

ELECTRICAL LEGEND

(REFER TO SPECIFICATIONS FOR MORE INFORMATION)
NOTE: DIMENSIONS ARE TO CENTER OF DEVICE, UNO.

LIGHTING FIXTURES

(REFER TO LIGHTING FIXTURE SCHEDULE FOR DESCRIPTION AND TYPE)

SYMBOL	DESCRIPTION
	- LIGHTING FIXTURE.
	- LIGHTING FIXTURE - NORMAL AND EMERGENCY POWER.
	- LIGHTING FIXTURE - EMERGENCY POWER ONLY.
	- LIGHTING FIXTURE.
	- WALL MOUNTED LIGHTING FIXTURE.
	- EXIT LIGHTING FIXTURE - NORMAL AND EMERGENCY POWER - ARROW(S) INDICATE DIRECTIONAL MARKERS.
	- LIGHTING FIXTURE - WALL WASH.
	- LIGHTING FIXTURE - DOUBLE WALL WASH.
	- EMERGENCY BATTERY UNIT WITH 2 LAMPS.
	- EMERGENCY BATTERY PACK.
	- EMERGENCY BATTERY PACK REMOTE HEAD. WIRE WITH MINIMUM #10 AWG.
	- PHANTOM SYMBOL INDICATES EXISTING ITEM OR AS NOTED ON DRAWINGS.
	- STRIP LIGHTING FIXTURE.
	- TRACK LIGHTING - LENGTH OF TRACK AND NUMBER OF HEADS AS INDICATED ON DRAWINGS OR NOTED ON SCHEDULE.
	- FLOOD LIGHT. AM LIGHT AT NIGHT. COORDINATE TIME WITH ARCHITECT/OWNER/ENGINEER.

SWITCHES

SYMBOL	DESCRIPTION
S	- SINGLE POLE SWITCH - 20 AMP - MOUNT 46" AFF.
S2	- 2 POLE SINGLE THROW SWITCH - 20 AMP - MOUNT 46" AFF.
S3	- THREE WAY LIGHT SWITCH - 20 AMP - MOUNT 46" AFF.
S4	- FOUR WAY LIGHT SWITCH - 20 AMP - MOUNT 46" AFF.
Sk	- KEY OPERATED LIGHT SWITCH - 20 AMP - MOUNT 46" AFF.
SkK	- THREE WAY KEY OPERATED LIGHT SWITCH - 20 AMP - MOUNT 46" AFF.
S4K	- FOUR WAY KEY OPERATED LIGHT SWITCH - 20 AMP - MOUNT 46" AFF.
SxSx	- SUB-LETTER DESIGNATION INDICATES THE LIGHTING TO BE CONTROLLED BY EACH SWITCH WITHIN THE ROOM/AREA.
Sp	- LIGHT SWITCH WITH PILOT LIGHT - 20 AMP - MOUNT 46" AFF.
Stw	- TIMER SWITCH - SIMILAR TO TORK MODEL #SSA100, UNO - MOUNT 46" AFF.
Su1	- LIGHTED HANDLE LIGHT SWITCH - 20 AMP - MOUNT 46" AFF.
SuL	- RAISE/LOWER SWITCH - U.N.O. FURNISHED WITH EQUIPMENT. INSTALL AND PROVIDE FINAL CONNECTIONS PER MANUFACTURER REQUIREMENTS.
SuLc	- MOMENTARY CONTACT SWITCH - MOUNT 46" AFF.
Stp	- TIME DELAY SWITCH INSTALL AND PROVIDE FINAL CONNECTIONS PER MANUFACTURER REQUIREMENTS - MOUNT 46" AFF.
Sp	- DIMMER LIGHT SWITCH - TYPE & SIZED FOR LOAD SERVED - PROVIDE WITH POWER PACK AS REQUIRED FOR LOAD - MOUNT 46" AFF.
Sv	- LOW VOLTAGE OVERRIDE SWITCH STATION CONNECTED TO CORRIDOR LIGHTING CONTROL SYSTEM. PROVIDE SINGLE BUTTON STATION, UNO - MOUNT 46" AFF.
SL	- LOW VOLTAGE ON/OFF SWITCH STATION CONNECTED TO LIGHTING CONTROL SYSTEM. PROVIDE SINGLE BUTTON STATION (ON/OFF) - MOUNT 46" AFF.
Su	- LOW VOLTAGE DIMMER STATION CONNECTED TO LIGHTING CONTROL SYSTEM. PROVIDE 3-BUTTON STATION WITH ON/OFF AND RAISE/LOWER BUTTONS. MOUNT 46" AFF. SEE SPECIFICATIONS.
Sos	- OCCUPANCY SENSING SINGLE POLE DIMMER LIGHT SWITCH - MOUNT 46" AFF.
Sos	- OCCUPANCY SENSING WALL SWITCH - MOUNT 46" AFF.
LS	- LOW VOLTAGE CEILING/WALL MOUNTED OCCUPANCY SENSING UNIT POWERED FROM LIGHTING CONTROL SYSTEM - SEE SPECIFICATIONS. VERIFY LOCATION OF SENSOR WITH MANUFACTURER PRIOR TO INSTALLATION.
LA	- DAYLIGHT SENSOR TO BE WIRED INTO LIGHTING CONTROL SYSTEM PER MANUFACTURER'S REQUIREMENTS. ATTACH TO CEILING OR WALL WITH THE USE OF A THREADED NUT. 2-SIDED TAPE SHALL NOT BE ACCEPTABLE. SENSOR MAY BE INSTALLED TO PENDANT AS REQUIRED FOR PROPER OPERATION. VERIFY LOCATION OF SENSOR WITH MANUFACTURER PRIOR TO INSTALLATION.

RECEPTACLES

SYMBOL	DESCRIPTION
	- DUPLEX RECEPTACLE - 20 AMP - 120 VOLT 18" AFF.
	- SINGLE RECEPTACLE - 20 AMP - 120 VOLT 18" AFF.
	- DUPLEX RECEPTACLE - 20 AMP, 120 VOLT, SPLIT WIRED - 18" AFF.
	- DUPLEX RECEPTACLE - 20 AMP, 120 VOLT TRANSIENT VOLTAGE SURGE SUPPRESSER TYPE - 18" AFF.
SH	- SHUTTERED RECEPTACLE 20 AMP 120 VOLT 18" AFF.
ENC	- ELECTRIC WATER COOLER RECEPTACLE - TYPE PER MANUFACTURER'S RECOMMENDATIONS - COORDINATE HEIGHT WITH EWC.
GF	- GROUND FAULT RECEPTACLE - INDIVIDUAL TYPE - 18" ABOVE FINISHED FLOOR.
WP	- DUPLEX RECEPTACLE (WITH "WR" LABEL) WITH WEATHER PROOF COVER - FLUSH - 18" AFF.
USB	- DUPLEX RECEPTACLE - 20 AMP - 120 VOLT WITH (2) USB CHARGING PORTS 18" AFF UNO.
	- DUPLEX RECEPTACLE 20 AMP 120 VOLT 18" AFF - WIRED TO NORMAL/EMERGENCY CIRCUIT - PROVIDE RED DEVICE.
	- QUAD OUTLET - 120V - 20 AMP EACH - TWO DUPLEX TOGETHER WITH ONE COVER PLATE - 18" AFF.
	- DUPLEX RECEPTACLE WITH CAST OUTLET BOX ON STAND PIPE 3" AFF.
	- SPECIAL OUTLET - SIZE AND TYPE INDICATED - 18" AFF.
	- FLUSH FLOOR OUTLET - PROVIDE (2)-1" CONDUITS TO ACCESSIBLE CEILING PLENUM FOR DATA CABLEING AND (1) CONDUIT SPARE. PROVIDE (2) DUPLEX RECEPTACLES AND (4) DATA JACKS IN EACH FLOOR BOX. FLOOR BOX SHALL BE WIREMOLD CAT. #FBA4R300G WITH DUPLEX RECEPTACLE AND COMMUNICATION BRACKETS. PROVIDE CAT. #FPBTC FLANGED BLANK COVER ASSEMBLY WITH FINISH COLOR AS SELECTED BY ARCHITECT. PROVIDE 3/4" CONDUIT FOR POWER WIRING. FIELD VERIFY EXACT MOUNTING LOCATION OF FLOOR BOX WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN. SAW CUT EXISTING FLOOR AS REQUIRED TO INSTALL CONDUITS BELOW FLOOR SLAB AND EXTEND CONDUITS CONCEALED OVERHEAD VIA NEW WALL CONSTRUCTION AND PATCH FLOOR TO MATCH ADJACENT SURFACES.
***	- PLUGMOLD WITH RECEPTACLES 12" OC IVORY (VERIFY MOUNTING HEIGHT) WIREMOLD V24GBA SERIES OR EQUAL BY HUBBELL (2-CIRCUIT).
***	- PLUGMOLD WITH RECEPTACLES 18"OC IVORY (VERIFY MOUNTING HEIGHT) WIREMOLD V24GBA SERIES OR EQUAL BY HUBBELL (2-CIRCUIT).
	- SURFACE RACEWAY - PROVIDE RECEPTACLES AS SHOWN (VERIFY MOUNTING HEIGHT) WIREMOLD 700 SERIES OR EQUAL BY HUBBELL (AS SPECIFIED ON DRAWINGS).
	- DUPLEX RECEPTACLE - 20 AMP, 120 VOLT - ("C") INDICATES MOUNTED ABOVE COUNTER OR HEIGHT ABOVE BACKSPASH. COORDINATE EXACT LOCATION WITH ARCHITECT AND CASEWORK DRAWINGS.)
	- FLOOR OUTLET RECESSED FLUSH STYLE POKE-THRU DEVICE - DATA CABLEING FED FROM FLOOR BELOW. PROVIDE SPARE 1" CONDUIT FROM POKE-THRU DEVICE UP WALL TO ACCESSIBLE CEILING PLENUM. PROVIDE (2) DUPLEX RECEPTACLES AND (2) DATA JACKS IN FLOOR OUTLET. POKE-THRU SHALL BE WIREMOLD CAT. #REVOLUTION 6AT SERIES WITH DEVICE BRACKETS AS REQUIRED. PROVIDE ACTIVATION COVER ASSEMBLY WITH FINISH COLOR AS SELECTED BY ARCHITECT. PROVIDE 3/4" CONDUIT FOR POWER WIRING. FLOOR SHALL BE CORE DRILLED WITH FINAL LOCATION MARKED BY ARCHITECT/OWNER. CONCRETE POUR SLEEVE SHALL NOT BE USED.

EQUIPMENT

SYMBOL	DESCRIPTION
	- JUNCTION BOX - PROVIDE FINAL CONNECTION TO EQUIPMENT AND OR BLANK COVERPLATE.
	- MOTOR - SIZE AND TYPE AS INDICATED - BY OTHERS. PROVIDE FINAL CONNECTIONS.
	- MOTOR CONTROLLER - BY OTHERS. PROVIDE FINAL CONNECTIONS.
	- PANELBOARD.
	- EXISTING PANELBOARD.
TC	- TIME CLOCK - 7-DAY ASTRONOMIC - INTERMATIC ET 8000 SERIES.
PC	- IN-WALL PHOTOCELL - INTERMATIC MODEL EK43365 (MOUNT AS HIGH ON WALL AS POSSIBLE).
C	- CONTACTOR - MECHANICALLY HELD - SIZE AND TYPE REQUIRED OR NOTED ON DRAWINGS.
D	- EMERGENCY SHUTDOWN SWITCH - MOUNT 46" AFF.
EX	- EMERGENCY SHUTDOWN SWITCH - WITH KEYED RESET - MOUNT 46" AFF.
St	- THERMAL SWITCH MANUAL STARTER WITH THERMAL PROTECTION AND HAND/AUTO SWITCH TO ALLOW STARTER CONTROL FROM REMOTE SOURCE. HAND/AUTO SWITCH ONLY REQUIRED FOR RE-CIRCULATING PUMPS. SQUARE D CLASS 2510 SERIES WITH HANDLE GUARD/LOCK OFF ATTACHMENT MOUNT ON OR ADJACENT TO EQUIPMENT.
Stp	- THERMAL SWITCH (MANUAL STARTER WITH THERMAL PROTECTION) SQUARE D CLASS 2510 SERIES WITH HANDLE GUARD/LOCK OFF ATTACHMENT AND PILOT LIGHT - FLUSH MOUNTED - MOUNT ON OR ADJACENT TO EQUIPMENT.
Stz	- THERMAL SWITCH (MANUAL STARTER) LEVITON CAT. NO. N1302 DOUBLE POLE, SINGLE THROW 30A-208V-1# WITH A LOCK OFF ATTACHMENT IN A NEMA 1 ENCLOSURE. (SIMILAR SQUARE D) - MOUNT ON OR ADJACENT TO EQUIPMENT.
Stz	- THERMAL SWITCH (MANUAL STARTER) SQUARE D CLASS 2510 SERIES THREE POLE, THREE PHASE 30A-208V-3# WITH A LOCK OFF ATTACHMENT IN A NEMA 1 ENCLOSURE. - MOUNT ON OR ADJACENT TO EQUIPMENT.
T	- TRANSFORMER - SIZE AS INDICATED - SEE DRAWING AND SPECIFICATION.
	- NON-FUSED DISCONNECT SWITCH - SIZE AND TYPE INDICATED.
	- FUSED DISCONNECT SWITCH - SIZE AND TYPE INDICATED (PROVIDE FUSES AS PER EQUIPMENT MANUFACTURERS REQUIREMENTS).
	- COMBINATION STARTER/DISCONNECT SWITCH - SIZE 1 U.N.O. - FURNISHED BY E.C. UNO, INSTALLED BY E.C. - 60" TO HANDLE.
VF	- VARIABLE FREQUENCY DRIVE - FURNISHED BY OTHERS. INSTALL DRIVE AND PROVIDE FINAL CONNECTIONS.
	- ENCLOSED CIRCUIT BREAKER - SIZE AS INDICATED.
	- RELAY.
TVSS	- TRANSIENT VOLTAGE SURGE SUPPRESSOR
	- CABLE REEL DROP
	- EXHAUST FAN - ROOF MOUNTED - PROVIDED BY OTHERS. PROVIDE FINAL CONNECTIONS.
	- CEILING FAN.
	- LIGHTING CONTROL SYSTEM LIGHTING PROCESSOR CONTROL PANEL.
	- LIGHT REEL DROP
	- AUTOMATIC DOOR PUSH PLATE - PROVIDE BACK BOX AND 3/4" CONDUIT TO ACCESSIBLE CEILING. EC TO INSTALL AND WIRE CONTROLS FURNISHED BY OTHERS. PROVIDE ADDITIONAL LOW VOLTAGE RELAYS, AND ALL LOW VOLTAGE WIRING TO INTERFACE AS REQUIRED WITH THE ACCESS CONTROL SYSTEM SO THAT DOORS ONLY OPERATE WHEN THE ACCESS CONTROL SYSTEM ALLOWS. - MOUNT 48" AFF.
PM	- POWER MODULE SWITCH - REFER TO MAIN POWER RISER DIAGRAM FOR ADDITIONAL INFORMATION. CONNECT SWITCH TO BUILDING FIRE ALARM SYSTEM ACCORDINGLY FOR SHUTDOWN OPERATION.

