

ELECTRICAL LEGEND - LIGHTING

	DOUBLE FACE EXIT SIGN, CEILING MOUNTED. PROVIDE UNSWITCHED CONDUCTOR.
	WALL MOUNTED DOUBLE FACE EXIT SIGN PROVIDE UNSWITCHED CONDUCTOR. MOUNT AT +8'-0" UNO.
	SINGLE FACE EXIT SIGN, CEILING MOUNTED PROVIDE UNSWITCHED CONDUCTOR.
	WALL MOUNTED SINGLE FACE EXIT SIGN PROVIDE UNSWITCHED CONDUCTOR. MOUNT AT +8'-0" UNO.
	ARROW INDICATES DIRECTION TO BE SHOWN ON SIGN.
	1'X1' LIGHT FIXTURE.
	1'X1' LIGHT FIXTURE, PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.
	TRACK LIGHT
	1'X4' LIGHT FIXTURE.
	1'X4' LIGHT FIXTURE, PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.
	2'X4' LIGHT FIXTURE.
	2'X4' LIGHT FIXTURE, PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.
	2'X2' LIGHT FIXTURE.
	2'X2' LIGHT FIXTURE, PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.
	DIRECT/INDIRECT LIGHT FIXTURE. SEE SCHEDULE FOR LENGTH.
	DIRECT/INDIRECT LIGHT FIXTURE. SEE SCHEDULE FOR LENGTH. PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.
	STRIP LIGHT FIXTURE. SEE SCHEDULE FOR LENGTH.
	STRIP LIGHT FIXTURE. SEE SCHEDULE FOR LENGTH. PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.
	WALL MOUNTED LIGHT FIXTURE.
	WALL MOUNTED LIGHT FIXTURE, PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.
	RECESSED LIGHT FIXTURE
	RECESSED LIGHT FIXTURE. PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.
	ROUND LIGHT FIXTURE
	ROUND EMERGENCY LIGHT FIXTURE. PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.
	WALL MOUNTED LIGHT FIXTURE.
	WALL MOUNTED EMERGENCY LIGHT FIXTURE. PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.
	POLE LIGHT 1 HEAD WITH POLE
	TIME CLOCK
	PHOTO CONTROL CELL LOCATED 12" ABOVE ROOF FACING NORTH.
	OCCUPANCY SENSOR. PROVIDE RELAYS AND POWER PACKS AS REQUIRED.
	LED DRIVER
	EMERGENCY EGRESS LIGHTING WITH OUT FIXTURE HEADS. CONNECT TO AN UNSWITCHED CONDUCTOR.
	EMERGENCY EGRESS LIGHTING. CONNECT TO AN UNSWITCHED CONDUCTOR.
	WALL MOUNTED SINGLE FACE EXIT SIGN WITH EMERGENCY EGRESS LIGHTING. PROVIDE UNSWITCHED CONDUCTOR. MOUNT AT +8'-0" UNO.
	CEILING MOUNTED. SINGLE FACE EXIT SIGN WITH EMERGENCY EGRESS LIGHTING. PROVIDE UNSWITCHED CONDUCTOR.
	CEILING MOUNTED. DOUBLE FACE EXIT SIGN WITH EMERGENCY EGRESS LIGHTING. PROVIDE UNSWITCHED CONDUCTOR.
	INDICATES FIXTURE TYPE. REFER TO FIXTURE SCHEDULE.
	EXTERIOR WALL PACK
	EMERGENCY EXTERIOR WALL PACK. PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.

DEVICES

	SWITCH, TYPE AS INDICATED. +46" AFF
	2 DOUBLE POLE
	3 3-WAY
	4 4-WAY
	K KEYED PILOT LIGHT
	P DIMMER
	HP HORSEPOWER RATED TO THERMAL OVERLOAD
	LV LOW VOLTAGE OCCUPANCY SENSOR
	OS LOW VOLTAGE, MOMENTARY OVERRIDE
	VS VACANCY SENSOR
	a SUPERSRIPT INDICATES LIGHTS TO BE SWITCHED TOGETHER
	SS DUAL LEVEL SWITCHING, INSIDE AND OUTSIDE LAMPS OF FIXTURE TO BE SWITCHED SEPARATELY.
	SS OS DUAL LEVEL SWITCHING WITH OCCUPANCY SENSOR, INSIDE AND OUTSIDE LAMPS OF FIXTURE TO BE SWITCHED SEPARATELY.
	SS OS OCCUPANCY SENSOR WITH MANUAL DIMMING, SET FOR 50% AUTOMATIC ON, AUTOMATIC OFF, WITH MANUAL DIMMING.
	SC SINGLE CONVENIENCE OUTLET, +18" AFF UNO
	SC FLOOR MOUNT SINGLE CONVENIENCE OUTLET
	DC DUPLEX CONVENIENCE OUTLET, +18" AFF UNO
	DC FLOOR MOUNT DUPLEX CONVENIENCE OUTLET
	DC EM EMERGENCY DUPLEX CONVENIENCE OUTLET, +18" AFF UNO
	DC S SWITCHED DUPLEX CONVENIENCE OUTLET, +18" AFF UNO
	DC S FLOOR MOUNTED SWITCHED DUPLEX CONVENIENCE OUTLET
	USB DUPLX CONVENIENCE OUTLET, +18" AFF UNO
	USB FOURPLX CONVENIENCE OUTLET, +18" AFF UNO
	FOURPLX CONVENIENCE OUTLET. +18" AFF UNO
	FOURPLX FLOOR MOUNT FOURPLEX CONVENIENCE OUTLET
	CONNECTION POINT TO EQUIPMENT SPECIFIED. ELECTRICAL CONTRACTOR TO SUPPLY RACEWAY AND CONDUCTORS AND MAKE FINAL CONNECTION TO EQUIPMENT UNDER THIS SECTION. UNO
	FLOOR MOUNTED CONNECTION POINT, SEE NOTE ABOVE FOR REQUIREMENTS
	FLOOR MOUNTED JUNCTION BOX
	JUNCTION BOX
	WB WALL MOUNTED PUSH BUTTON, MOUNT AT SWITCH HEIGHT UNO
	WB HC WALL MOUNTED PUSH BUTTON, HANDICAPPED MOUNT AT SWITCH HEIGHT UNO
	WB WALL MOUNTED PUSH BUTTON, MOUNT AT SWITCH HEIGHT UNO
	MS MOTOR STARTER/CONTACTOR, SIZE/POLES NEMA 1 UNO AS INDICATED
	MS D COMBINATION STARTER AND DISCONNECT, SIZE/POLES, STARTER SIZE AS INDICATED, NEMA 1 UNO
	FD FUSED DISCONNECT SWITCH, SIZE/POLES, FUSE SIZES AS INDICATED, NEMA 1 UNO
	NFD NON-FUSED DISCONNECT SIZE/POLES AS INDICATED, NEMA 1 UNO
	T THERMOSTAT, +46" AFF PROVIDE CONDUIT, J-BOX, CONDUCTORS AS REQUIRED TO CONTROL ASSOCIATED UNITS. UNO COORDINATE WITH DIVISION 15.
	HUMIDISTAT, +46" AFF PROVIDE CONDUIT, J-BOX, CONDUCTORS AS REQUIRED TO CONTROL ASSOCIATED UNITS.
	PP POWER POLE - DUAL CHANNEL
	REB RECESSED ENTERTAINMENT BOX
	T TRANSFORMER
	PB PANELBOARD. SEE SCHEDULE FOR TYPE.
	EC EQUIPMENT CABINET, SURFACE MOUNTED
	EC FM EQUIPMENT CABINET FLUSH MOUNTED
	SMR SURFACE MULTI-OUTLET RACEWAY
	M# MECHANICAL EQUIPMENT CALL OUT
	K# KITCHEN EQUIPMENT CALLOUT

ONE LINE

	DELTA WYE TRANSFORMER UNO
	PANEL BOARD, SEE SCHEDULE FOR TYPE AND SIZE
	CIRCUIT BREAKER, SIZE AND POLES INDICATED
	FUSE, SIZE AND TYPE INDICATED, PROVIDE FUSE FOR EACH POLE
	INTERRUPTER SWITCH, SIZE AND POLES INDICATED
	FUSED SWITCH, SIZE/POLES AND FUSE SIZE INDICATED
	DRAW OUT CIRCUIT BREAKER, SIZE AND POLES INDICATED
	INDIVIDUAL BREAKER WITH SHUNT TRIP, SIZE AND POLES INDICATED. NEMA 1 UNO
	INDIVIDUAL BREAKER, SIZE AND POLES INDICATED. NEMA 1 UNO
	GFP GROUND FAULT PROTECTION
	TVSS TRANSIENT VOLTAGE SURGE SUPPRESSION
	ABS ADJUSTABLE BREAKER SETTINGS (PER SPECIFICATIONS): L'-LONG TIME S'-SHORT TIME T'-INSTANTANEOUS G'-GROUND FAULT R'-ENERGY REDUCING MAINTENANCE SWITCH W/STATUS INDICATOR
	GROUND
	ST SHUNT TRIP COIL
	MOTOR
	DISCONNECT SWITCH, SIZE AND POLES INDICATED. NEMA 1 UNO
	OVERHEAD SERVICE DROP
	GENERATOR SET, MAIN BREAKER SIZE INDICATED
	AUTOMATIC TRANSFER SWITCH (ATS)
	METER AND BASE
	NEUTRAL
	DT DRY TYPE TRANSFORMER
	PMT PAD MOUNT TRANSFORMER

SECURITY

	CCTV CAMERA POWER SUPPLY
	CCTV SYSTEM POWER SUPPLY
	AC (PAN/TILT/ZOOM) ADJUSTABLE CAMERA
	FC FIXED CAMERA
	COH CAMERA IN OUTDOOR HOUSING
	ACOH (PAN/TILT/ZOOM) ADJUSTABLE CAMERA IN OUTDOOR HOUSING
	CCTV OUTLET, +18" UNO
	CMO CEILING MOUNTED CCTV OUTLET
	SKC SECURITY SYSTEM KEYPAD CONTROLLER COORDINATE BOX SIZE AND MUDRING WITH VENDOR
	CR CARD READER
	CMMS CEILING MOUNTED MOTION SENSOR
	WMMS WALL MOUNTED MOTION SENSOR, MOUNTING HEIGHT INDICATED
	PB PANIC BUTTON - MOUNTED UNDER COUNTER

NOTE: THIS IS A STANDARD LIST OF COMMONLY USED ELECTRICAL SYMBOLS. SOME OF THE SYMBOLS SHOWN MAY NOT HAVE BEEN USED IN THIS DRAWING PACKAGE.

FIRE ALARM - DESIGN BUILD NOTES

- THE FIRE ALARM SYSTEM WILL BE DESIGN BUILD BY THE CONTRACTOR. THE FIRE ALARM CONTRACTOR SHALL PRODUCE A FIRE ALARM SUBMITTAL THAT INCLUDES ALL DRAWINGS, CALCULATIONS AND CUT SHEETS REQUIRED TO OBTAIN COMPLETE APPROVAL FROM ALL APPROVING AGENCIES.
- THE FIRE ALARM CONTRACTOR SHALL PROVIDE FIRE ALARM SUBMITTALS TO THE ENGINEER OF RECORD FOR REVIEW PRIOR TO SUBMITTING TO THE AUTHORITY HAVING JURISDICTION AND SHALL NOT PROCEED UNTIL THESE SUBMITTALS HAVE BEEN REVIEWED, APPROVED AND RETURNED.
- REFER TO THE ARCHITECTURAL CODE PLAN(S) FOR THE OCCUPANCY TYPES AND OCCUPANCY LOADS FOR EACH AREA.
- UTILIZE CURRENTLY ADOPTED CODES AND AMENDMENTS FOR FIRE ALARM REQUIREMENTS.
- THE BUILDING IS FULLY SPRINKLED WITH BOTH WET AND DRY SPRINKLER SYSTEMS.
- THE FIRE ALARM CONTRACTOR SHALL PROVIDE AND INSTALL ALL FIRE ALARM INITIATING, MONITORING (SMOKE/ FIRE/ CARBON MONOXIDE), INTERFACE AND RELATED DEVICES AND EQUIPMENT AS REQUIRED FOR A COMPLETE AND FUNCTIONING CODE COMPLIANT SYSTEM.
- THE FIRE ALARM SYSTEM SHALL PROVIDE ALL REQUIRED NOTIFICATION THROUGH OUT THE FACILITY. COORDINATE THE MOUNTING HEIGHTS OF THE NOTIFICATION DEVICES WITH THE CEILING AND STRUCTURE HEIGHTS IN THE BUILDING. REFER TO ARCHITECTURAL PLANS FOR CEILING/STRUCTURE INFORMATION.
- PROVIDE ALL IN-DUCT AND/OR DUCT SMOKE DUCT DETECTORS AS REQUIRED. COORDINATE THE FINAL QUANTITY AND LOCATIONS WITH MECHANICAL CONTRACTOR.
- THE FIRE ALARM CONTROL PANEL SHALL BE LOCATED IN THE FIRE RISER ROOM. THE NOTIFICATION APPLIANCE CIRCUIT POWER SUPPLIES SHALL BE LOCATED IN ELECTRICAL ROOMS, STORAGE AND SIMILAR ROOMS ADJACENT TO ELECTRICAL PANELS.
- PROVIDE 120V POWER, CONTROL RELAYS AND IN-DUCT DETECTORS FOR ALL SMOKE AND SMOKE/FIRE DAMPERS. COORDINATE WITH MECHANICAL PLANS.
- PROVIDE SMOKE DETECTORS, RELAYS AND RELATED CONNECTIONS FOR ALL DOOR HOLD OPENS AS REQUIRED.
- PROVIDE ALL 120V CIRCUITS AS REQUIRED TO ACCOMMODATE FIRE ALARM CONTROL PANEL, DRY SYSTEM AIR COMPRESSOR(S), NITROGEN GENERATOR(S), FIRE BELLS, NAC EXTENDER PANELS, AMPLIFIER PANELS AND RELATED ITEMS.
- ALL FIRE ALARM CIRCUIT BREAKERS SHALL HAVE A RED HANDLE AND BE LOCKABLE TYPE.
- THE FIRE ALARM SYSTEM SHALL INCLUDE A FLUSH MOUNTED REMOTE ANNUNCIATOR LOCATED IN AN OCCUPIED AREA IN THE LOBBY, RECEPTION OR SIMILAR AREA(S). THE LOCATION(S) SHALL BE COORDINATED WITH THE ARCHITECT AND OWNER PRIOR TO PREPARING THE REQUIRED SUBMITTALS.
- FIRE ALARM CABLING SHALL BE CONCEALED. AREAS IN WALLS, ABOVE HARD CEILINGS AND SIMILAR (NON-ACCESSIBLE AREAS) SHALL BE IN CONDUIT. EXPOSED CABLING IS NOT ALLOWED.
- PROVIDE ALL DETECTION, MONITOR AND CONTROL DEVICES AS REQUIRED FOR THE ELEVATOR(S).
- THE BUILDING HAS A FIRE PUMP. PROVIDE ALL MONITORING AND CONTROLS AS REQUIRED.
- THE FIRE ALARM CONTRACTOR SHALL PRODUCE RECORD DOCUMENTS OF THE ACTUAL SYSTEM AS INSTALLED. THE RECORD DOCUMENTS SHALL BE PRODUCED TO THE ACCEPTANCE OF THE ARCHITECT AND ENGINEER. ONE COMPLETE SET OF PRINTED DOCUMENTS AND A PDF VERSION SHALL BE DELIVERED TO THE ARCHITECT.
- INSTALL PLENUM RATED FIRE ALARM CONDUCTORS FROM ALL FIRE ALARM DEVICES INDICATED TO THE FIRE ALARM CONTROL PANEL OR NAC EXTENDER PANEL(S) AS REQUIRED. STUB 3/4" CONDUIT FROM DEVICE TO VOID ABOVE CEILING. PROVIDE NAC EXTENDER PANELS (QUANTITY AS REQUIRED) IN LOCATIONS INDICATED AND CIRCUITING AS REQUIRED FOR A COMPLETE INSTALLATION. CIRCUIT THE FIRE ALARM NOTIFICATION AND INITIATION DEVICES PER THE ELECTRICAL SPECIFICATIONS. FURNISH AND INSTALL ALL APPURTENANCES AND PROGRAMMING REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. REFER TO ELECTRICAL FIRE ALARM SPECIFICATIONS FOR SYSTEM REQUIREMENTS AND SUBMITTAL PROCEDURES.
- REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

COMMUNICATIONS

	JUNCTION BOX FOR FUTURE TELEPHONE/DATA OUTLET. MOUNT AT 18" A.F.F. UNO. PROVIDE SINGLE-GANG MUD RING WITH BLANK COVER PLATE. PROVIDE 1" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE.
	TELEPHONE/DATA OUTLET. MOUNT AT 18" A.F.F. UNO. PROVIDE 1" CONDUIT TO NEAREST ACCESSIBLE CEILING. INSTALL QUANTITY OF DATA (#D) AND TELEPHONE (#T) CABLES INDICATED TO THE NEAREST DATA RACK. PROVIDE (2) DATA CABLES IF A CABLE QUANTITY IS NOT INDICATED.
	FLOOR MOUNTED BOX FOR FUTURE TELEPHONE/DATA OUTLET. JUNCTION BOX WITH SINGLE-GANG MUD RING. PROVIDE 1" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE BLANK COVER PLATE.
	FLOOR MOUNTED TELEPHONE/DATA OUTLET. PROVIDE 1" CONDUIT TO NEAREST ACCESSIBLE CEILING. INSTALL QUANTITY OF DATA (#D) AND TELEPHONE (#T) CABLES INDICATED TO THE NEAREST DATA RACK. PROVIDE (2) DATA CABLES IF A CABLE QUANTITY IS NOT INDICATED.
	IC INTERCOM SYSTEM CALL BUTTON. +46" UNO.
	CSF CEILING MOUNTED SPEAKER WITH BACKBOX
	WIP WALL MOUNTED IP CLOCK SPEAKER COMBINATION UNIT FOR INTERCOM SYSTEM. WITH BACKBOX +8'-0" UNO
	VC VOLUME CONTROL. +46" UNO
	TV TELEVISION OUTLET, +18" AFF UNO. PROVIDE 1-1/4" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE
	CTV CEILING MOUNTED TELEVISION OUTLET
	TTB TELEPHONE TERMINAL BOARD
	CT-XX CABLE TRAY, 4" DEEP, WIRE BASKET STYLE, 'XX' INDICATES WIDTH PROVIDE ALL FITTINGS AND SUPPORT HARDWARE REQUIRED

ELECTRICAL ABBREVIATIONS

A	AMPERES
AC	6" ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AF	AMP FRAME
AIC	AMPS INTERRUPTING CAPACITY
AT	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BD	BOTTOM OF DECK
BS	BOTTOM OF STRUCTURE
C	CEILING MOUNTED
CB	CIRCUIT BREAKER
CF	COMPACT FLUORESCENT
CKT	CIRCUIT
CO	CONDUIT ONLY, PROVIDE PULL-LINE
CT	CURRENT TRANSFORMER
CTL	CONTROL
DC	DIRECT CURRENT
ID	DEMOLITION
DEM	DEMOLITION
DET	DETAIL
DTT	DOUBLE TWIN TUBE
E	EMERGENCY
(E)	EXISTING
EC	ELECTRICAL CONTRACTOR
EL	EMERGENCY LIGHT
F	FUSE
(F)	FUTURE
FACP	FIRE ALARM CONTROL PANEL
G/GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
HH	HAND HOLE
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTO
HPS	HIGH PRESSURE SODIUM
HVAC	HEATING, VENTILATION, & AIR CONDITIONING
IG	ISOLATED GROUND
IPCO	IDAHO POWER COMPANY
J-BOX	JUNCTION BOX
KA	KILOAMP
KVA	KILO VOLT-AMP
KW	KILOWATT
KWH	KILOWATT HOUR
LCP	LIGHTING CONTROL PANEL
MB	MAIN BREAKER
MBR	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUGS ONLY
MNC	MODULAR METERING CENTER
MH	METAL HALIDE
MSB	MAIN SWITCH BOARD
MTG	MOUNTING
N	NEUTRAL
(N)	NEW
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NI	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OH	OVERHEAD
OS	OCCUPANCY SENSOR
P	POLES
PC	PHOTO-CONTROL
PVC	POLYVINYL CHLORIDE
PWR	POWER
RE:	REFERENCE
REC	RECEPTACLE
(R)	RELOCATED
SF	SQUARE FEET
TBD	TO BE DETERMINED
TDR	TIME DELAY RELAY
TK	TOE KICK
TSP	TWISTED SHIELDED PAIR
TRT	TRIPLE TUBE
TTB	TELEPHONE TERMINAL BOARD
(TY)	TYPICAL
UC	UNDERCABINET
UG	UNDERGROUND
U.N.O.	UNLESS NOTED OTHERWISE
V	VOLT
VA	VOLT-AMPERE
W	WATT
WG	WIRE GUARD
WP	WEATHER PROOF/NEMA 3R
PROVIDE/	PROVIDE AND INSTALL / PROVIDED AND
PROVIDE BY	INSTALLED BY / PROVIDED AND INSTALL
INSTALLED/	INSTALL
NOTE:	THIS IS A STANDARD LIST OF COMMONLY USED ELECTRICAL ABBREVIATIONS. SOME OF THE ABBREVIATIONS SHOWN ABOVE MAY NOT BE USED IN THIS DRAWING PACKAGE.

ELECTRICAL GENERAL NOTES

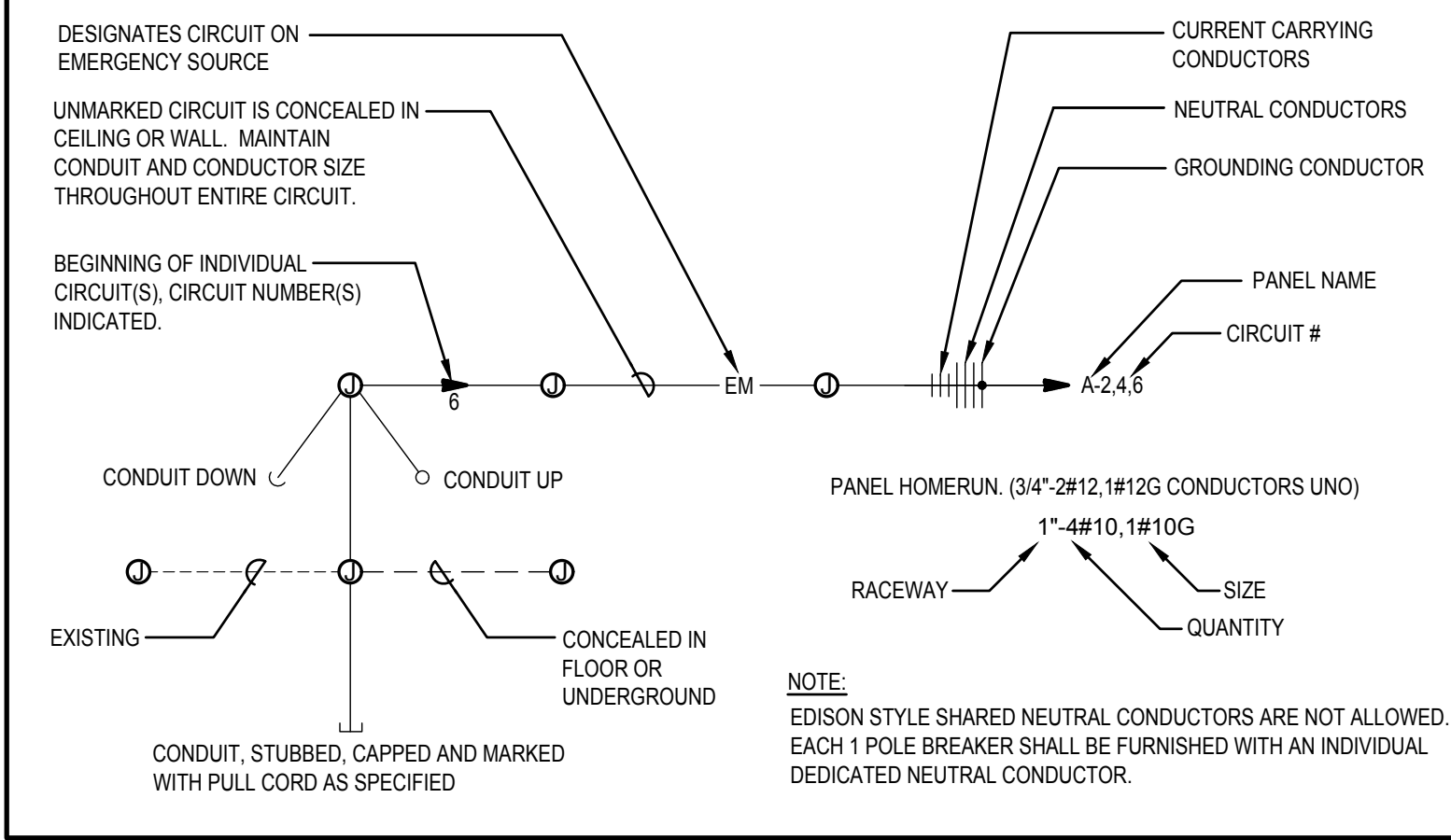
- THESE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE. THEREFORE, THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL EQUIPMENT AND DEVICE LOCATIONS WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DIVISIONS PRIOR TO ROUGH-IN. REFER TO AND COORDINATE WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL WORK THAT IS REQUIRED BY THE ELECTRICAL CONTRACTOR.
 - ALL CONDUIT AND JUNCTION BOXES ARE TO BE CONCEALED UNLESS LOCATED WITHIN DEDICATED ELECTRICAL OR MECHANICAL ROOMS. USE OF SURFACE MOUNTED RACEWAYS IN ALL OTHER SPACES MUST BE APPROVED BY THE ARCHITECT FOR EACH LOCATION. WHERE SURFACE RACEWAYS ARE APPROVED, UTILIZE WIREKLD, OR APPROVED EQUAL. SURFACE MOUNTED RACEWAYS PAINTED TO MATCH SURROUNDING WALLS.
 - REFER TO ARCHITECTURAL ELEVATIONS FOR OUTLET HEIGHTS WHERE THE SPECIFIC OUTLET HEIGHT IS NOT INDICATED. REFER TO THE ELECTRICAL LEGEND FOR THE DEFAULT OUTLET HEIGHT WHEN NOT INDICATED ON ELEVATIONS OR ON AT THE DEVICES.
 - PROVIDE PULL-LINE IN ALL EMPTY CONDUITS.
 - TERMINATE ALL LOW-VOLTAGE CONDUITS WITH INSULATED THROAT BUSHING.
 - MECHANICAL EQUIPMENT INDICATED IS SHOWN IN AN APPROXIMATE LOCATION. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
 - ALL NON-LOCKING, 120-V, 15 AND 20-AMP RECEPTACLES SHALL BE LISTED TAMPER-RESISTENT RECEPTACLES PER NEC 406.12
- FIRE ALARM:**
- INSTALL PLENUM RATED FIRE ALARM CONDUCTORS FROM ALL FIRE ALARM DEVICES INDICATED TO THE FIRE ALARM CONTROL PANEL OR NAC EXTENDER PANEL(S) AS REQUIRED. STUB 3/4" CONDUIT FROM DEVICE TO VOID ABOVE CEILING. PROVIDE NAC EXTENDER PANELS (QUANTITY AS REQUIRED) IN LOCATIONS INDICATED AND CIRCUITING AS REQUIRED FOR A COMPLETE INSTALLATION. CIRCUIT THE FIRE ALARM NOTIFICATION AND INITIATION DEVICES PER THE ELECTRICAL SPECIFICATIONS. FURNISH AND INSTALL ALL APPURTENANCES AND PROGRAMMING REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. REFER TO ELECTRICAL FIRE ALARM SPECIFICATIONS FOR SYSTEM REQUIREMENTS AND SUBMITTAL PROCEDURES.

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LEGEND IS GENERAL IN NATURE. NOT ALL OF THE SYMBOLS SHOWN ARE USED IN THIS PROJECT.

CIRCUITING SYMBOLS





2400 E RIVERWALK DRIVE
BOISE, IDAHO 83706
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208.336.3443



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PRELIMINARY



NOT FOR CONSTRUCTION
12/9/2022

Jefferson Elementary School
Addition and Remodel
600 N. Fillmore Street, Jerome, Idaho

DATE: December 9, 2022
LKV PROJECT #: -
REVISIONS:

DRAWN BY: AN
CHECKED BY: KL

Design Development

DRAWING NO.

