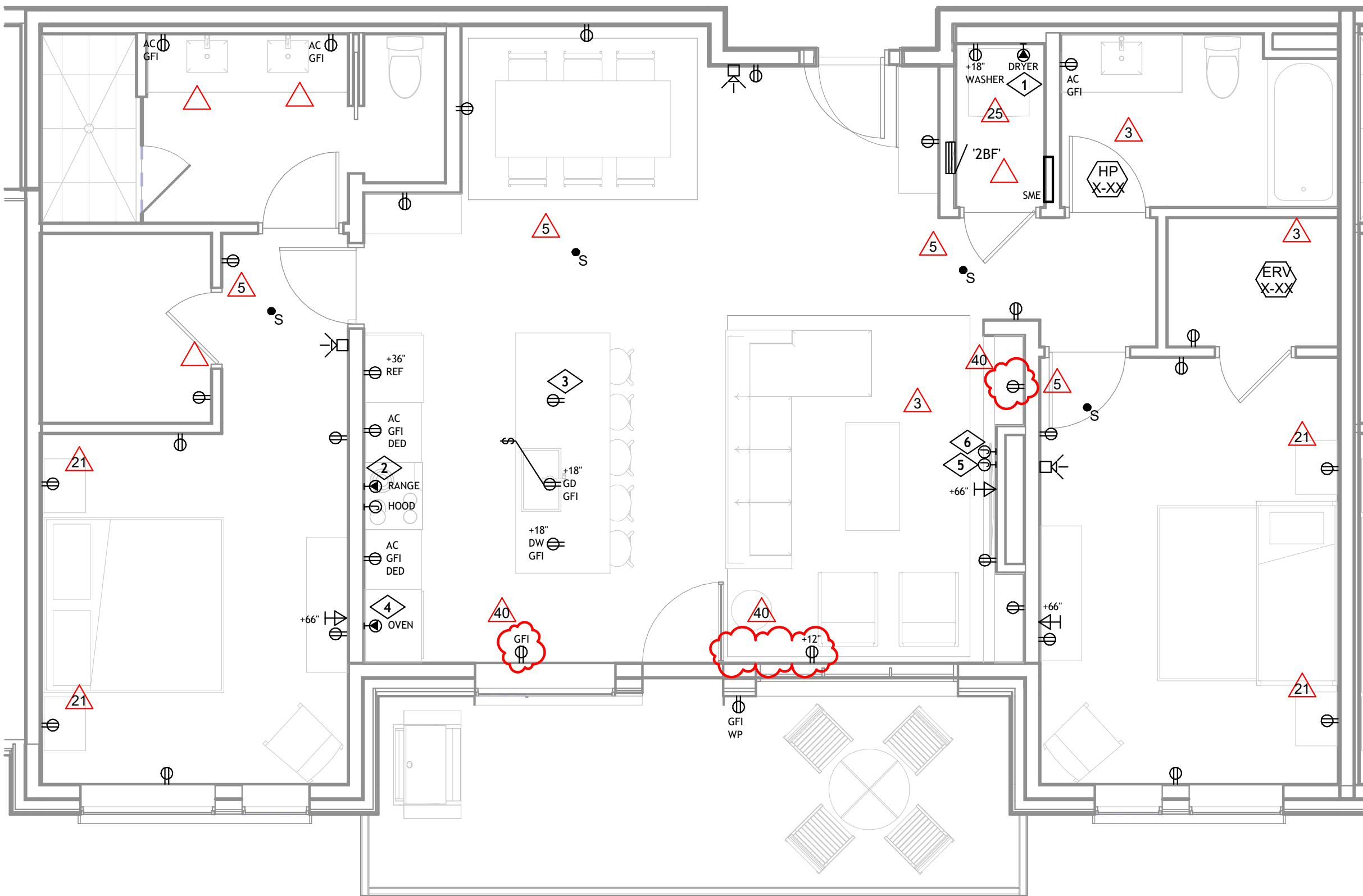
### KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
1	EC SHALL PROVIDE NEMA 14-30R RECEPTACLE FED WITH 3#10, 1#10G, 3/4"C FOR 30A, 208V/1PH, 4-WIRE CORD AND PLUG DRYER POWER CONNECTION.
2	PROVIDE HARDWIRED CONNECTION FOR 208V/1-PHASE, 4-WIRE, 40-AMP CIRCUIT AND 3#8, 1#10G, 1"C TO RANGE. COORDINATE EXACT POWER CONNECTION REQUIREMENTS WITH FINAL EQUIPMENT SHOP DRAWINGS.
3	PROVIDE POP-UP STYLE IN-COUNTER TAMPER RESISTANT DUPLEX RECEPTACLE, UL LISTED FOR USE IN COUNTER TOPS. BASIS OF DESIGN: MCKET HPS103B. CONNECT TO GFCI PROTECTED CIRCUIT AS REQUIRED. RECEPTACLE SHALL BE LOCATED AT BACK CABINET OF PULL-OUT TRASH COMPARTMENT. CONDUIT OR METAL-CLAD CABLE SHALL BE ROUTED TIGHT TO BACK OF CABINET SECTION AS REQUIRED TO ACCOMMODATE TRASH COMPARTMENT AND PROTECT WIRING. COORDINATE EXACT RECEPTACLE LOCATION IN COUNTER-TOP WITH ARCHITECT AND INTERIOR ELEVATIONS PRIOR TO ROUGH-IN.
4	PROVIDE HARDWIRED CONNECTION FOR 208V/1-PHASE, 4-WIRE, 40-AMP CIRCUIT AND 3#8, 1#10G, 1"C TO DOUBLE OVEN. COORDINATE EXACT POWER CONNECTION REQUIREMENTS WITH FINAL EQUIPMENT SHOP DRAWINGS.
5	EC SHALL PROVIDE 120V, 20A CONNECTION FOR FIREPLACE. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGH-IN.
6	EC SHALL PROVIDE 120V, 20A CONNECTION FOR FIREPLACE FAN. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGH-IN.
7	REFER TO NON-TYPE-A TYPICAL UNIT PLAN FOR DEVICE LAYOUT IN HATCHED AREA.
8	PROVIDE HARDWIRED CONNECTION FOR 208V/1-PHASE, 4-WIRE, 30-AMP CIRCUIT AND 3#10, 1#10G, 1"C TO OVEN. COORDINATE EXACT POWER CONNECTION REQUIREMENTS WITH FINAL EQUIPMENT SHOP DRAWINGS.



## 2 | ELECTRICAL POWER UNIT PLAN - 2 BEDROOM STANDARD TYPE-A

E2.02 | 1/4" = 1'-0"



## 1 | ELECTRICAL POWER UNIT PLAN - 2 BEDROOM STANDARD

E2.02 | 1/4" = 1'-0"

No.	Description	Date
1	DRP SUBMITTAL	07-22-2024
2	PROBET COMMENT	02-09-2024
3	RESPONSE	
4	RFT #10	08-15-2024
5	RFT #10	08-15-2024
6	RFT #10	08-15-2024
7	RFT #10	08-15-2024
8	RFT #10	08-15-2024
9	RFT #10	08-15-2024
10	RFT #10	08-15-2024
11	RFT #10	08-15-2024
12	RFT #10	08-15-2024
13	RFT #10	08-15-2024
14	RFT #10	08-15-2024
15	RFT #10	08-15-2024
16	RFT #10	08-15-2024
17	RFT #10	08-15-2024
18	RFT #10	08-15-2024
19	RFT #10	08-15-2024
20	RFT #10	08-15-2024
21	RFT #10	08-15-2024
22	RFT #10	08-15-2024
23	RFT #10	08-15-2024
24	RFT #10	08-15-2024
25	RFT #10	08-15-2024
26	RFT #10	08-15-2024
27	RFT #10	08-15-2024
28	RFT #10	08-15-2024
29	RFT #10	08-15-2024
30	RFT #10	08-15-2024
31	RFT #10	08-15-2024
32	RFT #10	08-15-2024
33	RFT #10	08-15-2024
34	RFT #10	08-15-2024
35	RFT #10	08-15-2024
36	RFT #10	08-15-2024
37	RFT #10	08-15-2024
38	RFT #10	08-15-2024
39	RFT #10	08-15-2024
40	RFT #10	08-15-2024
41	RFT #10	08-15-2024
42	RFT #10	08-15-2024
43	RFT #10	08-15-2024
44	RFT #10	08-15-2024
45	RFT #10	08-15-2024
46	RFT #10	08-15-2024
47	RFT #10	08-15-2024
48	RFT #10	08-15-2024
49	RFT #10	08-15-2024
50	RFT #10	08-15-2024

PROJECT NUMBER: 20019  
ISSUE DATE: 03/19/2024

The Amble

REUSE

IFC SET

SHEET TITLE

**ELECTRICAL POWER  
UNIT PLAN - 2  
BEDROOM STANDARD**

SHEET NO.

**E2.02**





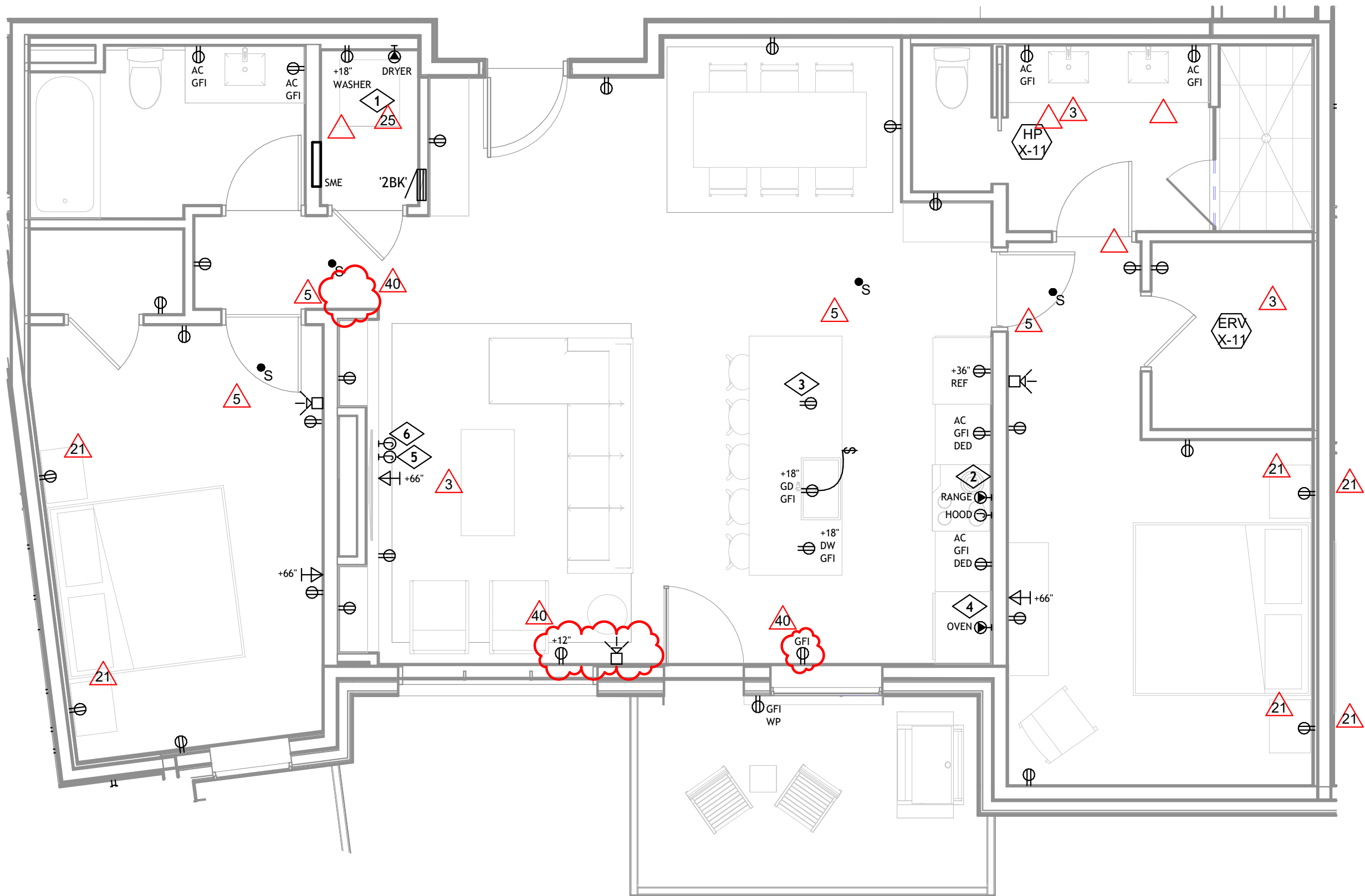


## DWELLING UNIT GENERAL NOTES

A. REFER TO DRAWING E2.00 FOR DWELLING UNIT GENERAL NOTES.

### KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
1	EC SHALL PROVIDE NEMA 14-30R RECEPTACLE FED WITH 3#10, 1#10G, 3/4" C FOR 30A, 208V/1PH, 4-WIRE CORD AND PLUG DRYER POWER CONNECTION.
2	PROVIDE HARDWIRED CONNECTION FOR 208V/1-PHASE, 4-WIRE, 40-AMP CIRCUIT AND 3#8, 1#10G, 1" C TO RANGE. COORDINATE EXACT POWER CONNECTION REQUIREMENTS WITH FINAL EQUIPMENT SHOP DRAWINGS.
3	PROVIDE POP-UP STYLE IN-COUNTER TAMPER RESISTANT DUPLEX RECEPTACLE, UL LISTED FOR USE IN COUNTER TOPS. BASIS OF DESIGN: MCKET HPS103B. CONNECT TO GFCI PROTECTED CIRCUIT AS REQUIRED. RECEPTACLE SHALL BE LOCATED AT BACK CABINET OF PULL-OUT TRASH COMPARTMENT. CONDUIT OR METAL-CLAD CABLE SHALL BE ROUTED TIGHT TO BACK OF CABINET SECTION AS REQUIRED TO ACCOMMODATE TRASH COMPARTMENT AND PROTECT WIRING. COORDINATE EXACT RECEPTACLE LOCATION IN COUNTER-TOP WITH ARCHITECT AND INTERIOR ELEVATIONS PRIOR TO ROUGH-IN.
4	PROVIDE HARDWIRED CONNECTION FOR 208V/1-PHASE, 4-WIRE, 40-AMP CIRCUIT AND 3#8, 1#10G, 1" C TO DOUBLE OVEN. COORDINATE EXACT POWER CONNECTION REQUIREMENTS WITH FINAL EQUIPMENT SHOP DRAWINGS.
5	EC SHALL PROVIDE 120V, 20A CONNECTION FOR FIREPLACE. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGH-IN.
6	EC SHALL PROVIDE 120V, 20A CONNECTION FOR FIREPLACE FAN. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGH-IN.



### 1 | ELECTRICAL POWER UNIT PLAN - 2 BEDROOM KNUCKLE

E2.04 | 1/4" = 1'-0"

No.	Description	Date
1	ISSUE SUBMITTAL	07-22-2024
2	PROJECT COMMENT	02-19-2024
3	RESPONSE	
4	RFI #10	08-15-2024
5	RFI #10	08-15-2024
6	RFI #10	08-15-2024
7	RFI #10	08-15-2024
8	RFI #10	08-15-2024
9	RFI #10	08-15-2024
10	RFI #10	08-15-2024
11	RFI #10	08-15-2024
12	RFI #10	08-15-2024
13	RFI #10	08-15-2024
14	RFI #10	08-15-2024
15	RFI #10	08-15-2024
16	RFI #10	08-15-2024
17	RFI #10	08-15-2024
18	RFI #10	08-15-2024
19	RFI #10	08-15-2024
20	RFI #10	08-15-2024
21	RFI #10	08-15-2024
22	RFI #10	08-15-2024
23	RFI #10	08-15-2024
24	RFI #10	08-15-2024
25	RFI #10	08-15-2024
26	RFI #10	08-15-2024
27	RFI #10	08-15-2024
28	RFI #10	08-15-2024
29	RFI #10	08-15-2024
30	RFI #10	08-15-2024
31	RFI #10	08-15-2024
32	RFI #10	08-15-2024
33	RFI #10	08-15-2024
34	RFI #10	08-15-2024
35	RFI #10	08-15-2024
36	RFI #10	08-15-2024
37	RFI #10	08-15-2024
38	RFI #10	08-15-2024
39	RFI #10	08-15-2024
40	RFI #10	08-15-2024
41	RFI #10	08-15-2024
42	RFI #10	08-15-2024
43	RFI #10	08-15-2024
44	RFI #10	08-15-2024
45	RFI #10	08-15-2024
46	RFI #10	08-15-2024
47	RFI #10	08-15-2024
48	RFI #10	08-15-2024
49	RFI #10	08-15-2024
50	RFI #10	08-15-2024
51	RFI #10	08-15-2024
52	RFI #10	08-15-2024
53	RFI #10	08-15-2024
54	RFI #10	08-15-2024
55	RFI #10	08-15-2024
56	RFI #10	08-15-2024
57	RFI #10	08-15-2024
58	RFI #10	08-15-2024
59	RFI #10	08-15-2024
60	RFI #10	08-15-2024
61	RFI #10	08-15-2024
62	RFI #10	08-15-2024
63	RFI #10	08-15-2024
64	RFI #10	08-15-2024
65	RFI #10	08-15-2024
66	RFI #10	08-15-2024
67	RFI #10	08-15-2024
68	RFI #10	08-15-2024
69	RFI #10	08-15-2024
70	RFI #10	08-15-2024
71	RFI #10	08-15-2024
72	RFI #10	08-15-2024
73	RFI #10	08-15-2024
74	RFI #10	08-15-2024
75	RFI #10	08-15-2024
76	RFI #10	08-15-2024
77	RFI #10	08-15-2024
78	RFI #10	08-15-2024
79	RFI #10	08-15-2024
80	RFI #10	08-15-2024
81	RFI #10	08-15-2024
82	RFI #10	08-15-2024
83	RFI #10	08-15-2024
84	RFI #10	08-15-2024
85	RFI #10	08-15-2024
86	RFI #10	08-15-2024
87	RFI #10	08-15-2024
88	RFI #10	08-15-2024
89	RFI #10	08-15-2024
90	RFI #10	08-15-2024
91	RFI #10	08-15-2024
92	RFI #10	08-15-2024
93	RFI #10	08-15-2024
94	RFI #10	08-15-2024
95	RFI #10	08-15-2024
96	RFI #10	08-15-2024
97	RFI #10	08-15-2024
98	RFI #10	08-15-2024
99	RFI #10	08-15-2024
100	RFI #10	08-15-2024

PROJECT NUMBER: 20019  
ISSUE DATE: 03/19/2024

The Amble

ISSUE

IFC SET

SHEET TITLE

ELECTRICAL POWER  
UNIT PLAN - 2  
BEDROOM KNUCKLE

SHEET NO.

E2.04





359  
DESIGN

3630 OSAGE STREET  
DENVER, CO 80202  
720.622.5457



1900 Wazee Street Suite #205  
Denver, CO 80202 303.296.3034  
aedesign-inc.com Proj #A219.00

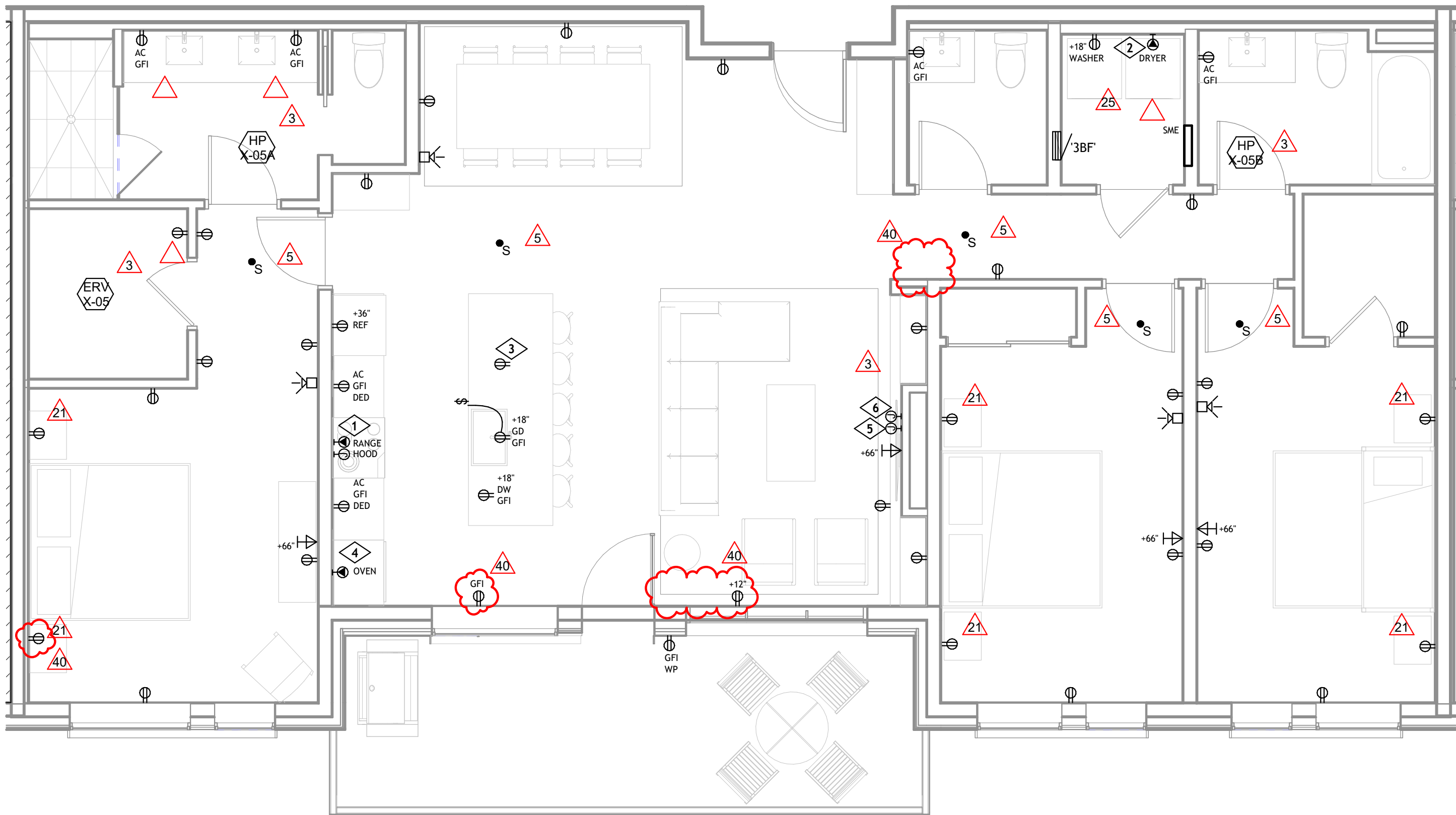
The Amble  
Steamboat Springs, CO

## DWELLING UNIT GENERAL NOTES

A. REFER TO DRAWING E2.00 FOR DWELLING UNIT GENERAL NOTES.

### KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
1	PROVIDE HARDWIRED CONNECTION FOR 208V/1-PHASE, 4-WIRE, 40-AMP CIRCUIT AND 3#8, 1#10G, 1" C TO RANGE. COORDINATE EXACT POWER CONNECTION REQUIREMENTS WITH FINAL EQUIPMENT SHOP DRAWINGS.
2	EC SHALL PROVIDE NEMA 14-30R RECEPTACLE FED WITH 3#10, 1#10G, 3/4" C FOR 30A, 208V/1PH, 4-WIRE CORD AND PLUG DRYER POWER CONNECTION.
3	PROVIDE POP-UP STYLE IN-COUNTER TAMPER RESISTANT DUPLEX RECEPTACLE, UL LISTED FOR USE IN COUNTER TOPS. BASIS OF DESIGN: MOCKET HPS103B. CONNECT TO GFCI PROTECTED CIRCUIT AS REQUIRED. RECEPTACLE SHALL BE LOCATED AT BACK CABINET OF PULL-OUT TRASH COMPARTMENT. CONDUIT OR METAL-CLAD CABLE SHALL BE ROUTED TIGHT TO BACK OF CABINET SECTION AS REQUIRED TO ACCOMMODATE TRASH COMPARTMENT AND PROTECT WIRING. COORDINATE EXACT RECEPTACLE LOCATION IN COUNTER-TOP WITH ARCHITECT AND INTERIOR ELEVATIONS PRIOR TO ROUGH-IN.
4	PROVIDE HARDWIRED CONNECTION FOR 208V/1-PHASE, 4-WIRE, 40-AMP CIRCUIT AND 3#8, 1#10G, 1" C TO DOUBLE OVEN. COORDINATE EXACT POWER CONNECTION REQUIREMENTS WITH FINAL EQUIPMENT SHOP DRAWINGS.
5	EC SHALL PROVIDE 120V, 20A CONNECTION FOR FIREPLACE. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGH-IN.
6	EC SHALL PROVIDE 120V, 20A CONNECTION FOR FIREPLACE FAN. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGH-IN.



1 | ELECTRICAL POWER UNIT PLAN - 3 BEDROOM FLEX  
E2.05 | 1/4" = 1'-0"

No.	Description	Date
1	ISSUED FOR PERMIT	01/22/2024
2	PERMIT COMMENT	02/08/2024
3	RESPONSE	03/15/2024
4	RFI #1	04/12/2024
5	RFI #2	04/30/2024
6	RFI #3	05/02/2024
7	RFI #4	05/02/2024
8	RFI #5	05/02/2024
9	RFI #6	05/02/2024
10	RFI #7	05/02/2024
11	RFI #8	05/02/2024
12	RFI #9	05/02/2024
13	RFI #10	05/02/2024
14	RFI #11	05/02/2024
15	RFI #12	05/02/2024
16	RFI #13	05/02/2024
17	RFI #14	05/02/2024
18	RFI #15	05/02/2024
19	RFI #16	05/02/2024
20	RFI #17	05/02/2024
21	RFI #18	05/02/2024
22	RFI #19	05/02/2024
23	RFI #20	05/02/2024
24	RFI #21	05/02/2024
25	RFI #22	05/02/2024
26	RFI #23	05/02/2024
27	RFI #24	05/02/2024
28	RFI #25	05/02/2024
29	RFI #26	05/02/2024
30	RFI #27	05/02/2024
31	RFI #28	05/02/2024
32	RFI #29	05/02/2024
33	RFI #30	05/02/2024
34	RFI #31	05/02/2024
35	RFI #32	05/02/2024
36	RFI #33	05/02/2024
37	RFI #34	05/02/2024
38	RFI #35	05/02/2024
39	RFI #36	05/02/2024
40	RFI #37	05/02/2024
41	RFI #38	05/02/2024
42	RFI #39	05/02/2024
43	RFI #40	05/02/2024
44	RFI #41	05/02/2024
45	RFI #42	05/02/2024
46	RFI #43	05/02/2024
47	RFI #44	05/02/2024
48	RFI #45	05/02/2024
49	RFI #46	05/02/2024
50	RFI #47	05/02/2024
51	RFI #48	05/02/2024
52	RFI #49	05/02/2024
53	RFI #50	05/02/2024
54	RFI #51	05/02/2024
55	RFI #52	05/02/2024
56	RFI #53	05/02/2024
57	RFI #54	05/02/2024
58	RFI #55	05/02/2024
59	RFI #56	05/02/2024
60	RFI #57	05/02/2024
61	RFI #58	05/02/2024
62	RFI #59	05/02/2024
63	RFI #60	05/02/2024
64	RFI #61	05/02/2024
65	RFI #62	05/02/2024
66	RFI #63	05/02/2024
67	RFI #64	05/02/2024
68	RFI #65	05/02/2024
69	RFI #66	05/02/2024
70	RFI #67	05/02/2024
71	RFI #68	05/02/2024
72	RFI #69	05/02/2024
73	RFI #70	05/02/2024
74	RFI #71	05/02/2024
75	RFI #72	05/02/2024
76	RFI #73	05/02/2024
77	RFI #74	05/02/2024
78	RFI #75	05/02/2024
79	RFI #76	05/02/2024
80	RFI #77	05/02/2024
81	RFI #78	05/02/2024
82	RFI #79	05/02/2024
83	RFI #80	05/02/2024
84	RFI #81	05/02/2024
85	RFI #82	05/02/2024
86	RFI #83	05/02/2024
87	RFI #84	05/02/2024
88	RFI #85	05/02/2024
89	RFI #86	05/02/2024
90	RFI #87	05/02/2024
91	RFI #88	05/02/2024
92	RFI #89	05/02/2024
93	RFI #90	05/02/2024
94	RFI #91	05/02/2024
95	RFI #92	05/02/2024
96	RFI #93	05/02/2024
97	RFI #94	05/02/2024
98	RFI #95	05/02/2024
99	RFI #96	05/02/2024
100	RFI #97	05/02/2024
101	RFI #98	05/02/2024
102	RFI #99	05/02/2024
103	RFI #100	05/02/2024
104	RFI #101	05/02/2024
105	RFI #102	05/02/2024
106	RFI #103	05/02/2024
107	RFI #104	05/02/2024
108	RFI #105	05/02/2024
109	RFI #106	05/02/2024
110	RFI #107	05/02/2024
111	RFI #108	05/02/2024
112	RFI #109	05/02/2024
113	RFI #110	05/02/2024
114	RFI #111	05/02/2024
115	RFI #112	05/02/2024
116	RFI #113	05/02/2024
117	RFI #114	05/02/2024
118	RFI #115	05/02/2024
119	RFI #116	05/02/2024
120	RFI #117	05/02/2024
121	RFI #118	05/02/2024
122	RFI #119	05/02/2024
123	RFI #120	05/02/2024
124	RFI #121	05/02/2024
125	RFI #122	05/02/2024
126	RFI #123	05/02/2024
127	RFI #124	05/02/2024
128	RFI #125	05/02/2024
129	RFI #126	05/02/2024
130	RFI #127	05/02/2024
131	RFI #128	05/02/2024
132	RFI #129	05/02/2024
133	RFI #130	05/02/2024
134	RFI #131	05/02/2024
135	RFI #132	05/02/2024
136	RFI #133	05/02/2024
137	RFI #134	05/02/2024
138	RFI #135	05/02/2024
139	RFI #136	05/02/2024
140	RFI #137	05/02/2024
141	RFI #138	05/02/2024
142	RFI #139	05/02/2024
143	RFI #140	05/02/2024
144	RFI #141	05/02/2024
145	RFI #142	05/02/2024
146	RFI #143	05/02/2024
147	RFI #144	05/02/2024
148	RFI #145	05/02/2024
149	RFI #146	05/02/2024
150	RFI #147	05/02/2024
151	RFI #148	05/02/2024
152	RFI #149	05/02/2024
153	RFI #150	05/02/2024
154	RFI #151	05/02/2024
155	RFI #152	05/02/2024
156	RFI #153	05/02/2024
157	RFI #154	05/02/2024
158	RFI #155	05/02/2024
159	RFI #156	05/02/2024
160	RFI #157	05/02/2024
161	RFI #158	05/02/2024
162	RFI #159	05/02/2024
163	RFI #160	05/02/2024
164	RFI #161	05/02/2024
165	RFI #162	05/02/2024
166	RFI #163	05/02/2024
167	RFI #164	05/02/2024
168	RFI #165	05/02/2024
169	RFI #166	05/02/2024
170	RFI #167	05/02/2024
171	RFI #168	05/02/2024
172	RFI #169	05/02/2024
173	RFI #170	05/02/2024
174	RFI #171	05/02/2024
175	RFI #172	05/02/2024
176	RFI #173	05/02/2024
177	RFI #174	05/02/2024
178	RFI #175	05/02/2024
179	RFI #176	05/02/2024
180	RFI #177	05/02/2024
181	RFI #178	05/02/2024
182	RFI #179	05/02/2024
183	RFI #180	05/02/2024
184	RFI #181	05/02/2024
185	RFI #182	05/02/2024
186	RFI #183	05/02/2024
187	RFI #184	05/02/2024
188	RFI #185	05/02/2024
189	RFI #186	05/02/2024
190	RFI #187	05/02/2024
191	RFI #188	05/02/2024
192	RFI #189	05/02/2024
193	RFI #190	05/02/2024
194	RFI #191	05/02/2024
195	RFI #192	05/02/2024
196	RFI #193	05/02/2024
197	RFI #194	05/02/2024
198	RFI #195	05/02/2024
199	RFI #196	05/02/2024
200	RFI #197	05/02/2024
201	RFI #198	05/02/2024
202	RFI #199	05/02/2024
203	RFI #200	05/02/2024
204	RFI #201	05/02/2024
205	RFI #202	05/02/2024
206	RFI #203	05/02/2024
207	RFI #204	05/02/2024
208	RFI #205	05/02/2024
209	RFI #206	05/02/2024
210	RFI #207	05/02/2024
211	RFI #208	05/02/2024
212	RFI #209	05/02/2024
213	RFI #210	05/02/2024
214	RFI #211	05/02/2024
215	RFI #212	05/02/2024
216	RFI #213	05/02/2024
217	RFI #214	05/02/2024
218	RFI #215	05/02/2024
219	RFI #216	05/02/2024
220	RFI #217	05/02/2024
221	RFI #218	05/02/2024
222	RFI #219	05/02/2024
223	RFI #220	05/02/2024
224	RFI #221	05/02/2024
225	RFI #222	05/02/2024
226	RFI #223	05/02/2024
227	RFI #224	05/02/2024
228	RFI #225	05/02/2024
229	RFI #226	05/02/2024
230	RFI #227	05/02/2024
231	RFI #228	05/02/2024
232	RFI #229	05/02/2024
233	RFI #230	05/02/2024
234	RFI #231	05/02/2024
235	RFI #232	05/02/2024
236	RFI #233	05/02/2024
237	RFI #234	05/02/2024
238	RFI #235	05/02/2024
239	RFI #236	05/02/2024
240	RFI #237	05/02/2024
241	RFI #238	05/02/2024
242	RFI #239	05/02/2024
243	RFI #240	05/02/2024
244	RFI #241	05/02/2024
245	RFI #242	05/02/2024
246	RFI #243	05/02/2024
247	RFI #244	05/02/2024
248	RFI #245	05/02/2024
249	RFI #246	05/02/2024
250	RFI #247	05/02/2024
251	RFI #248	05/02/2024
252	RFI #249	05/02/2024
253	RFI #250	05/02/2024
254	RFI #251	05/02/2024
255	RFI #252	05/02/2024
256	RFI #253	05/02/2024
257	RFI #254	05/02/2024
258	RFI #255	05/02/2024
259	RFI #256	05/02/2024
260	RFI #257	05/02/2024
261	RFI #258	05/02/2024
262	RFI #259	05/02/2024
263	RFI #260	05/02/2024
264	RFI #261	05/02/2024
265	RFI #262	05/02/2024
266	RFI #263	05/02/2024
267	RFI #264	05/02/2024
268	RFI #265	05/02/2024
269	RFI #266	05/02/2024
270	RFI #267	05/02/2024
271	RFI #268	05/02/2024
272	RFI #269	05/02/2024
273	RFI #270	05/02/2024
274	RFI #271	05/02/2024
275	RFI #272	05/02/2024
276	RFI #273	05/02/2024
277	RFI #274	05/02/2024
278	RFI #275	05/02/2024
279	RFI #276	05/02/2024
280	RFI #277	05/02/2024
281	RFI #278	05/02/2024
282	RFI #279	05/02/2024
283	RFI #280	05/02/2024
284	RFI #281	05/02/2024
285	RFI #282	05/02/2024
286	RFI #283	05/02/2024
287	RFI #284	05/02/2024
288	RFI #285	05/02/2024
289	RFI #286	05/02/2024
290	RFI #287	05/02/2024
291	RFI #288	05/02/2024
292	RFI #289	05/02/2024
293	RFI #290	05/02/2024
294	RFI #291	05/02/2024
295	RFI #292	05/02/2024
296	RFI #293	05/02/2024
297	RFI #294	05/02/2024
298	RFI #295	05/02/20

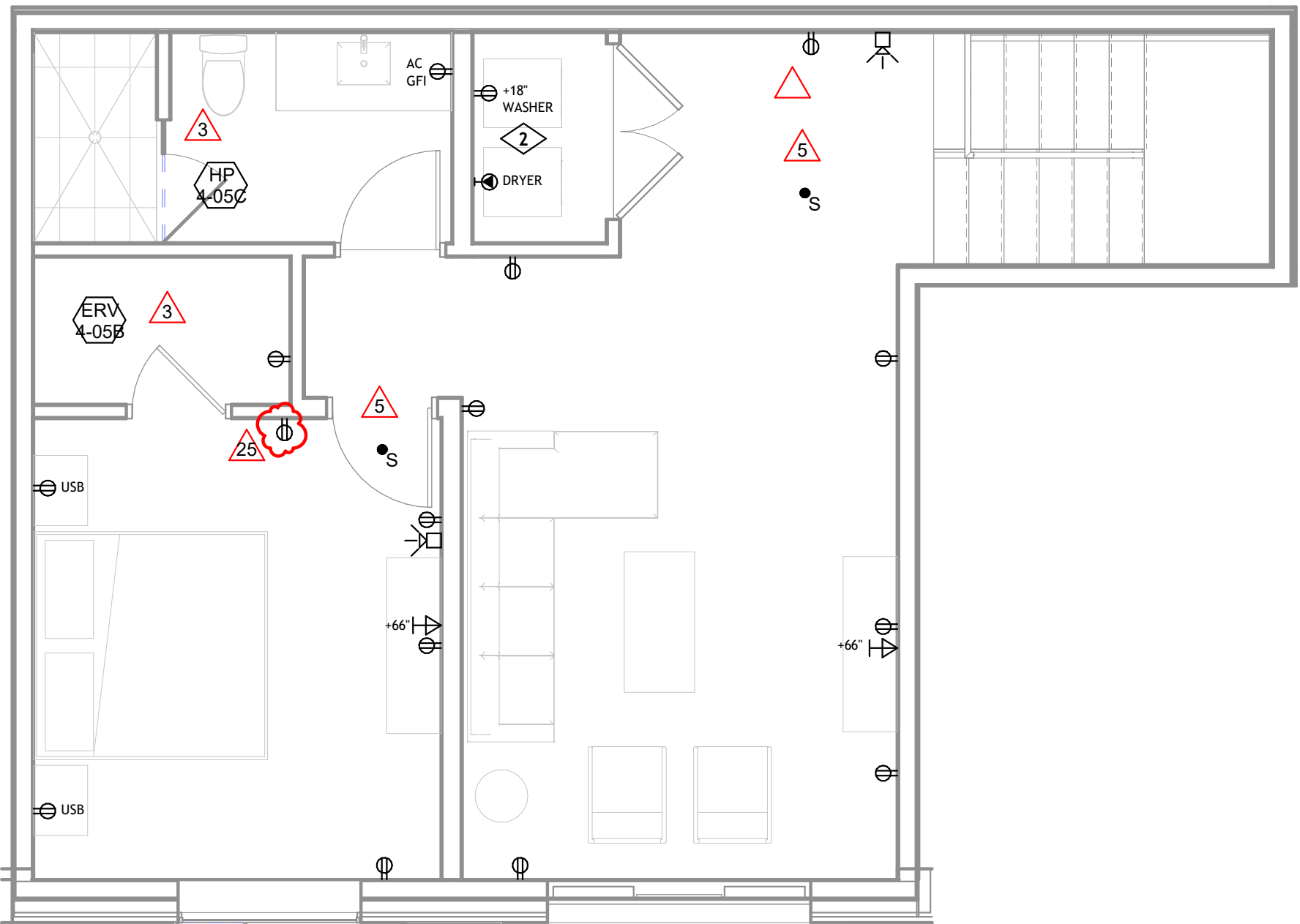


DWELLING UNIT GENERAL NOTES	
A.	REFER TO DRAWING E2.00 FOR DWELLING UNIT GENERAL NOTES.

KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
1	REFER TO NON-LOFT TYPICAL UNIT PLAN FOR DEVICE LAYOUT IN HATCHED AREA.
2	EC SHALL PROVIDE NEMA 14-30R RECEPTACLE FED WITH 3#10, 1#10G, 3/4"C FOR 30A, 208V/1PH, 4-WIRE CORD AND PLUG DRYER POWER CONNECTION.



1 | ELECTRICAL POWER UNIT PLAN - 3 BEDROOM FLEX LOFT  
E2.06 | 1/4" = 1'-0"



2 | ELECTRICAL POWER UNIT PLAN - 3 BEDROOM FLEX DORMER  
E2.06 | 1/4" = 1'-0"

REVISIONS		
No.	Description	Date
1	ISSUE SUBMITTAL	07-22-2024
2	PROJECT COMMENT	02-18-2024
3	RESPONSE	08-15-2024
4	RPT #39	04-12-2024
5	RPT #38	07-29-2024
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

PROJECT NUMBER: 20619  
ISSUE DATE: 03/19/2024

The Amble

ISSUE

IFC SET

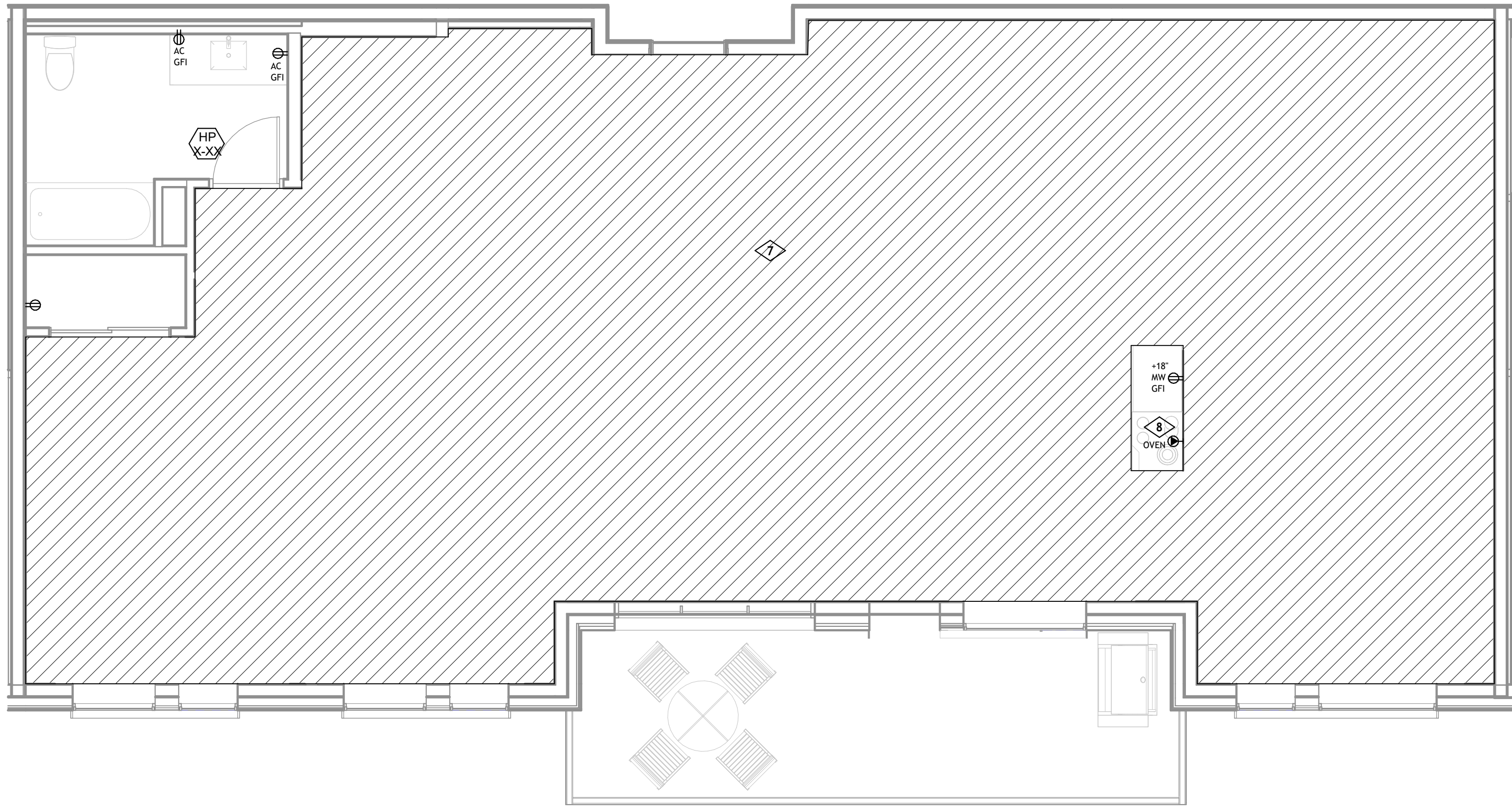
SHEET TITLE

ELECTRICAL POWER  
UNIT PLAN - 3  
BEDROOM FLEX LOFT

SHEET NO.

E2.06





## DWELLING UNIT GENERAL NOTES

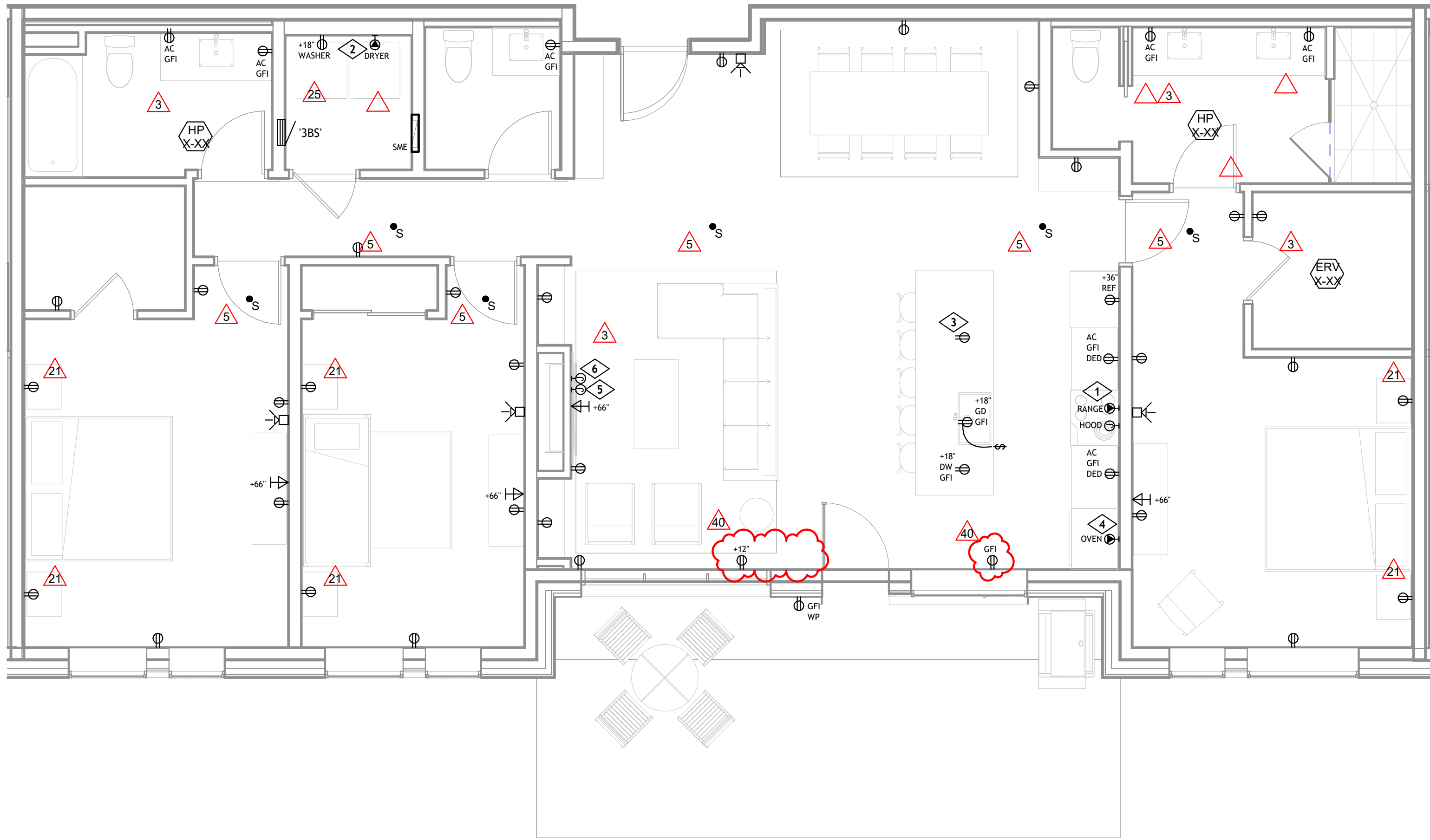
A. REFER TO DRAWING E2.00 FOR DWELLING UNIT GENERAL NOTES.

### KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
1	PROVIDE HARDWIRED CONNECTION FOR 208V/1-PHASE, 4-WIRE, 40-AMP CIRCUIT AND 3#8, 1#10G, 1" C TO RANGE. COORDINATE EXACT POWER CONNECTION REQUIREMENTS WITH FINAL EQUIPMENT SHOP DRAWINGS.
2	EC SHALL PROVIDE NEMA 14-30R RECEPTACLE FED WITH 3#10, 1#10G, 3/4" C FOR 30A, 208V/1PH, 4-WIRE CORD AND PLUG DRYER POWER CONNECTION.
3	PROVIDE POP-UP STYLE IN-COUNTER TAMPER RESISTANT DUPLEX RECEPTACLE, UL LISTED FOR USE IN COUNTER TOPS. BASIS OF DESIGN: MOCKET HPS103B. CONNECT TO GFCI PROTECTED CIRCUIT AS REQUIRED. RECEPTACLE SHALL BE LOCATED AT BACK CABINET OF PULL-OUT TRASH COMPARTMENT. CONDUIT OR METAL-CLAD CABLE SHALL BE ROUTED TIGHT TO BACK OF CABINET SECTION AS REQUIRED TO ACCOMMODATE TRASH COMPARTMENT AND PROTECT WIRING. COORDINATE EXACT RECEPTACLE LOCATION IN COUNTER-TOP WITH ARCHITECT AND INTERIOR ELEVATIONS PRIOR TO ROUGH-IN.
4	PROVIDE HARDWIRED CONNECTION FOR 208V/1-PHASE, 4-WIRE, 40-AMP CIRCUIT AND 3#8, 1#10G, 1" C TO DOUBLE OVEN. COORDINATE EXACT POWER CONNECTION REQUIREMENTS WITH FINAL EQUIPMENT SHOP DRAWINGS.
5	EC SHALL PROVIDE 120V, 20A CONNECTION FOR FIREPLACE. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGH-IN.
6	EC SHALL PROVIDE 120V, 20A CONNECTION FOR FIREPLACE FAN. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGH-IN.
7	REFER TO NON-TYPE-A TYPICAL UNIT PLAN FOR DEVICE LAYOUT IN HATCHED AREA.
8	PROVIDE HARDWIRED CONNECTION FOR 208V/1-PHASE, 4-WIRE, 30-AMP CIRCUIT AND 3#10, 1#10G, 1" C TO OVEN. COORDINATE EXACT POWER CONNECTION REQUIREMENTS WITH FINAL EQUIPMENT SHOP DRAWINGS.

## 2 | ELECTRICAL POWER UNIT PLAN - 3 BEDROOM STANDARD TYPE A

E2.07 | 1/4" = 1'-0"



## 1 | ELECTRICAL POWER UNIT PLAN - 3 BEDROOM STANDARD

E2.07 | 1/4" = 1'-0"



**359**  
DESIGN

3630 OSAGE STREET  
DENVER, CO 80211  
726.62.5457

**AE DESIGN**  
Integrated Lighting, Technology  
and Electrical Solutions  
1900 Wazee Street Suite #205  
Denver, CO 80202 303.296.3034  
aedesign-inc.com Proj #a219.00

**The Amble**  
Steamboat Springs, CO

No.	Description	Date
1	GRAPH SUBMITTAL	01/22/2024
2	PROJECT COMMENT	02/08/2024
3	RESPONSE	
4	RFI #10	03/15/2024
5	RFI #10	04/12/2024
6	RFI #10	04/30/2024
7	RFI #10	05/13/2024
8	RFI #10	07/28/2024
9	RFI #10	07/28/2024
10	RFI #10	11/23/2024

PROJECT NUMBER: 20619  
ISSUE DATE: 03/15/2024

**The Amble**

ISSUE

**IFC SET**

SHEET TITLE

**ELECTRICAL POWER  
UNIT PLAN - 3  
BEDROOM STANDARD**

SHEET NO.

**E2.07**



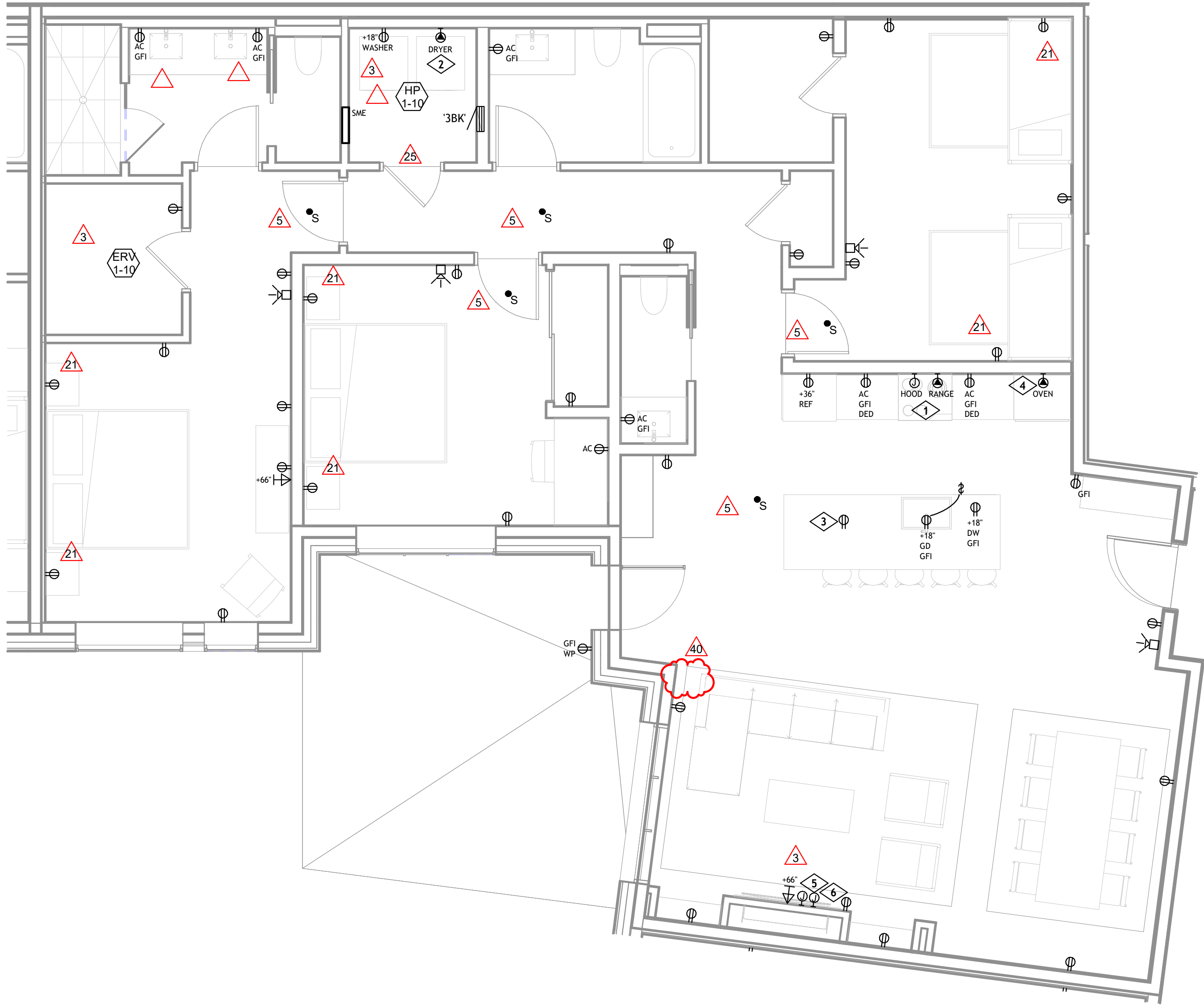




DWELLING UNIT GENERAL NOTES

A. REFER TO DRAWING E2.00 FOR DWELLING UNIT GENERAL NOTES.

KEYNOTE LEGEND		
KEY VALUE	KEYNOTE TEXT	
1	PROVIDE HARDWIRED CONNECTION FOR 208V/1-PHASE, 4-WIRE, 40-AMP CIRCUIT AND 3#8, 1#10G, 1" C TO RANGE. COORDINATE EXACT POWER CONNECTION REQUIREMENTS WITH FINAL EQUIPMENT SHOP DRAWINGS.	
2	EC SHALL PROVIDE NEMA 14-30R RECEPTACLE FED WITH 3#10, 1#10G, 3/4" C FOR 30A, 208V/1PH, 4-WIRE CORD AND PLUG DRYER POWER CONNECTION.	
3	PROVIDE POP-UP STYLE IN-COUNTER TAMPER RESISTANT DUPLEX RECEPTACLE, UL LISTED FOR USE IN COUNTER TOPS. BASIS OF DESIGN: MOCKET HPS103B. CONNECT TO GFCI PROTECTED CIRCUIT AS REQUIRED. RECEPTACLE SHALL BE LOCATED AT BACK CABINET OF PULL-OUT TRASH COMPARTMENT. CONDUIT OR METAL-CLAD CABLE SHALL BE ROUTED TIGHT TO BACK OF CABINET SECTION AS REQUIRED TO ACCOMMODATE TRASH COMPARTMENT AND PROTECT WIRING. COORDINATE EXACT RECEPTACLE LOCATION IN COUNTER-TOP WITH ARCHITECT AND INTERIOR ELEVATIONS PRIOR TO ROUGH-IN.	
4	PROVIDE HARDWIRED CONNECTION FOR 208V/1-PHASE, 4-WIRE, 40-AMP CIRCUIT AND 3#8, 1#10G, 1" C TO DOUBLE OVEN. COORDINATE EXACT POWER CONNECTION REQUIREMENTS WITH FINAL EQUIPMENT SHOP DRAWINGS.	
5	EC SHALL PROVIDE 120V, 20A CONNECTION FOR FIREPLACE. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGH-IN.	
6	EC SHALL PROVIDE 120V, 20A CONNECTION FOR FIREPLACE FAN. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGH-IN.	



1 | ELECTRICAL POWER UNIT PLAN - 3 BEDROOM KNUCKLE

E2.09 | 1/4" = 1'-0"

359  
DESIGN

3631 OSAGE STREET  
DENVER, CO 80211  
726.62.5457

AE DESIGN

Integrated Lighting, Technology  
and Electrical Solutions

1900 Wazee Street Suite #205  
Denver, CO 80202 303.296.3034  
aedesign-inc.com Proj #A219.00

The Amble

Steamboat Springs, CO

No.	Description	Date
1	ISSUED FOR PERMIT	07-22-2024
2	PERMIT COMMENT	02-08-2024
3	RESPONSE	
4	RFI #10	08-15-2024
5	RFI #10	08-15-2024
6	RFI #10	08-15-2024
7	RFI #10	08-15-2024
8	RFI #10	08-15-2024
9	RFI #10	08-15-2024
10	RFI #10	08-15-2024
11	RFI #10	08-15-2024
12	RFI #10	08-15-2024
13	RFI #10	08-15-2024
14	RFI #10	08-15-2024
15	RFI #10	08-15-2024
16	RFI #10	08-15-2024
17	RFI #10	08-15-2024
18	RFI #10	08-15-2024
19	RFI #10	08-15-2024
20	RFI #10	08-15-2024
21	RFI #10	08-15-2024
22	RFI #10	08-15-2024
23	RFI #10	08-15-2024
24	RFI #10	08-15-2024
25	RFI #10	08-15-2024
26	RFI #10	08-15-2024
27	RFI #10	08-15-2024
28	RFI #10	08-15-2024
29	RFI #10	08-15-2024
30	RFI #10	08-15-2024
31	RFI #10	08-15-2024
32	RFI #10	08-15-2024
33	RFI #10	08-15-2024
34	RFI #10	08-15-2024
35	RFI #10	08-15-2024
36	RFI #10	08-15-2024
37	RFI #10	08-15-2024
38	RFI #10	08-15-2024
39	RFI #10	08-15-2024
40	RFI #10	08-15-2024
41	RFI #10	08-15-2024
42	RFI #10	08-15-2024
43	RFI #10	08-15-2024
44	RFI #10	08-15-2024
45	RFI #10	08-15-2024
46	RFI #10	08-15-2024
47	RFI #10	08-15-2024
48	RFI #10	08-15-2024
49	RFI #10	08-15-2024
50	RFI #10	08-15-2024
51	RFI #10	08-15-2024
52	RFI #10	08-15-2024
53	RFI #10	08-15-2024
54	RFI #10	08-15-2024
55	RFI #10	08-15-2024
56	RFI #10	08-15-2024
57	RFI #10	08-15-2024
58	RFI #10	08-15-2024
59	RFI #10	08-15-2024
60	RFI #10	08-15-2024
61	RFI #10	08-15-2024
62	RFI #10	08-15-2024
63	RFI #10	08-15-2024
64	RFI #10	08-15-2024
65	RFI #10	08-15-2024
66	RFI #10	08-15-2024
67	RFI #10	08-15-2024
68	RFI #10	08-15-2024
69	RFI #10	08-15-2024
70	RFI #10	08-15-2024
71	RFI #10	08-15-2024
72	RFI #10	08-15-2024
73	RFI #10	08-15-2024
74	RFI #10	08-15-2024
75	RFI #10	08-15-2024
76	RFI #10	08-15-2024
77	RFI #10	08-15-2024
78	RFI #10	08-15-2024
79	RFI #10	08-15-2024
80	RFI #10	08-15-2024
81	RFI #10	08-15-2024
82	RFI #10	08-15-2024
83	RFI #10	08-15-2024
84	RFI #10	08-15-2024
85	RFI #10	08-15-2024
86	RFI #10	08-15-2024
87	RFI #10	08-15-2024
88	RFI #10	08-15-2024
89	RFI #10	08-15-2024
90	RFI #10	08-15-2024
91	RFI #10	08-15-2024
92	RFI #10	08-15-2024
93	RFI #10	08-15-2024
94	RFI #10	08-15-2024
95	RFI #10	08-15-2024
96	RFI #10	08-15-2024
97	RFI #10	08-15-2024
98	RFI #10	08-15-2024
99	RFI #10	08-15-2024
100	RFI #10	08-15-2024

PROJECT NUMBER 20819

ISSUE DATE 03/19/2024

The Amble

ISSUE

IFC SET

SHEET TITLE

ELECTRICAL POWER  
UNIT PLAN - 3  
BEDROOM KNUCKLE

SHEET NO.

E2.09

11/22/2024 2:30:15 PM





359  
DESIGN

3631 OSAGE STREET  
DENVER, CO 80211  
726.622.5457



Integrated Lighting, Technology  
and Electrical Solutions  
1900 Wazee Street Suite #205  
Denver, CO 80202 303.296.3034  
aedesign-inc.com Proj #A219.00

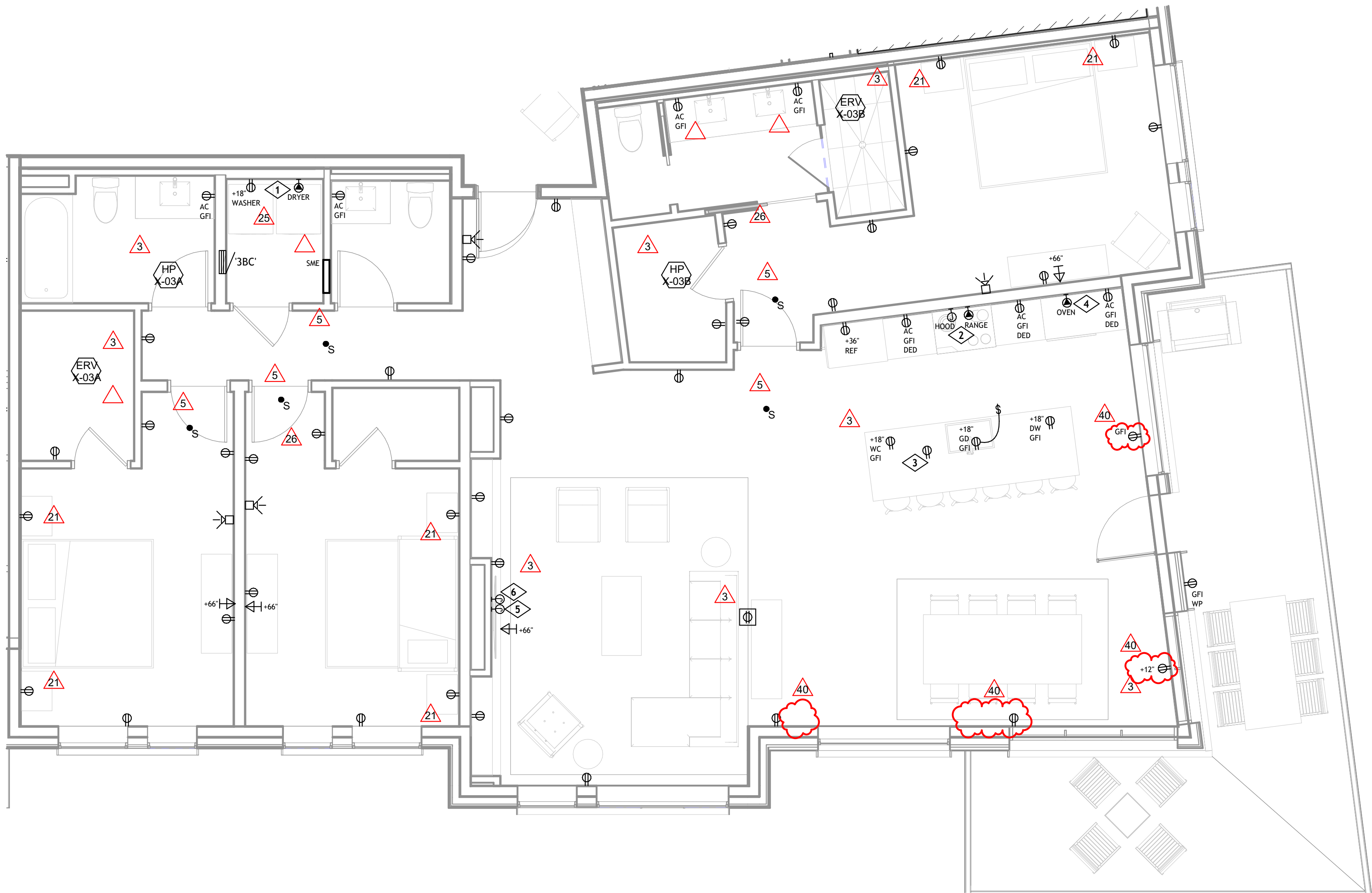
The Amble  
Steamboat Springs, CO

## DWELLING UNIT GENERAL NOTES

A. REFER TO DRAWING E2.00 FOR DWELLING UNIT GENERAL NOTES.

### KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
1	EC SHALL PROVIDE NEMA 14-30R RECEPTACLE FED WITH 3#10, 1#10G, 3/4"C FOR 30A, 208V/1PH, 4-WIRE CORD AND PLUG DRYER POWER CONNECTION.
2	PROVIDE HARDWIRED CONNECTION FOR 208V/1-PHASE, 4-WIRE, 40-AMP CIRCUIT AND 3#8, 1#10G, 1"C TO RANGE. COORDINATE EXACT POWER CONNECTION REQUIREMENTS WITH FINAL EQUIPMENT SHOP DRAWINGS.
3	PROVIDE POP-UP STYLE IN-COUNTER TAMPER RESISTANT DUPLEX RECEPTACLE, UL LISTED FOR USE IN COUNTER TOPS. BASIS OF DESIGN: MCKET HPS103B. CONNECT TO GFCI PROTECTED CIRCUIT AS REQUIRED. RECEPTACLE SHALL BE LOCATED AT BACK CABINET OF PULL-OUT TRASH COMPARTMENT. CONDUIT OR METAL-CLAD CABLE SHALL BE ROUTED TIGHT TO BACK OF CABINET SECTION AS REQUIRED TO ACCOMMODATE TRASH COMPARTMENT AND PROTECT WIRING. COORDINATE EXACT RECEPTACLE LOCATION IN COUNTER-TOP WITH ARCHITECT AND INTERIOR ELEVATIONS PRIOR TO ROUGH-IN.
4	PROVIDE HARDWIRED CONNECTION FOR 208V/1-PHASE, 4-WIRE, 40-AMP CIRCUIT AND 3#8, 1#10G, 1"C TO DOUBLE OVEN. COORDINATE EXACT POWER CONNECTION REQUIREMENTS WITH FINAL EQUIPMENT SHOP DRAWINGS.
5	EC SHALL PROVIDE 120V, 20A CONNECTION FOR FIREPLACE. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGH-IN.
6	EC SHALL PROVIDE 120V, 20A CONNECTION FOR FIREPLACE FAN. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGH-IN.



### 1 | ELECTRICAL POWER UNIT PLAN - 3 BEDROOM CORNER

E2.10 | 1/4" = 1'-0"

No.	Description	Date
1	GRAPH SUBMITTAL	07-22-2024
2	PROJECT COMMENT	02-09-2024
3	RESPONSE	
4	RPT #10	08-15-2024
5	RPT #10	08-15-2024
6	RPT #10	08-15-2024
7	RPT #10	08-15-2024
8	RPT #10	08-15-2024
9	RPT #10	08-15-2024
10	RPT #10	08-15-2024
11	RPT #10	08-15-2024
12	RPT #10	08-15-2024
13	RPT #10	08-15-2024
14	RPT #10	08-15-2024
15	RPT #10	08-15-2024
16	RPT #10	08-15-2024
17	RPT #10	08-15-2024
18	RPT #10	08-15-2024
19	RPT #10	08-15-2024
20	RPT #10	08-15-2024
21	RPT #10	08-15-2024
22	RPT #10	08-15-2024
23	RPT #10	08-15-2024
24	RPT #10	08-15-2024
25	RPT #10	08-15-2024
26	RPT #10	08-15-2024
27	RPT #10	08-15-2024
28	RPT #10	08-15-2024
29	RPT #10	08-15-2024
30	RPT #10	08-15-2024
31	RPT #10	08-15-2024
32	RPT #10	08-15-2024
33	RPT #10	08-15-2024
34	RPT #10	08-15-2024
35	RPT #10	08-15-2024
36	RPT #10	08-15-2024
37	RPT #10	08-15-2024
38	RPT #10	08-15-2024
39	RPT #10	08-15-2024
40	RPT #10	08-15-2024
41	RPT #10	08-15-2024
42	RPT #10	08-15-2024
43	RPT #10	08-15-2024
44	RPT #10	08-15-2024
45	RPT #10	08-15-2024
46	RPT #10	08-15-2024
47	RPT #10	08-15-2024
48	RPT #10	08-15-2024
49	RPT #10	08-15-2024
50	RPT #10	08-15-2024

PROJECT NUMBER: 20819  
ISSUE DATE: 03/19/2024

The Amble

ISSUE

IFC SET

SHEET TITLE

ELECTRICAL POWER  
UNIT PLAN - 3  
BEDROOM CORNER

SHEET NO.

E2.10





TOWN STAMP

359  
DESIGN

3030 OSAGE STREET  
DENVER, CO 80202  
720.622.5457

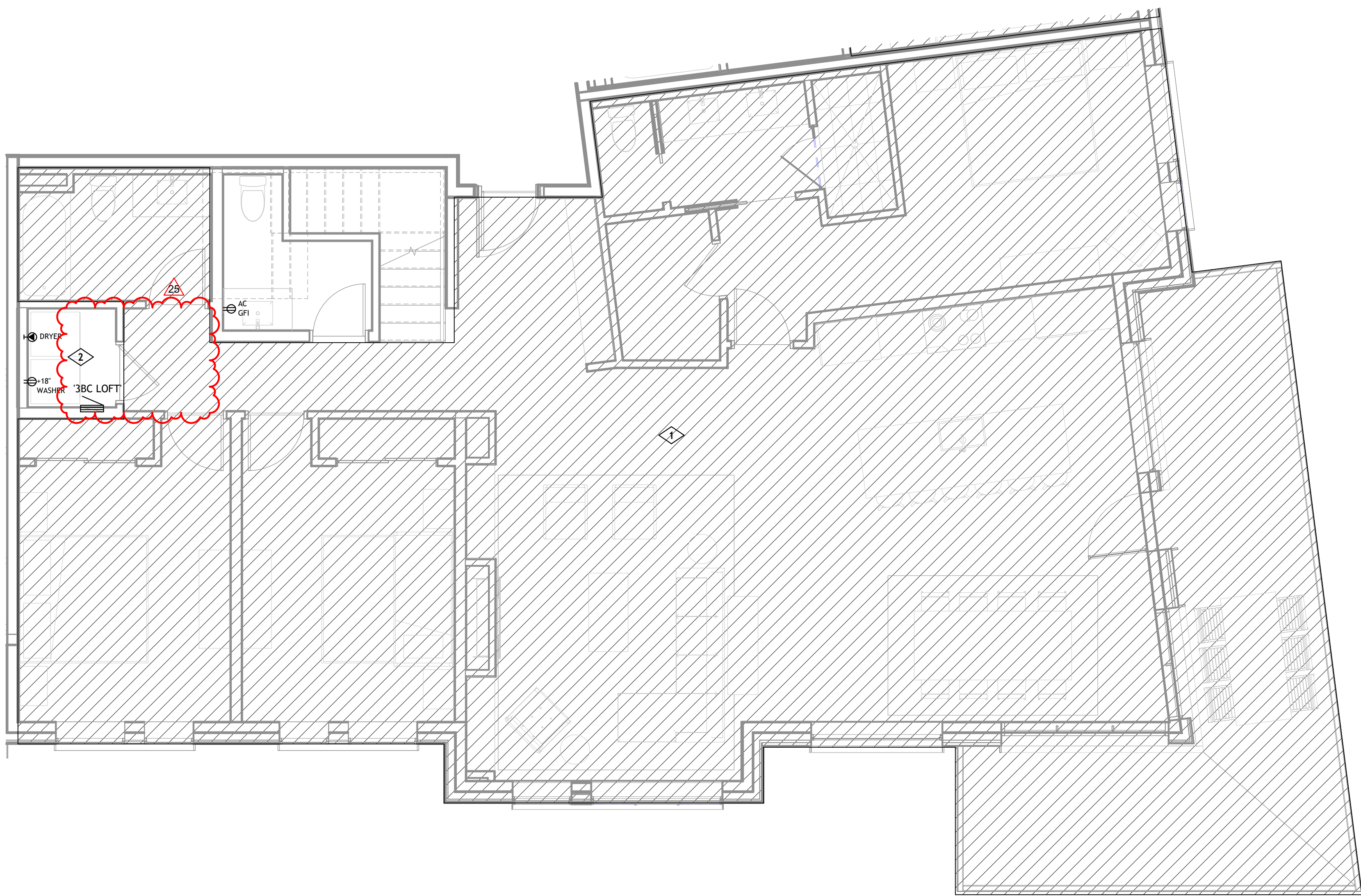
**AE DESIGN**  
Integrated Lighting, Technology  
and Electrical Solutions  
1900 Wazee Street Suite #205  
Denver, CO 80202 303.296.3034  
aedesign-inc.com Proj #6219.00

**The Amble**  
Steamboat Springs, CO

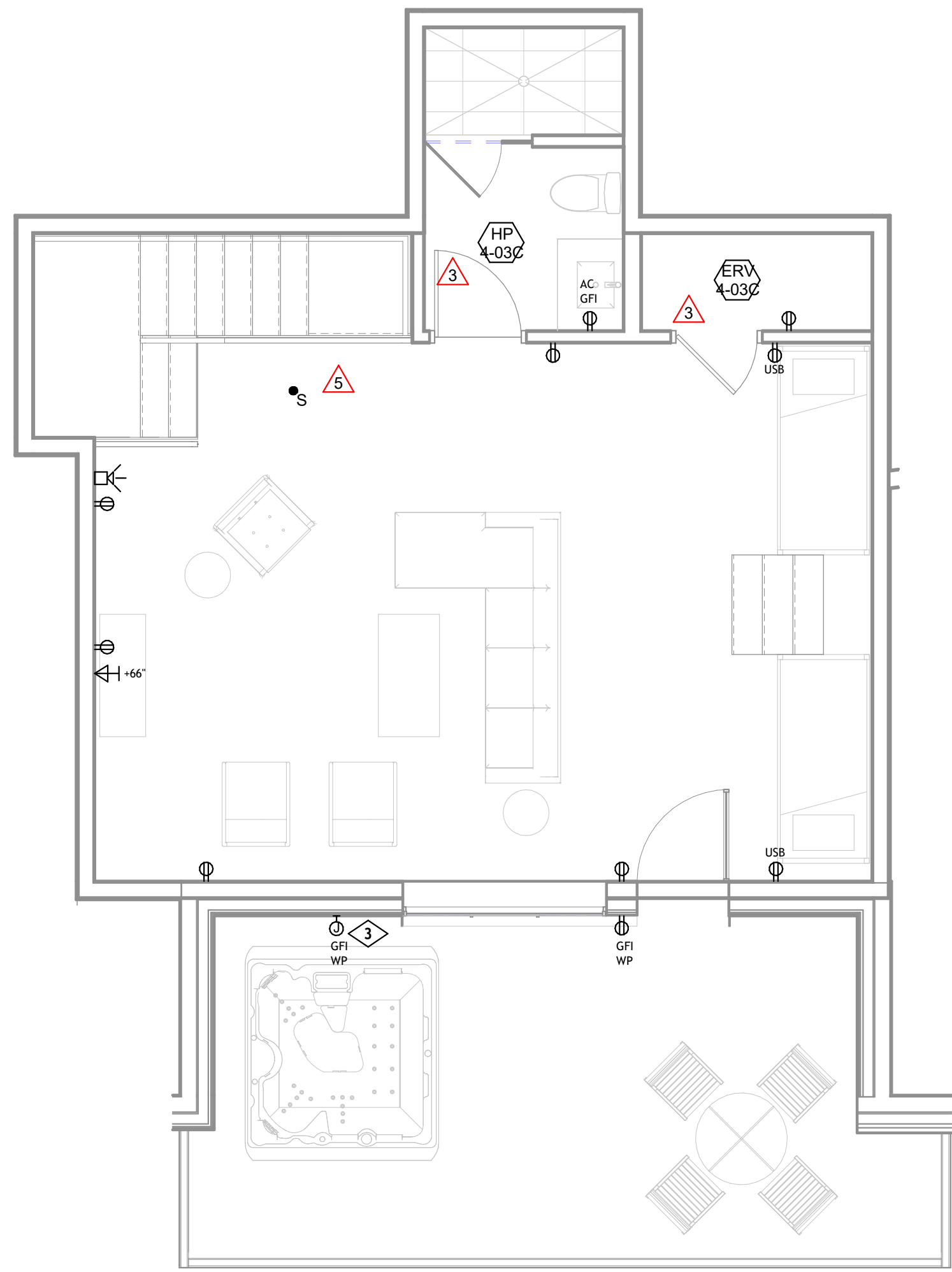
## DWELLING UNIT GENERAL NOTES

A. REFER TO DRAWING E2.00 FOR DWELLING UNIT GENERAL NOTES.

KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
1	REFER TO NON-LOFT TYPICAL UNIT PLAN FOR DEVICE LAYOUT IN HATCHED AREA.
2	EC SHALL PROVIDE NEMA 14-30R RECEPTACLE FED WITH 3#10, 1#10G, 3/4"C FOR 30A, 208V/1PH, 4-WIRE CORD AND PLUG DRYER POWER CONNECTION.
3	EC SHALL PROVIDE GFI CIRCUIT BREAKER WEATHERPROOF JUNCTION BOX FOR HOT TUB CONNECTION. RUN 2#4, 1#10G, 1"C. PROVIDE 60A/2P NEMA 3R LOCKABLE MAINTENANCE DISCONNECT SWITCH AND EMERGENCY SHUT-OFF AT LEAST 5-FT AWAY FROM EDGE OF HOT TUB FOR SHUTDOWN OF HOT TUB POWER AS REQUIRED PER NEC 680.



1 | ELECTRICAL POWER UNIT PLAN - 3 BEDROOM CORNER LOFT  
E2.11 | 1/4" = 1'-0"



2 | ELECTRICAL POWER UNIT PLAN - 3 BEDROOM CORNER DORMER  
E2.11 | 1/4" = 1'-0"

No.	Description	Date
1	PERMIT COMMENT	02/28/2024
2	REVISION	03/15/2024
3	IFC	04/15/2024
25	RFI #35	07/25/2024

PROJECT NUMBER: 20619  
ISSUE DATE: 03/15/2024

The Amble

IFC SET

SHEET TITLE:  
**ELECTRICAL POWER  
UNIT PLAN - 3  
BEDROOM CORNER  
LOFT**

SHEET NO.

E2.11





**The Amble**  
Steamboat Springs, CO

[illegible]

PROJECT NUMBER	20019
ISSUE DATE	03/15/2024

## The Amble

---

ISSUE

---

**IFC SET**

SHEET TITLE

**ELECTRICAL POWER  
UNIT PLAN - 4  
BEDROOM EAST LVL 1**

SHEET NO. \_\_\_\_\_

## E2.12

A. REFER TO DRAWING E2.00 FOR DWELLING UNIT GENERAL NOTES.

KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
1	PROVIDE HARDWIRED CONNECTION FOR 208V/1-PHASE, 4-WIRE, 40-AMP CIRCUIT AND 3Ø, 1Ø/Ø, 1°C TO RANGE. COORDINATE EXACT POWER CONNECTION REQUIREMENTS WITH FINAL EQUIPMENT SHOP DRAWINGS.
2	EC SHALL PROVIDE NEWA 14-30R RECEPTACLE FED WITH 3Ø/Ø, 1Ø/Ø, 3/4"C FOR 3ØA, 208V/1PH, 4-WIRE CORD AND 40-AMP POWER CONNECTION.
3	PROVIDE POP-UP STYLE IN-COUNTER TAMPER RESISTANT DUPLEX RECEPTACLE, UL LISTED FOR USE IN COUNTER TOPS. BASIS OF DESIGN: MCKET #PCS1038. CONNECT TO GFCI PROTECTED CIRCUIT AS REQUIRED. RECEPTACLE SHALL BE LOCATED AT BACK CABINET OF PULL-OUT TRASH COMPARTMENT. CONDUIT OR METAL-CLAD CABLE SHALL BE ROUTED TIGHT TO BACK OF CABINET SECTION AS REQUIRED TO ACCOMMODATE TRASH COMPARTMENT AND PROTECT WIRING. COORDINATE EXACT RECEPTACLE LOCATION IN COUNTER-TOP WITH ARCHITECT AND INTERIOR ELEVATIONS PRIOR TO ROUGH-IN.
4	PROVIDE HARDWIRED CONNECTION FOR 208V/1-PHASE, 4-WIRE, 40-AMP CIRCUIT AND 3Ø, 1Ø/Ø, 1°C TO DOUBLE OVEN. COORDINATE EXACT POWER CONNECTION REQUIREMENTS WITH FINAL EQUIPMENT SHOP DRAWINGS.
5	EC SHALL PROVIDE 120V, 2ØA CONNECTION FOR FIREPLACE. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGH-IN.
6	EC SHALL PROVIDE 120V, 2ØA CONNECTION FOR FIREPLACE FAN. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGH-IN.



1 | ELECTRICAL POWER UNIT PLAN - 4 BEDROOM EAST LVL 1

E2.12	$1/4'' = 1'-0''$
-------	------------------

3





1 | ELECTRICAL POWER UNIT PLAN - 4 BEDROOM EAST LVL 2-4  
E2.13 | 1/4" = 1'-0"

## DWELLING UNIT GENERAL NOTES

A. REFER TO DRAWING E2.00 FOR DWELLING UNIT GENERAL NOTES.

### KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
1	PROVIDE HARDWIRED CONNECTION FOR 208V/1-PHASE, 4-WIRE, 40-AMP CIRCUIT AND 3#8, 1#10G, 1" C TO RANGE. COORDINATE EXACT POWER CONNECTION REQUIREMENTS WITH FINAL EQUIPMENT SHOP DRAWINGS.
2	EC SHALL PROVIDE NEMA 14-30R RECEPTACLE FED WITH 3#10, 1#10G, 3/4" C FOR 30A, 208V/1PH, 4-WIRE CORD AND PLUG DRYER POWER CONNECTION.
3	PROVIDE POP-UP STYLE IN-COUNTER TAMPER RESISTANT DUPLEX RECEPTACLE, UL LISTED FOR USE IN COUNTER TOPS. BASIS OF DESIGN: MCKEY HPS103B. CONNECT TO GFCI PROTECTED CIRCUIT AS REQUIRED. RECEPTACLE SHALL BE LOCATED AT BACK CABINET OF PULL-OUT TRASH COMPARTMENT. CONDUIT OR METAL-CLAD CABLE SHALL BE ROUTED TIGHT TO BACK OF CABINET SECTION AS REQUIRED TO ACCOMMODATE TRASH COMPARTMENT AND PROTECT WIRING. COORDINATE EXACT RECEPTACLE LOCATION IN COUNTER-TOP WITH ARCHITECT AND INTERIOR ELEVATIONS PRIOR TO ROUGH-IN.
4	PROVIDE HARDWIRED CONNECTION FOR 208V/1-PHASE, 4-WIRE, 40-AMP CIRCUIT AND 3#8, 1#10G, 1" C TO DOUBLE OVEN. COORDINATE EXACT POWER CONNECTION REQUIREMENTS WITH FINAL EQUIPMENT SHOP DRAWINGS.
5	EC SHALL PROVIDE 120V, 20A CONNECTION FOR FIREPLACE. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGH-IN.
6	EC SHALL PROVIDE 120V, 20A CONNECTION FOR FIREPLACE FAN. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGH-IN.



**359**  
DESIGN

3631 OSAGE STREET  
DENVER, CO 80211  
726.622.5657



1900 Wazee Street Suite #205  
Denver, CO 80202 303.296.3034  
aedesign-inc.com Proj #A219.00

**The Amble**  
Steamboat Springs, CO

No.	Description	Date
1	GRAPH SUBMITTAL	01/22/2024
2	PERMIT COMMENT	02/09/2024
3	RESPONSE	
4	RPT #10	03/15/2024
5	RPT #10	04/12/2024
6	RPT #10	04/30/2024
7	RPT #10	05/10/2024
8	RPT #10	07/29/2024
9	RPT #10	08/29/2024
10	RPT #10	11/23/2024

PROJECT NUMBER: 20019  
ISSUE DATE: 03/19/2024

**The Amble**

ISSUE

**IFC SET**

SHEET TITLE

**ELECTRICAL POWER  
UNIT PLAN - 4  
BEDROOM EAST LVL 2-4**

SHEET NO.

**E2.13**

3





TOWN STAMP

359  
DESIGN

3030 OSAGE STREET  
DENVER, CO 80202  
720.622.5457

**AE DESIGN**  
Integrated Lighting, Technology  
and Electrical Solutions  
1900 Wazee Street Suite #205  
Denver, CO 80202 303.296.3034  
aedesign-inc.com Proj #6219.00

**The Amble**  
Steamboat Springs, CO

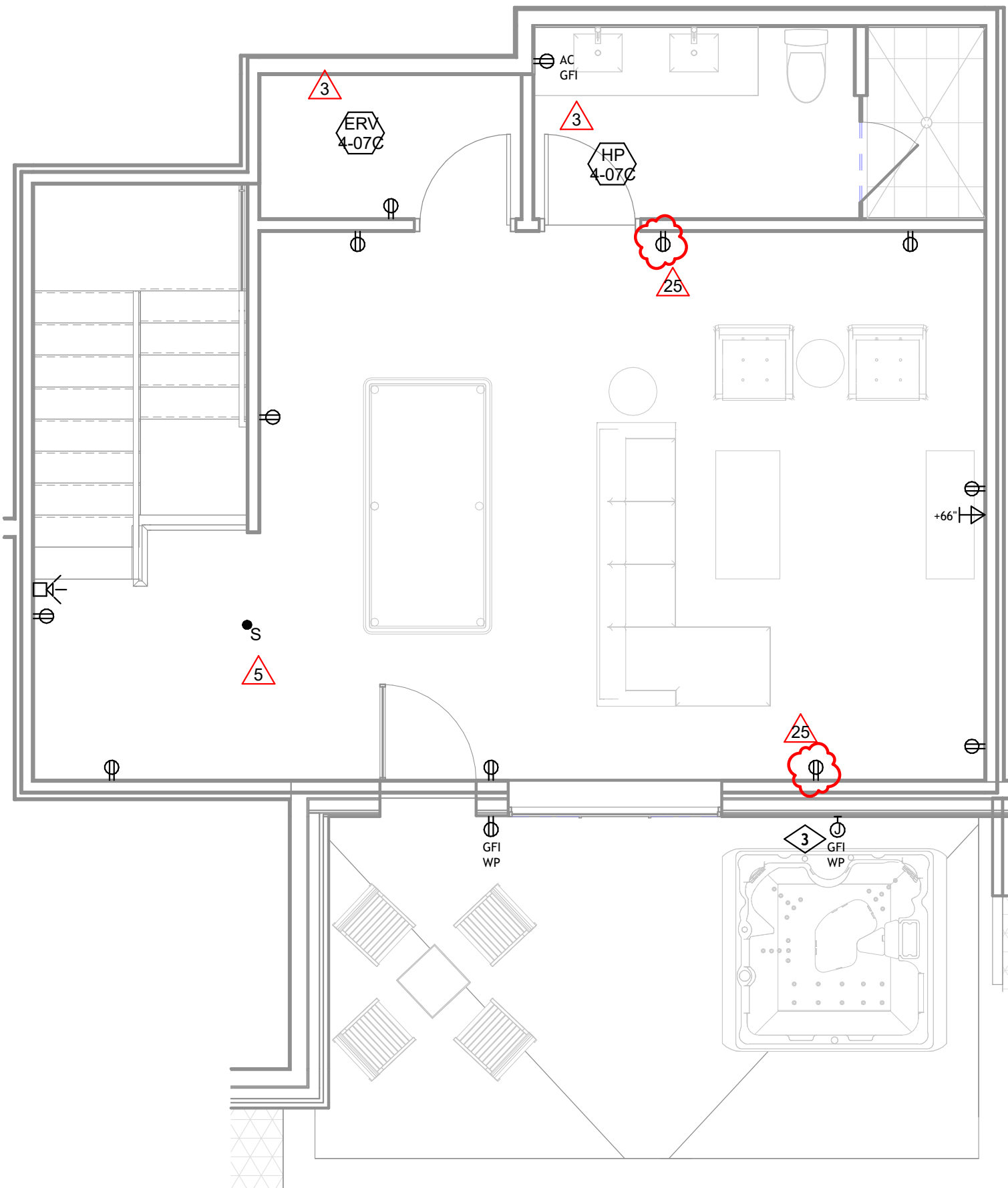
DWELLING UNIT GENERAL NOTES

A. REFER TO DRAWING E2.00 FOR DWELLING UNIT GENERAL NOTES.

KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
1	REFER TO NON-LOFT TYPICAL UNIT PLAN FOR DEVICE LAYOUT IN HATCHED AREA.
2	EC SHALL PROVIDE NEMA 14-30R RECEPTACLE FED WITH 3#10, 1#10G, 3/4" C FOR 30A, 208V/1PH, 4-WIRE CORD AND PLUG DRYER POWER CONNECTION.
3	EC SHALL PROVIDE GFI CIRCUIT BREAKER WEATHERPROOF JUNCTION BOX FOR HOT TUB CONNECTION. RUN 2#4, 1#10G, 1" C. PROVIDE 60A/2P NEMA 3R LOCKABLE MAINTENANCE DISCONNECT SWITCH AND EMERGENCY SHUT-OFF AT LEAST 5-FT AWAY FROM EDGE OF HOT TUB FOR SHUTDOWN OF HOT TUB POWER AS REQUIRED PER NEC 680.



1 | ELECTRICAL POWER UNIT PLAN - 4 BEDROOM EAST LOFT  
E2.14 | 1/4" = 1'-0"



2 | ELECTRICAL POWER UNIT PLAN - 4 BEDROOM EAST DORMER  
E2.14 | 1/4" = 1'-0"

No.	Description	Date
1	PERMIT COMMENT	02-08-2024
2	ISSUANCE	02-15-2024
3	ISSUANCE	04-15-2024
25	ISSUANCE	07-25-2024

PROJECT NUMBER 2019  
ISSUE DATE 03/15/2024

The Amble

ISSUE

IFC SET

SHEET TITLE

ELECTRICAL POWER  
UNIT PLAN - 4  
BEDROOM EAST LOFT

SHEET NO.

E2.14

3





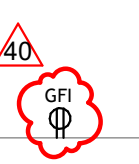
3633 OSAGE STREET  
DENVER, CO 80202  
720.512.3637



Steamboat Springs, CO

## DWELLING UNIT GENERAL NOTES

3	
---	--



E2.15	$1/4'' = 1'-0''$
-------	------------------

PROJECT NUMBER	20019
ISSUE DATE	03/15/2024

ISSUE

SHEET TITLE

SHEET NO. \_\_\_\_\_

## E2.15

3



A. REFER TO DRAWING E2.00 FOR DWELLING UNIT GENERAL NOTES.

KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
1	REFER TO NON-LOFT TYPICAL UNIT PLAN FOR DEVICE LAYOUT IN HATCHED AREA.
2	EC SHALL PROVIDE NEMA 14-30R RECEPTACLE FED WITH 3/10, 1/10G, 3/4" C FOR 30A, 208V/1PH, 4-WIRE CORD AND PLUG DRYER POWER CONNECTION.
3	EC SHALL PROVIDE GFI CIRCUIT BREAKER WEATHERPROOF JUNCTION BOX FOR HOT TUB CONNECTION. RUN 2#4, 1/10G, 1" C. PROVIDE 1/2" NEMA 3R LOCKABLE MAINTENANCE DISCONNECT SWITCH AND EMERGENCY SHUT-OFF AT LEAST 5-FT AWAY FROM EDGE OF HOT TUB FOR SHUTDOWN OF HOT TUB POWER AS REQUIRED PER NEC 680.