COMMUNICATION SYSTEMS

SYMBOL	DESCRIPTION
2D	- DATA OUTLET - FLUSH MOUNTED SINGLE GANG BOX 18" AFF UNO WITH 1" CONDUIT TO ACCESSIBLE CEILING PLENUM. NUMBER BESIDE SYMBOL DESIGNATES QUANTITY OF DATA CABLES AND JACKS AT THIS LOCATION OTHER THAN (1). PROVIDE CABLEING AND JACKS PER SPECIFICATIONS. RUN CABLEING TO DATA CLOSET INDICATED AND TERMINATE.
WD	- DATA OUTLET FOR TELEPHONE HANDSET - FLUSH MOUNTED SINGLE GANG BOX 42" AFF WITH 3/4" CONDUIT TO ACCESSIBLE CEILING PLENUM. PROVIDE CABLEING AND JACK PER SPECIFICATIONS. RUN CABLEING TO DATA CLOSET INDICATED AND TERMINATE.
HC	- WIRELESS CLOCK SYSTEM ANALOG CLOCK, WALL MOUNTED (VERIFY HEIGHT) 12" ROUND UNO. PROVIDE DUPLEX RECEPTACLE AND CONNECT RECEPTACLE TO NEAREST NORMAL 120V RECEPTACLE CIRCUIT.
	- MICROPHONE OUTLET WALL MOUNTED FLUSH - SINGLE GANG BOX - MOUNT 18" AFF, UNO.
	- MICROPHONE OUTLET - CEILING MOUNTED. PROVIDE HANGING MICROPHONE AS INDICATED IN SPECIFICATIONS.
	- SOUND SYSTEM SPEAKER - CEILING MOUNTED (PAGING SYSTEM). QUAM MODEL C10X/BU/WS/VC 8", 15 WATT SPEAKER WITH 10 OZ. MAGNET, 24/70V TRANSFORMER, GRILLE AND VOLUME CONTROL. PROVIDE COMPATIBLE ENCLOSURE AND TILE BRIDGE. PROVIDE #16/2 AWG WIRE FROM SPEAKER TO NEAREST DATA CLOSET. COORDINATE WITH OWNER EXACT LOCATION OF TERMINATION. EACH SPEAKER SHALL BE PROVIDED WITH A DEDICATED HOMERUN TO CLOSET.
L	- SOUND SYSTEM SPEAKER - CEILING MOUNTED (LOCAL SYSTEM). (2) SPEAKERS ARE INDICATED IN EACH ROOM THEY SERVE (PROVIDE (1) RECESSED A/V SYSTEM AMPLIFIED SPEAKER, OWN MODEL AMP-525106 WITH TILE BRIDGE SUPPORT AND BACK CAN AND PROVIDE (1) RECESSED A/V SYSTEM NON-AMPLIFIED SPEAKER, OWN MODEL 108 WITH TILE BRIDGE SUPPORT AND BACK CAN). PROVIDE COMPATIBLE LINE LEVEL VOLUME CONTROL IN ROOM 46" AFF AT LOCATION DESIRED BY OWNER. STUD 1" CONDUIT FROM VOLUME CONTROL DEVICE BOX TO ACCESSIBLE CEILING AND PROVIDE ALL REQUIRED VOLUME CONTROL CABLES BETWEEN VOLUME CONTROL AND CEILING SPEAKERS. VOLUME CONTROL FINISH SELECTED BY ARCHITECT. PROVIDE AUDIO CABLE FROM AMPLIFIED SPEAKER TO ROOM INTERACTIVE PROJECTOR AS REQUIRED. INSTALL SPEAKERS AS RECOMMENDED BY THE MANUFACTURER FOR THE BEST PERFORMANCE.
WES	- SOUND SYSTEM SPEAKER - EXTERIOR BUILDING SURFACE MOUNTED (PAGING SYSTEM) - WEATHERPROOF. QUAM MODEL H16/SVPS 8", 16 WATT INDOOR/OUTDOOR RATED SPEAKER WITH 10 OZ. MAGNET, 24/70V TRANSFORMER AND GRILLE. PROVIDE MODEL BSVPS STAINLESS STEEL Baffle AND MODEL SE1WPS STAINLESS STEEL SURFACE BACKBOX. CONTRACTOR TO SHIP Baffle AND BACKBOX TO LOCAL POWDER COAT SHOP. AND HAVE THE DEVICES POWDER COATED PER ARCHITECT DIRECTION, TO MATCH EXISTING BRICK. PROVIDE #16/2 AWG WIRE FROM SPEAKER TO NEAREST DATA CLOSET. COORDINATE WITH OWNER EXACT LOCATION OF TERMINATION. EACH SPEAKER SHALL BE PROVIDED WITH A DEDICATED HOMERUN TO CLOSET.
3	- 3 1/2" DEEP SINGLE GANG FLUSH MOUNTED BOX, 96" AFF WITH 1 1/4" CONDUIT TO ACCESSIBLE CEILING PLENUM AND PULL STRING FOR FUTURE A/V LOCAL SYSTEM SPEAKER AND WIRING BY OWNER. PROVIDE BLANK COVER PLATE FOR BOX. COORDINATE EXACT LOCATION OF BOX WITH OWNER PRIOR TO ROUGH-IN.
2V	- WIRELESS ACCESS POINT - DATA OUTLET TERMINATED ABOVE ACCESSIBLE CEILING. CONTRACTOR IS RESPONSIBLE FOR PROVIDING PLENUM RATED BOX AND TERMINATIONS. NUMBER BESIDE SYMBOL DESIGNATES QUANTITY OF DATA CABLES AND JACKS AT THIS LOCATION OTHER THAN (1). PROVIDE CABLEING AND JACKS PER SPECIFICATIONS. RUN CABLEING TO DATA CLOSET INDICATED AND TERMINATE. E.C. TO INSTALL ACCESS POINT FURNISHED BY OWNER UNO.
C	- DOOR INTERCOM SYSTEM REMOTE STATION - FURNISHED BY OWNER AND INSTALLED BY E.C. COORDINATE BACKBOX WITH OWNER. PROVIDE DATA CABLES TO DATA CLOSET.
MS	- DOOR INTERCOM SYSTEM MASTER STATION - FURNISHED BY OWNER AND INSTALLED BY E.C. COORDINATE BACKBOX WITH OWNER. PROVIDE DATA CABLES TO DATA CLOSET.
H	- 3 1/2" DEEP 2-GANG FLUSH MOUNTED BOX, 18" AFF UNO WITH 1 1/4" CONDUIT TO ACCESSIBLE CEILING PLENUM AND PULL STRING FOR FUTURE A/V SYSTEM CONNECTORS AND CABLEING BY OWNER. PROVIDE BLANK COVER PLATE FOR BOX.
H4	- 3 1/2" DEEP 4-GANG FLUSH MOUNTED BOX, 18" AFF UNO WITH (2) 1 1/4" CONDUITS TO ACCESSIBLE CEILING PLENUM AND PULL STRINGS FOR FUTURE A/V SYSTEM CONNECTORS AND CABLEING BY OWNER. PROVIDE BLANK COVER PLATE FOR BOX.
TP	- SINGLE GANG FLUSH MOUNTED BOX, 46" AFF WITH 1" CONDUIT TO ACCESSIBLE CEILING PLENUM AND PULL STRING FOR FUTURE A/V SYSTEM TOUCH PANEL AND CABLEING BY OWNER. PROVIDE BLANK COVER PLATE FOR BOX. COORDINATE EXACT LOCATION OF BOX WITH OWNER PRIOR TO ROUGH-IN.

SECURITY/ACCESS CONTROL SYSTEMS

SYMBOL	DESCRIPTION
	- CCTV SYSTEM CAMERA - E.C. SHALL PROVIDE DATA CABLEING AND BACKBOX, PER SPECIFICATIONS, CONCEALED BACK TO RESPECTIVE DATA CLOSET INDICATED. VERIFY EXACT CAMERA LOCATION WITH OWNER PRIOR TO ROUGH-IN OF CABLEING. CAMERA FURNISHED BY OWNER AND INSTALLED BY E.C. FOR ALL NEW AND EXISTING REINSTALLED CAMERAS, E.C. SHALL PROVIDE MANUFACTURER STANDARD CEILING TILE BRACKET SUPPORT FOR MOUNTING OF CAMERAS.
CR	- CARD READER - PROXIMITY TYPE - 46" AFF. CONTRACTOR SHALL PROVIDE A BOX AND 3/4" SPARE CONDUIT TO ABOVE ACCESSIBLE CEILING. CARD READER AND ASSOCIATED WIRING BY OTHERS.
DS	- ELECTRIC DOOR STRIKE OR LATCH RETRACTION - PROVIDED AND WIRED BY OTHERS. E.C. TO PROVIDE 3/4" SPARE CONDUIT FROM DOOR FRAME TO ABOVE ACCESSIBLE CEILING.
RP	- KEY PAD FOR SECURITY SYSTEM PROVIDED AND WIRED BY E.C. - 46" AFF.
LR	- CEILING MOUNTED LONG RANGE PASSIVE INFRARED MOTION DETECTOR PROVIDED AND WIRED BY E.C.
MD	- CEILING MOUNTED 360° PASSIVE INFRARED MOTION DETECTOR PROVIDED AND WIRED BY E.C.
DC	- DOOR CONTACT - AT MAIN OFFICE BUILDING ENTRANCE DOORS, CONTACTS SHALL BE PROVIDED AND WIRED BY OTHERS. E.C. TO PROVIDE 3/4" SPARE CONDUIT FROM DOOR HEADER TO ABOVE ACCESSIBLE CEILING AND FISH WHIP TO ABOVE ACCESSIBLE CEILING. AT EXISTING OVERHEAD DOORS AND ROOF HATCHES IN MAIN OFFICE BUILDING, CONTACTS SHALL BE PROVIDED AND WIRED BY E.C. ALL CONTACTS SHOWN AT READING CREST AVE. FACILITY SHALL BE PROVIDED AND WIRED BY E.C. PER SPECIFICATIONS.
PS	- DOOR HARDWARE POWER SUPPLY - FURNISHED AND INSTALLED BY OTHERS, 120V WIRING BY E.C. CONNECT POWER SUPPLY TO NEAREST, EXISTING 120/208V NORMAL/EMERGENCY "UP" POWER PANEL ("UP1" OR "UP2") VIA 2 #12 & #120-3/4"C. CONNECT A MAXIMUM OF (8) POWER SUPPLIES ON EACH CIRCUIT. EACH POWER SUPPLY CIRCUIT SHALL CONNECT TO A 20A/1P CIRCUIT BREAKER IN THE RESPECTIVE PANEL.
AS	- SECURITY SYSTEM AUDIBLE ALARM PROVIDED AND WIRED BY E.C.

FIRE ALARM SYSTEM

SYMBOL	DESCRIPTION
A	- FIRE ALARM AUDIO UNIT - WALL MOUNTED 18" BELOW FINISHED CEILING (8" ABOVE FINISHED FLOOR MAX.)
30 AV	- COMBINATION FIRE ALARM AUDIO/VISUAL UNIT - WALL MOUNTED 80" AFF. NUMBER BESIDE UNIT INDICATES CANDELA RATING OTHER THAN 15.
F	- FIRE ALARM PULL STATION - 42" ABOVE FINISHED FLOOR TO THE HANDLE.
30 V	- FIRE ALARM VISUAL UNIT - WALL MOUNTED 80" AFF. NUMBER BESIDE UNIT INDICATES CANDELA RATING OTHER THAN 15.
①	- FIRE ALARM AUDIO UNIT - FLUSH CEILING
30 V	- FIRE ALARM VISUAL UNIT - FLUSH CEILING. NUMBER BESIDE UNIT INDICATES CANDELA RATING OTHER THAN 15.
30 AV	- COMBINATION FIRE ALARM AUDIO/VISUAL UNIT - FLUSH CEILING. NUMBER BESIDE UNIT INDICATES CANDELA RATING OTHER THAN 15.
H	- HEAT DETECTOR.
S	- SMOKE DETECTOR.
S-D	- DUCT MOUNTED SMOKE DETECTOR WITH REMOTE TEST SWITCH/LED INDICATOR - DETECTOR FURNISHED AND WIRED BY E.C. - DETECTOR INSTALLED BY H.C. REMOTE TEST SWITCH/INDICATOR INSTALLED ON WALL BY E.C. AS PER MANUF. REQUIREMENTS.
M	- MAGNETIC DOOR HOLDER - PROVIDED AND WIRED BY EC.
FS	- SPRINKLER FLOW SWITCH - SUPPLIED AND INSTALLED BY F.P.C., WIRED BY E.C.
TS	- SPRINKLER TAMPER SWITCH - SUPPLIED AND INSTALLED BY F.P.C., WIRED BY E.C.
KB	- KNOX BOX - CONNECT TO FIRE ALARM SYSTEM.
EG	- ELECTRIC SPRINKLER GONG - FURNISHED AND INSTALLED BY FIRE PROTECTION CONTRACTOR, WIRED BY E.C.
FACP	- FIRE ALARM CONTROL PANEL. PROVIDE 120V POWER FROM NEAREST NORMAL 120V POWER PANEL.

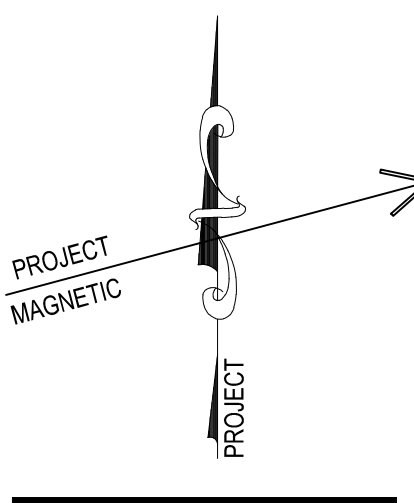
WIRING

SYMBOL	DESCRIPTION
	HOMERUN TO APPLICABLE PANEL - WIRING SHALL BE #212 AWG WITH SEPARATE GROUND WIRE IN 3/4" CONDUIT UNLESS NOTED OTHERWISE.
	WIRING - CONCEALED AS SPECIFIED OR AS OTHERWISE NOTED.
	EQUIPMENT CONNECTED TO SAME CIRCUIT EXCEPT SEPARATELY CONTROLLED.
	SURFACE RACEWAY - WIREMOLD 700 SERIES (IVORY).
	INDICATES VERTICAL RUN OF SURFACE RACEWAY TO ACCESSIBLE CEILING PLENUM.
①	INDICATES DRAWING NOTE NUMBER.
①	INDICATES KITCHEN EQUIPMENT NUMBER.

ABBREVIATIONS

SYMBOL	DESCRIPTION
AAC	- AMBIENT AIR CLEANER - BY OTHERS. PROVIDE FINAL CONNECTIONS.
AC	- AIR CONDITIONING UNIT - BY OTHERS. PROVIDE FINAL CONNECTIONS.
AFF	- ABOVE FINISHED FLOOR
AFG	- ABOVE FINISHED GRADE
AHU	- AIR HANDLING UNIT - BY OTHERS. PROVIDE FINAL CONNECTIONS.
ATS	- AUTOMATIC TRANSFER SWITCH - SEE SPECIFICATIONS
B	- BOILER - BY OTHERS. PROVIDE FINAL CONNECTIONS.
B	- CABINET HEATER - BY OTHERS. PROVIDE FINAL CONNECTIONS.
CHL	- CHILLER - BY OTHERS. PROVIDE FINAL CONNECTIONS.
CU	- CONDENSING UNIT - BY OTHERS. PROVIDE FINAL CONNECTIONS.
CT	- COOLING TOWER - BY OTHERS. PROVIDE FINAL CONNECTIONS.
DC	- DUST COLLECTOR - BY OTHERS. PROVIDE FINAL CONNECTIONS.
DH	- ELECTRIC DUCT HEATER - BY OTHERS. PROVIDE FINAL CONNECTIONS.
EBB	- ELECTRIC BASEBOARD - BY OTHERS. PROVIDE FINAL CONNECTIONS.
EF	- EXHAUST FAN - BY OTHERS. PROVIDE FINAL CONNECTIONS.
EN	- EXISTING LOCATION - NEW DEVICE AND COVERPLATE
EP	- EXPLOSION PROOF
ER	- EXISTING ITEM TO BE REMOVED
ERL	- EXISTING ITEM TO BE RELOCATED
ERU	- ENERGY RECOVERY UNITS - BY OTHERS. PROVIDE FINAL CONNECTIONS.
EUH	- ELECTRIC UNIT HEATER - BY OTHERS. PROVIDE FINAL CONNECTIONS.
EX	- EXISTING ITEM TO REMAIN
FC	- FAN COIL UNIT - BY OTHERS. PROVIDE FINAL CONNECTIONS.
FPV	- FAN POWERED VARIABLE AIR VOLUME BOX - BY OTHERS. PROVIDE FINAL CONNECTIONS.
HP	- HEAT PUMP UNIT - BY OTHERS. PROVIDE FINAL CONNECTIONS.
MAU	- KITCHEN HOOD MAKEUP AIR UNIT - BY OTHERS. PROVIDE FINAL CONNECTIONS.
P	- PUMP - BY OTHERS. PROVIDE FINAL CONNECTIONS.
PTAC	- PACKAGED TERMINAL A/C UNIT - BY OTHERS. PROVIDE FINAL CONNECTIONS.
TL	- TWIST-LOCK
UH	- UNIT HEATER - BY OTHERS. PROVIDE FINAL CONNECTIONS.
UNO	- UNLESS NOTED OTHERWISE
UV	- UNIT VENTILATOR - BY OTHERS. PROVIDE FINAL CONNECTIONS.
WH	- WALL HEATER - BY OTHERS. PROVIDE FINAL CONNECTIONS.
WP	- WEATHER PROOF
NFDS	- NON FUSED DISCONNECT SWITCH
FDS	- FUSED DISCONNECT SWITCH
C	- INDICATES DEVICES TO BE INSTALLED ABOVE COUNTERTOP OR BACKSPASH. COORDINATE EXACT LOCATION WITH ARCHITECTURAL CASEWORK DRAWINGS.
+42"	- DENOTES DEVICE MOUNTING HEIGHT ABOVE FINISHED FLOOR.

NOTE: THE ABOVE ELECTRICAL LEGEND IS STANDARD. SOME ITEMS LISTED ARE NOT NECESSARILY USED ON THIS PROJECT. ALL ITEMS LISTED SHALL BE PROVIDED BY THIS CONTRACTOR UNLESS NOTED OTHERWISE.



CONSOLIDATED
ENGINEERS

1022 James Drive
Leopold, PA 15033
Tel 610-916-1600 Fax 610-916-1610
Internet www.consolidatedengineers.com

CIE



AEM ARCHITECTS, INC.