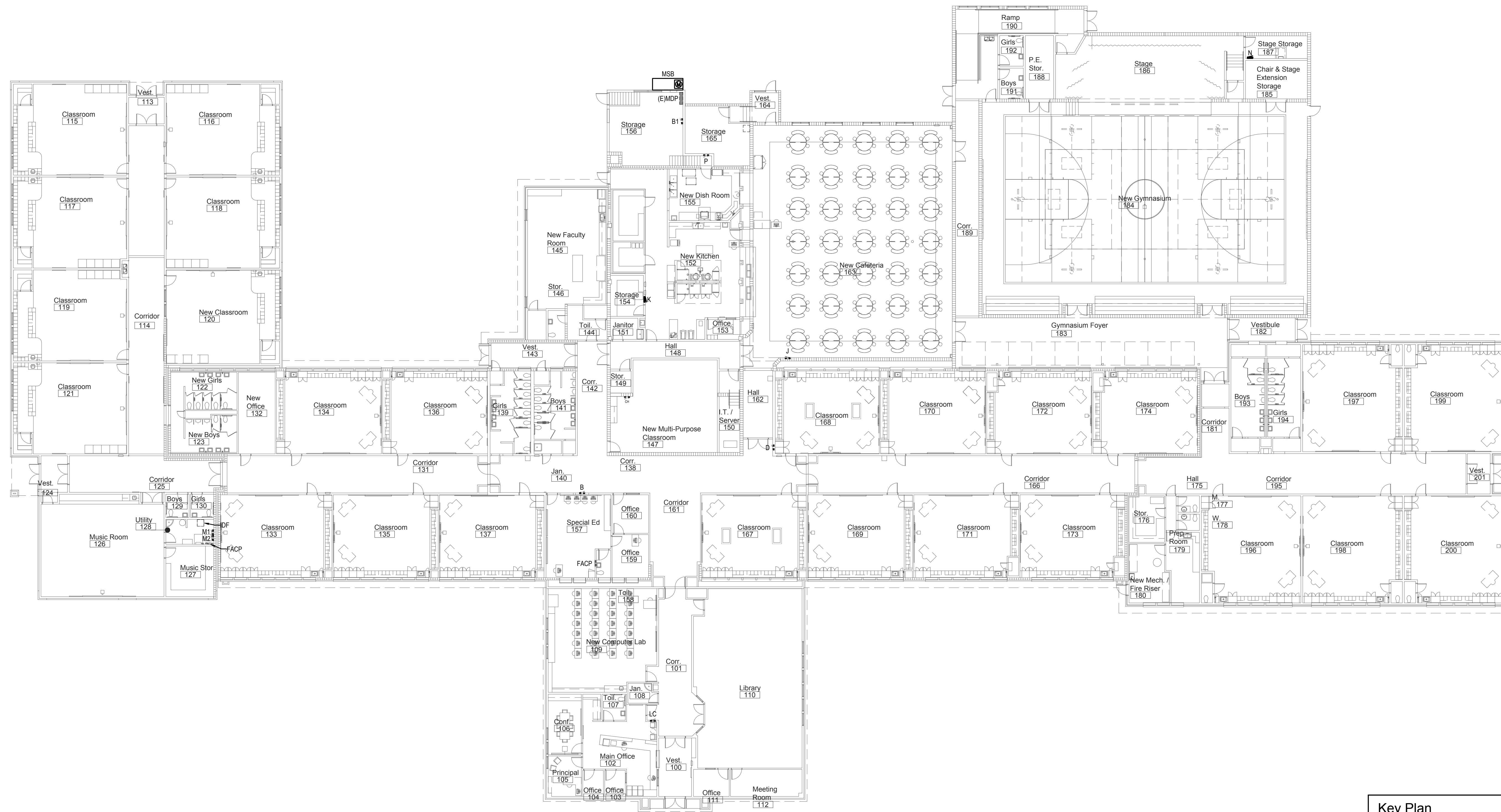
E-0.1

ENERGY CODE COMMISSIONING COMPLIANCE NOTES

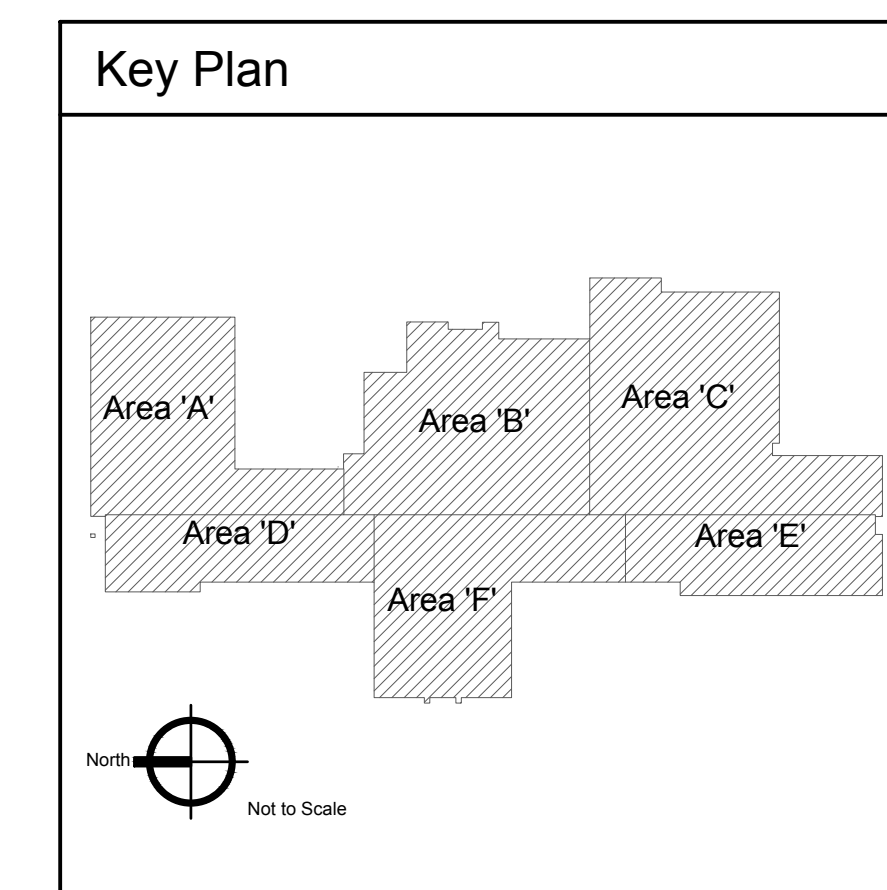
SECTION 408 SYSTEM COMMISSIONING

IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL BELOW NOTED DOCUMENTS WITHIN 90 DAYS OF CERTIFICATE OF OCCUPANCY:

- A. AS-BUILT DRAWINGS - DRAWINGS SHALL INCLUDE THE LOCATION AND PERFORMANCE DATA OF ALL PIECES OF MECHANICAL EQUIPMENT.
- B. OPERATING AND MAINTENANCE MANUALS - MANUALS SHALL INCLUDE THE FOLLOWING:
 - 1. SUBMITTAL DATA ON ALL PIECES OF EQUIPMENT REQUIRING MAINTENANCE
 - 2. MANUFACTURER'S OPERATIONS AND MAINTENANCE DATA ON ALL PIECES OF EQUIPMENT. ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
 - 3. NAME AND ADDRESS AND PHONE NUMBER OF OF AT LEAST ONE (1) SERVICE PROVIDED.
 - 4. LIGHTING CONTROL SYSTEMS MAINTENANCE AND CALIBRATION INFORMATION INCLUDING WIRING DIAGRAMS, EQUIPMENT AND SYSTEM SCHEMATICS, AND CONTROL SEQUENCES OF OPERATIONS. DESIRED OR FIELD DETERMINED SETPOINTS SHALL BE PERMANENTLY RECORDED ON CONTROL DRAWINGS AT ALL CONTROL DEVICES, OR FOR DIGITAL CONTROL SYSTEMS, IN THE SYSTEM PROGRAMMING INSTRUCTIONS.
 - 5. A NARRATIVE ON HOW EACH LIGHTING SYSTEM IS INTENDED TO OPERATE, INCLUDING RECOMMENDED SETPOINTS.
- C. LIGHTING SYSTEM FUNCTIONAL TESTING REQUIREMENTS
 FUNCTIONAL TESTING - ALL AUTOMATIC LIGHTING CONTROL SYSTEM SHALL BE FULLY TESTED TO ENSURE THE CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED, AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 WHERE OCCUPANT SENSORS, TIME SWITCHES, PROGRAMMABLE CONTROLS, PHOTOSENSORS OR DAYLIGHTING CONTROLS ARE INSTALLED, THE FOLLOWING PROCEDURES SHALL BE PERFORMED:
 - 1. CONFIRM THAT THE PLACEMENT, SENSITIVITY AND TIME-OUT ADJUSTMENTS FOR OCCUPANT SENSORS YIELD ACCEPTABLE PERFORMANCE.
 - 2. CONFIRM THAT THE TIME SWITCHES AND PROGRAMMABLE SCHEDULE CONTROLS ARE PROGRAMMED TO TURN THE LIGHTS OFF.
 - 3. CONFIRM THAT THE PLACEMENT AND SENSITIVITY ADJUSTMENTS FOR PHOTOSENSOR CONTROLS REDUCE ELECTRIC LIGHT BASED ON THE AMOUNT OF USABLE DAYLIGHT IN THE SPACE AS SPECIFIED.
- D. FINAL LIGHTING SYSTEM FUNCTIONAL REPORT - A REPORT OF TEST PROCEDURES AND RESULTS IDENTIFIED AS THE "FINAL LIGHTING CONTROL REPORT" SHALL BE DELIVERED TO THE BUILDING OWNER. THE REPORT SHALL INCLUDE THE FOLLOWING:
 - 1. LIST OF FUNCTIONAL TESTS USED DURING THE COMMISSIONING PROCESS ON EACH PIECE OF EQUIPMENT.
 - 2. RESULTS OF ALL FUNCTIONAL TESTS ON ALL PIECES OF EQUIPMENT.
 - 3. LIST OF DEFICIENCIES FOUND AND CORRESPONDING CORRECTIVE MEASURES EITHER IMPLEMENTED OR PROPOSED ON EACH PIECE OF EQUIPMENT.
 - 4. LIST OF EQUIPMENT NOT ABLE TO BE FUNCTIONALLY TESTED DUE TO CURRENT CLIMATE CONDITIONS. THESE PIECES OF EQUIPMENT WILL FUNCTIONALLY TESTED ONCE CLIMATE CHANGES ALLOW.



Overall Electrical Floor Plan
Scale: 1/16" = 1'-0"



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Jefferson Elementary School
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600 N. Fillmore Street, Jerome, Idaho

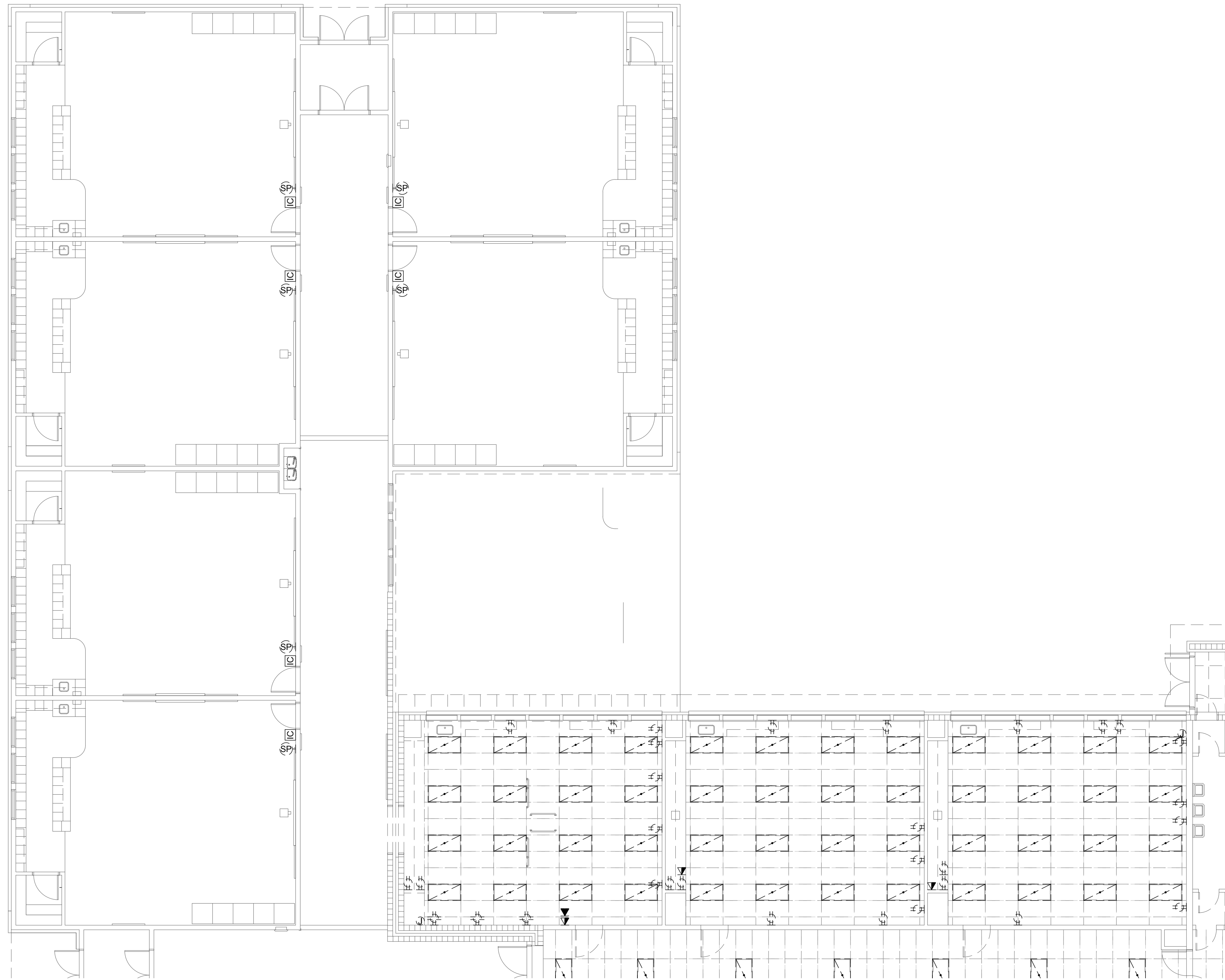
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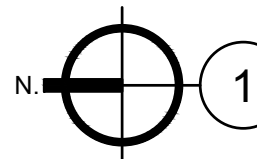
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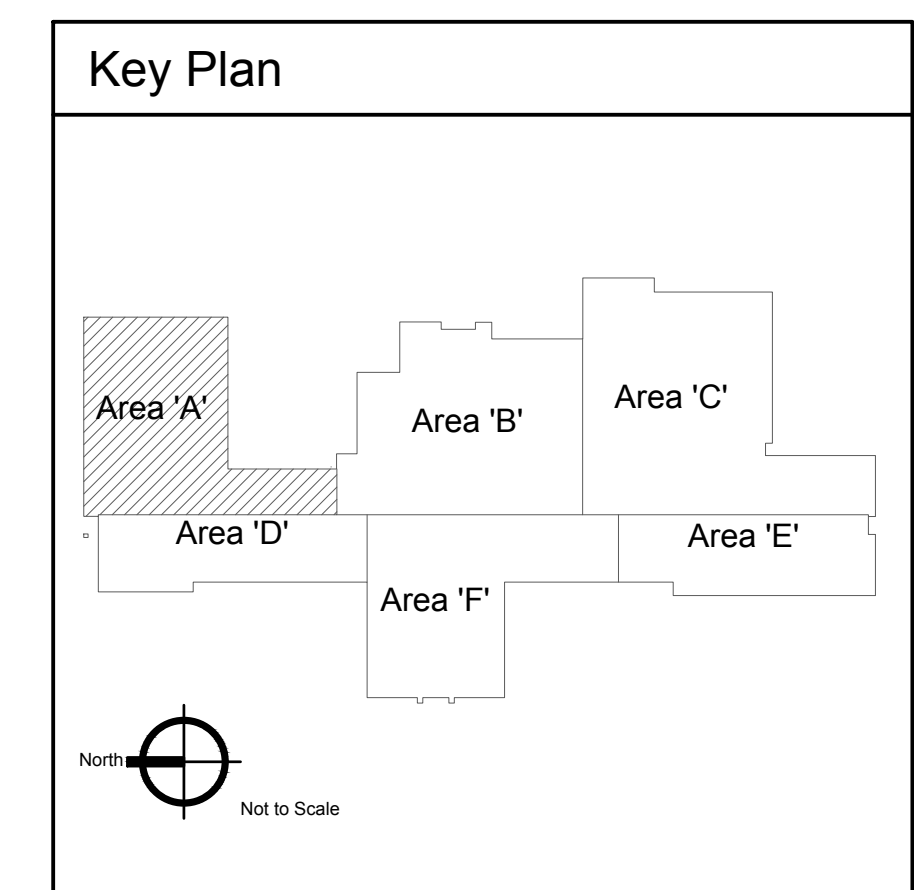
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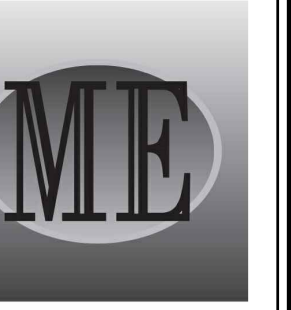
E-2.0




1 Electrical Demolition Plan - Area 'A'
 Scale: 1/8" = 1'-0"



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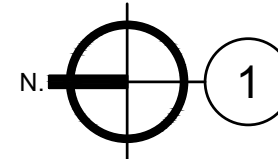
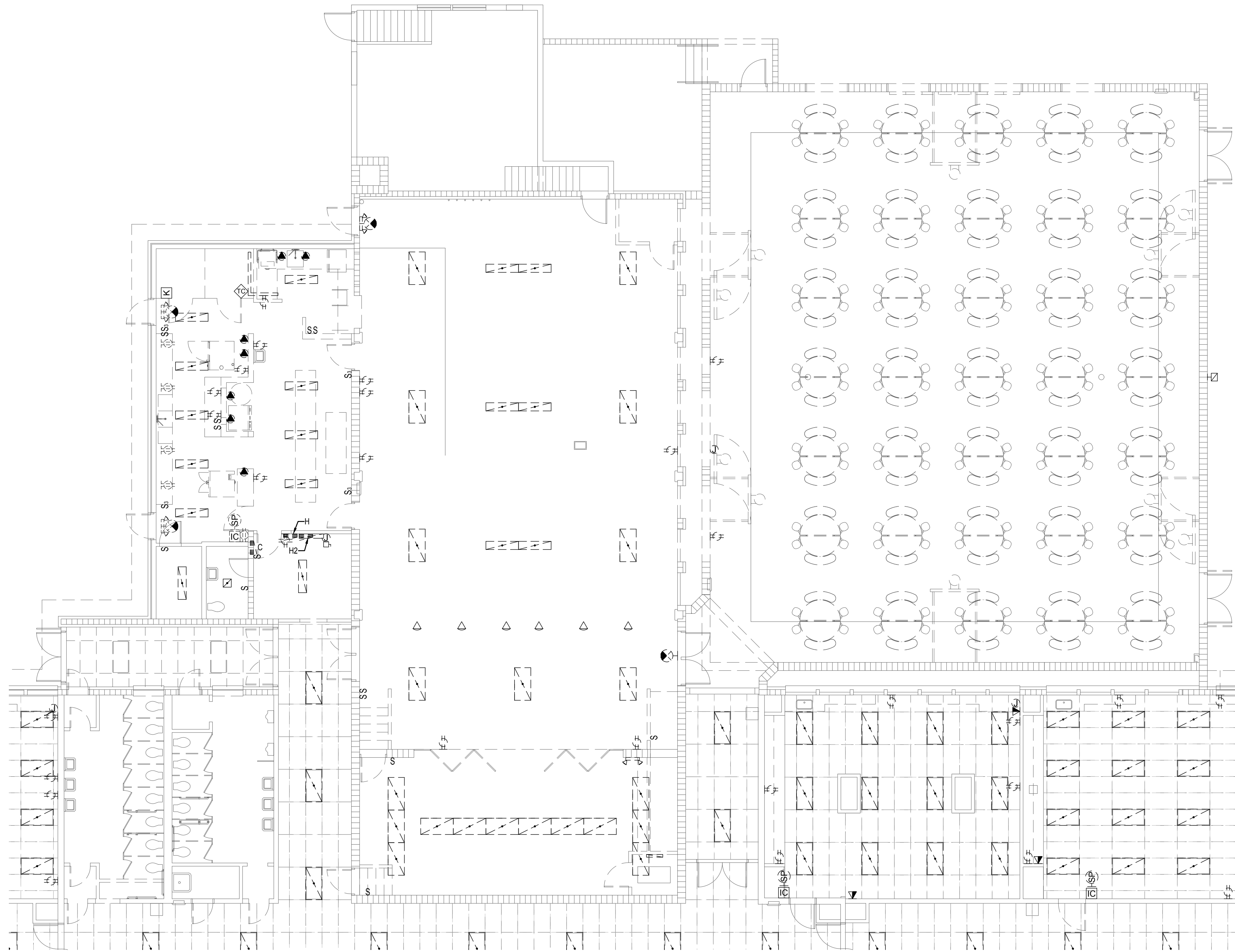
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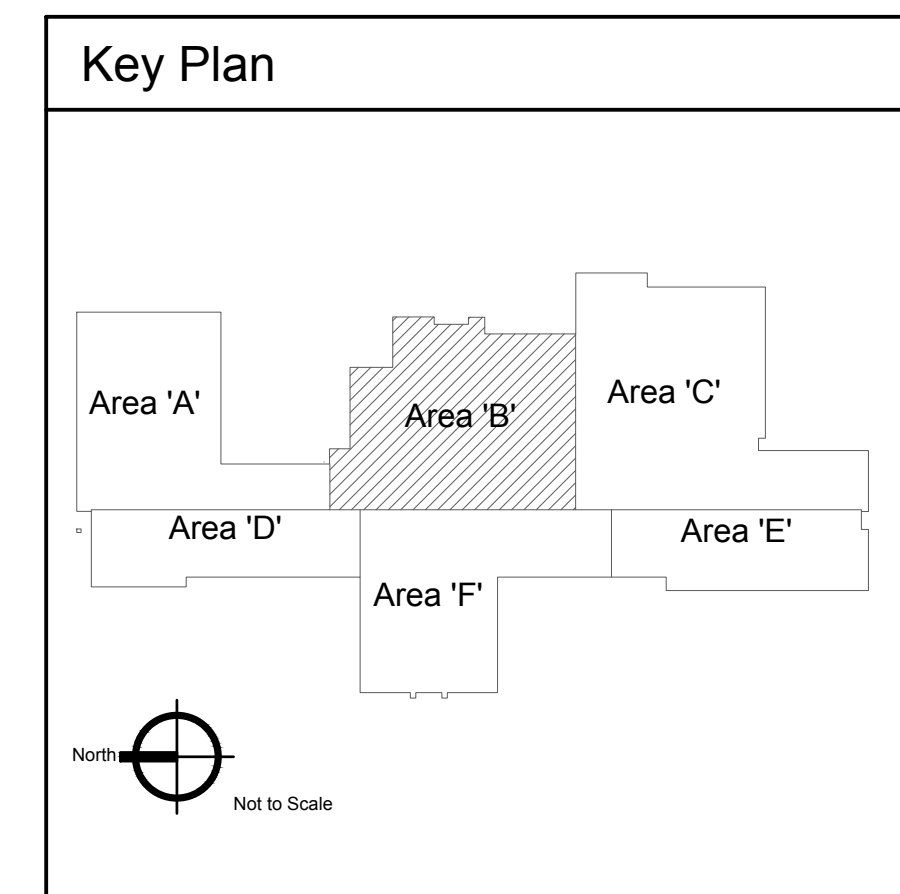
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E-2.1



1 Electrical Demolition Plan - Area 'B'

Scale: 1/8" = 1'-0"



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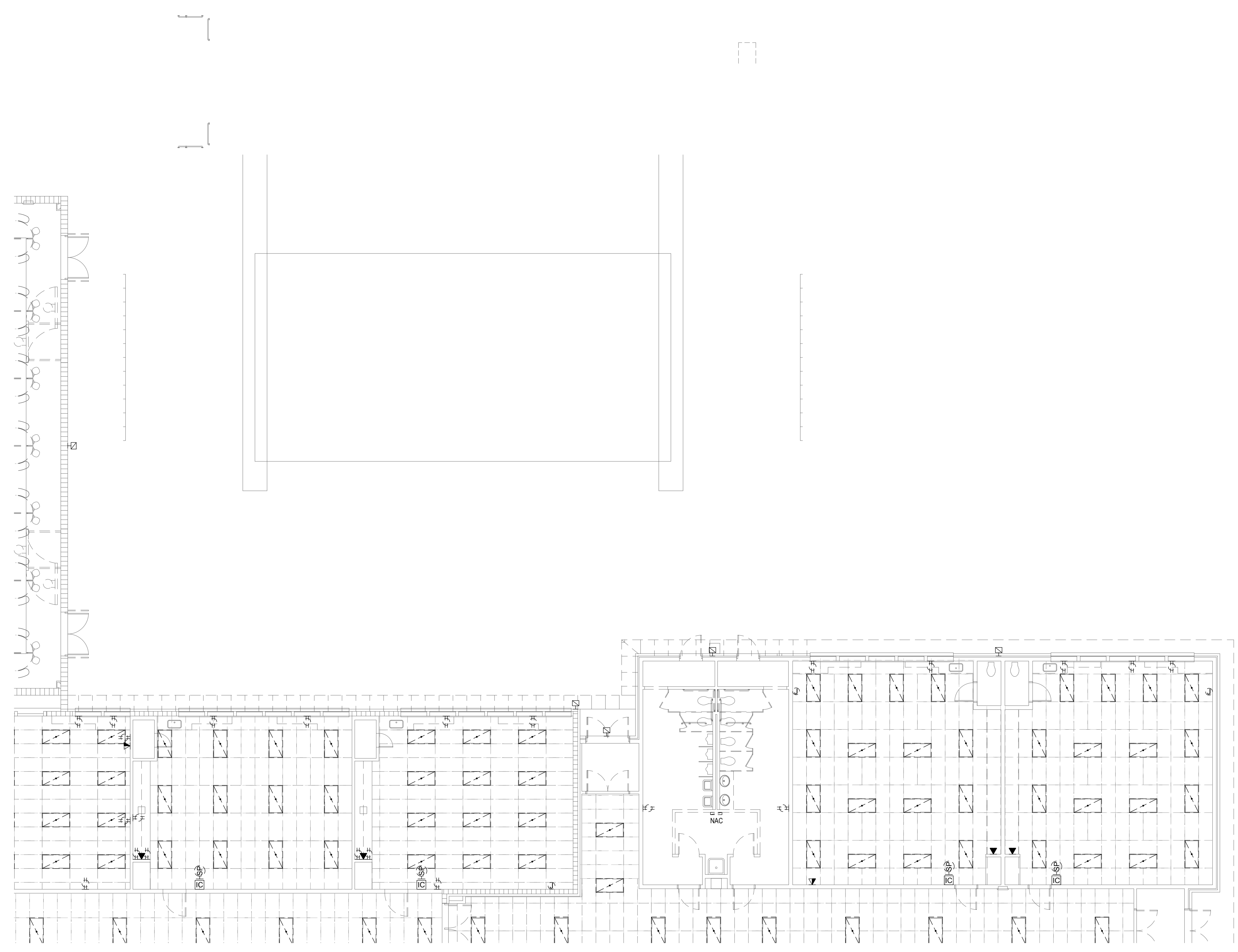
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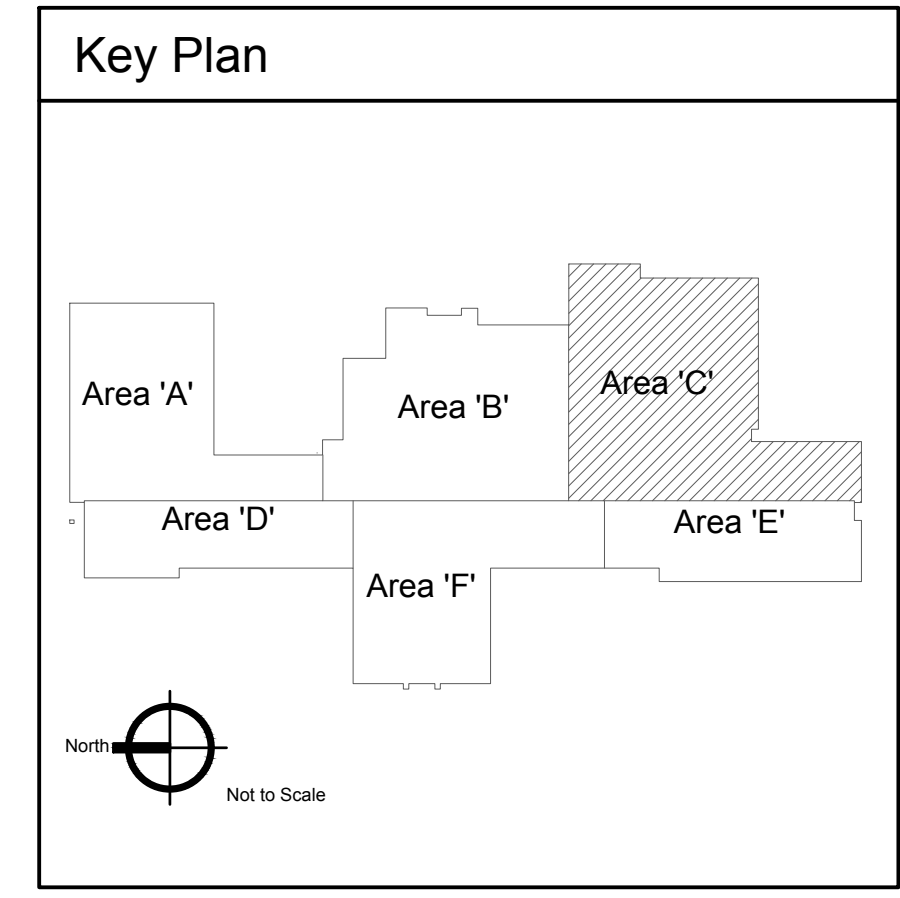
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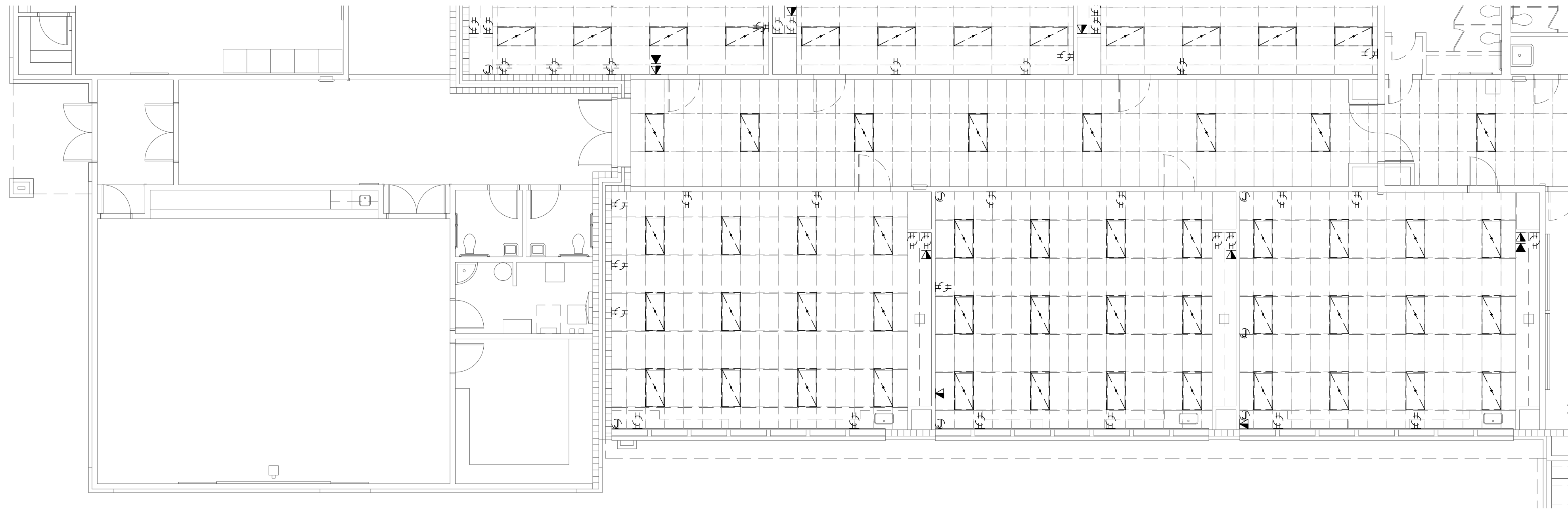
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E-2.2