3633 OSAGE STREET  
DENVER, CO 80211  
720.512.3437



**Integrated Lighting, Technology  
and Electrical Solutions**  
100 Wazee Street Suite #205  
Denver, CO 80202 303.296.3034  
[design-inc.com](http://www.design-inc.com) Proj #:6219.00

**The Amble**  
Steamboat Springs, CO

[illegible]

PROJECT NUMBER	20019
EXP. DATE	03/15/2024

## The Amble

---

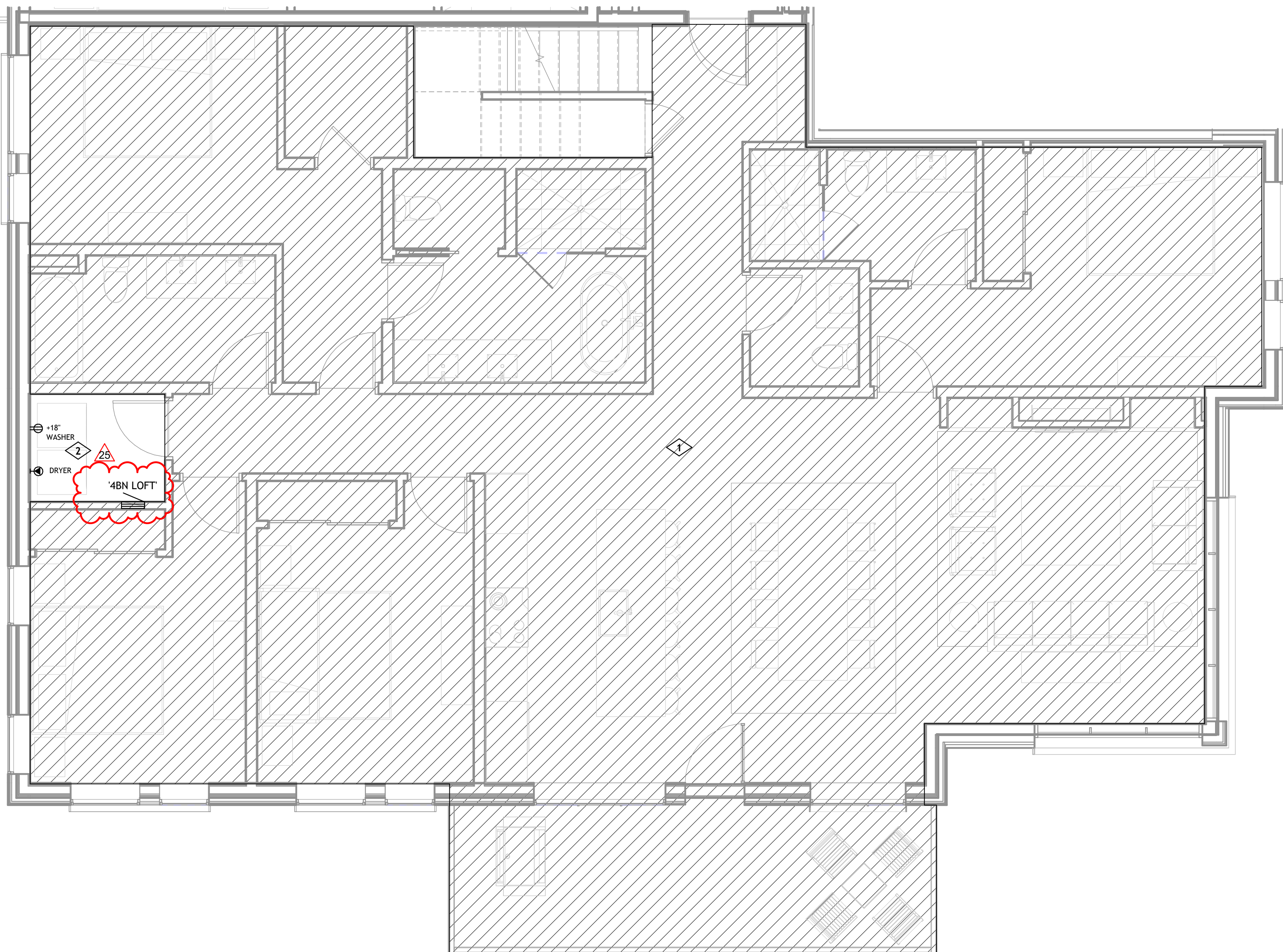
**FC SET**

NET TITLE

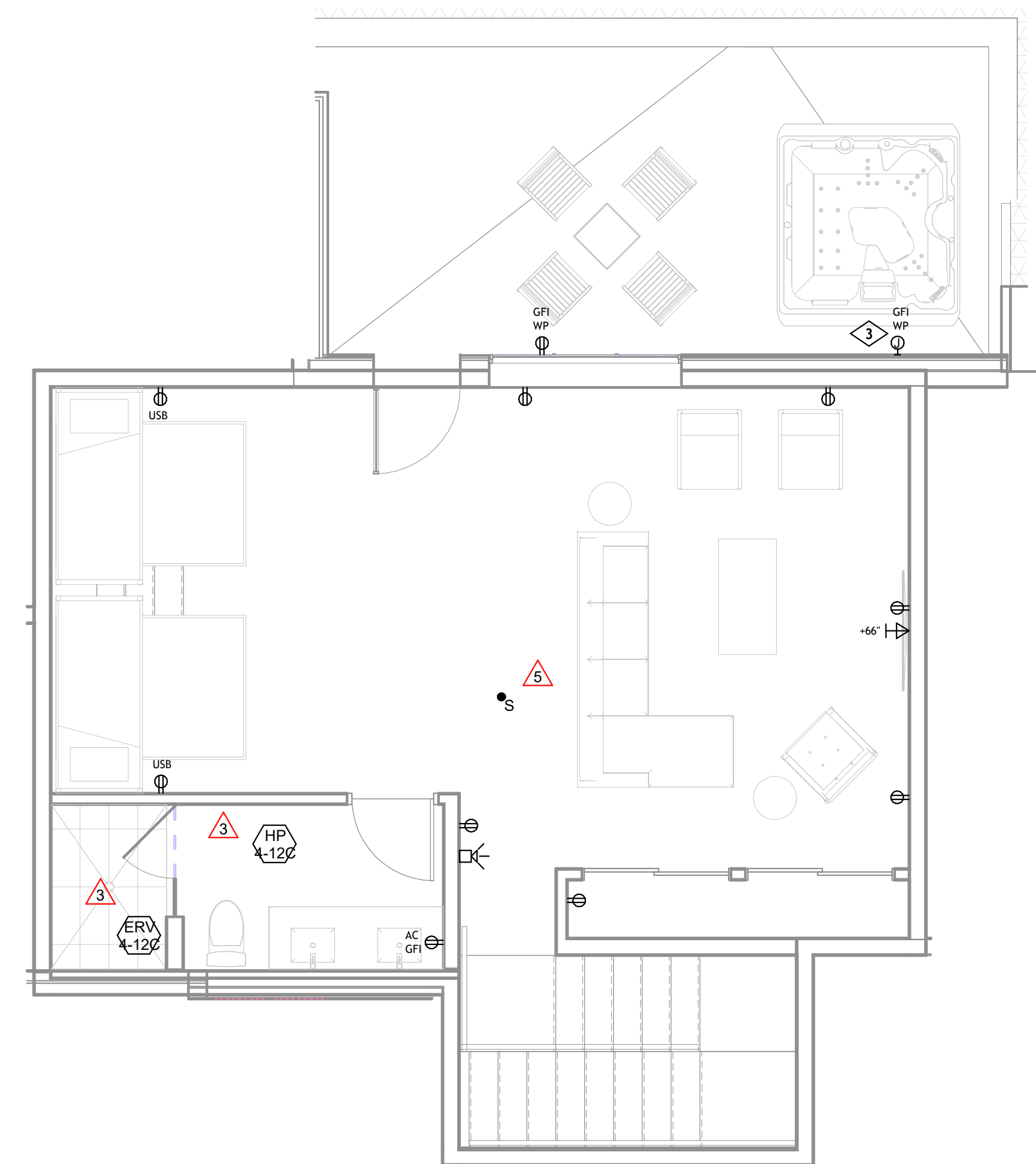
**ELECTRICAL POWER  
UNIT PLAN - 4  
BROOM NORTH LOFT**

TEST NO. \_\_\_\_\_

## E2.16



1	ELECTRICAL POWER UNIT PLAN - 4 BEDROOM NORTH LOFT
2.16	1/4" = 1'-0"



2	ELECTRICAL POWER UNIT PLAN - 4 BEDROOM NORTH DORMER
E2.16	1/4" = 1'-0"

3







No.	Description	Date
1	PERMIT COMMENT	02-08-2024
2	IFC	03-15-2024
3	RFI #132	02-29-2024
35	RFI #132.1	02-29-2024

PROJECT NUMBER 20019  
ISSUE DATE 03/15/2024

The Amble

ISSUE

IFC SET

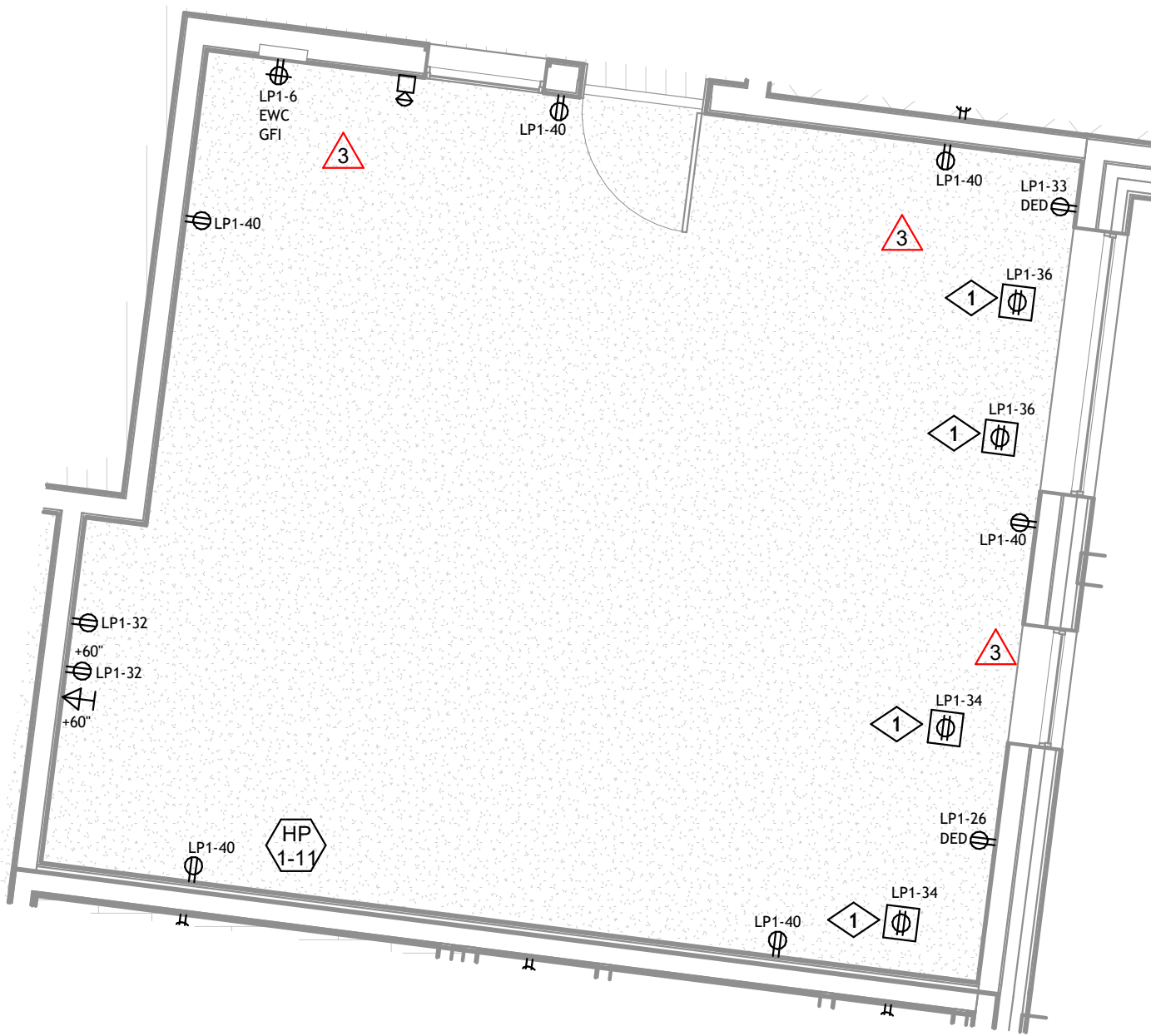
SHEET TITLE

ELECTRICAL ENLARGED PLANS

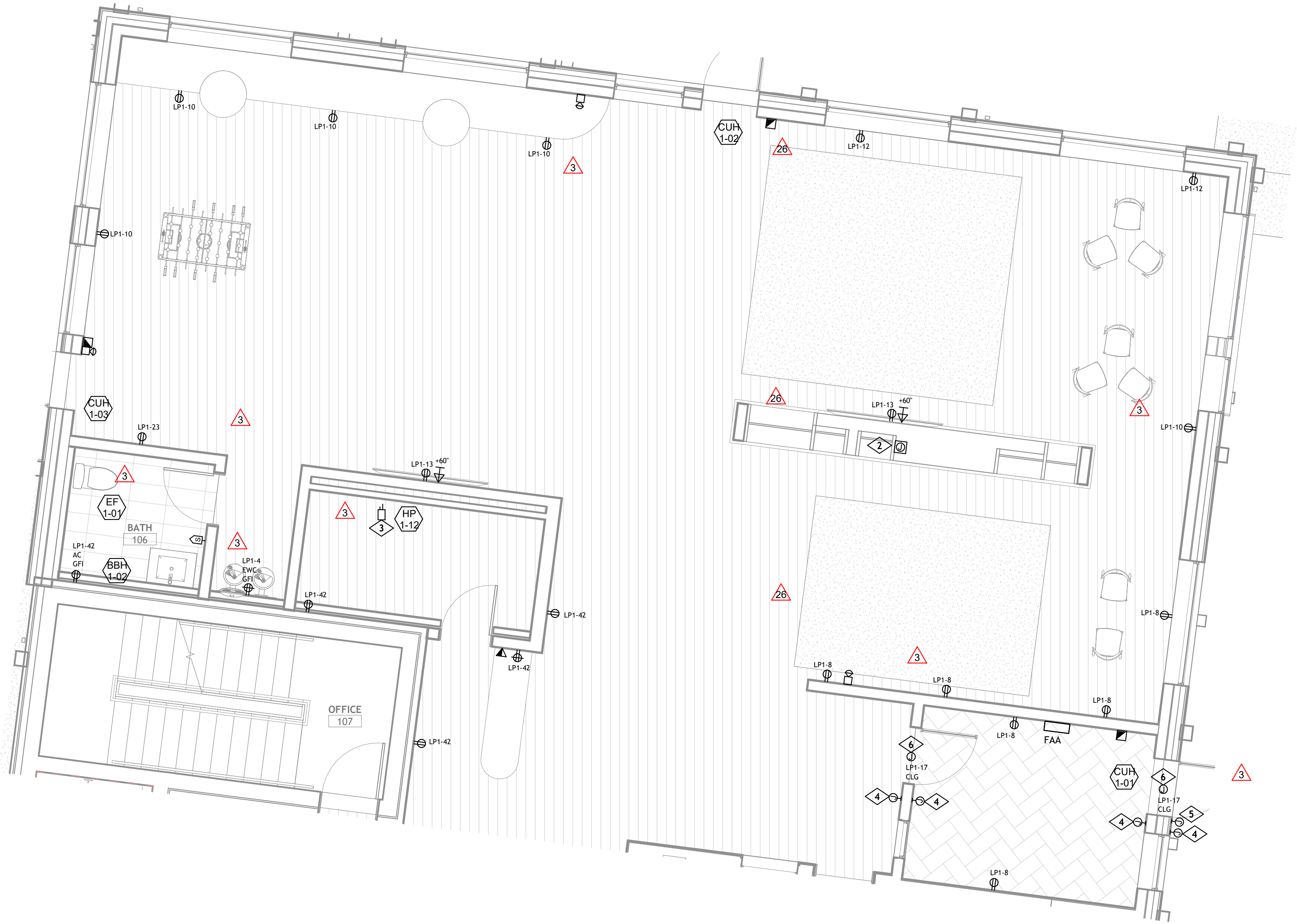
SHEET NO.

E2.18

KEY VALUE	KEYNOTE TEXT
1	PROVIDE 2 GANG FLOOR BOX WITH (1) DUPLEX RECEPTACLE, (1) DATA PROVISION, AND MOUNTING PLATES. PROVIDE BASIS OF DESIGN LEGRAND WIREMOLD EVOLUTION SERIES 4" FIRE-RATED POKE-THROUGH FLOOR BOX (#4ATCP2RXX) WITH DUPLEX RECEPTACLE COVER, OR APPROVED EQUIVALENT. CONTRACTOR SHALL CONFIRM COVER FINISH TYPE AND COLOR SELECTION WITH FINISHED FLOOR MATERIAL AND ARCHITECT PRIOR TO PURCHASING. EC SHALL PROVIDE 3/4"C FOR POWER AND 3/4"C FOR FUTURE DATA ROUTED IN-SLAB TO NEAREST ACCESSIBLE WALL. BOX AND CONDUITS IN AND OUT OF BOX SHALL ALL BE INSTALLED IN FLOOR SLAB PRIOR TO CONCRETE POUR. CONTRACTOR SHALL PROVIDE ALL FLOOR BOX COMPONENTS AND ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT AUDIO-VISUAL AND DATA DEVICE SUB-PLATE SELECTION AND INSTALLATION REQUIREMENTS WITH OWNER IT & AV CABLING INSTALLERS PRIOR TO ORDERING. PROVIDE BLANK PLATES AS NECESSARY. LOW-VOLTAGE CONDUITS SHALL BE PROVIDED WITH PULL-STRING AND BUSHINGS AT END OF CONDUIT. FIELD COORDINATE FINAL LOCATION WITH ARCHITECT AND STRUCTURAL PRIOR TO ROUGH-IN. DO NOT DIMENSION OFF ELECTRICAL PLANS. LOCATION AND CONNECTION REQUIREMENTS PRIOR TO INSTALLATION.
2	WALL MOUNTED JUNCTION BOX FOR ACCESSIBLE DOOR CONTROL PUSH PAD DEVICE INSTALLATION AND CABLING RACEWAY. CONTROL DEVICE FURNISHED BY OTHERS.
3	CONTRACTOR SHALL PROVIDE ALL COMPONENTS AS REQUIRED FOR CARD READER. COORDINATE SPECIFIC OPERATION REQUIREMENTS WITH SEPARATE VENDOR. CARD READER HEIGHT AND DOOR POSITION SWITCH LOCATION SHALL BE COORDINATED WITH OWNER AND ARCHITECT FOR FINAL LOCATION.
4	JUNCTION BOX FOR 120V POWER CONNECTION TO MOTORIZED AUTOMATED ACCESS DOOR OPERATOR. EC SHALL PROVIDE 3/4" CONDUIT AND MAKE ALL NECESSARY INTERCONNECTIONS BETWEEN JUNCTION BOX, OPERATOR MOTOR, AND PUSH PAD LOCATIONS PER MANUFACTURER'S REQUIREMENTS. COORDINATE EXACT LOCATIONS WITH APPROVED EQUIPMENT SHOP DRAWINGS.



2 | GYM ROOM ELECTRICAL POWER PLAN  
E2.18 | 1/4" = 1'-0"



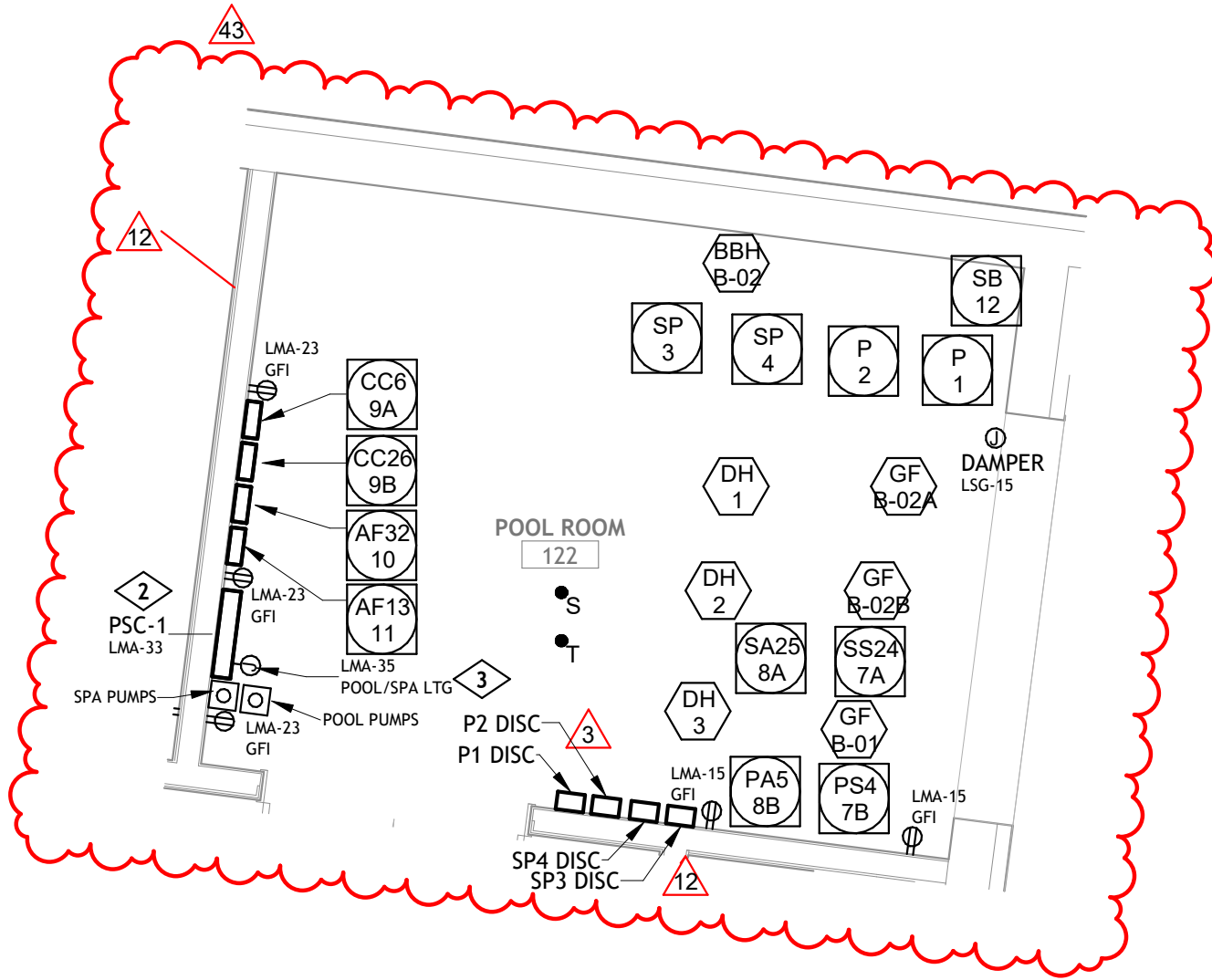
1 | LOUNGE AREA ELECTRICAL POWER PLAN  
E2.18 | 1/4" = 1'-0"



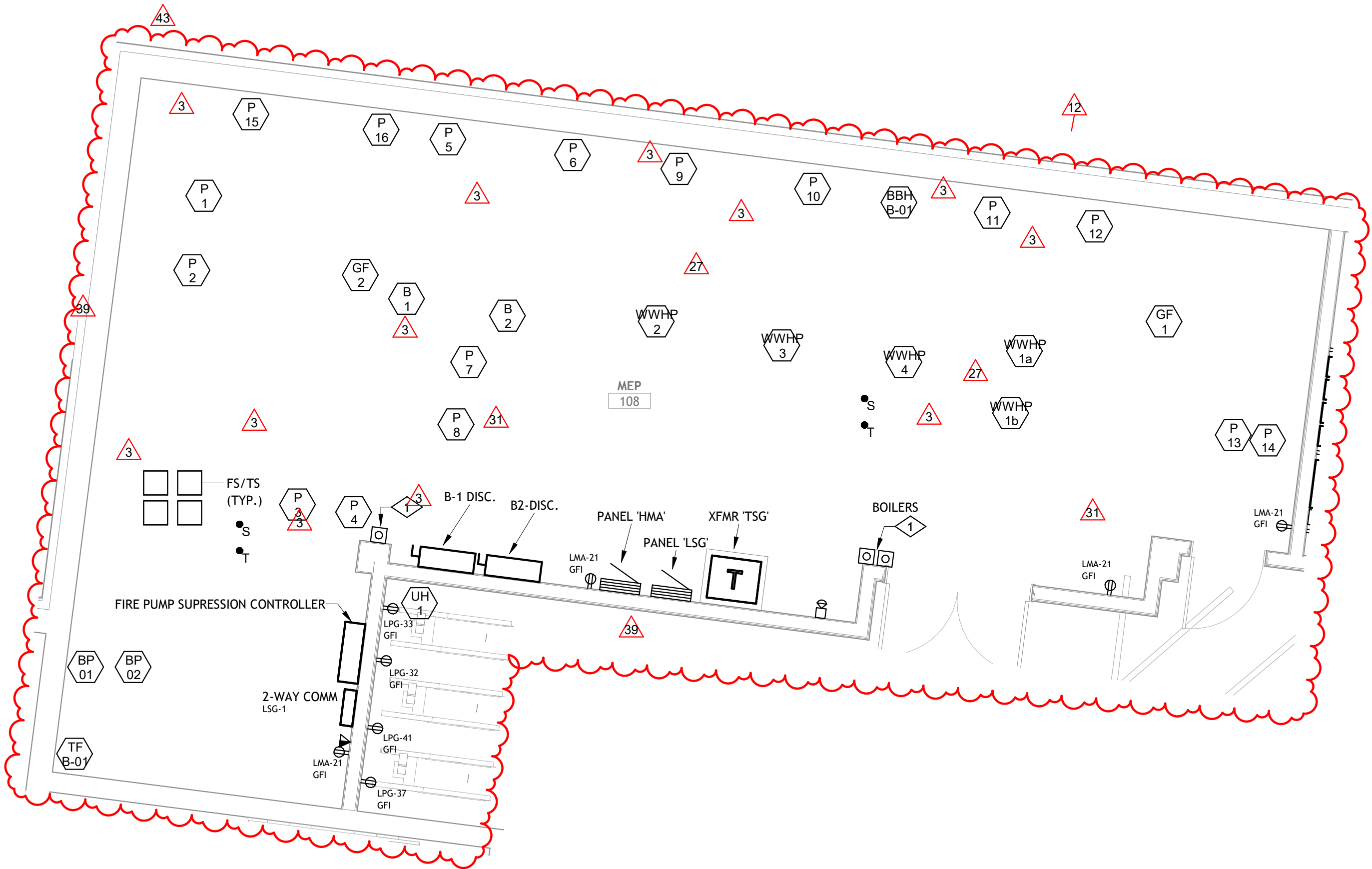
KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
1	PROVIDE EMERGENCY POWER OFF (EPO) SWITCHES FOR SHUT DOWN OF BOILER EQUIPMENT. COORDINATE EXACT LOCATION AND CONNECTION REQUIREMENTS WITH PLUMBING ENGINEERING DRAWINGS FROM TOWN OF CO SPRINGS.
2	EC SHALL PROVIDE 120V, 20A POWER CONNECTION TO POOL EQUIPMENT CONTROL PANEL 'PSC-1' FOR CONTROL PANEL POWER SUPPLY. CIRCUIT WITH 2#12, 1#12G, 3/4"C. COORDINATE ADDITIONAL LINE-VOLTAGE POWER REQUIRED TO BE CONNECTED THROUGH CONTROL PANEL WITH POOL CONTRACTOR PRIOR TO ROUGH-IN. REFER TO POOL SHOP DRAWINGS FOR EXACT CONTROL PANEL LOCATION AND POWER AND CONTROL WIRING REQUIREMENTS.
3	POOL AND SPA WET-NICHE LIGHTING POWER CIRCUIT SHALL BE CONNECTED THROUGH POOL/SPA CONTROL PANEL PSC-1 AS REQUIRED FOR CONTROL PER POOL SHOP DRAWINGS. REFER TO FIRST FLOOR ELECTRICAL POWER PLAN FOR WET-NICHE POOL LIGHT LOCATIONS. LIGHT NICHE SHALL BE FURNISHED AND INSTALLED BY POOL CONTRACTOR. NICHE SHALL BE GROUNDED/BONDED BY THE ELECTRICAL CONTRACTOR. WET NICHE LUMINAIRE, POWER SUPPLY TRANSFORMER, AND LOW-VOLTAGE WIRING SHALL BE FURNISHED AND INSTALLED BY THE POOL CONTRACTOR. WATERTIGHT CONDUIT, JUNCTION BOXES, LINE-VOLTAGE WIRING, AND GFCI PROTECTION SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH NEC ARTICLE 680.23(B).

## POOL EQUIPMENT NOTES

- A PROVIDE 120V CONTROL WIRING AS REQUIRED PER POOL EQUIPMENT SCHEDULE ON POOL DRAWINGS.
- B REFER TO POOL DRAWINGS FOR EQUIPMENT LOCATIONS.
- C FIELD VERIFY ALL EQUIPMENT LOADS, VOLTAGES, AND RECOMMENDED FUSE SIZING PRIOR TO ENERGIZING CIRCUIT.
- D THE ELECTRICAL CONTRACTOR SHALL REVIEW ALL AQUATICS PLANS AND PROVIDE ALL WORK AS CALLED OUT TO BE COMPLETED BY THE ELECTRICAL CONTRACTOR. COORDINATE WITH POOL CONTRACTOR.
- E ALL DISCONNECTS SHALL BE NEMA 3R RATED WITH NON-METALLIC ENCLOSURE AND STAINLESS STEEL HARDWARE FOR CORROSION RESISTANCE.
- F MOTORS REQUIRING STARTERS SHALL UTILIZE COMBINATION STARTER/DISCONNECT. STARTERS SHALL BE NON-REVERSING WITH NEMA SIZE AS LISTED. ALL STARTERS SHALL UTILIZE CIRCUIT BREAKERS FOR OVERCURRENT PROTECTION. ELECTRICAL CONTRACTOR TO VERIFY ALL PUMPS AND MOTORS REQUIRING STARTERS TO BE PROVIDED BY EC PRIOR TO COMMENCING WORK AND ORDERING MOTOR STARTERS.
- G PROVIDE FLEXIBLE CONDUIT CONNECTION AT ALL PUMP MOTORS, MINIMUM 18" IN LENGTH.
- H WHERE MOTOR IS WITHIN SIGHT (PER THE DEFINITION OF THE NEC) OF THE MCC, THE INDICATED DISCONNECT SWITCH IS NOT REQUIRED.
- I ALL MOTORS GREATER THAN 7.5 HORSEPOWER ARE TO BE PROVIDED WITH THREE PHASE PROTECTION.
- J ELECTRICAL CONTRACTOR SHALL REFERENCE POOL WIRING DIAGRAMS AND SEQUENCE OF OPERATIONS FOR INTERLOCKS PROVIDED ON THE AQUATIC DESIGNERS DRAWINGS.
- K ALL POOL, SPA AND/OR HOT-TUB ELECTRICAL RECEPTACLES, DEVICES, LIGHTING, UNDERWATER LUMINAIRES, PUMPS/MOTORS, AND EQUIPMENT SHALL BE PROVIDED WITH GFCI PROTECTION AND SPFGI PROTECTION IN ACCORDANCE WITH NEC ARTICLE 680 REQUIREMENTS, INCLUDING BUT NOT LIMITED TO SECTIONS: 680.5, 680.12, 680.21 (C), 680.22(A)(4), 680.22 (A)(4), 680.22(B)(4), AND 680.23(A)(3), WHERE NOT PROVIDED BY THE POOL CONTRACTOR, THE ELECTRICAL CONTRACTOR SHALL PROVIDE VARIABLE FREQUENCY DRIVE AS INDICATED IN THE POOL EQUIPMENT SCHEDULE PER THE FOLLOWING SPECIFICATIONS.
- a. MANUFACTURER SHALL BE: ABB, ALLEN BRADLEY, OR APPROVED EQUAL.
- b. VFD UNIT ENCLOSURE SHALL BE NEMA-12 RATED.
- c. UNIT SHALL BE PROVIDED WITH MANUAL SPEED ADJUSTMENT VIA KEYPAD OR DIAL MOUNTED ON THE ENCLOSURES EXTERIOR.
- d. UNIT SHALL BE PROVIDED WITH REQUIRED NUMBER OF OUTPUTS FOR CONNECTION TO EXTERNAL RELAY(S) AND EQUIPMENT.
- e. UNIT SHALL BE PROVIDED WITH MANUFACTURER'S PERFORMED FIELD TEST OF DRIVE.
- f. UNIT SHALL BE PROVIDED WITH OWNER OPERATIONAL AND MAINTENANCE TRAINING OF DEVICE.
- g. UNIT SHALL BE SUITABLE FOR OPERATING ENVIRONMENT FROM 0 DEGREES TO 40 DEGREES CELCIUS, AND HUMIDITY UP TO 90% NON-CONDENSING.
- h. PROVIDE VFD WITH CAPABILITY OF 30 SECOND RAMP UP TO FULL SPEED AND 5 SECOND RAMP DOWN FROM FULL SPEED TO ZERO FOR ALL APPLICATIONS USING FILTRATION SYSTEM WITH REGENERATIVE MEDIA FILTER. COORDINATE LOCATIONS WITH POOL CONTRACTOR.
- i. PROVIDE VFD WITH REQUIRED NUMBER OF OUTPUTS FOR CONNECTION TO ALL EXTERNAL RELAY(S) AND EQUIPMENT AS REQUIRED BY THE POOL CONTRACTOR'S DRAWINGS.
- L PROVIDE CLEARLY LABELED EMERGENCY SHUTOFF BUTTONS FOR THE PURPOSE OF STOPPING THE MOTORS THAT PROVIDE POWER TO ALL NON-FILTRATION PUMPS PER POOL ENGINEER. EMERGENCY SHUTOFF BUTTION LOCATIONS SHALL BE COORDINATED WITH THE OWNER OR THE OWNER'S RISK MANAGEMENT CONSULTANT.
- M PROVIDE CLEARLY LABELED EMERGENCY POWER OFF (EPO) SWITCH(ES) FOR EMERGENCY SHUTDOWN OF ALL POOL WATER HEATER/BOILER SYSTEMS AS REQUIRED BY CODE. EPO SWITCH LOCATIONS SHALL BE AT EACH EGRESS DOOR LEADING FROM THE ROOM HOUSING THE POOL WATER HEATER SYSTEM(S) AND SHALL BE COORDINATED WITH THE POOL ENGINEER AND OWNER'S RISK MANAGEMENT CONSULTANT.



1 | ELECTRICAL ENLARGED POOL ROOM  
E2.19 | 1/4" = 1'-0"



2 | ELECTRICAL ENLARGED MEP ROOM  
E2.19 | 1/4" = 1'-0"



359  
DESIGN

AE DESIGN  
Integrated Lighting, Technology  
and Electrical Solutions  
1900 Wazee Street Suite #205  
Denver, CO 80202 303.296.3034  
aesign-inc.com Proj #a219.00

The Amble  
Steamboat Springs, CO

REVISIONS		
No.	Description	Date
1	ISSUE SUBMITTAL	07/22/2024
2	PROBING COMMENT	02/04/2024
3	RESPONSE	
12	RPT #E2.1	08/01/2024
13	RPT #E2.1	08/01/2024
17	RPT #E2.1	08/01/2024
18	RPT #E2.1	08/01/2024
19	RPT #E2.1	08/01/2024
20	RPT #E2.1	08/01/2024
21	RPT #E2.1	08/01/2024
22	RPT #E2.1	08/01/2024
23	RPT #E2.1	08/01/2024
24	RPT #E2.1	08/01/2024
25	RPT #E2.1	08/01/2024
26	RPT #E2.1	08/01/2024
27	RPT #E2.1	08/01/2024
28	RPT #E2.1	08/01/2024
29	RPT #E2.1	08/01/2024
30	RPT #E2.1	08/01/2024
31	RPT #E2.1	08/01/2024
32	RPT #E2.1	08/01/2024
33	RPT #E2.1	08/01/2024
34	RPT #E2.1	08/01/2024
35	RPT #E2.1	08/01/2024
36	RPT #E2.1	08/01/2024
37	RPT #E2.1	08/01/2024
38	RPT #E2.1	08/01/2024
39	RPT #E2.1	08/01/2024
40	RPT #E2.1	08/01/2024
41	RPT #E2.1	08/01/2024
42	RPT #E2.1	08/01/2024
43	RPT #E2.1	08/01/2024
44	RPT #E2.1	08/01/2024
45	RPT #E2.1	08/01/2024
46	RPT #E2.1	08/01/2024
47	RPT #E2.1	08/01/2024
48	RPT #E2.1	08/01/2024
49	RPT #E2.1	08/01/2024
50	RPT #E2.1	08/01/2024
51	RPT #E2.1	08/01/2024
52	RPT #E2.1	08/01/2024
53	RPT #E2.1	08/01/2024
54	RPT #E2.1	08/01/2024
55	RPT #E2.1	08/01/2024
56	RPT #E2.1	08/01/2024
57	RPT #E2.1	08/01/2024
58	RPT #E2.1	08/01/2024
59	RPT #E2.1	08/01/2024
60	RPT #E2.1	08/01/2024
61	RPT #E2.1	08/01/2024
62	RPT #E2.1	08/01/2024
63	RPT #E2.1	08/01/2024
64	RPT #E2.1	08/01/2024
65	RPT #E2.1	08/01/2024
66	RPT #E2.1	08/01/2024
67	RPT #E2.1	08/01/2024
68	RPT #E2.1	08/01/2024
69	RPT #E2.1	08/01/2024
70	RPT #E2.1	08/01/2024
71	RPT #E2.1	08/01/2024
72	RPT #E2.1	08/01/2024
73	RPT #E2.1	08/01/2024
74	RPT #E2.1	08/01/2024
75	RPT #E2.1	08/01/2024
76	RPT #E2.1	08/01/2024
77	RPT #E2.1	08/01/2024
78	RPT #E2.1	08/01/2024
79	RPT #E2.1	08/01/2024
80	RPT #E2.1	08/01/2024
81	RPT #E2.1	08/01/2024
82	RPT #E2.1	08/01/2024
83	RPT #E2.1	08/01/2024
84	RPT #E2.1	08/01/2024
85	RPT #E2.1	08/01/2024
86	RPT #E2.1	08/01/2024
87	RPT #E2.1	08/01/2024
88	RPT #E2.1	08/01/2024
89	RPT #E2.1	08/01/2024
90	RPT #E2.1	08/01/2024
91	RPT #E2.1	08/01/2024
92	RPT #E2.1	08/01/2024
93	RPT #E2.1	08/01/2024
94	RPT #E2.1	08/01/2024
95	RPT #E2.1	08/01/2024
96	RPT #E2.1	08/01/2024
97	RPT #E2.1	08/01/2024
98	RPT #E2.1	08/01/2024
99	RPT #E2.1	08/01/2024
100	RPT #E2.1	08/01/2024

PROJECT NUMBER: 20019  
ISSUE DATE: 03/19/2024

The Amble

IFC SET

IFC SET

IFC SET

IFC SET

ELECTRICAL ENLARGED PLANS

SHEET NO.

E2.19





**The Amble**  
Steamboat Springs, CO

[illegible]

PROJECT NUMBER	20019
ISSUE DATE	03/15/2024

### The Amble

**IFC SET**

SHEET TITLE

**ELECTRICAL LIGHTING  
CIRCUITING PLAN -  
LEVEL 00**

SHEET NO. \_\_\_\_\_

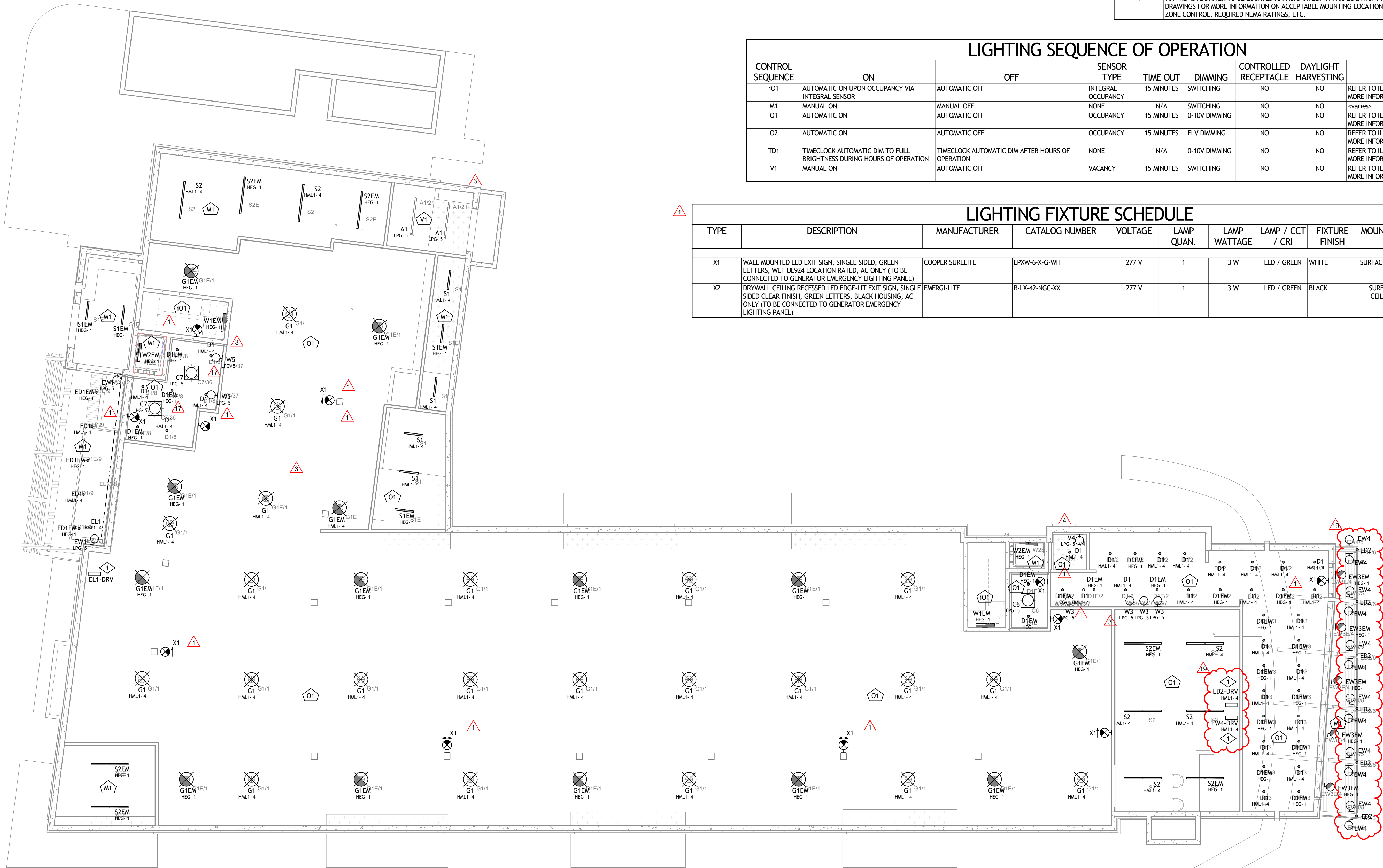
**E3.00**

LIGHTING GENERAL NOTES	
A.	LIGHTING IS SHOWN FOR CIRCUITING PURPOSES ONLY. REFERENCE ILC "EL" SERIES SHEETS FOR MORE INFORMATION ON LIGHT FIXTURES, LIGHTING CONTROLS, ETC.
B.	CIRCUIT ALL EXIT SIGNS TO NEAREST UN-SWITCHED 277-VOLT EMERGENCY LIGHTING CIRCUIT (ON PANEL HEG OR HE3 AS APPLICABLE). EXIT SIGN POWER CONNECTIONS SHALL BE CONNECTED AHEAD OF ALL SWITCH LEGS AND CONTROLS.

KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
1	96W REMOTE DRIVER TO BE LOCATED APPROXIMATELY IN THIS LOCATION. REFER TO "EL" SERIES DRAWINGS FOR MORE INFORMATION ON ACCEPTABLE MOUNTING LOCATIONS, QUANTITIES, FIXTURE ZONE CONTROL, REQUIRED NEMA RATINGS, ETC.

