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ELECTRICAL SYMBOLS

LIGHTING FIXTURES

	SURFACE LIGHT FIXTURE
	RECESSED LIGHT FIXTURE
	EMERGENCY LIGHT FIXTURE
	WALL LIGHT FIXTURE - LINEAR
	STRIP LIGHT FIXTURE
	RECESSED CAN LIGHT FIXTURE
	SURFACE LIGHT FIXTURE
	PENDANT LIGHT FIXTURE
	TRACK LIGHT FIXTURE HEAD
	WALL LIGHT FIXTURE
	SELF-CONTAINED EMERGENCY LIGHT
	EMERGENCY LIGHT - SINGLE HEAD
	EXIT LIGHT - WALL MOUNTED
	EXIT LIGHT - CEILING MOUNTED
	EXIT LIGHT DIRECTIONAL ARROWS
	FAN & LIGHT COMBINATION
	POLE MOUNTED AREA LIGHT FIXTURE
	FLOOD LIGHT
	WALL MOUNTED AREA LIGHT FIXTURE
	CEILING MOUNTED FAN

LIGHTING CONTROLS

	SINGLE POLE SWITCH
	DIMMER SWITCH
	OCCUPANCY SENSOR SWITCH
	THREE & FOUR WAY SWITCH
	KEY OPERATED SWITCH
	PHOTOCELL
	MOTION SENSOR (WALL & CEILING)
	OCCUPANCY SENSOR (WALL & CEILING)

CONDUITS AND CONDUCTORS

	CONDUIT OR CABLE, CONCEALED U.N.O.
	NUMBER AND SIZE OF WIRES (NO SLASHES INDICATES 3#12)
	CONDUIT HOMERUN TO PANEL (PANEL & CIRCUIT NUMBER)

LIGHT FIXTURE NOMENCLATURE

	FIXTURE TYPE PER SCHEDULE
	ASSOCIATED SWITCH OR CONTROL ZONE (NO ID = CONTROL VIA SINGLE ROOM SWITCH) (NI = NIGHT LIGHT)
	PANEL & CIRCUIT #

FIRE ALARM DEVICES

	FIRE ALARM PANEL
	HEAT DETECTOR (FIXED TEMP. AS NOTED)
	SMOKE DETECTOR
	SMOKE/CO DETECTOR COMBO
	HORN
	HORN & STROBE
	STROBE
	FIRE ALARM PULL STATION
	MAGNETIC DOOR HOLDER
	FIRE SMOKE DAMPER

POWER DEVICES AND EQUIPMENT

	DUPLEX RECEPTACLE / QUADRUPLEX RECEPTACLE
	DUPLEX / QUADRUPLEX ABOVE COUNTER RECEPTACLE
	GFCI PROTECTED RECEPTACLE
	GFCI PROTECTED ABOVE COUNTER RECEPTACLE
	SPLIT WIRED RECEPTACLE
	SIMPLEX RECEPTACLE
	SPECIAL PURPOSE RECEPTACLE, 3Ø & 1Ø AS NOTED
	DUPLEX SMALL APPLIANCE RECEPTACLE
	DRYER RECEPTACLE, NEMA 14-30R
	ELECTRIC RANGE RECEPTACLE, NEMA 14-50R
	FLOOR MOUNTED DEVICE (RECEPTACLE SHOWN)
	CEILING MOUNTED DEVICE (RECEPTACLE SHOWN)
	POWER RECEPTACLE DROP
	JUNCTION BOX
	ELECTRIC MOTOR
	ELECTRIC MOTOR WITH STARTER SWITCH
	EXHAUST FAN
	UNIT HEATER
	CABINET UNIT HEATER
	FLUSH MOUNT ELECTRICAL PANEL - 208V & 480V
	SURFACE MOUNT ELECTRICAL PANEL - 208V & 480V
	NON-FUSED DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	COMBINATION MOTOR/STARTER DISCONNECT SWITCH
	VFD DISCONNECT
	PUSH BUTTON OR ACCESS CONTROL JUNCTION BOX
	PUSH BUTTON OR ACCESS CONTROL BOX
	TRAFFIC CONTROL JUNCTION BOX
	WALL / FLOOR MOUNTED MODULAR FURNITURE POWER

TELECOMMUNICATION DEVICES

	TELECOMMUNICATIONS OUTLET
	TELEPHONE (VOICE) OUTLET
	FLOOR MOUNTED DEVICE (TELECOMM SHOWN)
	CEILING MOUNTED DEVICE (TELECOMM SHOWN)
	SPEAKER (WALL & CEILING)
	TELEVISION OUTLET (WALL & CEILING)
	TELEVISION/DATA COMBO OUTLET (WALL & CEILING)
	CLOCK (DIGITAL & ANALOG)
	CLOCK & SPEAKER COMBINATION
	OVERHEAD PROJECTOR

SECURITY SYSTEM DEVICES

	INTERCOM / ACCESS CONTROL MASTER STATION
	INTERCOM / ACCESS CONTROL DOOR ENTRY STATION
	ACCESS CONTROL ELECTRIC STRIKE/LOCK
	POWER SUPPLY
	DOOR CHIME
	KEYPAD
	CARD READER
	GLASS BREAK SENSOR
	SURVEILLANCE CAMERA
	VARIABLE DIRECTION SURVEILLANCE CAMERA
	DOOR BELL BUTTON

ELECTRICAL SPECIFICATIONS

SECTION 26 05 00 - COMMON WORK RESULTS FOR ELECTRICAL

1. PROVIDE MATERIALS AND EQUIPMENT THAT ARE PRODUCTS OF MANUFACTURERS REGULARLY ENGAGED IN THE PRODUCTION OF SUCH PRODUCTS. ALL MATERIALS SHALL BE LISTED AND LABELED FOR THE APPLICATION WITH A NATIONALLY RECOGNIZED TESTING LABORATORY IN ACCORDANCE WITH NFPA 70.
2. MATERIALS AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH ALL REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE, STATE, MUNICIPAL, AND FEDERAL LAWS, AND AMENDMENTS GOVERNING THE PROJECT. INSTALLATION OF EQUIPMENT SHALL BE ACCORDANCE WITH THE WRITTEN INSTRUCTIONS RECOMMENDATIONS OF THE MANUFACTURER.
3. THE CONTRACTOR SHALL BECOME FAMILIAR WITH ALL DETAILS OF WORK AND VERIFY ALL DIMENSIONS IN THE FIELD SO THAT ALL OUTLETS AND EQUIPMENT ARE PROPERLY LOCATED AND READILY ACCESSIBLE.
4. LIGHTING FIXTURES, OUTLETS, AND OTHER EQUIPMENT AND MATERIALS SHALL BE COORDINATED WITH STRUCTURAL FEATURES AND ALL OTHER TRADES PRIOR TO INSTALLATION. IF ANY CONFLICTS OCCUR NECESSITATING DEPARTURES FROM THE DRAWINGS, DETAILS OF, AND REASONS FOR DEPARTURES SHALL BE SUBMITTED AND ACCEPTED PRIOR TO IMPLEMENTING ANY CHANGE.
5. THE LISTED PUBLICATIONS BELOW ESTABLISH MINIMUM REQUIREMENTS FOR MATERIALS, SYSTEMS AND EXECUTION THAT MAY BE SPECIFIED IN THIS SECTION AND UTILIZED FOR THIS PROJECT.
 - A. NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION (NECA): NECA 1 - STANDARD PRACTICES FOR GOOD WORKMANSHIP IN ELECTRICAL CONSTRUCTION
 - B. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA): NFPA 70 NATIONAL ELECTRICAL CODE, NFPA 70E STANDARD FOR ELECTRICAL SAFETY IN THE WORKPLACE.

SECTION 26 05 19 - POWER CONDUCTORS AND CABLES

1. PROVIDE WIRING, CABLES AND ASSOCIATED SPLICES, CONNECTORS, AND TERMINATIONS FOR WIRING SYSTEMS RATED 600 VOLTS AND LESS. CONDUCTOR AMPACITY SHALL BE BASED ON TABLE 310-16 OF THE NEC UTILIZING THE 60-DEGREE C. RATING COLUMN FOR CIRCUITS TERMINATING ON DEVICES RATED BELOW 100 AMPS AND THE 75-DEGREE C RATING COLUMN FOR CIRCUITS TERMINATING ON DEVICES AND IN ENCLOSURES RATED 100 AMPS AND GREATER.
2. ALL CONDUCTORS SHALL BE COPPER UNLESS NOTED OTHERWISE. ALL CONDUCTORS INSTALLED IN UNHEATED SPACES WITHIN THE BUILDING, UNDERGROUND, OR LOCATED OUTSIDE OF THE BUILDING SHALL HAVE TYPE XHHW 90 DEGREE C INSULATION. ALL CONDUCTORS INSTALLED WITHIN HEATED SPACES MAY HAVE XHHW OR THHN 90 DEGREE C INSULATION.
3. CONDUCTORS NO. 8 AWG AND LARGER DIAMETER SHALL BE STRANDED. CONDUCTORS NO. 12 AWG AND SMALLER SHALL BE SOLID, EXCEPT THAT CONDUCTORS FOR REMOTE CONTROL, ALARM, AND SIGNAL CIRCUITS, CLASSES 1, 2, AND 3 SHALL BE STRANDED.
4. BRANCH CIRCUITS: CONDUCTORS SHALL BE NOT SMALLER THAN NO. 12 AWG. CONDUCTORS FOR BRANCH CIRCUITS OF 120 VOLTS MORE THAN 100 FEET LONG AND OF 277 VOLTS MORE THAN 200 FEET LONG FROM PANEL TO FARTHEST DEVICE OR LOAD, SHALL BE NO SMALLER THAN NO. 10 AWG. CONDUCTORS FOR BRANCH CIRCUITS OF 120 VOLTS MORE THAN 150 FEET LONG AND OF 277 VOLTS MORE THAN 300 FEET LONG FROM PANEL TO FARTHEST DEVICE OR LOAD, SHALL BE NO SMALLER THAN NO. 8 AWG.
5. INSTALL CONDUCTORS IN COMPLIANCE WITH NEC REQUIREMENTS FOR TEMPERATURE AND CONDUIT FILL DERATING AND BOX FILL LIMITATIONS.
6. COLOR CODE CONDUCTORS AS FOLLOWS:
 - A. 240/120 VOLT, 1 PHASE, 3 WIRE: BLACK, RED, WHITE
7. GROUNDING CONDUCTORS: PROVIDE A GREEN EQUIPMENT GROUNDING CONDUCTOR IN EACH NEW RACEWAY, SIZED IN ACCORDANCE WITH NFPA 70, REGARDLESS OF THE TYPE OF CONDUIT.

SECTION 26 05 33 - RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS

1. PROVIDE RACEWAYS AND BOXES LISTED AND SUITABLE FOR THE PROPOSED APPLICATION. PROVIDE AN EFFICIENTLY LAID OUT SYSTEM THAT ALLOWS FOR FUTURE GROWTH. COORDINATE RACEWAYS WITH THE WORK OF OTHER TRADES, AND COORDINATE LAYOUT AND CONSTRUCTION WITH OTHER CONSTRUCTION ELEMENTS TO ENSURE MAXIMUM HEADROOM, WORKING CLEARANCE, AND ACCESS.
 2. UTILIZE RACEWAY SYSTEMS LISTED AND SUITABLE FOR THE ENVIRONMENT INSTALLED AS DEFINED BELOW:
 - A. OUTDOORS (EXPOSED): WEATHERPROOF RIGID STEEL CONDUIT OR EMT SYSTEM.
 - B. INDOORS (NOT SUBJECT TO PHYSICAL DAMAGE): EMT OR TYPE MC CABLE.
 - C. CONNECTION TO VIBRATING EQUIPMENT: FLEXIBLE METAL CONDUIT, LIQUID-TIGHT IN DAMP AND WET LOCATIONS.
- SECTION 26 24 16 PANELBOARDS & LOAD CENTERS
1. ALL PANELBOARDS SHALL BE FACTORY ASSEMBLED OF THE BOLTED CIRCUIT BREAKERS TYPE WITH SOLID COPPER BUSSING, FULL SIZED NEUTRAL, 100% GROUND BUSSING, AND OVERALL HINGED/LOCKABLE DOOR. ALL CIRCUIT BREAKERS SHALL BE OF THE QUICKMAKE AND QUICKBREAK DESIGN, THERMAL-MAGNETIC TYPE, TRIP FREE AND TRIP-INDICATING. ALL PANELS SHALL BE DEAD FRONT AND FLUSH OR SURFACE MOUNTED AS SHOWN AND SHALL BE FURNISHED WITH A TYPEWRITTEN DIRECTORY CARD OF THE CIRCUITS AND AN ENGRAVED NAMEPLATE.
 2. CIRCUIT BREAKER PANELBOARDS SHALL HAVE FULL LENGTH NON-TAPERED BUS BARS ARRANGED AND DRILLED FOR SEQUENCE PHASING.
 3. ALL PANELS SHALL HAVE DOORS FLUSH WITH THE TRIM, EQUIPPED WITH

- LOCKS, AND KEYED ALIKE. ALL MULTI-POLE BREAKERS SHALL BE COMMON TRIP.
4. ALL PANELBOARDS PHASE AMPERAGE SHALL BE BALANCED TO WITHIN 10 PERCENT MAX. TO MIN. REARRANGE BRANCH CIRCUITS AS REQUIRED AND NOTE CHANGES ON RECORD DRAWINGS.
 5. PANELS SHALL BE AS INDICATED ON THE DRAWINGS. ALL BRANCH CIRCUIT BREAKERS (C/B) SHALL BE RATED 20 AMPERES SINGLE POLE MINIMUM, EXCEPT AS NOTED OR REQUIRED BY LOCAL CODES.
 6. PROVIDE LOCKOUT CLIPS ON CIRCUIT BREAKERS WHERE INDICATED ON PANEL SCHEDULE.
 7. PROVIDE ONE SPARE 1" CONDUIT FOR EACH SIX SPACES OR SPARE CIRCUIT BREAKERS IN EACH RECESSED MOUNTED PANEL. MINIMUM 1- SPARE CONDUIT PER PANEL. RUN CONDUIT TO A LOCATION JUST ABOVE CEILING.
 8. CIRCUIT BREAKERS SERVING HEATING, VENTILATION, AND/OR AIR CONDITIONING (HVAC) EQUIPMENT SHALL BE RATED AND MARKED "HACR", IF FUSING IS NOT PROVIDED AT PIECE OF HVAC EQUIPMENT. FIELD VERIFY EXACT "HACR" BREAKER REQUIREMENTS WITH HVAC EQUIPMENT NAMEPLATE AND MANUFACTURER'S REQUIREMENTS PRIOR TO INSTALLATION.
 9. IN SERVICE ENTRANCE APPLICATIONS, PANELS SHALL BEAR THE MANUFACTURER'S LABEL INDICATING THE EQUIPMENT IS RATED FOR "SERVICE ENTRANCE" APPLICATION IN ACCORDANCE WITH THE NEC AND AS INDICATED ON DRAWINGS.
 10. PANELBOARDS SHALL HAVE A MINIMUM SHORT CIRCUIT CURRENT RATING AS INDICATED ON THE DRAWINGS.
 11. VERIFY ACTUAL AIC SHORT CIRCUIT CURRENT REQUIREMENTS WITH OWNER OR UTILITY COMPANY PRIOR TO ORDERING EQUIPMENT.
 12. AFTER COMPLETION, ALL PANELBOARDS SHALL BE CLEANED BOTH INSIDE AND OUTSIDE.
 13. MANUFACTURER SHALL BE SQUARE "D" OR EQUAL BY GENERAL ELECTRIC, CUTLER HAMMER, SQUARE D OR APPROVED EQUAL.