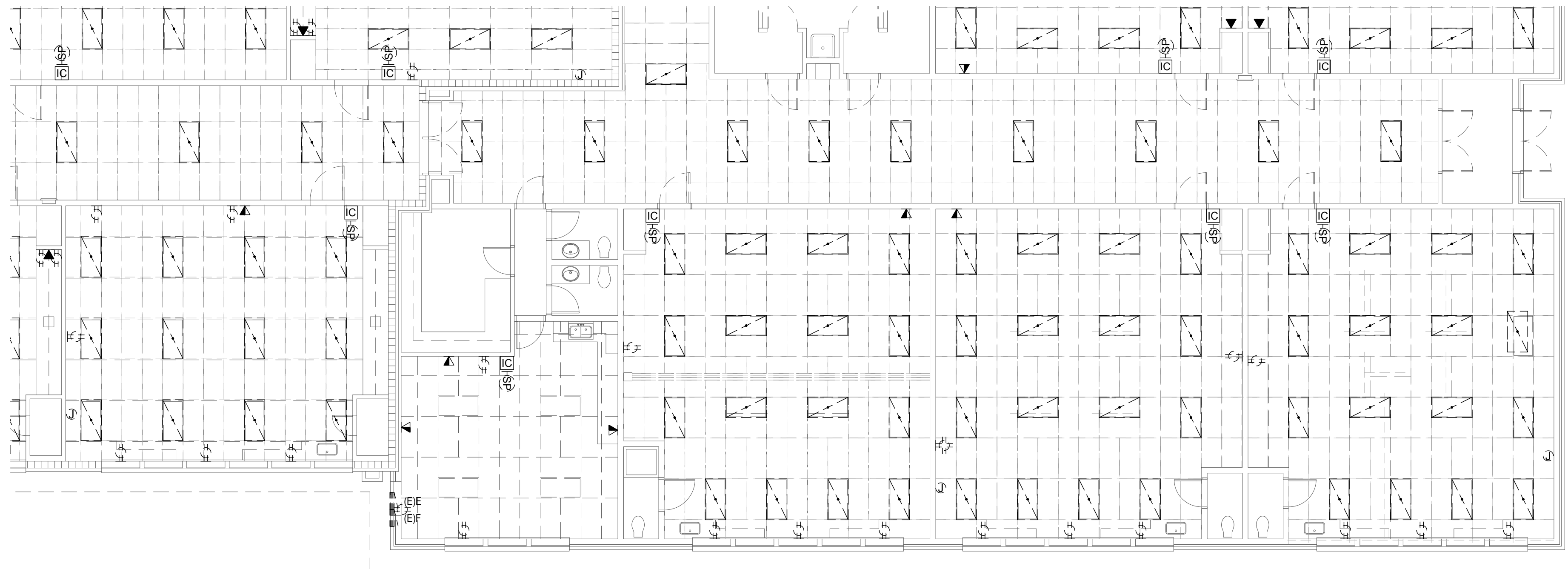


1 Electrical Demolition Plan - Area 'C'
Scale: 1/8" = 1'-0"

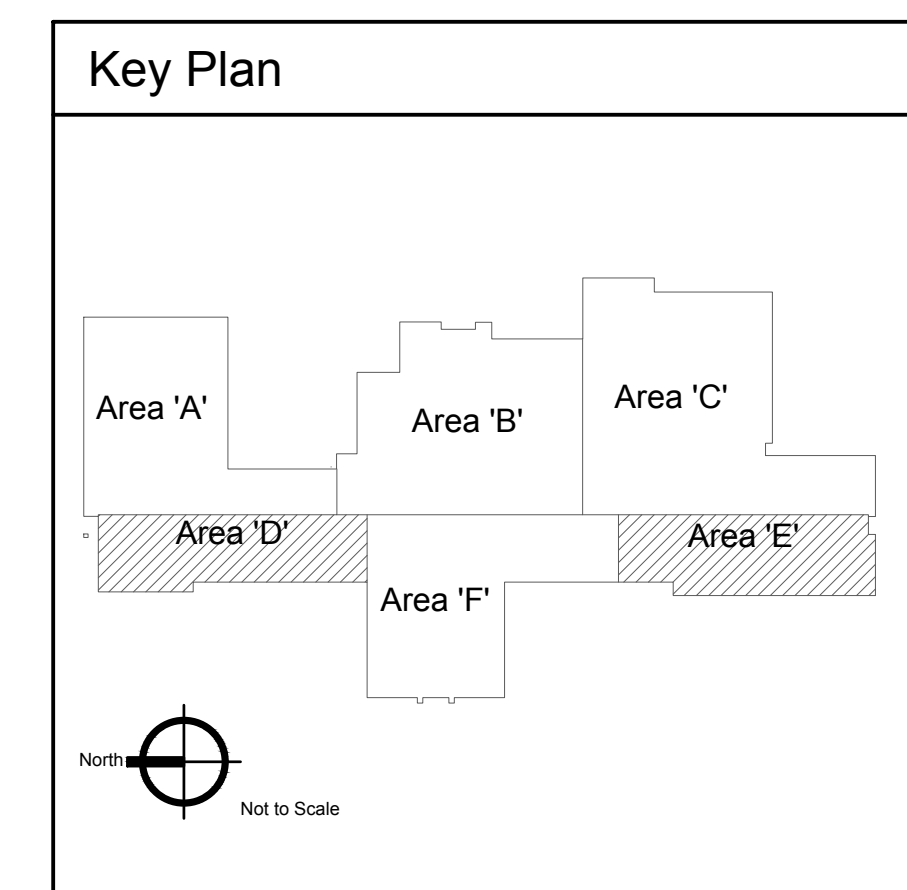




1 Electrical Demolition Plan - Area 'D'
Scale: 1/8" = 1'-0"



2 Electrical Demolition Plan - Area 'E'
Scale: 1/8" = 1'-0"



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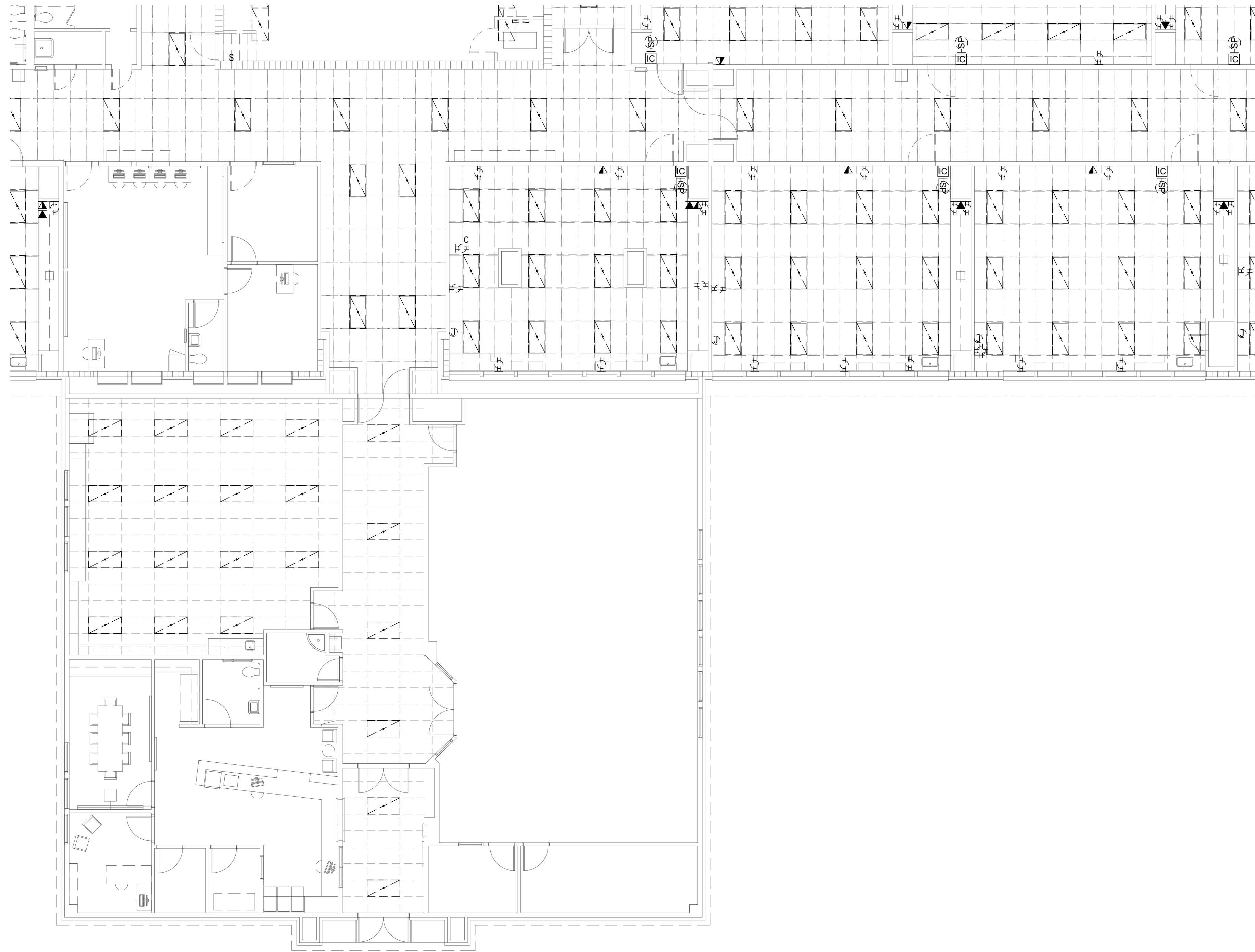
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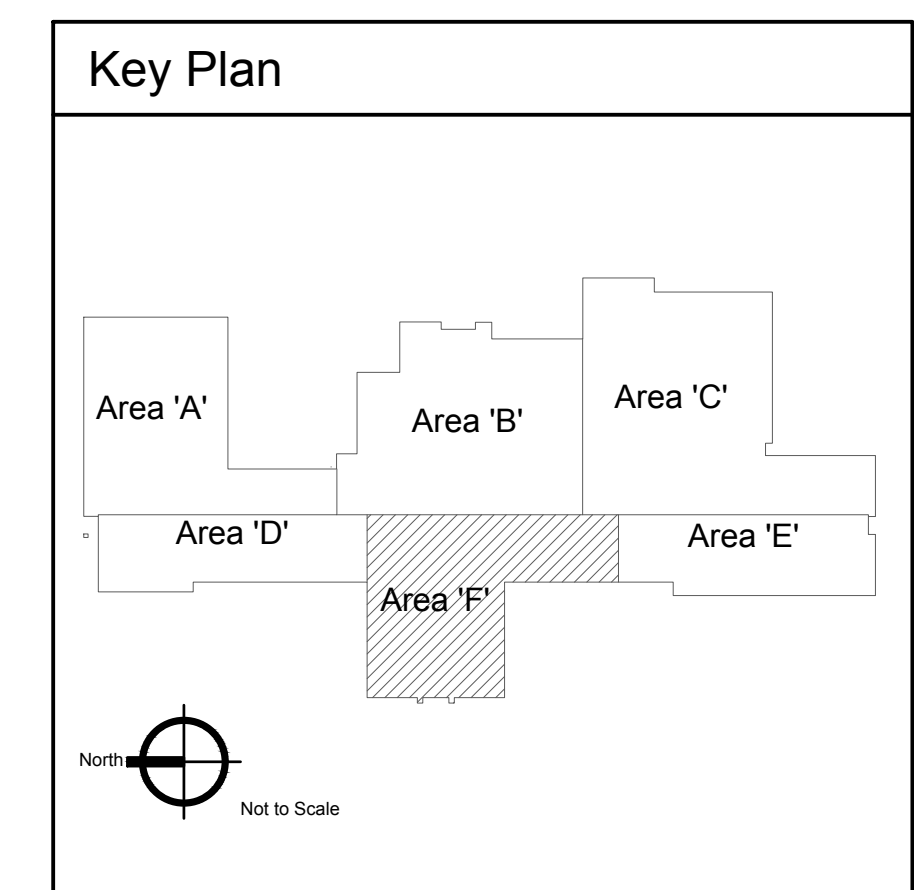
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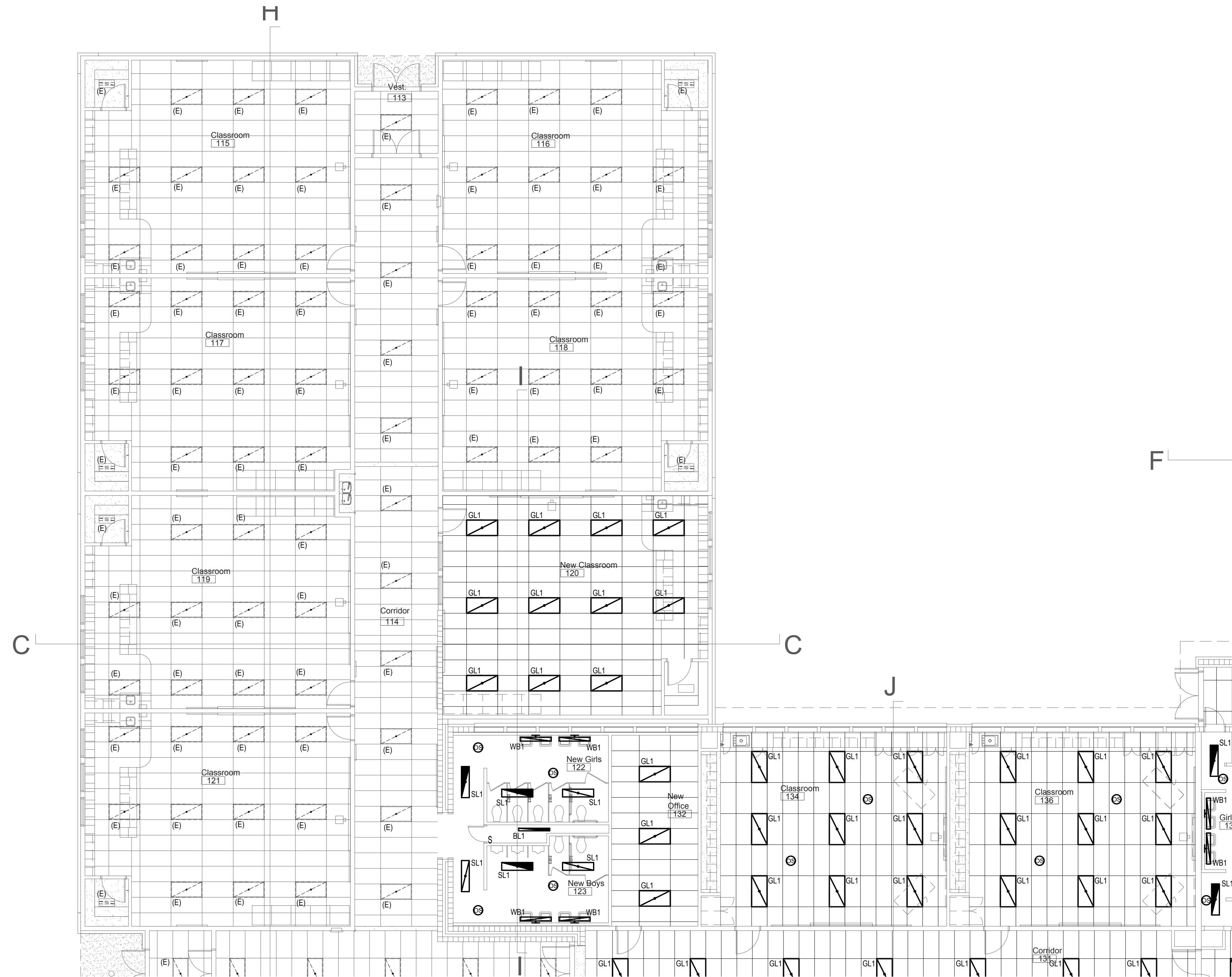
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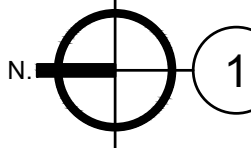
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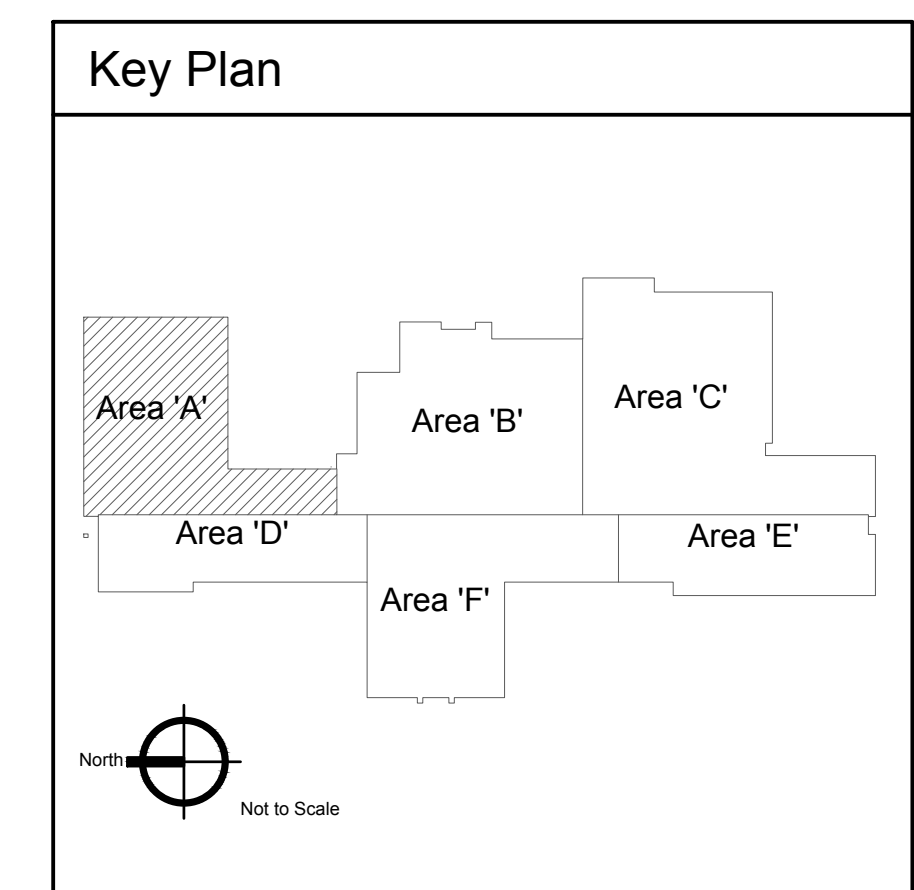



1 Electrical Demolition Plan - Area 'F'
 Scale: 1/8" = 1'-0"





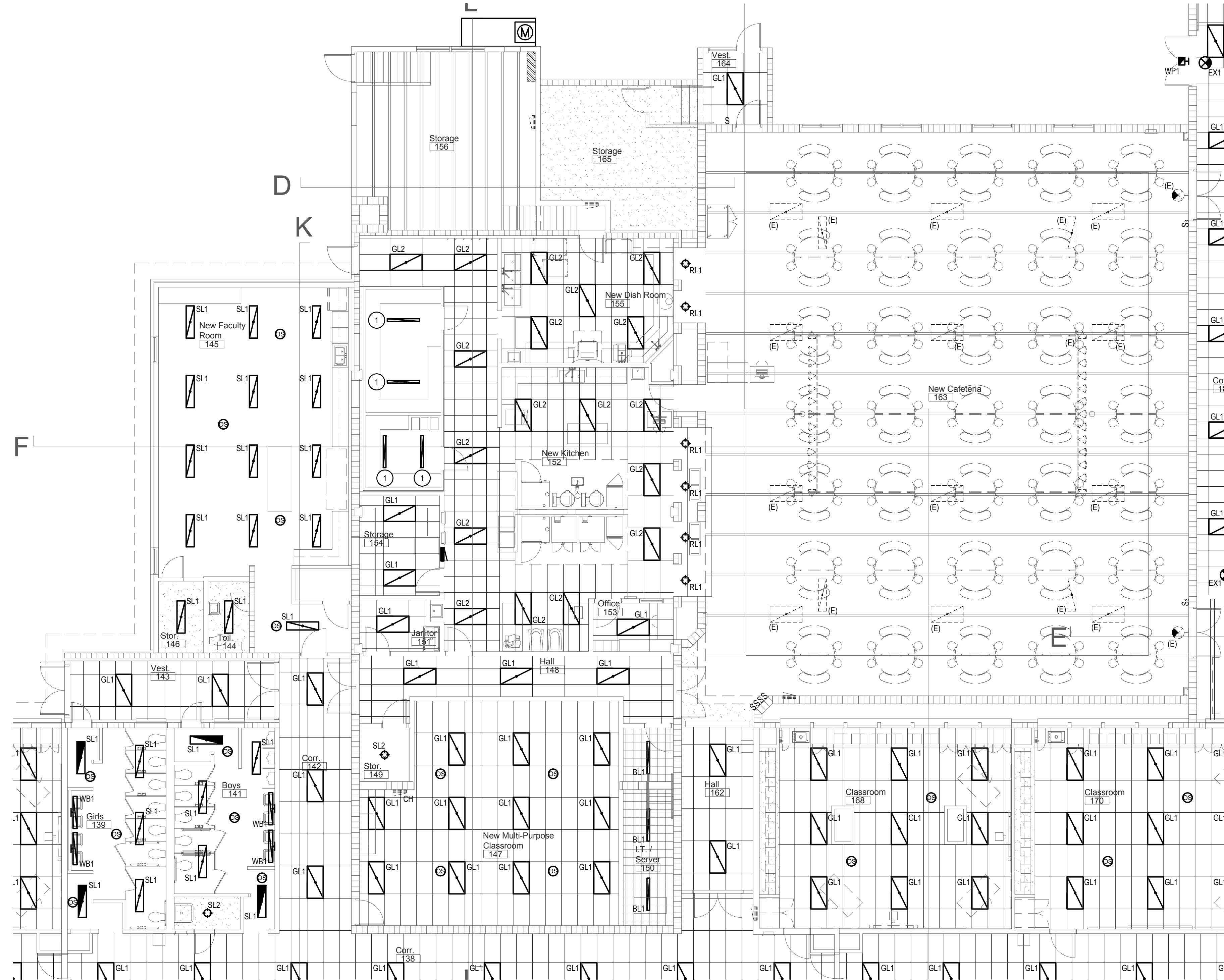

Lighting Plan - Area 'A'
 Scale: 1/8" = 1'-0"



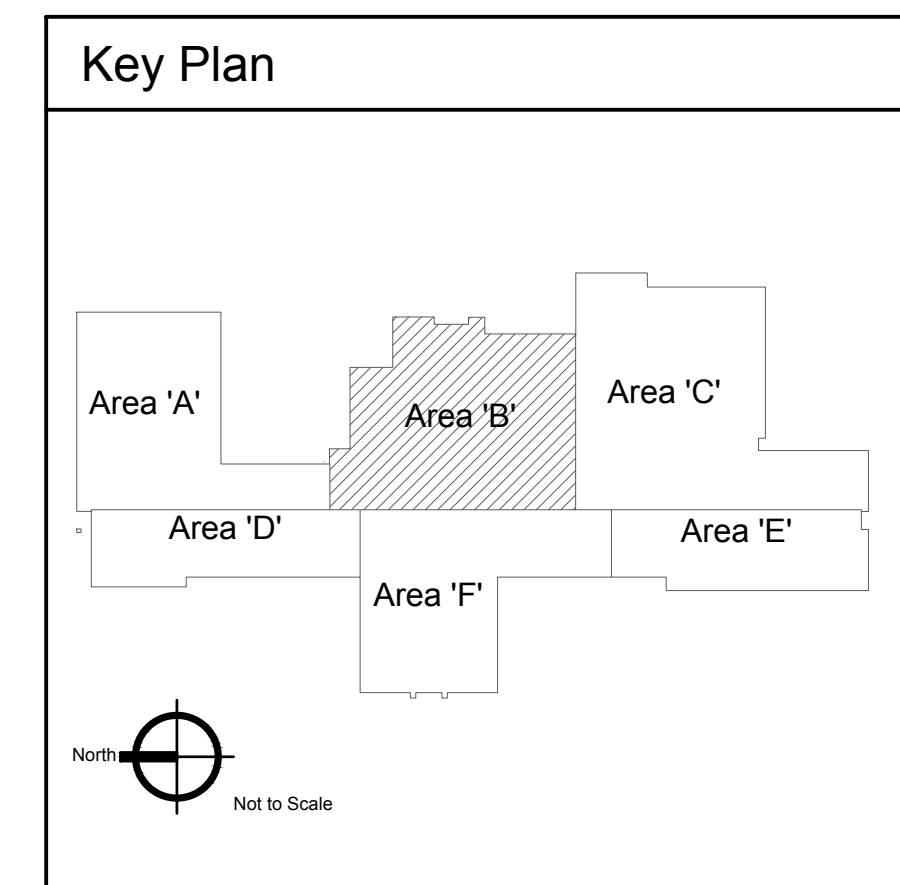
KEYED NOTES:

⊕ SYMBOL USED FOR NOTE CALLOUT.

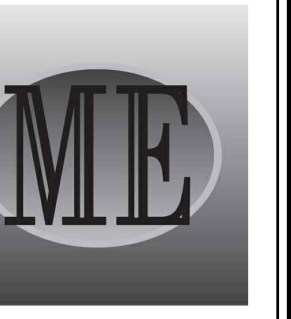
1. COOLER/FREEZER LIGHTS PROVIDED WITH COOLER/FREEZER AND INSTALLED BY THE ELECTRICAL CONTRACTOR. INSTALL ALL WIRING, CONDUITS AND ELECTRICAL EQUIPMENT REQUIRED FOR A COMPLETE AND FUNCTIONING SYSTEM. COORDINATE WITH KITCHEN EQUIPMENT SUPPLIER AND EQUIPMENT PRIOR TO BEGINNING WORK.



1 Lighting Plan - Area 'B'
Scale: 1/8" = 1'-0"



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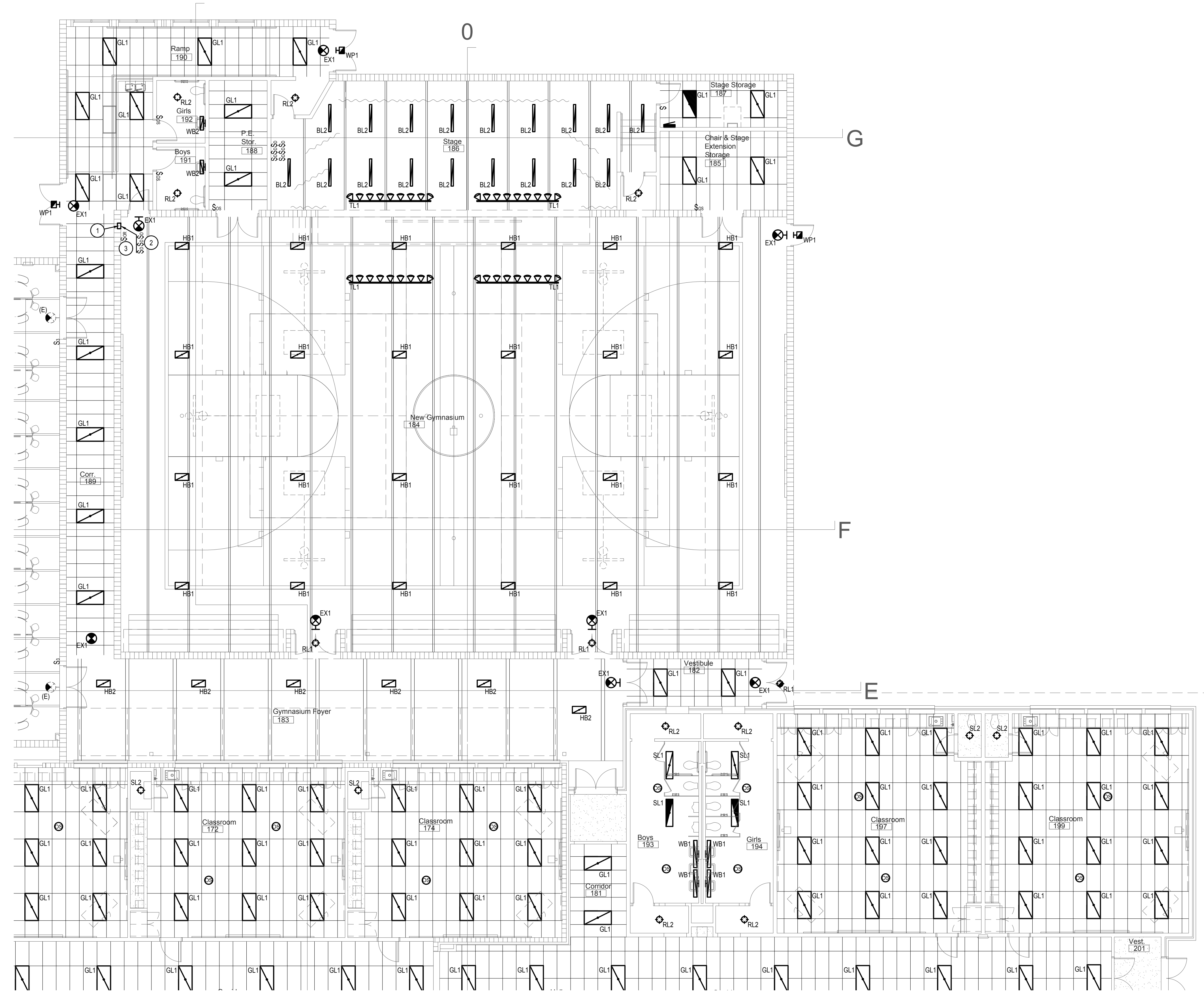
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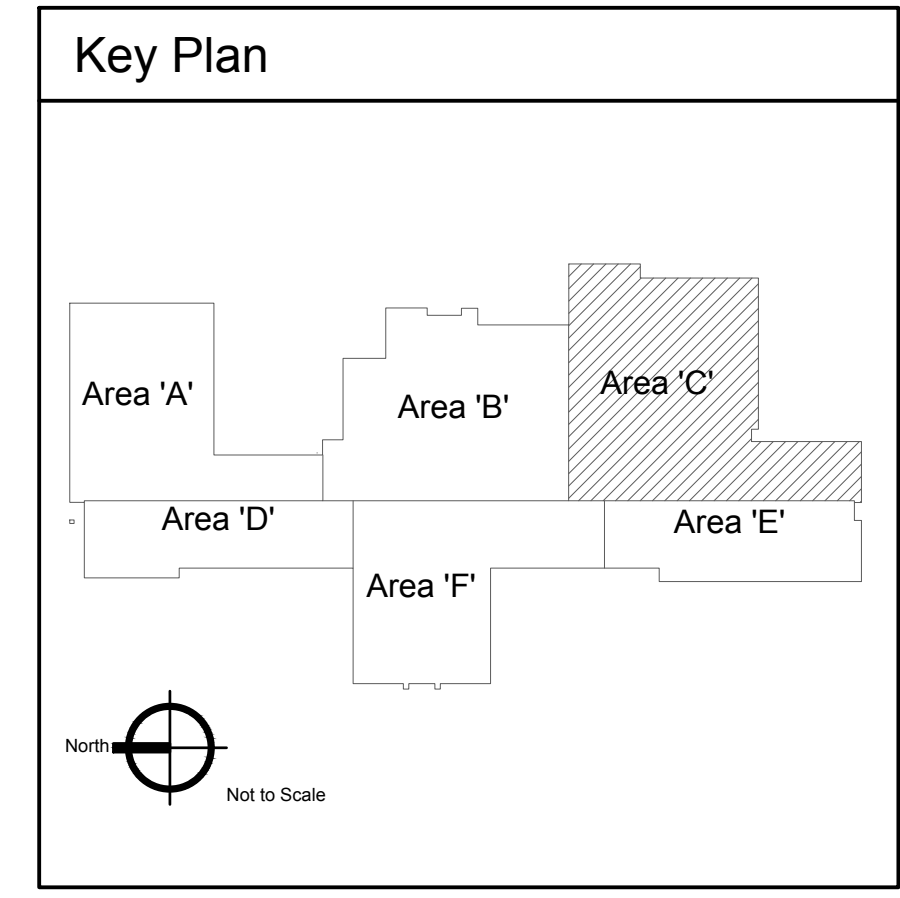
E-4.2



Lighting Plan - Area 'C'
Scale: 1/8" = 1'-0"

KEYED NOTES:

- 1. DIGITAL, 0-10V DIMMING LIGHTING SWITCHES FOR THE GYMNASIUM LIGHTING TO BE LOCATED IN A FLUSH MOUNTED ENCLOSURE (HOFFMAN 'ASE' SERIES OR EQUAL) WITH LOCKABLE HINGED COVER (HOFFMAN 'AFD' SERIES WITH AN 'ACLFDF' LOCK KIT OR EQUAL). SIZE ENCLOSURE AS REQUIRED TO ACCOMMODATE ALL LIGHT SWITCHES INDICATED. THE CENTER OF THIS BOX IS TO BE MOUNTED 48" AFF. SWITCHES SHALL BE COMPATIBLE WITH THE ASSOCIATED LIGHT FIXTURES AND PROVIDE RAISE/LOWER AS WELL AS ON/OFF FUNCTIONS. PROVIDE ALL REQUIRED CABLING. PROVIDE JUNCTION BOXES IN THE ENCLOSURE FOR THE SWITCHES. ALL CONDUCTORS AND CABLING WITHIN ENCLOSURE ARE TO BE CONCEALED IN CONDUIT SO THEY ARE NOT EXPOSED TO THE USER. PROVIDE (2) 3/4" SPARE CONDUITS FROM ENCLOSURE TO THE BUILDING STRUCTURE. LOCK SHALL BE KEYED TO MATCH THE SCHOOL MASTER KEY SYSTEM OR AS DIRECTED BY OWNER. RE: CAFETERIA LIGHT SWITCH ENCLOSURE DETAIL.
- 2. 3-BUTTON DIGITAL SWITCHES WITH RAISE/LOWER AND ON/OFF CONTROL. SWITCHES ARE TO BE COMPATIBLE WITH LIGHTING ROOM CONTROLLER IN THIS SPACE. PROVIDE SEPARATE SWITCH EACH CONTROL ZONE BY SUBSCRIPT INDICATED. RE: CLASSROOM LIGHTING CONTROL DETAIL.
- 3. PROVIDE MOMENTARY LOW-VOLTAGE OVERRIDE SWITCH WITH CABLING BACK TO LIGHTING CONTROL PANEL AS REQUIRED. SWITCH SHALL BE LABELED 'OVERRIDE' AND PROVIDE 2 HOURS OF OPERATION FOR THE LIGHTING DURING NON-BUSINESS HOURS.