3700 PERKINSON AVENUE, READING, PA 19606-2785
Phone: 610-779-3320 Fax: 610-779-3322 www.aem-arch.com



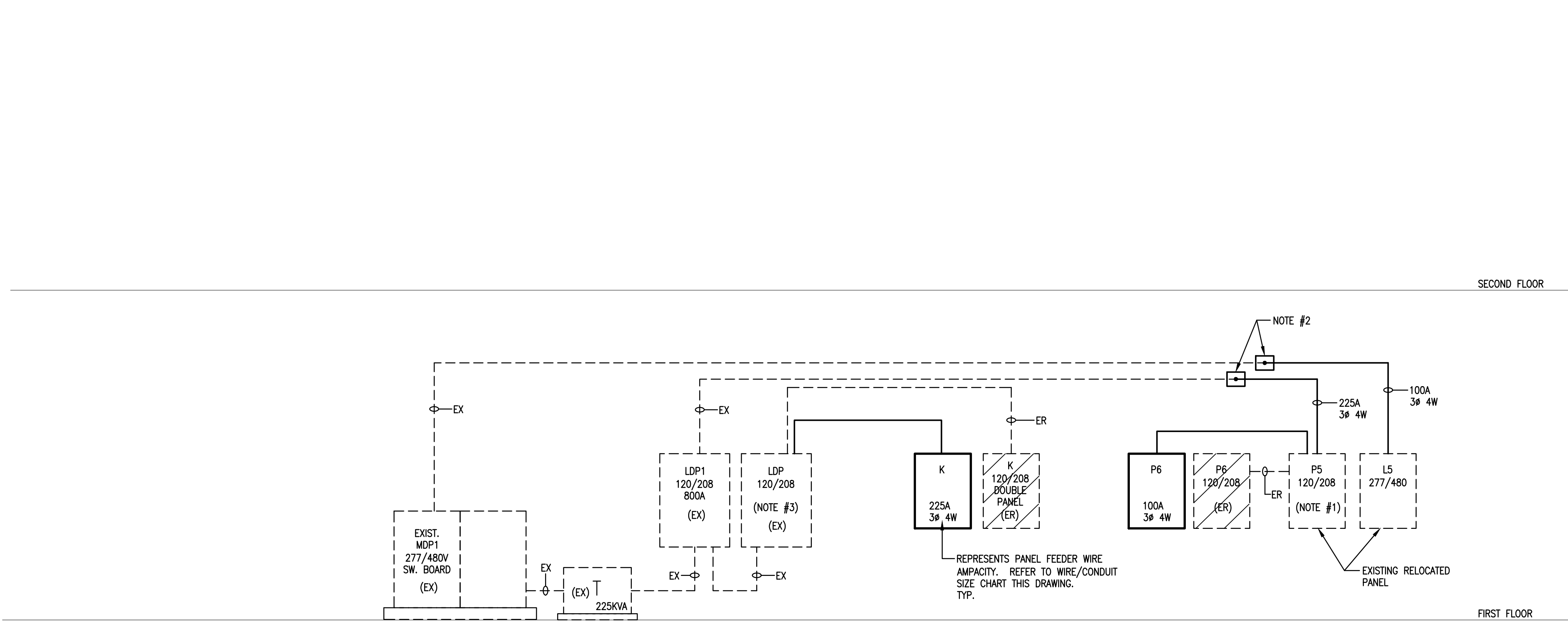
ELECTRICAL LEGEND

RENOVATIONS TO BERKS COUNTY INTERMEDIATE UNIT 14
BCIU MAIN OFFICE
1111 COMMONS BLVD, READING, PA 19605

ALL DIMENSIONS AND EXISTING CONDITIONS
SHALL BE VERIFIED AND CORRECTED BY THE CONTRACTOR AT THE SITE.

JOB NO.: 24015.00
DRAWN BY: RG
DATE: 10.15.25

E-1



POWER RISER DIAGRAM

NO SCALE:

RISER DIAGRAM NOTES:

1. CONNECT PANEL 'P6' FEEDER TO EXISTING 100A/3P CIRCUIT BREAKER.
2. PROVIDE PULLBOX, SIZE AS REQUIRED, IN ACCESSIBLE CEILING SPACE ABOVE CURRENT PANEL LOCATION, INTERCEPT EXISTING FEEDER, SPLICE AND EXTEND NEW WIRING AND CONDUIT TO RELOCATED PANEL LOCATION AND CONNECT. REMOVE SECTION OF FEEDER BETWEEN PULLBOX AND CURRENT PANEL LOCATION.
3. CONNECT PANEL 'K' FEEDER TO EXISTING 225A/3P CIRCUIT BREAKER.

UTILIZE THIS WIRE CHART FOR DETERMINING WIRE AND CONDUIT SIZE REQUIRED, UNLESS NOTED OTHERWISE, FOR EACH PANEL FEEDER SHOWN ON POWER RISER DIAGRAM AND EMERGENCY POWER RISER DIAGRAM BASED UPON WIRE AMPACITY AND WIRE QUANTITY INDICATED AT EACH PANEL, DISCONNECT AND/OR TRANSFORMER.

WIRE / CONDUIT SIZE CHART					
Wire Ampacity	Parallel Number of Sets	Wire Size (CU) Conductor / Ground (THHN/THWN) or XHHW-2	Conduit Size		
			1ø,2W+G	1ø,3W+G 3ø,3W+G	3ø,4W+G
30	----	#8 / #10	3/4"	3/4"	3/4"
50	----	#6 / #10	1"	1"	1"
60	----	#4 / #8	1"	1"	1 1/4"
70	----	#4 / #8	1"	1"	1 1/4"
80	----	#3 / #8	1"	1 1/4"	1 1/4"
90	----	#2 / #8	1"	1 1/4"	1 1/4"
100	----	#1 / #6	1 1/4"	1 1/2"	1 1/2"
110	----	#1 / #6	----	1 1/2"	1 1/2"
125	----	#1 / #6	----	1 1/2"	1 1/2"
150	----	#1/0 / #6	----	1 1/2"	2"
175	----	#2/0 / #6	----	2"	2"
200	----	#3/0 / #6	----	2"	2"
225	----	#4/0 / #4	----	2"	2 1/2"
250	----	250kcmil / #4	----	2 1/2"	3"
300	----	300kcmil / #4	----	3"	3"
350	----	500kcmil / #2	----	3"	4"
400	----	500kcmil / #2	----	3"	4"
450	2	#4/0 / #2	----	2"	2 1/2"
500	2	#4/0 / #2	----	2"	2 1/2"
600	2	300kcmil / #1	----	2 1/2"	3"
700	2	400kcmil / #1/0	----	3"	4"
800	2	500kcmil / #1/0	----	3"	4"
1000	3	400kcmil / #2/0	----	3"	4"
1200	4	350kcmil / #3/0	----	3"	3"
Ground Feed	Provide #4/0 cu grounding connection to cold water & sprinkler pipe, gas piping, concrete slab rebar and building steel per N.E.C. article 250.				
Generator start ckt	Generator start circuits in 1" conduit.				
Note: Ground sizes are not for service entrances.Copper compression connectors must be used at both ends of cables.					

CONSOLIDATED
ENGINEERS

1022 James Drive
Leesport, PA 19533
Tel 610-916-1600 Fax 610-916-1610
Internet www.consolidatedengineers.com



AEM ARCHITECTS INC.

3700 PERKINS AVENUE, READING, PA 19606-2795
Phone: 610-793-3220 Fax: 610-793-8222 www.aem-arch.com

POWER RISER DIAGRAM

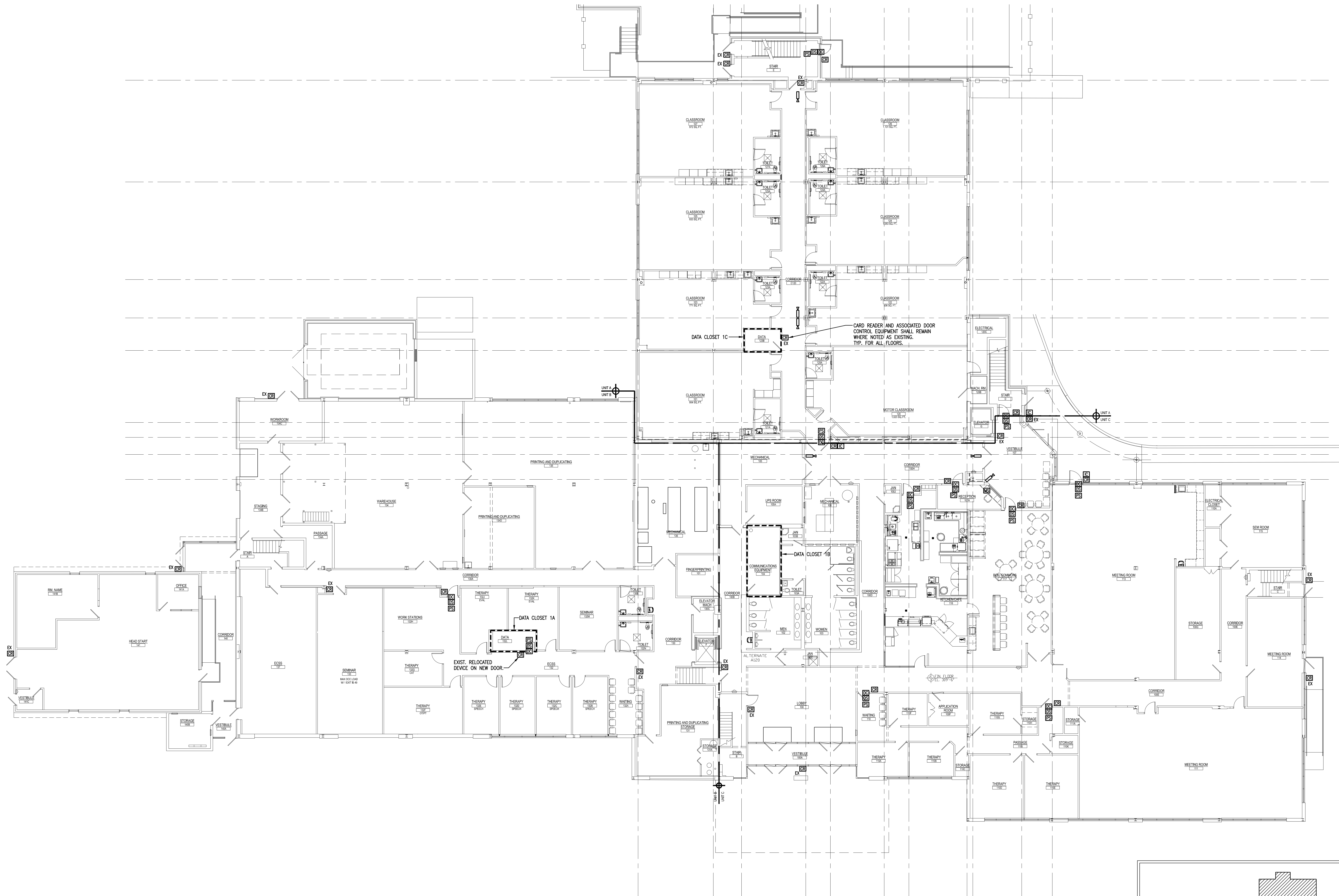
RENOVATIONS TO BERKS COUNTY INTERMEDIATE UNIT 14

BCIU MAIN OFFICE

1111 COMMONS BLVD, READING, PA 19605

ALL DIMENSIONS AND EXISTING CONDITIONS
WILL BE CHECKED AND VERIFIED
BY THE CONTRACTOR AT THE SITE.

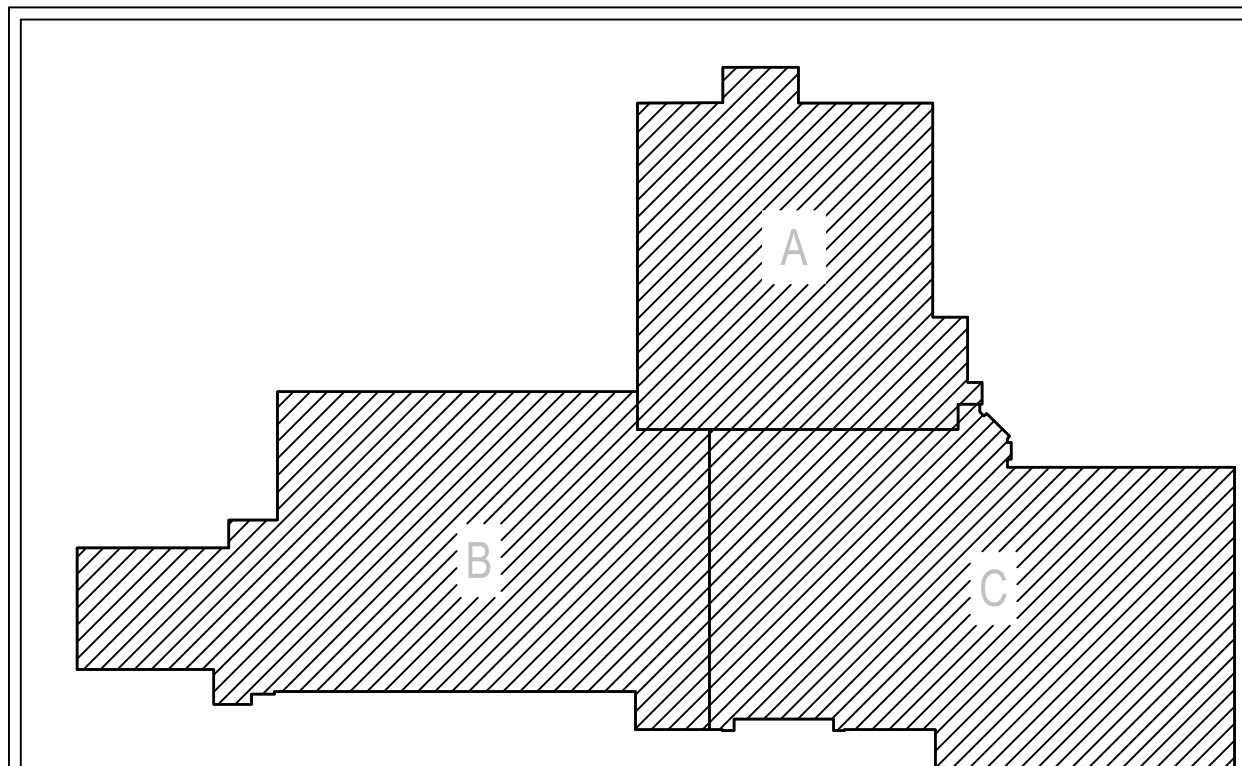
JOB NO: 24015.00
DRAWN BY: RG
DATE: 10.15.25



FIRST FLOOR PLAN - SYSTEMS

SCALE: 3/32" = 1'-0"

RUN ALL UNIT 'A' DATA CABLING TO CLOSET 1C. RUN ALL UNIT 'B' DATA CABLING TO CLOSET 1A. RUN ALL UNIT 'C' DATA CABLING TO CLOSET 1B. REFER TO POWER PLANS FOR QUANTITIES.



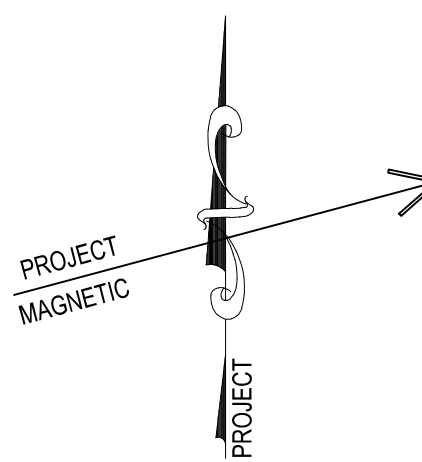
KEY PLAN
SCALE: N.T.S.

FIRST FLOOR PLAN - SYSTEMS

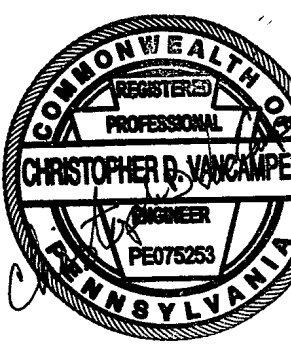
RENOVATIONS TO BERKS COUNTY INTERMEDIATE UNIT 14
BCIU MAIN OFFICE
1111 COMMONS BLVD, READING, PA 19605

ALL DIMENSIONS AND EXISTING CONDITIONS
WILL BE CHECKED AND VERIFIED
BY THE CONTRACTOR AT THE SITE.
JOB NO.: 24015.00
DRAWN BY: RG
DATE: 10.15.25