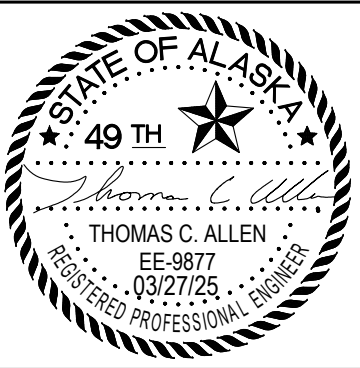
SECTION 26 27 26 - WIRING DEVICES

1. PROVIDE RECEPTACLES, CONNECTORS, SWITCHES, AND FINISH PLATES OF TYPES AND QUANTITIES SUITABLE FOR THE PROJECT AND INTENDED USE. WIRING DEVICES SHALL MEET NEMA WD 1 AND NEMA WD 6. WIRING TERMINALS SHALL BE OF THE SCREW TYPE OR OF THE SOLDERLESS PRESSURE TYPE HAVING SUITABLE CONDUCTOR-RELEASE ARRANGEMENT. WIRING DEVICES SHALL BE IMPACT RESISTANT NYLON WITH WHITE COLOR UNLESS NOTED OTHERWISE.
 2. DEVICE PLATES ON UNFINISHED WALLS MAY BE OF ZINC-COATED SHEET STEEL, OR CAST METAL HAVING ROUNDED OR BEVELED EDGES. DEVICE PLATES ON FINISHED WALLS SHALL BE STAINLESS STEEL OR MATCH DEVICE COLOR, COORDINATE WITH ARCHITECT. SCREWS SHALL BE OF METAL WITH COUNTERSUNK HEADS, IN A COLOR TO MATCH THE FINISH OF THE PLATE.
 3. SINGLE AND DUPLEX RECEPTACLES SHALL BE RATED 20 AMPERES, 125 VOLTS, 2-POLE, 3-WIRE, GROUNDING TYPE WITH POLARIZED PARALLEL SLOTS, BACK AND SIDE WIRED.
 4. TOGGLE SWITCHES SHALL BE RATED 120-277 VOLT AC GROUNDING TYPE, TOTALLY ENCLOSED, GENERAL USE.
- SECTION 26 51 00- INTERIOR LIGHTING
1. PROVIDE AND INSTALL ALL LIGHTING EQUIPMENT AS SHOWN ON THE DRAWINGS AND SPECIFIED IN THE LIGHTING FIXTURE SCHEDULE. PROVIDE WITH ALL OPTIONS AND ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION IN COMPLIANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 2. REPAIR ALL SURFACE TO MATCH EXISTING WHERE DAMAGED BY INSTALLATION OF NEW LIGHTING FIXTURES OR CIRCUITRY. PAINT ALL EXPOSED RACEWAYS AND BOXES TO MATCH ADJACENT SURFACES.

MOUNTING HEIGHT SCHEDULE	
*SWITCHES	4'-0"
*RECEPTACLES	1'-6"
*WEATHERPROOF RECEPTACLES	2'-0"
BRANCH PANELS (TOP)	6'-6"
DISCONNECT SWITCHES (TOP)	5'-6"
MOUNTING HEIGHTS SHALL PREVAIL ON ALL NEW CONSTRUCTION UNLESS OTHERWISE NOTED.	
MOUNTING HEIGHTS ARE TO CENTER OF DEVICE AND ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.	
COORDINATE FINAL MOUNTING HEIGHTS FOR DEVICES ABOVE COUNTERS WITH ARCHITECTURAL ELEVATIONS.	
COORDINATE FINAL MOUNTING HEIGHTS FOR DEVICES FOR EQUIPMENT WITH ARCHITECTURAL ELEVATIONS.	
MOUNTING FOR DEVICES SHOWN ABOVE BASEBOARD HEATERS, 4" ABOVE HEATER, MOUNTED VERTICALLY.	
THESE ARE TYPICAL MOUNTING HEIGHTS. NOT ALL DEVICES ARE NECESSARILY APPLICABLE TO THIS PROJECT.	
*MOUNTING HEIGHTS COMPLY WITH ICC/ANSI A117.1-09	

ELECTRICAL ABBREVIATIONS

AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AIC	AMPERES INTERRUPTING CAPACITY
AMP, A	AMPERE
ARCH	ARCHITECTURAL
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
AW	ABOVE WINDOW
C	CONDUIT
°C	CELSIUS
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CLG	CEILING
CO	CONDUIT ONLY
COMM	COMMUNICATIONS
DW	DISH WASHER
EF	EXHAUST FAN
E, Ex, EXIST	EXISTING
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPS
G, GRD	GROUND
GFCI	GROUND FAULT CURRENT INTERRUPTER
GF	GROUND FAULT PROTECTION
HP	HORSE POWER
IN, "	INCHES
K	DEGREE KELVIN
KCMIL, MCM	THOUSAND CIRCULAR MILS
KVA	KILOVOLT AMPERES
KW	KILOWATT
LC	LIGHTING CONTACTOR
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MECH	MECHANICAL
MLO	MAIN LUGS ONLY
MW	MICROWAVE
N	NEUTRAL
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NO, #	NUMBER
OFCl	OWNER FURNISHED/ CONTRACTOR INSTALLED
PA	PUBLIC ADDRESS
PC	PHOTO CELL
PH, Ø	PHASE
RECPT, REC	RECEPTACLE
REF	REFRIGERATOR
REQ, REQD	REQUIRED
Re	RELOCATED
TELECOM	TELECOMMUNICATIONS
TV	TELEVISION
TYP	TYPICAL
UC	UNDER COUNTER
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
V	VOLTS
VA	VOLT AMPERES
VFD	VARIABLE FREQUENCY DRIVE
W	WATT
WAP	WIRELESS ACCESS POINT
WP	WEATHERPROOF
WR	WEATHER RESISTANT
XFMR	TRANSFORMER



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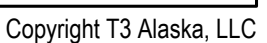
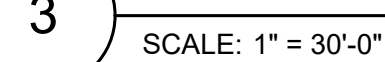
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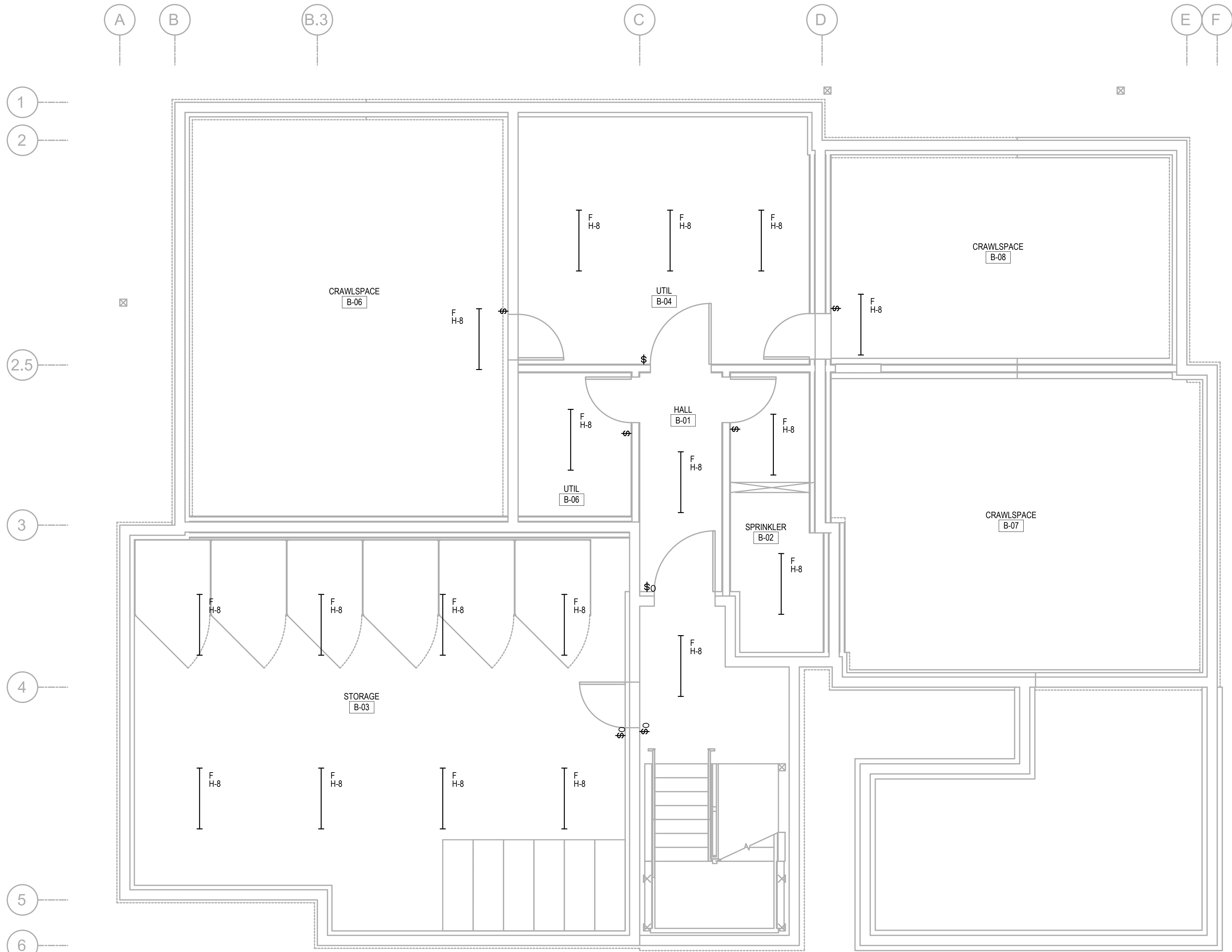
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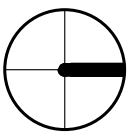
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LEGENDS, SYMBOLS,
& ABBREVIATIONS



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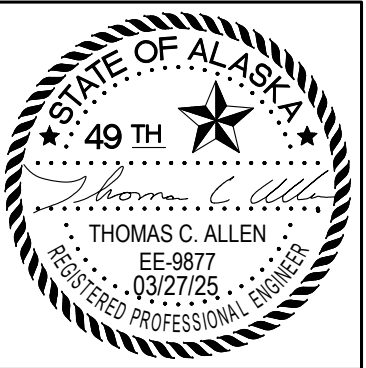


1 **BUILDING A - BASEMENT LIGHTING PLAN**
SCALE: 1/4" = 1'-0"



GENERAL NOTES

- COORDINATE EXACT LOCATION OF LIGHTING FIXTURES IN UTILITY TYPE SPACES WITH STRUCTURAL MEMBERS, MECHANICAL EQUIPMENT AND OTHER SYSTEMS. MINOR RELATION OF FIXTURE IS ACCEPTABLE TO AVOID CONFLICT WITH OTHER SYSTEMS.



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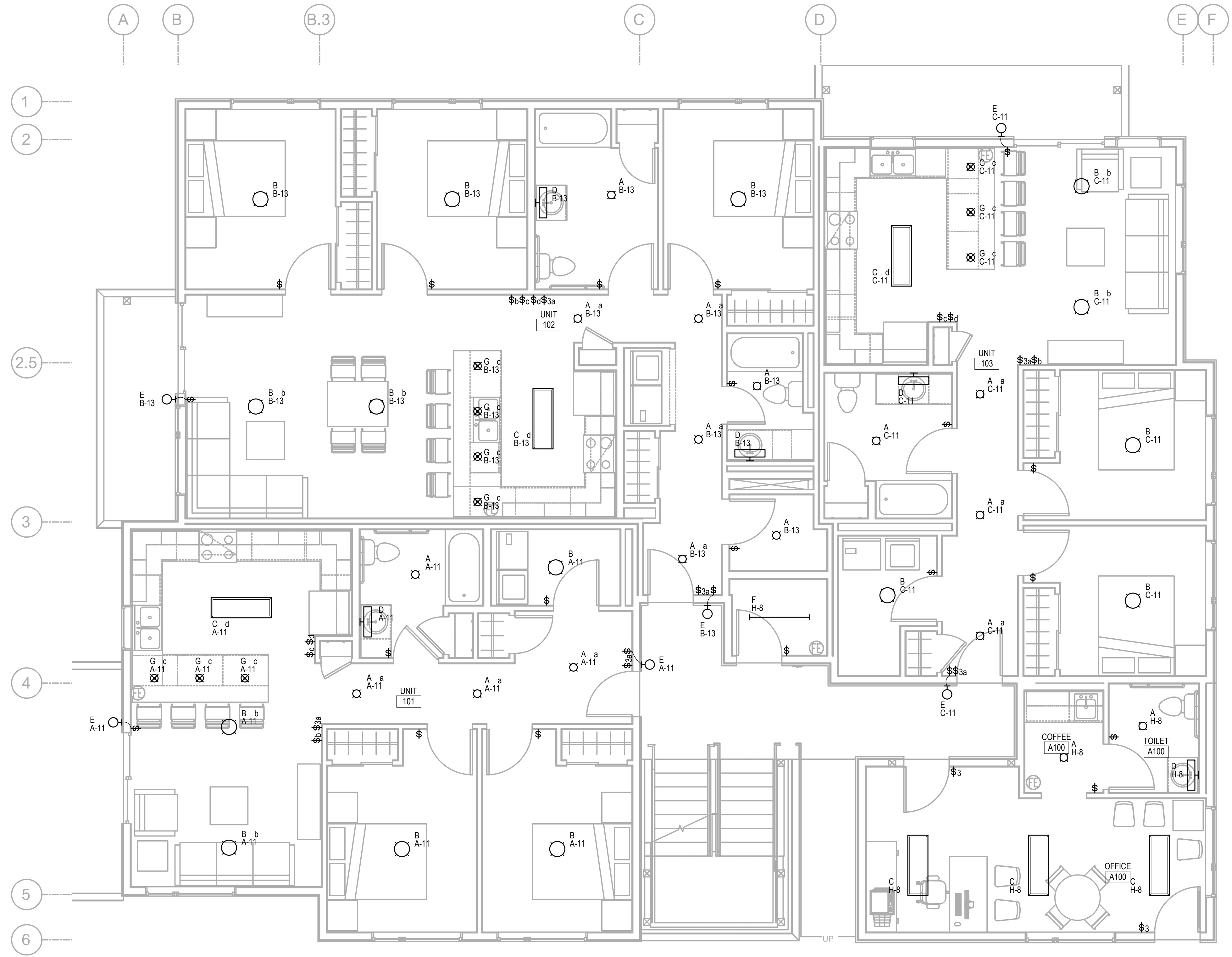
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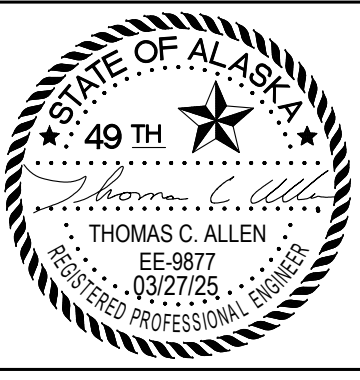
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BUILDING A
BASEMENT
LIGHTING PLAN