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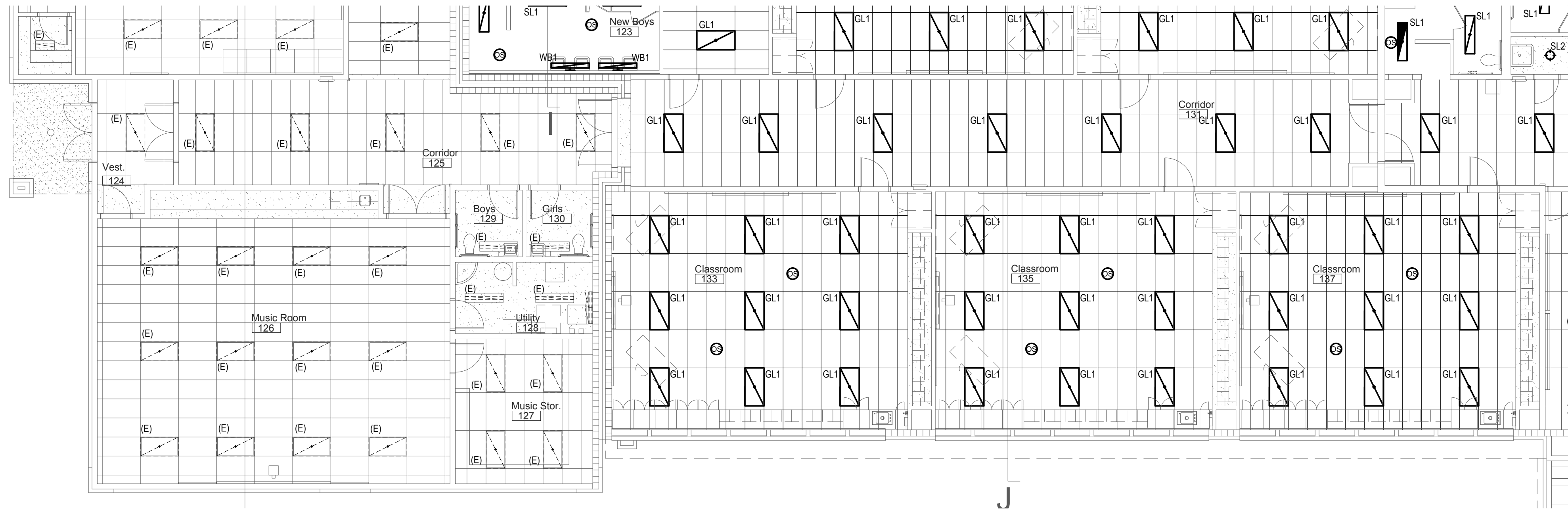
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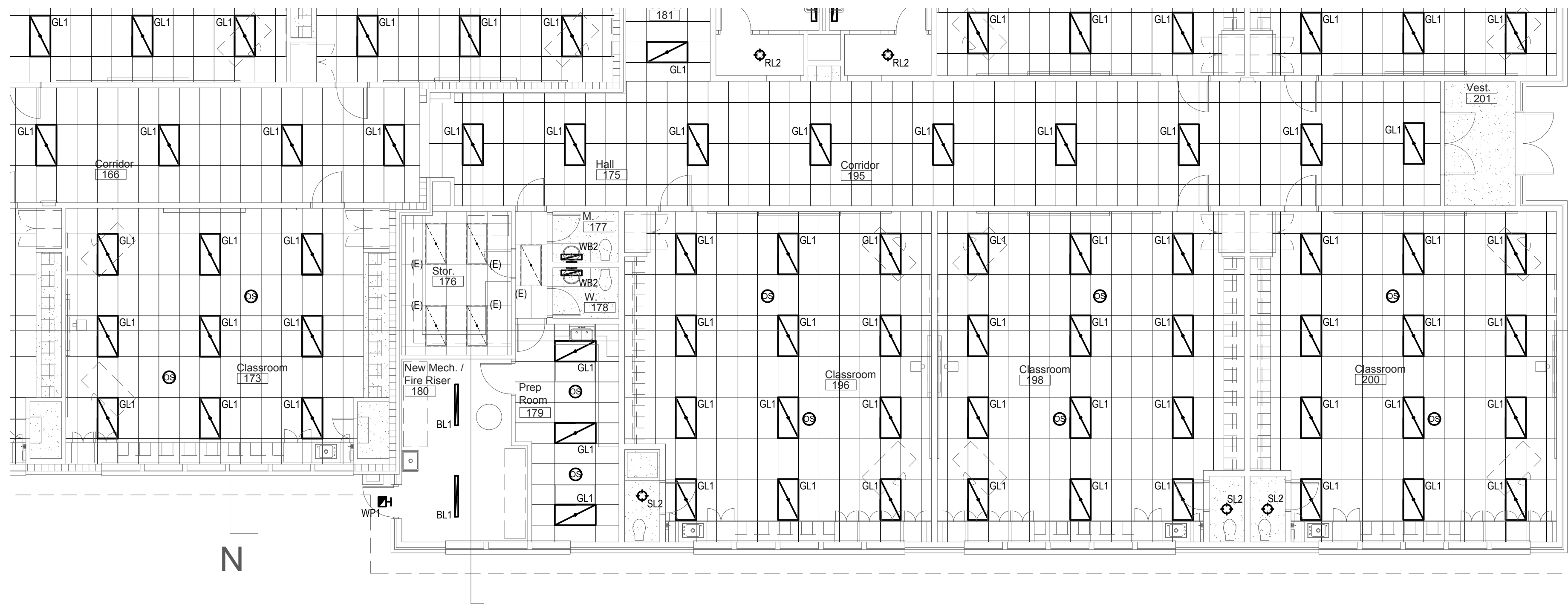
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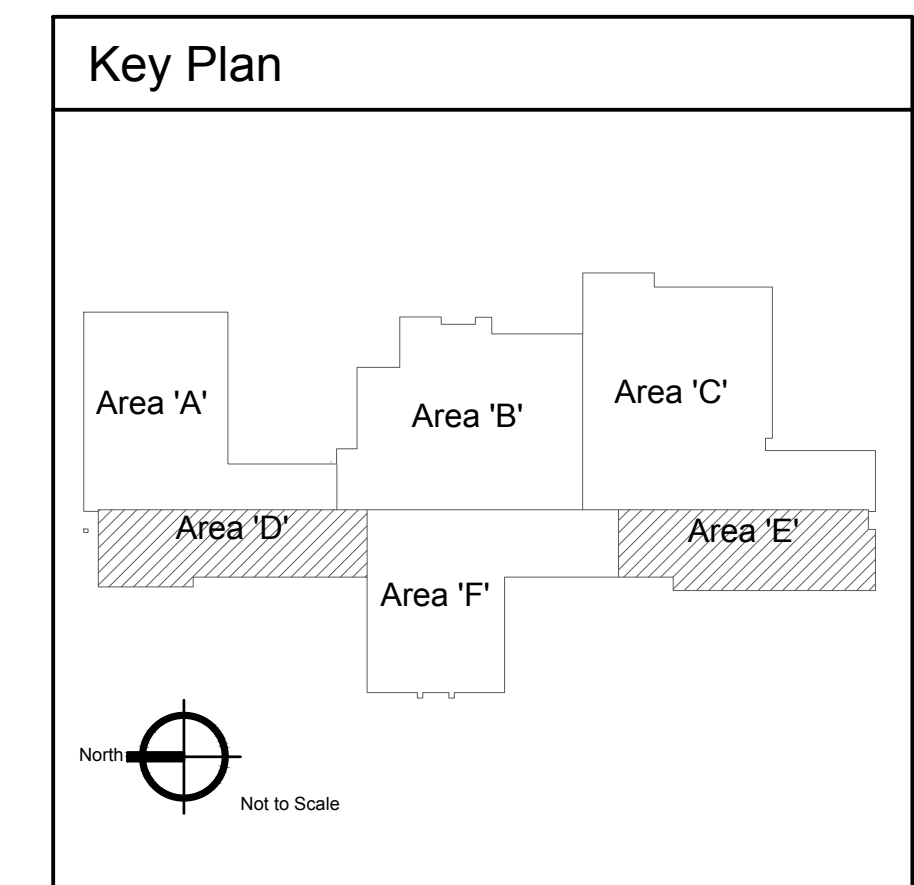
E-4.3



1 Lighting Plan - Area 'D'
Scale: 1/8" = 1'-0"



2 Lighting Plan - Area 'E'
Scale: 1/8" = 1'-0"



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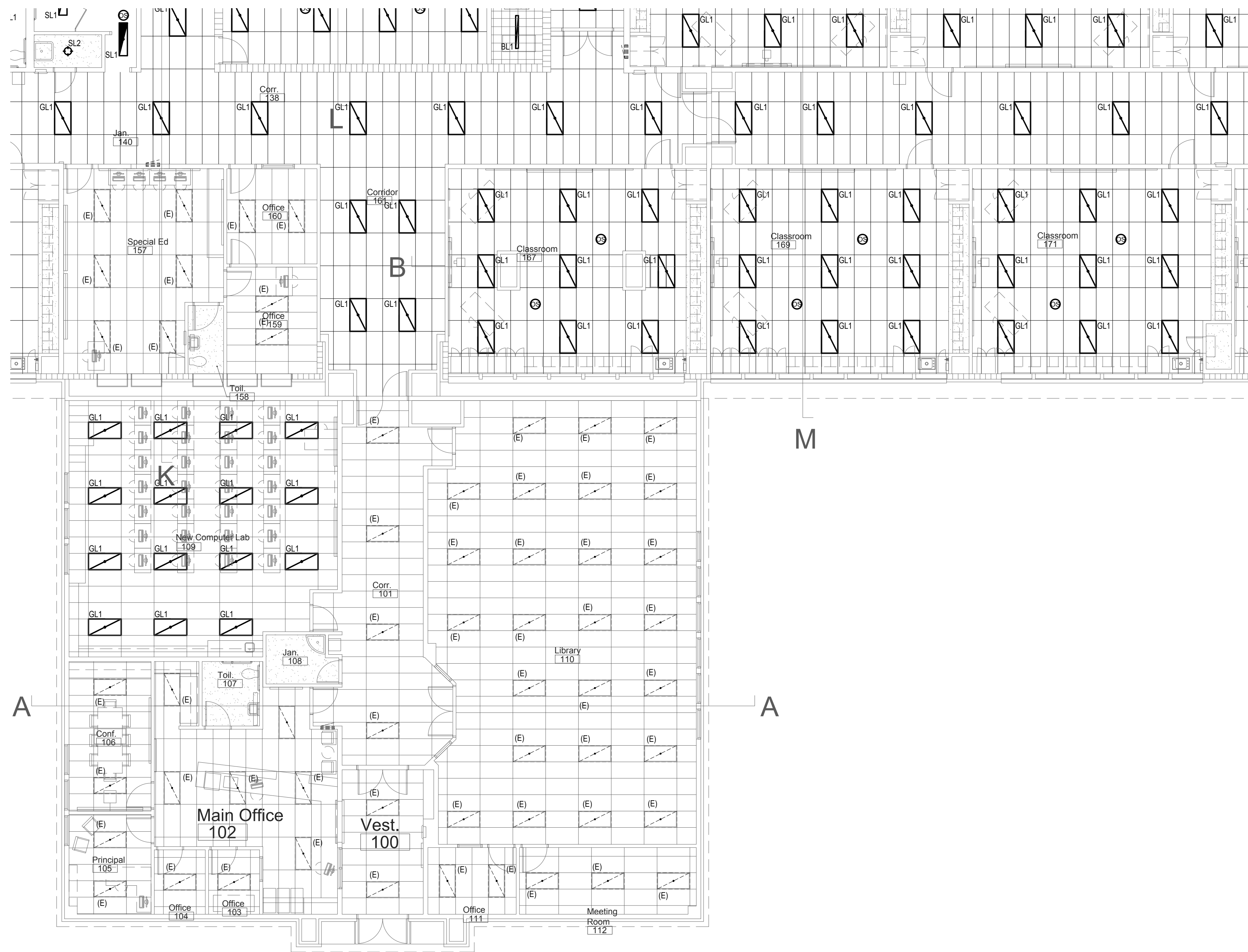
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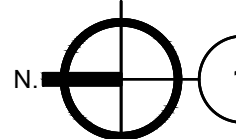
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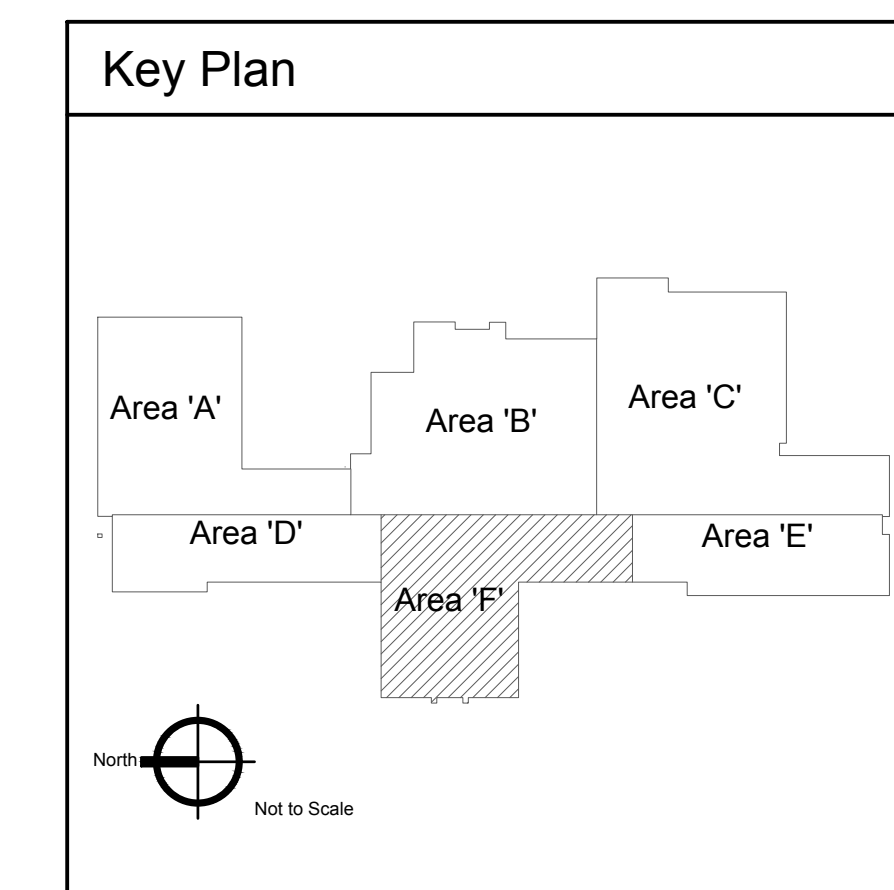
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E-4.4




1 Lighting Plan - Area 'F'
 Scale: 1/8" = 1'-0"



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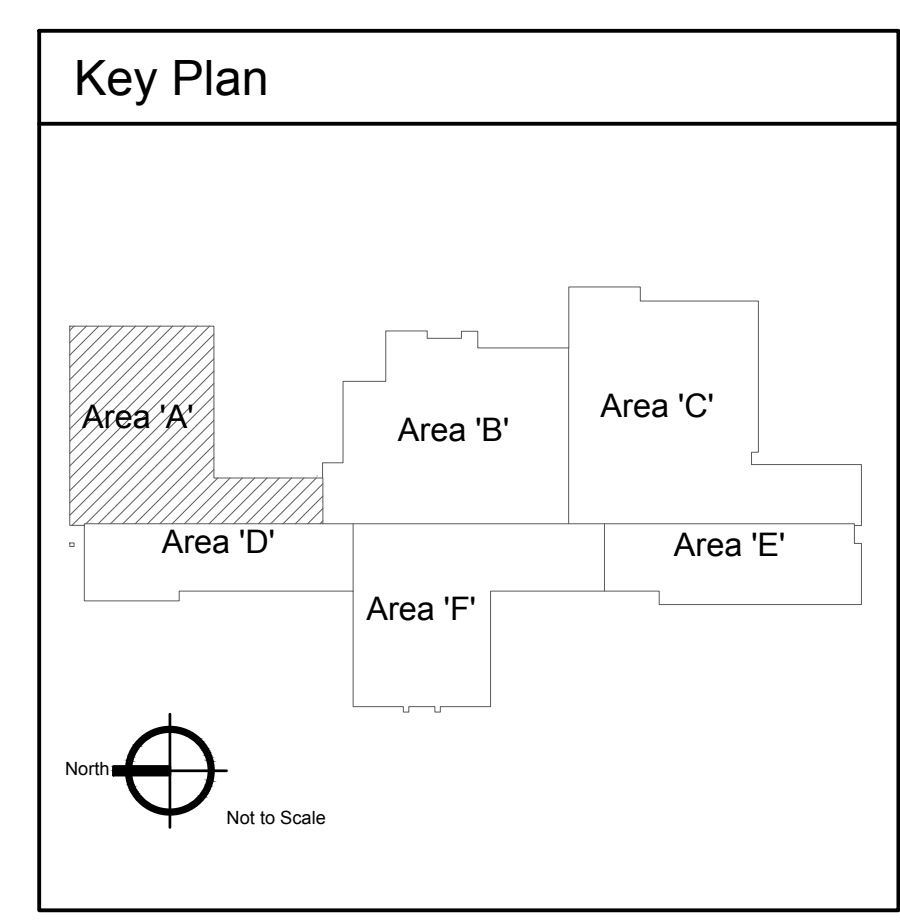
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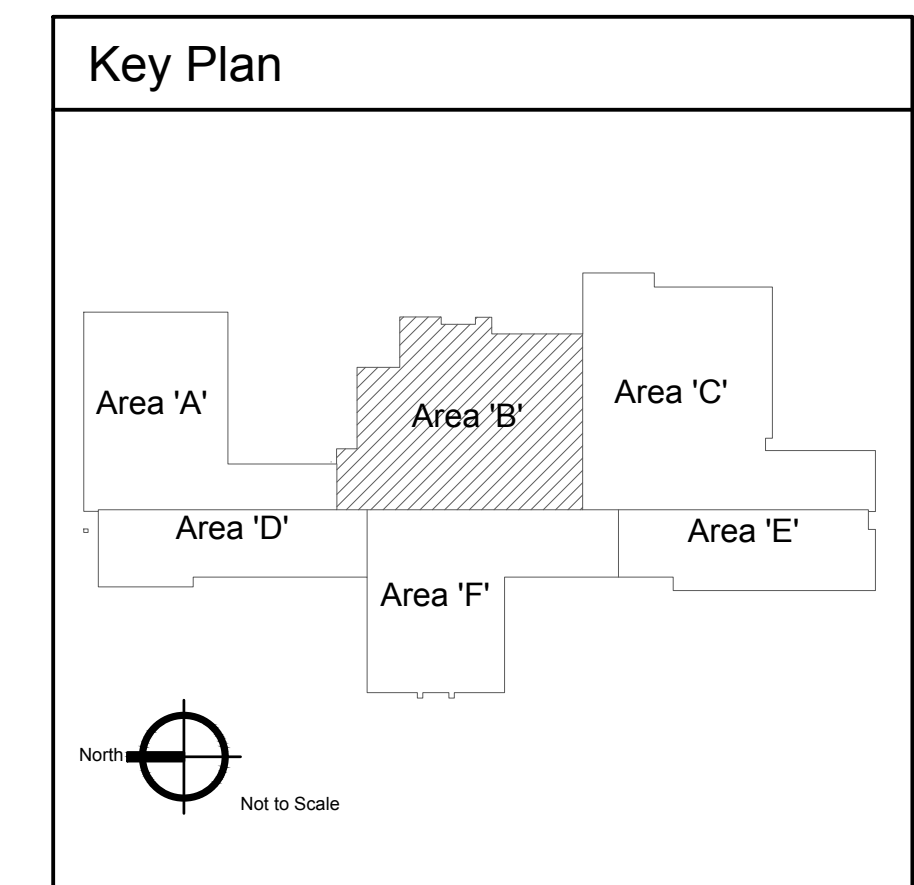


1 Mechanical Power Plan - Area 'A'
 Scale: 1/8" = 1'-0"





1 Mechanical Power Plan - Area 'B'
Scale: 1/8" = 1'-0"



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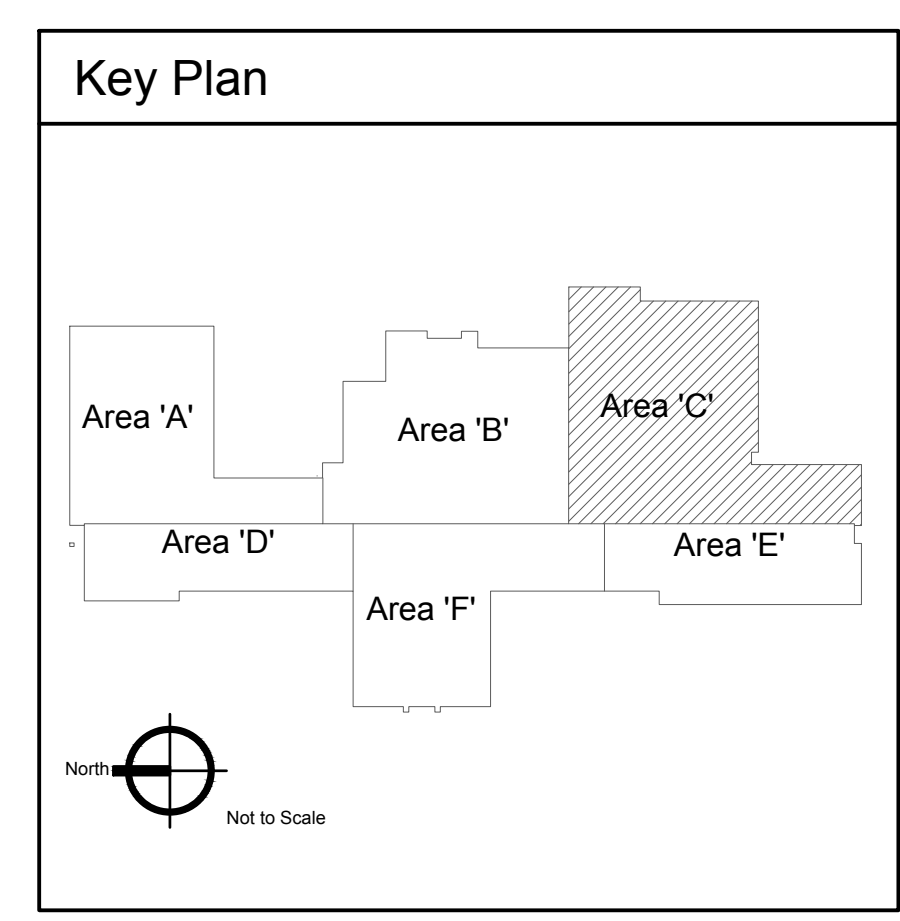
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E-6.2



1 Mechanical Power Plan - Area 'C'
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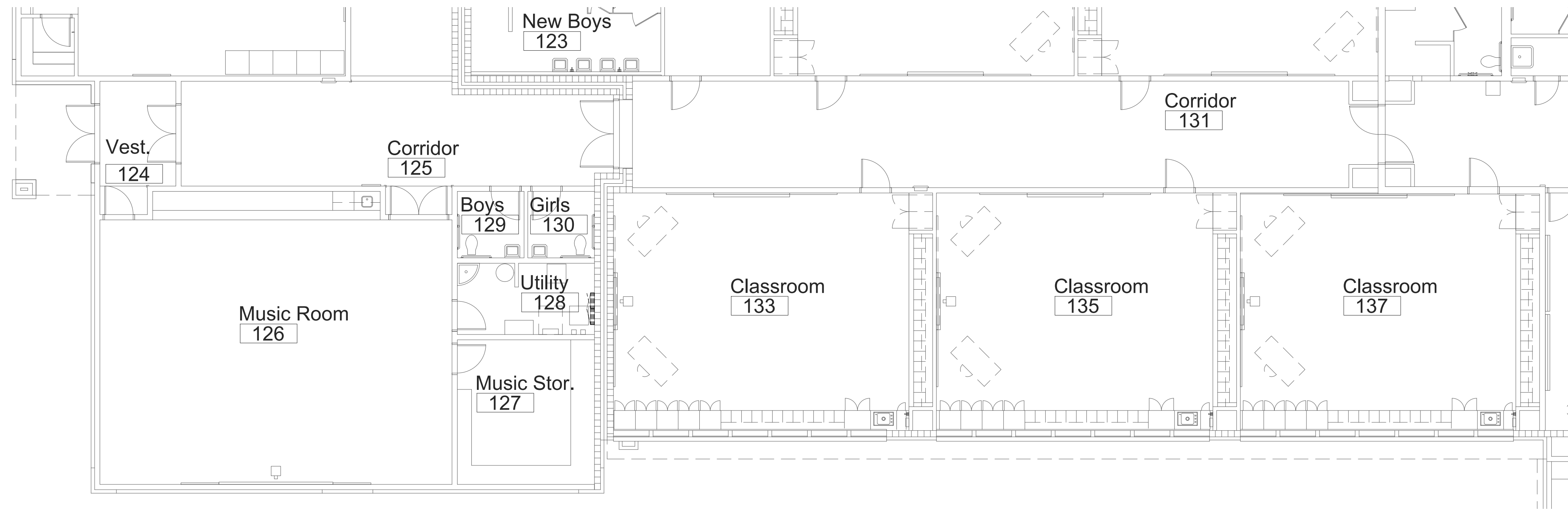
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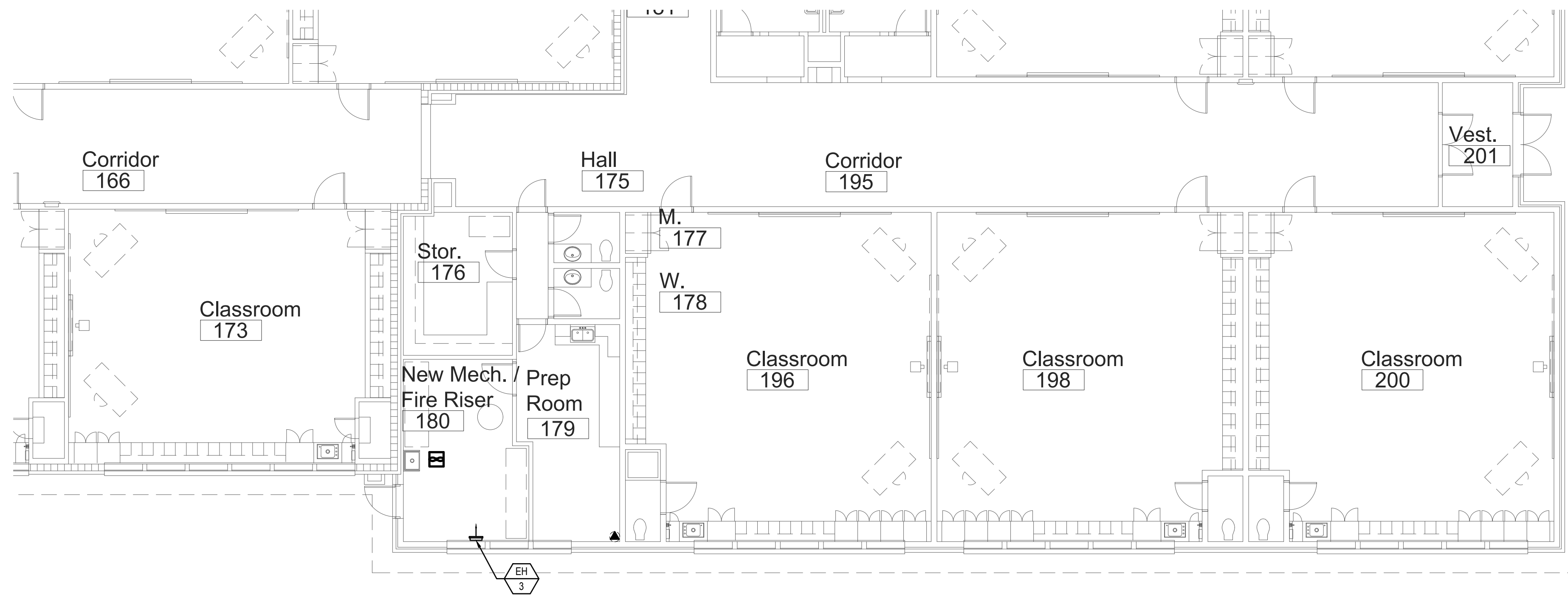
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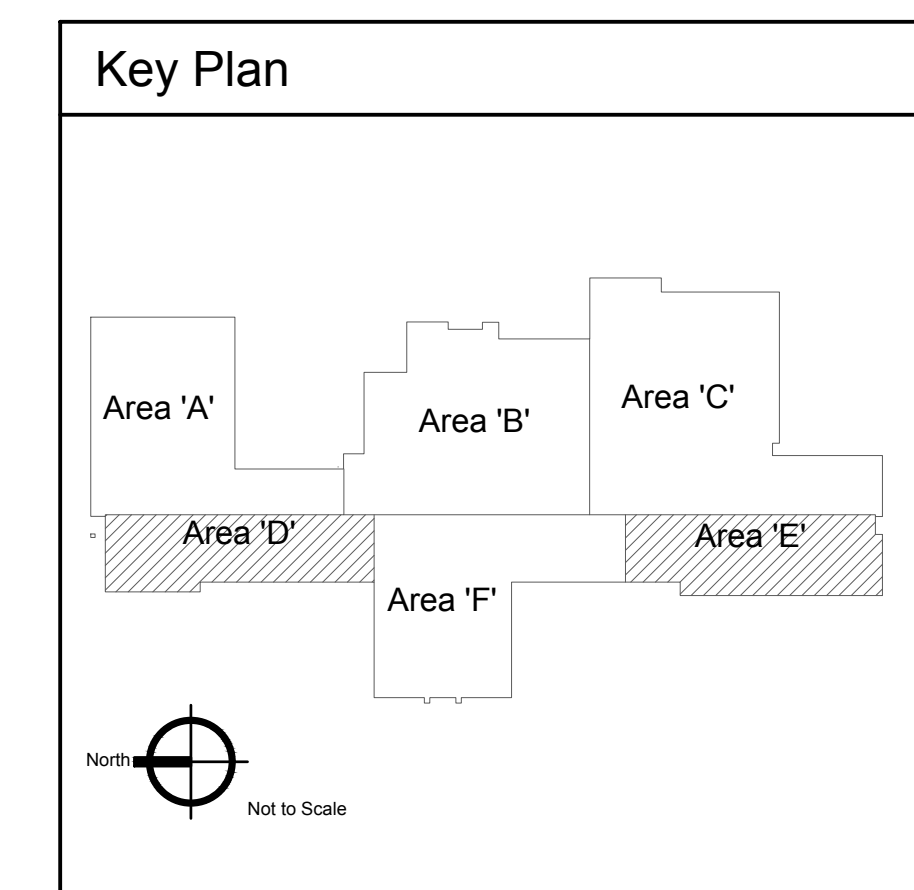
E-6.3