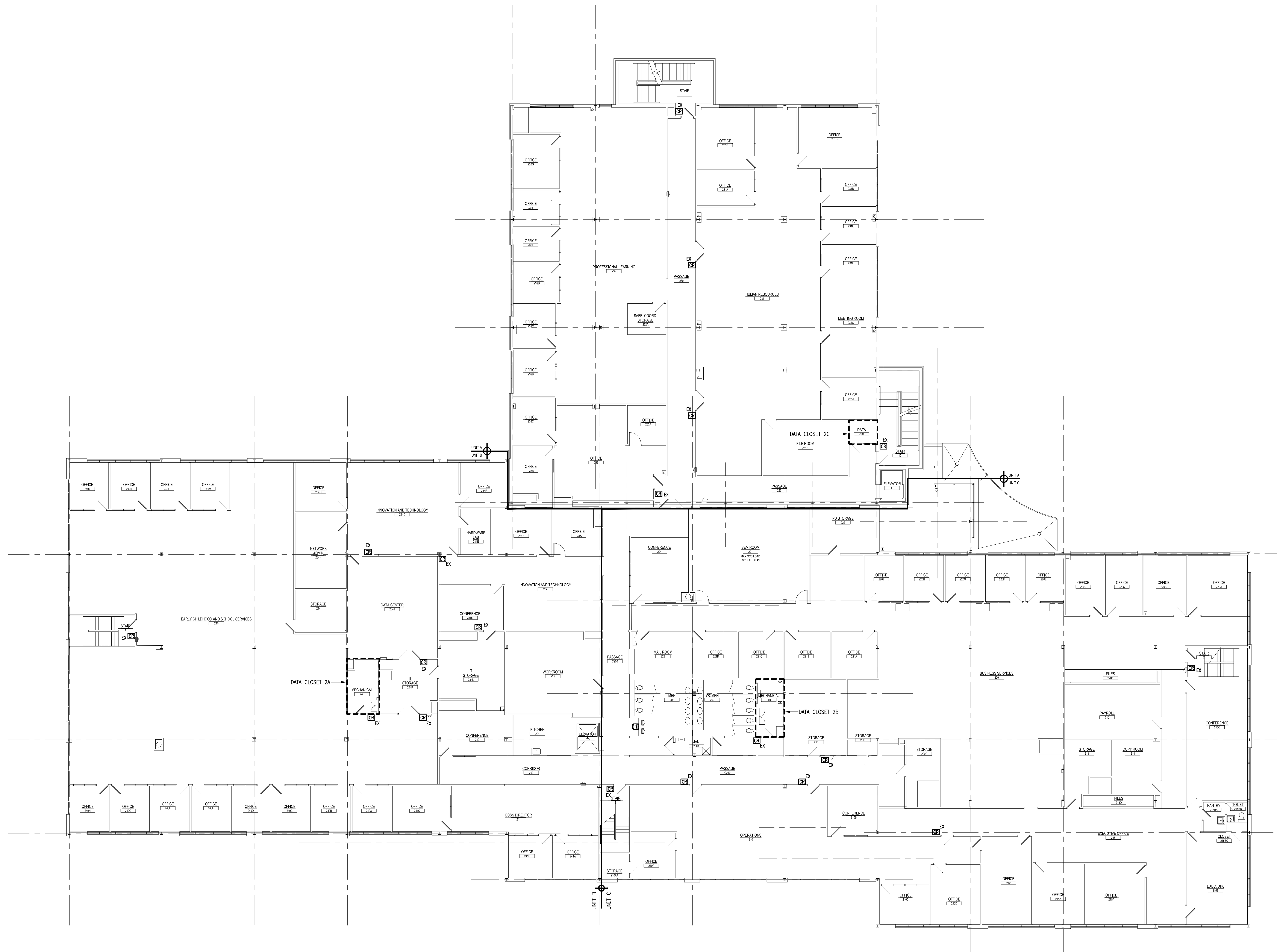
E-3

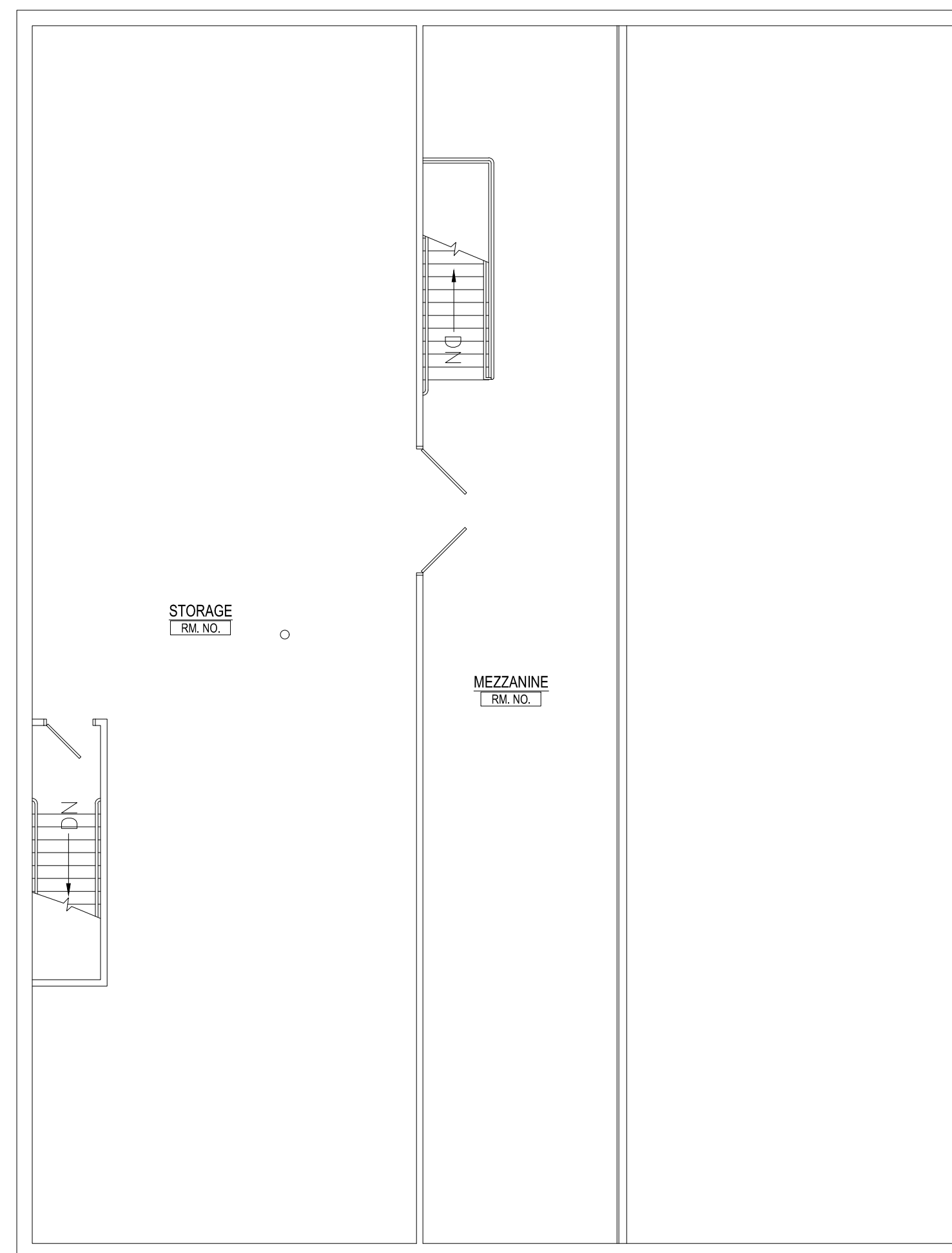


CONSOLIDATED
ENGINEERS
1022 James Drive
Leopold, PA 19533
Tel: 610-916-1600 Fax: 610-916-1610
Internet: www.consultantdesigners.com

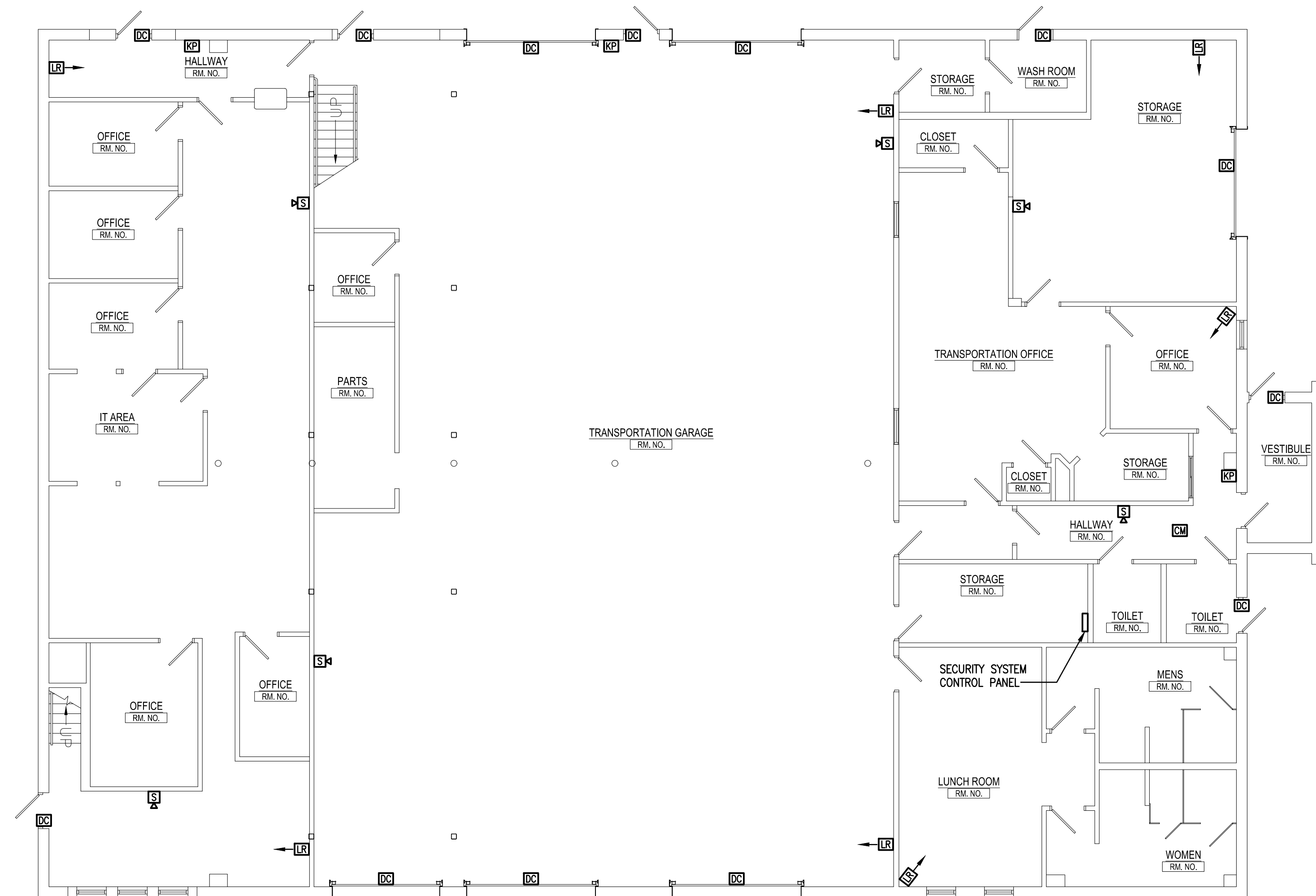


AEM ARCHITECTS, INC.
3700 PERKINS AVENUE, READING, PA 19606-2785
Phone: 610-79-3320 Fax: 610-79-3322
www.aem-arch.com

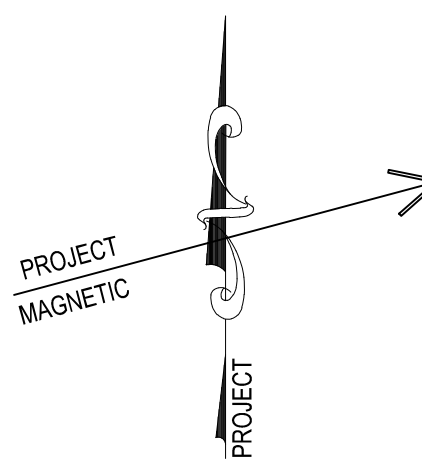





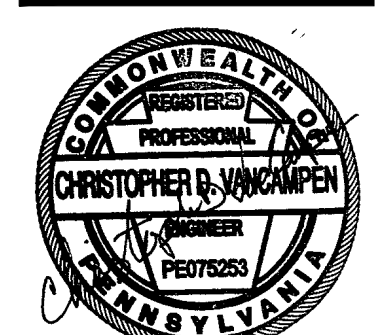
READING CREST SECOND FLOOR PLAN - SYSTEMS



READING CREST FIRST FLOOR PLAN - SYSTEMS



CONSOLIDATED
**ENGINEERS**
1022 James Drive
Leesport, PA 19533
Tel 610-916-1600 Fax 610-916-1610
Internet www.consolidatedengineers.com



AEM | ARCHITECTS INC.

37300 PERKIOMEN AVENUE, READING, PA 19606-2795
Phone: 610.779.3220 Fax: 610.779.9022
www.aem-arch.com

READING CREST FLOOR PLANS - SYSTEMS

RENOVATIONS TO BERKS COUNTY INTERMEDIATE UNIT 14
BCIU MAIN OFFICE
1111 COMMONS BLVD, READING, PA 19605

BCIU MAIN OFFICE

1111 COMMONS BLVD, READING, PA 19605

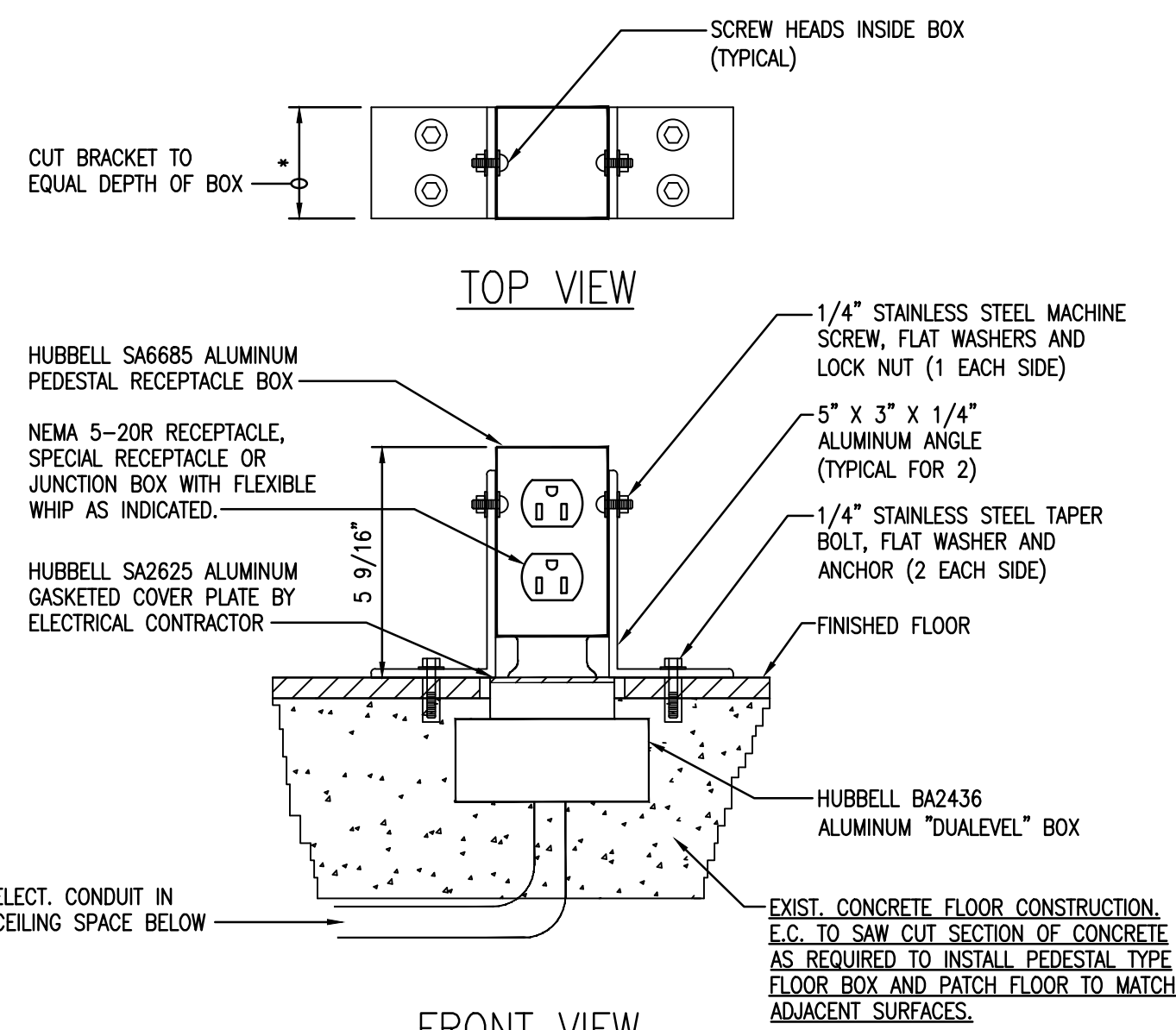
JOB NO.: 24015.00
DRAWN BY: RG
DATE: 10.15.25

DRAWN BY: RG

ALL WORK INDICATED ON THE DRAWING SHALL BE DELETED UNDER ALTERNATE BID.