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0"
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1 BUILDING A - FIRST FLOOR LIGHTING PLAN
SCALE: 1/4" = 1'-0"



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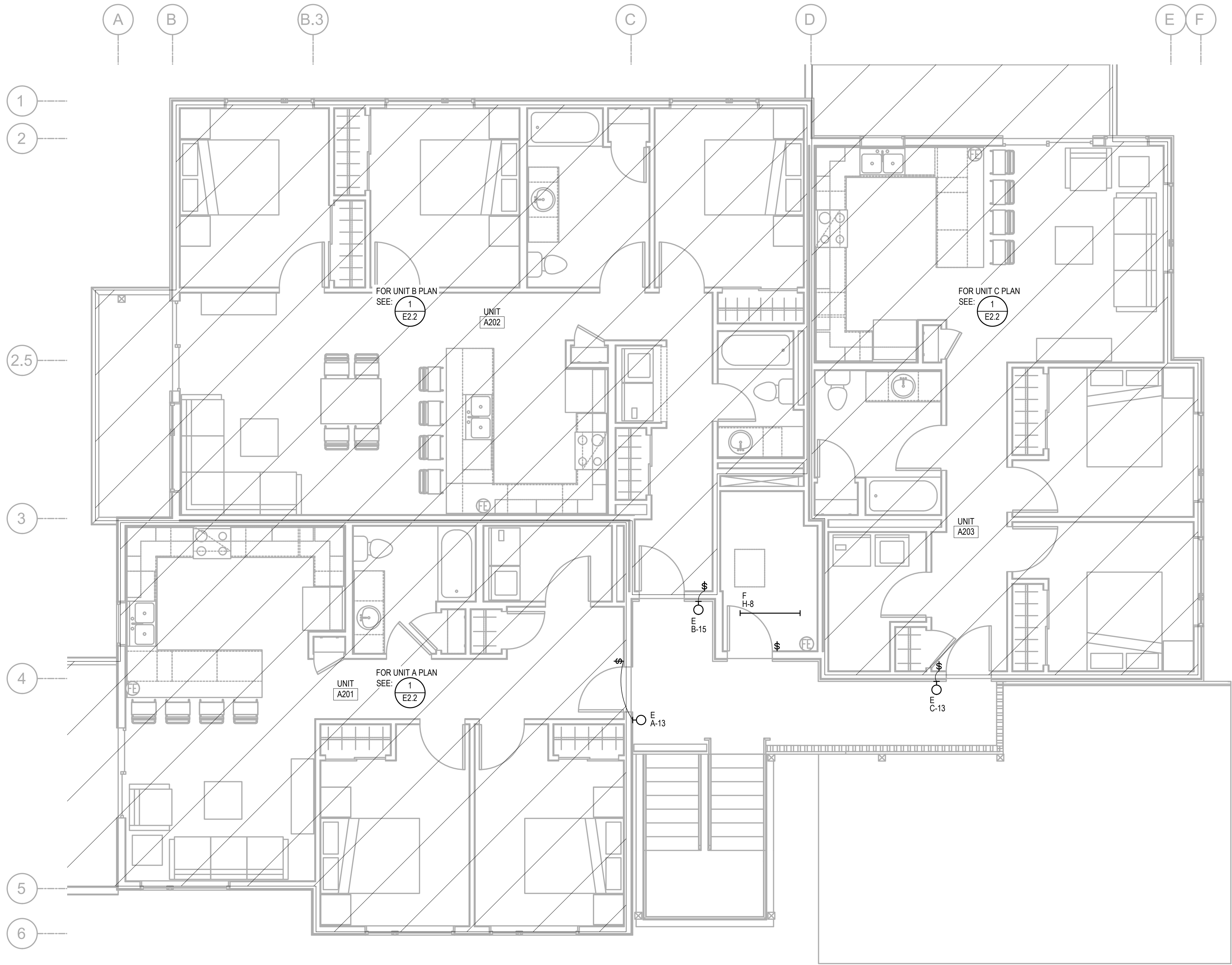
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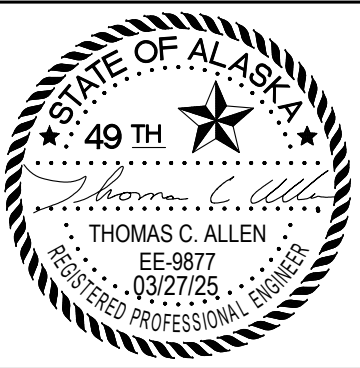
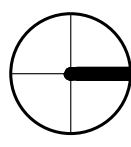
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BUILDING A
FIRST FLOOR
LIGHTING PLAN

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1 BUILDING A - SECOND FLOOR LIGHTING PLAN
SCALE: 1/4" = 1'-0"



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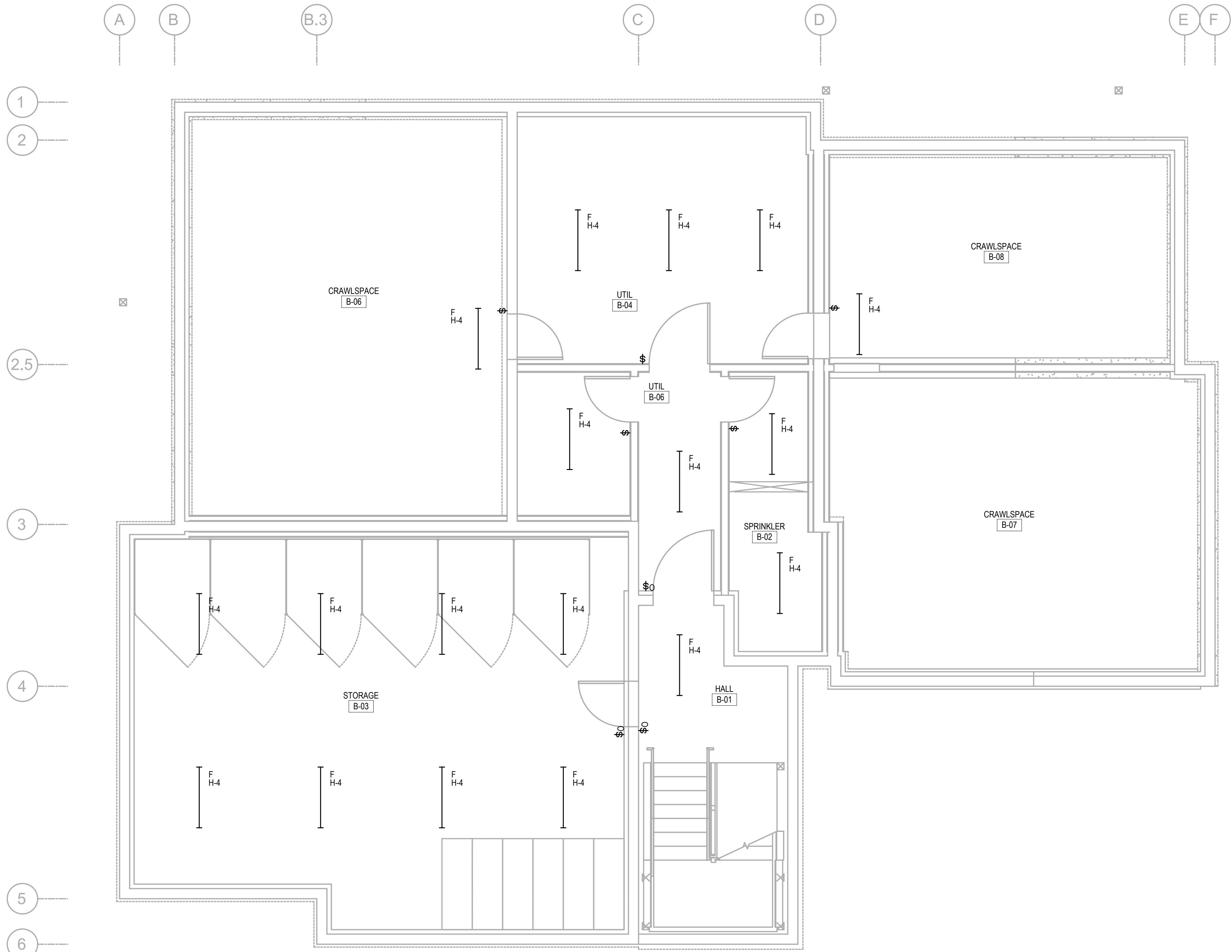
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SECOND FLOOR
LIGHTING PLAN

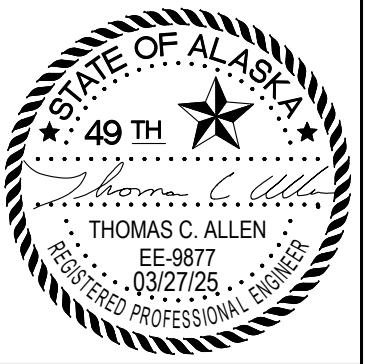
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1 **BUILDING B & C - BASEMENT LIGHTING PLAN**
SCALE: 1/4" = 1'-0"

- GENERAL NOTES**
- COORDINATE EXACT LOCATION OF LIGHTING FIXTURES IN UTILITY TYPE SPACES WITH STRUCTURAL MEMBERS, MECHANICAL EQUIPMENT AND OTHER SYSTEMS. MINOR RELATION OF FIXTURE IS ACCEPTABLE TO AVOID CONFLICT WITH OTHER SYSTEMS.



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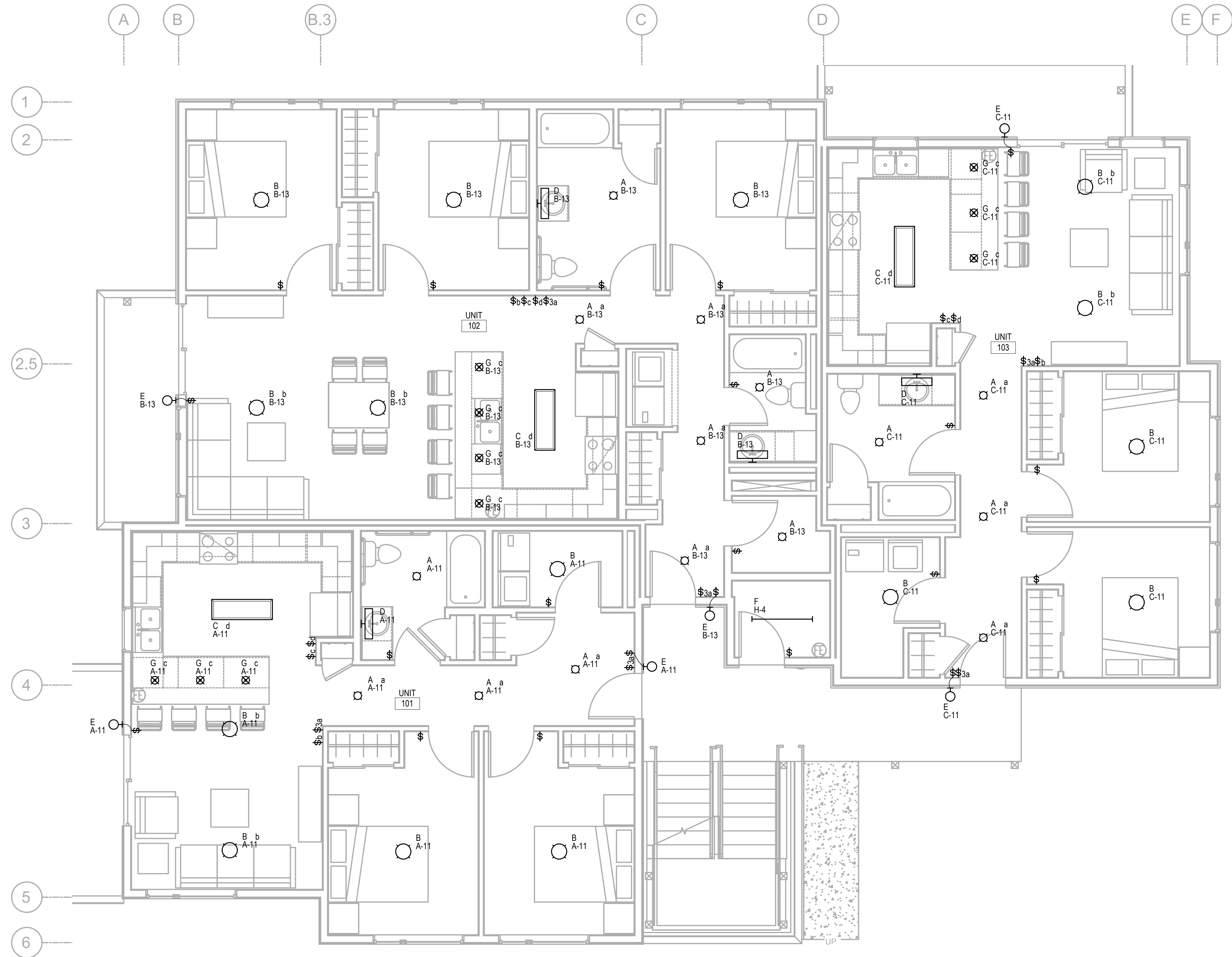
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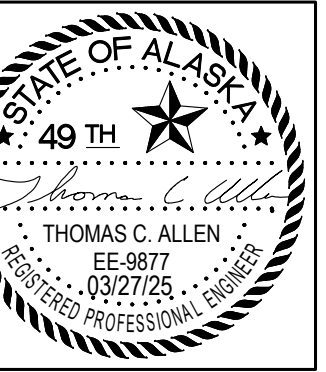
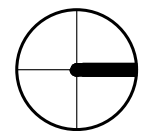
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BUILDING B & C
BASEMENT
LIGHTING PLAN