1 Mechanical Power Plan - Area 'D'
Scale: 1/8" = 1'-0"



2 Mechanical Power Plan - Area 'E'
Scale: 1/8" = 1'-0"



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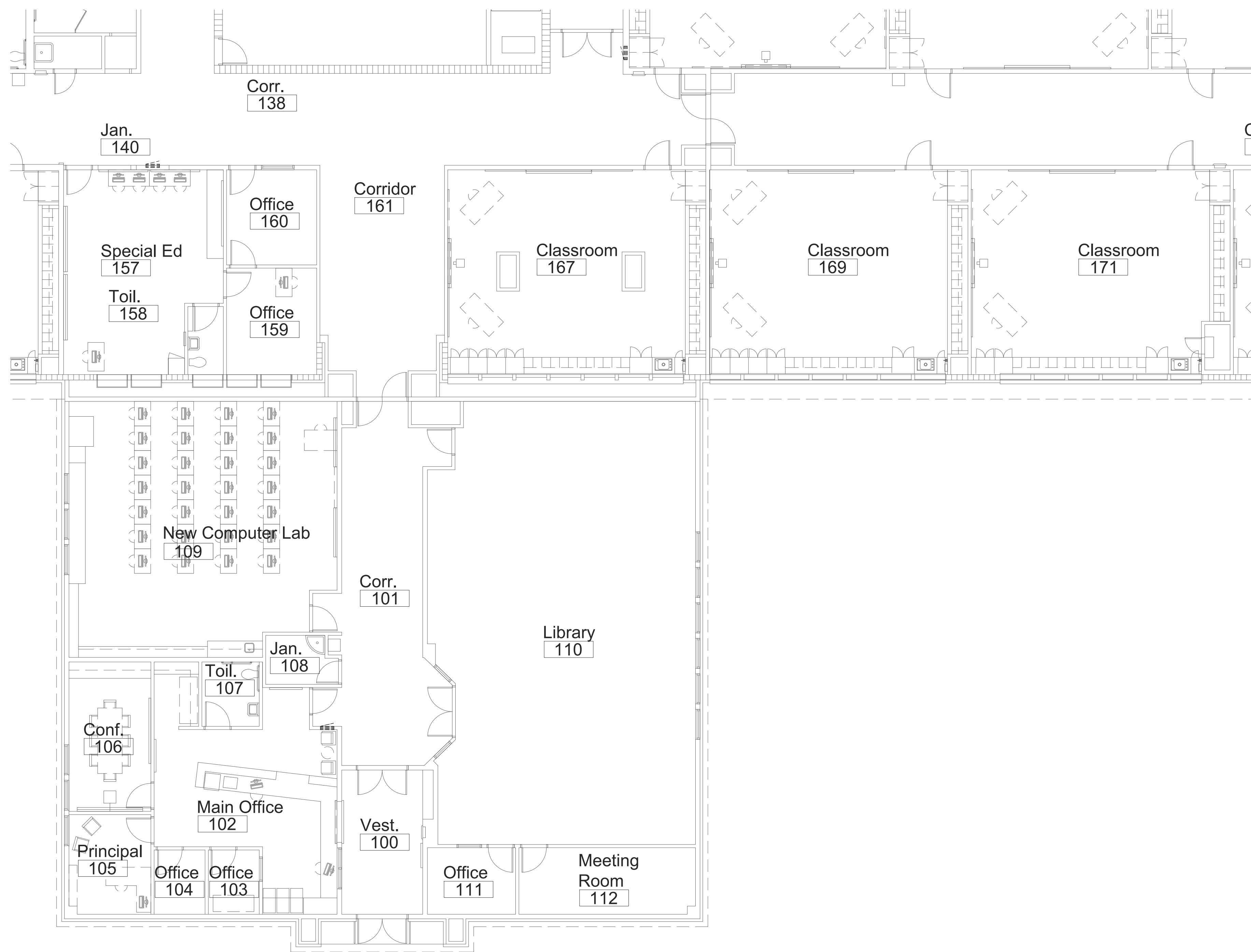
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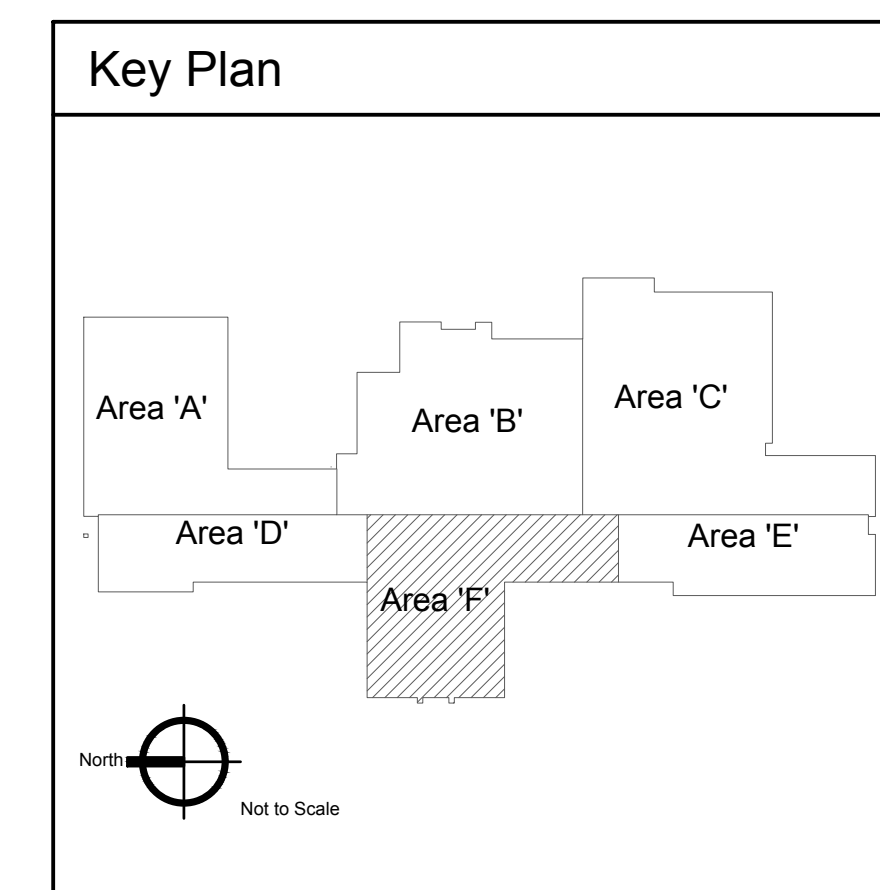
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1 Mechanical Power Plan - Area 'F'
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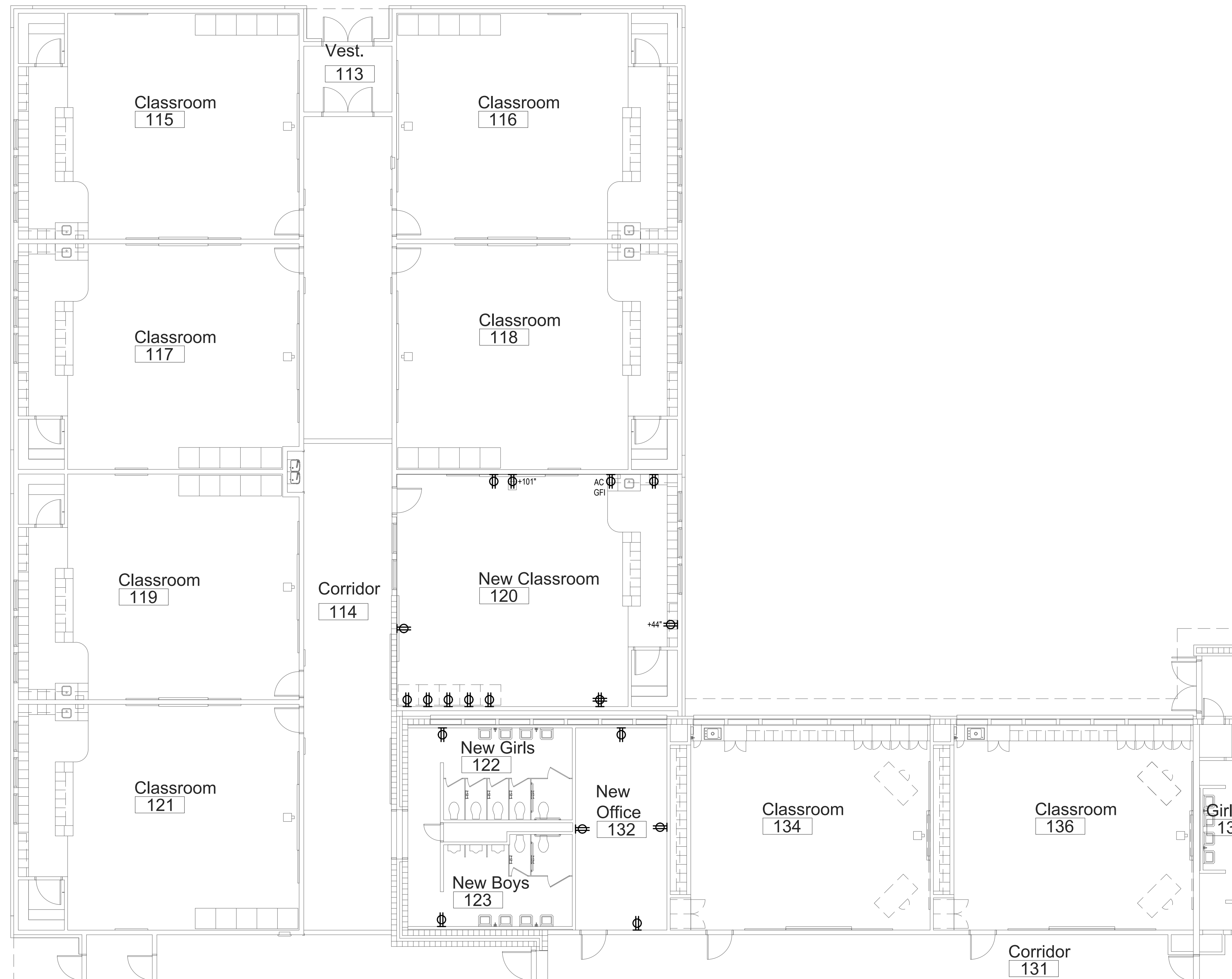
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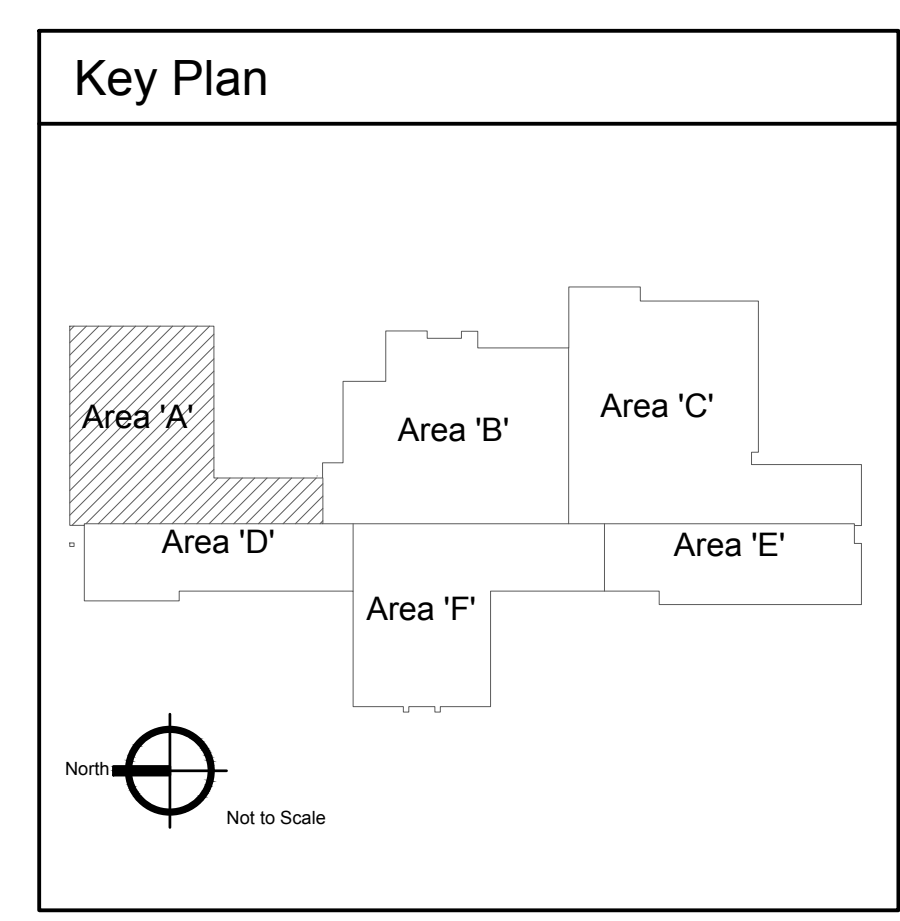
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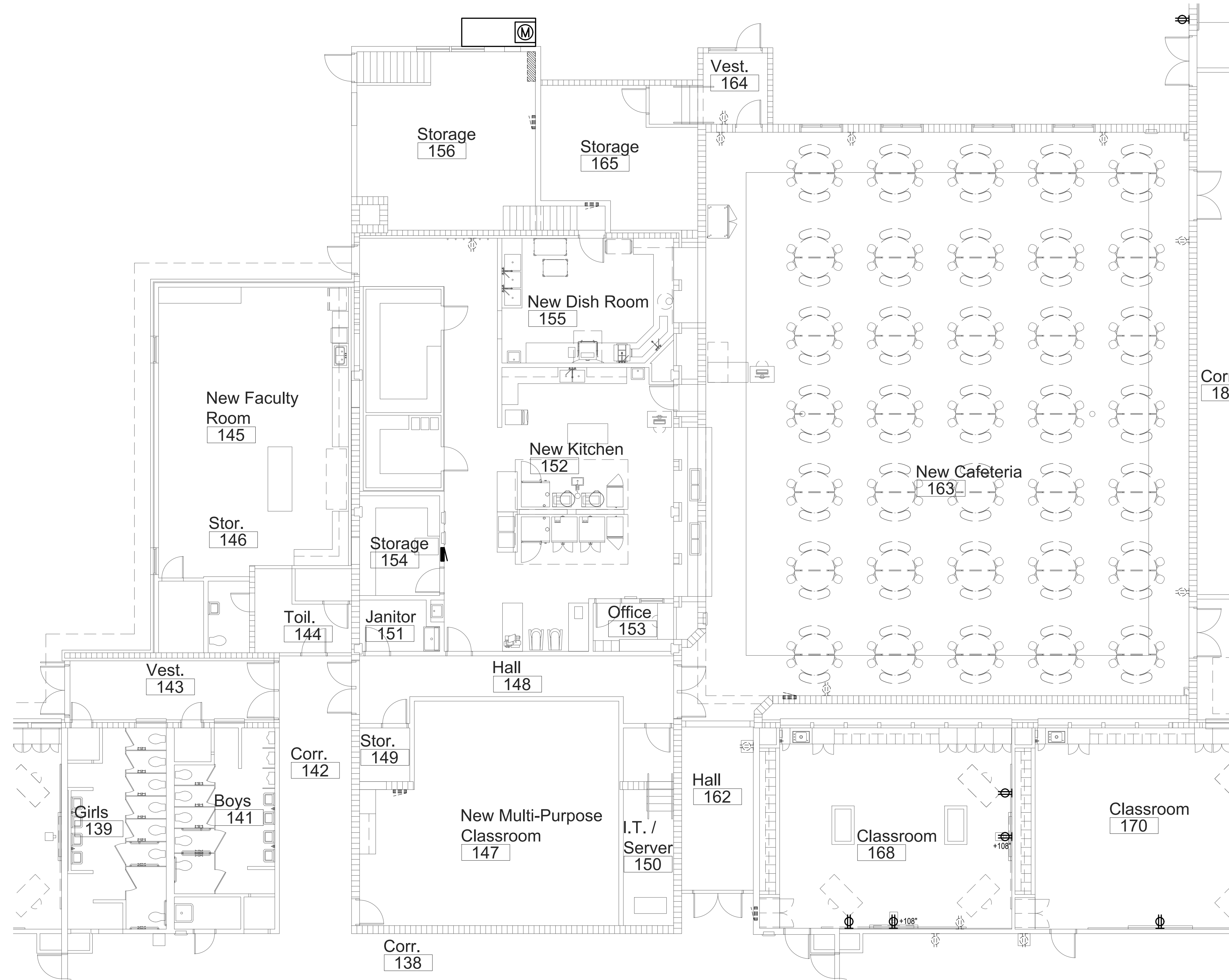
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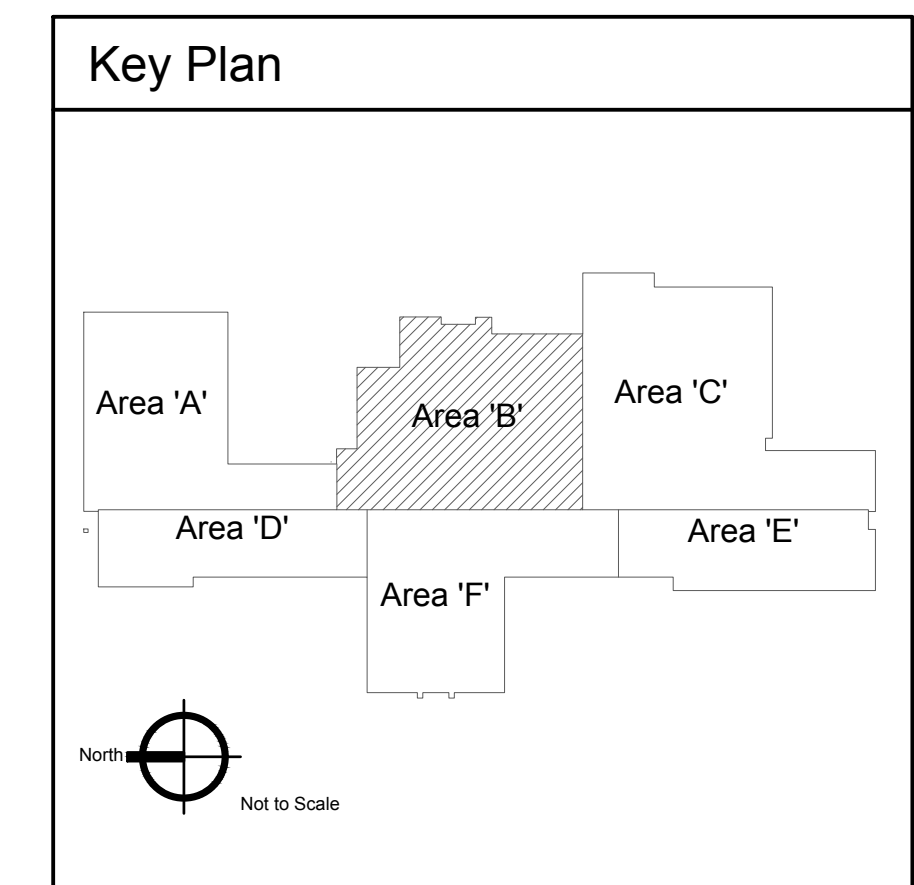


1 Power Plan - Area 'A'
Scale: 1/8" = 1'-0"

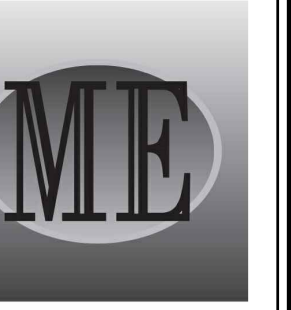




1 Power Plan - Area 'B'
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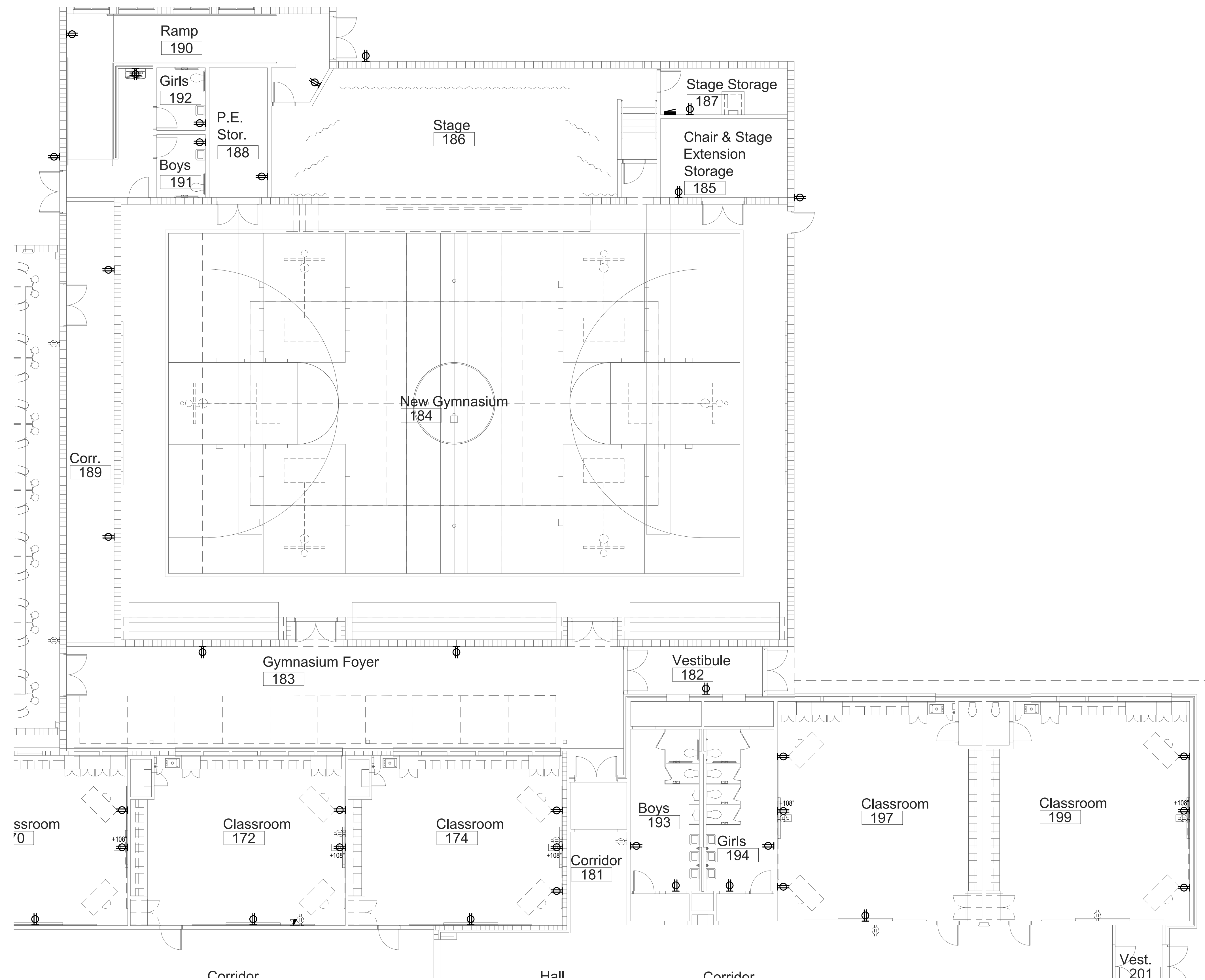
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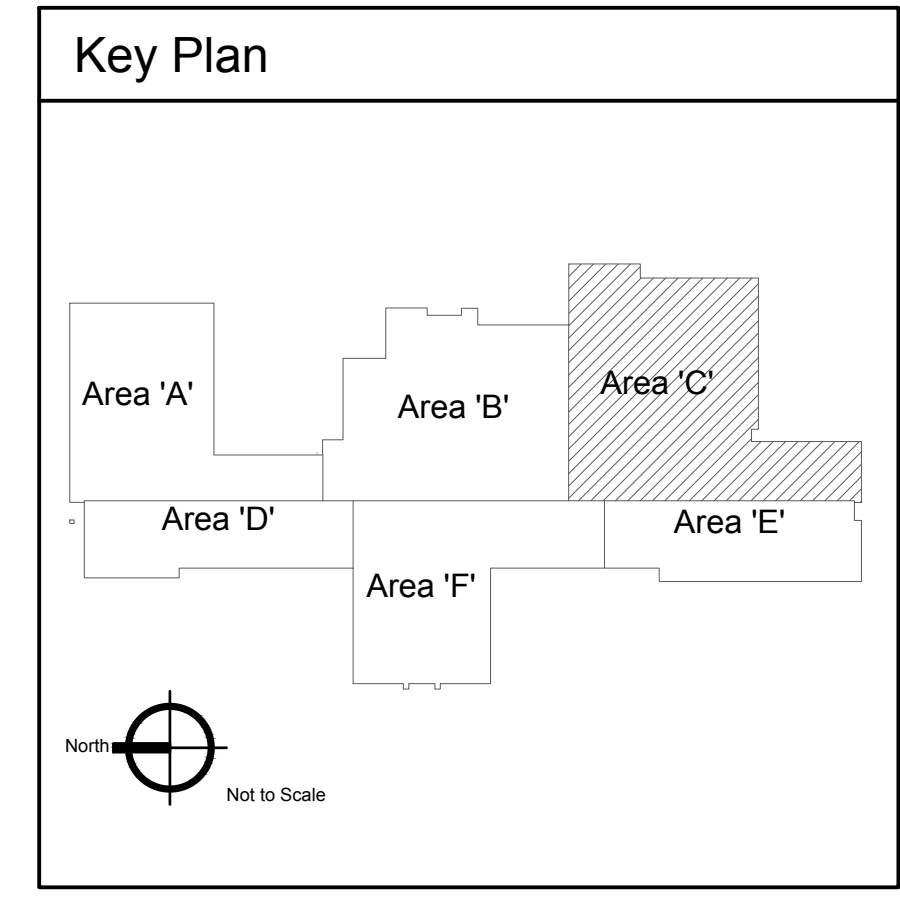
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Power Plan - Area 'C'
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 OVER 40 YEARS OF EXCELLENCE
 Project No. 22-104

PRELIMINARY



Jefferson Elementary School
 Addition and Remodel

600 N. Fillmore Street, Jerome, Idaho

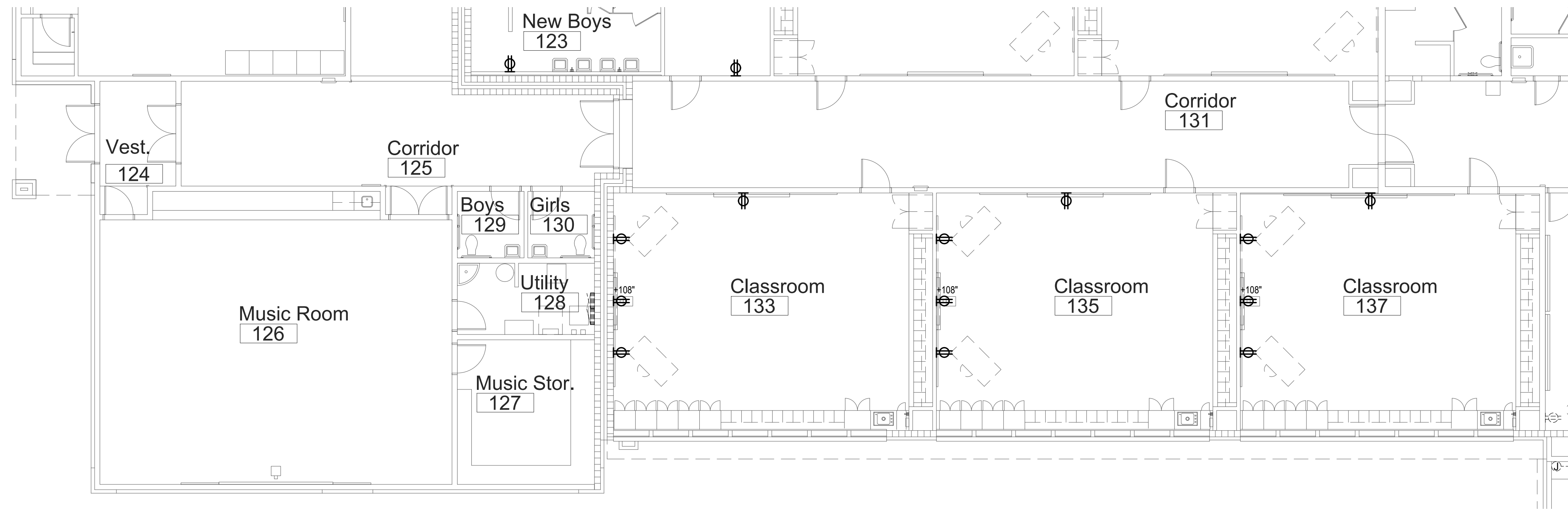
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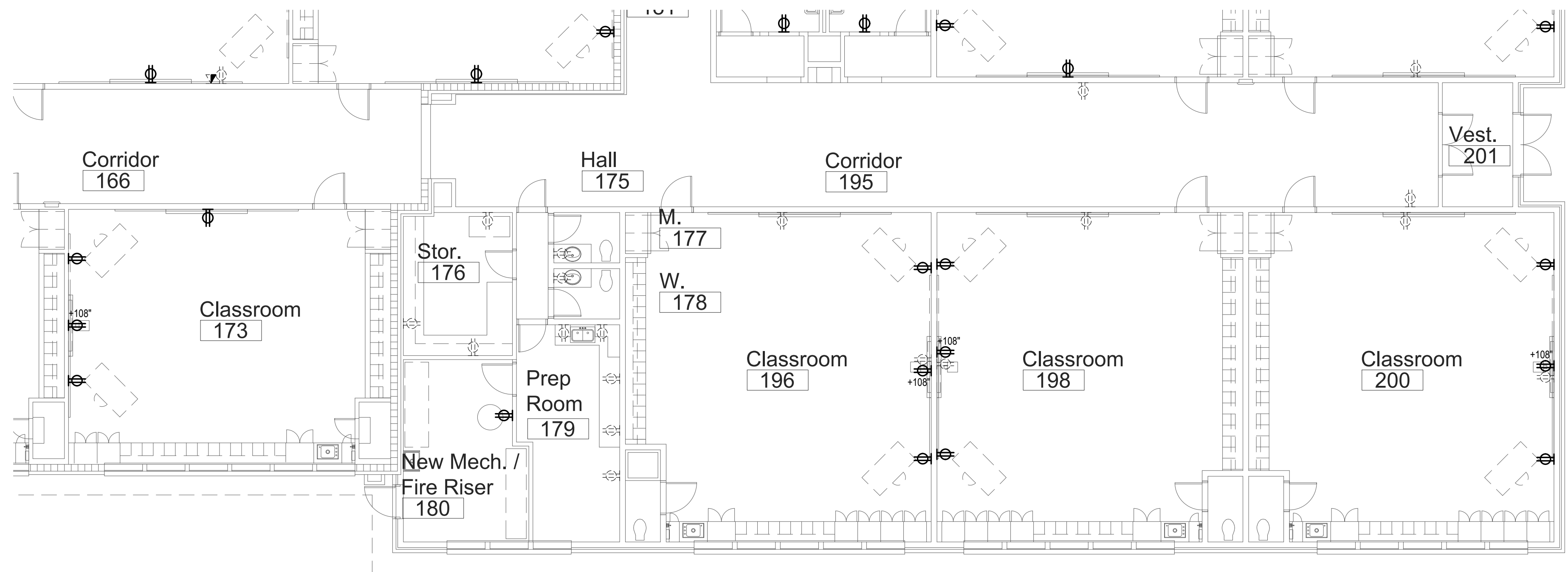
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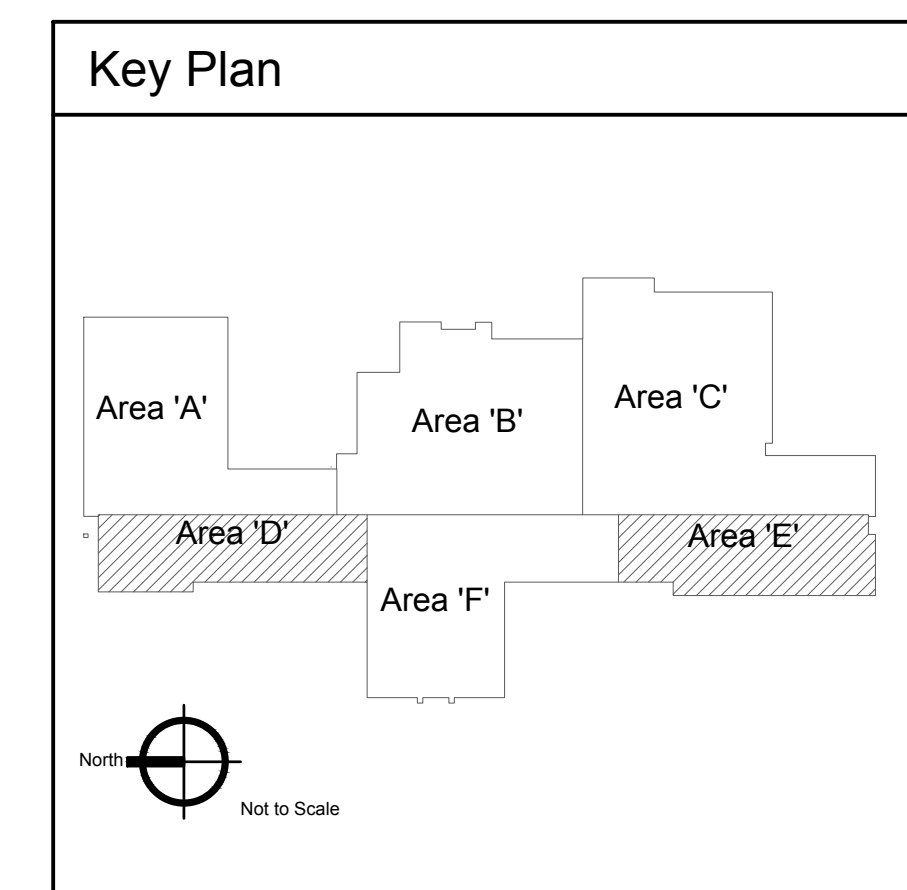
E-5.3