SQUARE'D NO. - SINGLE SECTION									
WITH GRD. BAR		MAINS: 225A WLO		A/C RATING: 10,000		FED FROM: LDP			
PANEL: K		MOUNTING: FLUSH		WIRES: 4		POLES: 72			
VOLTS: 120/208				LOCATION: KITCHEN 116					
REMARKS & LOCATION	LOAD	IBKR	CKT	A	B	C	CKT	BKR	LOAD
GARBAGE DISPOSER	3168	20	1				2	20	500
EXHAUST HOOD CONTROL CABINET			3				4	20	500
UNDERCOUNTER REFRIGERATOR			5				6	20	300
HEATED STONE SHELVES			7				8	20	900
FOOD SHIELD			9				10	20	1200
DROP-IN HOT WELL			11				12	20	620
SANDWICH PREP REFRIG.			13				14	20	570
MIXER			15				16	20	1680
POPCORN MACHINE			17				18	20	1140
DISPLAY REFRIGERATOR			19				20	20	720
CONVENIENCE RECPT'S			21				22	20	540
CONVENIENCE RECPT'S			23				24	20	540
CONVECTION OVEN TOP			25				26	20	9000
CONVECTION OVEN BOTTOM			27				28	70	9000
SHUNT TRIP SPACE	0	0	31				32	0	0
RECPT'S BCIU COMMONS	720	20	33				34	20	180
RECPT'S BCIU COMMONS	720	20	35				36	20	180
RECPT'S BCIU COMMONS	540	20	37				38	20	180
SPARE	0	20	39				40	20	400
SPARE	0	20	41				42	20	600
EF-6 (ROOF)	900	20	43				44	20	0
SPARE	0	20	45				46	20	0
SPARE	0	20	47				48	20	0
SPARE	0	20	49				50	20	0
SPARE	0	20	51				52	20	0
SPARE	0	20	53				54	20	0
BLANK			55				56		
BLANK			57				58		
BLANK			59				60		
BLANK			61				62		
BLANK			63				64		
BLANK			65				66		
BLANK			67				68		
BLANK			69				70		
BLANK			71				72		
BLANK			73				74		
BLANK			75				76		
BLANK			77				78		
BLANK			79				80		
BLANK			81				82		
BLANK			83				84		

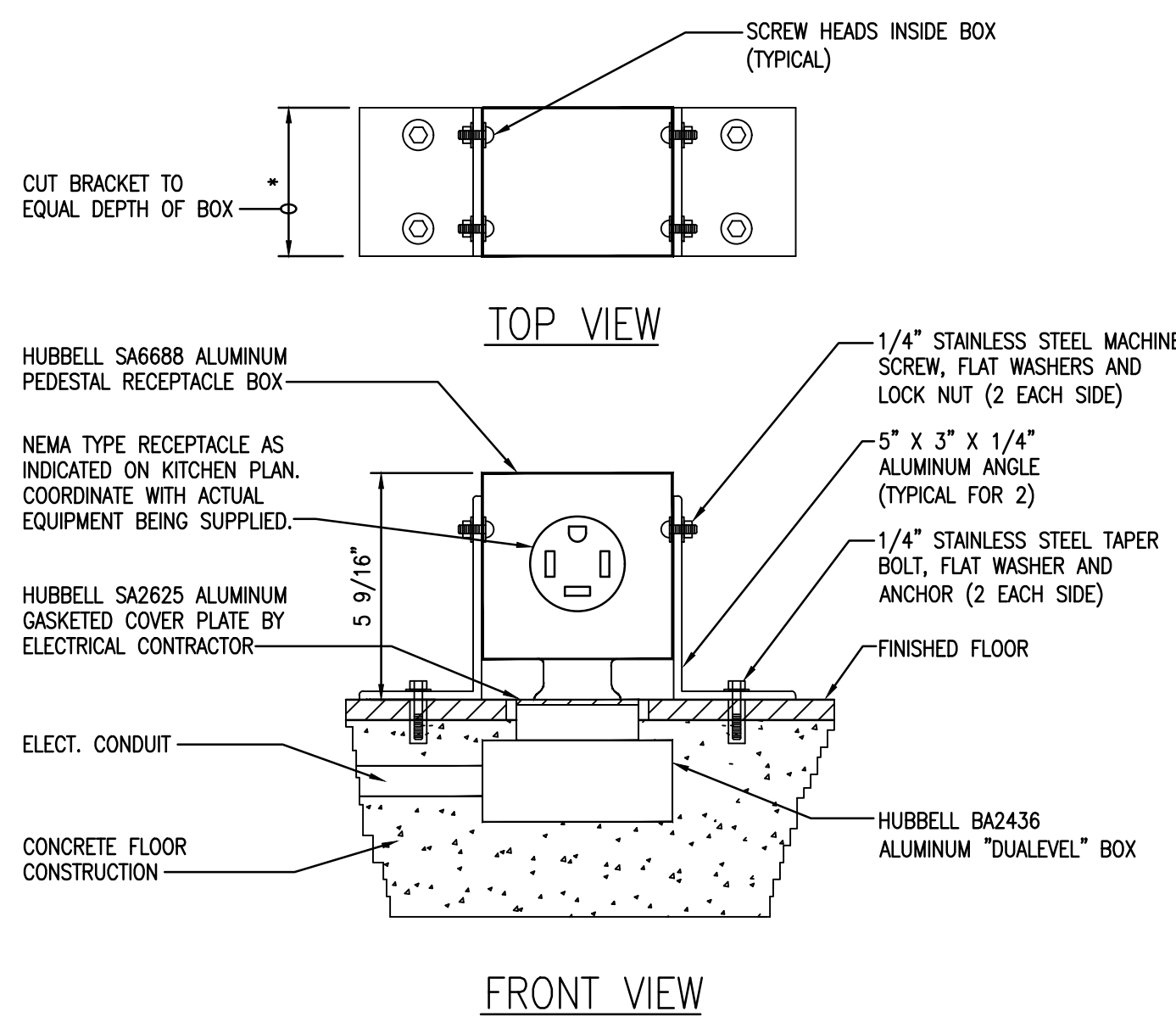
GF = GROUND FAULT PROTECTED BREAKER
ST = SHUNT TRIP BREAKER
HL = HANDLE LOCK ATTACHMENT
PL = HANDLE PAD LOCK ATTACHMENT



NOTE: SHOWN IN OPERATING CONFIGURATION - TO DISASSEMBLE, REMOVE PEDESTAL RECEPTACLE AND REINSTALL THREADED PLUG IN THE GASKET COVER PLATE.

KITCHEN PEDESTAL RECEPTACLE DETAIL 'A'

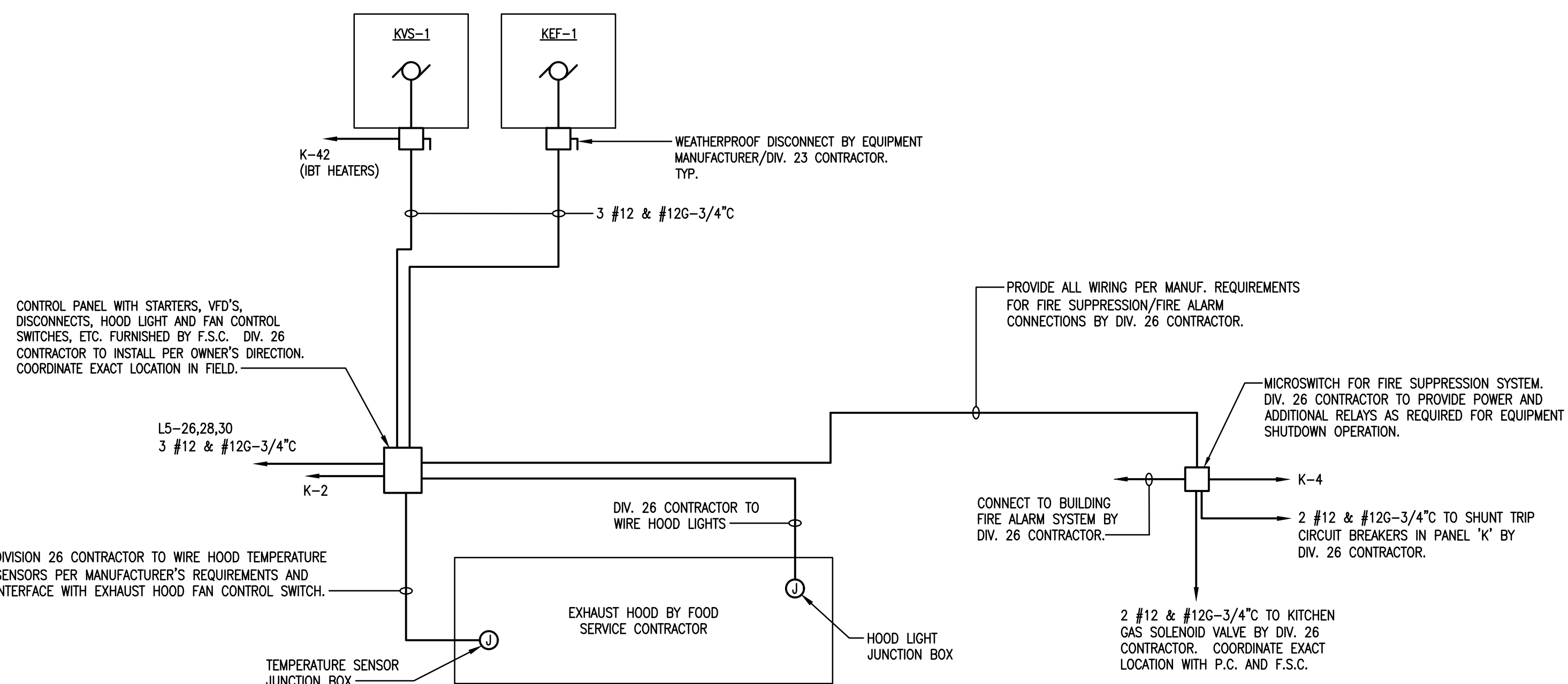
NO SCALE



NOTE: SHOWN IN OPERATING CONFIGURATION - TO DISASSEMBLE, REMOVE PEDESTAL RECEPTACLE AND REINSTALL THREADED PLUG IN THE GASKET COVER PLATE.

KITCHEN PEDESTAL RECEPTACLE DETAIL 'B'

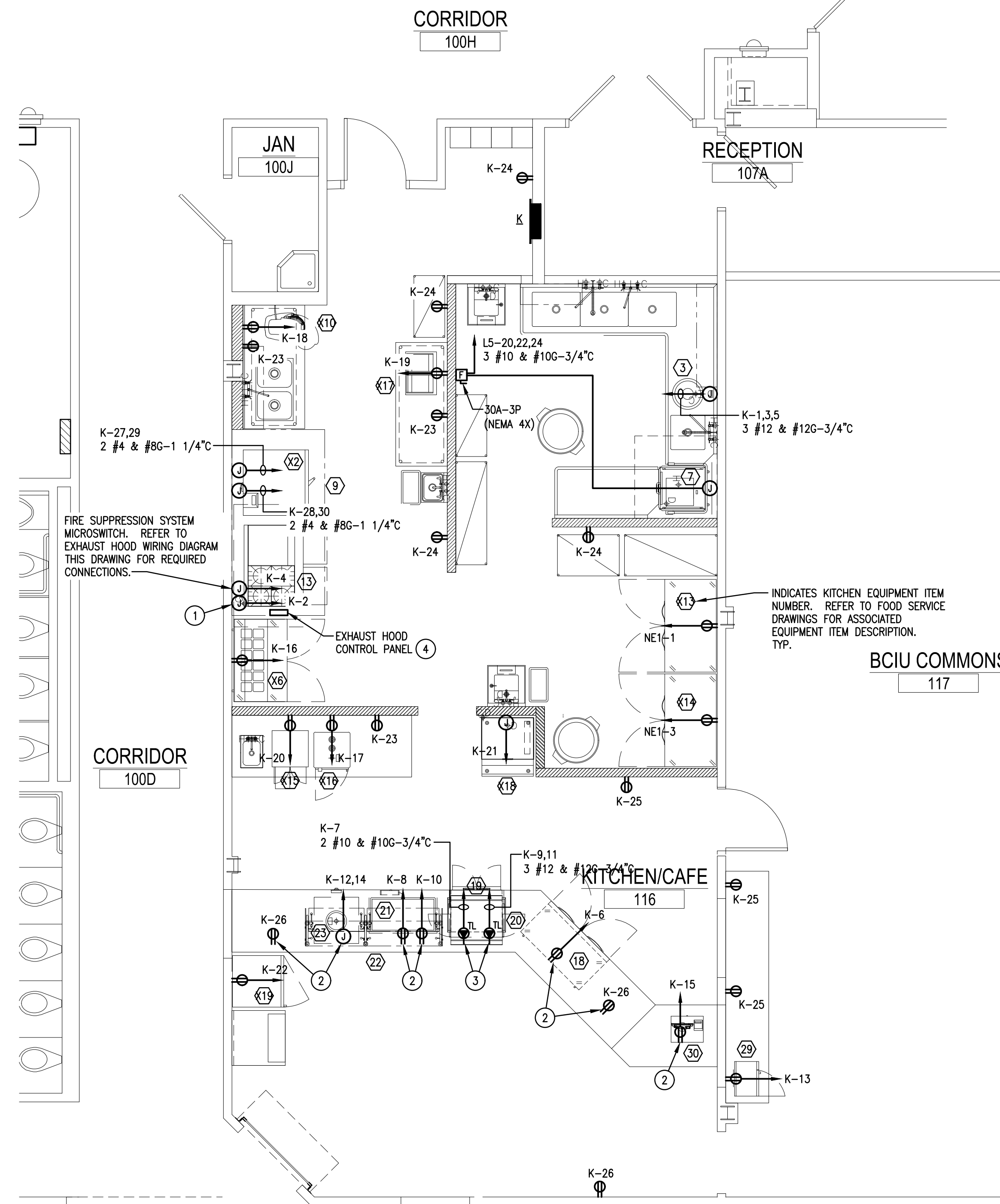
NO SCALE



- NOTES:
- KYS-1 UNIT SHALL BE CONTROLLED SO THAT UPON ACTIVATION OF FIRE SUPPRESSION SYSTEM, KYS-1 SHUTS OFF AND KEF-1 EXHAUST FAN REMAINS ENERGIZED AND RAMP TO 100%.
 - FOOD SERVICE CONTRACTOR TO PROVIDE HEAT/TEMPERATURE SENSORS WITHIN EXHAUST HOOD.

KITCHEN EXHAUST HOOD WIRING DIAGRAM

NO SCALE



ENLARGED KITCHEN PLAN - POWER

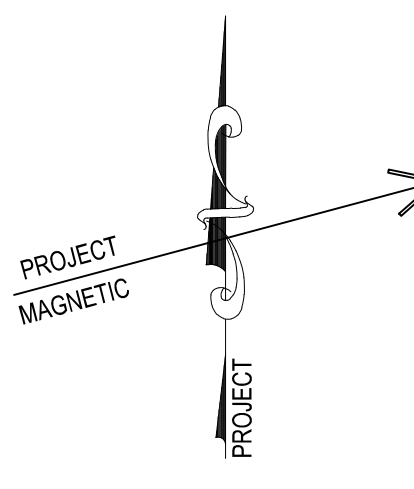
SCALE: 1/4" = 1'-0"

DRAWING NOTES:

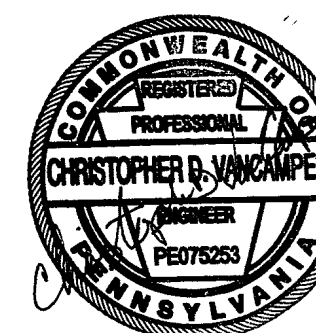
- PROVIDE CONNECTION TO EXHAUST HOOD VENTILATOR LIGHTS AND TEMPERATURE SENSOR. REFER TO KITCHEN EXHAUST HOOD WIRING DIAGRAM THIS DRAWING.
- REFER TO KITCHEN PEDESTAL RECEPTACLE DETAIL 'A' ON THIS DRAWING.
- REFER TO KITCHEN PEDESTAL RECEPTACLE DETAIL 'B' ON THIS DRAWING.
- REFER TO KITCHEN EXHAUST HOOD WIRING DIAGRAM ON THIS DRAWING FOR WORK RELATED TO EXHAUST HOOD AND ASSOCIATED EQUIPMENT.

KITCHEN ROUGH-IN NOTES:

- REFER TO FOOD SERVICE ROUGH-IN DRAWINGS FOR ALL ELECTRICAL EQUIPMENT ROUGH-IN HEIGHTS.
- E.C. SHALL PROVIDE ALL FINAL CONNECTIONS TO KITCHEN EQUIPMENT UNLESS NOTED OTHERWISE ON THE FOOD SERVICE ROUGH-IN DRAWINGS.
- REFER TO FOOD SERVICE ROUGH-IN DRAWINGS FOR EXACT RECEPTACLE CONFIGURATIONS TO MATCH EQUIPMENT CORD AND PLUG CONFIGURATIONS.



CONSOLIDATED
ENGINEERS



AEM ARCHITECTS INC.
3700 PERKIDOMEN AVENUE, READING, PA 19606-2795
Phone: 610/793-3220
Fax: 610/793-3222
www.aem-arch.com

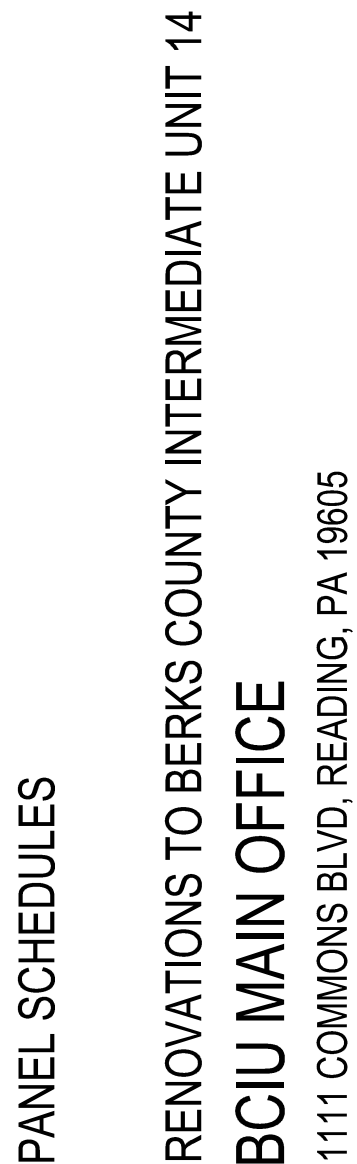
ENLARGED KITCHEN PLAN - POWER
RENOVATIONS TO BERKS COUNTY INTERMEDIATE UNIT 14
BCIU MAIN OFFICE
1111 COMMONS BLVD, READING, PA 19605

ALL DIMENSIONS AND EXISTING CONDITIONS
SHALL BE CHECKED AND VERIFIED
BY THE CONTRACTOR AT THE SITE.