LIGHTING SEQUENCE OF OPERATION								
CONTROL SEQUENCE	ON	OFF	SENSOR TYPE	TIME OUT	DIMMING	CONTROLLED RECEPTACLE	DAYLIGHT HARVESTING	NOTES
I01	AUTOMATIC ON UPON OCCUPANCY VIA INTEGRAL SENSOR	AUTOMATIC OFF	INTEGRAL OCCUPANCY	15 MINUTES	SWITCHING	NO	NO	REFER TO ILC 'EL' SERIES DRAWINGS FOR MORE INFORMATION
M1	MANUAL ON	MANUAL OFF	NONE	N/A	SWITCHING	NO	NO	<varies>
O1	AUTOMATIC ON	AUTOMATIC OFF	OCCUPANCY	15 MINUTES	0-10V DIMMING	NO	NO	REFER TO ILC 'EL' SERIES DRAWINGS FOR MORE INFORMATION
O2	AUTOMATIC ON	AUTOMATIC OFF	OCCUPANCY	15 MINUTES	ELV DIMMING	NO	NO	REFER TO ILC 'EL' SERIES DRAWINGS FOR MORE INFORMATION
TD1	TIMECLOCK AUTOMATIC DIM TO FULL BRIGHTNESS DURING HOURS OF OPERATION	TIMECLOCK AUTOMATIC DIM AFTER HOURS OF OPERATION	NONE	N/A	0-10V DIMMING	NO	NO	REFER TO ILC 'EL' SERIES DRAWINGS FOR MORE INFORMATION
V1	MANUAL ON	AUTOMATIC OFF	VACANCY	15 MINUTES	SWITCHING	NO	NO	REFER TO ILC 'EL' SERIES DRAWINGS FOR MORE INFORMATION

LIGHTING FIXTURE SCHEDULE											
TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	VOLTAGE	LAMP QUAN.	LAMP WATTAGE	LAMP / CCT / CRI	FIXTURE FINISH	MOUNTING	BOF/RFD/OFH	
X1	WALL MOUNTED LED EXIT SIGN, SINGLE SIDED, GREEN LETTERS, WET UL924 LOCATION RATED, AC ONLY (TO BE CONNECTED TO GENERATOR EMERGENCY LIGHTING PANEL)	COOPER SURELITE	LPXW-6-X-G-WH	277 V	1	3 W	LED / GREEN	WHITE	SURFACE WALL	BOF 6" ABOVE DOOR FRAME	
X2	DRYWALL CEILING RECESSED LED EDGE-LIT EXIT SIGN, SINGLE SIDED CLEAR FINISH, GREEN LETTERS, BLACK HOUSING, AC ONLY (TO BE CONNECTED TO GENERATOR EMERGENCY LIGHTING PANEL)	EMERGI-LITE	B-LX-42-HGC-XX	277 V	1	3 W	LED / GREEN	BLACK	SURFACE CEILING	BOF 6" ABOVE DOOR FRAME	



1	ELECTRICAL LIGHTING CIRCUITING PLAN - LEVEL 00
E3.00	3/32" = 1'-0"

**THEORY OF THE PROPOSAL**



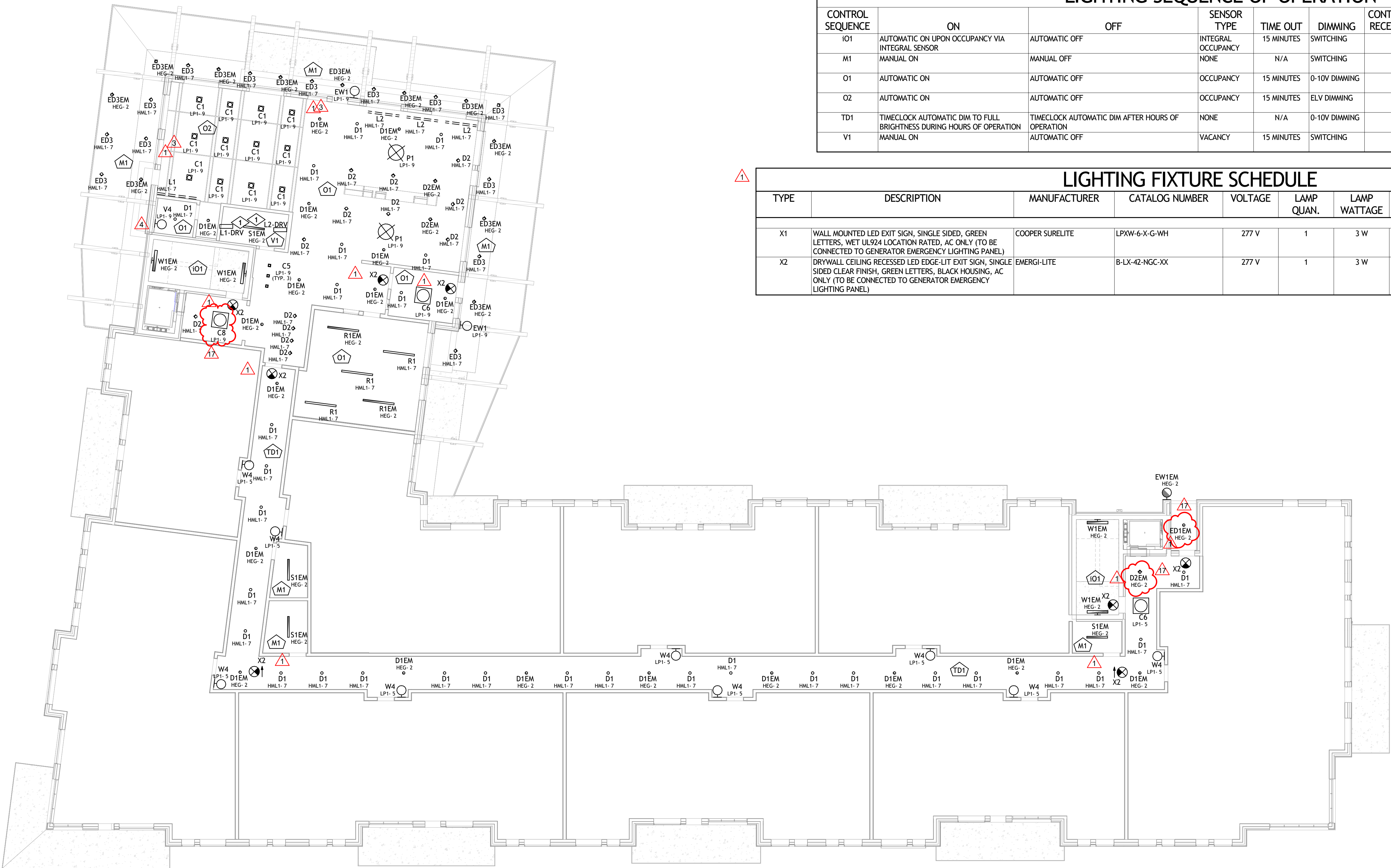


**The Amble**  
Steamboat Springs, CO

KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
1	96W REMOTE DRIVER TO BE LOCATED APPROXIMATELY IN THIS LOCATION. REFER TO "EL" SERIES DRAWINGS FOR MORE INFORMATION ON ACCEPTABLE MOUNTING LOCATIONS, QUANTITIES, FIXTURE ZONE CONTROL, REQUIRED NEMA RATINGS, ETC.

LIGHTING SEQUENCE OF OPERATION								
CONTROL SEQUENCE	ON	OFF	SENSOR TYPE	TIME OUT	DIMMING	CONTROLLED RECEPTACLE	DAYLIGHT HARVESTING	NOTES
I01	AUTOMATIC ON UPON OCCUPANCY VIA INTEGRAL SENSOR	AUTOMATIC OFF	INTEGRAL OCCUPANCY	15 MINUTES	SWITCHING	NO	NO	REFER TO ILC 'EL' SERIES DRAWINGS FOR MORE INFORMATION
M1	MANUAL ON	MANUAL OFF	NONE	N/A	SWITCHING	NO	NO	REFER TO ILC 'EL' SERIES DRAWINGS FOR MORE INFORMATION
O1	AUTOMATIC ON	AUTOMATIC OFF	OCCUPANCY	15 MINUTES	0-10V DIMMING	NO	NO	REFER TO ILC 'EL' SERIES DRAWINGS FOR MORE INFORMATION
O2	AUTOMATIC ON	AUTOMATIC OFF	OCCUPANCY	15 MINUTES	ELV DIMMING	NO	NO	REFER TO ILC 'EL' SERIES DRAWINGS FOR MORE INFORMATION
TD1	TIMECLOCK AUTOMATIC DIM TO FULL BRIGHTNESS DURING HOURS OF OPERATION	TIMECLOCK AUTOMATIC DIM AFTER HOURS OF OPERATION	NONE	N/A	0-10V DIMMING	NO	NO	REFER TO ILC 'EL' SERIES DRAWINGS FOR MORE INFORMATION
V1	MANUAL ON	AUTOMATIC OFF	VACANCY	15 MINUTES	SWITCHING	NO	NO	REFER TO ILC 'EL' SERIES DRAWINGS FOR MORE INFORMATION

LIGHTING FIXTURE SCHEDULE										
TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	VOLTAGE	LAMP QUAN.	LAMP WATTAGE	LAMP / CCT / CRI	FIXTURE FINISH	MOUNTING	BOF/RFD/OFH
X1	WALL MOUNTED LED EXIT SIGN, SINGLE SIDED, GREEN LETTERS, WET UL924 LOCATION RATED, AC ONLY (TO BE CONNECTED TO GENERATOR EMERGENCY LIGHTING PANEL)	COOPER SURELITE	LPKW-6-X-G-WH	277 V	1	3 W	LED / GREEN	WHITE	SURFACE WALL	BOF 6" ABOVE DOOR FRAME
X2	DRYWALL CEILING RECESSED LED EDGE-LIT EXIT SIGN, SINGLE SIDED CLEAR FINISH, GREEN LETTERS, BLACK HOUSING, AC ONLY (TO BE CONNECTED TO GENERATOR EMERGENCY LIGHTING PANEL)	EMERGI-LITE	B-LX-42-NGC-XX	277 V	1	3 W	LED / GREEN	BLACK	SURFACE CEILING	BOF 6" ABOVE DOOR FRAME

[illegible]

PROJECT NUMBER	20019
ISSUE DATE	03/15/2024

## The Amble

ISSUE

**FC SET**

SHEET TITLE

## ELECTRICAL LIGHTING CIRCUITING PLAN - LEVEL 01

SHEET NO.

## E3.01



# 1 | ELECTRICAL LIGHTING CIRCUITING PLAN - LEVEL 01

E3.01	$3/32'' = 1'-0''$
-------	-------------------

[illegible]





**The Amble**  
Steamboat Springs, CO

[illegible]

PROJECT NUMBER	20019
ISSUE DATE	03/15/2024

## The Amble

---

ISSUE

**IFC SET**

**ELECTRICAL LIGHTING  
CIRCUITING PLAN -  
LEVEL 02**

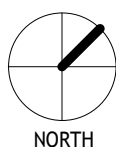
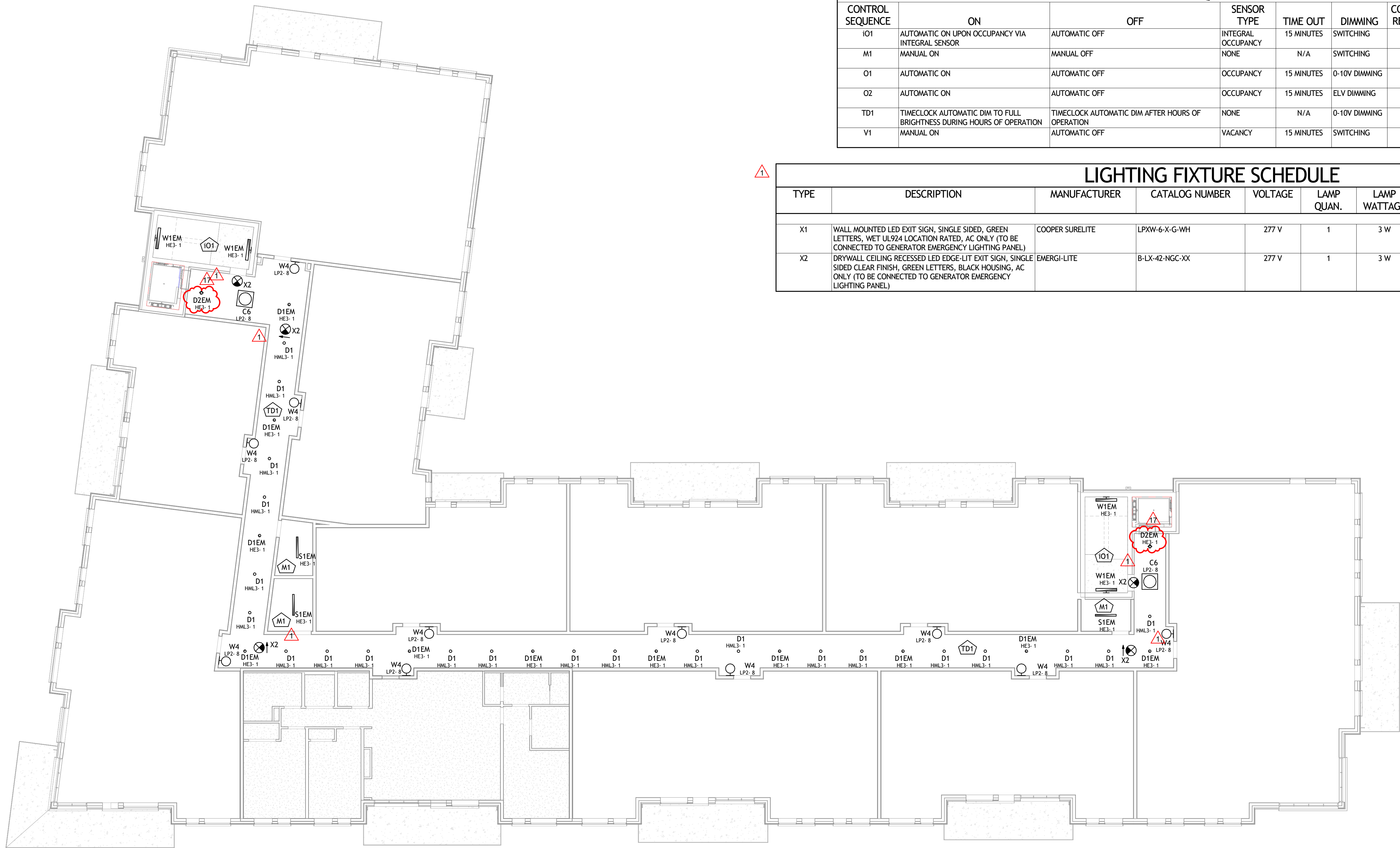
SHEET NO. \_\_\_\_\_

## E3.02

LIGHTING GENERAL NOTES	
A.	LIGHTING IS SHOWN FOR CIRCUITING PURPOSES ONLY. REFERENCE ILC "EL" SERIES SHEETS FOR MORE INFORMATION ON LIGHT FIXTURES, LIGHTING CONTROLS, ETC.
B.	CIRCUIT ALL EXIT SIGNS TO NEAREST UN-SWITCHED 277-VOLT EMERGENCY LIGHTING CIRCUIT (ON PANEL HEG OR HE3 AS APPLICABLE). EXIT SIGN POWER CONNECTIONS SHALL BE CONNECTED AHEAD OF ALL SWITCH LEGS AND CONTROLS.

LIGHTING SEQUENCE OF OPERATION								
CONTROL SEQUENCE	ON	OFF	SENSOR TYPE	TIME OUT	DIMMING	CONTROLLED RECEPTACLE	DAYLIGHT HARVESTING	NOTES
I01	AUTOMATIC ON UPON OCCUPANCY VIA INTEGRAL SENSOR	AUTOMATIC OFF	INTEGRAL OCCUPANCY	15 MINUTES	SWITCHING	NO	NO	REFER TO ILC 'EL' SERIES DRAWINGS FOR MORE INFORMATION
M1	MANUAL ON	MANUAL OFF	NONE	N/A	SWITCHING	NO	NO	REFER TO ILC 'EL' SERIES DRAWINGS FOR MORE INFORMATION
O1	AUTOMATIC ON	AUTOMATIC OFF	OCCUPANCY	15 MINUTES	0-10V DIMMING	NO	NO	REFER TO ILC 'EL' SERIES DRAWINGS FOR MORE INFORMATION
O2	AUTOMATIC ON	AUTOMATIC OFF	OCCUPANCY	15 MINUTES	ELV DIMMING	NO	NO	REFER TO ILC 'EL' SERIES DRAWINGS FOR MORE INFORMATION
TD1	TIMECLOCK AUTOMATIC DIM TO FULL BRIGHTNESS DURING HOURS OF OPERATION	TIMECLOCK AUTOMATIC DIM AFTER HOURS OF OPERATION	NONE	N/A	0-10V DIMMING	NO	NO	REFER TO ILC 'EL' SERIES DRAWINGS FOR MORE INFORMATION
V1	MANUAL ON	AUTOMATIC OFF	VACANCY	15 MINUTES	SWITCHING	NO	NO	REFER TO ILC 'EL' SERIES DRAWINGS FOR MORE INFORMATION

LIGHTING FIXTURE SCHEDULE										
TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	VOLTAGE	LAMP QUAN.	LAMP WATTAGE	LAMP / CCT / CRI	FIXTURE FINISH	MOUNTING	BOF/RFD/OFH
X1	WALL MOUNTED LED EXIT SIGN, SINGLE SIDED, GREEN LETTERS, WET UL924 LOCATION RATED, AC ONLY (TO BE CONNECTED TO GENERATOR EMERGENCY LIGHTING PANEL)	COOPER SURELITE	LPXW-6-X-G-WH	277 V	1	3 W	LED / GREEN	WHITE	SURFACE WALL	BOF 6" ABOVE DOOR FRAME
X2	DRYWALL CEILING RECESSED LED EDGE-LIT EXIT SIGN, SINGLE SIDED CLEAR FINISH, GREEN LETTERS, BLACK HOUSING, AC ONLY (TO BE CONNECTED TO GENERATOR EMERGENCY LIGHTING PANEL)	EMERGI-LITE	B-LX-42-NGC-XX	277 V	1	3 W	LED / GREEN	BLACK	SURFACE CEILING	BOF 6" ABOVE DOOR FRAME



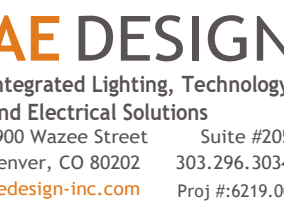
1 | ELECTRICAL LIGHTING CIRCUITING PLAN - LEVEL 02

E3.02	$3/32'' = 1'-0''$
-------	-------------------

11/00/00 11:00:00



3303 OSAGE STREET  
DENVER, CO 80202  
720.512.3437



100 Wazee Street Suite #20  
Denver, CO 80202 303.296.303-  
edesign-inc.com Proj #:6219.0

Steamboat Springs, CO

PROJECT NUMBER	20019
ISSUE DATE	03/15/2024

## The Amble

RESULTS

**IFC SET**

SHEET TITLE

**ELECTRICAL LIGHTING  
CIRCUITING PLAN -  
LEVEL 03**

SHEET NO.

### E3.03

1

## LIGHTING SEQUENCE OF OPERATION

1

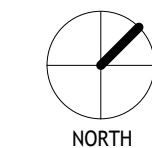


1	ELECTRICAL LIGHTING CIRCUITING PLAN - LEVEL 03
E3.03	3/32" = 1'-0"

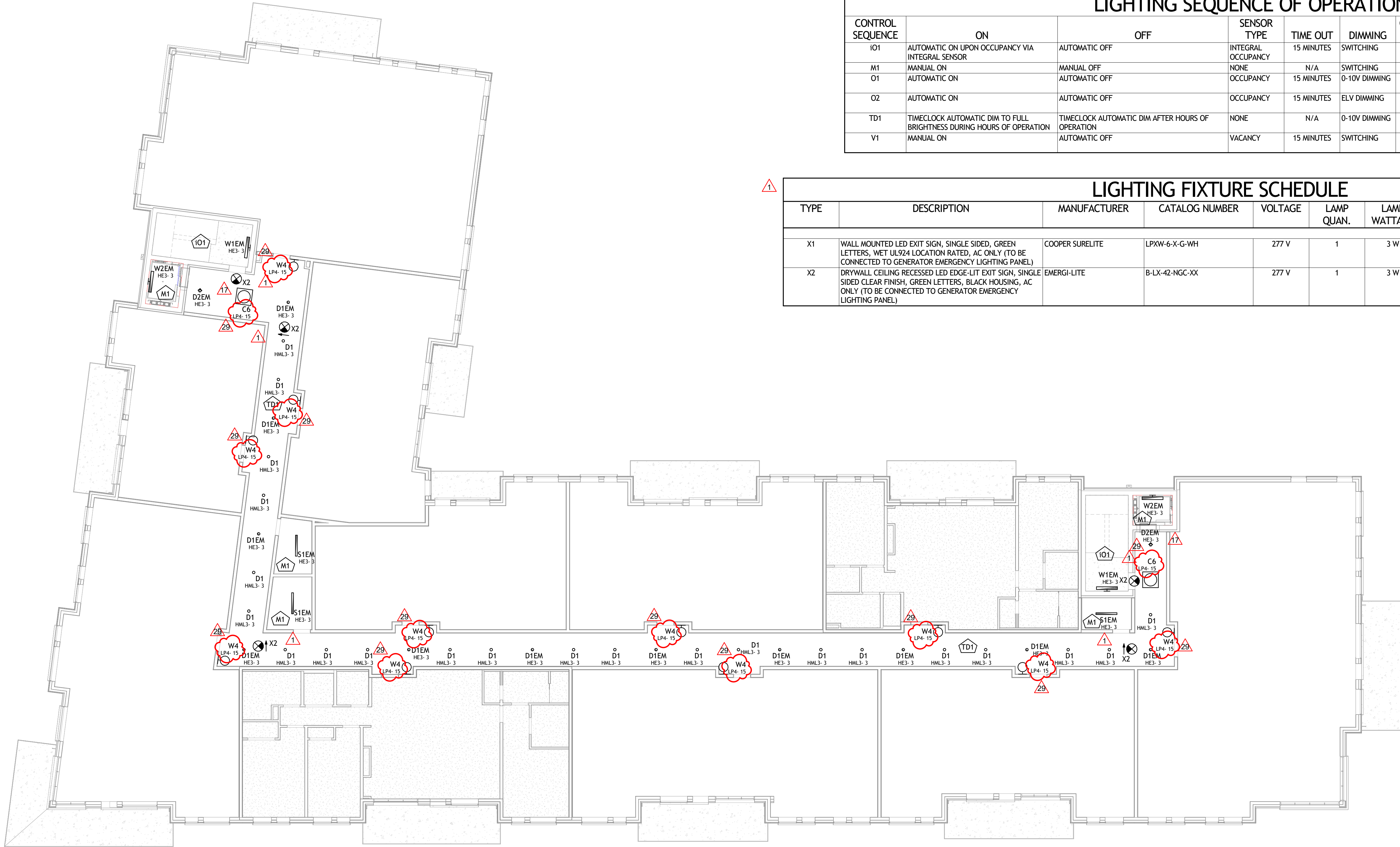
E3.03	$3/32'' = 1'-0''$
-------	-------------------

11/06/00 11:00 AM

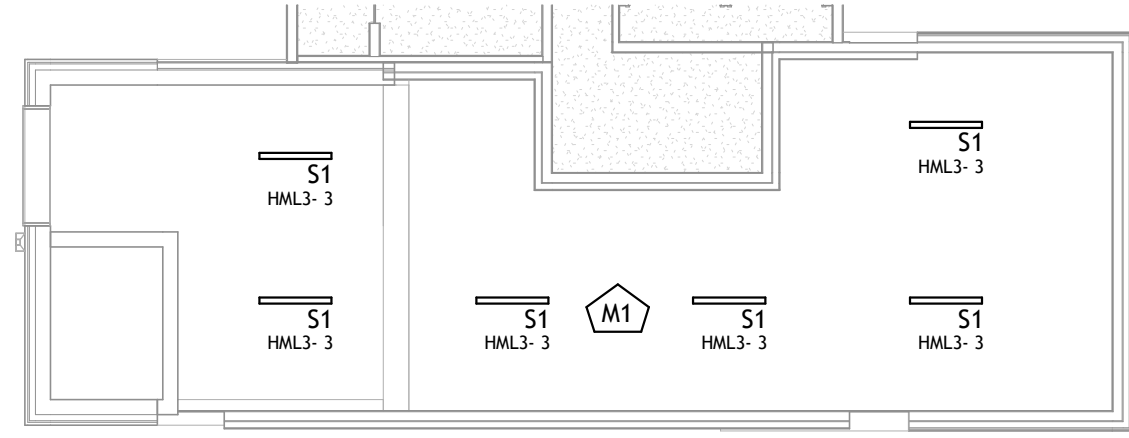




1 | ELECTRICAL LIGHTING CIRCUITING PLAN - LEVEL 04  
E3.04 | 3/32" = 1'-0"



18



2 | ELECTRICAL LIGHTING CIRCUITING PLAN - LEVEL DORMER  
E3.04 | 3/32" = 1'-0"

18

LIGHTING GENERAL NOTES

- A. LIGHTING IS SHOWN FOR CIRCUITING PURPOSES ONLY. REFERENCE ILC "EL" SERIES SHEETS FOR MORE INFORMATION ON LIGHT FIXTURES, LIGHTING CONTROLS, ETC.
- B. CIRCUIT ALL EXIT SIGNS TO NEAREST UN-SWITCHED 277-VOLT EMERGENCY LIGHTING CIRCUIT (ON PANEL HEG OR HE3 AS APPLICABLE). EXIT SIGN POWER CONNECTIONS SHALL BE CONNECTED AHEAD OF ALL SWITCH LEGS AND CONTROLS.

LIGHTING SEQUENCE OF OPERATION

CONTROL SEQUENCE	ON	OFF	SENSOR TYPE	TIME OUT	DIMMING	CONTROLLED RECEPTACLE	DAYLIGHT HARVESTING	NOTES
I01	AUTOMATIC ON UPON OCCUPANCY VIA INTEGRAL SENSOR	AUTOMATIC OFF	INTEGRAL OCCUPANCY	15 MINUTES	SWITCHING	NO	NO	REFER TO ILC 'EL' SERIES DRAWINGS FOR MORE INFORMATION
M1	MANUAL ON	MANUAL OFF	NONE	N/A	SWITCHING	NO	NO	<varies>
O1	AUTOMATIC ON	AUTOMATIC OFF	OCCUPANCY	15 MINUTES	0-10V DIMMING	NO	NO	REFER TO ILC 'EL' SERIES DRAWINGS FOR MORE INFORMATION
O2	AUTOMATIC ON	AUTOMATIC OFF	OCCUPANCY	15 MINUTES	ELV DIMMING	NO	NO	REFER TO ILC 'EL' SERIES DRAWINGS FOR MORE INFORMATION
TD1	TIMECLOCK AUTOMATIC DIM TO FULL BRIGHTNESS DURING HOURS OF OPERATION	TIMECLOCK AUTOMATIC DIM AFTER HOURS OF OPERATION	NONE	N/A	0-10V DIMMING	NO	NO	REFER TO ILC 'EL' SERIES DRAWINGS FOR MORE INFORMATION
V1	MANUAL ON	AUTOMATIC OFF	VACANCY	15 MINUTES	SWITCHING	NO	NO	REFER TO ILC 'EL' SERIES DRAWINGS FOR MORE INFORMATION

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	VOLTAGE	LAMP QUAN.	LAMP WATTAGE	LAMP / CCT / CRI	FIXTURE FINISH	MOUNTING	BOF/RFD/OFH
X1	WALL MOUNTED LED EXIT SIGN, SINGLE SIDED, GREEN LETTERS, WET UL924 LOCATION RATED, AC ONLY (TO BE CONNECTED TO GENERATOR EMERGENCY LIGHTING PANEL)	COOPER SURELITE	LPXW-6-X-G-WH	277 V	1	3 W	LED / GREEN	WHITE	SURFACE WALL	BOF 6" ABOVE DOOR FRAME
X2	DRYWALL CEILING RECESSED LED EDGE-LIT EXIT SIGN, SINGLE SIDED CLEAR FINISH, GREEN LETTERS, BLACK HOUSING, AC ONLY (TO BE CONNECTED TO GENERATOR EMERGENCY LIGHTING PANEL)	EMERGI-LITE	B-LX-42-NGC-XX	277 V	1	3 W	LED / GREEN	BLACK	SURFACE CEILING	BOF 6" ABOVE DOOR FRAME



359  
DESIGN

3031 OSCAR STREET  
DENVER, CO 80202  
720.612.5857



Integrated Lighting, Technology  
and Electrical Solutions  
1900 Wazee Street Suite #205  
Denver, CO 80202 303.296.3034  
aedesign-inc.com Proj #a219.00

The Amble  
Steamboat Springs, CO

No.	Description	Date
1	PERMIT COMMENT	02.08.2024
17	RESPONSE	07.02.2024
18	RFI #103	07.02.2024
19	RFI #104	07.02.2024
28	ADD DES	08.14.2024

PROJECT NUMBER 20019  
ISSUE DATE 03/19/2024

The Amble

ISSUE

IFC SET

SHEET TITLE

ELECTRICAL LIGHTING  
CIRCUITING PLAN -  
LEVEL 04 & 05

18

SHEET NO.

E3.04



REVISIONS		
No.	Description	Date
1	GMP SUBMITTAL	01.22.2024
2	PERMIT COMMENT RESPONSE	02.08.2024
3	GMP SET REVISIONS	02.09.2024
4	IFC	03.15.2024
5	RFI #59	04.30.2024
25	RFI #198	07.29.2024
26	ASI 003	08.02.2024
29	ASI 005	06.14.2024
30	RFI #613	08.15.2024
43	ASI 007	01.08.2025

PROJECT NUMBER	2001
MOLE DATE	03/18/2003

## The Amble

**IFC SET**

SHEET TITLE

### ELECTRICAL ONE LIN DIAGRAM

SHEET NO. \_\_\_\_\_

**E6.00**

## ALUMINUM WIRING ALTERNATE:

PROVIDE DEDUCT ALTERNATE PRICING FOR ALUMINUM CONDUCTORS FOR DISTRIBUTION FEEDERS AND WIRING RATED 100-AMPS AND LARGER. PRICING SHALL INCLUDE ASSOCIATED CONDUIT SIZES REQUIRED TO ACCOMMODATE THE CONDUCTORS. THE CONTRACTOR SHALL PROVIDE COPPER SHALL BE APPROVED BY OWNER AND ELECTRICAL ENGINEER IN WRITING PRIOR TO COMMENCING WORK. IF ACCEPTED, ALUMINUM CONDUCTORS SHALL BE USED FOR ALL DISTRIBUTION FEEDERS AND WIRING RATED 100-AMPS AND LARGER ONLY. ALL ALUMINUM WIRING TERMINATIONS SHALL BE MADE WITH APPROPRIATE CONNECTORS, HARDWARE AND OTHER ACCESSORIES AS REQUIRED BY THE ELECTRICAL ENGINEER. ALL WIRING CONNECTIONS AS REQUIRED PER NEC. ALUMINUM WIRING AND TERMINATIONS SHALL BE INSTALLED ACCORDING TO LATEST NECTAA-104 CODE. THE CONTRACTOR SHALL SUBMIT A DETAILED WIRING SCHEDULE FOR ADDITIONAL INFORMATION. CONTRACTOR SHALL COORDINATE INSTALLED WIRING TYPE/MATERIALS WITH LIGHTNING PROTECTION SYSTEM WIRING AND GROUNDING SYSTEM WIRING AS APPLICABLE.

## SELECTIVE COORDINATION NOTE:

PROVIDE SELECTIVE COORDINATION ANALYSIS PER NEC 620, 700, AND 701. PROVIDE SUBMITTAL TO THE ENGINEER FOR REVIEW AND APPROVAL. PRIOR TO COMPLETION OF THIS PROJECT, PROVIDE A WRITTEN STATEMENT TO THE ENGINEER AND OWNER CONFIRMING THAT PROTECTIVE DEVICE SETTINGS HAVE BEEN ADJUSTED PER THE STUDY AND SELECTIVE COORDINATION HAS BEEN ACHIEVED.

## UTILITY METERING NOTES

CT METERING EQUIPMENT SHALL BE INSTALLED ACCORDING TO YAMPA VALLEY ELECTRIC ASSOCIATION (YVEA) UTILITY ELECTRIC SERVICE REQUIREMENTS AND SHALL PROVIDE THE LISTED BARE MOUNTED CT CABINET WITH ALL NECESSARY PROVISIONS, CONNECTORS, CLEARANCES, MOUNTING HARDWARE, AND ACCESS AS REQUIRED BY UTILITY. EC SHALL FURNISH AND INSTALL THE REQUIRED METER HOUSING AS COORDINATED WITH YVEA. UTILITY SHALL FURNISH, INSTALL, AND CONNECT THE METER IN THAT HOUSING. METER AT SECONDARY CONNECTION CABINET SHALL BE PROVIDED AND INSTALLED BY YVEA. ALL COSTS FOR WORK DESCRIBED IN THIS SPECIFICATION BY UTILITY SHALL BE PAID BY THE OWNER. EC SHALL COORDINATE EXACT METERING REQUIREMENTS AND INSTALLATION, INCLUDING METER LOCATION, WITH UTILITY COMPANY (YVEA) PRIOR TO COMMENCING WORK.

## ELECTRICAL REQUIREMENTS FOR ELEVATORS

1. E. C. SHALL COORDINATE WITH ELEVATOR SHOP DRAWINGS ALL ELECTRICAL REQUIREMENTS, INCLUDING BUT NOT LIMITED TO, ELEVATOR HORSEPOWER, MAXIMUM OVERCURRENT DEVICE, MINIMUM WIRE SIZE, OPERATING VOLTAGE AND PROMPTLY ADVISE ELECTRICAL ENGINEER SO THAT MODIFICATIONS CAN BE MADE PRIOR TO ROUGH IN.
2. E. C. SHALL PROVIDE PIT LIGHTS AND SWITCH, CONVENIENCE OUTLETS PER CAR WITH GFCI PROTECTION TO MEET NEC REQUIREMENTS.
3. E. C. SHALL PROVIDE DEDICATED 120 VOLT 20 AMP SERVICE ALONG WITH TELEPHONE CIRCUIT WHEN REQUIRED TO TERMINALS OF EACH REQUIRED CONTROLLER FOR THE FOLLOWING:
  - A. KEYED SWITCH FOR CAR LIGHTS
  - B. ALARM CIRCUIT WITH GFCI PROTECTION
  - C. GROUP CONTROL WHEN/IF REQUIRED.
  - D. BACK UP POWER IF STANDBY POWER IS SUPPLIED TO ELEVATOR.
4. IF BATTERY OPERATED LOWING IS PROVIDED, E. C. SHALL PROVIDE ELEVATOR ROOM DISCONNECT WITH AUXILIARY CONTACTS CONFIGURED AS SPST AT 1 AMP 120 VOLT. THE CONTACTS SHALL BE OPEN WHEN DISCONNECTING MEANS IS IN THE OPEN POSITION.
5. E. C. SHALL PROVIDE SMOKE AND/OR THERMAL DETECTION IN ELEVATOR PIT AND TOP OF ELEVATOR SHAFT, MACHINE ROOM AND IN FRONT OF ELEVATOR DOORS AS REQUIRED BY ELEVATOR MACHINE CODE, BUILDING CODES, THE NEC AND ALL LOCAL AUTHORITIES HAVING JURISDICTION.

KEYNOTE | LEGEND

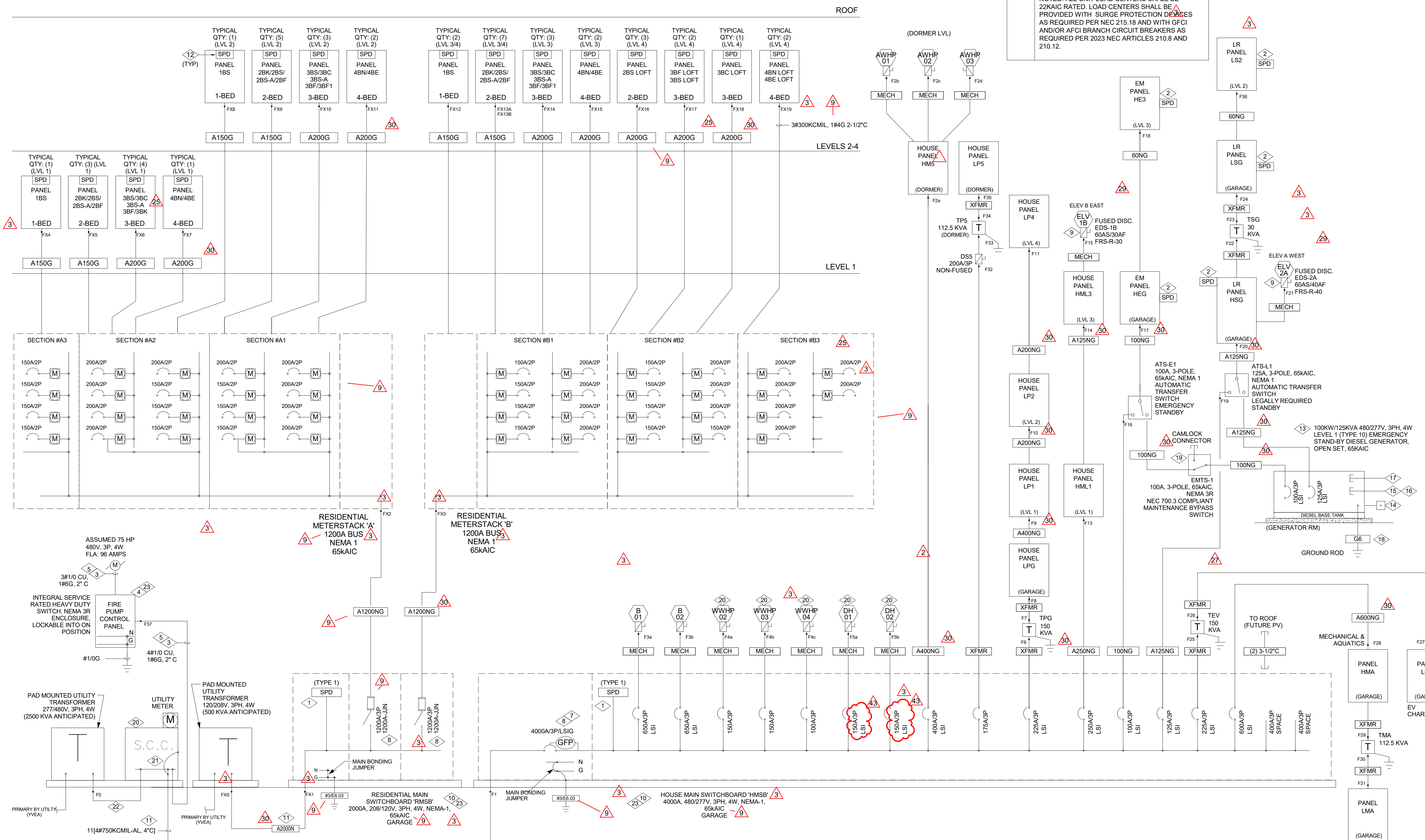
KEY VALUE	
◇	
20.	SECONDARY CONNECTION CABINET (S.C.C.), CT METERING PROVISIONS, AND UNDERGROUND VAULT, AND CONCRETE PAD FOR UTILITY TRANSFORMER AND S.C.C. PROVIDED AND INSTALLED BY THE CONTRACTOR PER UTILITY REQUIREMENTS. S.C.C. TO BE RATED A MINIMUM OF 4000A, 277/480V, 3PH, 4W, 65KAIC, NEMA 3R.
21.	BOND SCC METAL ENCLOSURE TO THE GROUND SYSTEM CONDUCTOR (NEUTRAL) PER NEC 250.80. BONDING JUMPER TO BE 500KCMIL-AL PER TABLE 250.102(C)(1).
22.	CONDUIT AND WIRING BETWEEN TRANSFORMER SECONDARY AND SECONDARY CONNECTION CABINET (SCC) ANTICIPATED TO BE PROVIDED BY YVEA. CONTRACTOR SHALL COORDINATE EXACT INSTALLATION AND METERING REQUIREMENTS WITH YVEA.
23.	EC SHALL PROVIDE IDENTIFICATION AS REQUIRED BY 2023 NEC ARTICLE 300.2(E) FOR BUILDING WITH MULTIPLE SERVICES.

KEYNOTE | LEGEND

KEY	VALUE
1.	PROVIDE TYPE 1, UL 1449 (4TH EDITION) LISTED EXTERNAL SURGE PROTECTION DEVICE (SPD) WITH 150KA PER MODE PROTECTION. PROVIDE CIRCUIT BREAKER AND WIRING PER MANUFACTURERS INSTALLATION INSTRUCTIONS AND REQUIREMENTS, INCLUDING MANUFACTURER'S LEAD LENGTHS. CURRENT TECHNOLOGY MODEL: SL3-150-480-3Y-MNB-MBE-F (OR APPROVED EQUAL).
2.	PROVIDE SURGE PROTECTION DEVICE (SPD) FOR EMERGENCY PANEL PER NEC 700.8. SPD SHALL BE EXTERNAL TO PANELBOARD AND PROVIDE 65KA/MODE PROTECTION. PROVIDE BREAKER SIZE AND WIRING PER MANUFACTURER'S RECOMMENDATIONS
3.	SERVICE CONDUCTORS TO RUN "OUTSIDE OF BUILDING" - UNDER SLAB OR CONCRETE ENCASED PER NFPA CHAPTER 20 6-3.1.1 AND NEC 695.6(A) AND (B).
4.	LISTED FIRE PUMP CONTROLLER WITH INTEGRAL SERVICE RATED MAIN DISCONNECT SWITCH SIZED FOR PUMP LOCKED ROTOR PROTECTION PER NFPA 20, CHAPTER 10. CONTROLLER SHALL BE RATED FOR 100-HP, 208V, 3-PHASE, 60HZ, 100KCAL, NEMA 3R.
5.	RIGID METAL CONDUIT SEE NOTE 3 FOR ROUTING REQUIREMENTS
6.	NO LONGER USED
7.	PROVIDE LSIG ELECTRONIC ADJUSTABLE TRIP CIRCUIT BREAKER WITH GROUND FAULT PROTECTION PER NEC. PROVIDE RECOMMENDED SHORT-TIME (ST) LONG TIME (LT), INSTANTANEOUS (INSTA), AND GROUND FAULT (GF) CIRCUIT BREAKER SETTINGS.
8.	PROVIDE ARC ENERGY REDUCTION MAINTENANCE SETTING OR OTHER METHOD PER NEC 240.67 AND 240.87. EC TO PROVIDE COMPLIANT DOCUMENTATION FOR THE ARC ENERGY REDUCTION PER NEC 240.67 AND 240.87.
9.	PROVIDE ELEVATOR CONTROL SWITCH (EATON 'E' SERIES, OR APPROVED EQUAL) WITH FIRE SAFETY INTERFACE RELAY, VOLTAGE MONITORING RELAY, AND AUXILIARY CONTACTS AS REQUIRED FOR FIRE ALARM SHUTTLE TRIP OPERATION OF ELEVATOR POWER PER NEC ARTICLE 620. EC SHALL COORDINATE EXACT DISCONNECT SIZING AND FIRE ALARM RELAY SPECIFICATION WITH THE APPROVED ELEVATOR SUBMITTALS AND FIRE ALARM SYSTEM SUBMITTALS PRIOR TO ORDERING.
10.	EACH SERVICE MAIN FUSE OR CIRCUIT BREAKER SHALL BE LOCATED WITHIN A SEPARATE VERTICAL SECTION OF THE SWITCHBOARD EQUIPMENT AND PROVIDED WITH PHYSICAL BARRIERS SEPARATING EACH MAIN/SECTION AS REQUIRED PER NEC 230.71(B).
11.	SERVICE CONDUCTORS TO RUN "OUTSIDE OF BUILDING" - UNDER SLAB OR CONCRETE ENCASED PER NEC 230.6.
12.	PROVIDE TYPE 2, UL 1449 (4TH EDITION) LISTED EXTERNAL SPD WITH 40kA/MODE PROTECTION. PROVIDE BREAKER SIZE AND WIRING PER MANUFACTURER'S INSTRUCTIONS. PROVIDE #CG40-120/240-2G OR APPROVED EQUAL.
13.	NEW DIESEL GENERATOR LIFE-SAFETY STANDBY GENERATOR, BASIS OF DESIGN: CUMMINS 80KW/100KVA, 277/480V, 3-PHASE, (RATED 80KW AT SITE ELEVATION), PROVIDE OPEN SET (NO ENCLOSURE), QTY. (2) ADJUSTABLE CIRCUIT BREAKERS SIZED AS SHOWN, 12-HOUR STATE RATED, SUB-BASE FUEL TANK UL 142 LISTED W/ NFPA 30-37 FUEL TANK ACCESSORIES, BATTERIES W/ WARMING PADS & THERMOSTAT, COOLANT HEATER, ANY OTHER COLD WEATHER ACCESSORIES AND FUEL ADDITIVES, ANNUNCIATOR, DELIVERY TO SITE W/ OFFLOADING, INITIAL FUEL FILL AND START-UP WITH 2 HOUR LOAD BANK TESTING, PROVIDE VERTICAL DISCHARGE COIL FOR AIR INTAKE/EXHAUST. CONTRACTOR SHALL INCLUDE THE FULL MATERIAL AND LABOR COSTS OF PROCUREMENT, INSTALLATION, AND START-UP TESTING OF GENERATOR AND ATS WITHIN BID ESTIMATE AND PRICING. CONTRACTOR IS RESPONSIBLE FOR ALL SITE PREPARATION AND CONDITIONS TO ACCOMMODATE GENERATOR DELIVERY/OFF-LOADING AND PERMITTING. CONTRACTOR SHALL INSTALL FINAL TERMINATIONS FOR LOW-VOLTAGE CONTROL/COMMUNICATIONS CABLEING AS REQUIRED BY MANUFACTURERS INSTALLATION INSTRUCTIONS. CONTRACTOR SHALL COORDINATE WITH THE PERMANENT GENERATOR SETTING (RACEWAY AND WIRING) INSTALLATION REQUIREMENTS WITH MANUFACTURER PRIOR TO COMMENCING WORK.
14.	EC SHALL PROVIDE EPO SWITCH AND CONNECT EPO TO GENERATOR EQUIPMENT CONTROLS SUCH THAT THE EPO TURNS OFF THE GENERATOR UPON COMPRESSION AND ACTIVATES THE GENERATOR UPON RELEASEER TO #116-010 FOR MORE INFORMATION.
15.	PROVIDE 1" CONDUIT FROM GENERATOR DIGITAL CONTROLLER TO ATS EQUIPMENT FOR GENERATOR START/STOP SIGNAL CONTROL WIRING. REFER APPROVED GENERATOR EQUIPMENT SUBMITTALS, SHOP DRAWINGS, AND INSTALLATION INSTRUCTIONS FOR ADDITIONAL INFORMATION.
16.	PROVIDE 1" CONDUIT FROM GENERATOR DIGITAL CONTROLLER TO REMOTE ANNUNCIATOR PANEL FOR ANNUNCIATOR WIRING. REFER TO POWER PLAN AND COORDINATE WITH OWNER FOR FINAL ANNUNCIATOR LOCATION IN MONITORED AREA
17.	PROVIDE (3) 1" CONDUITS TO PANEL 'LS1' FOR BRANCH CIRCUIT WIRING FOR GENERATOR ACCESSORY EQUIPMENT INCLUDING GENERATOR BATTERY CHARGER, COOLANT/BLOCK HEATER, BATTERY WARMING PAD, ETC. REFER TO POWER PLANS FOR MORE INFORMATION.
18.	AUXILIARY GROUNDING ELECTRODE (GROUND ROD), PROVIDED ONLY AS REQUIRED BY MANUFACTURER FOR GENERATOR ENCLOSURE GROUNDING. GENERATOR GROUNDING CONDUCTOR (NEUTRAL) WIRING SHALL BE SWIRL BOUND TO 3-6 IN. ATS, AND SHALL BE INSTALLED BEHIND CONDUIT CONNECTED TO THE SERVICE SUPPLIED SYSTEM GROUNDING CONDUCTOR (NEUTRAL TERMINALS AT MAIN DISCONNECT), THEREFORE, THE GENERATOR IS NOT CONSIDERED A SEPARATELY DERIVED SYSTEM PER NEC. CONTRACTOR AND MANUFACTURER SHALL NOT BOND NEUTRAL AND GROUND AT GENERATOR EQUIPMENT.
19.	PROVIDE AN "ALL-IN-ONE" SOLUTION FOR COMPLIANCE WITH NEC 700.3 TEMPORARY SOURCE OF EMERGENCY POWER FOR MAINTENANCE OR REPAIR OR THE (PERMANENT) ALTERNATE SOURCE OF POWER (PERMANENT GENERATOR SET). PRODUCT SHALL CONTAIN A MANUAL TRANSFER SWITCH WITH CAM-TYPE CONNECTIONS FOR CONNECTION OF PORTABLE SOURCE OF POWER (TEMPORARY DIESEL GENSET) PRODUCTS SHALL INCLUDE TRANSFER OF THE ATS START/STOP COMMANDS TO THE TEMPORARY GENERATOR. CONTRACTOR SHALL COORDINATE REMOTE ANNUNCIATOR ADJACENT TO THE PERMANENT GENERATOR'S REMOTE ANNUNCIATOR TO INDICATE STATUS OF PERMANENT AND TEMPORARY GENERATORS (CONNECTED VS. DISCONNECTED). CONTRACTOR SCOPE SHALL INCLUDE EMTS, CAM, CONNECTORS, ATS CONTROL, SITE-IN, AND ALTERNATE ANNUNCIATOR AS INDICATED. SCOPE SHALL NOT INCLUDE PURCHASE OR INSTALLATION OF TEMPORARY MOBILE GENERATOR SET.
20.	EC SHALL VERIFY WITH MECHANICAL CONTRACTOR THAT FINAL APPROVED EQUIPMENT SHORT CIRCUIT CURRENT RATING (AIC RATING) EXCEEDS AVAILABLE FAULT CURRENT PER FAULT CALCULATIONS TABLE, SHEET E6.01

## GENERAL NOTES

- A. ALL UNIT LOAD CENTERS SHALL BE 208/120V, 1  
3W, 125A BUS, 125A/250A MAIN CIRCUIT BREAKER  
42-CIRCUIT PANELBOARDS UNLESS OTHERWISE  
NOTED. ALL UNIT LOAD CENTERS SHALL BE  
22KVA RATED. LOAD CENTERS SHALL BE  
PROVIDED WITH SURGE PROTECTION DEVICES  
AS REQUIRED PER NEC 215.18 AND WITH GFCI  
AND/OR AFCI BRANCH CIRCUIT BREAKERS AS  
REQUIRED PER 2023 NEC ARTICLES 210.8 AND  
210.12.