1 Power Plan - Area 'D'
Scale: 1/8" = 1'-0"



2 Power Plan - Area 'E'
Scale: 1/8" = 1'-0"



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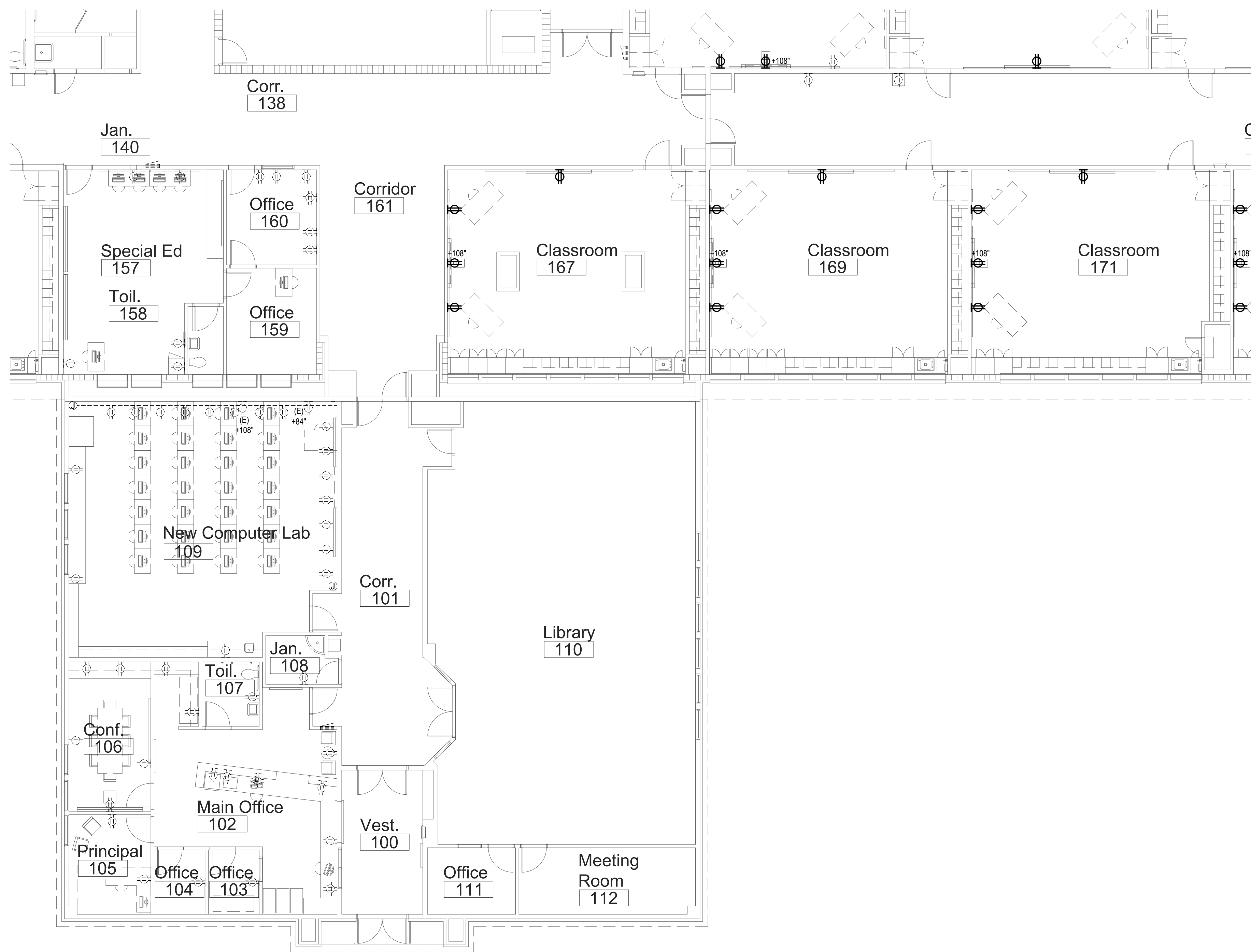
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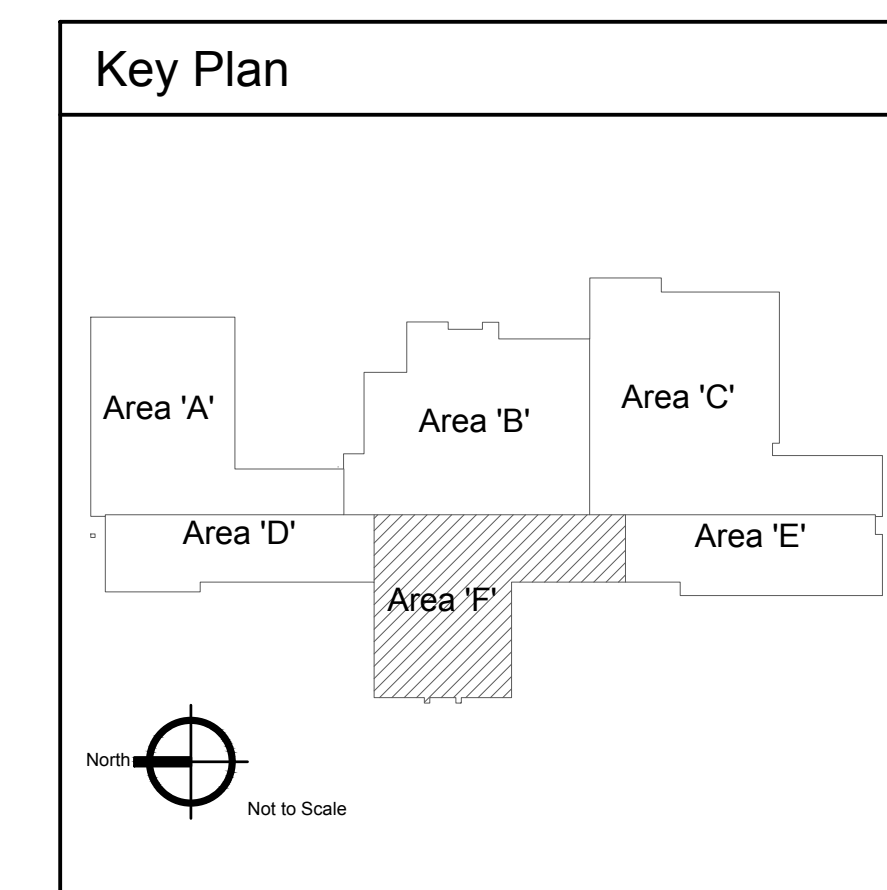
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1 Power Plan - Area 'F'
Scale: 1/8" = 1'-0"



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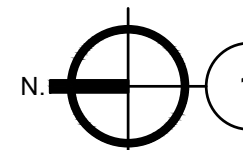
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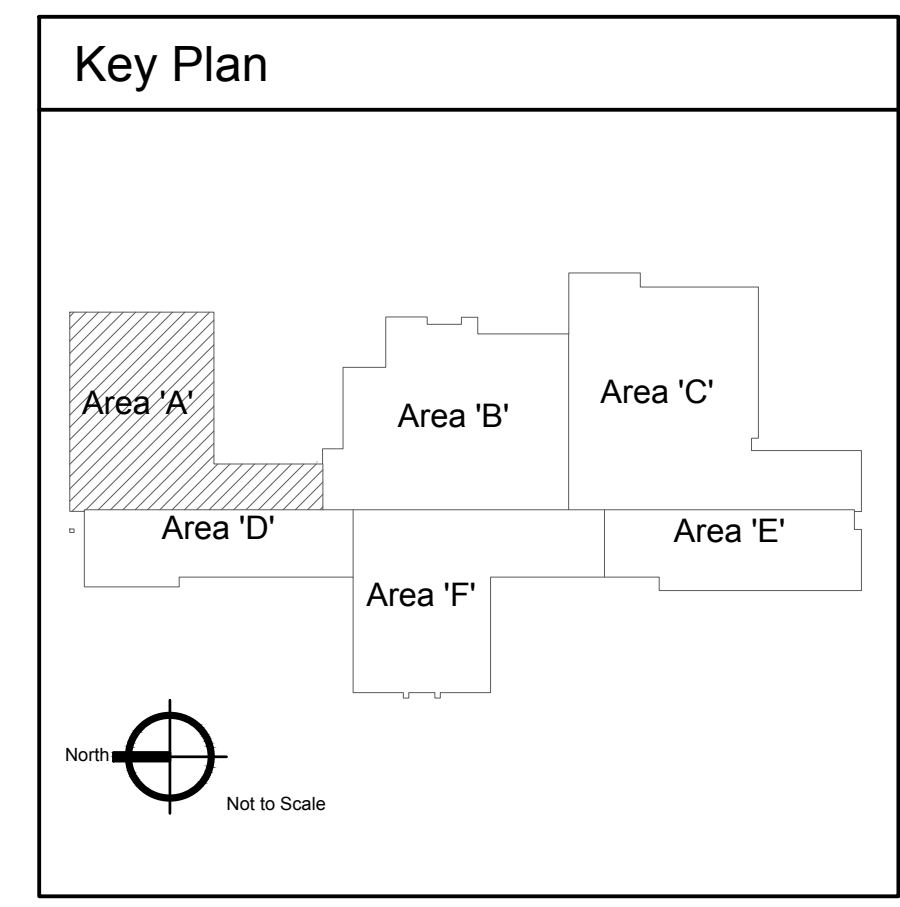
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E-5.5

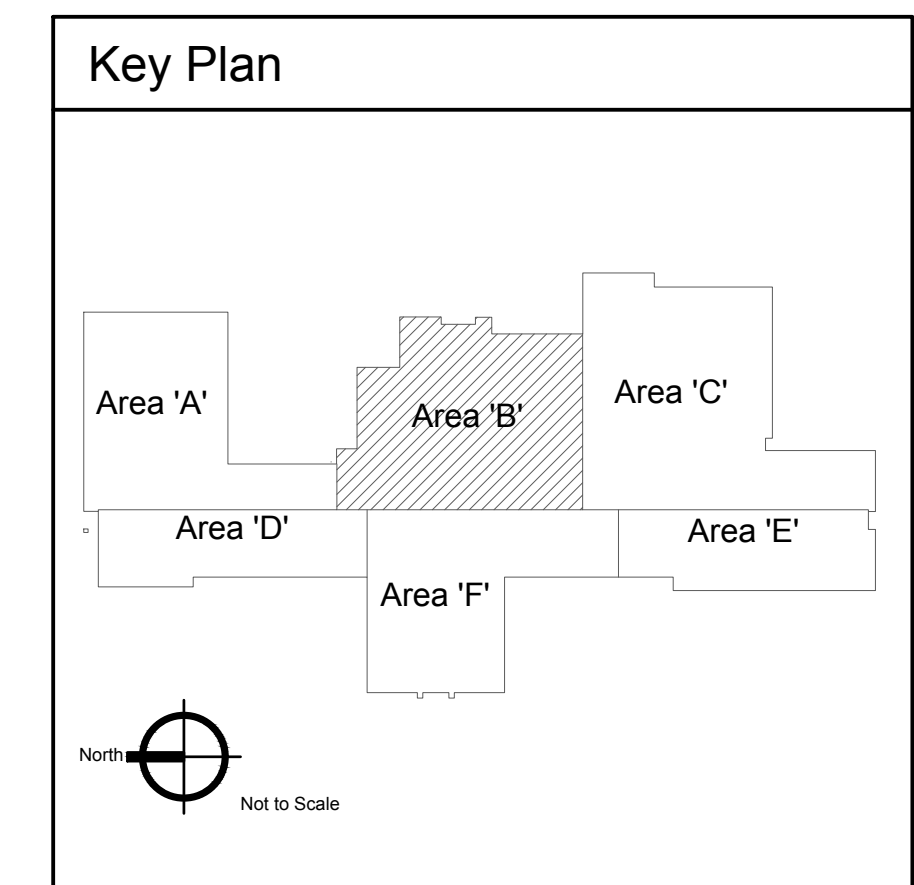



1 Special Systems Plan - Area 'A'
 Scale: 1/8" = 1'-0"

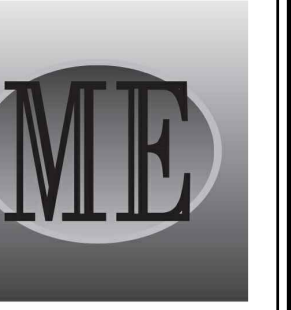




1 Special Systems Plan - Area 'B'
Scale: 1/8" = 1'-0"



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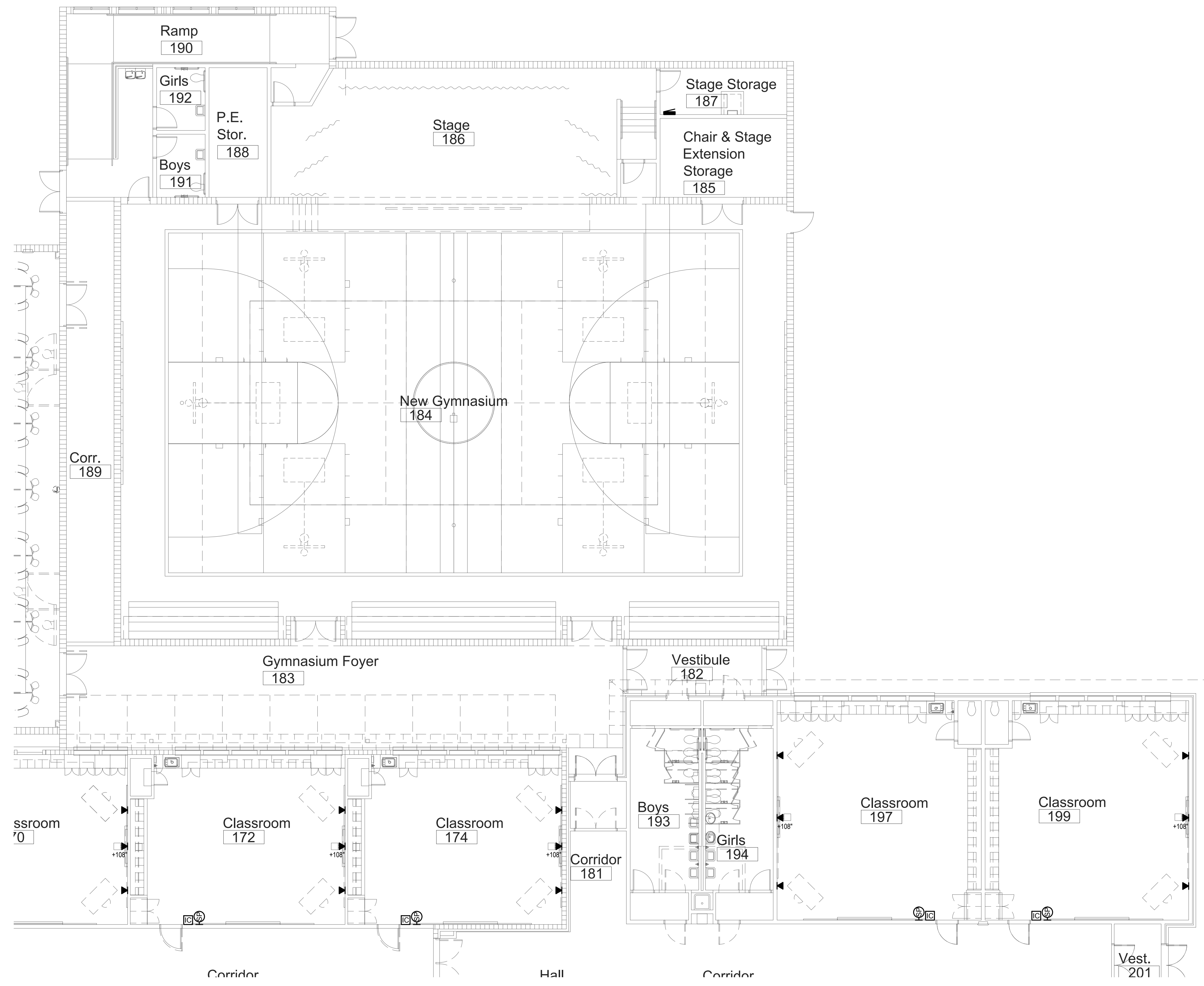
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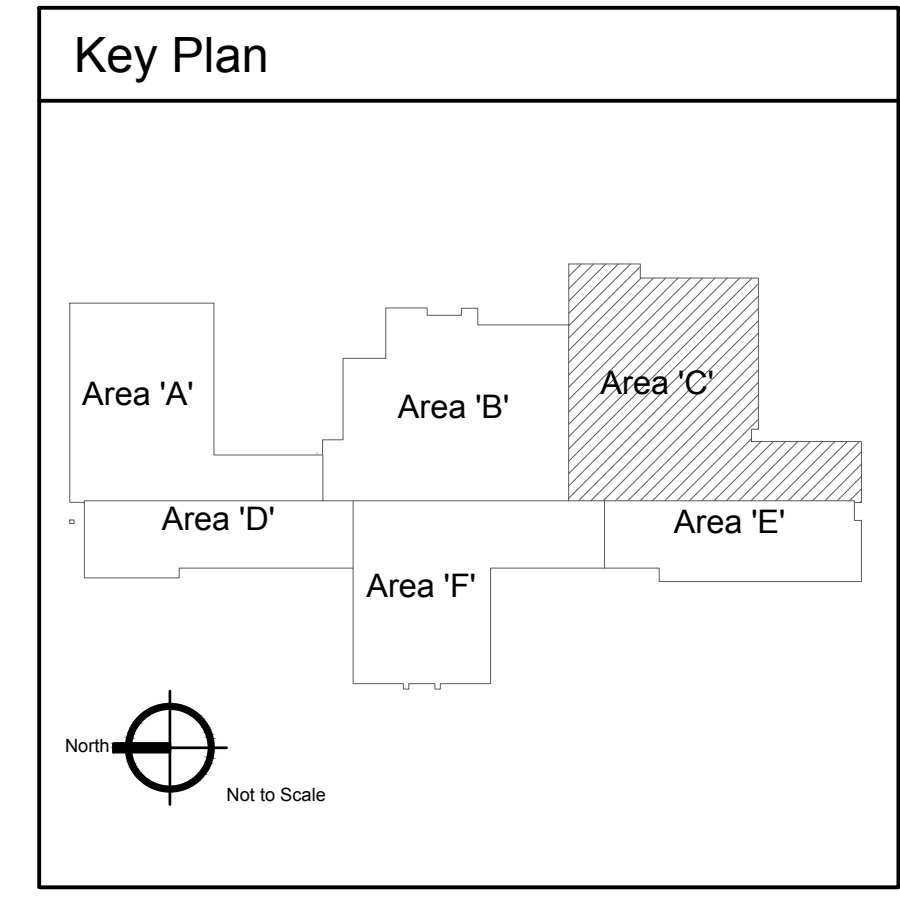
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E-7.2



1 Special Systems Plan - Area 'C'
 Scale: 1/8" = 1'-0"



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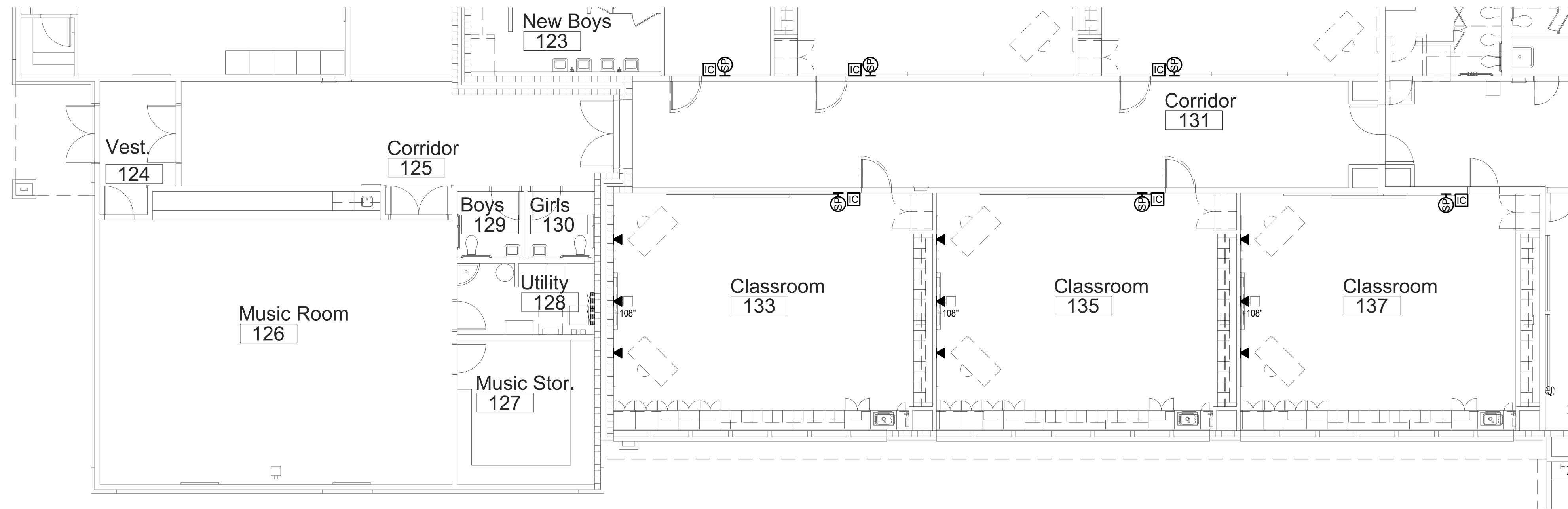
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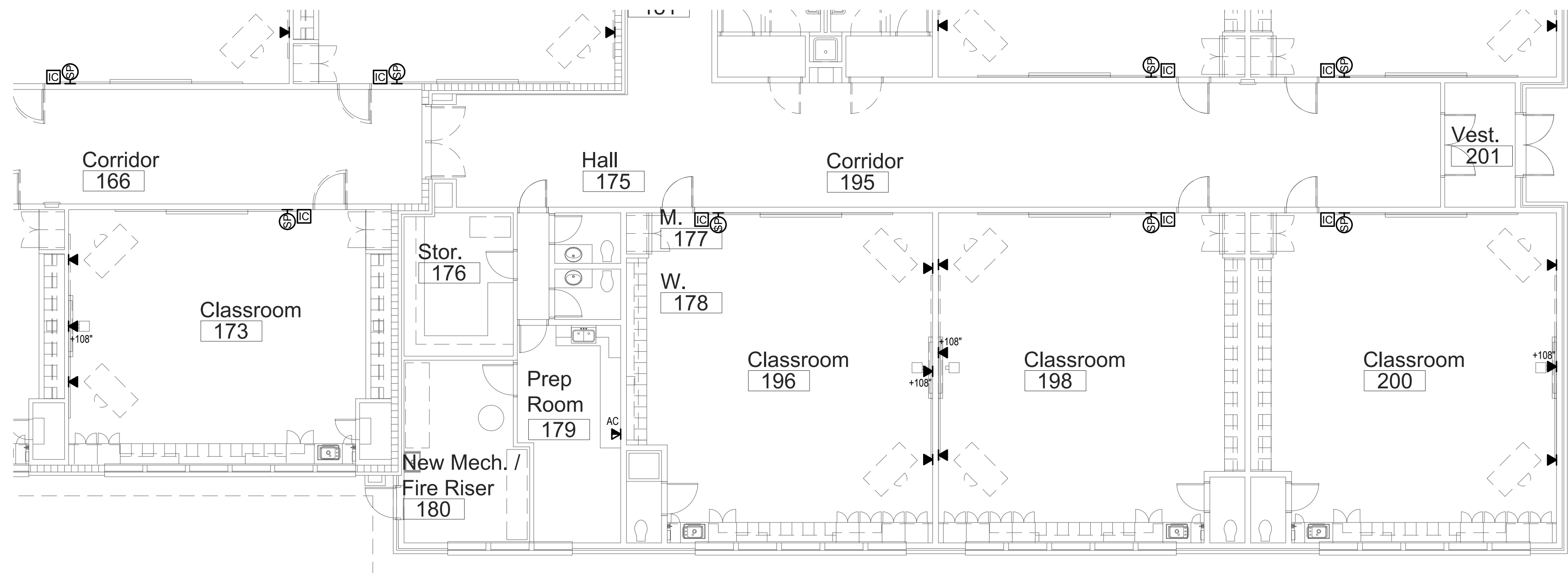
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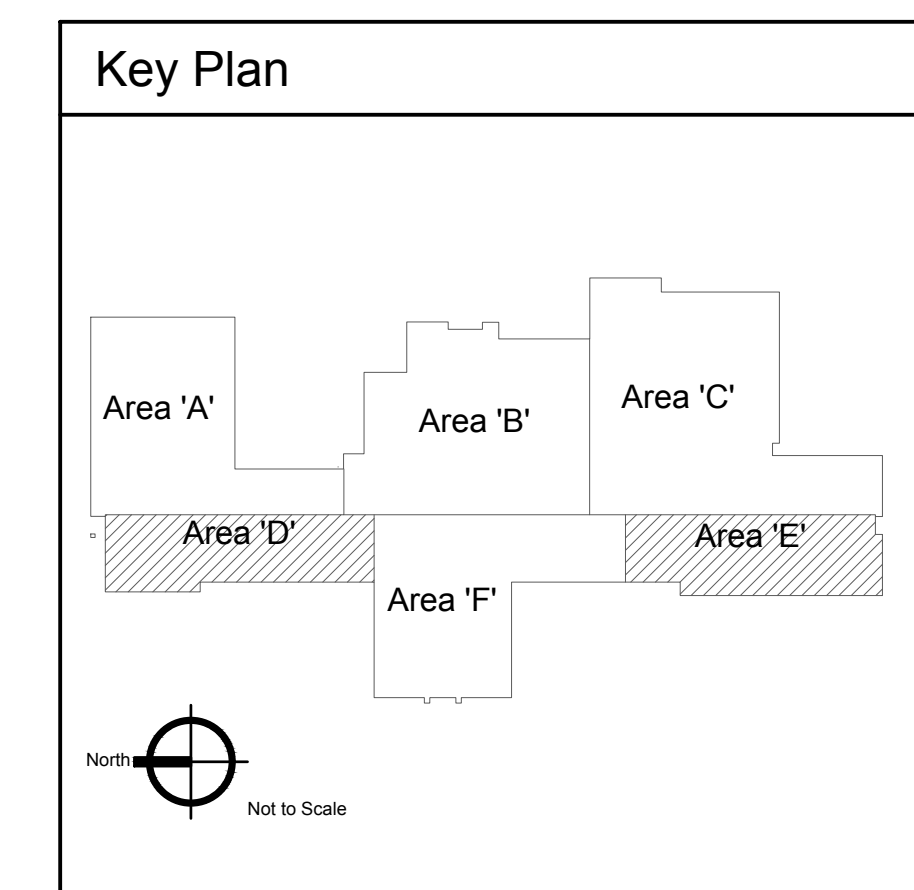
E-7.3



1 Special Systems Plan - Area 'D'
Scale: 1/8" = 1'-0"



2 Special Systems Plan - Area 'E'
Scale: 1/8" = 1'-0"



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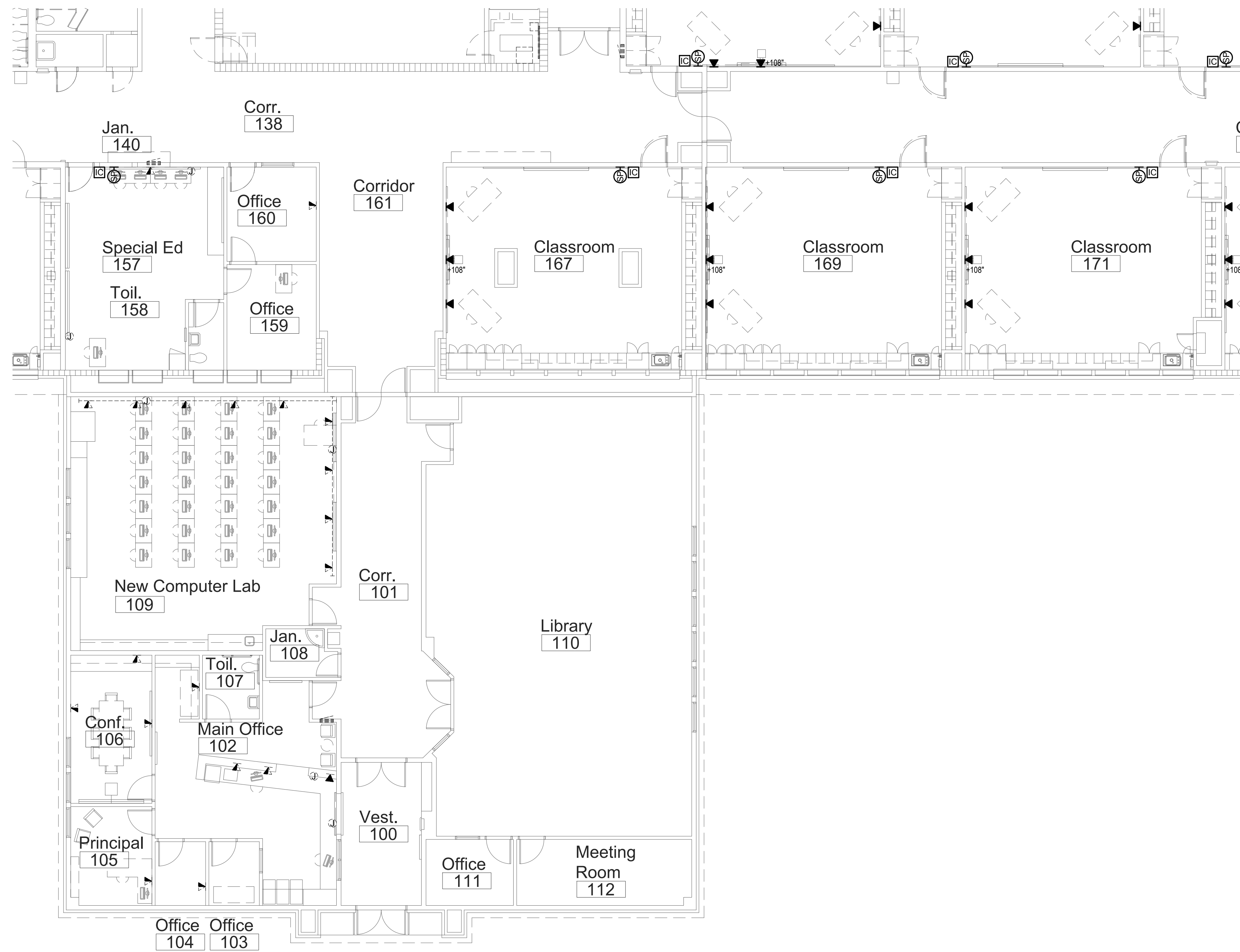
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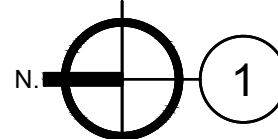
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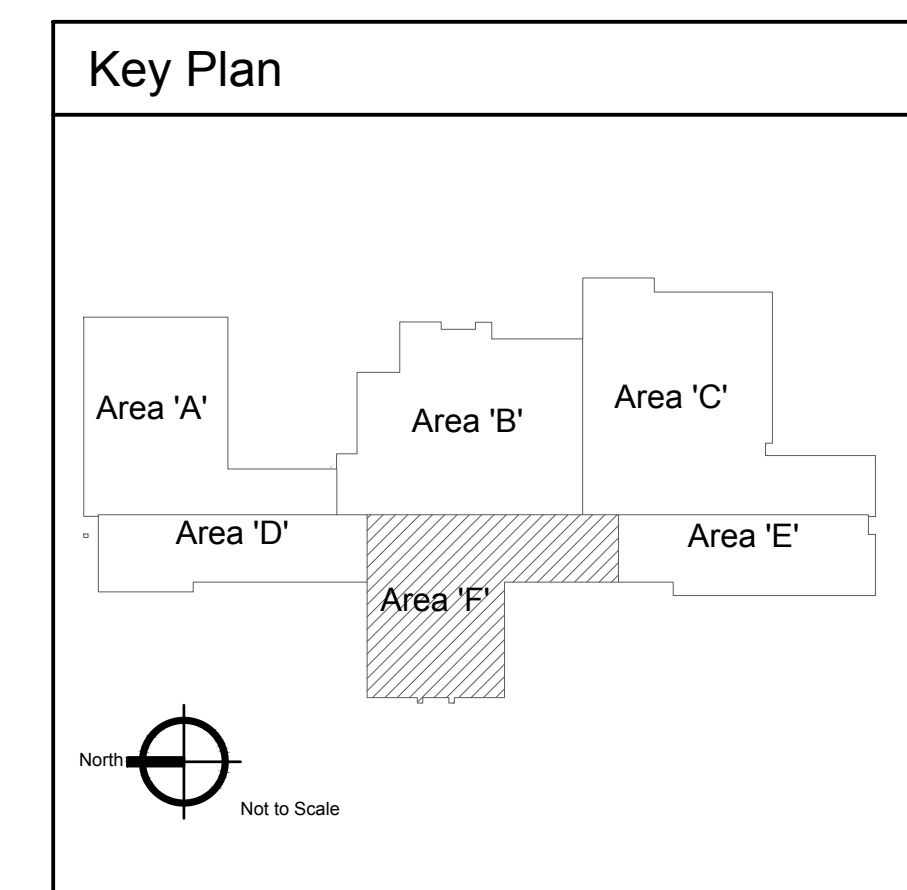
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E-7.4