JOB NO.: 24015.00
DRAWN BY: RG
DATE: 10.15.25

EXISTING PANEL													FED FROM:																				
WITH GRD. BAR PANEL: P1 VOLTS: 120/208													WIRING: 4 POLLS: DATA CLOSET 123B																				
MAINS: 225A M.L.O. MOUNTING: SURFACE													Ø: 3																				
REMARKS & LOCATION													A/C RATING: 4 LOCATION:																				
LOAD													BKR																				
CKT													A B C																				
CKT													BKR																				
REMARKS & LOCATION													REMARKS & LOCATION																				
SPB	RECPT'S MOTOR CLASSROOM												1080	20	1				2	20	720	RECPT'S CLASSROOM											
SPB	RECPT'S MOTOR CLASSROOM, TOILET												1080	20	3				4	20	720	RECPT'S CLASSROOM, TOILET											
SPB	RECPT'S VESTIBULE, RECEPTION												1080	20	5				6	20	1000	RECPT. MICROWAVE CLASSROOM											
SPB	RECPT. COPIER RECEPTION												1000	20	7				8	20	360	RECPT'S COUNTER CLASSROOM											
	SPARE												0	20	9				10	20	1000	RECPT. REFRIG. CLASSROOM											
	SPARE												0	20	11				12	20	0	SPARE											
	SPARE												0	20	13				14	20	0	SPARE											
	SPARE												0	20	15				16	20	0	SPARE											
	SPARE												0	20	17				18	20	0	EXISTING CIRCUIT											
	SPARE												0	20	19				20	20	0	SPARE											
	SPARE												0	20	21				22	20	0	SPARE											
	SPARE												0	20	23				24	20	0	SPARE											
	SPARE												0	20	25				26	20	0	SPARE											
	SPARE												0	20	27				28	20	0	SPARE											
	SPARE												0	20	29				30	20	0	SPARE											
	SPARE												0	20	31				32	20	0	SPARE											
	SPARE												0	20	33				34	20	0	SPARE											
	SPARE												0	20	35				36	20	0	SPARE											
	SPARE												0	20	37				38	15	0												
RNCB	CU-1 & AC-1												2500	20	39				40			0 EXISTING CIRCUIT											
															2	41				42	3												

EXISTING PANEL													FED FROM:																					
WITH GRD. BAR													WITH GRD. BAR																					
PANEL: P2													PANEL: P2																					
VOLTS: 120 / 208													VOLTS: 120 / 208																					
MOUNTING: SURFACE													MOUNTING: SURFACE																					
A/C RATING: 4													A/C RATING: 4																					
LOCATION: DATA CLOSET 123B													LOCATION: DATA CLOSET 123B																					
REMARKS & LOCATION		LOAD	BKR	CKT	A	B	C	CKT	BKR	LOAD	REMARKS & LOCATION		LOAD	BKR	CKT	A	B	C	CKT	BKR	LOAD	REMARKS & LOCATION		LOAD	BKR	CKT	A	B	C	CKT	BKR	LOAD	REMARKS & LOCATION	
SPB	RECPT'S CLASSROOM	900	20	1				2	20	900		RECPT'S CLASSROOM	900	20	1				2	20	900		RECPT'S CLASSROOM	900	20	1				2	20	900		RECPT'S CLASSROOM
SPB	RECPT'S CLASSROOM, TOILET	720	20	3				4	20	720		RECPT'S CLASSROOM, TOILET	720	20	3				4	20	720		RECPT'S CLASSROOM, TOILET	720	20	3				4	20	720		RECPT'S CLASSROOM, TOILET
SPB	RECPT. MICROWAVE CLASSROOM	1000	20	5				6	20	1000		RECPT. MICROWAVE CLASSROOM	1000	20	5				6	20	1000		RECPT. MICROWAVE CLASSROOM	1000	20	5				6	20	1000		RECPT. MICROWAVE CLASSROOM
SPB	RECPT'S COUNTER CLASSROOM	360	20	7				8	20	360		RECPT'S COUNTER CLASSROOM	360	20	7				8	20	360		RECPT'S COUNTER CLASSROOM	360	20	7				8	20	360		RECPT'S COUNTER CLASSROOM
SPB	RECPT. REFRIG. CLASSROOM	1000	20	9				10	20	1000		RECPT. REFRIG. CLASSROOM	1000	20	9				10	20	1000		RECPT. REFRIG. CLASSROOM	1000	20	9				10	20	1000		RECPT. REFRIG. CLASSROOM
SPB	RECPT'S CLASSROOM	900	20	11				12	20	900		RECPT'S CLASSROOM	900	20	11				12	20	900		RECPT'S CLASSROOM	900	20	11				12	20	900		RECPT'S CLASSROOM
SPB	RECPT'S CLASSROOM, TOILET	720	20	13				14	20	720		RECPT'S CLASSROOM, TOILET	720	20	13				14	20	720		RECPT'S CLASSROOM, TOILET	720	20	13				14	20	720		RECPT'S CLASSROOM, TOILET
SPB	RECPT. MICROWAVE CLASSROOM	1000	20	15				16	20	1000		RECPT. MICROWAVE CLASSROOM	1000	20	15				16	20	1000		RECPT. MICROWAVE CLASSROOM	1000	20	15				16	20	1000		RECPT. MICROWAVE CLASSROOM
SPB	RECPT'S COUNTER CLASSROOM	360	20	17				18	20	360		RECPT'S COUNTER CLASSROOM	360	20	17				18	20	360		RECPT'S COUNTER CLASSROOM	360	20	17				18	20	360		RECPT'S COUNTER CLASSROOM
SPB	RECPT. REFRIG. CLASSROOM	1000	20	19				20	20	1000		RECPT. REFRIG. CLASSROOM	1000	20	19				20	20	1000		RECPT. REFRIG. CLASSROOM	1000	20	19				20	20	1000		RECPT. REFRIG. CLASSROOM
SPB	RECPT'S CLASSROOM, TOILET	1260	20	21				22	20	720		RECPT'S CLASSROOM, TOILET	1260	20	21				22	20	720		RECPT'S CLASSROOM, TOILET	1260	20	21				22	20	720		RECPT'S CLASSROOM, TOILET
	EXISTING CIRCUIT	0	20	23				24	20	0		EXISTING CIRCUIT	0	20	23				24	20	0		EXISTING CIRCUIT	0	20	23				24	20	0		EXISTING CIRCUIT
	EXISTING CIRCUIT	0	20	25				26	50	0		EXISTING CIRCUIT	0	20	25				26	50	0		EXISTING CIRCUIT	0	20	25				26	50	0		EXISTING CIRCUIT
	EXISTING CIRCUIT	0	20	27				28	2			EXISTING CIRCUIT	0	20	27				28	2			EXISTING CIRCUIT	0	20	27				28	2			EXISTING CIRCUIT
SPB	RECPT'S CORRIDOR	540	20	29				30	20	720		RECPT'S CLASSROOM, TOILET	540	20	29				30	20	720		RECPT'S CLASSROOM, TOILET	540	20	29				30	20	720		RECPT'S CLASSROOM, TOILET
	EXISTING CIRCUIT	0	20	31				32	20	1000		RECPT. MICROWAVE CLASSROOM	0	20	31				32	20	1000		RECPT. MICROWAVE CLASSROOM	0	20	31				32	20	1000		RECPT. MICROWAVE CLASSROOM
	EXISTING CIRCUIT	0	20	33				34	20	360		RECPT'S COUNTER CLASSROOM	0	20	33				34	20	360		RECPT'S COUNTER CLASSROOM	0	20	33				34	20	360		RECPT'S COUNTER CLASSROOM
	EXISTING CIRCUIT	0	20	35				36	20	1000		RECPT. REFRIG. CLASSROOM	0	20	35				36	20	1000		RECPT. REFRIG. CLASSROOM	0	20	35				36	20	1000		RECPT. REFRIG. CLASSROOM
	SPARE	0	60	37				38	20	0		EXISTING CIRCUIT	0	60	37				38	20	0		EXISTING CIRCUIT	0	60	37				38	20	0		EXISTING CIRCUIT
				39				40	20	0		EXISTING CIRCUIT			39				40	20	0		EXISTING CIRCUIT			39				40	20	0		EXISTING CIRCUIT
				41				42	20	0		EXISTING CIRCUIT			41				42	20	0		EXISTING CIRCUIT			41				42	20	0		EXISTING CIRCUIT
RNCB	RECPT. MICROWAVE CLASSROOM	1000	20	43				44	20			RECPT. MICROWAVE CLASSROOM	1000	20	43				44	20			RECPT. MICROWAVE CLASSROOM	1000	20	43				44	20			RECPT. MICROWAVE CLASSROOM
RNCB	RECPT. REFRIG. CLASSROOM	1000	20	45				46				RECPT. REFRIG. CLASSROOM	1000	20	45				46				RECPT. REFRIG. CLASSROOM	1000	20	45				46				RECPT. REFRIG. CLASSROOM
RNCB	RECPT'S COUNTER CLASSROOM	360	20	47				48				RECPT'S COUNTER CLASSROOM	360	20	47				48				RECPT'S COUNTER CLASSROOM	360	20	47				48				RECPT'S COUNTER CLASSROOM
	EXISTING CIRCUIT	0	20	49				50	20	0		EXISTING CIRCUIT	0	20	49				50	20	0		EXISTING CIRCUIT	0	20	49				50	20	0		EXISTING CIRCUIT
	SPARE	0	20	51				52	20	0		EXISTING CIRCUIT	0	20	51				52	20	0		EXISTING CIRCUIT	0	20	51				52	20	0		EXISTING CIRCUIT
	SPARE	0	20	53				54	20	0		EXISTING CIRCUIT	0	20	53				54	20	0		EXISTING CIRCUIT	0	20	53				54	20	0		EXISTING CIRCUIT
	BLANK			55				56				BLANK			55				56				BLANK			55				56			BLANK	
	BLANK			57				58				BLANK			57				58				BLANK			57				58			BLANK	
	BLANK			59				60				BLANK			59				60				BLANK			59				60			BLANK	
	BLANK			61				62				BLANK			61				62				BLANK			61				62			BLANK	
	BLANK			63				64				BLANK			63				64				BLANK			63				64			BLANK	
	BLANK			65				66				BLANK			65				66				BLANK			65				66			BLANK	
	BLANK			67				68				BLANK			67				68				BLANK			67				68			BLANK	
	BLANK			69				70				BLANK			69				70				BLANK			69				70			BLANK	
	BLANK			71				72				BLANK			71				72				BLANK			71				72			BLANK	
				73				74							73				74											73				
				75				76							75				76											75				
				77				78							77				78											77				
				79				80							79				80											79				
				81				82							81				82											81				
				83				84							83				84											83				



PANEL SCHEDULE LEGEND

GF – PROVIDE CIRCUIT BREAKER WITH GROUND FAULT CIRCUIT INTERRUPTER.

HL – PROVIDE BREAKER HANDLE LOCK ON/OFF ACCESSORY.

EPD – PROVIDE 30 MA, GROUND FAULT, EQUIPMENT PROTECTION RATED CIRCUIT BREAKER.

NCB – PROVIDE NEW CIRCUIT BREAKER IN EXISTING PANEL SPACE.

SPB – NEW CIRCUIT CONNECTED TO SPARE BREAKER. BREAKER MADE SPARE DURING PROJECT DUE TO EQUIPMENT DEMOLITION.

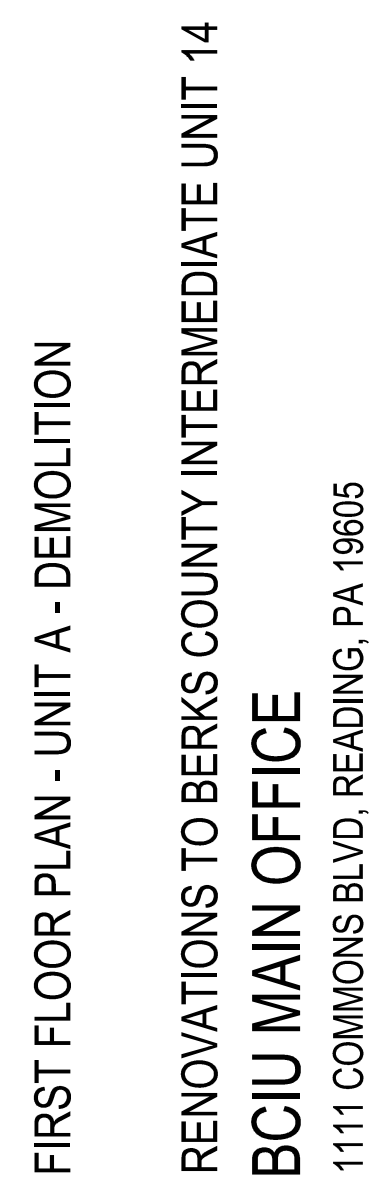
RNCB – REMOVE EXISTING BREAKER MADE SPARE DURING PROJECT DUE TO EQUIPMENT DEMOLITION AND PROVIDE NEW CIRCUIT BREAKER IN SAME SPACE.

ST – PROVIDE SHUNT TRIP CIRCUIT BREAKER.



1. REMOVE ALL ELECTRICAL EQUIPMENT WITHIN THIS AREA, UNLESS NOTED OR SHOWN OTHERWISE. ELECTRICAL EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, LIGHT FIXTURES, WIRING DEVICES, FLOOR BOXES, FIRE ALARM SYSTEMS, CLOCKS, SPARKERS, DATA OUTLETS, TELEPHONE OUTLETS, CCTV CAMERA CARD READERS, SECURITY DETECTOR, INTERCOM SYSTEMS, PANELS, WIRING, CONDUIT DISCONNECT SWITCHES, SURFACE RAUPACE, PULLBOXES, SUPPORTS, ETC. PATCH FLOOR AREAS WHERE BOXES ARE REMOVED AND CONDUITS PENETRATE BELOW FLOOR SURFACE, TO MATCH EXISTING FLOOR FINISHES. ITEMS TO BE REMOVED OR RELOCATED MUST BE SHOWN OR NOTED ON DEMOLITION OR NEW WORK DRAWINGS. TURN OVER CCTV SYSTEM CAMERAS TO OWNER.
2. ALL EXISTING EQUIPMENT IN THIS AREA TO REMAIN EXCLUDING LIGHT FIXTURES, ASSOCIATED CONTROLS AND WIRING.
3. REMOVE ALL LIGHT FIXTURES, ASSOCIATED CONTROLS AND WIRING IN THIS AREA. REMOVE ALL FIRE ALARM SYSTEM DEVICES AND WIRING IN THIS AREA.
4. REMOVE PANEL IN ITS ENTIRETY INCLUDING BACKBOX AND FEEDER.
5. REMOVE PANEL IN ITS ENTIRETY INCLUDING BACKBOX AND FEEDER. CAPTURE ALL ACTIVE BRANCH WIRING CIRCUITS ABOVE PANEL IN ACCESSIBLE CEILING PLENUM AS REQUIRED FOR EXTENSION TO NEW PANEL "P6". SEE NEW PANEL SCHEDULE FOR CIRCUIT EXTENSION INFORMATION.
6. RELOCATE PANEL TO LOCATION SHOWN ON DRAWING E-C2. INTERCEPT EXISTING FEEDER ABOVE ACCESSIBLE CEILING AS REQUIRED, SPlice WITH NEW WIRING TO MATCH EXISTING AND EXTEND TO RELOCATED PANEL. CAPTURE ALL ACTIVE BRANCH WIRING CIRCUITS ABOVE PANEL IN ACCESSIBLE CEILING PLENUM AS REQUIRED FOR EXTENSION TO NEW PANEL. SEE NEW PANEL SCHEDULE FOR CIRCUIT EXTENSION INFORMATION.
7. REMOVE ALL LIGHTING CONTROLS (SWITCHES AND OCCUPANCY SENSORS) AND ASSOCIATED WIRING TO LIGHT FIXTURES WITH THIS AREA. RELOCATE LIGHT FIXTURES TO REMAIN AND BE RE-WIRED WITH NEW CONTROLS AS NOTED ON DRAWING E-45.

1. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE EXISTING FACILITY AND ALL CONTRACT DRAWINGS TO DETERMINE THE EXTENT OF THE ELECTRICAL DEMOLITION WORK. THE CONTRACTOR SHALL COORDINATE THE DEMOLITION WITH ALL TRADES AND PUBLISH SCHEDULE. ELECTRICAL DEMOLITION SHALL INCLUDE ALL WORK AS OUTLINED BELOW.
2. THE CONTRACTOR SHALL DISCONNECT AND REMOVE ELECTRICAL EQUIPMENT AS SHOWN OR NOTED. ITEMS TO BE RETAINED TO BE REUSED IN THE NEW WORK OR NOTED ON THE DEMOLITION OR NEW WORK DRAWINGS. ALL ASSOC. EQUIPMENT SUPPORTS (ALL-THREAD ROD, UNISTRUT, ETC.) SHALL BE REMOVED ALSO.
3. REMOVE ALL EXISTING CONDUIT AND WIRING BEING ABANDONED. EXISTING CONDUITS IN GOOD CONDITION AND LOCATED CORRECTLY TO ACCOMMODATE NEW WORK MAY REMAIN IN PLACE AND BE REUSED PROVIDED THAT THE CONDUITS DO NOT AFFECT OTHER TRADE CONTRACTORS NEW WORK. THE CONTRACTOR SHALL PROVIDE PROPER SUPPORT AS PER NEC FOR ANY CONDUITS BEING REUSED.
4. RELOCATE OR EXTEND EXISTING CIRCUITS NOT BEING ABANDONED, AS REQUIRED ON A PERMANENT BASIS, TO ACCOMMODATE NEW WORK AND MAINTAIN CIRCUIT INTEGRITY.
5. CONTRACTOR SHALL PATCH WALLS, FLOORS, CEILING, ETC. TO MATCH ADJACENT SURFACES WHERE EXISTING EQUIPMENT IS BEING REMOVED. PATCHING SHALL BE PROVIDED FOR ALL OPENINGS, INCLUDING, BUT NOT LIMITED TO OPENINGS FOR CONDUITS, BOXES, ANCHORS, ETC. PATCHING SHALL INCLUDE FINAL FINISH TO MATCH ADJACENT SURFACES. CONTRACTOR SHALL REMOVE ALL RECESSED BOXES AND PATCH SURFACES.
6. THE OWNER SHALL HAVE FIRST CHOICE OF ANY EXISTING EQUIPMENT OR MATERIALS BEING REMOVED. THE CONTRACTOR SHALL DELIVER ITEMS TO BE SALVAGED BY THE OWNER TO DESIGNATED STORAGE AREA ON THE JOB SITE. ALL EQUIPMENT AND MATERIALS REJECTED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR. CONTRACTOR SHALL REMOVE THESE ITEMS FROM THE SITE AND PROPERLY DISPOSE OF THEM.
7. WHERE WIRING AND CONDUIT IS NOTED TO BE REMOVED IN SPECIFIC DEMOLITION DRAWING NOTES, THE WIRING AND CONDUIT SHALL BE REMOVED IN ITS ENTIRE BACK TO THE SOURCE.
8. E.C. SHALL BE RESPONSIBLE FOR REVIEWING ALL PLUMBING AND HVAC DRAWINGS FOR EQUIPMENT BEING REMOVED INCLUDING EXTERIOR EQUIPMENT ON GRADE AND ROOFTOP EQUIPMENT. ALL EXISTING PLUMBING AND HVAC EQUIPMENT SHOULD BE REMOVED. CONTRACTOR SHALL REMOVE AND ELECTRICALY DISCONNECTED BY THE E.C.. NOT E.C. SHALL REMOVE ALL ASSOC. WIRING, CONDUIT, SURFACE RACEWAY AND ELECTRICAL EQUIPMENT (STARTERS, DISCONNECTS, VFD'S, SWITCHES, DUCT DETECTORS, ROOF RECEPTACLES, ROOF EQUIPMENT LIGHTS SUPPORTED BY UNISTRUT, ETC.). ALL EXISTING PLUMBING AND HVAC EQUIPMENT TO BE REMOVED SHOULD BE NOTED THOSE DRAWINGS SHALL REMAIN ELECTRICALY CONNECTED UNLESS NOTED OTHERWISE ON THE ELECTRICAL DEMOLITION DRAWINGS.
9. AT LOCATIONS WHERE MULTIPLE LIGHT SWITCHES ARE BEING REMOVED AND REPLACED WITH (1) TOGGLE SWITCH OR DIMMER SWITCH, PROVIDE SWITCH BLANK PLIFIER PLATES AS REQUIRED.
10. PERMANENTLY SUPPORT ALL REMAINING LOW VOLTAGE CABLEING ABOVE ALL CEILINGS WITHIN ALL RENOVATED BUILDING AREAS TO ACCOMMODATE CEILING GRID REMOVAL.
11. TEMPORARILY SUPPORT ALL EXISTING ELECTRICAL CEILING MOUNTED DEVICES IN ENTIRE BUILDING (INCLUDING, BUT NOT LIMITED TO, FIRE ALARM, CCTV SYSTEM CAMERAS, MOTION DETECTORS) TO ACCOMMODATE CEILING GRID/ TILE REMOVAL THROUGHOUT BUILDING. COORDINATE WORK WITH G.C. AND OTHER TRADES. AFTER COMPLETION OF NEW CEILING GRID WORK, E.C. SHALL RENSALSH AND SECURE PER ALL EXISTING ELECTRICAL CEILING DEVICES TO BE REMOVED. THROUGHOUT THE BUILDING AND MAINTAIN ALL WIRING CONNECTIONS AS REQUIRED. PROVIDE NEW PERMANENT SUPPORT FOR EACH DEVICE. REFER TO ARCHITECTURAL DRAWINGS FOR EXTENT OF CEILING WORK.
12. ALL CEILING MOUNTED WIRELESS ACCESS POINTS (NODES) TO BE REMOVED BY E.C. DURING DEMOLITION AND TURNED OVER TO OWNER IT STAFF FOR STORAGE DURING CONSTRUCTION. E.C. SHALL LABEL EACH ACCESS POINT WITH ROOM NUMBER USING PAINTER'S TAPE AND MARKER. PRIOR TO TURNING OVER TO OWNER E.C. SHALL RENSALSH WIRELESS ACCESS POINTS WHERE NOTED BY SPECIFIC DRAWING NOTES ON THE POWER DRAWINGS.
13. BATTERIES HUNG IN EXISTING BATTERY CABINETS SHALL BE DISPOSED OF PROPERLY PER NATIONAL STATE AND LOCAL REQUIREMENTS.



JOB NO.: 24015.00
DRAWN BY: RG
DATE: 10.15.25

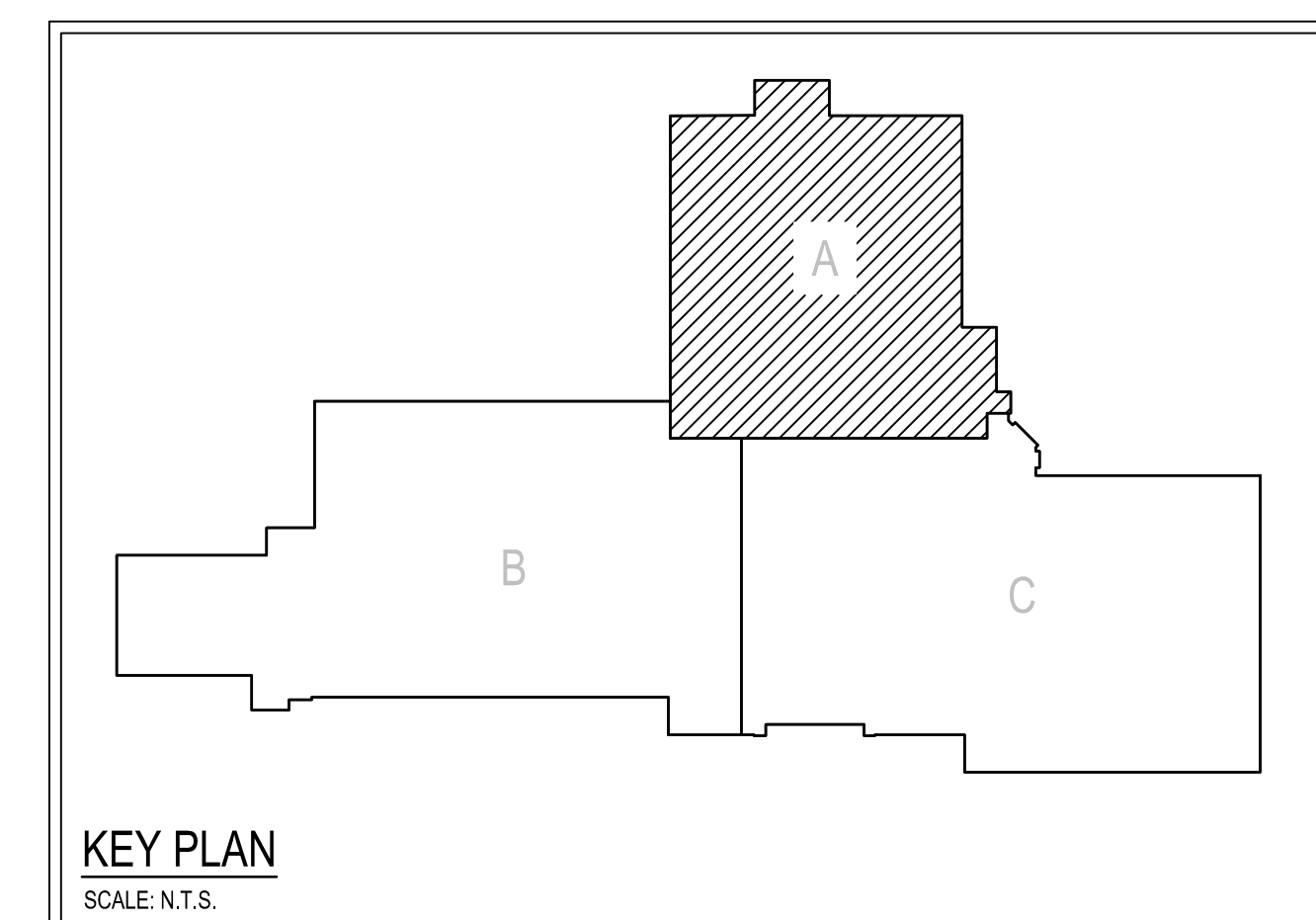
ED-A1



AEM ARCHITECTS INC.

37300 PERKIOMEN AVENUE, READING, PA 19606-2795
Phone: 610.779.3220 Fax: 610.779.9022 www.aem-arch.com

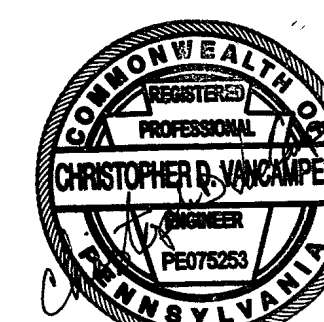
ED-A2





A diagram showing a vertical line labeled 'PROJECT' at the bottom. A horizontal line labeled 'PROJECT MAGNETIC' intersects it. An arrow points from the intersection towards the right.

**CONSOLIDATED
ENGINEERS**
1022 James Drive
Leesport, PA 19533
Tel 610-916-1600 Fax 610-916-1601
Internet www.consolidatedenr.com



AEM ARCHITECTS INC.

3700 PERKIOMEN AVENUE, READING, PA 19606-2795
Phone: 610.779.3220 Fax: 610.779.9022
www.aem-arch.com

THIRD FLOOR PLAN - UNIT A - DEMOLITION

RENOVATIONS TO BERKS COUNTY INTERMEDIATE UNIT 14

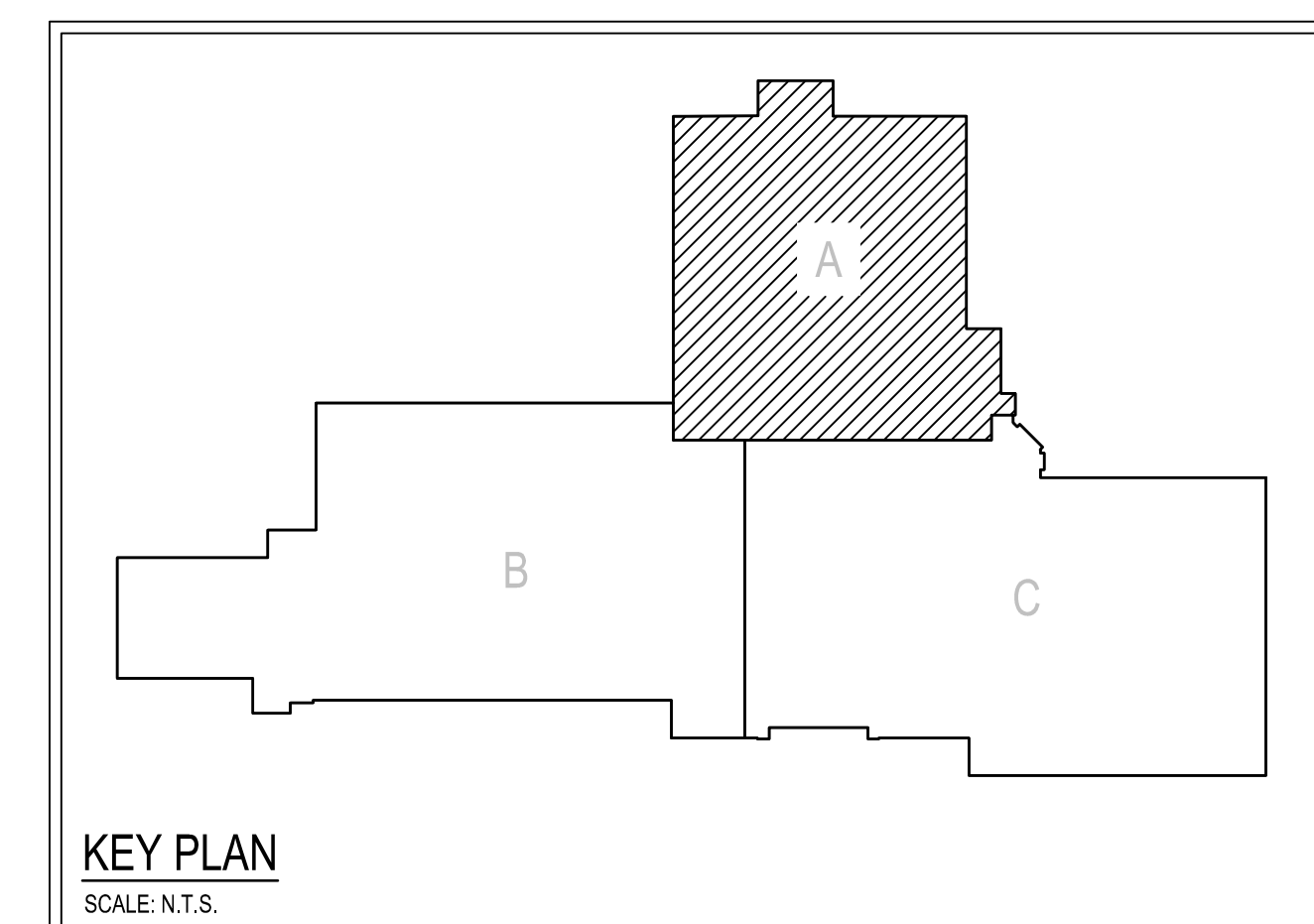
BCIU MAIN OFFICE

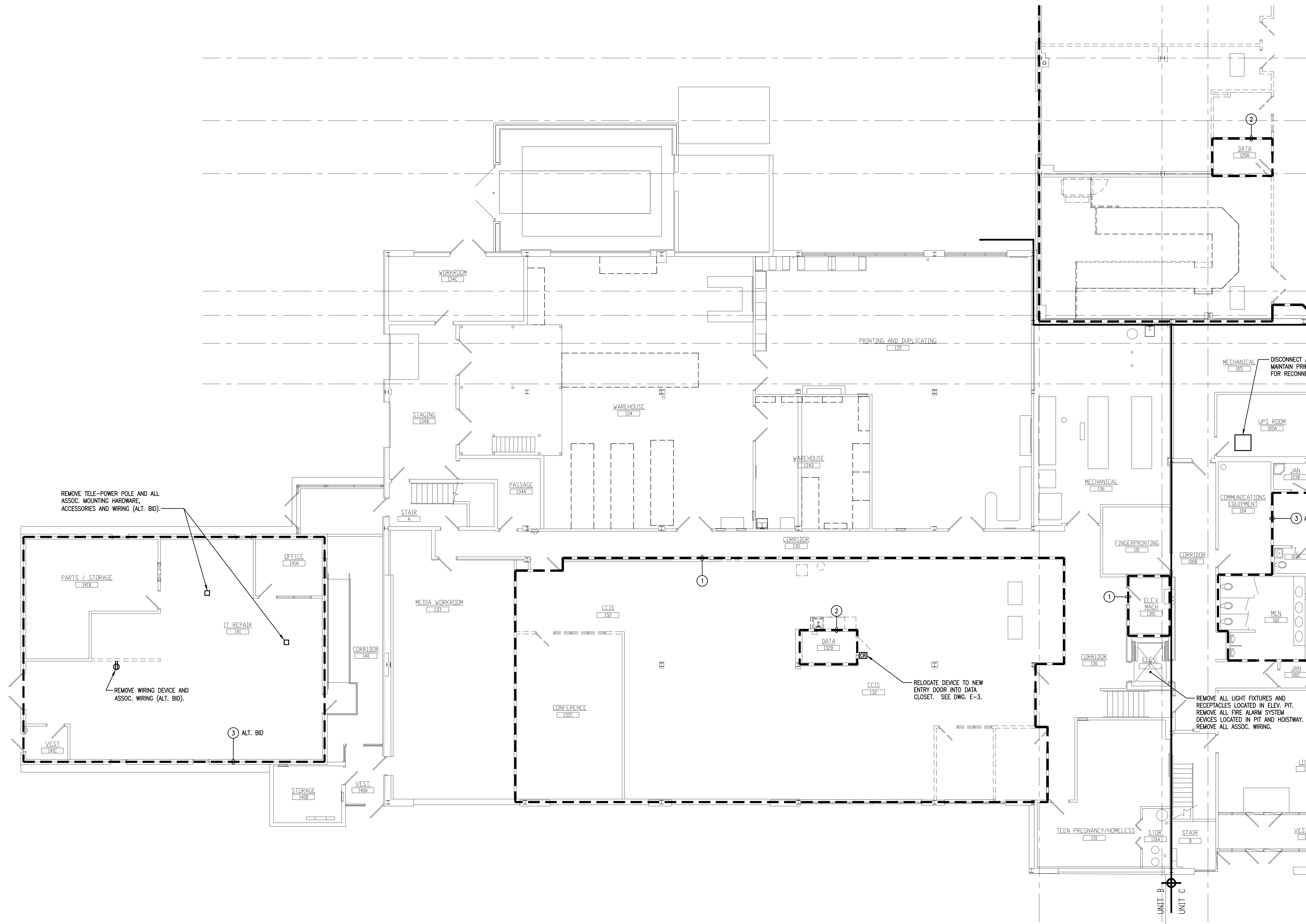
1111 COMMONS BLVD, READING, PA 19605

ALL DIMENSIONS and EXISTING CONDITIONS
shall be CHECKED and VERIFIED
by the CONTRACTOR at the SITE.