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1 BUILDING B & C - FIRST FLOOR LIGHTING PLAN
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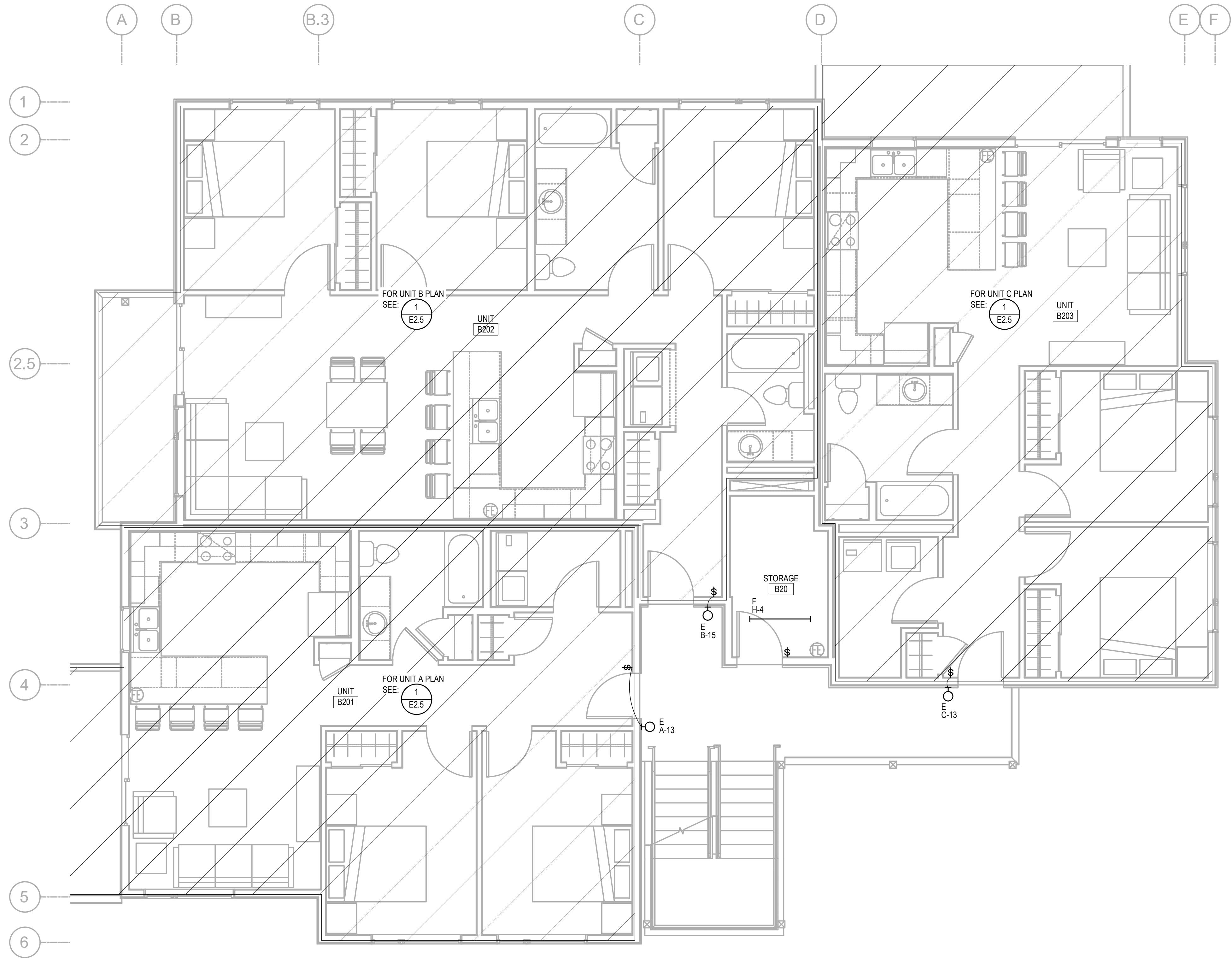
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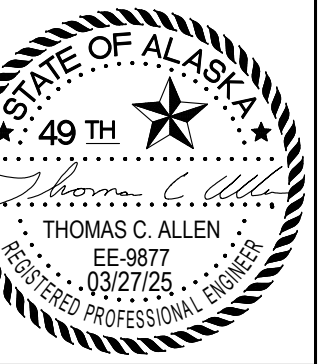
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BUILDING B & C FIRST FLOOR LIGHTING PLAN

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1 **BUILDING B & C - SECOND & THIRD FLOOR LIGHTING PLAN**
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ANCHORAGE, ALASKA

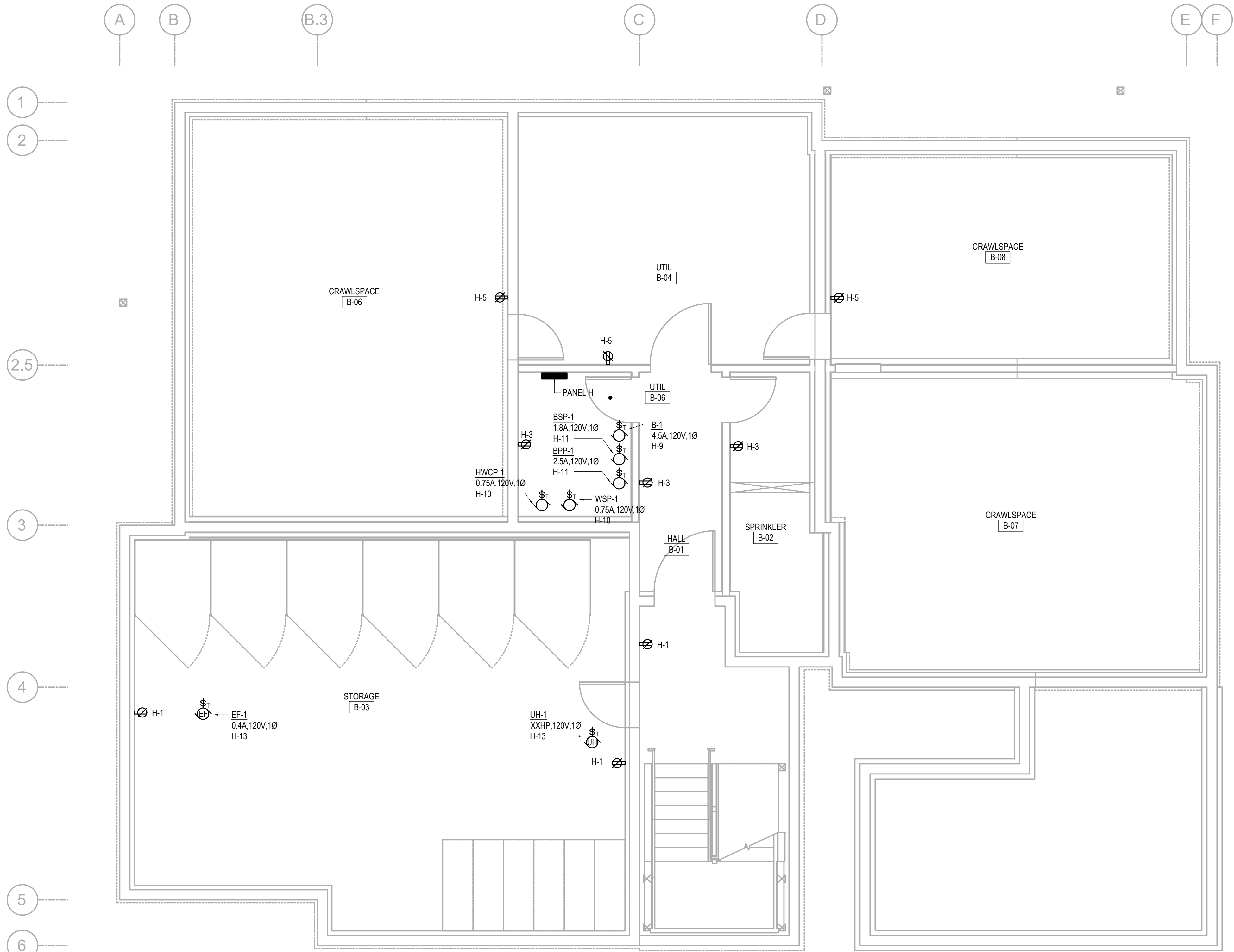
Revision Schedule		
No.	Description	Date

Drawn:	MJM
Reviewed:	TCA
Date:	2025-03-27
Job No:	2025.017.0

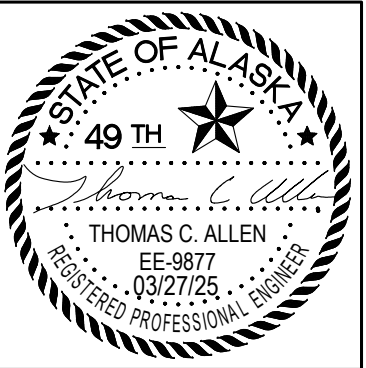
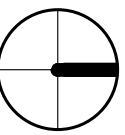
Sheet Contents
BUILDING B & C
SECOND & THIRD FLOOR
LIGHTING PLAN

Drawing No.
E2.6
8 of 16E
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0"
1"



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



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ANCHORAGE, ALASKA

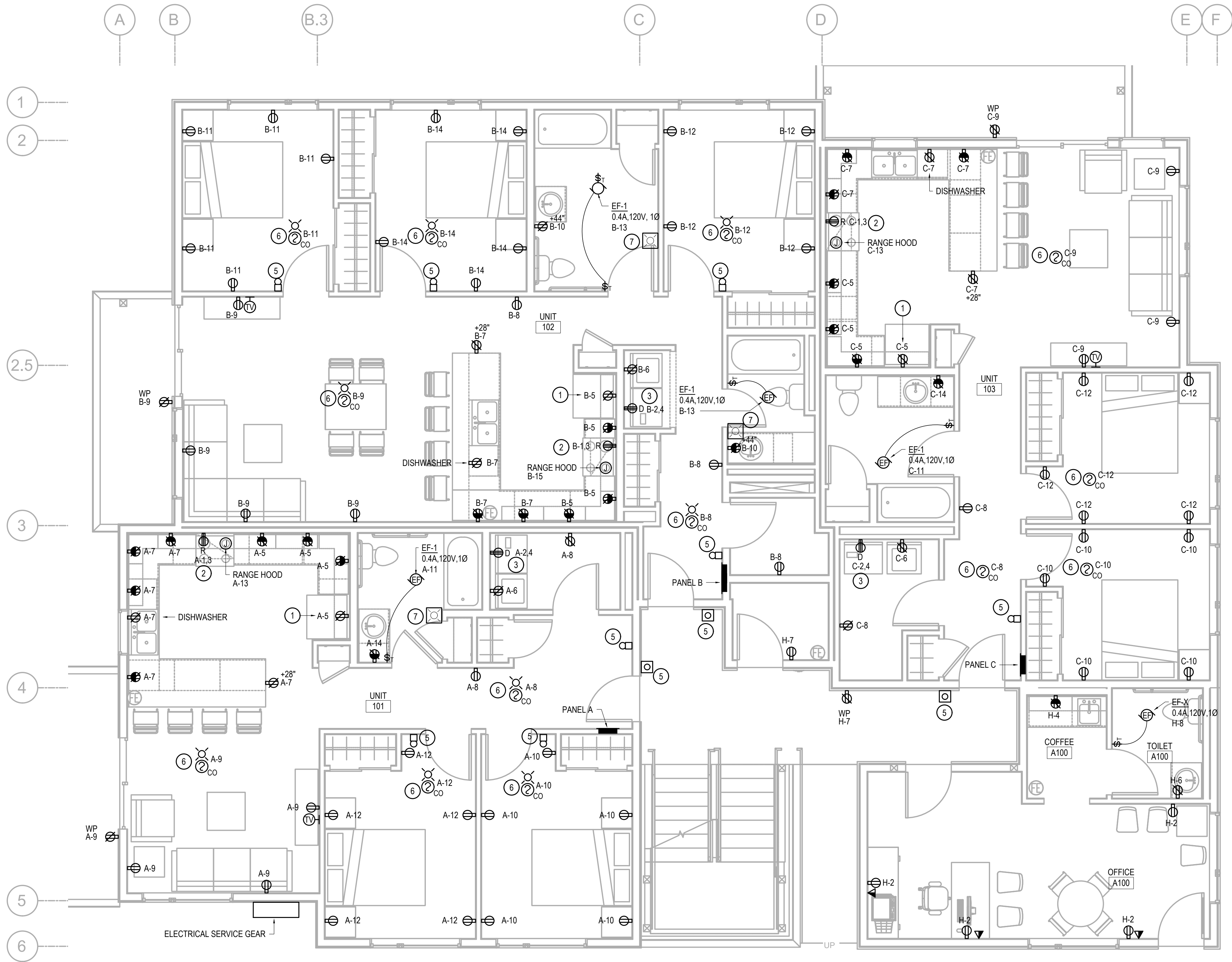
Revision Schedule		
No.	Description	Date

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Job No:	2025.017.0

Sheet Contents
BUILDING A
BASEMENT
POWER PLAN

Drawing No.
E3.1
9 of 16E
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0"
1"



1 **BUILDING A - FIRST FLOOR POWER PLAN**
SCALE: 1/4" = 1'-0"

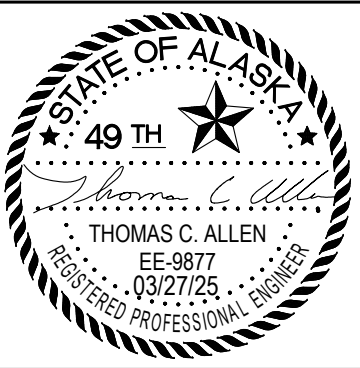
GENERAL NOTES

- PROVIDE TAMPER RESISTANT RECEPTACLES FOR ALL DWELLING UNIT RECEPTACLES IN ACCORDANCE WITH NEC 406.12.
- COMMON WALLS BETWEEN UNITS ARE FIRE RATED PER ARCHITECTURAL. PROVIDE LISTED FIRE RATED BOXES AND PUTTY PADS IN ACCORDANCE WITH IRC 714.3.2 TO PROVIDE FIRE RATING AS REQUIRED TO MAINTAIN FIRE RATING. DO NOT INSTALL DEVICES/BOXES IN THE SAME STUD SPACE IN COMMON WALLS BETWEEN UNITS.