## 1 | ELECTRICAL ONE-LINE DIAGRAM

E6.00	NO SCALE
-------	----------



# FAULT CURRENT AND VOLTAGE DROP CALCULATION TABLE (COMMERCIAL)

POINT	LOCATION DESCRIPTION	LENGTH (L) (ft)	LOAD ON FEEDER (Amps)	Power Factor (%)	VOLTAGE (EL-L)	PHASE	WIRE SIZE	CONDUCTOR MATERIAL	CONDUCTOR TYPE	CONDUIT MATERIAL	VOLTAGE CLASS	Conductor Volt Loss	C VALUE	# OF PARALLEL RUNS	Isc AVAILABLE UPSTREAM	Isc AT EQUIP (I3ph) OR (L-L)	% OF VOLTAGE DROP	VOLTAGE AT START (VL-L)	VOLTAGE AT END (VL-L)	POINT
F0	UTILITY XFMR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	F0
F1	HMSB	90	2974	90%	480	3	600	ALUMINUM	THREE SINGLE CONDUCTORS	STEEL	600V	95	20093	12	53.100	49.556	0.4%	480	478	F1
F2a	PANEL 'HMS'	200	222	90%	480	3	250	ALUMINUM	THREE SINGLE CONDUCTORS	NONMAGNETIC	600V	163	12862	2	49.556	20.732	0.8%	478	474	F2a
F2b	AWHP-01	50	74	90%	480	3	1	ALUMINUM	THREE SINGLE CONDUCTORS	NONMAGNETIC	600V	424	4678	1	20.732	11.521	0.3%	474	473	F2b
F2c	AWHP-02	50	74	90%	480	3	1	ALUMINUM	THREE SINGLE CONDUCTORS	NONMAGNETIC	600V	424	4678	1	20.732	11.521	0.3%	474	473	F2c
F2d	AWHP-03	50	74	90%	480	3	1	ALUMINUM	THREE SINGLE CONDUCTORS	NONMAGNETIC	600V	424	4678	1	20.732	11.521	0.3%	474	473	F2d
F3a	B-01	180	520	90%	480	3	300	ALUMINUM	THREE SINGLE CONDUCTORS	NONMAGNETIC	600V	141	14922	2	49.556	23.842	1.4%	478	471	F3a
F3b	B-02	180	520	90%	480	3	300	ALUMINUM	THREE SINGLE CONDUCTORS	NONMAGNETIC	600V	141	14922	2	49.556	23.842	1.4%	478	471	F3b
F4a	WWHP-02	140	96	90%	480	3	3X	ALUMINUM	THREE SINGLE CONDUCTORS	NONMAGNETIC	600V	234	9110	1	49.556	13.222	0.7%	478	475	F4a
F4b	WWHP-03	140	96	90%	480	3	3X	ALUMINUM	THREE SINGLE CONDUCTORS	NONMAGNETIC	600V	234	9110	1	49.556	13.222	0.7%	478	475	F4b
F4c	WWHP-04	140	69	90%	480	3	1	ALUMINUM	THREE SINGLE CONDUCTORS	NONMAGNETIC	600V	424	4678	1	49.556	7.802	0.9%	478	474	F4c
F5a	DH-01	150	203	90%	480	3	3X	ALUMINUM	THREE SINGLE CONDUCTORS	NONMAGNETIC	600V	234	9110	1	49.556	12.564	1.5%	478	471	F5a
F5b	DH-02	150	203	90%	480	3	3X	ALUMINUM	THREE SINGLE CONDUCTORS	NONMAGNETIC	600V	234	9110	1	49.556	12.564	1.5%	478	471	F5b
F6	XFMR 'TPG' PRIMARY	5	168	90%	480	3	300	ALUMINUM	THREE SINGLE CONDUCTORS	NONMAGNETIC	600V	141	14922	1	49.556	46.754	0.0%	478	478	F6
F7	XFMR 'TPG' SECONDARY																		F7	
F8	PANEL 'LPG'	5	387	90%	208	3	500	ALUMINUM	THREE SINGLE CONDUCTORS	NONMAGNETIC	600V	96	21390	2	10.826	10.713	0.0%	208	208	F8
F9	PANEL 'LP1'	105	214	90%	208	3	250	ALUMINUM	THREE SINGLE CONDUCTORS	NONMAGNETIC	600V	163	12862	2	10.713	7.853	0.880%	208	206	F9
F10	PANEL 'LP2'	20	43	90%	208	3	250	ALUMINUM	THREE SINGLE CONDUCTORS	NONMAGNETIC	600V	163	12862	1	7.853	7.129	0.067%	206	206	F10
F11	PANEL 'LP4'	40	27	90%	208	3	250	ALUMINUM	THREE SINGLE CONDUCTORS	NONMAGNETIC	600V	163	12862	1	7.129	6.018	0.085%	206	206	F11
F13	PANEL 'HML1'	105	94	90%	480	3	350	ALUMINUM	THREE SINGLE CONDUCTORS	NONMAGNETIC	600V	125	16812	1	49.556	23.411	0.257%	478	477	F13
F14	PANEL 'HML3'	40	52	90%	480	3	2X	ALUMINUM	THREE SINGLE CONDUCTORS	NONMAGNETIC	600V	281	7301	1	23.411	16.004	0.122%	477	476	F14
F15	ELEV-B (NOTE 5)	220	40	90%	480	3	10	COPPER	THREE SINGLE CONDUCTORS	NONMAGNETIC	600V	1908	981	1	1.147	3.499%	476	459	F15	
F16	ATS-E1	20	7	90%	480	3	1	COPPER	THREE SINGLE CONDUCTORS	NONMAGNETIC	600V	268	7493	1	49.556	33.545	0.008%	478	478	F16
F17	PANEL 'HEG'	5	7	90%	480	3	1	COPPER	THREE SINGLE CONDUCTORS	NONMAGNETIC	600V	268	7493	1	33.545	31.038	0.002%	478	478	F17
F18	PANEL 'HE3'	155	2	90%	480	3	4	ALUMINUM	THREE SINGLE CONDUCTORS	NONMAGNETIC	600V	831	2350	1	31.038	3.701	0.054%	478	478	F18
F19	ATS-1	20	99	90%	480	3	2X	COPPER	THREE SINGLE CONDUCTORS	NONMAGNETIC	600V	188	11423	1	49.556	37.740	0.078%	478	478	F19
F20	PANEL 'HSG'	15	99	90%	480	3	2X	ALUMINUM	THREE SINGLE CONDUCTORS	NONMAGNETIC	600V	281	7301	1	37.740	29.490	0.087%	478	477	F20
F21	ELEV-2A (NOTE 5)	100	40	90%	480	3	8	COPPER	THREE SINGLE CONDUCTORS	NONMAGNETIC	600V	1255	1558	1	29.490	3.766	1.046%	477	472	F21
F22	XFMR 'TSG' PRIMARY	135	35	90%	480	3	6	COPPER	THREE SINGLE CONDUCTORS	NONMAGNETIC	600V	802	2430	1	29.490	4.267	0.801%	477	473	F22
F23	XFMR 'TSG' SECONDARY																		F23	
F24	PANEL 'LSG'	5	82	90%	208	3	1	ALUMINUM	THREE SINGLE CONDUCTORS	NONMAGNETIC	600V	424	4678	1	2.445	2.393	0.084%	208	208	F24
F25	XFMR 'TEV' PRIMARY	5	170	90%	480	3	300	ALUMINUM	THREE SINGLE CONDUCTORS	NONMAGNETIC	600V	141	14922	1	49.556	46.754	0.025%	478	478	F25
F26	XFMR 'TEV' SECONDARY																		F26	
F27	PANEL 'LEV'	25	393	90%	208	3	350	ALUMINUM	THREE SINGLE CONDUCTORS	NONMAGNETIC	600V	125	16812	2	10.826	10.146	0.295%	208	207	F27
F28	PANEL 'HMA'	160	386	90%	480	3	500	ALUMINUM	THREE SINGLE CONDUCTORS	NONMAGNETIC	600V	96	21390	2	49.556	29.696	0.634%	478	475	F28
F29	XFMR 'TMA' PRIMARY	5	86	90%	480	3	4X	ALUMINUM	THREE SINGLE CONDUCTORS	NONMAGNETIC	600V	186	11174	1	29.696	28.337	0.017%	475	475	F29
F30	XFMR 'TMA' SECONDARY																		F30	
F31	PANEL 'LMA'	5	198	90%	208	3	250	ALUMINUM	THREE SINGLE CONDUCTORS	NONMAGNETIC	600V	163	12862	2	6.442	6.376	0.039%	208	208	F31
F32	XFMR 'TPS' DISC	180	119	90%	480	3	250	ALUMINUM	THREE SINGLE CONDUCTORS	NONMAGNETIC	600V	163	12862	1	49.556	14.149	0.725%	478	474	F32
F33	XFMR 'TPS' PRIMARY	5	119	90%	480	3	4X	ALUMINUM	THREE SINGLE CONDUCTORS	NONMAGNETIC	600V	186	11174	1	14.149	13.833	0.023%	474	474	F33
F34	XFMR 'TPS' SECONDARY																		F34	
F35	PANEL 'LPS'	5	274	90%	208	3	250	ALUMINUM	THREE SINGLE CONDUCTORS	NONMAGNETIC	600V	163	12862	2	5.839	5.784	0.054%	208	208	F35
F36	PANEL 'LS2'	175	7	90%	208	3	4	COPPER	THREE SINGLE CONDUCTORS	NONMAGNETIC	600V	519	3825	1	2.393	1.252	0.306%	208	207	F36
F37	FIRE PUMP CTRL PANEL	145	96	90%	208	3	1X	ALUMINUM	THREE SINGLE CONDUCTORS	NONMAGNETIC	600V	344	5838	1	54.100	4.432	2.302%	480	469	F37

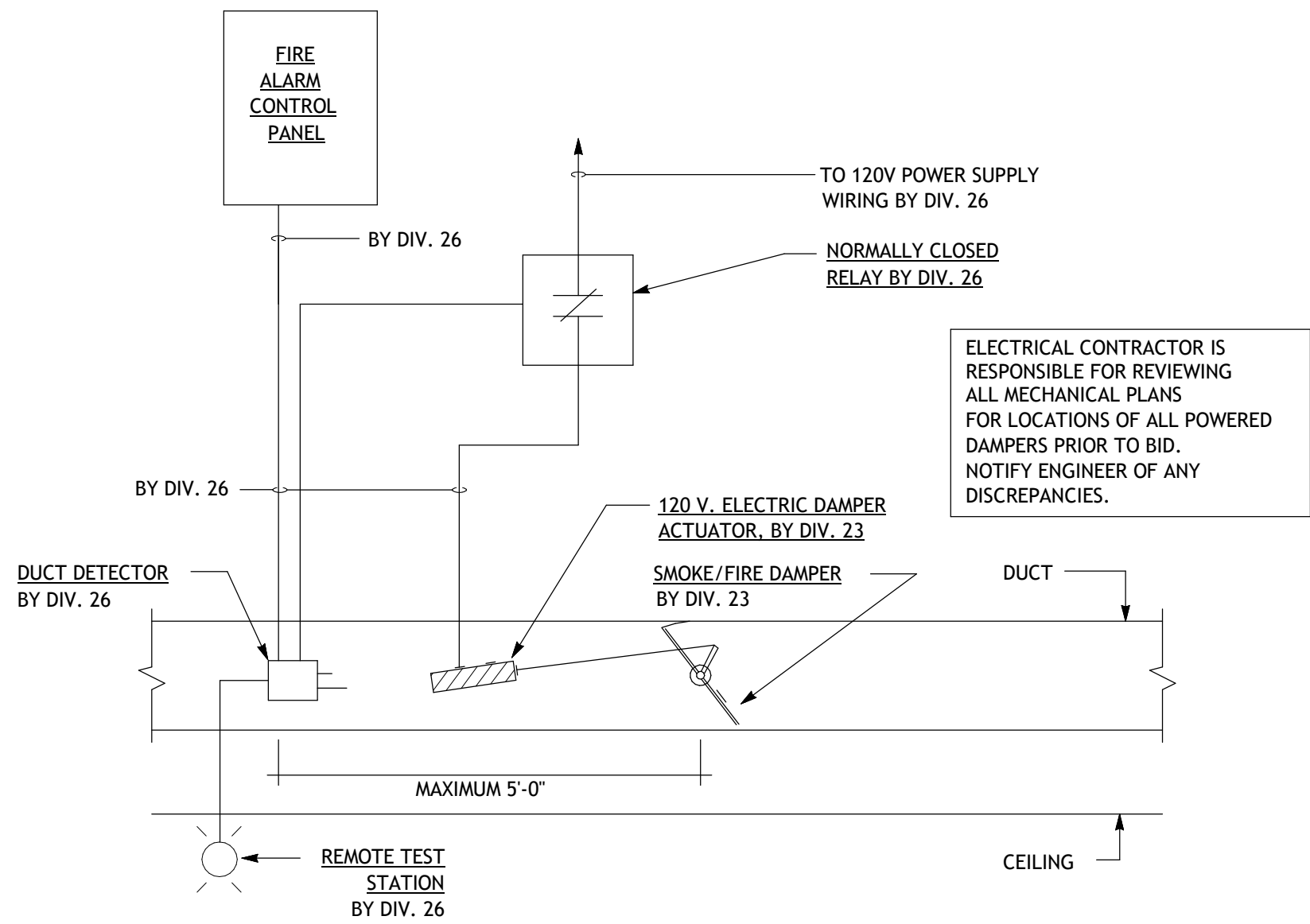
NOTES:

- ALL CALCULATIONS WERE DONE USING BUSSMAN "POINT-TO-POINT" METHOD.
- LET THRU TAKEN FROM BUSSMAN "CURRENT LIMITATION CURVES."
- ALL YELLOW SQUARES REQUIRE USER INPUT.
- VERIFY THAT THIS CELL REFERENCES THE CORRECT VALUE UPSTREAM OF THE EQUIPMENT.
- THIS CALCULATION TABLE DOES NOT TAKE INTO ACCOUNT SECONDARY TRANSFORMERS.
- ELEVATOR DISCONNECT SHALL BE PROVIDED WITH CURRENT LIMITING FUSING AS REQUIRED TO LIMIT AVAILABLE FAULT CURRENT TO LESS THAN 5,000 AMPS. REFER TO ELECTRICAL ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.

# FAULT CURRENT AND VOLTAGE DROP CALCULATION TABLE

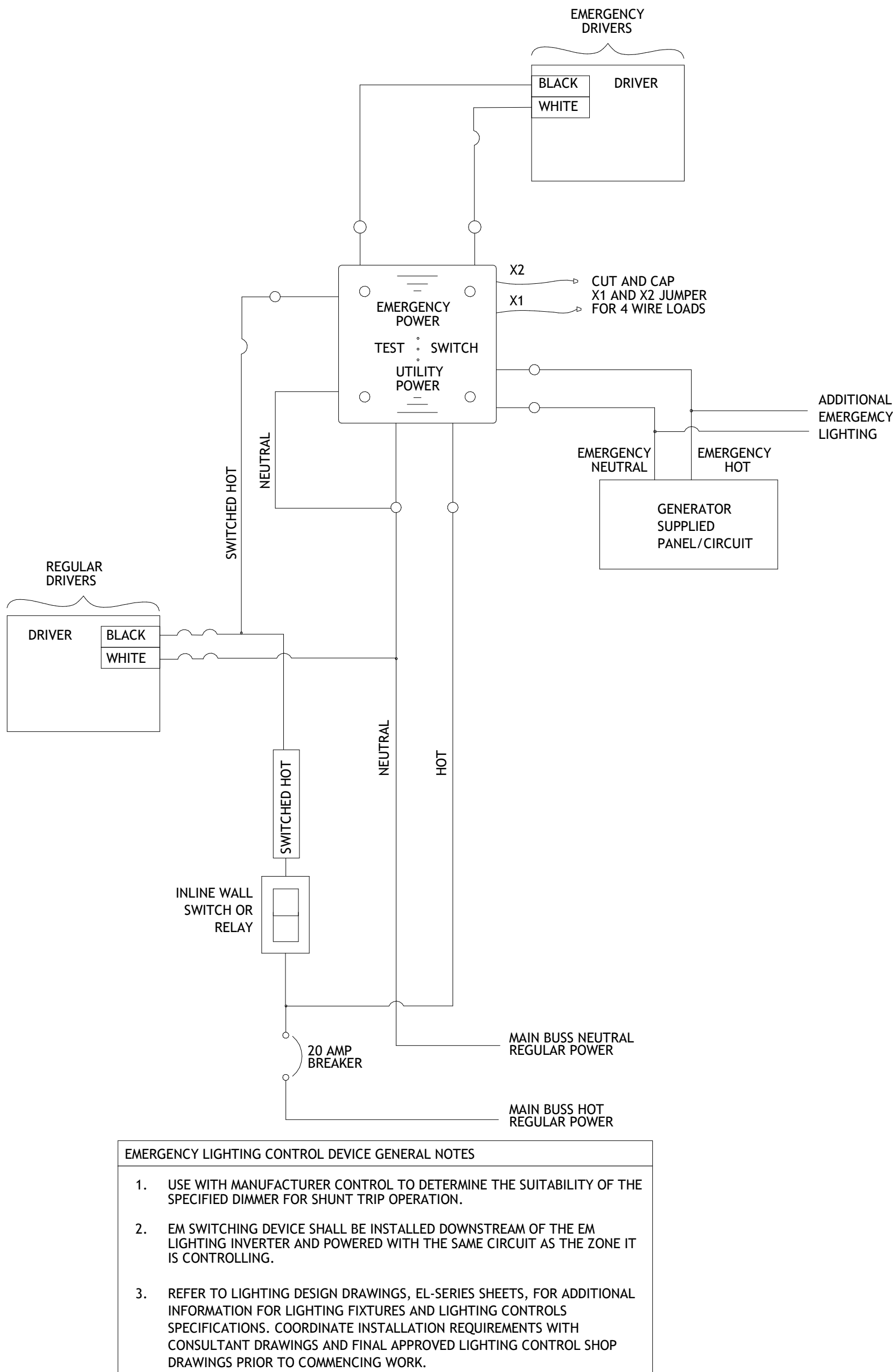
POINT	LOCATION DESCRIPTION	LENGTH (L) (ft)	LOAD ON FEEDER (Amps)	Power Factor (%)	VOLTAGE (EL-L)	PHASE	WIRE SIZE	CONDUCTOR MATERIAL	CONDUCTOR TYPE	CONDUIT MATERIAL	VOLTAGE CLASS	Conductor Volt Loss	C VALUE	# OF PARALLEL RUNS	Isc AVAILABLE UPSTREAM	f L-L	M L-L	Isc AT EQUIP (I3ph) OR (L-L)	% OF VOLTAGE DROP	VOLTAGE AT START (VL-L)	VOLTAGE AT END (VL-L)	POINT
FX0	500KVA UTILITY XFMR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	208	--	FX0
FX1	RMSB	85	1491	90%	208	3	400	COPPER	THREE SINGLE CONDUCTORS	STEEL	600V	91	29565	6	59.400	0.34	0.75	44.304	0.9%	208	206	FX1
FX2	METERSTACK A	20	921	90%	208	3	350	COPPER	THREE SINGLE CONDUCTORS	STEEL	600V	98	19703	4	44.304	0.09	0.91	40.512	0.2%	206	206	FX2
FX3	METERSTACK B	20	1047	90%	208	3	350	COPPER	THREE SINGLE CONDUCTORS	STEEL	600V	98	19703	4	44.304	0.09	0.91	40.512	0.2%	206	206	FX3
FX4	1ST FLR 1 BEDROOM UNIT	80	124	90%	208	1	1X	COPPER	THREE-CONDUCTOR CABLE	STEEL	600V	263	9209	1	40.512	3.38	0.23	9.241	1.3%	206	203	FX4
FX5	1ST FLR 2 BEDROOM UNIT	140	126	90%	208	1	1X	COPPER	THREE-CONDUCTOR CABLE	STEEL	600V	263	9209	1	40.512	5.92	0.14	5.853	2.2%	206	201	FX5
FX6	1ST FLR 3 BEDROOM UNIT	50	157	90%	208	1	3X	COPPER	THREE-CONDUCTOR CABLE	STEEL	600V	187	13656	1	40.512	1.43	0.41	16.697	0.7%	206	204	FX6
FX7	1ST FLR 4 BEDROOM UNIT	240	159	90%	208	1	3X	COPPER	THREE-CONDUCTOR CABLE	STEEL	600V	187	13656	1	40.512	6.85	0.13	5.163	3.4%	206	199	FX7
FX8	2ND FLR 1 BEDROOM UNIT	90	124	90%	208	1	1X	COPPER	THREE-CONDUCTOR CABLE	STEEL	600V	263	9209	1	40.512	3.81	0.21	8.428	1.4%	206	203	FX8
FX9	2ND FLR 2 BEDROOM UNIT	155	126	90%	208	1	1X	COPPER	THREE-CONDUCTOR CABLE	STEEL	600V	263	9209	1	40.512	6.56	0.13	5.361	2.5%	206	200	FX9
FX10	2ND FLR 3 BEDROOM UNIT	65	157	90%	208	1	3X	COPPER	THREE-CONDUCTOR CABLE	STEEL	600V	187	13656	1	40.512	1.85	0.35	14.194	0.9%	206	204	FX10
FX11	2ND FLR 4 BEDROOM UNIT	250	159	90%	208	1	3X	COPPER	THREE-CONDUCTOR CABLE	STEEL	600V	187	13656	1	40.512	7.13	0.12	4.982	3.6%	206	198	FX11
FX12	3RD/4TH FLR 1 BED UNITS	100	157	90%	208	1	3X	COPPER	THREE-CONDUCTOR CABLE	STEEL	600V	187	13656	1	40.512	2.85	0.26	10.516	1.4%	206	203	FX12
FX13A	3RD/4TH FLR 2 BED FLEX	110	157	90%	208	1	3X	COPPER	THREE-CONDUCTOR CABLE	STEEL	600V	187	13656	1	40.512	3.14	0.24	9.791	1.5%	206	202	FX13A
FX13B	3RD/4TH FLR 2 BED UNITS	220	156	90%	208	1	3X	COPPER	THREE-CONDUCTOR CABLE	STEEL	600V	187	13656	1	40.512	6.28	0.14	5.568	3.1%	206	199	FX13B
FX14	3RD FLR 3 BED UNITS	80	156	90%	208	1	3X	COPPER	THREE-CONDUCTOR CABLE	STEEL	600V	187	13656	1	40.512	2.28	0.30	12.344	1.1%	206	203	FX14
FX15	3RD FLR 4 BED UNITS	260	159	90%	208	1	3X	COPPER	THREE-CONDUCTOR CABLE	STEEL	600V	187	13656	1	40.512	7.42	0.12	4.813	3.7%	206	198	FX15
FX16	4TH FLR 2 BED UNITS	225	156	90%	208	1	3X	COPPER	THREE-CONDUCTOR CABLE	STEEL	600V	187	13656	1	40.512	6.42	0.13	5.461	3.2%	206	199	FX16
FX17	4TH FLR 3 BED UNITS	165	182	90%	208	1	3X	COPPER	THREE-CONDUCTOR CABLE	STEEL	600V	187	13656	1	40.512	4.71	0.18	7.099	2.7%	206	200	FX17
FX18	4TH FLR 3 BED CORNER UNIT	95	206	90%	208	1	3X	COPPER	THREE-CONDUCTOR CABLE	STEEL	600V	187	13656	1	40.512	2.71	0.27	10.920	1.8%	206	202	FX18
FX19	4TH FLR 4 BED UNITS	270	209	90%	208	1	300	COPPER	THREE-CONDUCTOR CABLE	STEEL	600V	125	20617	1	40.512	5.10	0.16	6.640	3.4%	206	199	FX19





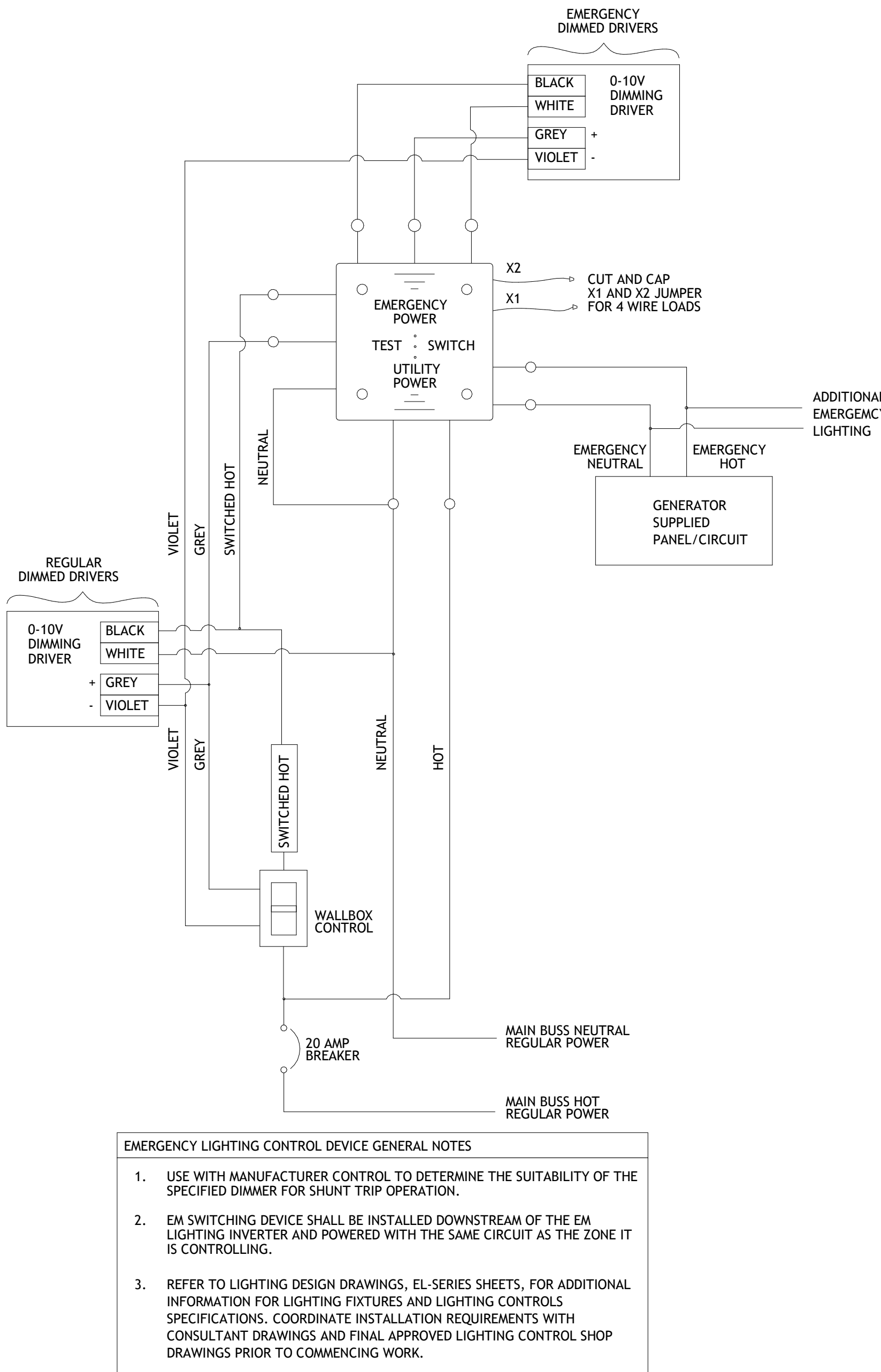
### 3 | ELECTRIC FIRE SMOKE DAMPER

E6.02 | NTS



### 2 | EMERGENCY CONTROL DEVICE DIAGRAM

E6.02 | NTS



### 1 | EMERGENCY CONTROL DEVICE DIAGRAM

E6.02 | NTS



TOWN STAMP

**359**  
DESIGN

3030 OSAGE STREET  
DENVER, CO 80202  
720.612.5457



Integrated Lighting, Technology  
and Electrical Solutions  
1900 Wazee Street Suite #205  
Denver, CO 80202 303.296.3034  
aedesign-inc.com Proj #6219.00

**The Amble**  
Steamboat Springs, CO

REVISIONS		
No.	Description	Date
1	PERMIT COMMENT RESPONSE	02/08/2024

PROJECT NUMBER: 20019  
ISSUE DATE: 03/19/2024

**The Amble**

ISSUE

**IFC SET**

SHEET TITLE

**ELECTRICAL DIAGRAMS**

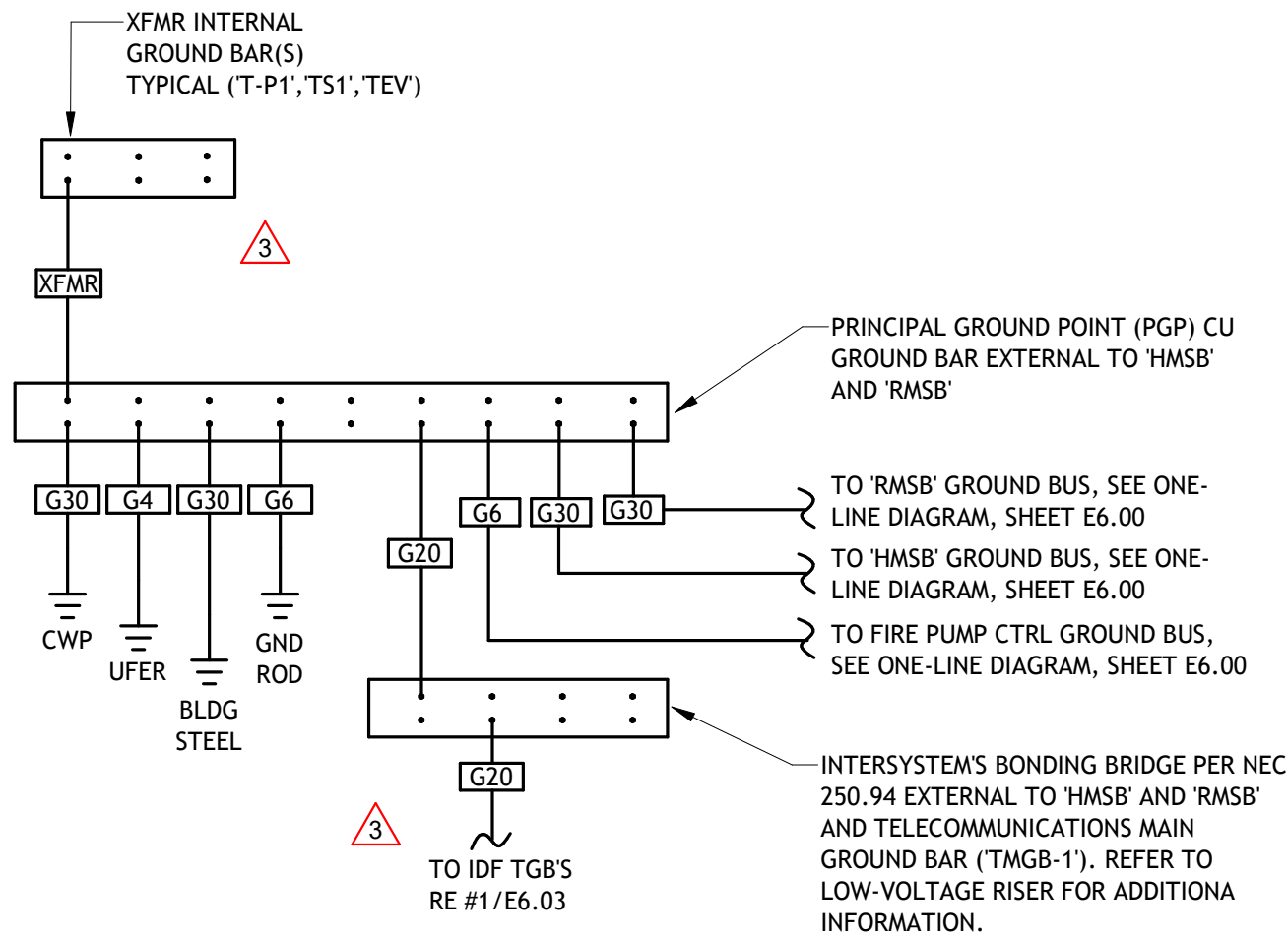
SHEET NO.

**E6.02**



## GENERAL GROUNDING NOTES

- ALL CABLES TO BE TERMINATED ONTO BUS BAR WITH TWO HOLE COMPRESSION LUGS AND ATTACHED TO BUS BAR WITH TAB COMPRESSION BELLEVILLE WASHERS AND TORK BOLT ASSEMBLY.
- ALL GROUND CONNECTORS SHALL BE STRANDED.
- ALL BUS BARS SHALL BE ATTACHED TO SURFACE WITH NON-CONDUCTIVE STAND-OFFS.
- GROUND BUS BAR AND GROUNDING SYSTEM SHALL BE UL LISTED AND COMPLY WITH MANUFACTURERS INSTALLATION INSTRUCTIONS.

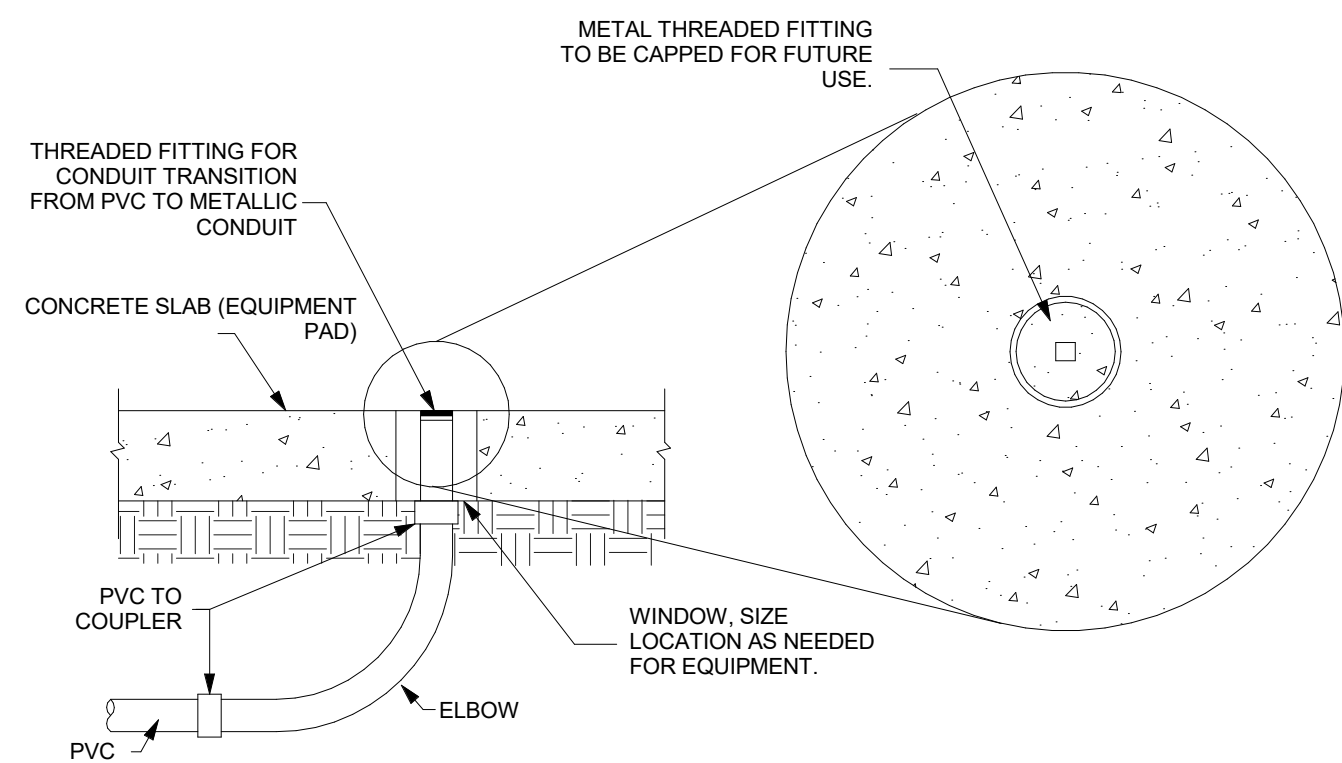


## GROUNDING ELECTRODE SYSTEMS NOTES

- METAL UNDERGROUND WATER PIPE - MAKE CONNECTION TO METAL UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH THE EARTH FOR 10' OR AND ELECTRICALLY CONTINUOUS TO THE POINTS OF CONNECTION TO THE GROUNDING ELECTRODE CONDUCTOR AND BONDING CONDUCTORS. CONNECTION POINT TO BE AT A MAXIMUM OF 5' OF THE POINT OF ENTRANCE ON THE INTERIOR OF THE BUILDING.
- BUILDING STEEL - THE METAL FRAME OF THE BUILDING OR STRUCTURE, WHERE ANY OF THE FOLLOWING METHODS ARE USED TO MAKE AN EARTH CONNECTION:
  - AT LEAST ONE STRUCTURAL METAL MEMBER THAT IS IN DIRECT CONTACT WITH THE EARTH FOR 10' OR MORE, WITH OR WITHOUT CONCRETE ENCASEMENT.
  - HOLD-DOWN BOLTS SECURING THE STRUCTURAL STEEL COLUMN THAT ARE CONNECTED TO A CONCRETE ENCASED ELECTRODE THAT COMPLIES WITH 250.52(A)(3) AND IS LOCATED IN THE SUPPORT FOOTING OR FOUNDATION. THE HOLD-DOWN BOLTS SHALL BE CONNECTED TO THE CONCRETE-ENCASED ELECTRODE BY WELDING, EXOTHERMIC WELDING, THE USUAL STEEL TIE WIRES, OR OTHER APPROVED MEANS.
- UFER GROUND (CONCRETE-ENCASED ELECTRODE) - AN ELECTRODE ENCASED BY AT LEAST 2" OF CONCRETE, LOCATED WITHIN AND NEAR THE BOTTOM OF A CONCRETE FOUNDATION OR FOOTING THAT IS IN DIRECT CONTACT WITH EARTH, CONSISTING OF AT LEAST 20' OF ONE OR MORE BARE OR ZINC GALVANIZED OR OTHER ELECTRICALLY CONDUCTIVE COATED STEEL REINFORCING BARS OR RODS OF NOT LESS THAN 1/2" IN DIAMETER, OR CONSISTING OF AT LEAST 20' OF BARE COPPER CONDUCTOR NOT SMALLER THAN NO. 4 AWG. REINFORCING BARS SHALL BE PERMITTED TO BE BONDED TOGETHER BY THE USUAL STEEL TIE WIRES OR OTHER EFFECTIVE MEANS.
- GROUND ROD - ROD IS TO BE 8FT IN LENGTH AND SHALL BE MADE OF IRON OR STEEL AT LEAST 5/8" DIAMETER. INSTALLATION METHODS FOR GROUND ROD SHALL BE IN COMPLIANCE WITH THE NEC SUCH THAT AT LEAST 8' OF LENGTH IS IN CONTACT WITH THE EARTH.

## 3 | ELEC DISTRIBUTION GROUNDING ONE-LINE DIAGRAM & NOTES

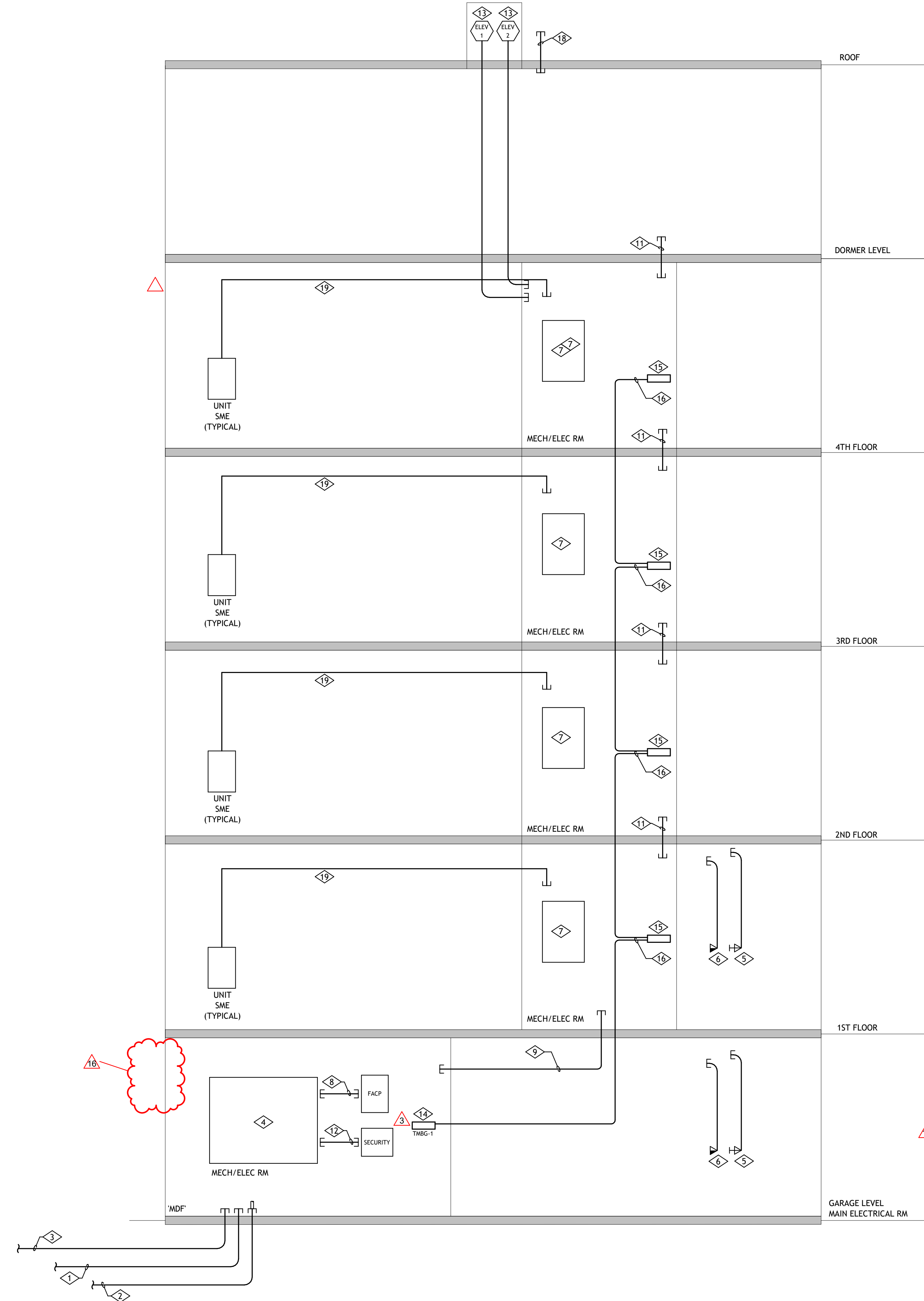
E6.03 | NTS



TYPICAL FOR POWER CONDUITS WHERE TERMINATION IS TO BE FLUSH WITH FINISHED GRADE.

## 2 | EV CHARGING CONDUIT DETAIL

E6.03 | NTS



## 1 | LOW VOLTAGE RISER DIAGRAM

E6.03 | NTS

## GENERAL NOTES

- PROVIDE EMT FOR ALL CABLING ROUTED THROUGH AREAS WITH EXPOSED STRUCTURAL CEILINGS AND THROUGH INACCESSIBLE CEILINGS. COORDINATE CONDUIT SIZE REQUIREMENTS WITH CABLE INSTALLER.
- ALL EXPOSED CONDUIT SHALL BE CONCEALED TO THE GREATEST EXTENT POSSIBLE, AND SHALL BE INSTALLED PARALLEL AND CLOSE TO STRUCTURAL MEMBERS, PAINT CONDUIT TO MATCH ADJACENT FINISHES.
- PROVIDE PULLCORD FOR ALL CONDUIT INSTALLED FOR CABLE.
- PROVIDE PULLBOXES AS REQUIRED BY ABLE INSTALLER FOR RUNS EXCEEDING MAXIMUM PULL DISTANCE, AS IDENTIFIED BY CABLE INSTALLER.
- ALL FREELY RUN ARMORED METALLIC FIBER OPTIC CABLING, CONTRACTOR SHALL GROUND CABLING ARMOR TO THE NEAREST PBB OR SBB.
- PROVIDE SLEEVES AND CONDUIT BETWEEN FLOORS FOR ROUTING OF CABLE. COORDINATE CONDUIT SIZE WITH CABLE INSTALLER. COORDINATE LOCATION OF RACEWAY WITH ARCHITECT AND CABLE INSTALLER.
- ALL CONDUIT AND CABLING IN CRAWL SPACE IS TO BE SUPPORTED BY AND TIGHT TO STRUCTURE ABOVE WHERE CONDUIT TRANSITIONS FROM BEING SUPPORTED BY STRUCTURE INTO SOIL. ADD LOOP AND/OR FLEXIBLE CONDUIT FOR ANTICIPATED SOIL MOVEMENT.
- ALL UNDERGROUND CONDUIT BENDS ARE TO BE GALVANIZED RIGID CONDUIT. UNDERGROUND CONDUIT EXTENDING ABOVE SLAB IS ALSO TO BE GALVANIZED RIGID CONDUIT. REFER TO SPECIFICATIONS FOR FULL CONDUIT REQUIREMENTS.