Special Systems Plan - Area 'F'
 Scale: 1/8" = 1'-0"



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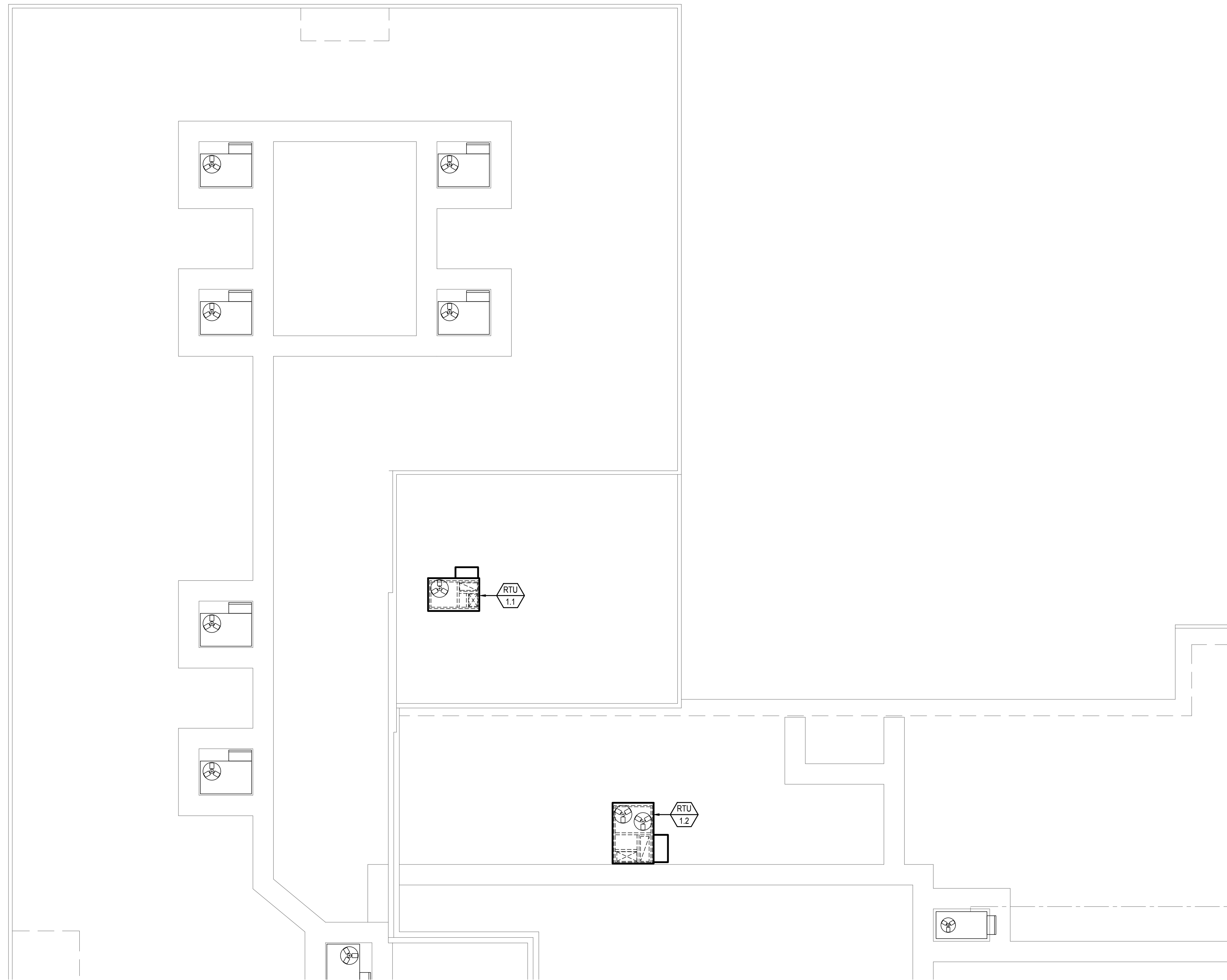
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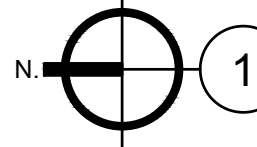
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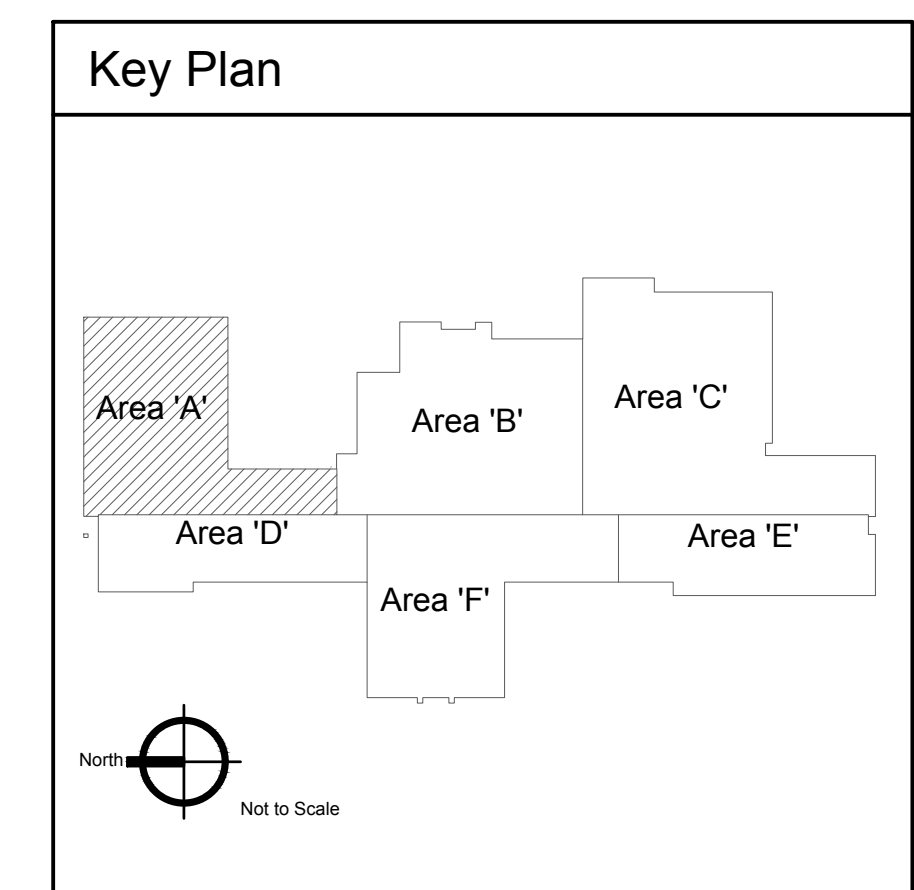
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E-7.5




1 Electrical Roof Plan - Area 'A'
 Scale: 1/8" = 1'-0"



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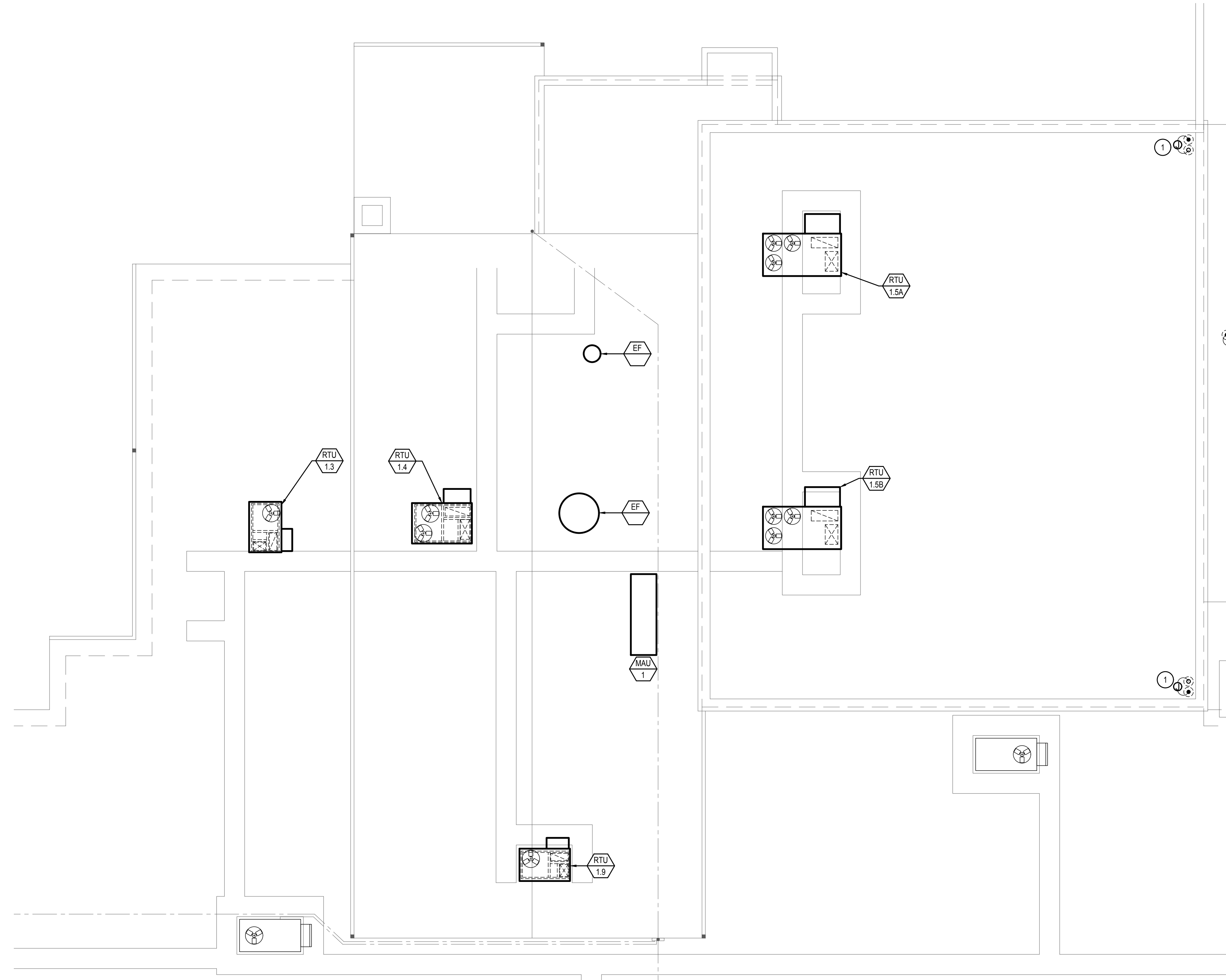
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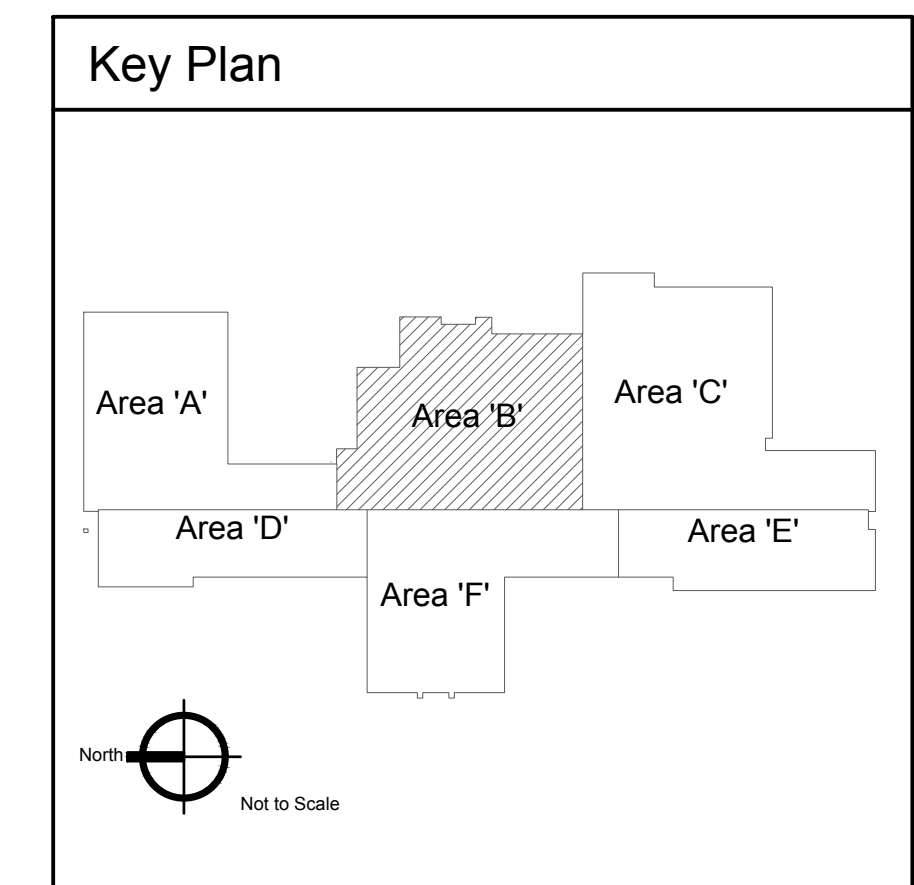
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E-8.1



1 Electrical Roof Plan - Area 'B'
Scale: 1/8" = 1'-0"



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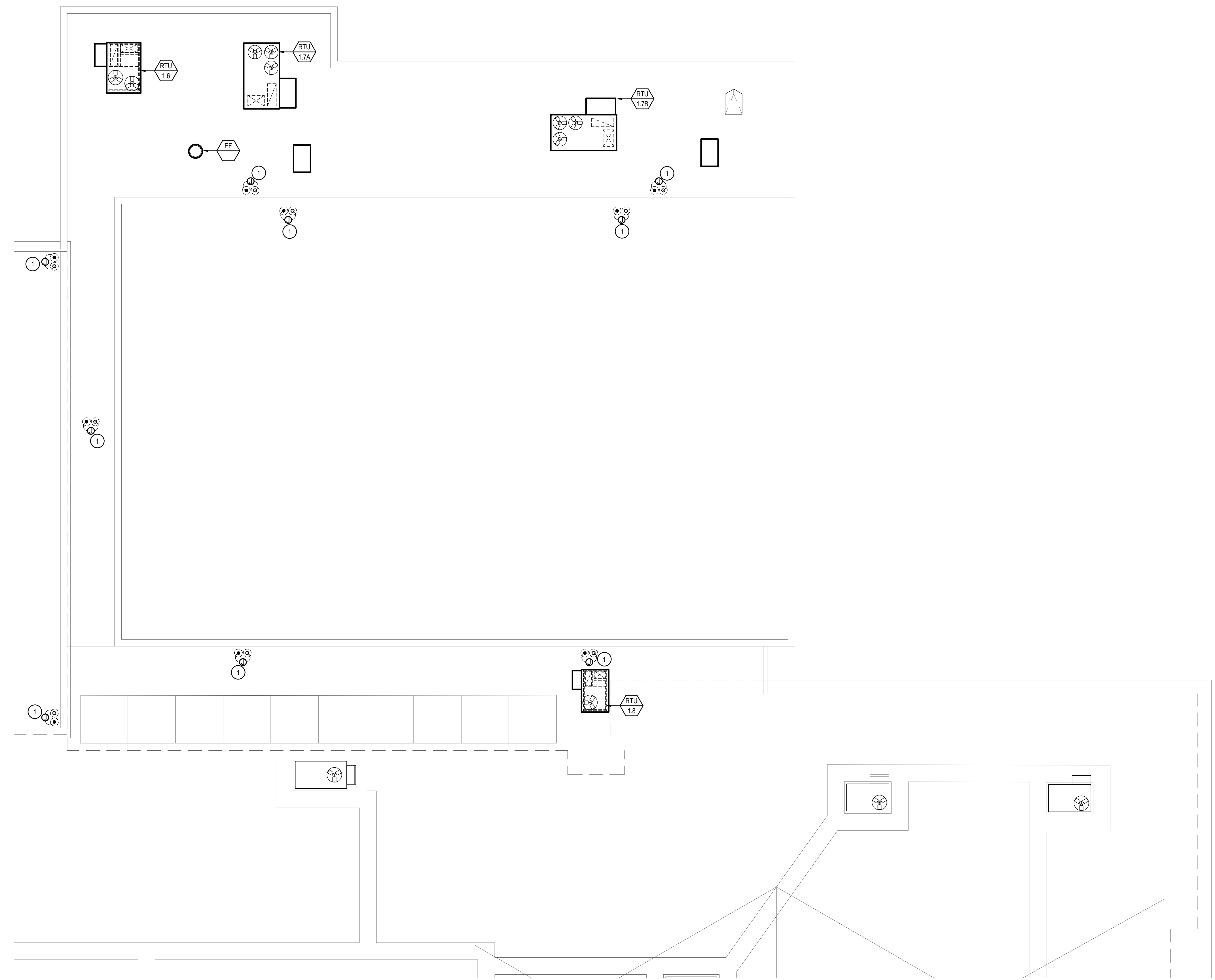
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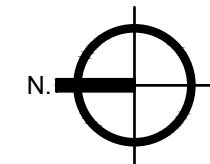
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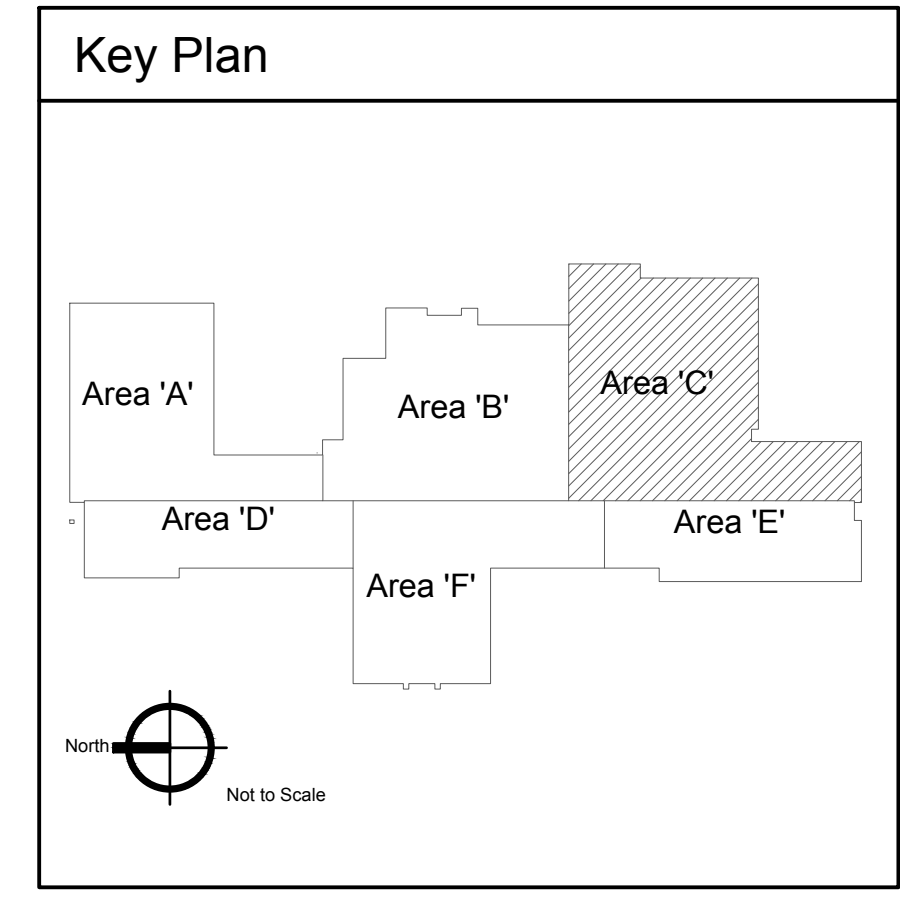
E-8.2




1 Electrical Roof Plan - Area 'C'
 Scale: 1/8" = 1'-0"

KEYED NOTES:

- ⊕ SYMBOL USED FOR NOTE CALLOUT.
- 1. HEAT TAPE LOCATED ON ROOF. VERIFY EXACT LOCATION WITH OWNER. WRAP HEAT TAPE AROUND ROOF DRAIN AND OVERFLOW DRAIN DOWNSPOUT. EXTEND HEAT TAPE 4' DOWN THE DRAINPIPE. MAKE ALL CONNECTIONS. RE:HEAT TAPE DETAIL.
- 2. MOUNT RECEPTACLE ON RIGID CONDUIT 12" ABOVE ROOF DECK OR ON MECHANICAL UNIT WHERE APPLICABLE



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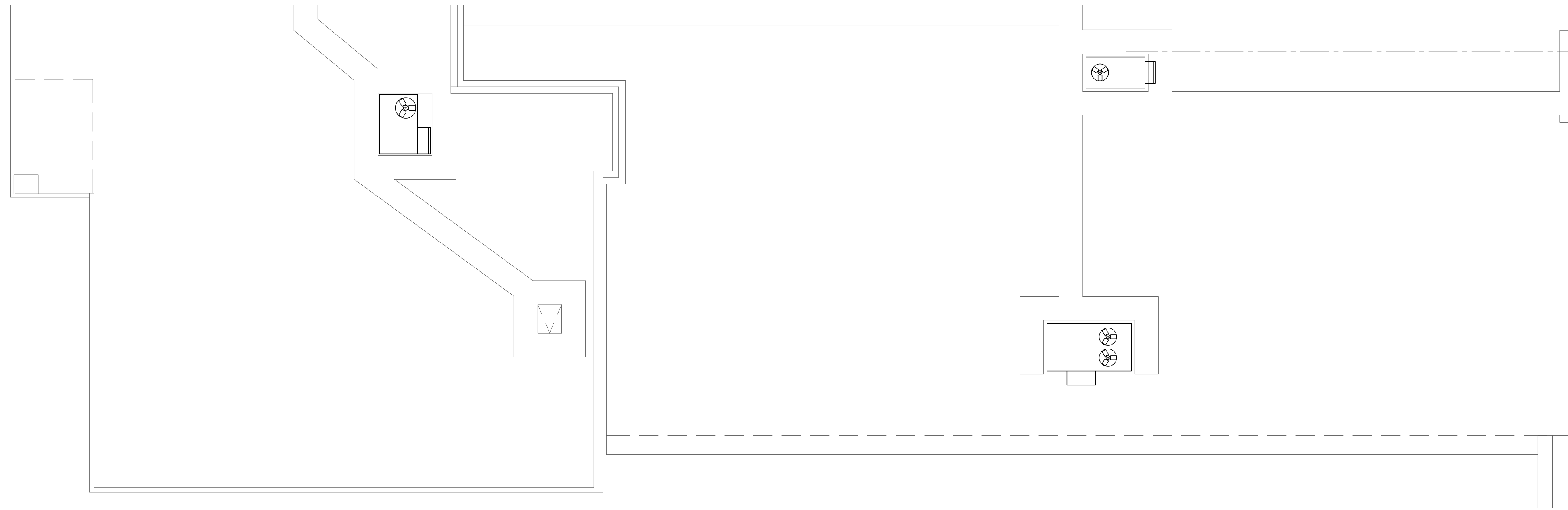
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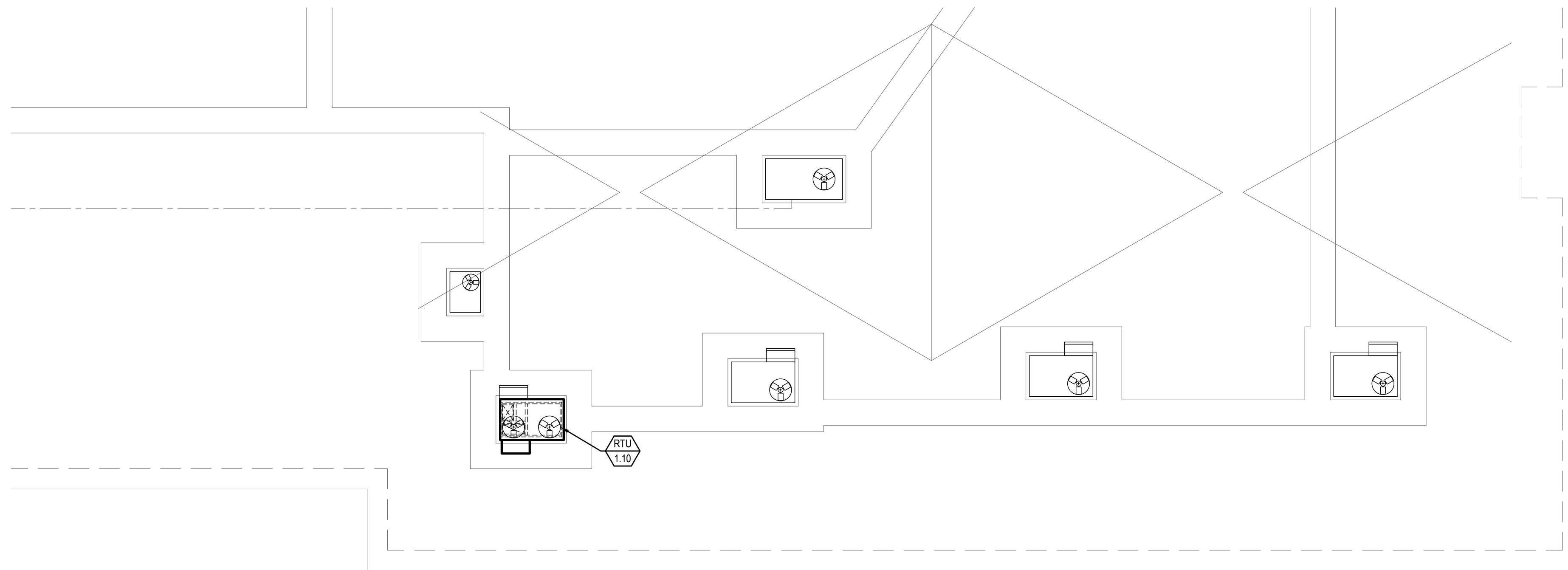
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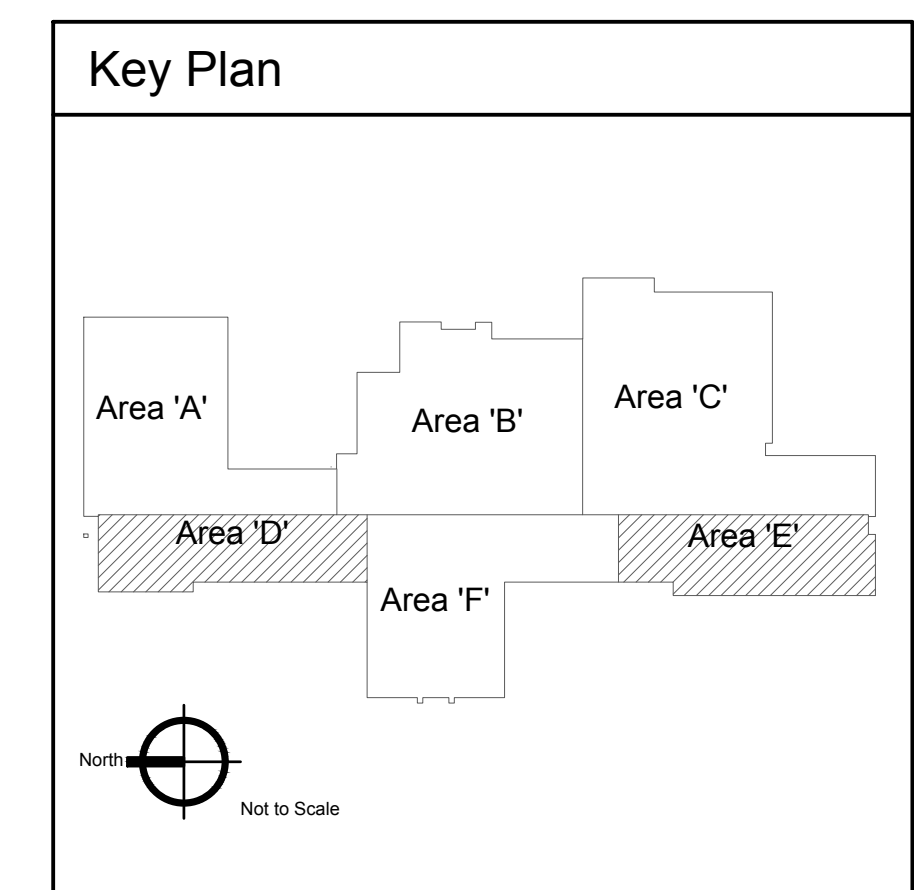
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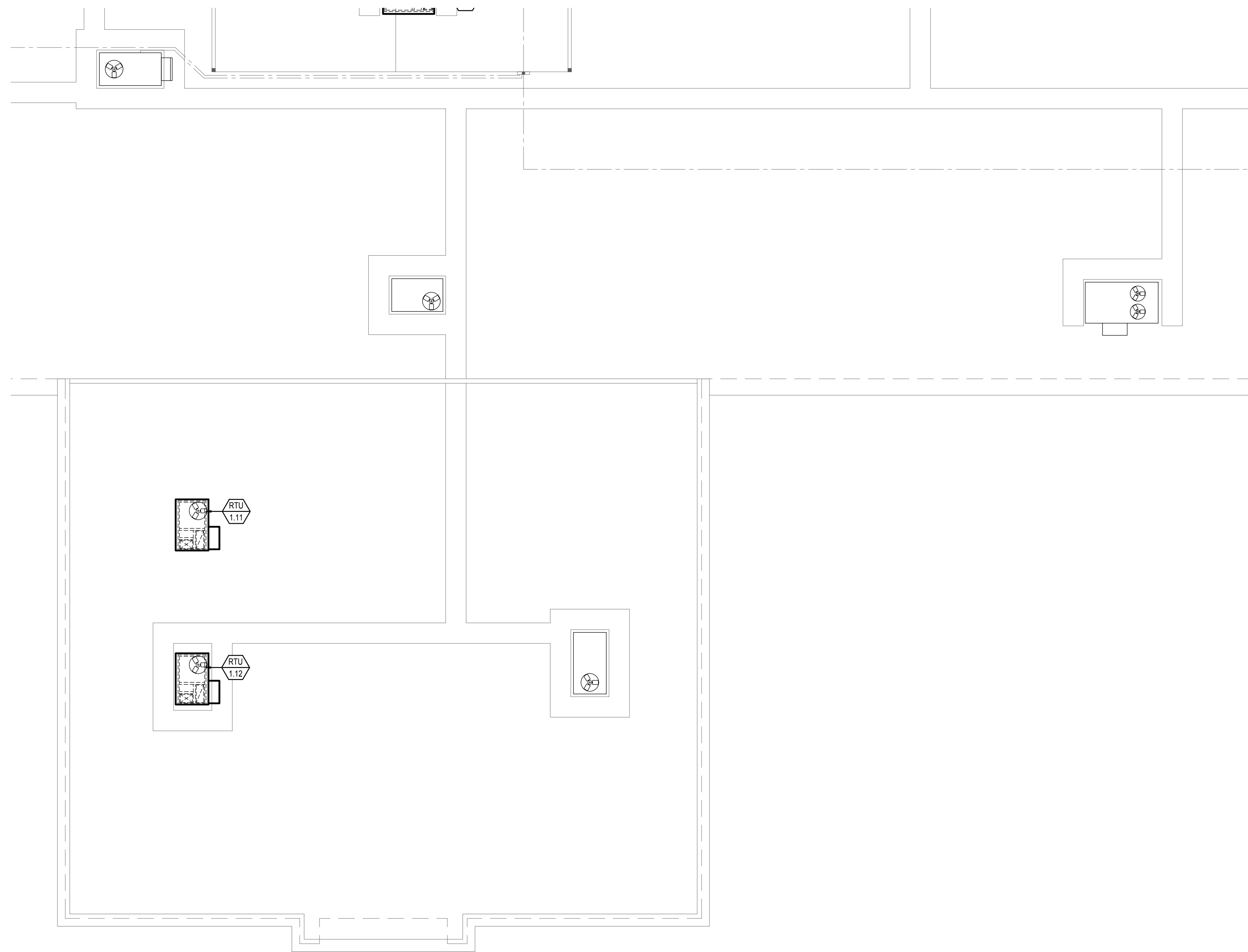