SHEET NOTES

INDICATED BY: (#)

- PROVIDE GFCI PROTECTION FOR REFRIGERATOR RECEPTACLE VIA NEAREST ACCESSIBLE ABOVE COUNTER RECEPTACLE
- RANGE: 50A, 208V, 1Ø WITH 3#6 AND 1#8 GND.
- DRYER: 30A, 208V, 1Ø WITH 3#10 AND 1#12 GND
- THIS UNIT SHALL COMPLY WITH GUIDELINES AND REQUIREMENTS OF UNIFORM FEDERAL ACCESSIBILITY STANDARDS (UFAS). LIGHT SWITCHES SHALL COMPLY WITH 4.1 AND 4.28. ALL APPLICABLE SECTIONS SHALL BE FOLLOWED.
- PROVIDE DOORBELL SWITCH, CHIMES, & TRANSFORMER AS NECESSARY. CHIMES IN UFAS UNITS 101 & 102 SHALL INCLUDE A FLASHING LIGHT.
- PROVIDE CEILING MOUNTED 120V COMBO SMOKE/CARBON MONOXIDE ALARMS (WHERE INDICATED) WITH BATTERY BACK UP AND FORM C RELAY. INTERCONNECT DETECTORS TO ACTIVATE ALL ALARMS INSIDE EACH UNIT. PROVIDE STROBES TO COMPLY WITH UFAS SIGHT & SOUND REQUIREMENTS IN UNITS 101 & 102.
- PROVIDE FIRE ALARM STROBE IN BATHROOMS TO COMPLY WITH UFAS SIGHT AND SOUND REQUIREMENTS IN UNITS 101 & 102.



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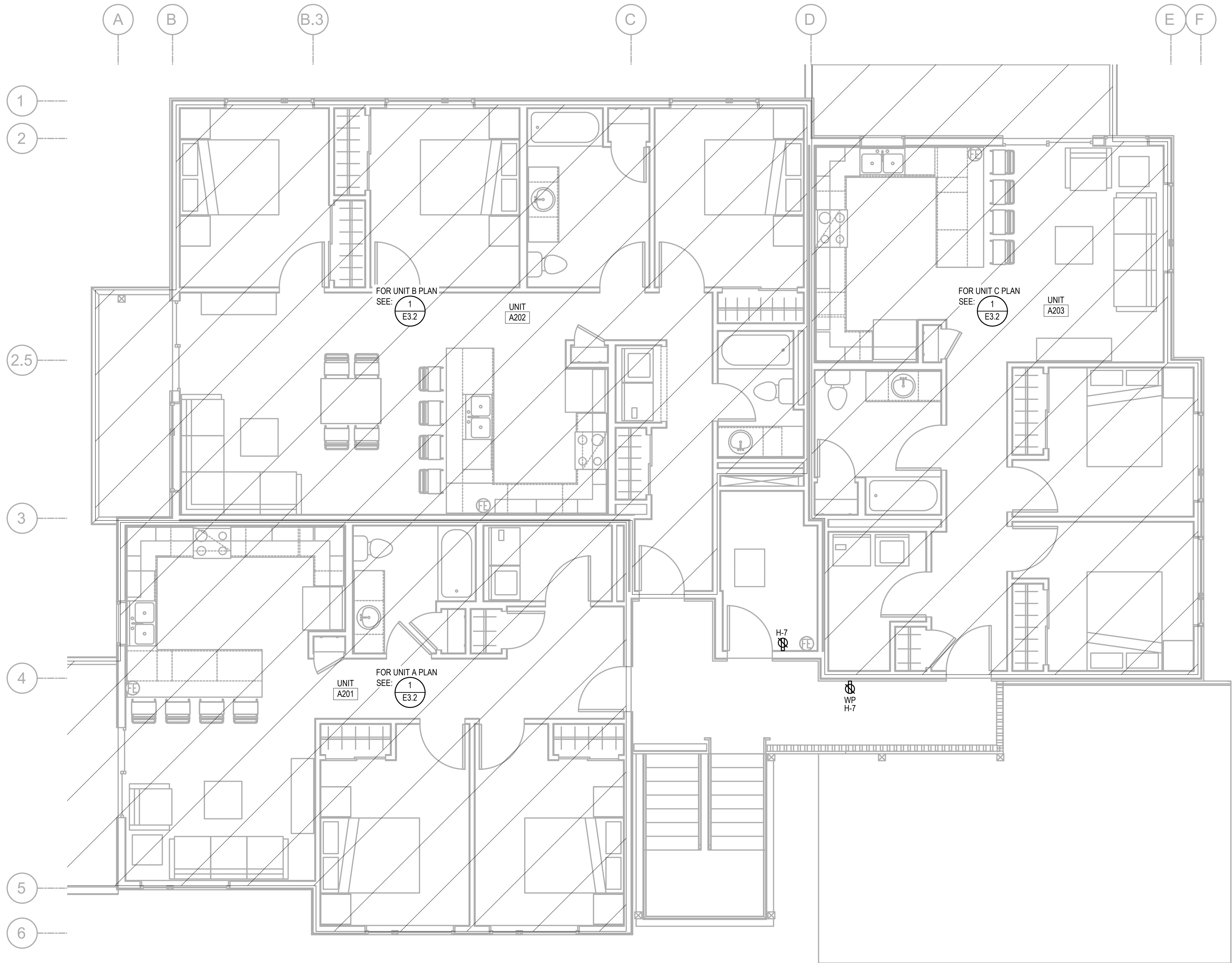
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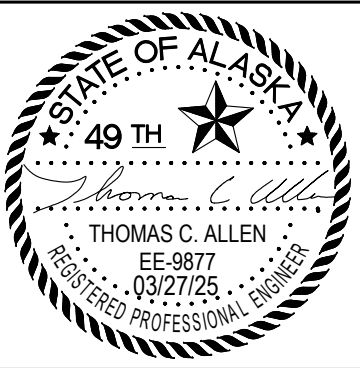
Sheet Contents
BUILDING A
FIRST FLOOR
POWER PLAN

Drawing No.
E3.2
10 of 16E
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0"
1"



1 BUILDING A - SECOND FLOOR POWER PLAN
SCALE: 1/4" = 1'-0"



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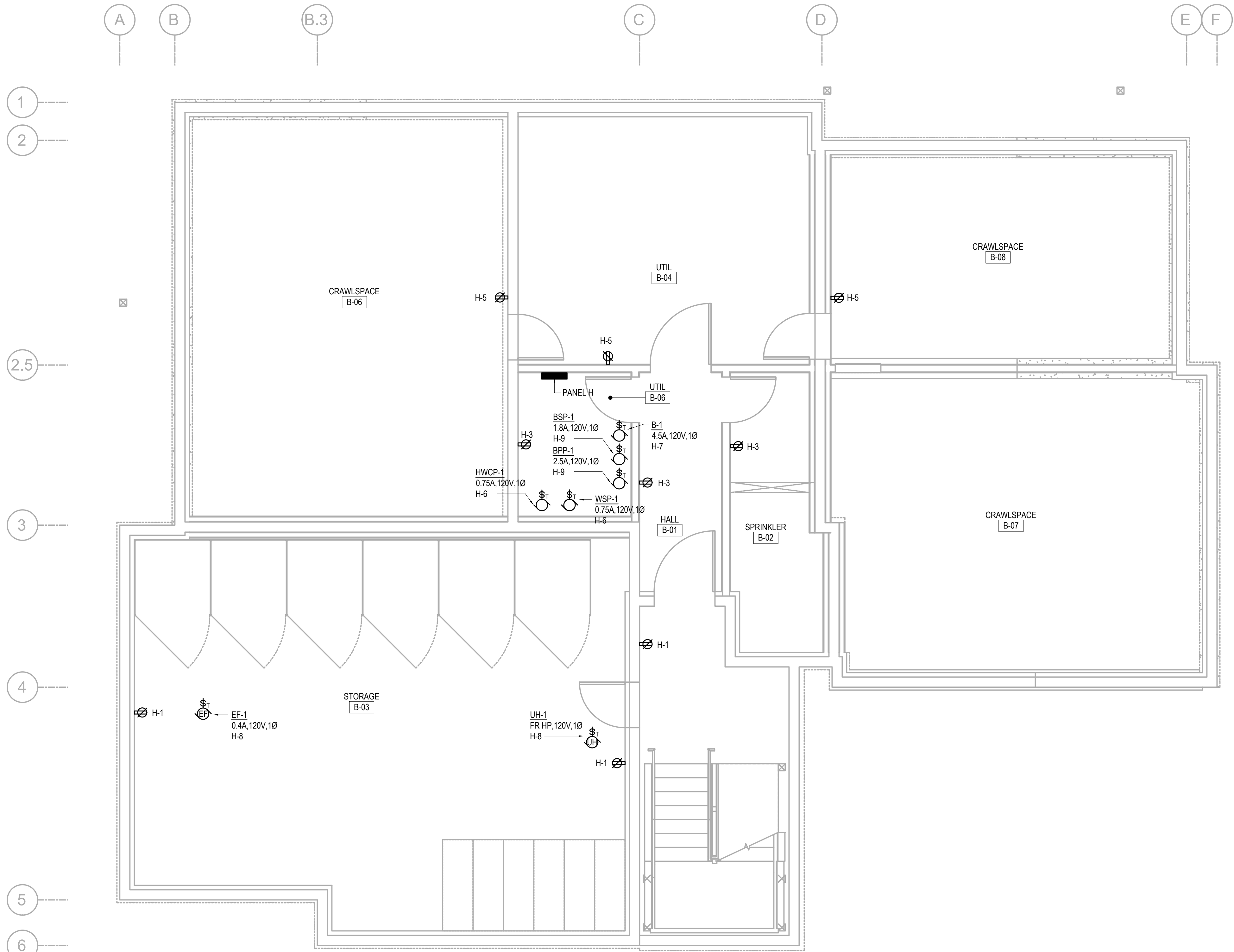
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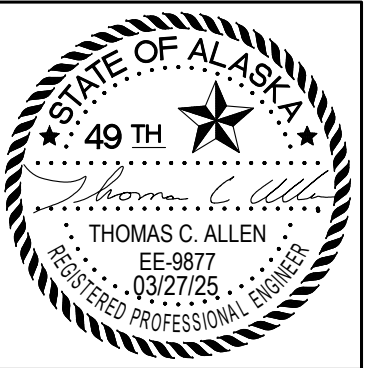
Sheet Contents
BUILDING A
SECOND FLOOR
POWER PLAN

Drawing No.
E3.3
11 of 16E
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0"
1"



1 **BUILDING B & C - BASEMENT POWER PLAN**
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BAXTER FAMILY HOUSING
ANCHORAGE, ALASKA

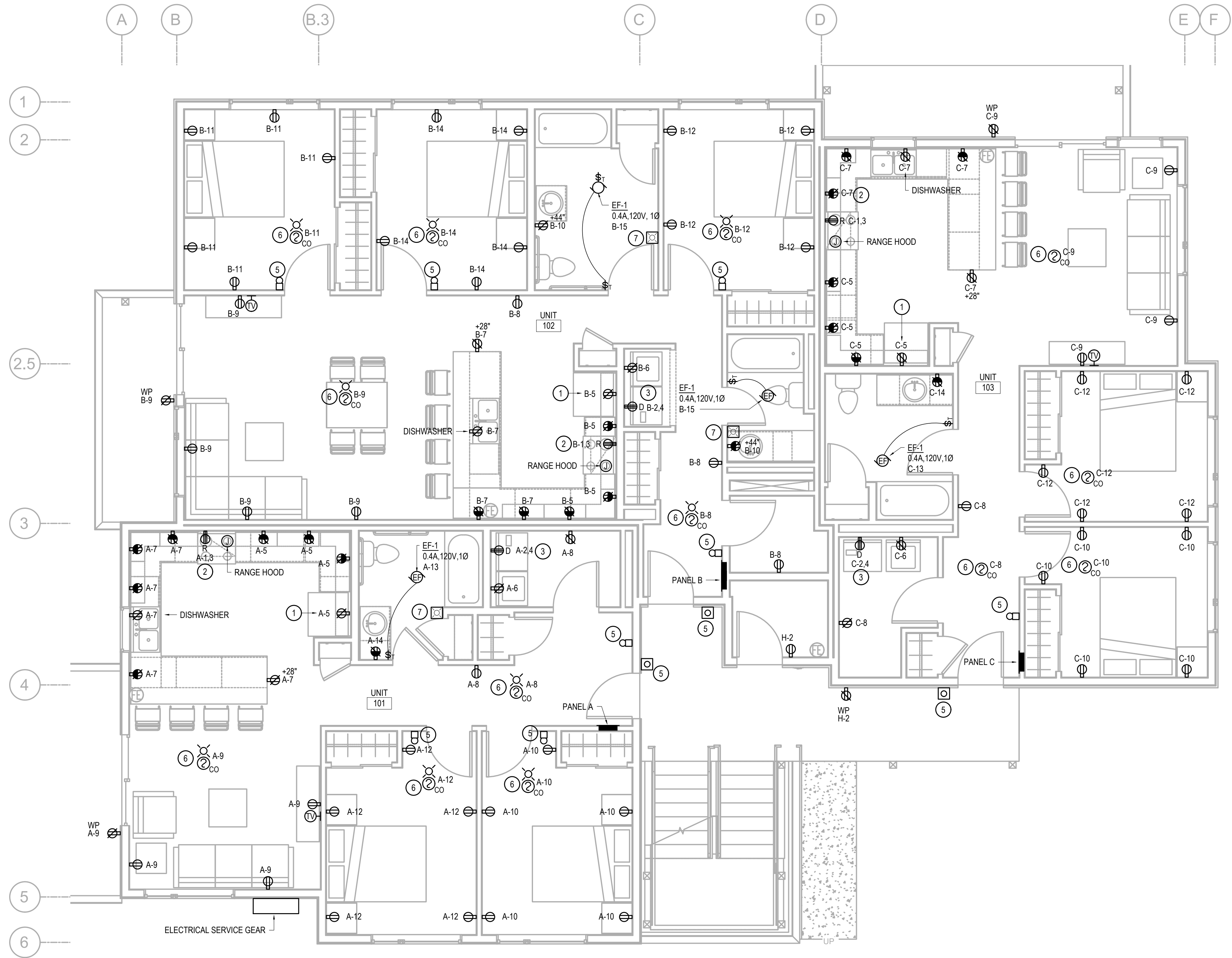
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Sheet Contents
BUILDING B & C
BASEMENT
POWER PLAN

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E3.4
12 of 16E
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0"
1"



1 BUILDING B & C - FIRST FLOOR POWER PLAN
SCALE: 1/4" = 1'-0"

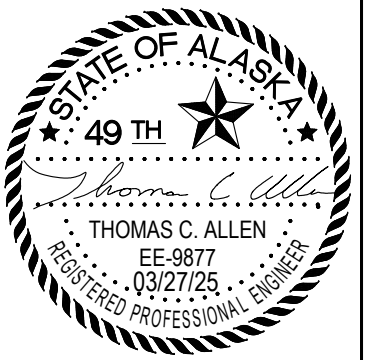
GENERAL NOTES

1. PROVIDE TAMPER RESISTANT RECEPTACLES FOR ALL DWELLING UNIT RECEPTACLES IN ACCORDANCE WITH NEC 406.12.
2. COMMON WALLS BETWEEN UNITS ARE FIRE RATED PER ARCHITECTURAL. PROVIDE LISTED FIRE RATED BOXES AND PUTTY PADS IN ACCORDANCE WITH IRC 714.3.2 TO PROVIDE FIRE RATING AS REQUIRED TO MAINTAIN FIRE RATING. DO NOT INSTALL DEVICES/BOXES IN THE SAME STUD SPACE IN COMMON WALLS BETWEEN UNITS.