## KEYNOTE LEGEND

- | KEY VALUE | KEYNOTE TEXT  |
|-----------|---|
| 1.        | NEW (1) 4" PVC CONDUIT ROUTED 30" BELOW GRADE FOR CONNECTION TO SITE TELEPHONE SERVICE POINT. ELECTRICAL CONTRACTOR SHALL VERIFY CONDUIT SIZING AND QUANTITY WITH SERVICE PROVIDER PRIOR TO INSTALLATION.   |
| 2.        | NEW (1) 4" PVC CONDUIT ROUTED 30" BELOW GRADE FOR CONNECTION TO SITE FIBER OPTIC SERVICE POINT. ELECTRICAL CONTRACTOR SHALL VERIFY CONDUIT SIZING AND QUANTITY WITH SERVICE PROVIDER PRIOR TO INSTALLATION.   |
| 3.        | NEW (1) 4" PVC CONDUIT ROUTED 30" BELOW GRADE FOR CONNECTION TO SITE CATV SERVICE POINT. ELECTRICAL CONTRACTOR SHALL VERIFY CONDUIT SIZING AND QUANTITY WITH SERVICE PROVIDER PRIOR TO INSTALLATION.  |
| 4.        | GC SHALL PROVIDE MAIN TELEPHONE TERMINAL BOARD 'MTTB' CONSISTING OF 3/4 INCH, FIRE-RETARDANT TREATED PLYWOOD INSTALLED FLOOR TO CEILING IN ROOM, FOR LENGTHS AS INDICATED ON THE PLAN DRAWINGS. ALL RECEPTACLE DEVICES SHOWN IN BACKBOARD ON PLANS SHALL BE FLUSH MOUNT, UON.   |
| 5.        | NEW TYPICAL WORK AREA COMMUNICATIONS OUTLET FOR STRUCTURED CABLE TERMINATIONS. PROVIDE 2-INCH DEEP, 2-GANG BOX WITH 1-GANG PLASTER RING. PROVIDE 1" CONDUIT TO ACCESSIBLE CEILING AND BUSH END. RECEPTACLE FACEPLATE, JACK, CABLING, AND TERMINATIONS BY OTHERS.  |
| 6.        | NEW TYPICAL WORK AREA OUTLET FOR CABLE TV TERMINATION. PROVIDE 2-INCH DEEP, 2-GANG BOX WITH 1-GANG PLASTER RING. PROVIDE 1-1/4" CONDUIT TO ACCESSIBLE CEILING AND BUSH END. CATV RECEPTACLE FACEPLATE, JACK, CABLING, AND TERMINATIONS BY OTHERS.   |
| 7.        | GC SHALL PROVIDE 3/4" X 8FT HIGH, FIRE-RETARDANT SATELLITE EQUIPMENT ROOM BACKBOARD FOR LENGTHS AS INDICATED ON THE PLANS. ALL RECEPTACLE DEVICES SHOWN IN BACKBOARD ON PLANS SHALL BE FLUSH MOUNT, UON.  |
| 8.        | PROVIDE (1) 1/2" CONDUIT FOR FIRE ALARM CONTROL PANEL COMMUNICATIONS CABLING RACEWAY.   |
| 9.        | PROVIDE (4) 2" CONDUIT FOR LOW VOLTAGE CABLING RACEWAY BETWEEN MDF AND 2ND FLOOR ELECTRICAL ROOM AS INDICATED.  |
| 10.       | NOT USED.   |
| 11.       | PROVIDE (4) 2" CONDUIT SLEEVES FOR LOW VOLTAGE CABLING BETWEEN EACH FLOOR AT LOCATIONS SHOWN.   |
| 12.       | ROUTE (1) 1/2" CONDUIT FOR SECURITY CONTROL PANEL COMMUNICATIONS CABLING RACEWAY.   |
| 13.       | PROVIDE (1) 3/4" C WITH PULL WIRE TO ELEVATOR CONTROL PANEL FOR ELEVATOR COMMUNICATIONS CABLING RACEWAY. CABLING SHALL BE FURNISHED BY OTHERS.  |
| 14.       | TELECOMMUNICATIONS PRIMARY BONDING BAR 'TMGB-1' FUNCTIONING AS INTERSYSTEM BONDING TERMINATION DEVICE, COMPLYING WITH NEC 250.94.   |
| 15.       | TELECOMMUNICATIONS SECONDARY GROUNDING BAR 'SBB'.   |
| 16.       | PROVIDE #1/0AWG GREEN COPPER GROUNDING CONDUCTOR (TYPICAL) BETWEEN GROUNDING BUSSES AS INDICATED.   |
| 17.       | NOT USED.   |
| 18.       | PROVIDE (2) 2" C RACEWAY BETWEEN 6TH FLOOR ELEC ROOM/IT ROOM AND STUB OUT AT ROOF FOR FUTURE LOW VOLTAGE CABLING AND EMERGENCY RESPONDER COMM. SYSTEMS (ERCS) AS REQUIRED. EC SHALL COORDINATE EXACT STUB OUT LOCATION AT ROOF PRIOR TO ROUGH-IN.   |
| 19.       | PROVIDE (1) 1" RACEWAY WITH PULL-STRING FROM LOW-VOLTAGE TELECOMMUNICATIONS SYSTEM BACKBOARD TO EACH UNIT STRUCTURED MEDIA ENCLOSURE FOR LOW-VOLTAGE CABLING (CATEGORY 6 CABLING AND RG11 BY OTHERS). VERIFY EXACT CONDUIT SIZE AND REQUIREMENTS WITH CABLING INSTALLERS PRIOR TO COMMENCING WORK. REFER TO PLANS FOR LOCATIONS AND QUANTITIES. |



**359**  
DESIGN

3601 OSAGE STREET  
DENVER, CO 80202  
720.632.5457

**AE DESIGN**  
Integrated Lighting, Technology  
and Electrical Solutions  
1900 Wazee Street Suite #205  
Denver, CO 80202 303.296.3034  
aedesign-inc.com Proj #a219.00

**The Amble**

Steamboat Springs, CO

REVISIONS		
No.	Description	Date
1	ISSUE FOR PERMIT	07/22/2024
2	PERMIT COMMENT	08/14/2024
3	RESPONSE	08/15/2024
18	REV #1234	07/21/2024

PROJECT NUMBER: 20019  
ISSUE DATE: 03/19/2024

**The Amble**

WEEK:

**IFC SET**

SHEET TITLE:

**ELECTRICAL RISER  
DIAGRAMS AND  
DETAILS**

SHEET NO:

**E6.03**





## The Amble

Steamboat Springs, CO



1. FASTEN VIBRATION HANGER RIGIDLY TO STRUCTURE ABOVE. SIZE TO ACCOMMODATE TRANSFORMER WEIGHT. BOT TRANSFORMER TO STRUT.
2. INSTALL FLEXIBLE CONDUIT BETWEEN PRIMARY AND SECONDARY CONDUIT AND TRANSFORMER HOUSING.

### 3 | SUSPENDED TRANSFORMER DETAIL

E6.04	NTS
-------	-----



E6.04	NTS
-------	-----

## ELECTRICAL REQUIREMENTS FOR POOL BONDING

1. ALL GROUNDING AND BONDING OF ALL METALLIC PARTS ASSOCIATED WITH THE POOL AND/OR WHIRLPOOL ARE TO BE IN COMPLIANCE WITH NEC SECTION 680.
2. STRUCTURAL REINFORCING STEEL TERMINOLOGY IN NOTES BELOW REFERS TO REBAR OR WIREMESH INSTALLATIONS.
3. BONDING TO CONDUCTIVE POOL SHELLS SHALL BE ACCOMPLISHED WITH REINFORCING STEEL BONDED WITH STEEL TIE WIRES, OR EQUAL, AND SHALL THEREBY SERVE AS A COMMON BONDING GRID FOR ALL PARTS REQUIRED TO BE BONDED TOGETHER. WHERE EPOXY-COATED REBAR IS UTILIZED, THEN A COPPER CONDUCTOR GRID SYSTEM SHALL BE INSTALLED, WITH MINIMUM #8 AWG BARE SOLID CONDUCTORS BONDED AT ALL CROSS POINT. CONFORM TO THE CONTOUR OF THE POOL, BE SPACED IN A 12" X 12" GRID PATTERN, AND BE SECURED WITHIN OR UNDER THE POOL NO MORE THAN 6" FROM THE OUTER CONTOUR OF THE POOL.
4. BONDING TO PERIMETER SURFACES SHALL BE ACCOMPLISHED WITH REINFORCING STEEL REBAR BONDED WITH STEEL TIE WIRES, OR EQUAL. WHERE EPOXY-COATED REBAR IS UTILIZED, THEN A SINGLE #8 AWG COPPER, BARE, SOLID CONDUCTOR SHALL BE INSTALLED 18" TO 24" WITHIN THE INSIDE WALL OF THE POOL, AND WITHIN 4" TO 6" UNDER THE SURFACE.
5. THE FOLLOWING PARTS SHALL BE BONDED TOGETHER AND CONNECTED TO THE COMMON BONDING GRID. BONDING LUGS SHALL BE SUPPLIED BY POOL CONTRACTOR.
  - A. ALL METALLIC PARTS OF THE POOL STRUCTURE, INCLUDING COYPING STONES, DECK, PERMANENT PLAY STRUCTURES, PERMANENT EXERCISE STRUCTURES.
  - B. ALL METAL FITTINGS WITHIN OR ATTACHED TO THE POOL STRUCTURE.
  - C. METAL PARTS ASSOCIATED WITH THE POOL WATER CIRCULATING SYSTEM, INCLUDING PUMPS, FILTERS, AND HEATERS.
  - D. METAL PARTS ASSOCIATED WITH POOL COVERS.
  - E. METAL SHEATHED CABLES AND RACEWAYS, METAL PIPING, AND ALL FIXED METAL PARTS WITHIN 5 FEET HORIZONTALLY OF INSIDE WALLS OF POOL AND WITHIN 12 FEET ABOVE THE MAXIMUM WATER LEVEL OF THE POOL.
  - F. METAL PARTS ASSOCIATED WITH OBSERVATION STANDS, TOWERS, PLATFORMS, AND DIVING STRUCTURES.
  - G. METAL PARTS ASSOCIATED WITH THE POOL SLIDE TOWER, SLIDE STAIRS, AND ASSOCIATED SLIDE STRUCTURE.
6. ISOLATED PARTS THAT ARE NOT MORE THAN 4" IN ANY DIMENSION AND DO NOT GENERATE INTO THE POOL STRUCTURE MORE THAN 1" SHALL NOT REQUIRE BONDING.
7. BONDING CONDUCTORS SHALL BE MINIMUM #8 SOLID COPPER, INSULATED. E.C. SHALL COORDINATE APPROVED CONNECTOR TYPE AND METHOD WITH LOCAL ELECTRICAL AND/OR POOL INSPECTOR.
8. SPECIFIC MANUFACTURER'S INSTRUCTIONS REGARDING BONDING OR GROUNDING OF POOL EQUIPMENT, WHETHER IDENTIFIED HEREIN OR NOT, SHALL BE STRICTLY FOLLOWED.
9. THE COMMON BONDING GRID SHALL NOT BE CONNECTED TO ANY ELECTRICAL DISTRIBUTION EQUIPMENT.
10. ANY PARTS IN ADDITION TO THOSE DESCRIBED HEREIN THAT ARE INDICATED BY POOL CONTRACTOR OR LOCAL INSPECTION AUTHORITY SHALL BE BONDED TO THE COMMON BONDING GRID WITH NO ADDITIONAL COSTS INCURRED BY THE OWNER.
11. ROPE ANCHORS WHICH ARE ATTACHED TO A STAINLESS STEEL GUTTER ARE INHERENTLY BONDED TO GUTTER AND SO DO NOT REQUIRE ADDITIONAL BONDING.
12. THE ELECTRICAL CONTRACTOR SHALL COORDINATE BONDING WITH POOL CONTRACTOR AND GENERAL CONTRACTOR.



- ① BOND ALL STRUCTURAL REINFORCING STEEL TOGETHER WITH STEEL TIE WIRES AT ALL STEEL CROSSING POINTS.
- ② CONNECT STRUCTURAL REINFORCING STEEL GRID WITHIN POOL AND/OR PERIMETER POOL DECK TO UNDERWATER LIGHTING, METAL FITTINGS, ELECTRICAL EQUIPMENT, AND METAL WIRING METHODS AND EQUIPMENT IN ACCORDANCE WITH ARTICLE 680 OF THE NATIONAL ELECTRIC CODE. CONNECT WITH MINIMUM #8 SOLID AWG BARE COPPER. REFER TO GENERAL NOTE #3 ABOVE FOR CONNECTION REQUIREMENTS.

## 1 | POOL BONDING REQUIREMENTS

E6.04	NTS
-------	-----

[illegible]

PROJECT NUMBER	20019
ISSUE DATE	03/15/2024

## The Amble

---

ISSUE

**IFC SET**

SHEET TITLE

## ELECTRICAL DETAILS

SHEET NO. \_\_\_\_\_

## E6.04



## LOAD SUMMARY RMSB

UNIT QTY: = 92

LIGHTING & GENERAL RECEPTABLES			
AREA(S.F.):	VA / S.F.	LOAD	
70,797	3	212,391	VA
SMALL APPLIANCES			
QTY	VA / EA	LOAD	
84	1,500	126,000	VA
LAUNDRY CIRCUITS:			
42	1,500	63,000	VA
		401,391	VA
APPLIANCES:			
APPLIANCE	#	LOAD	
MICROWAVE	42	1,000 VA	= 42,000 VA
HOOD OVER COOKTOP	42	250 VA	= 10,500 VA
DISHWASHER	42	1,200 VA	= 50,400 VA
GARBAGE DISPOSAL	42	1,176 VA	= 49,392 VA
WASHING MACHINE	42	1,500 VA	= 63,000 VA
HOT TUB	3	10,000 VA	= 30,000 VA
FIREPLACE FAN&HEATER	42	2,300 VA	= 2,300 VA
			247,592 VA
ELECTRIC COOKING			
OVEN/RANGE	84	8,000 VA	= 672,000 VA
			672,000 VA
DRYERS:			
ELECTRIC DRYER	42	5,000 VA	= 210,000 VA
HEATING AND AIR CONDITIONING LOADS:			
HEAT PUMP			
HP-X-XX	69	1997 VA	= 137779.2 VA
		100%	= 137779.2 VA
THERMAL STORAGE OR OTHER HEATING SYSTEMS			
ERV-X-XX	61	1498 VA	= 91353.6 VA
		65% X	= 59379.84 VA
		MAN LOAD:	= 137779 VA
DEMAND LOADS			
TOTAL ELECTRICAL LOAD			1,668,762 VA
DEMAND FACTOR BASED ON	42	UNITS	28%
TOTAL ELECTRICAL LOAD WITH DEMAND APPLIED			467,253 VA
AMPS AT 208V/1-PHASE			2,246 A
AMPS AT 208V/3-PHASE			1,299 A

#### LOAD SUMMARY (OPTIONAL CALCULATION NEC220.84)

LIGHTING & GENERAL RECEPTACLES		UNIT QTY: = 20	
AREA(S.F.):	31,746	VA / S.F.	LOAD
		3	= 95,238 VA
SMALL APPLIANCES			
QTY	40	VA / EA	LOAD
		1,500	= 60,000 VA
LAUNDRY CIRCUITS:			
	20	1,500	= 30,000 VA
			185,238 VA
APPLIANCES:			
APPLIANCE	#	LOAD	
MICROWAVE	20	1,000 VA	= 20,000 VA
HOOD OVER COOKTOP	20	250 VA	= 5,000 VA
DISHWASHER	20	1,200 VA	= 24,000 VA
GARBAGE DISPOSAL	20	1,176 VA	= 23,520 VA
WASHING MACHINE	20	1,500 VA	= 30,000 VA
FIREPLACE FAN&HEATER	20	2,300 VA	= 2,300 VA
			104,820 VA
ELECTRIC COOKING			
OVEN/RANGE	40	8,000 VA	= 320,000 VA
			320,000 VA
DRYERS:			
ELECTRIC DRYER	20	5,000 VA	= 100,000 VA
HEATING AND AIR CONDITIONING LOADS:			
HEAT PUMP			
HP-X-XX	29	1997 VA	= 57907.2 VA
		100% X	= 57907.2 VA
THERMAL STORAGE OR OTHER HEATING SYSTEMS			
ERV-X-XX	25	1498 VA	= 37440 VA
		65% X	= 24336 VA
			MAX LOAD 57907 VA
DEMAND LOADS			
TOTAL ELECTRICAL LOAD			767,965 VA
DEMAND FACTOR BASED ON	20	UNITS	38%
TOTAL ELECTRICAL LOAD WITH DEMAND ADJUSTED			291,827 VA
AMPS AT 208V/1-PHASE			1,403 A
AMPS AT 208V/3-PHASE			811 A

#### LOAD SUMMARY (OPTIONAL CALCULATION NEC220.84)

LIGHTING & GENERAL RECEPTACLES				UNIT QTY: =	22
	AREA(S.F.):	VA / S.F.		LOAD	
	39,051	3	=	117,153	VA
SMALL APPLIANCES					
	QTY	VA / EA		LOAD	
	44	1,500	=	66,000	VA
LAUNDRY CIRCUITS:					
	22	1,500	=	33,000	VA
				216,153	VA
APPLIANCES:					
	APPLIANCE	#	LOAD		
	MICROWAVE	22	1,000 VA	=	22,000 VA
	HOOD OVER COOKTOP	22	250 VA	=	5,500 VA
	DISHWASHER	22	1,200 VA	=	26,400 VA
	GARBAGE DISPOSAL	22	1,176 VA	=	25,872 VA
	WASHING MACHINE	22	1,500 VA	=	33,000 VA
	HOT TUB	3	10,000 VA	=	30,000 VA
	FIREPLACE FAN&HEATER	22	2,300 VA	=	2,300 VA
					145,072 VA
					9
ELECTRIC COOKING					
	OVEN/RANGE	44	8,000 VA	=	352,000 VA
					352,000 VA
DRYERS:					
	ELECTRIC DRYER	22	5,000 VA	=	110,000 VA
HEATING AND AIR CONDITIONING LOADS:					
	HEAT PUMP				
	HP-X-XX				
		40	1997 VA	=	79872 VA
			100% X	=	79872 VA
	THERMAL STORAGE OR OTHER HEATING SYSTEMS				
	ERV-X-XX	36	1498 VA	=	53913.6 VA
			65% X	=	35043.84 VA
					79872 VA
					MAX LOAD
DEMAND LOADS					
	TOTAL ELECTRICAL LOAD				903,097 VA
	DEMAND FACTOR BASED ON	22	UNITS		36%
					3
	TOTAL ELECTRICAL LOAD WITH DEMAND APPLIED				325,115 VA
	AMPS AT 208V/1-PHASE				1,563 A
	AMPS AT 208V/3-PHASE				903 A
					9



TOWN STAMP

359  
DESIGN

2633 OSAGE STREET  
DENVER, CO 80211  
720.512.3637



AE DESIGN

Integrated Lighting, Technology  
and Electrical Solutions

1900 Wazee Street Suite #205  
Denver, CO 80202 303.296.3034  
[aedesign-inc.com](http://aedesign-inc.com) Proj #:6219.00

## The Amble

Steamboat Springs, CO

## REVISIONS

[illegible]

PROJECT NUMBER	20019
ISSUE DATE	03/15/2024

## The Amble

## RESULTS

**IFC SET**

SHEET TITLE

### ELECTRICAL RESIDENTIAL RISER LOAD SUMMARY

SHEET NO. \_\_\_\_\_

### E6.05







LOAD SUMMARY (OPTIONAL CALCULATION NEC220.84)									
UNIT NO.: 3BF - 3 BED FLEX & FLEX 01									
LIGHTING & GENERAL RECEPTACLES									
AREAS (F.):	VA / S.F.			LOAD					
1,756	3	=		5,268	VA				
SMALL APPLIANCES									
2	1,500	=		3,000	VA				
LAUNDRY CIRCUITS:									
1	1,500	=		1,500	VA				
				9,768	VA				
APPLIANCES:									
APPLIANCE	#			LOAD					
MICROWAVE	1			1,000	VA	=		1,000	VA
DISHWASHER	1			1,200	VA	=		1,200	VA
GARBAGE DISPOSAL	1			1,176	VA	=		1,176	VA
WASHING MACHINE	1			1,500	VA	=		1,500	VA
FIREPLACE FAN&HEATER	1			2,300	VA	=		2,300	VA
								7,176	VA
ELECTRIC COOKING									
RANGE/OVEN	2			8,000	VA	=		16,000	VA
								16,000	VA
DRYERS:									
ELECTRIC DRYER	1			5,000	VA	=		5,000	VA
								5,000	VA
DEMAND LOADS									
GENERAL LOADS								37,944	VA
1ST 10KW				100% NEC DEMAND				10,000	VA
REMAINDER				40% NEC DEMAND				11,178	VA
HEATING AND AIR CONDITIONING LOADS:									
HEAT PUMP									
HP-X-XX	2			2267	VA	=		4534.4	VA
				100% X		=		4534.4	VA
THERMAL STORAGE OR OTHER HEATING SYSTEMS									
ERV-X-XX	1			1498	VA	=		1497.6	VA
				65% X		=		973.44	VA
								4534	VA
								MAX LOAD	
								25,712	VA
								AMPS AT 208V, 1PH	123.6 AMPS

LOAD SUMMARY (OPTIONAL CALCULATION NEC220.84)									
UNIT NO.: 3BF - 3 BED FLEX LOFT									
LIGHTING & GENERAL RECEPTACLES									
AREAS (F.):	VA / S.F.			LOAD					
1,756	3	=		5,268	VA				
SMALL APPLIANCES									
2	1,500	=		3,000	VA				
LAUNDRY CIRCUITS:									
2	1,500	=		3,000	VA				
				11,268	VA				
APPLIANCES:									
APPLIANCE	#			LOAD					
MICROWAVE	1			1,000	VA	=		1,000	VA
DISHWASHER	1			1,200	VA	=		1,200	VA
GARBAGE DISPOSAL	1			1,176	VA	=		1,176	VA
WASHING MACHINE	2			1,500	VA	=		3,000	VA
FIREPLACE FAN&HEATER	1			2,300	VA	=		2,300	VA
								8,676	VA
ELECTRIC COOKING									
RANGE/OVEN	2			8,000	VA	=		16,000	VA
								16,000	VA
DRYERS:									
ELECTRIC DRYER	2			5,000	VA	=		10,000	VA
								10,000	VA
DEMAND LOADS									
GENERAL LOADS								45,944	VA
1ST 10KW				100% NEC DEMAND				10,000	VA
REMAINDER				40% NEC DEMAND				14,378	VA
HEATING AND AIR CONDITIONING LOADS:									
HEAT PUMP									
HP-X-XX	3			2371	VA	=		7113.6	VA
				100% X		=		7113.6	VA
THERMAL STORAGE OR OTHER HEATING SYSTEMS									
ERV-X-XX	2			1498	VA	=		2995.2	VA
				65% X		=		1946.88	VA
								7114	VA
								MAX LOAD	
								31,491	VA
								AMPS AT 208V, 1PH	151.4 AMPS

LOAD SUMMARY (OPTIONAL CALCULATION NEC220.84)									
UNIT NO.: 3BS - 3 BED STANDARD & TYPE A									
LIGHTING & GENERAL RECEPTACLES									
AREAS (F.):	VA / S.F.			LOAD					
1,729	3	=		5,187	VA				
SMALL APPLIANCES									
2	1,500	=		3,000	VA				
LAUNDRY CIRCUITS:									
1	1,500	=		1,500	VA				
				9,687	VA				
APPLIANCES:									
APPLIANCE	#			LOAD					
MICROWAVE	1			1,000	VA	=		1,000	VA
DISHWASHER	1			1,200	VA	=		1,200	VA
GARBAGE DISPOSAL	1			1,176	VA	=		1,176	VA
WASHING MACHINE	1			1,500	VA	=		1,500	VA
FIREPLACE FAN&HEATER	1			2,300	VA	=		2,300	VA
								7,176	VA
ELECTRIC COOKING									
RANGE/OVEN	2			8,000	VA	=		16,000	VA
								16,000	VA
DRYERS:									
ELECTRIC DRYER	1			5,000	VA	=		5,000	VA
								5,000	VA
DEMAND LOADS									
GENERAL LOADS								37,863	VA
1ST 10KW				100% NEC DEMAND				10,000	VA
REMAINDER				40% NEC DEMAND				11,145	VA
HEATING AND AIR CONDITIONING LOADS:									
HEAT PUMP									
HP-X-XX	2			2267	VA	=		4534.4	VA
				100% X		=		4534.4	VA
THERMAL STORAGE OR OTHER HEATING SYSTEMS									
ERV-X-XX	1			1498	VA	=		1497.6	VA
				65% X		=		973.44	VA
								4534	VA
								MAX LOAD	
								25,680	VA
								AMPS AT 208V, 1PH	123.5 AMPS

LOAD SUMMARY (OPTIONAL CALCULATION NEC220.84)									
UNIT NO.: 3BC - 3 BED STANDARD LOFT									
LIGHTING & GENERAL RECEPTACLES									
AREAS (F.):	VA / S.F.			LOAD					
1,729	3	=		5,187	VA				
SMALL APPLIANCES									
2	1,500	=		3,000	VA				
LAUNDRY CIRCUITS:									
2	1,500	=		3,000	VA				
				11,187	VA				
APPLIANCES:									
APPLIANCE	#			LOAD					
MICROWAVE	1			1,000	VA	=		1,000	VA
DISHWASHER	1			1,200	VA	=		1,200	VA
GARBAGE DISPOSAL	1			1,176	VA	=		1,176	VA
WASHING MACHINE	2			1,500	VA	=		3,000	VA
FIREPLACE FAN&HEATER	1			2,300	VA	=		2,300	VA
								8,676	VA
ELECTRIC COOKING									
RANGE/OVEN	2			8,000	VA	=		16,000	VA
								16,000	VA
DRYERS:									
ELECTRIC DRYER	2			5,000	VA	=		10,000	VA
								10,000	VA
DEMAND LOADS									
GENERAL LOADS								45,863	VA
1ST 10KW				100% NEC DEMAND				10,000	VA
REMAINDER				40% NEC DEMAND				14,345	VA
HEATING AND AIR CONDITIONING LOADS:									
HEAT PUMP									
HP-X-XX	3			2267	VA	=		6801.6	VA
				100% X		=		6801.6	VA
THERMAL STORAGE OR OTHER HEATING SYSTEMS									
ERV-X-XX	2			1498	VA	=		2995.2	VA
				65% X		=		1946.88	VA
								6802	VA
								MAX LOAD	
								31,147	VA
								AMPS AT 208V, 1PH	149.7 AMPS

LOAD SUMMARY (OPTIONAL CALCULATION NEC220.84)									
UNIT NO.: 3BC - 3 BED CORNER									
LIGHTING & GENERAL RECEPTACLES									
AREA(S.F.):	VA / S.F.			LOAD					
1,883	3	=		5,649	VA				
SMALL APPLIANCES									
2	1,500	=		3,000	VA				
LAUNDRY CIRCUITS:									
1	1,500	=		1,500	VA				
				10,149	VA				
APPLIANCES:									
APPLIANCE	#			LOAD					
MICROWAVE	1			1,000	VA	=		1,000	VA
DISHWASHER	1			1,200	VA	=		1,200	VA
GARBAGE DISPOSAL	1			1,176	VA	=		1,176	VA
WASHING MACHINE	1			1,500	VA	=		1,500	VA
WINE COOLER	1			240	VA	=		240	VA
FIREPLACE FAN&HEATER	1			2,300	VA	=		2,300	VA
								7,416	VA
ELECTRIC COOKING									
RANGE/OVEN	2			8,000	VA	=		16,000	VA
								16,000	VA
DRYERS:									
ELECTRIC DRYER	1			5,000	VA	=		5,000	VA
								5,000	VA
DEMAND LOADS									
GENERAL LOADS								38,565	VA
1ST 10KW				100% NEC DEMAND				10,000	VA
REMAINDER				40% NEC DEMAND				11,426	VA
HEATING AND AIR CONDITIONING LOADS:									
HEAT PUMP	2 <sup>27</sup>			100% X				4534.4	VA
HP-X-XX	2			2267	VA	=		4534.4	VA
				100% X				4534.4	VA
THERMAL STORAGE OR OTHER HEATING SYSTEMS									
ERV-X-XX	2			1498	VA	=		2995.2	VA
				65% X				1946.88	VA
								4534	VA
				MAX LOAD		=		Δ	
TOTAL ELECTRICAL LOAD WITH DEMAND FACTORS = 25,960 VA									
AMPS AT 208V, 1PH = 124.8 AMPS									



LOAD SUMMARY (OPTIONAL CALCULATION NEC220.84)					
UNIT NO.: 4BE - 4 BED EAST					
LIGHTING & GENERAL RECEPTILES					
AREAS (F.):	VA / S.F.				
2,423	3	=	7,269	VA	
SMALL APPLIANCES					
2	1,500	=	3,000	VA	
LAUNDRY CIRCUITS:					
1	1,200	=	1,200	VA	
			11,469	VA	
APPLIANCES:					
APPLIANCE	#	LOAD			
MICROWAVE	1	1,000 VA	=	1,000	VA
DISHWASHER	1	1,200 VA	=	1,200	VA
GARBAGE DISPOSAL	1	1,176 VA	=	1,176	VA
WASHING MACHINE	1	1,500 VA	=	1,500	VA
WINE COOLER	1	240 VA	=	240	VA
FIREPLACE FAN&HEATER	1	2,300 VA	=	2,300	VA
				7,416	VA
ELECTRIC COOKING					
RANGE/OVEN	2	8,000 VA	=	16,000	VA
				16,000	VA
DRYERS:					
ELECTRIC DRYER	1	5,000 VA	=	5,000	VA
				5,000	VA
DEMAND LOADS					
GENERAL LOADS				39,885	VA
1ST 10KW		100% NEC DEMAND		10,000	VA
REMAINDER		40% NEC DEMAND		11,954	VA
HEATING AND AIR CONDITIONING LOADS:					
HEAT PUMP					
HP-X-XX	2	2371 VA		4742	VA
		100% X		4742	VA
THERMAL STORAGE OR OTHER HEATING SYSTEMS					
ERV-X-XX	2	1498 VA		2995	VA
		65% X		1946	88
		MAX LOAD		4742	VA
TOTAL ELECTRICAL LOAD WITH DEMAND FACTORS = 26,696 VA					
AMPS AT 208V, 1PH = 128.3 AMPS					

LOAD SUMMARY (OPTIONAL CALCULATION NEC220.64)					
UNIT NO.: 4BE - 4 BED EAST LOFT					
LIGHTING & GENERAL RECEPTACLES					
AREA(S.F.):	VA / S.F.		LOAD		
3,035	3	=	9,105	VA	
SMALL APPLIANCES					
2	1,500	=	3,000	VA	
LAUNDRY CIRCUITS:					
1	1,500	=	1,500	VA	
			13,605	VA	
APPLIANCES:					
	APPLIANCE	#	LOAD		
	MICROWAVE	1	1,000 VA	=	1,000 VA
	DISHWASHER	1	1,200 VA	=	1,200 VA
	GARBAGE DISPOSAL	1	1,176 VA	=	1,176 VA
	WASHING MACHINE	1	1,500 VA	=	1,500 VA
3	HOT TUB	1	10,000 VA	=	10,000 VA
	WINE COOLER	1	240 VA	=	240 VA
	FIREPLACE FAN&HEATER	1	2,300 VA	=	2,300 VA
					17,416 VA
ELECTRIC COOKING					
	RANGE/OVEN	2	8,000 VA	=	16,000 VA
					16,000 VA
DRYERS:					
	ELECTRIC DRYER	1	5,000 VA	=	5,000 VA
					5,000 VA
DEMAND LOADS					
GENERAL LOADS					52,021 VA
	1ST 10KW		100% NEC DEMAND		10,000 VA
	REMAINDER		40% NEC DEMAND		16,808 VA
HEATING AND AIR CONDITIONING LOADS:					
HEAT PUMP					
	HP-X-XX	3	2371 VA		7113.6 VA
		100% X	=		7113.6 VA
THERMAL STORAGE OR OTHER HEATING SYSTEMS					
	ERV-X-XX	3	1498 VA		4492.8 VA
		65% X	=	2920.32 VA	
			MIN LOAD	=	7114 VA
TOTAL ELECTRICAL LOAD WITH DEMAND FACTORS = 33,922 VA					
AMPS AT 208V, 1PH = 163.1 AMP					

LOAD SUMMARY (OPTIONAL CALCULATION NEC220.84)					
UNIT NO.: 4BN - 4 BED NORTH					
LIGHTING & GENERAL RECEPTACLES					
AREA(S F.):	VA / S.F.		LOAD		
2,263	3	=	6,789	VA	
SMALL APPLIANCES					
2	1,500	=	3,000	VA	
LAUNDRY CIRCUITS:					
1	1,500	=	1,500	VA	
			11,289	VA	
APPLIANCES:					
	APPLIANCE	#	LOAD		
	MICROWAVE	1	1,000 VA	=	1,000 VA
	DISHWASHER	1	1,200 VA	=	1,200 VA
	GARBAGE DISPOSAL	1	1,176 VA	=	1,176 VA
3	WASHING MACHINE	1	1,500 VA	=	1,500 VA
	WINE COOLER	1	240 VA	=	240 VA
	FIREPLACE FAN&HEATER	1	2,300 VA	=	2,300 VA
					7,416 VA
ELECTRIC COOKING					
	RANGE/OVEN	2	8,000 VA	=	16,000 VA
					16,000 VA
DRYERS:					
	ELECTRIC DRYER	1	5,000 VA	=	5,000 VA
					5,000 VA
DEMAND LOADS					
	GENERAL LOADS				39,705 VA
	1ST 10KW	100% NEC DEMAND			10,000 VA
	REMAINDER	40% NEC DEMAND			11,882 VA
HEATING AND AIR CONDITIONING LOADS:					
	HEAT PUMP	29	27		
	HP-X-XX	2	2371 VA		4742.4 VA
			100% X		4742.4 VA
	THERMAL STORAGE OR OTHER HEATING SYSTEMS				
	ERV-X-XX	2	1498 VA		2995.2 VA
			65% X		1948.88 VA
			MAX. COND. =	3	4742 VA
TOTAL ELECTRICAL LOAD WITH DEMAND FACTORS = 26,624 VA					
AMPS AT 208V, 1PH = 128.0 AMPS					

LOAD SUMMARY (OPTIONAL CALCULATION NEC220.84)					
UNIT NO.: 4BN - 4 BED NORTH LOFT					
LIGHTING & GENERAL RECEPTABLES:					
AREA(S.F.):	VA / S.F.		LOAD		
2,886	3	=	8,658	VA	
SMALL APPLIANCES					
2	1,500	=	3,000	VA	
LAUNDRY CIRCUITS:					
1	1,500	=	1,500	VA	
			13,158	VA	
APPLIANCES:					
APPLIANCE	#	LOAD			
MICROWAVE	1	1,000 VA	=	1,000	VA
DISHWASHER	1	1,200 VA	=	1,200	VA
GARBAGE DISPOSAL	1	1,176 VA	=	1,176	VA
WASHING MACHINE	1	1,500 VA	=	1,500	VA
HOT TUB	1	10,000 VA	=	10,000	VA
WINE COOLER	1	240 VA	=	240	VA
FIREPLACE FAN&HEATER	1	2,300 VA	=	2,300	VA
				17,416	VA
ELECTRIC COOKING					
RANGE/OVEN	2	8,000 VA	=	16,000	VA
				16,000	VA
DRYERS:					
ELECTRIC DRYER	1	5,000 VA	=	5,000	VA
				5,000	VA
DEMAND LOADS					
GENERAL LOADS				51,574	VA
1ST 10KW		100% NEC DEMAND		10,000	VA
REMAINDER		40% NEC DEMAND		16,630	VA
HEATING AND AIR CONDITIONING LOADS:					
HEAT PUMP	25	27			
HP-X-XX	3	2371 VA		7113.6	VA
		100% X		7113.6	VA
THERMAL STORAGE OR OTHER HEATING SYSTEMS					
ERV-X-XX	3	1498 VA		4492.8	VA
		65% X		2920.32	VA
		MAX LOAD	=	7114	VA
TOTAL ELECTRICAL LOAD WITH DEMAND FACTORS = 33,743 VA					
AMPS AT 208V, 1PH = 162.2 AMP					



TOWN STAFF

359  
DESIGN

2633 OSAGE STREET  
DENVER, CO 80211  
720.512.3437



**AE DESIGN**  
Integrated Lighting, Technology  
and Electrical Solutions  
1900 Wazee Street Suite #205  
Denver, CO 80202 303.296.3034  
aedesign-inc.com Proj #:6219.00

1900 Wazee Street Suite #205  
Denver, CO 80202 303.296.3034  
[aedesign-inc.com](http://aedesign-inc.com) Proj #:6219.00

## The Amble

Steamboat Springs, CO

[illegible]

PROJECT NUMBER	20019
ISSUE DATE	03/15/2024

## The Amble

1850

**IFC SET**

SHEET TITLE

## ELECTRICAL RESIDENTIAL LOAD SUMMARY 4 BEDRMS

SHEET NO.

### E6.14



LOAD CENTER '1BS'										
VOLTAGE L-L:		208			LOCATION:		VARIES, SEE PLANS			
VOLTAGE L-G:		120			BUS RATING:		150A			
TYPE:		1PH/3W			MAIN CB:		M.L.O.			
MOUNTING:		RECESSED			AIC RATING:		VARIES, SEE ONE-LINE DIAGRAM			
NOTES:		1 BEDRM STANDARD - 1BS			FED FROM:		VARIES, SEE ONE-LINE DIAGRAM			
CIR. NO	LOAD DESCRIPTION	CIRCUIT BREAKER			BUS	CIRCUIT BREAKER			LOAD DESCRIPTION	CIR NO
		POLE	TRIP	TYPE		TYPE	TRIP	POLE		
1	HEAT PUMP UNIT HP-X-XX	2	20		A	GFCI	40	2	RANGE	2
3	--	--	--		B	GFCI	--	--	--	4
5	ERV UNIT ERV-X-XX	2	15		A	GFCI	30	2	DRYER	6
7	-	-	-		B	GFCI	--	--	--	8
9	DISHWASHER	1	20	DUAL	A	DUAL	20	1	BATHROOM CIRCUIT	10
11	DISPOSAL	1	20	DUAL	B	AFCI	15	1	LIGHTING/RECEPTACLES	12
13	MICROWAVE/HOOD	1	20	DUAL	A	AFCI	15	1	LIGHTING/RECEPTACLES	14
15	KITCHEN APPLIANCE RECEPT.	1	20	DUAL	B	AFCI	15	1	LIGHTING/RECEPTACLES	16
17	KITCHEN APPLIANCE RECEPT.	1	20	DUAL	A	AFCI	15	1	LIGHTING/RECEPTACLES	18
19	KITCHEN APPLIANCE RECEPT.	1	20	DUAL	B		20	1	SME	20
21	REFRIGERATOR	1	20	DUAL	A	GFCI	40	2	OVEN	22
23	LAUNDRY CIRCUIT	1	20	DUAL	B	GFCI	--	--	--	24
25	FIREPLACE	1	20	AFCI	A	AFCI	20	1	SPARE	26
27	FIREPLACE FAN	1	20	AFCI	B				BUSSED SPACE	28
29	SPARE	1	20		A				BUSSED SPACE	30
BREAKER TYPES: AFCI: CIRCUIT BREAKER TO BE AFCI PROTECTED. GFCI: CIRCUIT BREAKER TO BE GFCI PROTECTED. DUAL: CIRCUIT BREAKER TO BE DUAL FUNCTION AFCI AND GFCI PROTECTED.										

LOAD CENTER '2BS LOFT'										
VOLTAGE L-L: VOLTAGE L-G: TYPE: MOUNTING: NOTES:		208 120 1PH/3W RECESSED 2 BEDRM STANDARD LOFT - 2BS LOFT		LOCATION: BUS RATING: MAIN CB: AIC RATING: FED FROM:		VARIES, SEE PLANS 200A M.L.O. VARIES, SEE ONE-LINE DIAGRAM VARIES, SEE ONE-LINE DIAGRAM				
CIR. NO	LOAD DESCRIPTION	CIRCUIT BREAKER			BUS	CIRCUIT BREAKER			LOAD DESCRIPTION	CIR NO
		POLE	TRIP	TYPE		TYPE	TRIP	POLE		
1	HEAT PUMP UNIT HP-X-XX	2	20		A	GFCI	40	2	RANGE	2
3	--	--	--		B	GFCI	--	--	--	4
5	HEAT PUMP UNIT HP-X-XX	2	20		A	GFCI	30	2	DRYER	6
7	--	-	-		B	GFCI	--	--	--	8
9	DISHWASHER	1	20	DUAL	A	DUAL	20	1	BATHROOM CIRCUIT	10
11	DISPOSAL	1	20	DUAL	B	AFCI	15	1	LIGHTING/RECEPTACLES	12
13	MICROWAVE/HOOD	1	20	DUAL	A	AFCI	15	1	LIGHTING/RECEPTACLES	14
15	KITCHEN APPLIANCE RECEPT.	1	20	DUAL	B	AFCI	15	1	LIGHTING/RECEPTACLES	16
17	KITCHEN APPLIANCE RECEPT.	1	20	DUAL	A	AFCI	15	1	LIGHTING/RECEPTACLES	18
19	KITCHEN APPLIANCE RECEPT.	1	20	DUAL	B		20	1	SME	20
21	REFRIGERATOR	1	20	AFCI	A	AFCI	20	1	SPARE	22
23	LAUNDRY CIRCUIT	1	20	AFCI	B		15	2	ERV UNIT ERV-X-XX	24
25	FIREPLACE	1	20	AFCI	A		--	--	--	26
27	FIREPLACE FAN	1	20	AFCI	B	GFCI	40	2	OVEN	28
29	ERV UNIT ERV X-XX	2	15		A	GFCI	--	--	--	30
31	--	--	--		B	GFCI	20	1	SPARE	32
33	SPARE	1	20		A		20	1	SPARE	34
35	SPARE	1	20		B		20	1	SPARE	36
37	SPARE	1	20		A		20	1	SPARE	38
39	SPARE	1	20		B				BUSSED SPACE	40
41	SPARE	1	20		A				BUSSED SPACE	42
BREAKER TYPES: AFCI: CIRCUIT BREAKER TO BE AFCI PROTECTED. GFCI: CIRCUIT BREAKER TO BE GFCI PROTECTED. DUAL: CIRCUIT BREAKER TO BE DUAL FUNCTION AFCI AND GFCI PROTECTED.										

LOAD CENTER '3BF LOFT'											
VOLTAGE L-L: VOLTAGE L-G: TYPE: MOUNTING: NOTES:		208 120 1PH/3W RECESSED 3 BEDRM FLEX - 3BF LOFT		LOCATION: BUS RATING: MAIN CB: AIC RATING: FED FROM:		VARIES, SEE PLANS 200A M.L.O. VARIES, SEE ONE-LINE DIAGRAM VARIES, SEE ONE-LINE DIAGRAM					
CIR. NO	LOAD DESCRIPTION	CIRCUIT BREAKER			BUS	CIRCUIT BREAKER			LOAD DESCRIPTION	CIR NO	
		POLE	TRIP	TYPE		TYPE	TRIP	POLE			
1	HEAT PUMP UNIT HP-X-XX	2	20		A	GFCI	40	2	RANGE	2	
3	--	--	--		B	GFCI	--	--	--	4	
5	HEAT PUMP UNIT HP-X-XX	2	20		A	GFCI	30	2	DRYER	6	
7	--	-	-		B	GFCI	--	--	--	8	
9	DISHWASHER	1	20	DUAL	A	DUAL	20	1	BATHROOM CIRCUIT	10	
11	DISPOSAL	1	20	DUAL	B	AFCI	15	1	LIGHTING/RECEPTACLES	12	
13	MICROWAVE/HOOD	1	20	DUAL	A	AFCI	15	1	LIGHTING/RECEPTACLES	14	
15	KITCHEN APPLIANCE RECEPT.	1	20	DUAL	B	AFCI	15	1	LIGHTING/RECEPTACLES	16	
17	KITCHEN APPLIANCE RECEPT.	1	20	DUAL	A	AFCI	15	1	LIGHTING/RECEPTACLES	18	
19	KITCHEN APPLIANCE RECEPT.	1	20	DUAL	B		20	1	SME	20	
21	REFRIGERATOR	1	20	DUAL	A	AFCI	20	1	SPARE	22	
23	LAUNDRY CIRCUIT	1	20	DUAL	B		20	2	HEAT PUMP UNIT HP-X-XX	24	
25	FIREPLACE	1	20	AFCI	A		--	--	--	26	
27	FIREPLACE FAN	1	20	AFCI	B		15	2	ERV UNIT ERV-X-XX	28	
29	DRYER	2	30	GFCI	A		--	--	--	30	
31	--	--	--		GFCI	B	GFCI	40	2	OVEN	32
33	LAUNDRY CIRCUIT	1	20	DUAL	A	GFCI	--	--	--	34	
35	ERV UNIT ERV-X-XX	--	2	15	B	GFCI	20	1	SPARE	36	
37	--	--	--		A		20	1	SPARE	38	
39	SPARE	1	20		B				BUSSED SPACE	40	
41	SPARE	1	20		A				BUSSED SPACE	42	
BREAKER TYPES: AFCI: CIRCUIT BREAKER TO BE AFCI PROTECTED. GFCI: CIRCUIT BREAKER TO BE GFCI PROTECTED. DUAL: CIRCUIT BREAKER TO BE DUAL FUNCTION AFCI AND GFCI PROTECTED.											