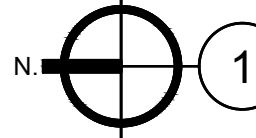
1 Electrical Roof Plan - Area 'D'
Scale: 1/8" = 1'-0"

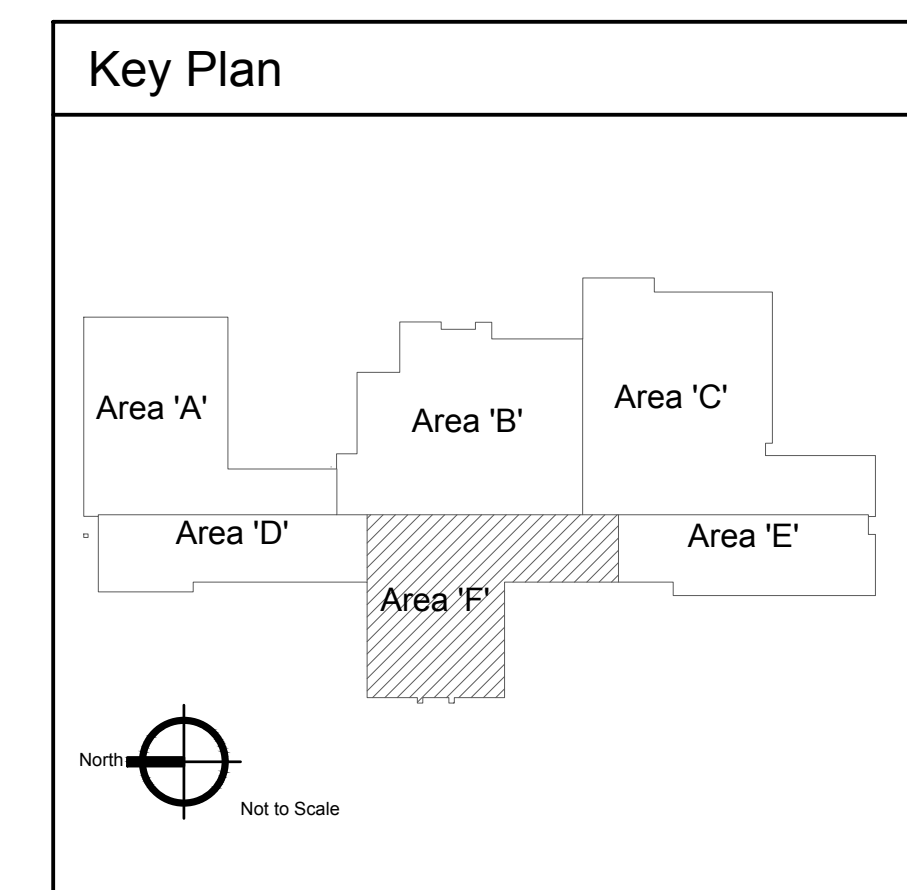


2 Electrical Roof Plan - Area 'E'
Scale: 1/8" = 1'-0"






1 Electrical Roof Plan - Area 'F'
 Scale: 1/8" = 1'-0"



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LIGHTING FIXTURE SCHEDULE (22-104)							
TYPE	DESCRIPTION	MTG.	LAMPS	WATTS	MFG. & CATALOG NUMBER	OR EQUAL BY	NOTES
BL1	4' LED STRIP FIXTURE WITH LENS FINISH WHITE	SUPSENDED			LITHONIA NO. CLX SERIES		
BL2	4' LED STRIP FIXTURE WITH LENS FINISH MATTE BLACK, 1% DIMMING	SUPSENDED			LITHONIA NO. CLX SERIES		
EX1	LED EXIT SIGN	AS NOTED ON DRAWINGS			LITHONIA NO. LOM SERIES		
GL1	2X4 LED VOLUMETRIC TROFFER	CEILING GRID	LED 4000L 4000K		LITHONIA NO. 2BLT4 SERIES		
GL2	2X4 LED FLAT PANEL, SELECTABLE OUTPUT	CEILING GRID			LITHONIA NO. CPANL SERIES		
HB1	LED HIGH BAY, CABLE HUNG, WIRE GUARD	AIRCRAFT CABLE			LITHONIA NO. IBE SERIES		
HB2	LED HIGH BAY, CABLE HUNG, WIRE GUARD	AIRCRAFT CABLE			LITHONIA NO. IBE SERIES		
RL1	LED ROUND RECESSED, 6" APERTURE	CEILING RECESSED			LITHONIA NO. LDN6 SERIES		
RL2	LED ROUND RECESSED, 6" APERTURE	CEILING RECESSED			LITHONIA NO. LDN6 SERIES		
SL1	LED SURFACE FIXTURE	CEILING SURFACE			LITHONIA NO. BLWP SERIES		
SL2	LED SURFACE FIXTURE (NEED TO COORDINATE WITH KURT)	CEILING SURFACE			JUNO LIGHTING NO. JSF SERIES		
TL1	STAGE TRACK LIGHTING (NEED TO COORDINATE WITH KURT)				LITHONIA NO. TEK SERIES		
WB1	4' LED WALL MOUNTED FIXTURE	ABOVE MIRROR			LITHONIA NO. WL4 SERIES		
WB2	2' LED WALL MOUNTED FIXTURE	ABOVE MIRROR			LITHONIA NO. WL2 SERIES		
WP1	LED WALL PACK (NEED TO COORDINATE WITH KURT)	ABOVE DOOR??			LITHONIA NO. WSQ SERIES (LOOKS TO MATCH EXISTING?)		
LIGHTING FIXTURE SCHEDULE NOTES:							
1. SUBSTITUTIONS WILL BE ALLOWED IF SUBMITTED PRIOR TO BID DATE BY THE GREATER OF: 7 BUSINESS DAYS OR THE TIME PERIOD SPECIFIED BY DIVISION 1 SPECIFICATIONS, AND IF DEEMED EQUAL BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING SUBSTITUTED FIXTURES MEET OR EXCEED THE SPECIFICATIONS OF THE FIXTURES SPECIFIED.							

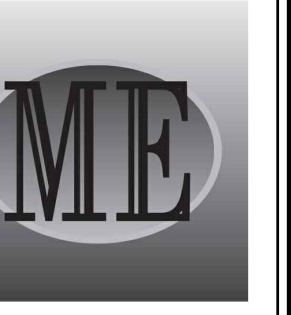
CONTROL ZONES		
ZONE	DESCRIPTION	CKTS
1		
2		
3		
4		
NOTES: 1. PROVIDE UNSWITCHED LEG TO EGRESS FIXTURES. 2. PROVIDE TIMECLOCK PROGRAMMING AS REQUIRED 3. COORDINATE TIME SCHEDULE WITH OWNER.		

PANEL: K		PROJECT: JEFFERSON ELEMENTARY SCHOOL ADDITION AND REMODEL												
VOLTAGE: 208 / 120 V		3 PH		4 WIRE		AMPERE RATING: 400A		WITH 400A		M.O.		MOUNTING: SURFACE		
BASIS OF DESIGN PANEL TYPE:		PANEL BOARD		NEMA ENCLOSURE TYPE:		1		PANEL AIC RATING:		10000 AIC				
CKT NOTES:		REMARKS:												
1. GFCI FOR PERSONNEL PROTECTION (5mA)		TWO SECTION BOARD. PROVIDE SECTION 1 WITH FEED THROUGH LUGS.												
2. GFCI FOR EQUIPMENT PROTECTION (30mA)		MAINTAIN SPECIFIED CONDUIT AND FEEDER SIZE FROM SECTION 1 TO SECTION 2												
3. AFCI COMBINATION STYLE BREAKER														
4. RED HANDLE, LOCKABLE BREAKER														
CKT	DESCRIPTION	CKT NOTE	LOAD VA	LOAD AMPS	AMPS/POLES	LOAD (VA)			AMPS/POLES	LOAD VA	LOAD AMPS	CKT NOTE	DESCRIPTION	CKT
1	SPARE			0.0	20	1	0		20	1	0.0		SPARE	2
3	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	4
5	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	6
7	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	8
9	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	10
11	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	12
13	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	14
15	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	16
17	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	18
19	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	20
21	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	22
23	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	24
25	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	26
27	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	28
29	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	30
31	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	32
33	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	34
35	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	36
37	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	38
39	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	40
41	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	42
43	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	44
45	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	46
47	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	48
49	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	50
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65	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	66
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69	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	70
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77	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	78
79	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	80
81	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	82
83	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	84
						0.0	0.0	0.0	VA					
						0.0	0.0	0.0	AMPS		0 TOTAL VA			

PANEL: N		PROJECT: JEFFERSON ELEMENTARY SCHOOL ADDITION AND REMODEL												
VOLTAGE: 208 / 120 V		3 PH		4 WIRE		AMPERE RATING: 200A		WITH 200A		M.O.		MOUNTING: SURFACE		
BASIS OF DESIGN PANEL TYPE:		PANEL BOARD		NEMA ENCLOSURE TYPE:		1		PANEL AIC RATING:		10000 AIC				
CKT NOTES:		REMARKS:												
1. GFCI FOR PERSONNEL PROTECTION (5mA)														
2. GFCI FOR EQUIPMENT PROTECTION (30mA)														
3. AFCI COMBINATION STYLE BREAKER														
4. RED HANDLE, LOCKABLE BREAKER														
CKT	DESCRIPTION	CKT NOTE	LOAD VA	LOAD AMPS	AMPS/POLES	LOAD (VA)			AMPS/POLES	LOAD VA	LOAD AMPS	CKT NOTE	DESCRIPTION	CKT
1	SPARE			0.0	20	1	0		20	1	0.0		SPARE	2
3	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	4
5	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	6
7	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	8
9	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	10
11	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	12
13	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	14
15	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	16
17	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	18
19	SPARE			0.0	25	1	0	0	20	1	0.0		SPARE	20
21	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	22
23	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	24
25	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	26
27	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	28
29	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	30
31	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	32
33	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	34
35	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	36
37	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	38
39	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	40
41	SPARE			0.0	20	1	0	0	20	1	0.0		SPARE	42
						0.0	0.0	0.0	VA					
						0.0	0.0	0.0	AMPS		0 TOTAL VA			



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PRELIMINARY



NOT FOR CONSTRUCTION
12/9/2022

Jefferson Elementary School
Addition and Remodel
600 N. Fillmore Street, Jerome, Idaho

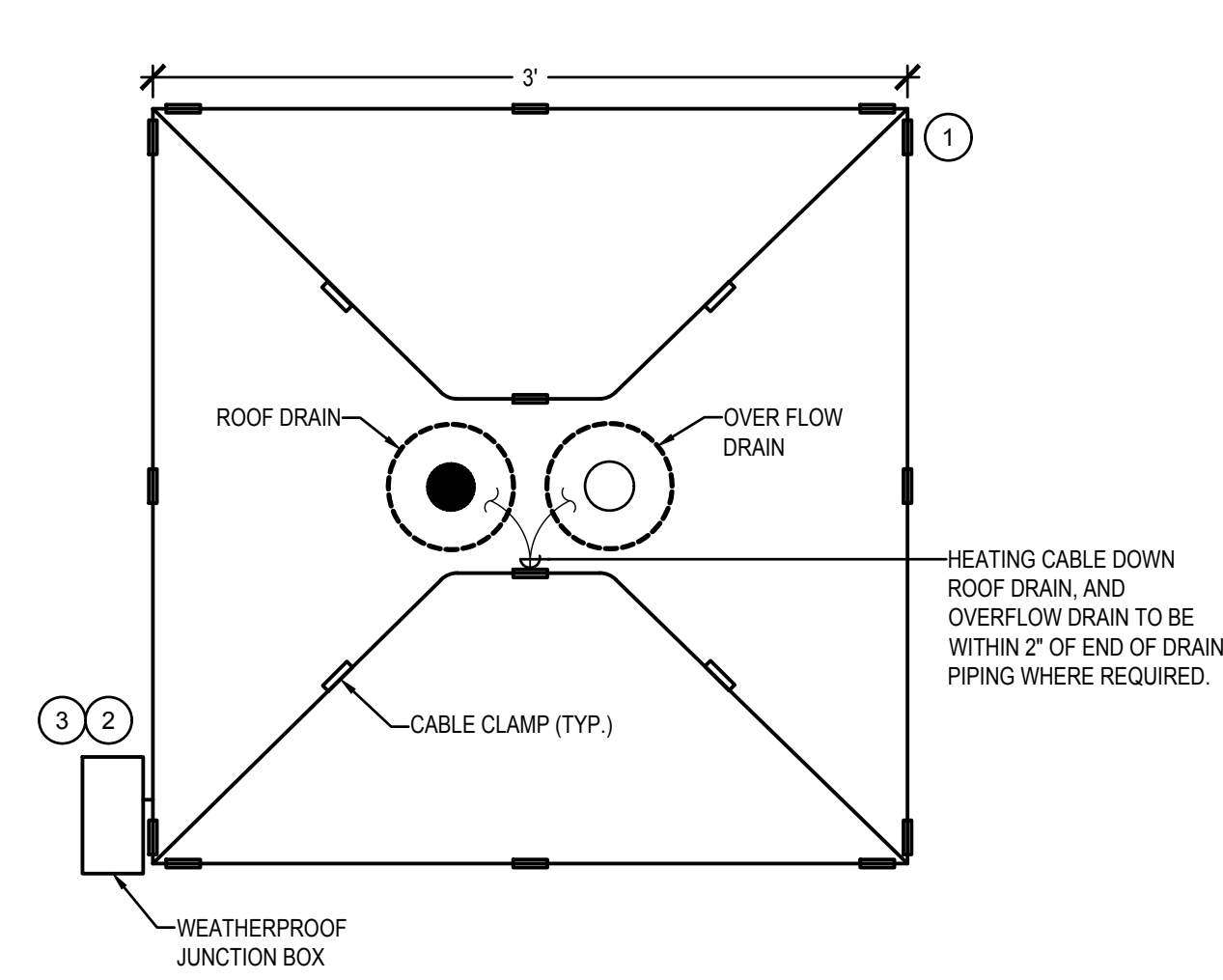
DATE: December 9, 2022
LKV PROJECT #: -
REVISIONS:

DRAWN BY: AN
CHECKED BY: KL

Design Development

DRAWING NO.

E-9.1



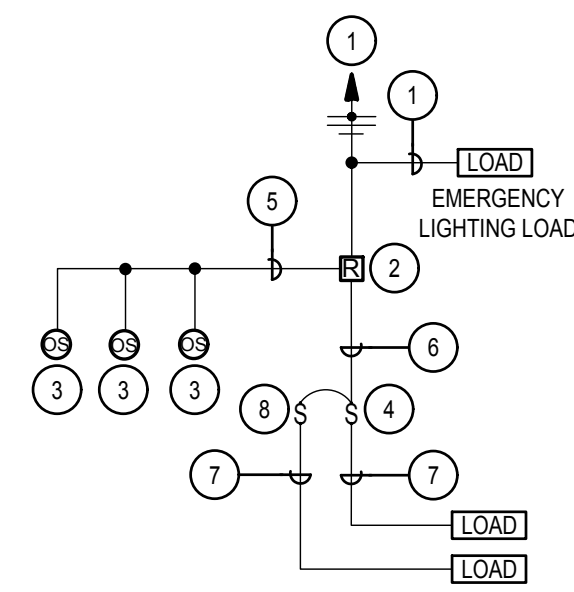
DETAIL KEYED NOTES:

SYMBOL USED FOR NOTE CALLOUT.

- DESIGN BASES ON RAYCHEM ICESTOP HEATING CABLES. PROVIDE ALL SYSTEM COMPONENTS NECESSARY FOR A COMPLETE, OPERABLE SYSTEM INCLUDING, BUT NOT LIMITED TO CABLES, CLAMPS, END SEALS AND POWER CONNECTIONS. COORDINATE WITH CIRCUIT VOLTAGE. ENGINEER APPROVED EQUALS ALLOWED.
- SERVING CIRCUIT BREAKER(S) FOR HEAT TRACE LOADS SHALL BE 30mA GFEP.
- PROVIDE AND INSTALL ONE PENTAIR DIGITRACE #AMC-1A OR EQUAL THERMOSTAT CONTROL FOR EACH CIRCUIT.

HEAT TAPE CABLING DETAIL

NTS



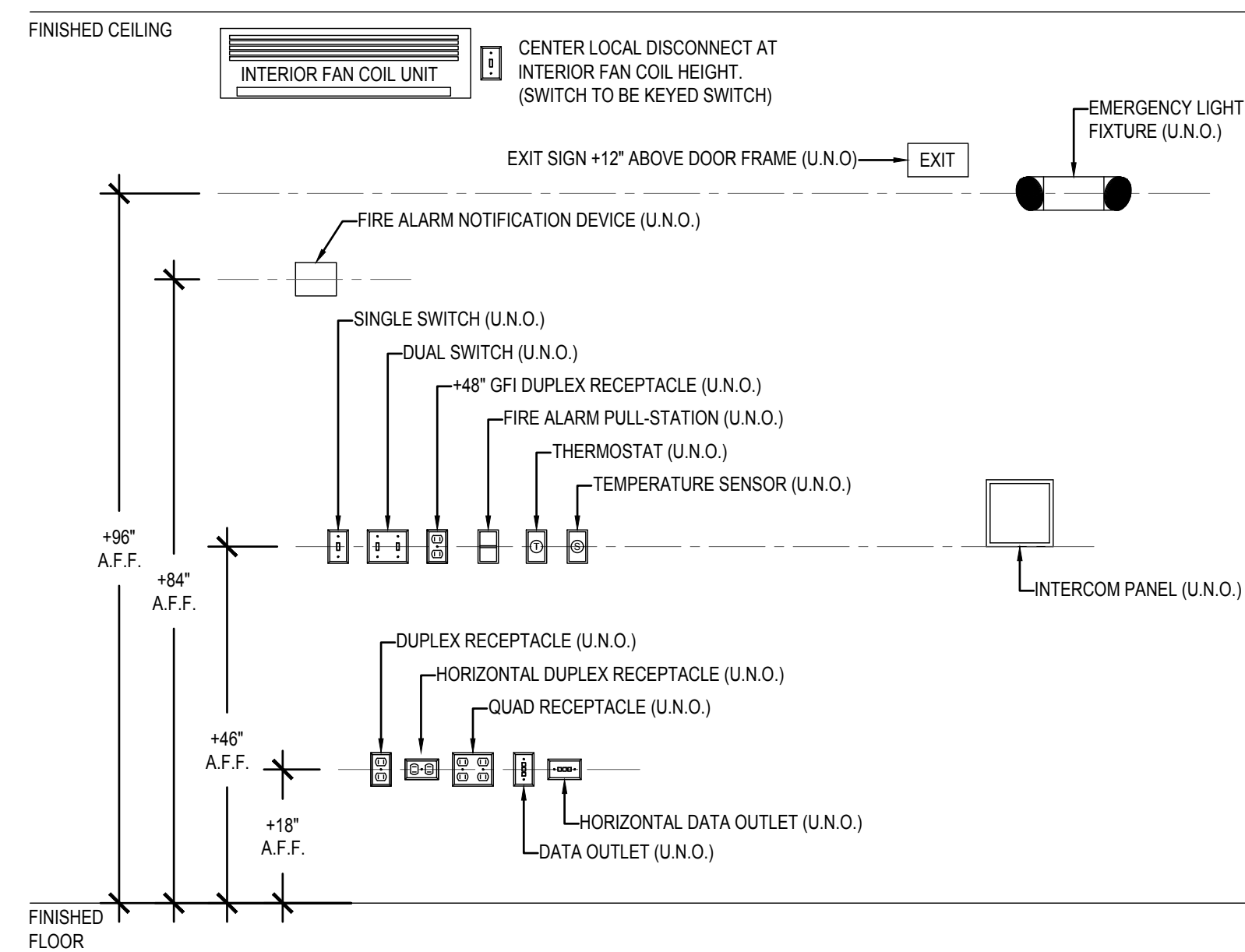
DETAIL KEYED NOTES:

SYMBOL USED FOR NOTE CALLOUT.

- UNSWITCHED LINE VOLTAGE POWER FEED FROM LOCAL PANEL.
- POWER/RELAY PACK RATED FOR UP TO 3 SENSORS AND 15A LINE VOLTAGE SWITCHING. PROVIDE QUANTITY AS REQUIRED FOR A COMPLETE INSTALLATION.
- LOW VOLTAGE OCCUPANCY SENSOR, UP TO 3 PER POWER PACK. PROVIDE WITH ISOLATED NONIC AUXILIARY CONTACTS FOR HVAC INTERLOCK QUANTITY AS INDICATED ON PLANS. LOCATION PER THE MANUFACTURERS RECOMMENDATIONS.
- WALL MOUNTED LINE VOLTAGE SNAP SWITCH(ES), QUANTITY AND LOCATION AS INDICATED ON PLANS.
- LOW VOLTAGE POWER AND CONTROL CONDUCTORS AS REQUIRED FOR A COMPLETE INSTALLATION.
- LINE VOLTAGE SWITCHED LEG FROM RELAY PACK TO LOCAL WALL SWITCHES.
- LINE VOLTAGE SWITCHED LEG FROM SWITCHES TO LIGHTING LOAD.
- SECOND SWITCH FOR DUAL LEVEL LIGHTING WHERE INDICATED ON PLANS.

OCCUPANCY SENSORS DETAIL

NTS

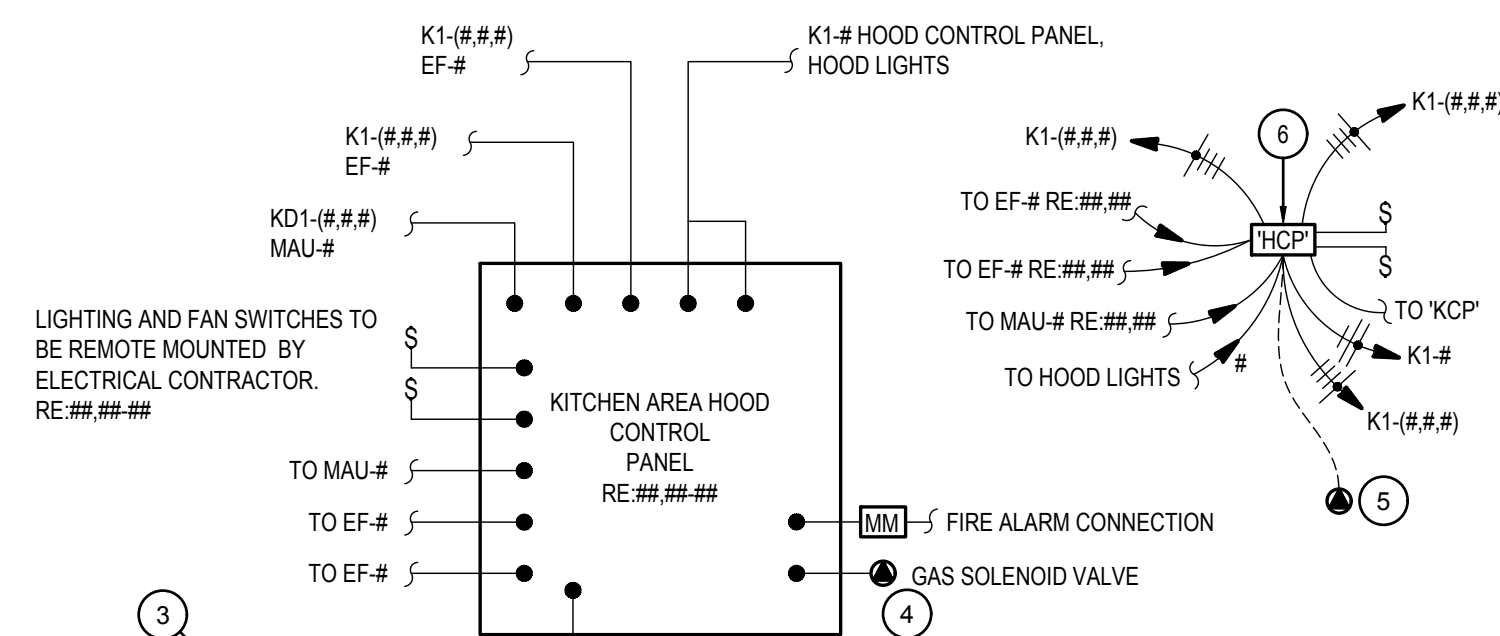


DETAIL GENERAL NOTES:

- PROVIDE FRAMING AS REQUIRED.

STANDARD MOUNTING HEIGHTS

NTS



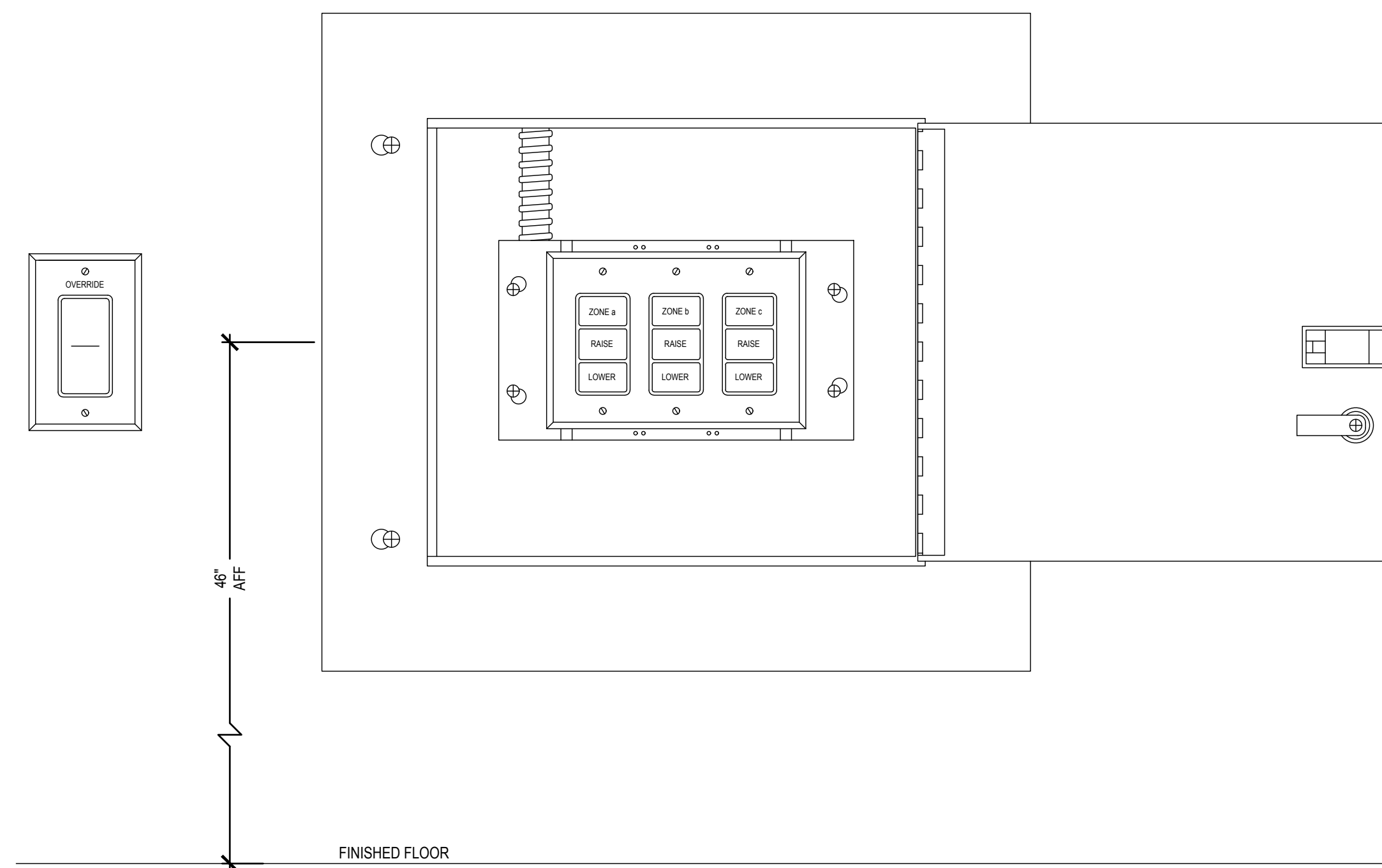
DETAIL KEYED NOTES:

SYMBOL USED FOR NOTE CALLOUT.

- 3-POLE, 200AMP RATED CONTACTOR WITH 120V COIL.
- 16-POLE, 30AMP RATED CONTACTOR WITH 120V COIL.
- HOOD CONTACTOR CABINET. PROVIDE NEMA 1 ENCLOSURE SIZED TO ACCOMMODATE ALL COMPONENTS AS REQUIRED. PROVIDE 20A, 240V RATED, NORMALLY OPEN, CONTACTS WITH 120V COIL. GE OR EQUAL. MAXIMUM WIDTH 24", MAXIMUM DEPTH 12".
- PROVIDE CONNECTION TO GAS SOLENOID VALVE. VALVE SHALL CLOSE TO ELIMINATE SUPPLY OF GAS UPON ACTIVATION OF ANSUL SYSTEM. COORDINATE VALVE LOCATION WITH DIVISION 22.
- CONNECTION FOR GAS SOLENOID VALVE. COORDINATE WITH DIVISION 22 AND VERIFY EQUIPMENT REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
- HOOD CONTROL PANEL 'HCP' WITH REMOTE MOUNTED SWITCHES INSTALLED BY DIVISION 26 FOR HOOD LIGHTS AND EXHAUST FAN CONTROL. CONTROL PANEL PROVIDED BY DIVISION 23 INSTALLED BY DIVISION 26. FIELD VERIFY LOCATION PRIOR TO ROUGH-IN. RE:26.16-F5

KITCHEN HOOD CONTACTOR PANEL DETAIL

NTS



LIGHT SWITCH ENCLOSURE DETAIL

NTS



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Addition and Remodel

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DATE: December 9, 2022
LKV PROJECT #: -
REVISIONS:

DRAWN BY: AN
CHECKED BY: KL

Design Development

DRAWING NO.

E-9.2