SHEET NOTES

INDICATED BY: (#)

1. PROVIDE GFCI PROTECTION FOR REFRIGERATOR RECEPTACLE VIA NEAREST ACCESSIBLE ABOVE COUNTER RECEPTACLE
2. RANGE: 50A, 208V, 1Ø WITH 3#6 AND 1#8 GND.
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4. THIS UNIT SHALL COMPLY WITH GUIDELINES AND REQUIREMENTS OF UNIFORM FEDERAL ACCESSIBILITY STANDARDS (UFAS). LIGHT SWITCHES SHALL COMPLY WITH 4.1 AND 4.28. ALL APPLICABLE SECTIONS SHALL BE FOLLOWED.
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ANCHORAGE, ALASKA

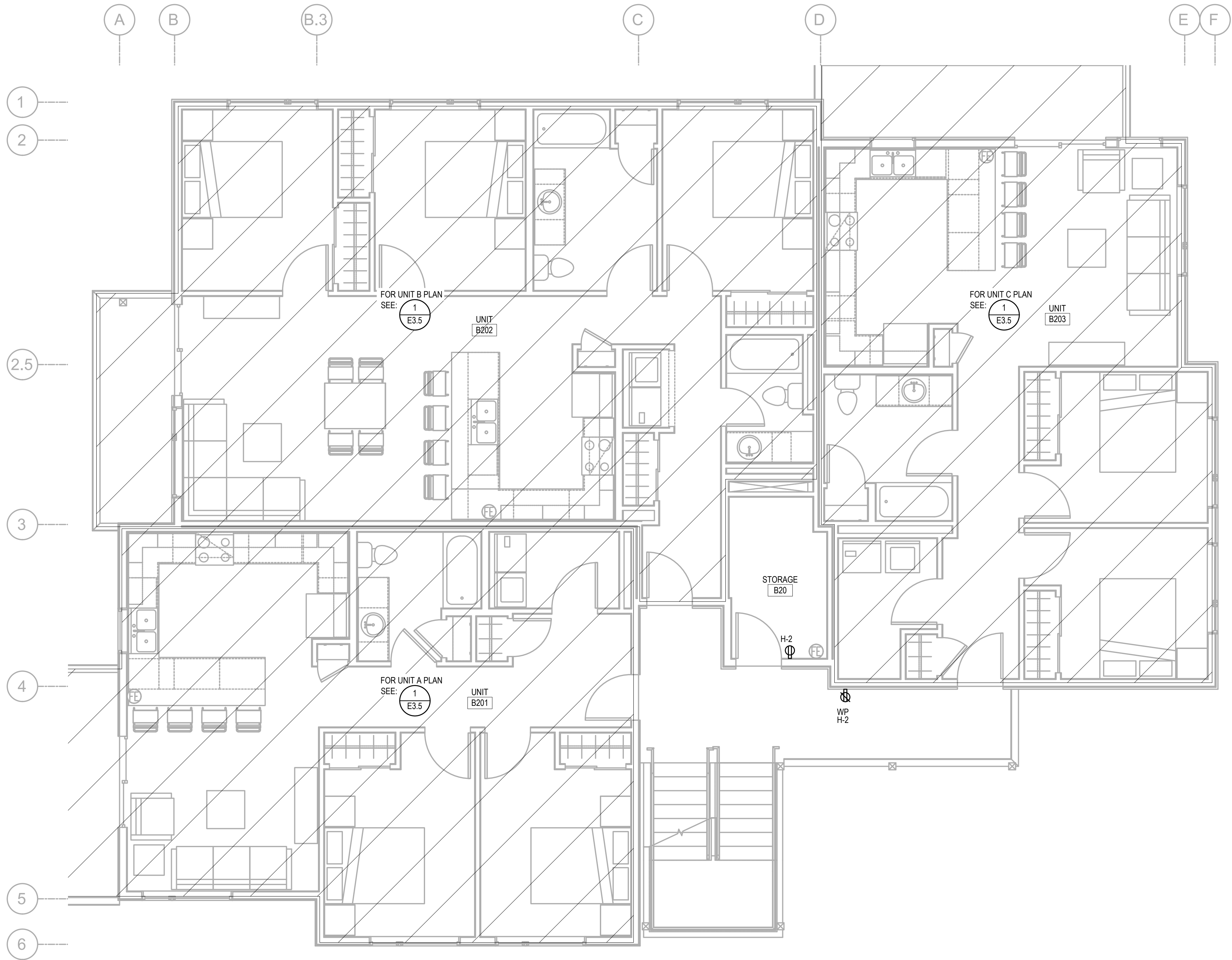
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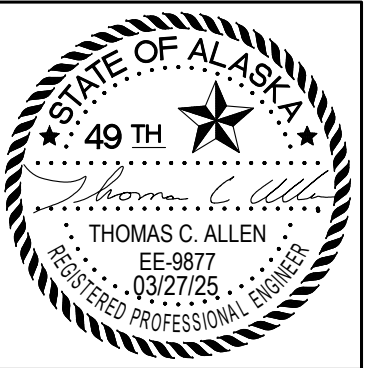
Sheet Contents
BUILDING B & C
FIRST FLOOR
POWER PLAN

Drawing No.
E3.5
13 of 16E
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0"
1"



1 **BUILDING B & C - SECOND & THIRD FLOOR POWER PLAN**
SCALE: 1/4" = 1'-0"



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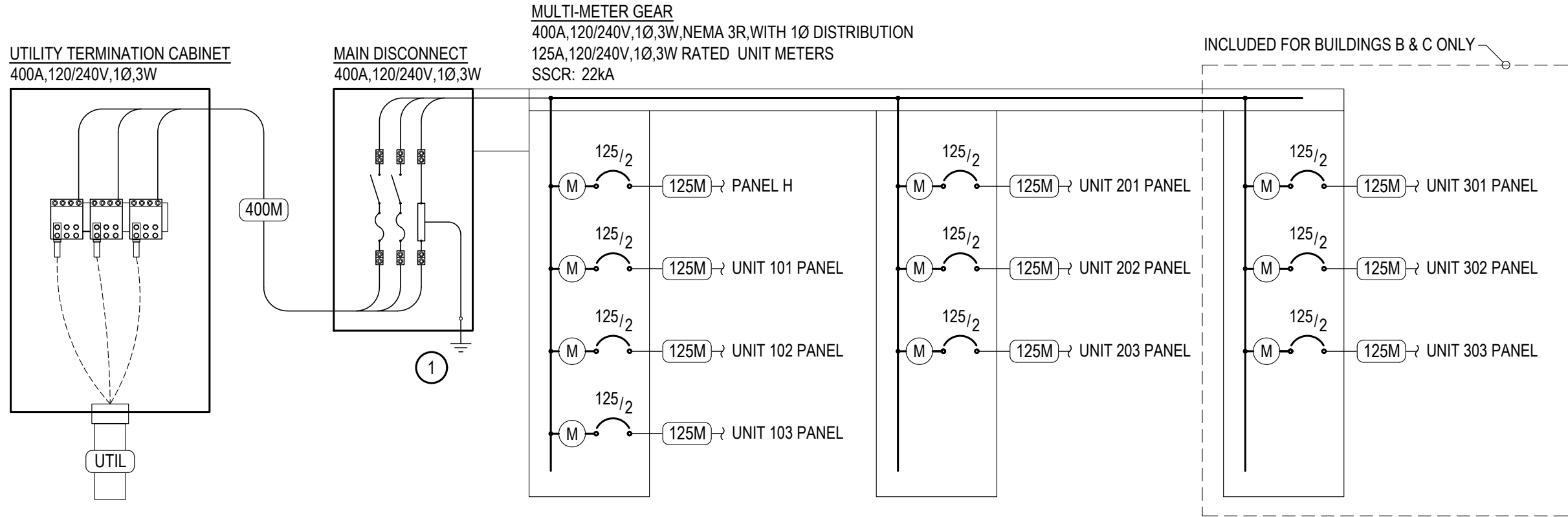
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Sheet Contents
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SECOND & THIRD FLOOR
POWER PLAN

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E3.6
14 of 16E
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0"
1"



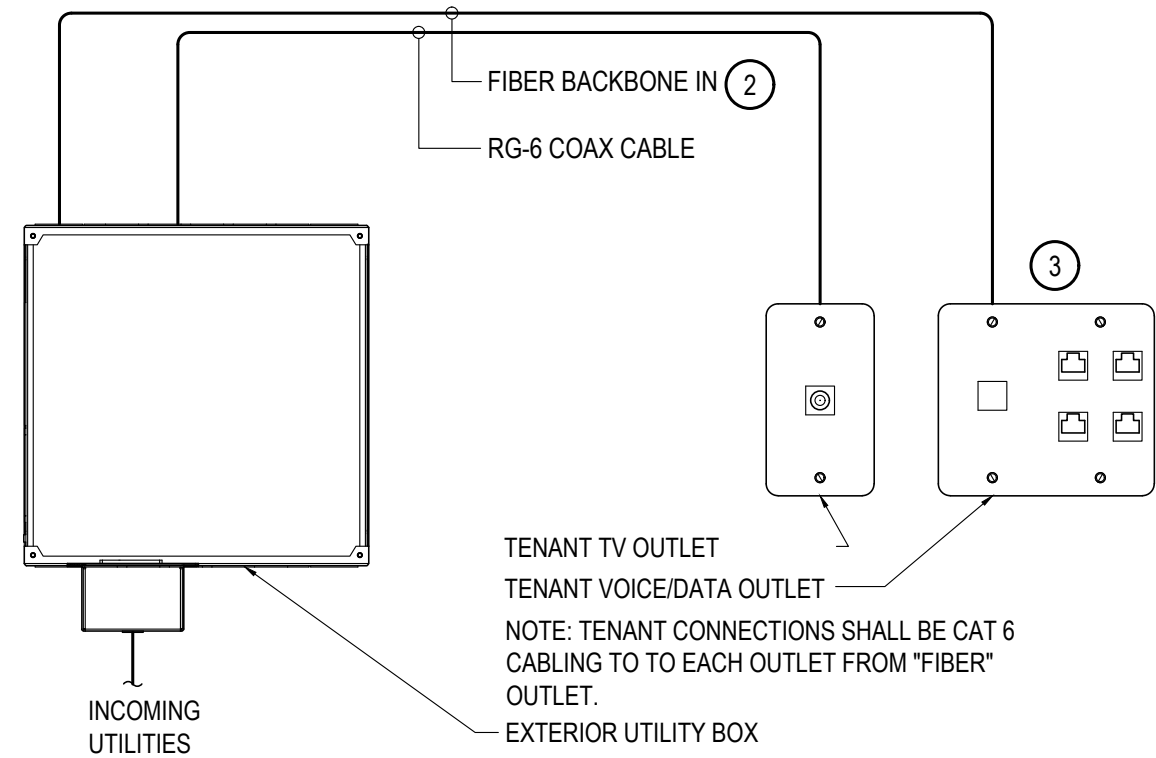
GENERAL NOTES

- IMMEDIATELY UPON PROJECT INCEPTION THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY FOR THE INSTALLATION OF A NEW ELECTRICAL SERVICE. EQUIPMENT LAYOUT AS SHOWN IS DIAGRAMMATIC. THE CONTRACTOR SHALL SUBMIT DETAILED INFORMATION REGARDING THE PROPOSED SERVICE ENTRANCE EQUIPMENT TO THE UTILITY COMPANY AND OWNER/ARCHITECT FOR APPROVAL PRIOR TO ORDERING ANY EQUIPMENT. ALL EQUIPMENT AND INSTALLATION SHALL COMPLY WITH CEA STANDARDS AND THE LATEST ADOPTED NEC.
- METERS AND DISCONNECTS SHALL BE LABELED WITH ENGRAVED PLACARDS, IDENTIFYING EACH TENANT WITH THE ADDRESS OR OTHER MEANS AND BUSSED TERMINATION ENCLOSURES SHALL HAVE PROVISIONS TO BE SEALED. EXTERIOR EQUIPMENT WILL BE PROVIDED IN NEMA 3R ENCLOSURES. COORDINATE EXACT UNIT DESIGNATION WITH OWNER.

SHEET NOTES

- PROVIDE GROUNDING ELECTRODE SYSTEM AS FOLLOW: #2 CU. TO WATER MAIN, #2 CU. TO BUILDING STEEL, 20' OF #2 CU. ENCASED IN FOOTING CONCRETE AND BONDED TO REBAR. AND #4 CU. TO DRIVEN ROD ELECTRODE.

INDICATED BY: ②



DETAIL NOTES

- PROVIDE COMPLETE CABLING, CONNECTIONS AND LABELING IN COMPLIANCE WITH EIA/TAI RECOMMENDATIONS FOR RESIDENTIAL INSTALLATIONS AND IN COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
- PROVIDE ESSEX W32002xBB - 2 STRAND FIBER CABLE FROM UTILITY TO EACH UNIT "DEMARC" OUTLET. COORDINATE DEMARC LOCATION WITH CIHA PRIOR TO ROUGH-IN.
- PROVIDE 2 GANG BOX WITH FIBER OUTLET AND 4 CAT 6 OUTLETS. FROM UNIT DEMARC OUTLET PROVIDE CAT 6 CABLING FROM JACK TO OTHER OUTLETS IN THE UNIT.