LOAD CENTER '2BF'										
VOLTAGE L-L:		208			LOCATION:		VARIES, SEE PLANS			
VOLTAGE L-G:		120			BUS RATING:		150A			
TYPE:		1PH/3W			MAIN CB:		M.L.O.			
MOUNTING:		RECESSED			AIC RATING:		VARIES, SEE ONE-LINE DIAGRAM			
NOTES:		2 BEDRM FLEX - 2BF			FED FROM:		VARIES, SEE ONE-LINE DIAGRAM			
CIR. NO	LOAD DESCRIPTION	CIRCUIT BREAKER			BUS	CIRCUIT BREAKER			LOAD DESCRIPTION	CIR NO
		POLE	TRIP	TYPE		TYPE	TRIP	POLE		
1	HEAT PUMP UNIT HP-X-XX	2	20		A	GFCI	40	2	RANGE	2
3	--	--	--		B	GFCI	--	--	--	4
5	ERV UNIT ERV-X-XX	2	15		A	GFCI	30	2	DRYER	6
7	-	-	-		B	GFCI	--	--	--	8
9	DISHWASHER	1	20	DUAL	A	DUAL	20	1	BATHROOM CIRCUIT	10
11	DISPOSAL	1	20	DUAL	B	AFCI	15	1	LIGHTING/RECEPTACLES	12
13	MICROWAVE/HOOD	1	20	DUAL	A	AFCI	15	1	LIGHTING/RECEPTACLES	14
15	KITCHEN APPLIANCE RECEPT.	1	20	DUAL	B	AFCI	15	1	LIGHTING/RECEPTACLES	16
17	KITCHEN APPLIANCE RECEPT.	1	20	DUAL	A	AFCI	15	1	LIGHTING/RECEPTACLES	18
19	KITCHEN APPLIANCE RECEPT.	1	20	DUAL	B	GFCI	20	1	MICROWAVE OVEN	20
21	REFRIGERATOR	1	20	DUAL	A		20	1	SME	22
23	LAUNDRY CIRCUIT	1	20	DUAL	B	GFCI	40	2	OVEN	24
25	FIREPLACE	1	20	AFCI	A	GFCI	--	--	--	26
27	FIREPLACE FAN	1	20	AFCI	B				BUSSED SPACE	28
29	SPARE	1	20		A				BUSSED SPACE	30
BREAKER TYPES: AFCI: CIRCUIT BREAKER TO BE AFCI PROTECTED. GFCI: CIRCUIT BREAKER TO BE GFCI PROTECTED. DUAL: CIRCUIT BREAKER TO BE DUAL FUNCTION AFCI AND GFCI PROTECTED.										

LOAD CENTER '2BK'										
VOLTAGE L-L: VOLTAGE L-G: TYPE: MOUNTING: NOTES:		208 120 1PH/3W RECESSED 2 BEDRM KNUCKLE - 2BK		LOCATION: BUS RATING: MAIN CB: AIC RATING: FED FROM:		VARIES, SEE PLANS 150A M.L.O. VARIES, SEE ONE-LINE DIAGRAM VARIES, SEE ONE-LINE DIAGRAM				
CIR. NO	LOAD DESCRIPTION	CIRCUIT BREAKER			BUS	CIRCUIT BREAKER			LOAD DESCRIPTION	CIR NO
		POLE	TRIP	TYPE		TYPE	TRIP	POLE		
1	HEAT PUMP UNIT HP-X-XX	2	20		A	GFCI	40	2	RANGE	2
3	--	--	--		B	GFCI	--	--	--	4
5	ERV UNIT ERV-X-XX	2	15		A	GFCI	30	2	DRYER	6
7	-	-	-		B	GFCI	--	--	--	8
9	DISHWASHER	1	20	DUAL	A	DUAL	20	1	BATHROOM CIRCUIT	10
11	DISPOSAL	1	20	DUAL	B	AFCI	15	1	LIGHTING/RECEPTACLES	12
13	MICROWAVE/HOOD	1	20	DUAL	A	AFCI	15	1	LIGHTING/RECEPTACLES	14
15	KITCHEN APPLIANCE RECEPT.	1	20	DUAL	B	AFCI	15	1	LIGHTING/RECEPTACLES	16
17	KITCHEN APPLIANCE RECEPT.	1	20	DUAL	A	AFCI	15	1	LIGHTING/RECEPTACLES	18
19	KITCHEN APPLIANCE RECEPT.	1	20	DUAL	B		20	1	SME	20
21	REFRIGERATOR	1	20	DUAL	A	GFCI	40	2	OVEN	22
23	LAUNDRY CIRCUIT	1	20	DUAL	B	GFCI	--	--	--	24
25	FIREPLACE	1	20	AFCI	A	AFCI	20	1	SPARE	26
27	FIREPLACE FAN	1	20	AFCI	B				BUSSED SPACE	28
29	SPARE	1	20		A				BUSSED SPACE	30
BREAKER TYPES: AFCI: CIRCUIT BREAKER TO BE AFCI PROTECTED. GFCI: CIRCUIT BREAKER TO BE GFCI PROTECTED. DUAL: CIRCUIT BREAKER TO BE DUAL FUNCTION AFCI AND GFCI PROTECTED.										

LOAD CENTER '3BS & TYPE A'										
VOLTAGE L-L: VOLTAGE L-G: TYPE: MOUNTING: NOTES:		208 120 1PH/3W RECESSED 3 BEDRM STANDARD - 3BS		LOCATION: BUS RATING: MAIN CB: AIC RATING: FED FROM:		VARIES, SEE PLANS 200A M.L.O. VARIES, SEE ONE-LINE DIAGRAM VARIES, SEE ONE-LINE DIAGRAM				
CIR. NO	LOAD DESCRIPTION	CIRCUIT BREAKER			BUS	CIRCUIT BREAKER			LOAD DESCRIPTION	CIR NO
		POLE	TRIP	TYPE		TYPE	TRIP	POLE		NO
1	HEAT PUMP UNIT HP-X-XX	2	20		A	GFCI	40	2	RANGE	2
3	--	--	--		B	GFCI	--	--	--	4
5	HEAT PUMP UNIT HP-X-XX	2	20		A	GFCI	30	2	DRYER	6
7	--	--	--		B	GFCI	--	--	--	8
9	DISHWASHER	1	20	DUAL	A	DUAL	20	1	BATHROOM CIRCUIT	10
11	DISPOSAL	1	20	DUAL	B	AFCI	15	1	LIGHTING/RECEPTACLES	12
13	MICROWAVE/HOOD	1	20	DUAL	A	AFCI	15	1	LIGHTING/RECEPTACLES	14
15	KITCHEN APPLIANCE RECEPT.	1	20	DUAL	B	AFCI	15	1	LIGHTING/RECEPTACLES	16
17	KITCHEN APPLIANCE RECEPT.	1	20	DUAL	A	AFCI	15	1	LIGHTING/RECEPTACLES	18
19	KITCHEN APPLIANCE RECEPT.	1	20	DUAL	B		15	2	ERV UNIT ERV-X-XX	20
21	REFRIGERATOR	1	20	DUAL	A		--	--	--	22
23	LAUNDRY CIRCUIT	1	20	DUAL	B		20	1	SME	24
25	FIREPLACE	1	20	AFCI	A	GFCI	40	2	OVEN (G1)	26
27	FIREPLACE FAN	1	20	AFCI	B	GFCI	--	--	--	28
29	SPARE	1	20		A				BUSSED SPACE	30
31	SPARE	1	20		B				BUSSED SPACE	32
33	SPARE	1	20		A				BUSSED SPACE	34
35	SPARE	1	20		B				BUSSED SPACE	36
BREAKER TYPES: AFCI: CIRCUIT BREAKER TO BE AFCI PROTECTED. GFCI: CIRCUIT BREAKER TO BE GFCI PROTECTED. DUAL: CIRCUIT BREAKER TO BE DUAL FUNCTION AFCI AND GFCI PROTECTED.										
G1. BREAKER SHALL BE 40A/2P IN NON-TYPE A UNITED AND 30A/2P IN TYPE-A UNITS.										

LOAD CENTER '2BS & TYPE A'				
----------------------------	--	--	--	--



## LOAD CENTER '3BC'

VOLTAGE L-L: 208  
VOLTAGE L-G: 120  
TYPE: 1PH/3W  
MOUNTING: RECESSED  
NOTES: 3 BEDRM CORNER - 3BC

LOCATION: VARIES, SEE PLANS  
BUS RATING: 200A  
MAIN CB: M.L.O.  
AIC RATING: VARIES, SEE ONE-LINE DIAGRAM  
FED FROM: VARIES, SEE ONE-LINE DIAGRAM

CIR. NO	LOAD DESCRIPTION	CIRCUIT BREAKER			BUS	CIRCUIT BREAKER			LOAD DESCRIPTION	CIR NO
		POLE	TRIP	TYPE		TYPE	TRIP	POLE		
1	HEAT PUMP UNIT HP-X-XX	2	20		A	GFCI	40	2	RANGE	2
3	--	--	--		B	GFCI	--	--	--	4
5	ERV UNIT ERV-X-XX	2	15		A	GFCI	30	2	DRYER	6
7	--	--	--		B	GFCI	--	--	--	8
9	DISHWASHER	1	20	DUAL	A	DUAL	20	1	BATHROOM CIRCUIT	10
11	DISPOSAL	1	20	DUAL	B	AFCI	15	1	LIGHTING/RECEPTACLES	12
13	MICROWAVE/HOOD	1	20	DUAL	A	AFCI	15	1	LIGHTING/RECEPTACLES	14
15	KITCHEN APPLIANCE RECEPT.	1	20	DUAL	A	AFCI	15	1	LIGHTING/RECEPTACLES	16
17	KITCHEN APPLIANCE RECEPT.	1	20	DUAL	A	AFCI	15	1	LIGHTING/RECEPTACLES	18
19	KITCHEN APPLIANCE RECEPT.	1	20	DUAL	B	GFCI	20	1	WINE COOLER	20
21	REFRIGERATOR	1	20	DUAL	A		20	1	SME	22
23	LAUNDRY CIRCUIT	1	20	DUAL	B	GFCI	40	2	OVEN	24
25	FIREPLACE	1	20	AFCI	A	GFCI	--	--	--	26
27	FIREPLACE FAN	1	20	AFCI	B		20	2	HEAT PUMP HP-X-XX	28
29	SME	1	20		A		--	--	--	30
31	SPARE	1	20		B		15	2	ERV UNIT ERV-X-XX	32
33	SPARE	1	20		A		--	--	--	34
35	SPARE	1	20		B		20	1	SPARE	36

BREAKER TYPES:  
AFCI: CIRCUIT BREAKER TO BE AFCI PROTECTED.  
GFCI: CIRCUIT BREAKER TO BE GFCI PROTECTED.  
DUAL: CIRCUIT BREAKER TO BE DUAL FUNCTION AFCI AND GFCI PROTECTED.

## LOAD CENTER '3BC LOFT'

VOLTAGE L-L: 208  
VOLTAGE L-G: 120  
TYPE: 1PH/3W  
MOUNTING: RECESSED  
NOTES: 3 BEDRM CORNER - 3BC LOFT

LOCATION: VARIES, SEE PLANS  
BUS RATING: 200A  
MAIN CB: M.L.O.  
AIC RATING: VARIES, SEE ONE-LINE DIAGRAM  
FED FROM: VARIES, SEE ONE-LINE DIAGRAM

CIR. NO	LOAD DESCRIPTION	CIRCUIT BREAKER			BUS	CIRCUIT BREAKER			LOAD DESCRIPTION	CIR NO
		POLE	TRIP	TYPE		TYPE	TRIP	POLE		
1	HEAT PUMP UNIT HP-X-XX	2	20		A	GFCI	40	2	RANGE	2
3	--	--	--		B	GFCI	--	--	--	4
5	HEAT PUMP UNIT HP-X-XX	2	20		A	GFCI	30	2	DRYER	6
7	--	--	--		B	GFCI	--	--	--	8
9	DISHWASHER	1	20	DUAL	A	DUAL	20	1	BATHROOM CIRCUIT	10
11	DISPOSAL	1	20	DUAL	B	AFCI	15	1	LIGHTING/RECEPTACLES	12
13	MICROWAVE/HOOD	1	20	DUAL	A	AFCI	15	1	LIGHTING/RECEPTACLES	14
15	KITCHEN APPLIANCE RECEPT.	1	20	DUAL	A	AFCI	15	1	LIGHTING/RECEPTACLES	16
17	KITCHEN APPLIANCE RECEPT.	1	20	DUAL	A	AFCI	15	1	LIGHTING/RECEPTACLES	18
19	KITCHEN APPLIANCE RECEPT.	1	20	DUAL	B		20	1	SME	20
21	REFRIGERATOR	1	20	DUAL	A		20	1	SPARE	22
23	LAUNDRY CIRCUIT	1	20	DUAL	B	GFCI	60	2	HOT TUB	24
25	FIREPLACE	1	20	AFCI	A		--	--	--	26
27	FIREPLACE FAN	1	20	AFCI	B		20	2	HEAT PUMP UNIT HP-X-XX	28
29	SME	1	20		A		--	--	--	30
31	ERV UNIT ERV-X-XX	2	15		B		15	2	ERV UNIT ERV-X-XX	32
33	SPARE	1	20		A		--	--	--	34
35	SPARE	1	20		B		15	2	ERV UNIT ERV-X-XX	36
37	SPARE	1	20		A		--	--	--	38
39	SPARE	1	20		B	GFCI	40	2	OVEN	40
41	SPARE	1	20		A	GFCI	--	--	--	42

BREAKER TYPES:  
AFCI: CIRCUIT BREAKER TO BE AFCI PROTECTED.  
GFCI: CIRCUIT BREAKER TO BE GFCI PROTECTED.  
DUAL: CIRCUIT BREAKER TO BE DUAL FUNCTION AFCI AND GFCI PROTECTED.

## LOAD CENTER '4BE'

VOLTAGE L-L: 208  
VOLTAGE L-G: 120  
TYPE: 1PH/3W  
MOUNTING: RECESSED  
NOTES: 4 BEDRM EAST - 4BE

LOCATION: VARIES, SEE PLANS  
BUS RATING: 200A  
MAIN CB: M.L.O.  
AIC RATING: VARIES, SEE ONE-LINE DIAGRAM  
FED FROM: VARIES, SEE ONE-LINE DIAGRAM

CIR. NO	LOAD DESCRIPTION	CIRCUIT BREAKER			BUS	CIRCUIT BREAKER			LOAD DESCRIPTION	CIR NO
		POLE	TRIP	TYPE		TYPE	TRIP	POLE		
1	HEAT PUMP UNIT HP-X-XX	2	20		A	GFCI	40	2	RANGE	2
3	--	--	--		B	GFCI	--	--	--	4
5	HEAT PUMP UNIT HP-X-XX	2	20		A	GFCI	30	2	DRYER	6
7	--	--	--		B	GFCI	--	--	--	8
9	DISHWASHER	1	20	DUAL	A	DUAL	20	1	BATHROOM CIRCUIT	10
11	DISPOSAL	1	20	DUAL	B	AFCI	15	1	LIGHTING/RECEPTACLES	12
13	MICROWAVE/HOOD	1	20	DUAL	A	AFCI	15	1	LIGHTING/RECEPTACLES	14
15	KITCHEN APPLIANCE RECEPT.	1	20	DUAL	B	AFCI	15	1	LIGHTING/RECEPTACLES	16
17	KITCHEN APPLIANCE RECEPT.	1	20	DUAL	A	AFCI	15	1	LIGHTING/RECEPTACLES	18
19	KITCHEN APPLIANCE RECEPT.	1	20	DUAL	B		15	2	ERV UNIT ERV-X-XX	20
21	REFRIGERATOR	1	20	DUAL	A		--	--	--	22
23	LAUNDRY CIRCUIT	1	20	DUAL	B		15	2	ERV UNIT ERV-X-XX	24
25	FIREPLACE	1	20	AFCI	A		--	--	--	26
27	FIREPLACE FAN	1	20	AFCI	B	GFCI	20	1	WINE COOLER	28
29	SPARE	1	20		A		20	1	SME	30
31	SPARE	1	20		B	GFCI	40	2	OVEN	32
33	SPARE	1	20		B	GFCI	--	--	--	34
35	SPARE	1	20		B	AFCI	20	1	SPARE	36
37	SPARE	1	20		B	AFCI	20	1	SPARE	38
39	SPARE	1	20		B		--	--	--	40
41	SPARE	1	20		A		--	--	--	42

BREAKER TYPES:  
AFCI: CIRCUIT BREAKER TO BE AFCI PROTECTED.  
GFCI: CIRCUIT BREAKER TO BE GFCI PROTECTED.  
DUAL: CIRCUIT BREAKER TO BE DUAL FUNCTION AFCI AND GFCI PROTECTED.

## LOAD CENTER '4BE LOFT'

VOLTAGE L-L: 208  
VOLTAGE L-G: 120  
TYPE: 1PH/3W  
MOUNTING: RECESSED  
NOTES: 4 BEDRM EAST LOFT - 4BE

LOCATION: VARIES, SEE PLANS  
BUS RATING: 225A  
MAIN CB: M.L.O.  
AIC RATING: VARIES, SEE ONE-LINE DIAGRAM  
FED FROM: VARIES, SEE ONE-LINE DIAGRAM

CIR. NO	LOAD DESCRIPTION	CIRCUIT BREAKER			BUS	CIRCUIT BREAKER			LOAD DESCRIPTION	CIR NO
		POLE	TRIP	TYPE		TYPE	TRIP	POLE		
1	HEAT PUMP UNIT HP-X-XX	2	20		A	GFCI	50	2	RANGE	2
3	--	--	--		B	GFCI	--	--	--	4
5	HEAT PUMP UNIT HP-X-XX	2	20		A	GFCI	30	2	DRYER	6
7	--	--	--		B	GFCI	--	--	--	8
9	DISHWASHER	1	20	DUAL	A	DUAL	20	1	BATHROOM CIRCUIT	10
11	DISPOSAL	1	20	DUAL	B	AFCI	15	1	LIGHTING/RECEPTACLES	12
13	MICROWAVE/HOOD	1	20	DUAL	A	AFCI	15	1	LIGHTING/RECEPTACLES	14
15	KITCHEN APPLIANCE RECEPT.	1	20	DUAL	A	AFCI	15	1	LIGHTING/RECEPTACLES	16
17	KITCHEN APPLIANCE RECEPT.	1	20	DUAL	A	AFCI	15	1	LIGHTING/RECEPTACLES	18
19	KITCHEN APPLIANCE RECEPT.	1	20	DUAL	B	GFCI	60	2	HOT TUB	20
21	REFRIGERATOR	1	20	DUAL	A		--	--	--	22
23	LAUNDRY CIRCUIT	1	20	DUAL	B		20	2	HEAT PUMP UNIT HP-X-XX	24
25	FIREPLACE	1	20	AFCI	A		--	--	--	26
27	FIREPLACE FAN	1	20	AFCI	B		15	2	ERV UNIT ERV-X-XX	28
29	SME	1	20		A		--	--	--	30
31	ERV UNIT ERV-X-XX	2	15		B		15	2	ERV UNIT ERV-X-XX	32
33	--	--	--		A		--	--	--	34
35	SPARE	1	20		B	GFCI	20	1	WINE COOLER	36
37	SPARE	1	20		A	GFCI	40	2	OVEN	38
39	SPARE	1	20		B	GFCI	--	--	--	40
41	SPARE	1	20		A		--	--	--	42

BREAKER TYPES:  
AFCI: CIRCUIT BREAKER TO BE AFCI PROTECTED.  
GFCI: CIRCUIT BREAKER TO BE GFCI PROTECTED.  
DUAL: CIRCUIT BREAKER TO BE DUAL FUNCTION AFCI AND GFCI PROTECTED.

## LOAD CENTER '4BN'

VOLTAGE L-L: 208  
VOLTAGE L-G: 120  
TYPE: 1PH/3W  
MOUNTING: RECESSED  
NOTES: 4 BEDRM NORTH - 4BN LOFT

LOCATION: VARIES, SEE PLANS  
BUS RATING: 200A  
MAIN CB: M.L.O.  
AIC RATING: VARIES, SEE ONE-LINE DIAGRAM  
FED FROM: VARIES, SEE ONE-LINE DIAGRAM

CIR. NO	LOAD DESCRIPTION	CIRCUIT BREAKER			BUS	CIRCUIT BREAKER			LOAD DESCRIPTION	CIR NO
		POLE	TRIP	TYPE		TYPE	TRIP	POLE		
1	HEAT PUMP UNIT HP-X-XX	2	20		A	GFCI	40	2	RANGE	2
3	--	--	--		B	GFCI	--	--	--	4
5	HEAT PUMP UNIT HP-X-XX	2	20		A	GFCI	30	2	DRYER	6
7	--	--	--		B	GFCI	--	--	--	8
9	DISHWASHER	1	20	DUAL	A	DUAL	20	1	BATHROOM CIRCUIT	10
11	DISPOSAL	1	20	DUAL	B	AFCI	15	1	LIGHTING/RECEPTACLES	12
13	MICROWAVE/HOOD	1	20	DUAL	A	AFCI	15	1	LIGHTING/RECEPTACLES	14
15	KITCHEN APPLIANCE RECEPT.	1	20	DUAL	A	AFCI	15	1	LIGHTING/RECEPTACLES	16
17	KITCHEN APPLIANCE RECEPT.	1	20	DUAL	A	AFCI	15	1	LIGHTING/RECEPTACLES	18
19	KITCHEN APPLIANCE RECEPT.	1	20	DUAL	B		15	2	ERV UNIT ERV-X-XX	20
21	REFRIGERATOR	1	20	DUAL	A		--	--	--	22
23	LAUNDRY CIRCUIT	1	20	DUAL	B		15	2	ERV UNIT ERV-X-XX	24
25	FIREPLACE	1	20	AFCI	A		--	--	--	26
27	FIREPLACE FAN	1	20	AFCI	B	GFCI	20	1	WINE COOLER	28
29	SME	1	20		A	GFCI	40	2	OVEN	30
31	SPARE	1	20		B	GFCI	--	--	--	32
33	SPARE	1	20		A	AFCI	20	1	SPARE	34
35	SPARE	1	20		B	GFCI	20	1	SPARE	36
37	SPARE	1	20		A		20	1	SPARE	38
39	SPARE	1	20		B		--	--	--	40
41	SPARE	1	20		A		--	--	--	42

BREAKER TYPES:  
AFCI: CIRCUIT BREAKER TO BE AFCI PROTECTED.  
GFCI: CIRCUIT BREAKER TO BE GFCI PROTECTED.  
DUAL: CIRCUIT BREAKER TO BE DUAL FUNCTION AFCI AND GFCI PROTECTED.

## LOAD CENTER '4BN LOFT'

VOLTAGE L-L: 208  
VOLTAGE L-G: 120  
TYPE: 1PH/3W  
MOUNTING: RECESSED  
NOTES: 4 BEDRM NORTH - 4BN LOFT

LOCATION: VARIES, SEE PLANS  
BUS RATING: 225A  
MAIN CB: M.L.O.  
AIC RATING: VARIES, SEE ONE-LINE DIAGRAM  
FED FROM: VARIES, SEE ONE-LINE DIAGRAM

CIR. NO	LOAD DESCRIPTION	CIRCUIT BREAKER			BUS	CIRCUIT BREAKER			LOAD DESCRIPTION	CIR NO
		POLE	TRIP	TYPE		TYPE	TRIP	POLE		
1	HEAT PUMP UNIT HP-X-XX	2	20		A	GFCI	40	2	RANGE	2
3	--	--	--		B	GFCI	--	--	--	4
5	HEAT PUMP UNIT HP-X-XX	2	20		A	GFCI	30	2	DRYER	6
7	--	--	--		B	GFCI	--	--	--	8
9	DISHWASHER	1	20	DUAL	A	DUAL	20	1	BATHROOM CIRCUIT	10
11	DISPOSAL	1	20	DUAL	B	AFCI	15	1	LIGHTING/RECEPTACLES	12
13	MICROWAVE/HOOD	1	20	DUAL	A	AFCI	15	1	LIGHTING/RECEPTACLES	14
15	KITCHEN APPLIANCE RECEPT.	1	20	DUAL	B	AFCI	15	1	LIGHTING/RECEPTACLES	16
17	KITCHEN APPLIANCE RECEPT.	1	20	DUAL	A	AFCI	15	1	LIGHTING/RECEPTACLES	18
19	KITCHEN APPLIANCE RECEPT.	1	20	DUAL	B	GFCI	60	2	HOT TUB	20
21	REFRIGERATOR	1	20	DUAL	A		--	--	--	22
23	LAUNDRY CIRCUIT	1	20	DUAL	B		20	2	HEAT PUMP UNIT HP-X-XX	24
25	FIREPLACE	1	20	AFCI	A		--	--	--	26
27	FIREPLACE FAN	1	20	AFCI	B		15	2	ERV UNIT ERV-X-XX	28
29	SME	1	20		A		--	--	--	30
31	ERV UNIT ERV-X-XX	2	15		B		15	2	ERV UNIT ERV-X-XX	32
33	--	--	--		A		--	--	--	34
35	SPARE	1	20		B	GFCI	20	1	WINE COOLER	36
37	SPARE	1	20		A	GFCI	40	2	OVEN	38
39	SPARE	1	20		B	GFCI	--	--	--	40
41	SPARE	1	20		A		--	--	--	42

BREAKER TYPES:  
AFCI: CIRCUIT BREAKER TO BE AFCI PROTECTED.  
GFCI: CIRCUIT BREAKER TO BE GFCI PROTECTED.  
DUAL: CIRCUIT BREAKER TO BE DUAL FUNCTION AFCI AND GFCI PROTECTED.

## LOAD CENTER '3BK'

VOLTAGE L-L: 208  
VOLTAGE L-G: 120  
TYPE: 1PH/3W  
MOUNTING: RECESSED  
NOTES: 3 BEDRM CORNER KNUCKLE 3BC K

LOCATION: VARIES, SEE PLANS  
BUS RATING: 150A  
MAIN



POOL EQUIPMENT NOTES											
A	PROVIDE 120V CONTROL WIRING AS REQUIRED PER POOL EQUIPMENT SCHEDULE ON POOL DRAWINGS.										
B	REFER TO POOL DRAWINGS FOR EQUIPMENT LOCATIONS.										
C	FIELD VERIFY ALL EQUIPMENT LOADS, VOLTAGES, AND RECOMMENDED FUSE SIZING PRIOR TO ENERGIZING CIRCUIT.										
D	THE ELECTRICAL CONTRACTOR SHALL REVIEW ALL AQUATICS PLANS AND PROVIDE ALL WORK AS CALLED OUT TO BE COMPLETED BY THE ELECTRICAL CONTRACTOR. COORDINATE WITH POOL CONTRACTOR.										
E	ALL DISCONNECTS SHALL BE NEMA 3R RATED WITH NON-METALLIC ENCLOSURE AND STAINLESS STEEL HARDWARE FOR CORROSION RESISTANCE.										
F	MOTORS REQUIRING STARTERS SHALL UTILIZE COMBINATION STARTER/DISCONNECT. STARTERS SHALL BE NON-REVERSING WITH NEMA SIZE AS LISTED. ALL STARTERS SHALL UTILIZE CIRCUIT BREAKERS FOR OVERCURRENT PROTECTION. ELECTRICAL CONTRACTOR TO VERIFY ALL PUMPS AND MOTORS REQUIRING STARTERS TO BE PROVIDED BY EC PRIOR TO COMMENCING WORK AND ORDERING MOTOR STARTERS.										
G	PROVIDE FLEXIBLE CONDUIT CONNECTION AT ALL PUMP MOTORS, MINIMUM 18" IN LENGTH.										
H	WHERE MOTOR IS WITHIN SIGHT (PER THE DEFINITION OF THE NEC) OF THE MCC, THE INDICATED DISCONNECT SWITCH IS NOT REQUIRED.										
I	ALL MOTORS GREATER THAN 7.5 HORSEPOWER ARE TO BE PROVIDED WITH THREE PHASE PROTECTION.										
J	ELECTRICAL CONTRACTOR SHALL REFERENCE POOL WIRING DIAGRAMS AND SEQUENCE OF OPERATIONS FOR INTERLOCKS PROVIDED ON THE AQUATIC DESIGNERS DRAWINGS.										
K	ALL POOL, SPA AND/OR HOT-TUB ELECTRICAL RECEPTACLES, DEVICES, LIGHTING, UNDERWATER LUMINAIRES, PUMPS/MOTORS, AND EQUIPMENT SHALL BE PROVIDED WITH GFCI PROTECTION AND SPGFCI PROTECTION IN ACCORDANCE WITH NEC ARTICLE 680 REQUIREMENTS, INCLUDING BUT NOT LIMITED TO SECTIONS: 680.5, 680.12, 680.21 (C), 680.22(A)(4), 680.22 (A)(4), 680.22(B)(4), AND 680.23(A)(3), WHERE NOT PROVIDED BY THE POOL CONTRACTOR, THE ELECTRICAL CONTRACTOR SHALL PROVIDE VARIABLE FREQUENCY DRIVE AS INDICATED IN THE POOL EQUIPMENT SCHEDULE PER THE FOLLOWING SPECIFICATIONS. a. MANUFACTURER SHALL BE: ABB, ALLEN BRADLEY, OR APPROVED EQUAL. b. VFD UNIT ENCLOSURE SHALL BE NEMA-12 RATED. c. UNIT SHALL BE PROVIDED WITH MANUAL SPEED ADJUSTMENT VIA KEYPAD OR DIAL MOUNTED ON THE ENCLOSURES EXTERIOR. d. UNIT SHALL BE PROVIDED WITH REQUIRED NUMBER OF OUTPUTS FOR CONNECTION TO EXTERNAL RELAY(S) AND EQUIPMENT. e. UNIT SHALL BE PROVIDED WITH MANUFACTURER'S PERFORMED FIELD TEST OF DRIVE. f. UNIT SHALL BE PROVIDED WITH OWNER OPERATIONAL AND MAINTENANCE TRAINING OF DEVICE. g. UNIT SHALL BE SUITABLE FOR OPERATING ENVIRONMENT FROM 0 DEGREES TO 40 DEGREES CELCIUS, AND HUMIDITY UP TO 90% NON-CONDENSING. h. PROVIDE VFD WITH CAPABILITY OF 30 SECOND RAMP UP TO FULL SPEED AND 5 SECOND RAMP DOWN FROM FULL SPEED TO ZERO FOR ALL APPLICATIONS USING FILTRATION SYSTEM WITH REGENERATIVE MEDIA FILTER. COORDINATE LOCATIONS WITH POOL CONTRACTOR. i. PROVIDE VFD WITH REQUIRED NUMBER OF OUTPUTS FOR CONNECTION TO ALL EXTERNAL RELAY(S) AND EQUIPMENT AS REQUIRED BY THE POOL CONTRACTOR'S DRAWINGS.										
L	PROVIDE CLEARLY LABELED EMERGENCY SHUTOFF BUTTONS FOR THE PURPOSE OF STOPPING THE MOTORS THAT PROVIDE POWER TO ALL NON-FILTRATION PUMPS PER POOL ENGINEER. EMERGENCY SHUTOFF BUTTON LOCATIONS SHALL BE COORDINATED WITH THE OWNER OR THE OWNER'S RISK MANAGEMENT CONSULTANT.										
M	PROVIDE CLEARLY LABELED EMERGENCY POWER OFF (EPO) SWITCH(ES) FOR EMERGENCY SHUTDOWN OF ALL POOL WATER HEATER/BOILER SYSTEMS AS REQUIRED BY CODE. EPO SWITCH LOCATIONS SHALL BE AT EACH EGRESS DOOR LEADING FROM THE ROOM HOUSING THE POOL WATER HEATER SYSTEM(S) AND SHALL BE COORDINATED WITH THE POOL ENGINEER AND OWNER'S RISK MANAGEMENT CONSULTANT.										

POOL SPECIFIC NOTES											
1.	WHERE VFD IS PROVIDED FOR ALL 120V/1-PH, 208V/1-PH, OR 208V/3-PH POOL OR SPA MOTORS OR PUMPS, CONTRACTOR SHALL PROVIDE AND INSTALL CLASS A GFCI DEVICE ON LOAD SIDE OF VFD AND AHEAD OF MOTOR CONNECTION PER NEC 680.5. GFCI DEVICE SHALL BE CLASS A WITH SMA TRIP SETTING AND HAVE CURRENT RATING TO MEET OR EXCEED NAMEPLATE AMPERAGE RATING OF ASSOCIATED PUMP. BASIS OF DESIGN IS LITTELFUSE SB5000 SERIES, OR APPROVED EQUIVALENT. FIELD COORDINATE INSTALLATION LOCATION AND MOUNTING WITH POOL CONTRACTOR PRIOR TO ROUGH-IN.										
2.	POWER FOR FEED PUMPS IS PROVIDED VIA CHEMICAL CONTROLLER. EC SHALL COORDINATE INTERCONNECTION REQUIREMENTS WITH POOL CONTRACTOR AND APPROVED POOL EQUIPMENT SHOP DRAWINGS AND WIRING DIAGRAMS. REFER TO POOL CONSULTANT/AQUATICS (SP-SERIES) DRAWINGS FOR ADDITIONAL INFORMATION.										
3.	LOW VOLTAGE CONTROL WIRING CONNECTIONS ARE REQUIRED BETWEEN THE PUMP VFDS, FILTRATION SYSTEM, WATER CHEMISTRY CONTROLLER, UV TREATMENT SYSTEM, CHLORINE SYSTEM, ACID FEED SYSTEM, FLOW METER, HEATING SYSTEM, AND/OR ACTIVITY FEATURE SYSTEM FOR CONTROLS AND AUTOMATION OF POOL EQUIPMENT. CONDUIT SHALL BE PROVIDED BY EC. ALL LOW VOLTAGE CONTROL WIRING SHALL BE PROVIDED BY POOL CONTRACTOR. EC SHALL COORDINATE INTERCONNECTION REQUIREMENTS WITH POOL CONTRACTOR AND APPROVED POOL EQUIPMENT SHOP DRAWINGS AND WIRING DIAGRAMS. REFER TO POOL CONSULTANT/AQUATICS (SP-SERIES) DRAWINGS FOR ADDITIONAL INFORMATION.										

POOL EQUIPMENT SCHEDULE												
KEY		EQUIPMENT DESCRIPTION	LOAD (HP/kw /FLA)	ELECTRICAL	MOC/P	FEEDER	DISCONNECT	STARTER		PANEL	CIRCUIT	NOTES
								NEMA SIZE	AUX CONTACT			
P	1	POOL CIRCULATION PUMP	3 HP	208 V/1-3596 VA	35A MOC/P	2#8, 1#10G, 1" C	30A/2P	NEMA 0	3 NO/NC	LMA 12,14	1, 3	
P	2	POOL WATERFALL PUMP	3 HP	208 V/1-3596 VA	35A MOC/P	2#8, 1#10G, 1" C	30A/2P	NEMA 0	3 NO/NC	LMA 27,29	1, 3	
SP	3	SPA JET PUMP	5 HP	208 V/1-5824 VA	60A MOC/P	2#4, 1#10G, 1" C	60A/2P	NEMA 1	3 NO/NC	LMA 7,9	1, 3	
SP	4	SPA CIRCULATION PUMP	5 HP	208 V/1-5824 VA	60A MOC/P	2#4, 1#10G, 1" C	60A/2P	NEMA 1	3 NO/NC	LMA 16,18	1, 3	
SS24	7A	SPA SANITIZER - CHLORINE FEEDER	4 FLA	120 V/1-500 VA	20A MOC/P	2#12, 1#12G, 3/4" C	5-20R			LMA 28	2, 3	
PS4	7B	POOL SANITIZER - CHLORINE FEEDER	4 FLA	120 V/1-500 VA	20A MOC/P	2#12, 1#12G, 3/4" C	5-20R			LMA 28	2, 3	
SA25	8A	SPA PH BALANCER - ACID FEEDER	--	120 V/1-500 VA	20A MOC/P	2#12, 1#12G, 3/4" C	5-20R			LMA 30	2, 3	
PA5	8B	POOL PH BALANCER - ACID FEEDER	--	120 V/1-500 VA	20A MOC/P	2#12, 1#12G, 3/4" C	5-20R			LMA 30	2, 3	
CC6	9A	CHEMICAL CONTROLLER	4 FLA	120 V/1-500 VA	20A MOC/P	2#12, 1#12G, 3/4" C	5-20R			LMA 24	2, 3	
CC26	9B	CHEMICAL CONTROLLER	4 FLA	120 V/1-500 VA	20A MOC/P	2#12, 1#12G, 3/4" C	5-20R			LMA 24	2, 3	
AF32	10	AUTO-FILL CONTROLLER SPA	4 FLA	120 V/1-500 VA	20A MOC/P	2#12, 1#12G, 3/4" C	30A/1P			LMA 26	3	
AF13	11	AUTO-FILL CONTROLLER POOL	4 FLA	120 V/1-500 VA	20A MOC/P	2#12, 1#12G, 3/4" C	30A/1P			LMA 26	3	
SB	12	SPA JET BLOWER	2 HP	120 V/1-2004 VA	25A MOC/P	2#10, 1#10G, 3/4" C	30A/1P	NEMA 0		LMA 32	1	

MECHANICAL EQUIPMENT GENERAL NOTES	
A.	REFER TO MECHANICAL PLANS FOR SPECIFIC EQUIPMENT LOCATIONS AND REQUIREMENTS.
B.	PRIOR TO ROUGH-IN, COORDINATE ALL MECHANICAL EQUIPMENT POWER AND CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR'S FINAL SHOP DRAWINGS.
C.	PROVIDE ALL 120V CONTROL WIRING, REFER TO SPECIFICATIONS FOR FURTHER CONTROL WIRING CLARIFICATION.
D.	FOR ANY VAV SYSTEM COORDINATE POWER REQUIREMENTS WITH MECHANICAL CONTRACTOR AND PROVIDE 120V CONNECTIONS AT EACH VAV BOX, OR AT CENTRAL CONTROL PANEL LOCATION(S) AS REQUIRED. IF EXACT QUANTITIES AND LOCATIONS FOR CONTROL PANELS ARE NOT KNOWN AT BID TIME, E.C. IS TO INCLUDE ONE 120V CONNECTION AT EACH VAV DEVICE IN THE BASE BID PRICE AND PROVIDE A CREDIT DURING CONSTRUCTION IF LESS CONNECTIONS ARE REQUIRED.
E.	EXTERIOR DISCONNECT SWITCHES ARE TO BE PROVIDED AS NEMA 3R EQUIPMENT UNLESS OTHERWISE NOTED.
F.	PROVIDE WEATHERPROOF 120 VOLT GFCI RECEPTACLES WITHIN 25' OF ALL ROOFTOP HEATING, VENTILATING, AND AIR CONDITIONING EQUIPMENT. CIRCUIT TO SPARE CIRCUIT ON NEAREST 120V PANELBOARD OR AS INDICATED ON PLANS.
G.	PROVIDE DUCT DETECTION ON ALL RETURN AIR SYSTEMS OF 2,000 CFM OR GREATER, AND FOR ALL SUPPLY AIR SYSTEMS 15,000 CFM OR GREATER, INCLUDING THOSE SYSTEMS SERVING MULTIPLE FLOORS. PROVIDE ADDITIONAL DUCT DETECTORS AND INSTALL REMOTE INDICATOR LIGHTS AS REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION.
H.	FOR ANY BOILER MECHANICAL SYSTEM, E.C. IS TO PROVIDE AN EMERGENCY PUSHBUTTON OFF AND ANY CONTROL WIRING REQUIRED. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR AND EQUIPMENT PRIOR TO INSTALLATION.
I.	EC TO PROVIDE HAND/OFF/AUTO STARTERS FOR ALL MOTORS WHEN NOT INDICATED AS TO BE PROVIDED BY THE MECHANICAL CONTRACTOR ON THE MECHANICAL PLANS. SIZE OF STARTER TO BE BASED UPON SIZE OF MOTOR HORSEPOWER INDICATED.
MECHANICAL EQUIPMENT SPECIFIC NOTES	
1.	EC SHALL INTERLOCK FANS. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.
2.	EC SHALL INTERLOCK FAN WITH CORRESPONDING HEAT PUMP. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.
3.	EC SHALL VERIFY EQUIPMENT VOLTAGE, PHASE AND ELECTRICAL CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