STRUCTURED MEDIA ENCLOSURE AND CABLING DETAIL

SCALE: NTS

1 ELECTRICAL SINGLE LINE DIAGRAM

SCALE: NTS

FAULT CURRENT CALCULATION SUMMARY - BLDG A			ASSUMED UTILITY CONFIGURATION	
			UTILITY CONTRIBUTION:	INFINITE
			TRANSFORMER RATING:	50 kVA
			TRANSFORMER IMPEDENCE:	1.2%Z
EQUIPMENT	SUPPLY FEEDER RATING AND LENGTH	FAULT CURRENT L-L	FAULT CURRENT L-N	MIN BUS RATING
UTILITY TRANS SECONDARY	N/A	19,290 A	N/A	N/A
UTILITY TERMINATION CABINET (WORST CASE)	2 EA. #250 AL PER PHASE 40'	15,433 A	16,695 A	22,000 A
MAIN DISCONNECT/MAIN GEAR	2 EA. #3/0 CU PER PHASE 5'	15,056 A	14,464 A	22,000 A
PANEL H	1 EA. #1 CU PER PHASE 50'	8,094 A	4,234 A	10,000 A
TENANT PANEL - UNIT 101	1 EA. #1 CU PER PHASE 30'	9,931 A	5,968 A	14,000 A
TENANT PANEL - UNIT 102	1 EA. #1 CU PER PHASE 40'	8,919 A	4,954 A	10,000 A
TENANT PANEL - UNIT 103	1 EA. #1 CU PER PHASE 55'	7,736 A	3,948 A	10,000 A
TENANT PANEL - UNIT 201	1 EA. #1 CU PER PHASE 40'	8,919 A	4,954 A	10,000 A
TENANT PANEL - UNIT 202	1 EA. #1 CU PER PHASE 50'	8,094 A	4,234 A	10,000 A
TENANT PANEL - UNIT 203	1 EA. #1 CU PER PHASE 65'	7,108 A	3,477 A	10,000 A
CONTRACTOR TO CONFIRM UTILITY ASSUMPTIONS UTILIZED FOR THIS CALCULATION AS WELL AS INSTALLED CONDUCTOR CONFIGURATIONS AND LENGTHS DURING CONSTRUCTION. REPORT ANY DECREASE IN TRANSFORMER IMPEDENCE AND INSTALLED CABLE LENGTHS AS WELL AS ANY INCREASE IN TRANSFORMER KVA RATING AND CONDUCTOR RATINGS TO ENGINEER FOR RE-EVALUATION PRIOR TO DISTRIBUTION EQUIPMENT PROCUREMENT.				

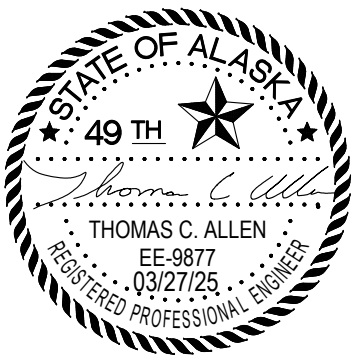
FAULT CURRENT CALCULATION SUMMARY - BLDG B				ASSUMED UTILITY CONFIGURATION		
				UTILITY CONTRIBUTION: INFINITE		
				TRANSFORMER RATING: 50 KVA		
				TRANSFORMER IMPEDENCE: 1.2%		
EQUIPMENT	SUPPLY FEEDER RATING AND LENGTH		FAULT CURRENT L-L	FAULT CURRENT L-N	MIN BUS RATING	
UTILITY TRANS SECONDARY	N/A		19,290 A	N/A	N/A	
UTILITY TERMINATION CABINET (WORST CASE)	2 EA. #250 AL PER PHASE	40'	15,433 A	16,695 A	22,000 A	
MAIN DISCONNECT/MAIN GEAR	2 EA. #3/0 CU PER PHASE	5'	15,056 A	14,464 A	22,000 A	
PANEL H	1 EA. #1 CU PER PHASE	50'	8,094 A	4,234 A	10,000 A	
TENANT PANEL - UNIT 101	1 EA. #1 CU PER PHASE	30'	9,931 A	5,968 A	14,000 A	
TENANT PANEL - UNIT 102	1 EA. #1 CU PER PHASE	40'	8,919 A	4,954 A	10,000 A	
TENANT PANEL - UNIT 103	1 EA. #1 CU PER PHASE	55'	7,736 A	3,948 A	10,000 A	
TENANT PANEL - UNIT 201	1 EA. #1 CU PER PHASE	40'	8,919 A	4,954 A	10,000 A	
TENANT PANEL - UNIT 202	1 EA. #1 CU PER PHASE	50'	8,094 A	4,234 A	10,000 A	
TENANT PANEL - UNIT 203	1 EA. #1 CU PER PHASE	65'	7,108 A	3,477 A	10,000 A	
TENANT PANEL - UNIT 301	1 EA. #1 CU PER PHASE	50'	8,094 A	4,234 A	10,000 A	
TENANT PANEL - UNIT 302	1 EA. #1 CU PER PHASE	60'	7,409 A	3,697 A	10,000 A	
TENANT PANEL - UNIT 303	1 EA. #1 CU PER PHASE	75'	6,574 A	3,106 A	10,000 A	
CONTRACTOR TO CONFIRM UTILITY ASSUMPTIONS UTILIZED FOR THIS CALCULATION AS WELL AS INSTALLED CONDUCTOR CONFIGURATIONS AND LENGTHS DURING CONSTRUCTION. REPORT ANY DECREASE IN TRANSFORMER IMPEDENCE AND INSTALLED CABLE LENGTHS AS WELL AS ANY INCREASE IN TRANSFORMER KVA RATING AND CONDUCTOR RATINGS TO ENGINEER FOR RE-EVALUATION PRIOR TO DISTRIBUTION EQUIPMENT PROCUREMENT.						

FAULT CURRENT CALCULATION SUMMARY - BLDG C				ASSUMED UTILITY CONFIGURATION		
				UTILITY CONTRIBUTION: INFINITE		
				TRANSFORMER RATING: 50 KVA		
				TRANSFORMER IMPEDENCE: 1.2%Z		
EQUIPMENT	SUPPLY FEEDER RATING AND LENGTH		FAULT CURRENT L-L	FAULT CURRENT L-N	MIN BUS RATING	
UTILITY TRANS SECONDARY	N/A		19,290 A	N/A	N/A	
UTILITY TERMINATION CABINET (WORST CASE)	2 EA. #250 AL PER PHASE	40'	15,433 A	16,695 A	22,000 A	
MAIN DISCONNECT/MAIN GEAR	2 EA. #3/0 CU PER PHASE	5'	15,056 A	14,464 A	22,000 A	
PANEL H	1 EA. #1 CU PER PHASE	50'	8,094 A	4,234 A	10,000 A	
TENANT PANEL - UNIT 101	1 EA. #1 CU PER PHASE	30'	9,931 A	5,968 A	14,000 A	
TENANT PANEL - UNIT 102	1 EA. #1 CU PER PHASE	40'	8,919 A	4,954 A	10,000 A	
TENANT PANEL - UNIT 103	1 EA. #1 CU PER PHASE	55'	7,736 A	3,948 A	10,000 A	
TENANT PANEL - UNIT 201	1 EA. #1 CU PER PHASE	40'	8,919 A	4,954 A	10,000 A	
TENANT PANEL - UNIT 202	1 EA. #1 CU PER PHASE	50'	8,094 A	4,234 A	10,000 A	
TENANT PANEL - UNIT 203	1 EA. #1 CU PER PHASE	65'	7,108 A	3,477 A	10,000 A	
TENANT PANEL - UNIT 301	1 EA. #1 CU PER PHASE	50'	8,094 A	4,234 A	10,000 A	
TENANT PANEL - UNIT 302	1 EA. #1 CU PER PHASE	60'	7,409 A	3,697 A	10,000 A	
TENANT PANEL - UNIT 303	1 EA. #1 CU PER PHASE	75'	6,574 A	3,106 A	10,000 A	
CONTRACTOR TO CONFIRM UTILITY ASSUMPTIONS UTILIZED FOR THIS CALCULATION AS WELL AS INSTALLED CONDUCTOR CONFIGURATIONS AND LENGTHS DURING CONSTRUCTION. REPORT ANY DECREASE IN TRANSFORMER IMPEDENCE AND INSTALLED CABLE LENGTHS AS WELL AS ANY INCREASE IN TRANSFORMER KVA RATING AND CONDUCTOR RATINGS TO ENGINEER FOR RE-EVALUATION PRIOR TO DISTRIBUTION EQUIPMENT PROCUREMENT.						

FEEDER SCHEDULE					
FEEDER TAG	COPPER CONDUCTORS		ALUMINUM CONDUCTORS		
	CONDUCTORS	RACEWAY	CONDUCTORS	RACEWAY	NOTES
125M	3#1, 1#6 EGC	1.25"	3#1/0, 1#6 EGC	2"	
400M	2 x 3#3/0, 1#3 EGC	2 x 2"	2 x 3#250, 1#1 EGC	2 x 3"	
UTIL	CONDUIT ONLY		CONDUIT ONLY		
NOTES: 1. ALUMINUM FEEDERS MAY BE UTILIZED ONLY WITH PRIOR APPROVAL FROM OWNER / PROJECT MANAGER.					

ELECTRICAL SERVICE LOAD CALCULATION - BUILDING A			
GENERAL LIGHTING DEMAND LOAD (NEC 220.42)			
GENERAL LIGHTING (TOTAL TENANT AREA)			
5,724 FT ² @ 3 VA/FT ²	=	17,172 VA	
SMALL APPLIANCE LOAD			
12 CKTS @ 1,500 VA/CKT	=	18,000 VA	
LAUNDRY LOAD			
6 CKTS @ 1,500 VA/CKT	=	9,000 VA	
SUB-TOTAL		44,172 VA	
FIRST 3000 VA OR LESS AT 100%	=	3,000 VA	
FROM 3001 TO 120,000 VA AT 35%	=	14,410 VA	
REMAINDER OVER 120,000 VA AT 25%	=	0 VA	
TOTAL GENERAL LIGHTING DEMAND LOAD	=	17,410 VA	
ELECTRIC CLOTHES DRYER DEMAND LOAD (NEC 220.54)			
6 @ 5,600 VA EACH	=	33,600 VA	
DEMAND FACTOR PER NEC T220.54	=	75%	
TOTAL DRYER DEMAND LOAD	=	25,200 VA	
ELECTRIC RANGE DEMAND LOAD (NEC 220.55)			
6 @ 9,100 VA EACH	=	54,600 VA	
DEMAND FACTOR PER NEC T220.55	=	21%	
TOTAL RANGE DEMAND LOAD	=	11,466 VA	
APPLIANCE DEMAND LOAD (NEC 220.54)			
DISHWASHERS 6 @ 1,080 VA EACH	=	6,480 VA	
RANGE HOODS 6 @ 168 VA EACH	=	1,008 VA	
DEMAND FACTOR PER NEC 220.53	=	75%	
TOTAL FIXED APPLIANCE DEMAND LOAD	=	5,616 VA	
HOUSE LOAD (PANEL H)	=	7,631 VA	
TOTAL CALCULATED ELECTRICAL DEMAND LOAD			
		67,323 VA	
		281 AMPS @120/240v,1PH	

ELECTRICAL SERVICE LOAD CALCULATION - BUILDINGS B & C			
GENERAL LIGHTING DEMAND LOAD (NEC 220.42)			
GENERAL LIGHTING (TOTAL TENANT AREA)			
8,586 FT ² @ 3 VA/FT ²	=	25,758 VA	
SMALL APPLIANCE LOAD			
18 CKTS @ 1,500 VA/CKT	=	27,000 VA	
LAUNDRY LOAD			
9 CKTS @ 1,500 VA/CKT	=	13,500 VA	
SUB-TOTAL		66,258 VA	
FIRST 3000 VA OR LESS AT 100%	=	3,000 VA	
FROM 3001 TO 120,000 VA AT 35%	=	22,140 VA	
REMAINDER OVER 120,000 VA AT 25%	=	0 VA	
TOTAL GENERAL LIGHTING DEMAND LOAD	=	25,140 VA	
ELECTRIC CLOTHES DRYER DEMAND LOAD (NEC 220.54)			
9 @ 5,600 VA EACH	=	50,400 VA	
DEMAND FACTOR PER NEC T220.54	=	55%	
TOTAL DRYER DEMAND LOAD	=	27,720 VA	
ELECTRIC RANGE DEMAND LOAD (NEC 220.55)			
9 @ 9,100 VA EACH	=	81,900 VA	
DEMAND FACTOR PER NEC T220.55	=	25%	
TOTAL RANGE DEMAND LOAD	=	20,475 VA	
APPLIANCE DEMAND LOAD (NEC 220.54)			
DISHWASHERS 9 @ 1,080 VA EACH	=	9,720 VA	
RANGE HOODS 9 @ 168 VA EACH	=	1,512 VA	
DEMAND FACTOR PER NEC 220.53	=	75%	
TOTAL FIXED APPLIANCE DEMAND LOAD	=	8,424 VA	
HOUSE LOAD (PANEL H)	=	4,961 VA	
TOTAL CALCULATED ELECTRICAL DEMAND LOAD			
		86,720 VA	
		361 AMPS @120/240v,1PH	



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BAXTER FAMILY HOUSING

ANCHORAGE, ALASKA

Revision Schedule		
No.	Description	Date

Drawn:	MJM
Reviewed:	TCA
Date:	2025-03-27
Job No:	2025.017.0

Sheet Contents
ELECTRICAL SINGLE LINE DIAGRAM

Drawing No.