MECHANICAL EQUIPMENT SCHEDULE											
KEY	EQUIPMENT DESCRIPTION	LOAD	ELECTRICAL	MOC/P/MFS	FEEDER	DISCONNECT	PANEL	CIRCUIT	NOTES		
AWHP 1	HEAT PUMP WATER HEATER	74 MCA	480 V/3-61518 VA	100A MOC/P	3#1, 1#8G, 1-1/2" C	100A/3P	HMS	1,3,5			
AWHP 2	HEAT PUMP WATER HEATER	74 MCA	480 V/3-61518 VA	100A MOC/P	3#1, 1#8G, 1-1/2" C	100A/3P	HMS	2,4,6			
AWHP 3	HEAT PUMP WATER HEATER	74 MCA	480 V/3-61518 VA	100A MOC/P	3#1, 1#8G, 1-1/2" C	100A/3P	HMS	7,9,11			
B 1	ELECTRIC BOILER	432 KW	480 V/3-432000 VA	SEE ONE-LINE	2[3#500, 1#1/0G, 3" C]	800A/3P	HMSB	5			
B 2	ELECTRIC BOILER	432 KW	480 V/3-432000 VA	SEE ONE-LINE	2[3#500, 1#1/0G, 3" C]	800A/3P	HMSB	6			
BBH 1-02	ELECTRIC BASEBOARD HEATER	2.4 FLA	120 V/1-288 VA	15A MOC/P	2#12, 1#12G, 3/4" C	INTEGRAL	LP1	2			
BBH 3-12	ELECTRIC BASEBOARD HEATER	4.9 FLA	120 V/1-590 VA	15A MOC/P	2#12, 1#12G, 3/4" C	INTEGRAL	LP4	5			
BBH 3-13	ELECTRIC BASEBOARD HEATER	4.9 FLA	120 V/1-590 VA	15A MOC/P	2#12, 1#12G, 3/4" C	INTEGRAL	LP4	7			
BBH B-01	ELECTRIC BASEBOARD HEATER	4.9 FLA	120 V/1-590 VA	15A MOC/P	2#12, 1#12G, 3/4" C	INTEGRAL	LMA	2			
BBH B-02	ELECTRIC BASEBOARD HEATER	4.9 FLA	120 V/1-590 VA	15A MOC/P	2#12, 1#12G, 3/4" C	INTEGRAL	LMA	4			
BBH B-03	ELECTRIC BASEBOARD HEATER	4.9 FLA	120 V/1-590 VA	15A MOC/P	2#12, 1#12G, 3/4" C	INTEGRAL	LMA	4			
BBH B-04	ELECTRIC BASEBOARD HEATER	4.9 FLA	120 V/1-590 VA	15A MOC/P	2#12, 1#12G, 3/4" C	INTEGRAL	LMA	2			
BBH B-05	ELECTRIC BASEBOARD HEATER	4.9 FLA	120 V/1-590 VA	15A MOC/P	2#12, 1#12G, 3/4" C	INTEGRAL	LPG	43			
BBH B-07	ELECTRIC BASEBOARD HEATER	4.9 FLA	120 V/1-590 VA	15A MOC/P	2#12, 1#12G, 3/4" C	INTEGRAL	LPG	39			
BBH B-08	ELECTRIC BASEBOARD HEATER	2.4 FLA	120 V/1-290 VA	15A MOC/P	2#12, 1#12G, 3/4" C	INTEGRAL	LPG	1			
BBH B-09	ELECTRIC BASEBOARD HEATER	4.9 FLA	120 V/1-590 VA	15A MOC/P	2#12, 1#12G, 3/4" C	INTEGRAL	LPG	31			
BBH B-10	ELECTRIC BASEBOARD HEATER	4.9 FLA	120 V/1-590 VA	15A MOC/P	2#12, 1#12G, 3/4" C	INTEGRAL	LPG	31			
BBH B-11	ELECTRIC BASEBOARD HEATER	4.9 FLA	120 V/1-590 VA	15A MOC/P	2#12, 1#12G, 3/4" C	INTEGRAL	LPG	43			
BP 01	FIRE WATER BOOSTER PUMP	SEE ONE-LINE	480 V/3-79716 VA	N/A	SEE ONE-LINE	SEE ONE-LINE					
BP 02	FIRE WATER JOCKEY PUMP	3 HP	480 V/3-3987 VA	15A MOC/P	2#12, 1#12G, 3/4" C	30A/3P	HSG	13,15,17			
CUH 1-01	CABINET UNIT HEATER	6 KW	208 V/1-6000 VA	40A MOC/P	2#8, 1#8G, 1" C	60A/2P	LP1	35,37			
CUH 1-02	CABINET UNIT HEATER	6 KW	208 V/1-6000 VA	40A MOC/P	2#8, 1#8G, 1" C	60A/2P	LP1	44,46			
CUH 1-03	CABINET UNIT HEATER	6 KW	208 V/1-6000 VA	40A MOC/P	2#8, 1#8G, 1" C	60A/2P	LP1	45,47			
CUH 1-04	CABINET UNIT HEATER	6 KW	208 V/1-6000 VA	40A MOC/P	2#8, 1#8G, 1" C	60A/2P	LP1	48,50			
CUH B-01	CABINET UNIT HEATER	6 KW	208 V/1-6000 VA	40A MOC/P	2#8, 1#8G, 1" C	60A/2P	LPG	28,30			
DH 1	DUCT HEATER	93.7 KW	480 V/3-93699 VA	SEE ONE-LINE	3#3/0, 1#4G, 2" C	200A/3P	HMSB	10			
DH 2	DUCT HEATER	93.7 KW	480 V/3-93699 VA	SEE ONE-LINE	3#3/0, 1#4G, 2" C	200A/3P	HMSB	11			
DH 3	DUCT HEATER	12.6 KW	480 V/3-12600 VA	20A MOC/P	2#12, 1#12G, 3/4" C	30A/3P	HMA	13,15,17			
DH B-01	DUCT HEATER	3 KW	208 V/1-3000 VA	20A MOC/P	2#12, 1#12G, 3/4" C	30A/2P	LPG	20,22			
EF 1-01	EXHAUST FAN	80 W	120 V/1-80 VA	15A MOC/P	2#12, 1#12G, 3/4" C	30A/1P	LP1	3			
EF R-01	EXHAUST FAN	10 HP	480 V/3-11634 VA	35A MOC/P	3#8, 1#10G, 1" C	60A/3P	HMS	13,15,17	2		
EF R-02	EXHAUST FAN	10 HP	480 V/3-11634 VA	35A MOC/P	3#8, 1#10G, 1" C	60A/3P	HMS	19,21,23	2		
EF R-03	EXHAUST FAN	10 HP	480 V/3-11634 VA	35A MOC/P	3#8, 1#10G, 1" C	60A/3P	HMS	8,10,12	2		
ELEV 1B	ELEVATOR B (EAST)	10 HP	480 V/3-11634 VA	25A MOC/P	3#10, 1#10G, 3/4" C	30A/3P	HWL	3,4,6,8			
ELEV 2A	ELEVATOR A (WEST)	27.15 HP	480 V/3-17451 VA	40A MOC/P	3#8, 1#10G, 1" C	60A/3P	HSG	7,9,11			
ERV S-01	ENERGY RECOVERY VENTILATOR	27.1 MCA	208 V/1-5638 VA	35A MOC/P	2#8, 1#10G, 1" C	60A/2P	LP5	67,69			
ERV B-01	ENERGY RECOVERY VENTILATOR	11.55 MCA	208 V/1-2402 VA	15A MOC/P	2#12, 1#12G, 3/4" C	30A/2P	LPG	24,26			
GF 1	GLYCOL FEED SYSTEM	1/3 HP	120 V/1-864 VA	15A MOC/P	2#12, 1#12G, 3/4" C	30A/1P	LMA	34			
GF 2	GLYCOL FEED SYSTEM	1/3 HP	120 V/1-864 VA	15A MOC/P	2#12, 1#12G, 3/4" C	30A/1P	LMA	36			
GF B-01	GARAGE EXHAUST FAN	3/4 HP	208 V/3-1332 VA	15A MOC/P	2#12, 1#12G, 3/4" C	30A/3P	LSG	17,19,21			
GF B-02A	GARAGE EXHAUST FAN	1 HP	480 V/3-1728 VA	15A MOC/P	2#12, 1#12G, 3/4" C	30A/3P	HSG	1,3,5	1		
GF B-02B	GARAGE EXHAUST FAN	1 HP	480 V/3-1728 VA	15A MOC/P	2#12, 1#12G, 3/4" C	30A/3P	HSG	1,3,5	1		
GF B-03	GARAGE EXHAUST FAN	1/3 HP	208 V/3-900 VA	15A MOC/P	2#12, 1#12G, 3/4" C	30A/3P	LSG	16,18,20			
GF B-04A	GARAGE EXHAUST FAN	1 HP	480 V/3-1728 VA	15A MOC/P	2#12, 1#12G, 3/4" C	30A/3P	HSG	2,4,6	1		
GF B-04B	GARAGE EXHAUST FAN	1 HP	480 V/3-1728 VA	15A MOC/P	2#12, 1#12G, 3/4" C	30A/3P	HSG	2,4,6	1		
HP 1-01	WATER TO AIR HEAT PUMP	10.9 MCA	208 V/1-2266 VA	20A MOC/P	2#12, 1#12G, 3/4" C	30A/2P	LP1	29,21			
HP 1-11	WATER TO AIR HEAT PUMP	11.4 MCA	208 V/1-2370 VA	20A MOC/P	2#12, 1#12G, 3/4" C	30A/2P	LP1	22,24			
HP 1-12	WATER TO AIR HEAT PUMP	21.9 MCA	208 V/3-7884 VA	30A MOC/P	3#10, 1#10G, 3/4" C	30A/3P	LP1	49,51,53			
HP 2-01	WATER TO AIR HEAT PUMP	10.9 MCA	208 V/1-2266 VA	20A MOC/P	2#12, 1#12G, 3/4" C	30A/2P	LP2	1,3			
HP 3-01	WATER TO AIR HEAT PUMP	10.9 MCA	208 V/1-2266 VA	20A MOC/P	2#12, 1#12G, 3/4" C	30A/2P	LP4	9,11			
HP 4-01	WATER TO AIR HEAT PUMP	10.9 MCA	208 V/1-2266 VA	20A MOC/P	2#12, 1#12G, 3/4" C	30A/2P	LP1	1,3			
HP 5-01	WATER TO AIR HEAT PUMP	11.4 MCA	208 V/1-2370 VA	20A MOC/P	2#12, 1#12G, 3/4" C	30A/2P	LP5	20,22			
HP 5-02	WATER TO AIR HEAT PUMP	11.4 MCA	208 V/1-2370 VA	20A MOC/P	2#12, 1#12G, 3/4" C	30A/2P	LP5	75,77			
HP B-01	WATER TO AIR HEAT PUMP	10.9 MCA	208 V/1-2266 VA	20A MOC/P	2#12, 1#12G, 3/4" C	30A/2P	LMA	1,3			
HP B-02	WATER TO AIR HEAT PUMP	21.9 MCA	208 V/3-7884 VA	30A MOC/P	3#10, 1#10G, 3/4" C	30A/3P	LPG	50,52,54			
HWRP 1	DOMESTIC HOT WATER RECIRCULATION PUMP	2 HP	120 V/1-2880 VA	50A MOC/P	2#6, 1#10G, 1" C	60A/1P	LMA	25			
P 1	BUILDING HEATING WATER PUMP	10 HP	480 V/3-11634 VA	25A MOC/P	3#10, 1#10G, 3/4" C	30A/3P	HMA	1,3,5			
P 2	BUILDING HEATING WATER PUMP	10 HP	480 V/3-11634 VA	25A MOC/P	3#10, 1#10G, 3/4" C	30A/3P	HMA	2,4,6			
P 3	BUILDING HEATING WATER PUMP	10 HP	480 V/3-11634 VA	25A MOC/P	3#10, 1#10G, 3/4" C	30A/3P	HMA	7,9,11			
P 4	BUILDING HEATING WATER PUMP	10 HP	480 V/3-11634 VA	25A MOC/P	3#10, 1#10G, 3/4" C	30A/3P	HMA	8,10,12			
P 5	BUILDING HEATING WATER PUMP	15 HP	480 V/3-17451 VA	40A MOC/P	3#8, 1#10G, 1" C	60A/3P	HMA	25,27,29			
P 6	BUILDING HEATING WATER PUMP	15 HP	480 V/3-17451 VA	40A MOC/P	3#8, 1#10G, 1" C	60A/3P	HMA	31,33,35			
P 7	BUILDING HEATING WATER PUMP	5 HP	480 V/3-6315 VA	15A MOC/P	2#12, 1#12G, 3/4" C	30A/3P	HMA	37,39,41			
P 8	BUILDING HEATING WATER PUMP	5 HP	480 V/3-6315 VA	15A MOC/P	2#12, 1#12G, 3/4" C	30A/3P	HMA	43,45,47			
P 9	BUILDING HEATING WATER PUMP	5 HP	480 V/3-6315 VA	15A MOC/P	2#12, 1#12G, 3/4" C	30A/3P	HMA	20,22,24			
P 10	BUILDING HEATING WATER PUMP	5 HP	480 V/3-6315 VA	15A MOC/P	2#12, 1#12G, 3/4" C	30A/3P	HMA	26,28,30			
P 11	BUILDING HEATING WATER PUMP	3 HP	480 V/3-3987 VA	15A MOC/P	2#12, 1#12G, 3/4" C	30A/3P	HMA	32,34,36			
P 12	BUILDING HEATING WATER PUMP	3 HP	480 V/3-3987 VA	15A MOC/P	2#12, 1#12G, 3/4" C	30A/3P	HMA	32,34,36			
P 13	BUILDING HEATING WATER PUMP	5 HP	480 V/3-6315 VA	15A MOC/P	2#12, 1#12G, 3/4" C	30A/3P	HMA	49,51,53			
P 14	BUILDING HEATING WATER PUMP	5 HP	480 V/3-6315 VA	15A MOC/P	2#12, 1#12G, 3/4" C	30A/3P	HMA	38,40,42			
P 15	BUILDING HEATING WATER PUMP	5 HP	480 V/3-6315 VA	15A MOC/P	2#12, 1#12G, 3/4" C	30A/3P	HMA	44,46,48			
P 16	BUILDING HEATING WATER PUMP	5 HP	480 V/3-6315 VA	15A MOC/P	2#12, 1#12G, 3/4" C	30A/3P	HMA	50,52,54			
SP 1	SUMP PUMP	1/2 HP	120 V/1-1176 VA	20A MOC/P	2#12, 1#12G, 3/4" C	30A/1P	LPG	55			
SP 2	SUMP PUMP	1/2 HP	120 V/1-1176 VA	20A MOC/P	2#12, 1#12G, 3/4" C	30A/1P	LPG	57			
ST 02D	STORAGE TANK	20 KW	480 V/3-19998 VA	30A MOC/P	3#10, 1#10G, 3/4" C	30A/3P	HMA	56,58,60			
TF 1-01	TRANSFER FAN	1/10 HP	120 V/1-528 VA	15A MOC/P	2#12, 1#12G, 3/4" C	30A/1P	LP1	1			
TF 2-01	TRANSFER FAN	1/10 HP	120 V/1-528 VA	15A MOC/P	2#12, 1#12G, 3/4" C	30A/1P	LP2	2			
TF 3-01	TRANSFER FAN	1/10 HP	120 V/1-528 VA	15A MOC/P	2#12, 1#12G, 3/4" C	30A/1P	LP4	6			
TF 4-01	TRANSFER FAN	1/10 HP	120 V/1-528 VA	15A MOC/P	2#12, 1#12G, 3/4" C	30A/1P	LP4	13			
TF B-01	TRANSFER FAN	3/4 HP	208 V/3-1332 VA	15A MOC/P	2#12, 1#12G, 3/4" C	30A/3P	LPG	44,46,48			
TF B-02	TRANSFER FAN	1/10 HP	120 V/1-528 VA	15A MOC/P	2#12, 1#12G, 3/4" C	30A/1P	LMA	8			
TF B-03	TRANSFER FAN	3/4 HP	208 V/3-1332 VA	15A MOC/P	2#12, 1#12G, 3/4" C	30A/3P	LSG	23,25,27			
TF B-04	TRANSFER FAN	1/4 HP	120 V/1-1152 VA	15A MOC/P	2#12, 1#12G, 3/4" C	30A/1P	LPG	8			
TF B-05	TRANSFER FAN	1/4 HP	120 V/1-1152 VA	15A MOC/P	2#12, 1#12G, 3/4" C	30A/1P	LMA	10			
UH 1	UNIT HEATER	18.4 FLA	480 V/3-15291 VA	25A MOC/P	3#10, 1#10G, 3/4" C	30A/3P	HMA	19,21,23			
UH 2	UNIT HEATER	18.4 FLA	480 V/3-15291 VA	25A MOC/P	3#10, 1#10G, 3/4" C	30A/3P	HWL	1,3,5			
UH 3	UNIT HEATER	18.4 FLA	480 V/3-15291 VA	25A MOC/P	3#10, 1#10G, 3/4" C	30A/3P	HWL	1,6,8,10			
UH 4	UNIT HEATER	12.2 FLA	277 V/1-3375 VA	20A MOC/P	2#12, 1#12G, 3/4" C	30A/2P	HWL	9			
WWHP 1a	WATER TO WATER HEAT PUMP	42 MCA	480 V/3-34902 VA	50A MOC/P	3#6, 1#10G, 1" C	60A/3P	HMA	14,16,18			
WWHP 1b	WATER TO WATER HEAT PUMP	42 MCA	480 V/3-34902 VA	50A MOC/P	3#6, 1#10G, 1" C	60A/3P	HMA	55,57,59			
WWHP 2	WATER TO WATER HEAT PUMP	96 MCA	480 V/3-79809 VA	SEE ONE-LINE	3#11/0, 1#6G, 2" C	200A/3P	HWSB	7			
WWHP 3	WATER TO WATER HEAT PUMP	96 MCA	480 V/3-79809 VA	SEE ONE-LINE	3#11/0, 1#6G, 2" C	200A/3P	HWSB	8			
WWHP 4	WATER TO WATER HEAT PUMP	96 MCA	480 V/3-79809 VA	SEE ONE-LINE	3#11, 1#8G, 1-1/2" C	100A/3P	HWSB	9			



2633 OSAGE ST  
DENVER, CO 80202  
720.512.3437



## The Amble

[illegible]

## The Ambler

**IFC SET**

## E7.01

UNIT MECHANICAL EQUIPMENT SCHEDULE (ERV)									
KEY	DESCRIPTION	VOLTS	PH	LOAD HP, VA	MOCPI/ MFS	BRANCH CIRCUIT (WIRE AND CONDUIT)	DISCONNECT	CIRCUIT NUMBER	NOTES
ERV-1-02	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-1-03A	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-1-03B	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-1-04	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-1-05	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-1-06	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-1-07A	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-1-07B	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-1-08	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-1-09	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-1-10	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-2-02	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-2-03A	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-2-03B	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-2-04	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-2-05	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-2-06	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-2-07A	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-2-07B	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-2-08	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-2-09	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-2-10	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-2-11	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-2-12A	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-2-12B	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-3-02	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-3-03A	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-3-03B	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-3-04	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-3-05	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-3-06	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-3-07A	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-3-07B	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-3-08	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-3-09	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-3-10	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-3-11	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-3-12A	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-3-12B	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-4-02	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-4-03A	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-4-03B	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-4-03C	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-4-04A	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-4-04B	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-4-05A	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-4-05B	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-4-06A	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-4-06B	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-4-07A	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-4-07B	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-4-07C	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-4-08A	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-4-08B	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-4-09A	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-4-09B	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-4-10	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-4-11	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-4-12A	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	
ERV-4-12B	ENERGY RECOVERY VENTILATOR	208	1	7.2 MCA	15 A	2#12, 1#12G, 3/4"C	30A/2P	SEE UNIT LOAD CENTER	



## E7.02

27

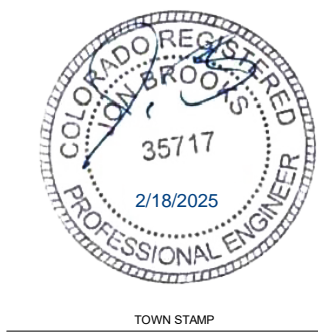
~~27~~



PANEL: LP1																	
LOCATION: MECH. 78						VOLTS: 120/208 Wye						A.I.C. RATING: 10kAIC					
SUPPLY FROM: LPG						PHASES: 3						MAINS TYPE: MLO					
MOUNTING: Surface						WIRES: 4						MAINS RATING: 400 A					
ENCLOSURE: Type 1												MCB RATING: N/A					
Notes:																	
CKT	LOAD TYPE	LOAD DESCRIPTION	TRIP	POLES	CB TYPE	A		B		C		CB TYPE	POLES	TRIP	LOAD DESCRIPTION	LOAD TYPE	CKT
1	M	TF-1-01	15	1		528	288						1	15	BBH 1-01L, 1-02	E	2
3	M	EF-1-01	20	1				80	360				1	20	EWC	R	4
5	L	LTG - LVL 1 CORRIDOR	20	1						120	360		1	20	EWC	R	6
7	E	IRRIGATION CONTROLLER	20	1		500	1080						1	20	REC - LOUNGE	R	8
9	L	LTG - LOUNGE	20	1				492	900				1	20	REC - LOUNGE	R	10
11	R	RCPTS - MAINTENANCE	20	1						540	360		1	20	REC - LOUNGE	R	12
13	R	REC - LOUNGE TV	20	1		1000	1920						1	20	GRILL TIMER / SHUT OFF	E	14
15	R	RCPTS - CORRIDORS	20	1				1440	1920				1	20	GRILL TIMER / SHUT OFF	E	16
17	E	AUTOMATED ACCESS DOOR OPERATOR	20	1						1500	1575	GFCI	2	30	HEAT TRACE DOWNSPOUT	E	18
19	E	HP-1-01	20	2		1133	1575					GFCI	--	--	--	--	20
21	--	--	--	--				1133	1185				2	20	HP-1-11	E	22
23	R	REC - LOUNGE	20	1						180	1185		--	--	--	--	24
25	E	GRILL POWER	30	2		1320	180						1	20	REC - FITNESS	R	26
27	--	--	--	--				1320	1575			GFCI	2	30	HEAT TRACE DOWNSPOUT	E	28
29	E	GRILL POWER	30	2						1320	1575	GFCI	--	--	--	--	30
31	--	--	--	--		1320	360						1	20	REC - FITNESS	R	32
33	R	REC - FITNESS	20	1				180	360				1	20	REC - FITNESS FLOOR	R	34
35	E	CUH-1-01	40	2						3000	360		1	20	REC - FITNESS FLOOR	R	36
37	--	--	--	--		3000	360						1	20	IDF QUAD	R	38
39	R	IDF QUAD	20	1				360	1080				1	20	REC - FITNESS	R	40
41	R	REC - EXT GFI	20	1						360	1080		1	20	REC - LOUNGE	R	42
43	R	REC - EXT GFI	20	1		1080	3000						2	40	CUH-1-02	E	44
45	E	CUH-1-03	40	2				3000	3000				--	--	--	--	46
47	--	--	--	--						3000	3000		2	40	CUH-1-04	E	48
49	E	HP-1-12	30	3		2628	3000						--	--	--	--	50
51	--	--	--	--				2628	0				1	20	SPARE	--	52
53	--	--	--	--						2628	0		1	20	SPARE	--	54
		--NOT A SPACE--				--	6952						3	200	PANEL LP2		
		--NOT A SPACE--						--	6449				--	--	--		
		--NOT A SPACE--								--	4771		--	--	--		
Total Load:						31224 VA		27462 VA		26914 VA							
Total Amps:						261 A		230 A		224 A							
CB TYPE LEGEND																	
GFCI: 5mA GROUND FAULT CIRCUIT INTERRUPTER																	
GFEP: 30mA GROUND FAULT PROTECTION FOR EQUIPMENT																	
AFCI: ARC FAULT CIRCUIT INTERRUPTER																	
CAFCI: COMBINATION ARC FAULT & 5mA GROUND FAULT CIRCUIT INTERRUPTER																	
LOAD TYPE:																	
LOADING:																	
RECEPTACLE:																	
MOTOR:																	
EQUIPMENT:																	
KITCH EQUIP:																	
CONTINUOUS:																	
EXISTING:																	
NOTES:																	
HC(-ON/OFF): HANDLE CLAMP FOR LOCKING IN ON/OFF POSITION																	
HT#: HANDLE TIE WITH GROUPING #																	
ST: SHUNT TRIP																	
LOCK: PERMANENTLY LOCKABLE BREAKER																	
CIRCUIT PHASE CODE LEGEND																	
N1. EXISTING LOAD ON EXISTING CIRCUIT BREAKER.																	
N2. NEW LOAD ON EXISTING CIRCUIT BREAKER.																	
N3. NEW LOAD ON NEW CIRCUIT BREAKER. CIRCUIT BREAKER AND AIC RATING TO MATCH EXISTING.																	
PANEL TOTALS																	
TOTAL CONN. LOAD: 85600 VA																	
TOTAL EST. LOAD: 80973 VA																	
TOTAL CONN.: 238 A																	
TOTAL EST. DEMAND: 225 A																	

PANEL: LPG																	
LOCATION: ELECTRICAL ROOM SUPPLY FROM: TPG MOUNTING: Surface ENCLOSURE: Type 1										VOLTS: 120/208 Wye PHASES: 3 WIRES: 4				A.I.C. RATING: 18KAIC MAINS TYPE: MCB MAINS RATING: 600 A MCB RATING: 500 A			
Notes:																	
CKT	LOAD TYPE	LOAD DESCRIPTION	TRIP	POLES	CB TYPE	A		B		C		CB TYPE	POLES	TRIP	LOAD DESCRIPTION	LOAD TYPE	CKT
1	E	BBH-B-08	20	1		290	1500						1	20	AUTOMATED ACCESS DOOR OPERATOR	E	2
3	R	MDF QUAD RECPT	20	1				360	500				1	20	EWC	R	4
5	L	LTG - GARAGE	20	1						308	540		1	20	REC - GARAGE LOBBY	R	6
7	R	REC - TRASH/GARAGE	20	1		540	1152						1	15	TF-B-04	M	8
9	R	REC - GARAGE STORAGE	20	1				900	1176				1	20	MOTORIZED DAMPER	M	10
11	E	AUTOMATED ACCESS DOOR OPERATOR	20	1						1000	1260		1	20	REC - GARAGE LOCKER RM	R	12
13	E	BOOT DRYER	20	1		1440	180						1	20	REC - ELEV-2A SHAFT	R	14
15	--	SPARE	20	1				0	0				1	20	SPARE	--	16
17	E	BOOT DRYER	20	1	27					1440	180		1	20	REC - ELEV-1B SHAFT	R	18
19	R	RCPT - EBIKE	20	1		180	1500						2	20	DH-B-01	E	20
21	E	HEAT TRACE - GUTTER,UNIT 211 PIPE	30	2	GFCI			975	1500				--	--	--	--	22
23	--	--	--	--	GFCI					975	1201		2	15	ERV-B-01	E	24
25	E	GARAGE DE-ICING SYSTEM	30	2	GFCI	2496	1201						2	40	--	--	26
27	--	--	--	--	GFCI			2496	3000				2	40	CUH-B-01	E	28
29	R	REC - MAIN ELEC RM	20	1						360	3000		--	--	--	--	30
31	E	BBH-B-09, BBH-B-10	15	1		1180	180						1	20	RCPT - BUILDING STORAGE 122 EBIKE	R	32
33	R	RCPT - BUILDING STORAGE 122 EBIKE	20	1				180	360				1	20	REC - GENERATOR RM / EXT GARAGE	R	34
35	--	SPARE	20	1						0	180		1	20	RCPT - EBIKE	R	36
37	R	RCPT - BUILDING STORAGE 122 EBIKE	20	1		180	360					27	1	20	MDF QUAD RECPT	R	38
39	E	BBH-B-07	15	1				590	2496			GFCI	2	30	GARAGE DE-ICING SYSTEM	E	40
41	R	RCPT - BUILDING STORAGE 122 EBIKE	20	1						180	2496	GFCI	--	--	--	--	42
43	E	BBH-B-05, BBH-B-11	15	1		1180	444						3	15	TF-B-01	M	44
45	E	GARAGE DOOR OPERATOR	20	3				1919	444				--	--	--	--	46
47	--	--	--	--						1919	444		--	--	--	--	48
49	--	--	--	--		1919	2628						3	30	HP-B-02	E	50
51	--	SPARE	20	1				0	2628				--	--	--	--	52
53	--	SPARE	20	1						0	2628		--	--	--	--	54
55	M	SP-1	20	1		1176	0						1	20	SPARE	--	56
57	M	SP-2	20	1				1176	0				1	20	SPARE	--	58
59	--	SPARE	20	1						0	0		1	20	SPARE	--	60
61		SPARE				0	0						1	20	SPARE	--	62
63		SPARE						0	0				1	20	SPARE	--	64
65		SPARE								0	0		1	20	SPARE	--	66
67	--	BUSSED SPACE	--	1		--	31224						3	400	PANEL LP1* (SUB-FEED BREAKER)	L; E;...	68
69	--	BUSSED SPACE	--	1				--	27462				--	--	--	--	70
71	--	BUSSED SPACE	--	1						--	26914		--	--	--	--	72
Total Load:						50950 VA		48162 VA		45025 VA							
Total Amps:						429 A		405 A		375 A							
CB TYPE LEGEND																	
GFCI: 5mA GROUND FAULT CIRCUIT INTERRUPTER																	
GFEP: 30mA GROUND FAULT PROTECTION FOR EQUIPMENT																	
AFCI: ARC FAULT CIRCUIT INTERRUPTER																	
CAFCI: COMBINATION ARC FAULT & 5mA GROUND FAULT CIRCUIT INTERRUPTER																	
LOAD TYPE:																	





**PANEL: LP2**

A.I.C. RATING: 10kAIC  
MAINS TYPE: MLO  
MAINS RATING: 225 A  
MCB RATING: N/A

**Notes: FEED THRU-LUGS**

CKT	LOAD TYPE	LOAD DESCRIPTION	TRIP	POLES	CB TYPE	A	B	C	CB TYPE	POLES	TRIP	LOAD DESCRIPTION	LOAD TYPE	CKT		
1	E	HP-2-01	20	2		1133	528				1	15	TF-2-01	M	2	
3	--	--	--	--				1133	540		1	20	RCPTS - MAINTENANCE	R	4	
5	R	IDF QUAD	20	1						360	1440	1	20	RCPTS - CORRIDORS	R	6
7	R	IDF QUAD	20	1		360	170					1	20	LTG - LVL 2 CORRIDOR	L	8
9	--	SPARE	20	1				0	0			1	20	SPARE	--	10
11	--	SPARE	20	1						0	0	1	20	SPARE	--	12
13	--	SPARE	20	1		0	0					1	20	SPARE	--	14
15	--	SPARE	20	1				0	0			1	20	SPARE	--	16
17	--	SPARE	20	1						0	0	1	20	SPARE	--	18
19	--	SPARE	20	1		0	0					1	20	SPARE	--	20
21	--	SPARE	20	1				0	0			1	20	SPARE	--	22
23	--	SPARE	20	1						0	0	1	20	SPARE	--	24
25	--	SPARE	20	1		0	0					1	20	SPARE	--	26
27	--	SPARE	20	1				0	0			1	20	SPARE	--	28
29	--	SPARE	20	1						0	0	1	20	SPARE	--	30
31	--	BUSSED SPACE	--	1		--	--					1	--	BUSSED SPACE	--	32
33	--	BUSSED SPACE	--	1				--	--			1	--	BUSSED SPACE	--	34
35	--	BUSSED SPACE	--	1						--	--	1	--	BUSSED SPACE	--	36
37	--	BUSSED SPACE	--	1		--	--					1	--	BUSSED SPACE	--	38
39	--	BUSSED SPACE	--	1				--	--			1	--	BUSSED SPACE	--	40
41	--	BUSSED SPACE	--	1						--	--	1	--	BUSSED SPACE	--	42
		--NOT A SPACE--				--	4761					3	200	PANEL 'LP3'		
		--NOT A SPACE--						--	4776			--	--	--		
		--NOT A SPACE--						--		2971		--	--	--		
Total Load:						6952 VA		6449 VA		4771 VA						
Total Amps:						60 A		56 A		40 A						

CB TYPE LEGEND				CIRCUIT PHASE CODE LEGEND			
GFCI: 5mA GROUND FAULT CIRCUIT INTERRUPTER				N1. EXISTING LOAD ON EXISTING CIRCUIT BREAKER.			
GFEP: 30mA GROUND FAULT PROTECTION FOR EQUIPMENT				N2. NEW LOAD ON EXISTING CIRCUIT BREAKER.			
AFCI: ARC FAULT CIRCUIT INTERRUPTER				N3. NEW LOAD ON NEW CIRCUIT BREAKER. CIRCUIT BREAKER AND AIC RATING TO MATCH EXISTING.			
CAFCI: COMBINATION ARC FAULT & 5mA GROUND FAULT CIRCUIT INTERRUPTER							

LOAD TYPE:	LOAD	DEMAND LOAD	PANEL TOTALS
LIGHTING:	510 VA	638 VA	TOTAL CONN. LOAD: 18172 VA
RECEPTACLE:	8100 VA	8100 VA	TOTAL EST. LOAD: 18432 VA
MOTOR:	1584 VA	1716 VA	TOTAL CONN.: 50 A
EQUIPMENT:	7978 VA	7978 VA	TOTAL EST. DEMAND: 51 A
KITCH EQUIP:			
CONTINUOUS:			
EXISTING:			
NOTES:			



**AE DESIGN**  
Integrated Lighting, Technology  
and Electrical Solutions  
1900 Wazee Street Suite #200  
Denver, CO 80202 303.296.3033  
aedesign-inc.com Proj #:6219.0

**The Amble**  
Steamboat Springs, CO

[illegible]

PROJECT NUMBER	20019
ISSUE DATE	03/15/2024

## The Amble

---

ISSUE

---

**IFC SET**

SHEET TITLE

## ELECTRICAL PANEL SCHEDULES

SHEET NO. \_\_\_\_\_

### E7.11



PANEL: HSG																	
LOCATION: ELEC ROOM						VOLTS: 480/277 Wye						A.I.C. RATING: 35KAIC					
SUPPLY FROM: HMSB						PHASES: 3						MAINS TYPE: MLO					
MOUNTING: Surface						WIRES: 4						MAINS RATING: 125 A					
ENCLOSURE: Type 1												MCB RATING: N/A					
Notes:																	
CKT	LOAD TYPE	LOAD DESCRIPTION	TRIP	POLES	CB TYPE	A		B		C		CB TYPE	POLES	TRIP	LOAD DESCRIPTION	LOAD TYPE	CKT
1	M	GF-B-02A, 02B	15	3		1152	1152						3	15	GF-B-04A, 04B	M	2
3	--	--	--	--				1152	1152				--	--	--	--	4
5	--	--	--	--						1152	1152		--	--	--	--	6
7	LM	ELEV-2A	40	3	ST	5817	0						1	20	SPARE	--	8
9	--	--	--	--	ST			5817	0				1	20	SPARE	--	10
11	--	--	--	--	ST					5817	0		1	20	SPARE	--	12
13	M	GF-02	15	3		1329	0						1	20	SPARE	--	14
15	--	--	--	--				1329	0				1	20	SPARE	--	16
17	--	--	--	--						1329	0		1	20	SPARE	--	18
19	--	SPARE	20	1		0	0						1	20	SPARE	--	20
21	--	SPARE	20	1				0	0				1	20	SPARE	--	22
23	--	SPARE	20	1						0	0		1	20	SPARE	--	24
25	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	26
27	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	28
29	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	30
31	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	32
33	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	34
35	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	36
37	--	BUSSED SPACE	--	1		--	10234						3	45	PANEL 'LSG' VIA XFMR 'TSG'	E; Spa...	38
39	--	BUSSED SPACE	--	1				--	11722				--	--	--	--	40
41	--	BUSSED SPACE	--	1						--	11458		--	--	--	--	42
Total Load:						19684 VA		21172 VA		20908 VA							
Total Amps:						71 A		77 A		76 A							
CB TYPE LEGEND																	
GFCI: 5mA GROUND FAULT CIRCUIT INTERRUPTER																	
GFEP: 30mA GROUND FAULT PROTECTION FOR EQUIPMENT																	
AFCI: ARC FAULT CIRCUIT INTERRUPTER																	
CAFCI: COMBINATION ARC FAULT & 5mA GROUND FAULT CIRCUIT INTERRUPTER																	
HC(-ON/OFF): HANDLE CLAMP FOR LOCKING IN ON/OFF POSITION																	
HT#: HANDLE TIE WITH GROUPING #																	
ST: SHUNT TRIP																	
LOCK: PERMANENTLY LOCKABLE BREAKER																	
CIRCUIT PHASE CODE LEGEND																	
N1. EXISTING LOAD ON EXISTING CIRCUIT BREAKER.																	
N2. NEW LOAD ON EXISTING CIRCUIT BREAKER.																	
N3. NEW LOAD ON NEW CIRCUIT BREAKER. CIRCUIT BREAKER AND AIC RATING TO MATCH EXISTING.																	
PANEL TOTALS																	
TOTAL CONN. LOAD: 61765 VA																	
TOTAL EST. LOAD: 67125 VA																	
TOTAL CONN.: 74 A																	
TOTAL EST. DEMAND: 81 A																	
LOAD TYPE:																	
LIGHTING:																	
RECEPTACLE:																	
MOTOR:																	
EQUIPMENT:																	
KITCH EQUIP:																	
CONTINUOUS:																	
EXISTING:																	
NOTES:																	

PANEL: LSG																	
LOCATION: POOL ROOM 122						VOLTS: 120/208 Wye						A.I.C. RATING: 10kAIC					
SUPPLY FROM: TSG						PHASES: 3						MAINS TYPE: MCB					
MOUNTING: Surface						WIRES: 4						MAINS RATING: 100 A					
ENCLOSURE: Type 1												MCB RATING: 100 A					
Notes:																	
CKT	LOAD TYPE	LOAD DESCRIPTION	TRIP	POLES	CB TYPE	A		B		C		CB TYPE	POLES	TRIP	LOAD DESCRIPTION	LOAD TYPE	CKT
1	E	2-WAY COMM	20	1		500	1176						1	20	MOTORIZED DAMPER	M	2
3	E	FACP	20	1				500	240				1	20	ELEVATOR SMOKE CURTAIN	E	4
5	E	GENERATOR WARMING PAD	20	1						1920	3598		3	30	GENERATOR COOLANT HEATER	E	6
7	E	ELEVATOR SMOKE CURTAIN	20	1		240	3598						--	--	--	--	8
9	E	GENERATOR BATTERY CHARGER	20	1				1920	3598				--	--	--	--	10
11	M	MOTORIZED DAMPER	20	1						1176	1176		1	20	MOTORIZED DAMPER	M	12
13	M	MOTORIZED DAMPER	20	1		1176	1176						1	20	MOTORIZED DAMPER	M	14
15	M	MOTORIZED DAMPER	20	1				1176	300				3	15	GF-B-03	M	16
17	M	GF-B-01	15	3						444	300		--	--	--	--	18
19	--	--	--	--		444	300						1	20	ELEV-2A CAB LIGHTING AND FAN	E	20
21	--	--	--	--				444	1920				1	20	ELEV-1B CAB LIGHTING AND FAN	E	22
23	M	TF-B-03	15	3						444	1920		1	20	ELEV VISUAL COMM. SYSTEM	E	24
25	--	--	--	--		444	200						1	20	ELEV VISUAL COMM. SYSTEM	E	26
27	--	--	--	--				444	200				1	20	ELEV VISUAL COMM. SYSTEM	E	28
29	--	SPARE	20	1						0	0		1	20	SPARE	--	30
31	--	SPARE	20	1		0	0						1	20	SPARE	--	32
33	--	SPARE	20	1				0	0				1	20	SPARE	--	34
35	--	SPARE	20	1						0	0		1	20	SPARE	--	36
37	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	38
39	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	40
41	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	42
		--NOT A SPACE--				--	980						3	60	PANEL LS2		
		--NOT A SPACE--						--	980				--	--	--		
		--NOT A SPACE--								--	480		--	--	--		
Total Load:						10234 VA		11722 VA		11458 VA							
Total Amps:						85 A		99 A		97 A							
CB TYPE LEGEND																	
GFCI: 5mA GROUND FAULT CIRCUIT INTERRUPTER																	
GFEP: 30mA GROUND FAULT PROTECTION FOR EQUIPMENT																	
AFCI: ARC FAULT CIRCUIT INTERRUPTER																	
CAFCI: COMBINATION ARC FAULT & 5mA GROUND FAULT CIRCUIT INTERRUPTER																	
LOAD TYPE:																	
LIGHTING:																	
RECEPTACLE:																	
MOTOR:																	
EQUIPMENT:																	
KITCH EQUIP:																	
CONTINUOUS:																	
EXISTING:																	
NOTES:																	
HC(-ON/OFF): HANDLE CLAMP FOR LOCKING IN ON/OFF POSITION																	
HT#: HANDLE TIE WITH GROUPING #																	
ST: SHUNT TRIP																	
LOCK: PERMANENTLY LOCKABLE BREAKER																	
CIRCUIT PHASE CODE LEGEND																	
N1. EXISTING LOAD ON EXISTING CIRCUIT BREAKER.																	
N2. NEW LOAD ON EXISTING CIRCUIT BREAKER.																	
N3. NEW LOAD ON NEW CIRCUIT BREAKER. CIRCUIT BREAKER AND AIC RATING TO MATCH EXISTING.																	
PANEL TOTALS																	
TOTAL CONN. LOAD: 33415 VA																	
TOTAL EST. LOAD: 33748 VA																	
TOTAL CONN.: 93 A																	
TOTAL EST. DEMAND: 94 A																	



PANEL: LMA																	
LOCATION: BOILER ROOM 123						VOLTS: 120/208 Wye						A.I.C. RATING: 10KAIC					
SUPPLY FROM: TMA						PHASES: 3						MAINS TYPE: MCB					
MOUNTING: Surface						WIRES: 4						MAINS RATING: 400 A					
ENCLOSURE: Type 1												MCB RATING: 400 A					
Notes:																	
CKT	LOAD TYPE	LOAD DESCRIPTION	TRIP	POLES	CB TYPE	A		B		C		CB TYPE	POLES	TRIP	LOAD DESCRIPTION	LOAD TYPE	CKT
1	E	HP-B-01	20	2		1133	1180						1	15	BBH B-01, BBH B-04	E	2
3	--	--	--	--				1133	1180				1	15	BBH-B-02, BBH B-03	E	4
5	P	REC - PANEL'S GFI	20	1						180	0		1	20	SPARE	--	6
7	M	SP-3 (SPA PUMP)	60	2	GFCI	2912	528						1	15	TF-B-02	M	8
9	--	--	--	--	GFCI			2912	1152								10
11	--	SPARE	20	1	GFCI					0	1798	GFCI	2	35	P-1 (POOL CIRC. PUMP)	M	12
13	--	SPARE	20	1		0	1798					GFCI	--	--	--	--	14
15	R	R	20	1				360	2912			GFCI	2	60	SP-4 (SPA PUMP)	M	16
17	--	SPARE	20	1						0	2912	GFCI	--	--	--	--	18
19	--	SPARE	20	1		0	0						1	20	SPARE	--	20
21	R	RECEPTS - MEP RM	20	1				720	0				1	20	SPARE	--	22
23	R	REC - POOL RM	20	1						540	1000	GFCI	1	20	CC-6, CC-20, CHEMICAL...	E	24
25	E	LMWR-1	50	1		2880	1000					GFCI	1	20	AF-32, AF-13 (AUTO-FILL WATER...	E	26
27	M	P-2 (POOL WATERFALL PUMP)	35	2	GFCI			1798	1000			GFCI	1	20	PS-4, SS-24 (SANITIZERS)	E	28
29	--	--	--	--	GFCI					1798	1000	GFCI	1	20	PA-5, SA-25 (ACID BALANCERS)	E	30
31	--	SPARE	20	1	GFCI	0	2004					GFCI	1	25	SB-37 (SPA JET AIR BLOWER)	E	32
33	E	PSC-1 CONTROLLER	20	1	GFCI			500	864				1	15	GF-1	E	34
35	L	POOLS/SPA LTG VIA PSC-1	20	1	GFCI					300	864		1	15	GF-2	E	36
37	--	SPARE	20	1	GFCI	0	0						1	20	SPARE	--	38
39	--	SPARE	20	1				0	0				1	20	SPARE	--	40
41	--	SPARE	20	1						0	0		1	20	SPARE	--	42
43	--	SPARE	20	1		0	0						1	20	SPARE	--	44
45	--	SPARE	20	1				0	0				1	20	SPARE	--	46
47	--	SPARE	20	1						0	0		1	20	SPARE	--	48
49	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	50
51	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	52
53	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	54
55	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	56
57	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	58
59	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	60
Total Load:						13435 VA		14531 VA		10392 VA							
Total Amps:						116 A		125 A		87 A							
CB TYPE LEGEND																	
GFCI: 5mA GROUND FAULT CIRCUIT INTERRUPTER						HC(-ON/OFF): HANDLE CLAMP FOR LOCKING IN ON/OFF POSITION						CIRCUIT PHASE CODE LEGEND					
GFEP: 30mA GROUND FAULT PROTECTION FOR EQUIPMENT						HT#: HANDLE TIE WITH GROUPING #						N1. EXISTING LOAD ON EXISTING CIRCUIT BREAKER.					
AFCI: ARC FAULT CIRCUIT INTERRUPTER						ST: SHUNT TRIP						N2. NEW LOAD ON EXISTING CIRCUIT BREAKER.					
CAFCI: COMBINATION ARC FAULT & 5mA GROUND FAULT CIRCUIT INTERRUPTER						LOCK: PERMANENTLY LOCKABLE BREAKER						N3. NEW LOAD ON NEW CIRCUIT BREAKER. CIRCUIT BREAKER AND AIC RATING TO MATCH EXISTING.					
LOAD TYPE:						LOAD			DEMAND LOAD			PANEL TOTALS					
LIGHTING:						300 VA			375 VA								
RECEPTACLE:						1800 VA			1800 VA			TOTAL CONN. LOAD: 38358 VA					
MOTOR:						19368 VA			20824 VA			TOTAL EST. LOAD: 39889 VA					
EQUIPMENT:						16890 VA			16890 VA			TOTAL CONN.: 106 A					
KITCH EQUIP:												TOTAL EST. DEMAND: 111 A					
CONTINUOUS:																	
EXISTING:																	
NOTES:																	

PANEL: HMA																	
LOCATION: MEP 108						VOLTS: 480/277 Wye						A.I.C. RATING: 35kAIC					
SUPPLY FROM: HMSB						PHASES: 3						MAINS TYPE: MLO					
MOUNTING: Surface						WIRES: 4						MAINS RATING: 600 A					
ENCLOSURE: Type 1												MCB RATING: N/A					
Notes:																	
CKT	LOAD TYPE	LOAD DESCRIPTION	TRIP	POLES	CB TYPE	A		B		C		CB TYPE	POLES	TRIP	LOAD DESCRIPTION	LOAD TYPE	CKT
1	M	P-1	25	3		3878	3878						3	25	P-2	M	2
3	--	--	--	--				3878	3878				--	--	--	--	4
5	--	--	--	--						3878	3878		--	--	--	--	6
7	M	P-3	25	3		3878	3878						3	25	P-4	M	8
9	--	--	--	--				3878	3878				--	--	--	--	10
11	--	--	--	--						3878	3878		--	--	--	--	12
13	E	DH-3	20	3		4200	11634						3	50	WWHP-1a	M	14
15	--	--	--	--				4200	11634				--	--	--	--	16
17	--	--	--	--						4200	11634		--	--	--	--	18
19	M	UH-01	25	3		5097	2105						3	15	P-9	M	20
21	--	--	--	--				5097	2105				--	--	--	--	22
23	--	--	--	--						5097	2105		--	--	--	--	24
25	M	P-5	40	3		5817	2105						3	15	P-10	M	26
27	--	--	--	--				5817	2105				--	--	--	--	28
29	--	--	--	--						5817	2105		--	--	--	--	30
31	M	P-6	40	3		5817	2658						3	15	P-11, 12	M	32
33	--	--	--	--				5817	2658				--	--	--	--	34
35	--	--	--	--						5817	2658		--	--	--	--	36
37	M	P-7	15	3		2105	2105						3	15	P-14	M	38
39	--	--	--	--				2105	2105				--	--	--	--	40
41	--	--	--	--						2105	2105		--	--	--	--	42
43	M	P-8	15	3		2105	2105						3	15	P-15	M	44
45	--	--	--	--				2105	2105				--	--	--	--	46
47	--	--	--	--						2105	2105		--	--	--	--	48
49	M	P-13	15	3		2105	2105						3	15	P-16	M	50
51	--	--	--	--				2105	2105				--	--	--	--	52
53	--	--	--	--						2105	2105		--	--	--	--	54
55	M	WWHP-1b	50	3		11634	6666						3	30	ST-02D STORAGE TANK HEATER	E	56
57	--	--	--	--				11634	6666				--	--	--	--	58
59	--	--	--	--						11634	6666		--	--	--	--	60
61	--	SPARE	20	1		0	0						1	20	SPARE	--	62
63	--	SPARE	20	1				0	0				1	20	SPARE	--	64
65	--	SPARE	20	1						0	0		1	20	SPARE	--	66
67	--	SPARE	20	1		0	13435						3	175	PANEL 'LMA' VIA XFMR 'TMA'	L; E...	68
69	--	SPARE	20	1				0	14531				--	--	--	--	70
71	--	SPARE	20	1						0	10392		--	--	--	--	72
73	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	74
75	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	76
77	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	78
79	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	80
81	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	82
83	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	84
Total Load:						99310 VA		100406 VA		96267 VA							
Total Amps:						360 A		364 A		348 A							
CB TYPE LEGEND																	
GFCI: 5mA GROUND FAULT CIRCUIT INTERRUPTER																	
GFEP: 30mA GROUND FAULT PROTECTION FOR EQUIPMENT																	
AFCI: ARC FAULT CIRCUIT INTERRUPTER																	
CAFCI: COMBINATION ARC FAULT & 5mA GROUND FAULT CIRCUIT INTERRUPTER																	
HC(-ON/OFF): HANDLE CLAMP FOR LOCKING IN ON/OFF POSITION																	
HT#: HANDLE TIE WITH GROUPING #																	
ST: SHUNT TRIP																	
LOCK: PERMANENTLY LOCKABLE BREAKER																	
CIRCUIT PHASE CODE LEGEND																	
N1. EXISTING LOAD ON EXISTING CIRCUIT BREAKER.																	
N2. NEW LOAD ON EXISTING CIRCUIT BREAKER.																	
N3. NEW LOAD ON NEW CIRCUIT BREAKER. CIRCUIT BREAKER AND AIC RATING TO MATCH EXISTING.																	
PANEL TOTALS																	
LOAD TYPE:						LOAD						DEMAND LOAD					
LIGHTING:						300 VA						375 VA					
RECEPTACLE:						1800 VA						1800 VA					
MOTOR:						244395 VA						253121 VA					
EQUIPMENT:						49488 VA						49488 VA					
KITCH EQUIP:																	
CONTINUOUS:																	
EXISTING:																	
NOTES:																	



PANEL: HML1																	
LOCATION: MECH. 78						VOLTS: 480/277 Wye						A.I.C. RATING: 35KAIC					
SUPPLY FROM: HWSB						PHASES: 3						MAINS TYPE: MLO					
MOUNTING: Surface						WIRES: 4						MAINS RATING: 250 A					
ENCLOSURE: Type 1												MCB RATING: N/A					
Notes:																	
CKT	LOAD TYPE	LOAD DESCRIPTION	TRIP	POLES	CB TYPE	A		B		C		CB TYPE	POLES	TRIP	LOAD DESCRIPTION	LOAD TYPE	CKT
1	M	UH-02	25	3		5097	150						1	20	LTG - SITE N	L	2
3	--	--	--	--				5097	2226				1	20	LTG - GARAGE	L	4
5	--	--	--	--						5097	5097		3	25	UH-03	M	6
7/43		LTG - LVL 1	20	1		1390	5097						--	--	--	--	8
9	M	UH-4	20	1				3375	5097				--	--	--	--	10
11	--	SPARE	20	1						0	0		1	20	SPARE	--	12
13	--	SPARE	20	1		0	0						1	20	SPARE	--	14
15	--	SPARE	20	1				0	0				1	20	SPARE	--	16
17	--	SPARE	20	1						0	0		1	20	SPARE	--	18
19	--	SPARE	20	1		0	0						1	20	SPARE	--	20
21	--	SPARE	20	1				0	0				1	20	SPARE	--	22
23	--	SPARE	20	1						0	0		1	20	SPARE	--	24
25	--	SPARE	20	1		0	0						1	20	SPARE	--	26
27	--	SPARE	20	1				0	0				1	20	SPARE	--	28
29	--	SPARE	20	1						0	0		1	20	SPARE	--	30
31	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	32
33	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	34
35	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	36
37	--	BUSSED SPACE	--	1		--	4758						3	125	PANEL 'HML3'	L; Spa...	38
39	--	BUSSED SPACE	--	1				--	4558				--	--	--	--	40
41	--	BUSSED SPACE	--	1						--	3878		--	--	--	--	42
Total Load:						16492 VA		20353 VA		14072 VA							
Total Amps:						61 A		75 A		51 A							
CB TYPE LEGEND																	
GFCI: 5mA GROUND FAULT CIRCUIT INTERRUPTER										HC(-ON/OFF): HANDLE CLAMP FOR LOCKING IN ON/OFF POSITION							
GFEP: 30mA GROUND FAULT PROTECTION FOR EQUIPMENT										HT#: HANDLE TIE WITH GROUPING #							
AFCI: ARC FAULT CIRCUIT INTERRUPTER										ST: SHUNT TRIP							
CAFCI: COMBINATION ARC FAULT & 5mA GROUND FAULT CIRCUIT INTERRUPTER										LOCK: PERMANENTLY LOCKABLE BREAKER							
CIRCUIT PHASE CODE LEGEND																	
N1.										EXISTING LOAD ON EXISTING CIRCUIT BREAKER.							
N2.										NEW LOAD ON EXISTING CIRCUIT BREAKER.							
N3.										NEW LOAD ON NEW CIRCUIT BREAKER. CIRCUIT BREAKER AND AIC RATING TO MATCH EXISTING.							
PANEL TOTALS																	
LOAD TYPE:						LOAD		DEMAND LOAD									
LIGHTING:						5326 VA		6658 VA									
RECEPTACLE:																	
MOTOR:						45591 VA		49414 VA									
EQUIPMENT:																	
KITCH EQUIP:																	
CONTINUOUS:																	
EXISTING:																	
NOTES:																	

</