E4.1
15 of 16E

PERMIT DRAWINGS

Half Indicated Scale When Printed at 11x17

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0"

1"

PANEL H (BUILDING A)				VOLTAGE : 120/240V,1PH,3W		AMPRERE RATING: 125 A	
				MOUNTING: SURFACE		MAIN CIRCUIT BREAKER RATING: MLO	
				SUPPLIED FROM: MULTI-METER DISC.		SHORT CIRCUIT CURRENT RATING: 10,000 A	
CKT	AMP	POLE	LOAD DESCRIPTION	PHASE A VA	PHASE B VA	LOAD DESCRIPTION	POLE AMP CKT
1	20	1	REC - STORAGE & CONVENIENCE	540	720	REC - OFFICE	1 20 2
3	20	1	REC - UTILITY, HALL, SPRINKLER RM		540	REC - COFFEE	1 20 4
5	20	1	REC - UTILITY, CRAWLSPACES	540	180	REC - TOILET	1 20 6
7	20	1	REC - UNIT WALKWAYS & UNIT STORAGE		720	LTG - HOUSE SPACE	1 20 8
9	20	1	B-1	540	180	WSP-1, HWSP-1	1 20 10
11	20	1	BSP-1, BPP-1		516	LTG - SITE	1 20 12
13	20	1	EF-1, UH-1	500		SPARE	1 20 14
15	20	1	SPARE			SPARE	1 20 16
17	20	1	SPARE			SPARE	1 - 18
19	-	1	SPACE			SPACE	1 - 20
21	-	1	SPACE			SPACE	1 - 22
23	-	1	SPACE			SPACE	1 - 24
25	-	1	SPACE			SPACE	1 - 26
27	-	1	SPACE			SPACE	1 - 28
29	-	1	SPACE			SPACE	1 - 30
31	-	1	SPACE			SPACE	1 - 32
33	-	1	SPACE			SPACE	1 - 34
35	-	1	SPACE			SPACE	1 - 36
37	-	1	SPACE			SPACE	1 - 38
39	-	1	SPACE			TVSS	30 40
41	-	1	SPACE				2
CONNECTED LOAD (VA)				3,200	4,431	7,631 VA	
CONNECTED LOAD (AMPERES)				27	37	32 A	
DEMAND LOAD (VA) *				3,200	4,431	7,631 VA	
DEMAND LOAD (AMPERES) *				27	37	32 A	

GF - PROVIDE CLASS A GFI TYPE CIRCUIT BREAKER (5mA), GP - PROVIDE CLASS B EPD TYPE CIRCUIT BREAKER (30mA), SH - PROVIDE SHUNT TRIP TYPE CIRCUIT BREAKER
*- DEMAND LOAD CALCULATED WITH LIGHTING & LARGEST MOTOR LOAD AT 125%

PANEL H (BUILDINGS B & C)				VOLTAGE : 120/240V,1PH,3W		AMPRERE RATING: 125 A	
				MOUNTING: SURFACE		MAIN CIRCUIT BREAKER RATING: MLO	
				SUPPLIED FROM: MULTI-METER DISC.		SHORT CIRCUIT CURRENT RATING: 10,000 A	
CKT	AMP	POLE	LOAD DESCRIPTION	PHASE A VA	PHASE B VA	LOAD DESCRIPTION	POLE AMP CKT
1	20	1	REC - STORAGE & CONVENIENCE	540	1,080	REC - UNIT WALKWAYS & UNIT STORAGE	1 20 2
3	20	1	REC - UTILITY, HALL, SPRINKLER RM		540	LTG - HOUSE SPACE	1 20 4
5	20	1	REC - UTILITY, CRAWLSPACES	540	180	WSP-1, HWCP-1	1 20 6
7	20	1	B-1		540	EF-1, UH-1	1 20 8
9	20	1	BSP-1, BPP-1	516		SPARE	1 20 10
11	20	1	SPARE			SPARE	1 20 12
13	20	1	SPARE			SPACE	1 - 14
15	-	1	SPACE			SPACE	1 - 16
17	-	1	SPACE			SPACE	1 - 18
19	-	1	SPACE			SPACE	1 - 20
21	-	1	SPACE			SPACE	1 - 22
23	-	1	SPACE			SPACE	1 - 24
25	-	1	SPACE			SPACE	1 - 26
27	-	1	SPACE			SPACE	1 - 28
29	-	1	SPACE			SPACE	1 - 30
31	-	1	SPACE			SPACE	1 - 32
33	-	1	SPACE			SPACE	1 - 34
35	-	1	SPACE			SPACE	1 - 36
37	-	1	SPACE			SPACE	1 - 38
39	-	1	SPACE				30 40
41	-	1	SPACE			TVSS	2
CONNECTED LOAD (VA)				2,856	2,105	4,961 VA	
CONNECTED LOAD (AMPERES)				24	18	21 A	
DEMAND LOAD (VA) *				2,856	2,105	4,961 VA	
DEMAND LOAD (AMPERES) *				24	18	21 A	

GF - PROVIDE CLASS A GFI TYPE CIRCUIT BREAKER (5mA), GP - PROVIDE CLASS B EPD TYPE CIRCUIT BREAKER (30mA), SH - PROVIDE SHUNT TRIP TYPE CIRCUIT BREAKER
*- DEMAND LOAD CALCULATED WITH LIGHTING & LARGEST MOTOR LOAD AT 125%

LIGHTING FIXTURE SCHEDULE						
TYPE ID	MANUFACTURER MODEL NUMBER	FIXTURE DESCRIPTION	LAMP		LED	
			TYPE	QTY	LUMENS	WATTS
A	JUNO LIGHTING #JSF-7IN 10LM-30K-90CRI-MVOLT-WH	SLIM FORM SURFACE MOUNT WITH 7" DIAMETER, 3000K COLOR TEMPERATURE, AND WHITE FINISH.	LED		1,000	13
					78 lm/w	
B	JUNO LIGHTING #JSF-13IN 18LM-30K-90CRI-MVOLT-WH	SLIM FORM SURFACE MOUNT WITH 13" DIAMETER, 3000K COLOR TEMPERATURE, AND WHITE FINISH.	LED		1,800	20
					90 lm/w	
C	LITHONIA LIGHTING #CPANL-1X4-AL01-SWW7-M4 #DCMK-14	1'X4' FLAT PANEL LED WITH SWITCHABLE LUMEN OUTPUT, SWITCHABLE COLOR TEMPERATURE, & DIRECT SURFACE CEILING MOUNT KIT.	LED		4,400 MAX	41 MAX
					107 lm/w	
D	TECH LIGHTING #700BCBAS-24-S-LED927	24" WIDE VANITY FIXTURE WITH BRUSHED NICKEL FINISH AND SATIN ETCHED WHITE SHADES.	LED		1,052	24
					44 lm/w	
E	LITHONIA LIGHTING #OLLWD-LED-P1-40K-MVOLT-DDB	LED WALL-MOUNTED GENERAL PURPOSE LIGHT WITH 4000K COLOR TEMPERATURE, WITH VARIABLE INPUT VOLTAGE, AND DARK BRONZE FINISH.	LED		533	9
					59 lm/w	
F	LITHONIA #ZL1N-L48-SMR-3000LM-FST-MVOLT-40K-80CRI-WH	4' LINEAR STRIPLIGHT WITH 4000K COLOR TEMPERATURE AND WHITE FINISH.	LED		3,293	25
					132 lm/w	
G	JUNO LIGHTING #DPEND-MP-G2-P314-GLAC #78IN-LED12-30K-80CRI-SNC	CYLINDRICAL PENDANT WITH 'GLACIER' FINISH, SATIN NICKEL 78" CORDSET, SATIN NICKEL MONOPOINT ADAPTER, AND 3000K COLOR TEMPERATURE.	LED		389	6
					65 lm/w	
S1	LITHONIA LIGHTING #DSX0-LED-P3-40K-T3M-MVOLT-SPA-DBLXD #SSS-30-4G-DM19AS-DBLXD	POLE MOUNTED AREA LUMINAIRE WITH 4000K COLOR TEMPERATURE WITH TYPE 3 MEDIUM DISTRIBUTION AND BLACK FINISH. INCLUDE 30' MATCHING SQUARE STEEL POLE AS SPECIFIED.	LED		8,452	71
					119 lm/w	

TYPICAL UNIT PANEL A				VOLTAGE : 120/240V,1PH,3W		AMPRERE RATING: A	
				MOUNTING: SURFACE		MAIN CIRCUIT BREAKER RATING: MLO	
				SUPPLIED FROM:		SHORT CIRCUIT CURRENT RATING: A	
CKT	AMP	POLE	LOAD DESCRIPTION	PHASE A VA	PHASE B VA	LOAD DESCRIPTION	POLE AMP CKT
1	50		RANGE			DRYER	30 2
3		2	AAAAAAAAA			AAAAAAAAA	2 4
5	20	1	REC - KITCHEN ABOVE COUNTER	1,500	1,200	REC - WASHER	1 20 6
7	20	1	REC - KITCHEN ABOVE COUNTER & DISHWASHER		1,500	REC - CONVENIENCE	1 20 8
9	20	1	REC - LIVING & DECK	720	900	REC - BEDROOM 1	1 20 10
11	20	1	LTG - UNIT A		263	REC - BEDROOM 2	1 20 12
13	20	1	SPARE		600	REC - BATHROOM	1 20 14
15	20	1	SPARE			SPARE	1 20 16
17	20	1	SPARE			SPARE	1 20 18
19	-	1	SPACE			SPACE	1 - 20
21	-	1	SPACE			SPACE	1 - 22
23	-	1	SPACE			SPACE	1 - 24
25	-	1	SPACE			SPACE	1 - 26
27	-	1	SPACE			SPACE	1 - 28
29	-	1	SPACE			SPACE	1 - 30
31	-	1	SPACE			SPACE	1 - 32
CONNECTED LOAD (VA)				4,920	3,023	7,943 VA	
CONNECTED LOAD (AMPERES)				41	25	33 A	
DEMAND LOAD (VA) *				4,920	3,023	7,943 VA	
DEMAND LOAD (AMPERES) *				41	25	33 A	

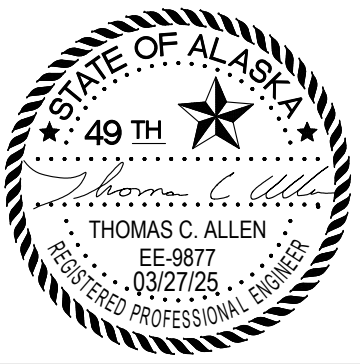
E - EXISTING CIRCUIT BREAKER & LOAD TO REMAIN, R - RECONFIGURED LOAD ON EXISTING CIRCUIT BREAKER, N - NEW CIRCUIT BREAKER & LOAD, S - NEW SPARE AS A RESULT OF THIS PROJECT
GF - PROVIDE CLASS A GFI TYPE CIRCUIT BREAKER (5mA), GP - PROVIDE CLASS B EPD TYPE CIRCUIT BREAKER (30mA), SH - PROVIDE SHUNT TRIP TYPE CIRCUIT BREAKER
*- DEMAND LOAD CALCULATED WITH LIGHTING & LARGEST MOTOR LOAD AT 125%

TYPICAL UNIT PANEL B				VOLTAGE : 120/240V,1PH,3W		AMPRERE RATING: A	
				MOUNTING: SURFACE		MAIN CIRCUIT BREAKER RATING: MLO	
				SUPPLIED FROM:		SHORT CIRCUIT CURRENT RATING: A	
CKT	AMP	POLE	LOAD DESCRIPTION	PHASE A VA	PHASE B VA	LOAD DESCRIPTION	POLE AMP CKT
1	50		RANGE			DRYER	30 2
3		2	AAAAAAAAA			AAAAAAAAA	2 4
5	20	1	REC - KITCHEN ABOVE COUNTER	1,500	1,200	REC - WASHER	1 20 6
7	20	1	REC - KITCHEN ABOVE COUNTER & DISHWASHER		1,500	REC - CONVENIENCE	1 20 8
9	20	1	REC - LIVING & DECK	900	1,200	REC - BATHROOMS	1 20 10
11	20	1	REC - BEDROOM 1		900	REC - BEDROOM 3	1 20 12
13	20	1	LTG - UNIT B	306	900	REC - BEDROOM 2	1 20 14
15	20	1	SPARE			SPARE	1 20 16
17	20	1	SPARE			SPARE	1 20 18
19	-	1	SPACE			SPACE	1 - 20
21	-	1	SPACE			SPACE	1 - 22
23	-	1	SPACE			SPACE	1 - 24
25	-	1	SPACE			SPACE	1 - 26
27	-	1	SPACE			SPACE	1 - 28
29	-	1	SPACE			SPACE	1 - 30
31	-	1	SPACE			SPACE	1 - 32
CONNECTED LOAD (VA)				6,006	3,660	9,666 VA	
CONNECTED LOAD (AMPERES)				50	31	40 A	
DEMAND LOAD (VA) *				6,006	3,660	9,666 VA	
DEMAND LOAD (AMPERES) *				50	31	40 A	

E - EXISTING CIRCUIT BREAKER & LOAD TO REMAIN, R - RECONFIGURED LOAD ON EXISTING CIRCUIT BREAKER, N - NEW CIRCUIT BREAKER & LOAD, S - NEW SPARE AS A RESULT OF THIS PROJECT
GF - PROVIDE CLASS A GFI TYPE CIRCUIT BREAKER (5mA), GP - PROVIDE CLASS B EPD TYPE CIRCUIT BREAKER (30mA), SH - PROVIDE SHUNT TRIP TYPE CIRCUIT BREAKER
*- DEMAND LOAD CALCULATED WITH LIGHTING & LARGEST MOTOR LOAD AT 125%

TYPICAL UNIT PANEL C				VOLTAGE : 120/240V,1PH,3W		AMPRERE RATING: A	
				MOUNTING: SURFACE		MAIN CIRCUIT BREAKER RATING: MLO	
				SUPPLIED FROM:		SHORT CIRCUIT CURRENT RATING: A	
CKT	AMP	POLE	LOAD DESCRIPTION	PHASE A VA	PHASE B VA	LOAD DESCRIPTION	POLE AMP CKT
1	50		RANGE			DRYER	30 2
3		2	AAAAAAAAA			AAAAAAAAA	2 4
5	20	1	REC - KITCHEN ABOVE COUNTER	1,500	1,200	REC - WASHER	1 20 6
7	20	1	REC - KITCHEN ABOVE COUNTER & DISHWASHER		1,500	REC - CONVENIENCE	1 20 8
9	20	1	REC - LIVING & DECK	720	900	REC - BEDROOM 1	1 20 10
11	20	1	LTG - UNIT C		263	REC - BEDROOM 2	1 20 12
13	20	1	SPARE		600	REC - BATHROOM	1 20 14
15	20	1	SPARE			SPARE	1 20 16
17	20	1	SPARE			SPARE	1 20 18
19	-	1	SPACE			SPACE	1 - 20
21	-	1	SPACE			SPACE	1 - 22
23	-	1	SPACE			SPACE	1 - 24
25	-	1	SPACE			SPACE	1 - 26
27	-	1	SPACE			SPACE	1 - 28
29	-	1	SPACE			SPACE	1 - 30
31	-	1	SPACE			SPACE	1 - 32
CONNECTED LOAD (VA)				4,920	3,023	7,943 VA	
CONNECTED LOAD (AMPERES)				41	25	33 A	
DEMAND LOAD (VA) *				4,920	3,023	7,943 VA	
DEMAND LOAD (AMPERES) *				41	25	33 A	

E - EXISTING CIRCUIT BREAKER & LOAD TO REMAIN, R - RECONFIGURED LOAD ON EXISTING CIRCUIT BREAKER, N - NEW CIRCUIT BREAKER & LOAD, S - NEW SPARE AS A RESULT OF THIS PROJECT
GF - PROVIDE CLASS A GFI TYPE CIRCUIT BREAKER (5mA), GP - PROVIDE CLASS B EPD TYPE CIRCUIT BREAKER (30mA), SH - PROVIDE SHUNT TRIP TYPE CIRCUIT BREAKER
*- DEMAND LOAD CALCULATED WITH LIGHTING & LARGEST MOTOR LOAD AT 125%



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BAXTER FAMILY HOUSING

ANCHORAGE, ALASKA

Revision Schedule		
No.	Description	Date

Drawn:	MJM
Reviewed:	TCA
Date:	2025-03-27
Job No:	2025.017.0