JOB NO.: 24015.00
DRAWN BY: RG
DATE: 10.15.25

ED-A3

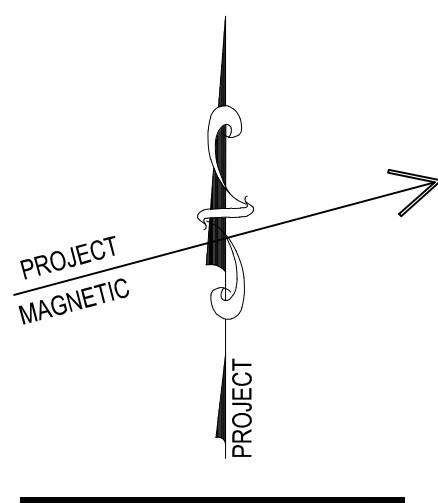
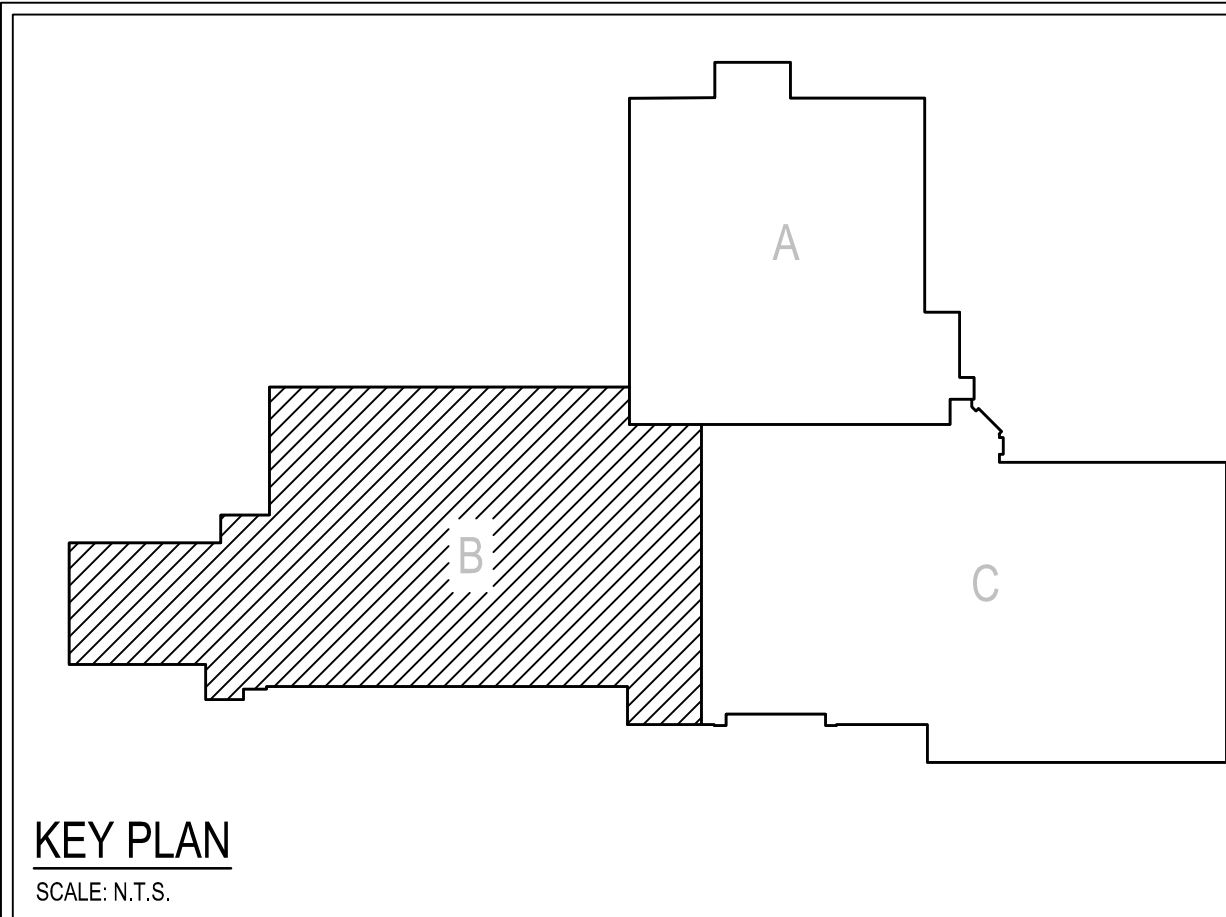




FIRST FLOOR PLAN - UNIT B - DEMOLITION
SCALE: 1/8" = 1'-0"

DRAWING NOTES:

1. REMOVE ALL ELECTRICAL EQUIPMENT WITHIN THIS AREA, UNLESS NOTED OR SHOWN OTHERWISE. ELECTRICAL EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, LIGHT FIXTURES, WIRING DEVICES, FLOOR BOXES, FIRE ALARM SYSTEMS, CLOCKS, SPEAKERS, DATA OUTLETS, TELEPHONE OUTLETS, CCTV SYSTEM, CARD READERS, SECURITY SYSTEM, INTERCOM SYSTEMS, PANELS, WIRING, CONDUIT, SURFACE RACEWAY, PULLBOXES, SUPPORTS, ETC. PATCH FLOOR AREAS WHERE BOXES ARE REMOVED AND CONDUITS PENETRATE BELOW FLOOR SURFACE, TO MATCH ADJACENT SURFACES. ITEMS TO BE RETAINED OR RELOCATED WILL BE SHOWN OR NOTED ON DEMOLITION OR NEW WORK DRAWINGS. TURN OVER CCTV SYSTEM CAMERAS TO OWNER.
2. ALL EXISTING EQUIPMENT IN THIS AREA TO REMAIN EXCLUDING LIGHT FIXTURES, ASSOCIATED CONTROLS AND WIRING.
3. REMOVE ALL LIGHT FIXTURES, ASSOCIATED CONTROLS AND WIRING IN THIS AREA. REMOVE ALL FIRE ALARM SYSTEM DEVICES AND WIRING IN THIS AREA.
4. REMOVE PANEL IN ITS ENTIRETY INCLUDING BACKBOX AND FEEDER.
5. REMOVE PANEL IN ITS ENTIRETY INCLUDING BACKBOX AND FEEDER. CAPTURE ALL ACTIVE BRANCH WIRING CIRCUITS ABOVE PANEL IN ACCESSIBLE CEILING PLENUM AS REQUIRED FOR EXTENSION TO NEW PANEL 'P6'. SEE NEW PANEL SCHEDULE FOR CIRCUIT EXTENSION INFORMATION.
6. RELOCATE PANEL TO LOCATION SHOWN ON DRAWING E-02. INTERCEPT EXISTING FEEDER ABOVE ACCESSIBLE CEILING AS REQUIRED. SPlice WITH NEW WIRING TO MATCH EXISTING AND EXTEND TO RELOCATED PANEL. CAPTURE ALL ACTIVE BRANCH WIRING CIRCUITS ABOVE PANEL IN ACCESSIBLE CEILING PLENUM AS REQUIRED FOR EXTENSION TO NEW LOCATION OF EXISTING PANEL. SEE PANEL SCHEDULE FOR CIRCUIT EXTENSION INFORMATION.
7. REMOVE ALL LIGHTING CONTROLS (SWITCHES AND OCCUPANCY SENSORS) AND ASSOCIATED WIRING TO LIGHT FIXTURES WITHIN THIS AREA. LIGHT FIXTURES TO REMAIN AND BE RE-WIRED WITH NEW CONTROLS AS INDICATED ON DRAWING E-05.



CONSOLIDATED ENGINEERS
1022 James Drive
Leopold, PA 15033
Tel: 610-916-1600 Fax: 610-916-1610
Internet: www.consolidatedengineers.com




AEM ARCHITECTS INC.
3700 PERKIDOMEN AVENUE, READING, PA 19606-2795
Phone: 610-779-3320 Fax: 610-779-3322
www.aem-arch.com

FIRST FLOOR PLAN - UNIT B - DEMOLITION
RENOVATIONS TO BERKS COUNTY INTERMEDIATE UNIT 14
BCIU MAIN OFFICE
1111 COMMONS BLVD, READING, PA 19605

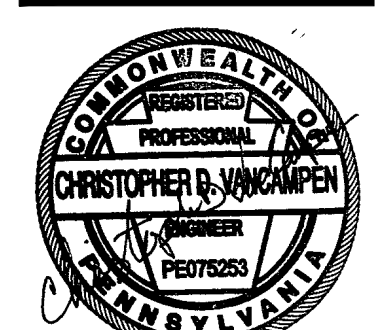
ALL DIMENSIONS AND EXISTING CONDITIONS
WILL BE CHECKED AND VERIFIED
BY THE CONTRACTOR AT THE SITE.
JOB NO.: 24015.00
DRAWN BY: RG
DATE: 10.15.25



A diagram showing a vertical wire with an upward-pointing arrow labeled 'PROJECT'. A rectangular loop is placed around the wire. A diagonal line with an arrow pointing away from the wire is labeled 'PROJECT MAGNETIC'.

CONSOLIDATED

ENGINEERS

1022 James Drive
Leesport, PA 19533
Tel 610-916-1600 Fax 610-916-1610
Internet www.consolidatedengineers.com



AEM ARCHITECTS INC.

3700 PERKIOMEN AVENUE, READING, PA 19606-2795
Phone: 610.779.3220 www.aem-arch.com
Fax: 610.779.9022

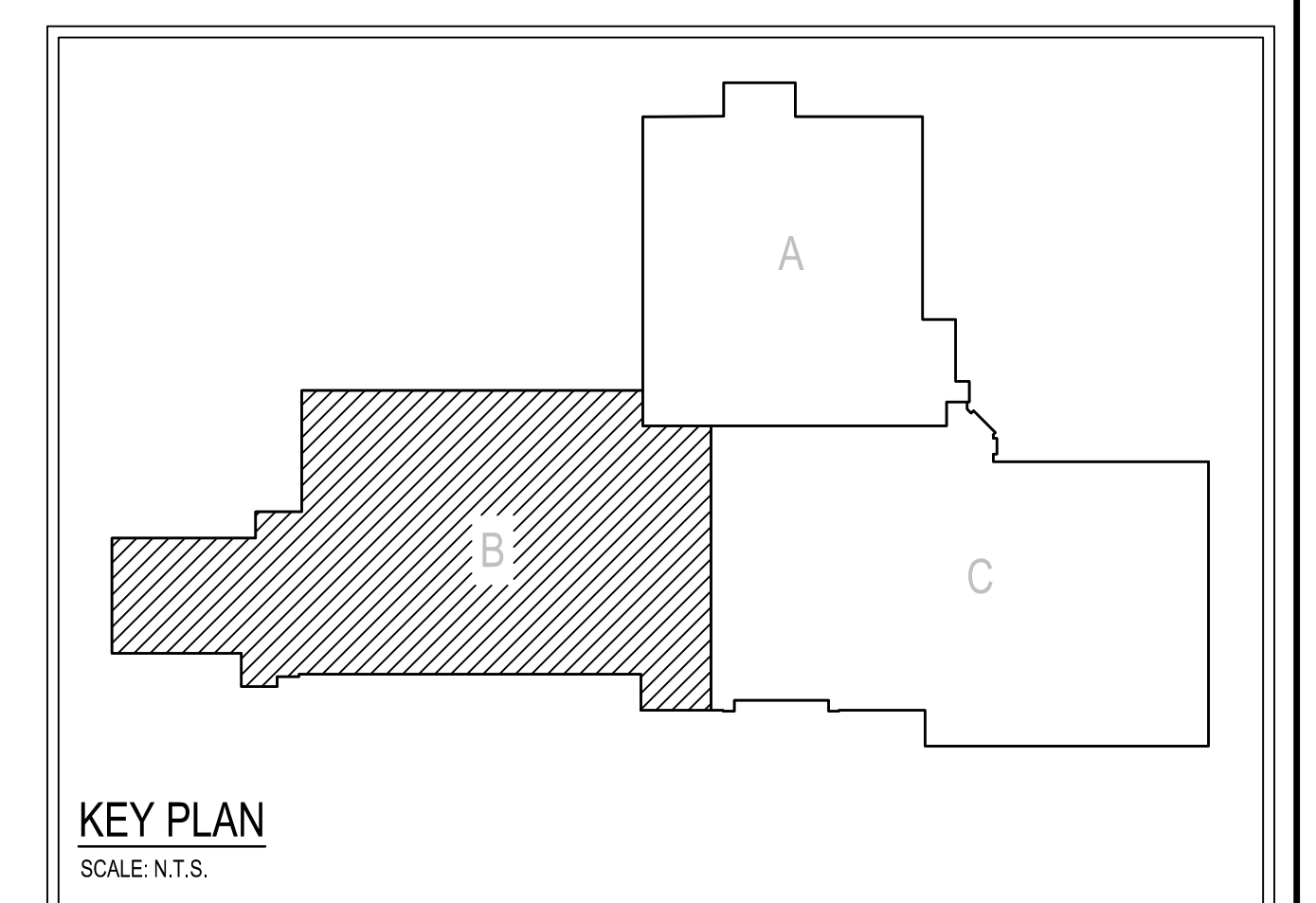
SECOND FLOOR PLAN - UNIT B - DEMOLITION

RENOVATIONS TO BERKS COUNTY INTERMEDIATE UNIT 14
BCIU MAIN OFFICE
1111 COMMONS BLVD, READING, PA 19605

ALL DIMENSIONS and EXISTING CONDITIONS
shall be CHECKED and VERIFIED
by the CONTRACTOR at the SITE.

JOB NO.: 24015.00
DRAWN BY: RG
DATE: 10.15.25

ED-B2





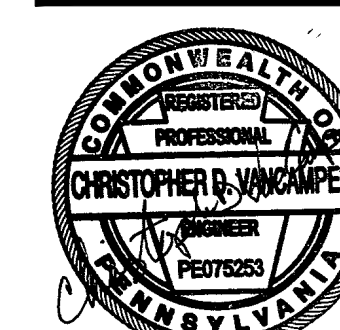
-
- A diagram showing a vertical wire with an arrow pointing upwards, labeled 'PROJECT'. A horizontal line with an arrow pointing to the right, labeled 'PROJECT MAGNETIC', is perpendicular to the wire. A circular arrow around the wire indicates a clockwise magnetic field direction when viewed from above.



700 PERKIOMEN AVENUE, READING, PA 19606-2795
Phone: 610.779.3220 Fax: 610.779.9022 www.aem-arch.com

ED-C1





AEM ARCHITECTS INC.

3700 PERKIOEMEN AVENUE, READING, PA 19606-2795
Phone: 610.779.3220 Fax: 610.779.9022
www.aem-arch.com

SECOND FLOOR PLAN - UNIT C - DEMOLITION

RENOVATIONS TO BERKS COUNTY INTERMEDIATE UNIT 14

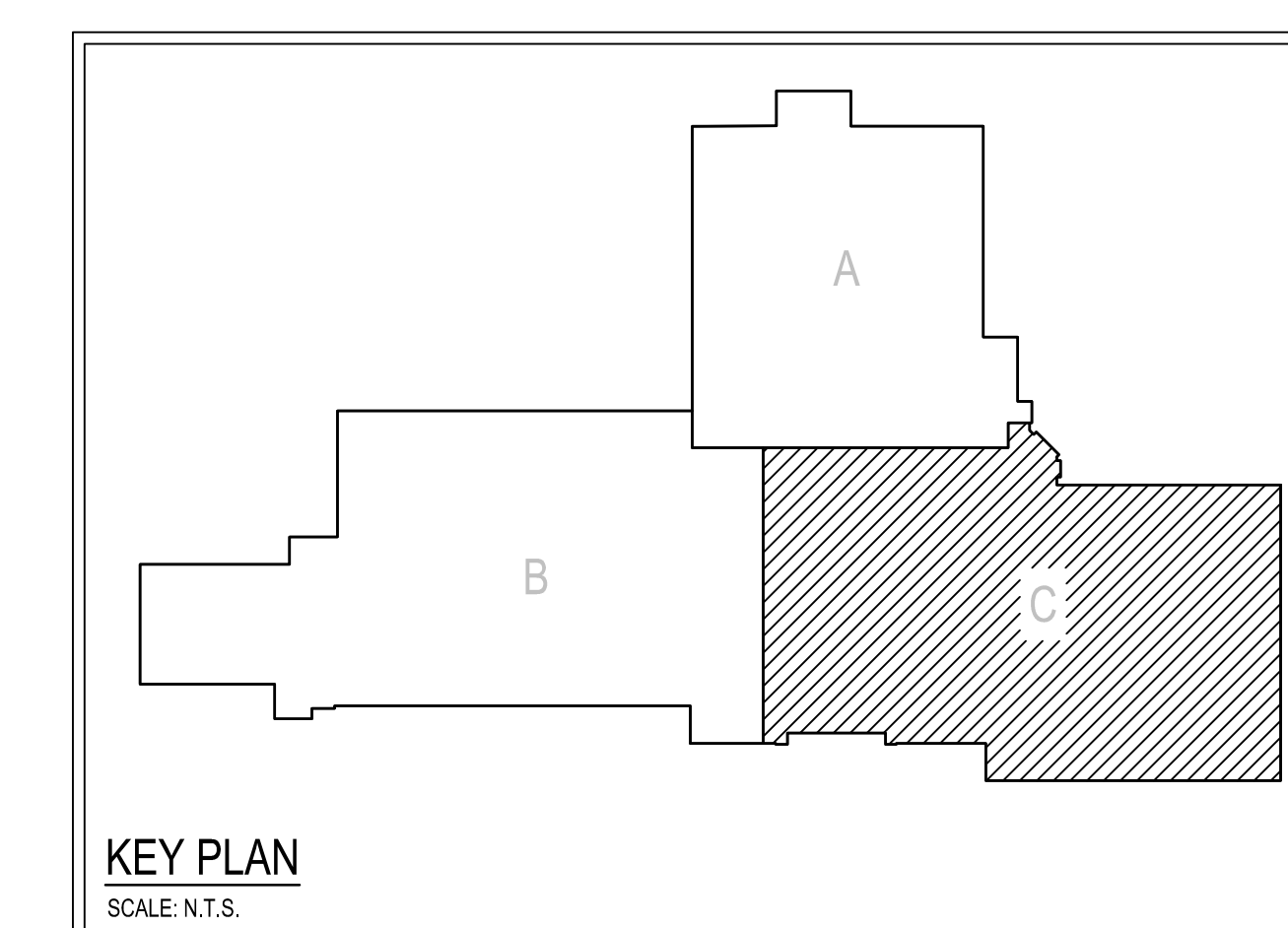
BCIU MAIN OFFICE

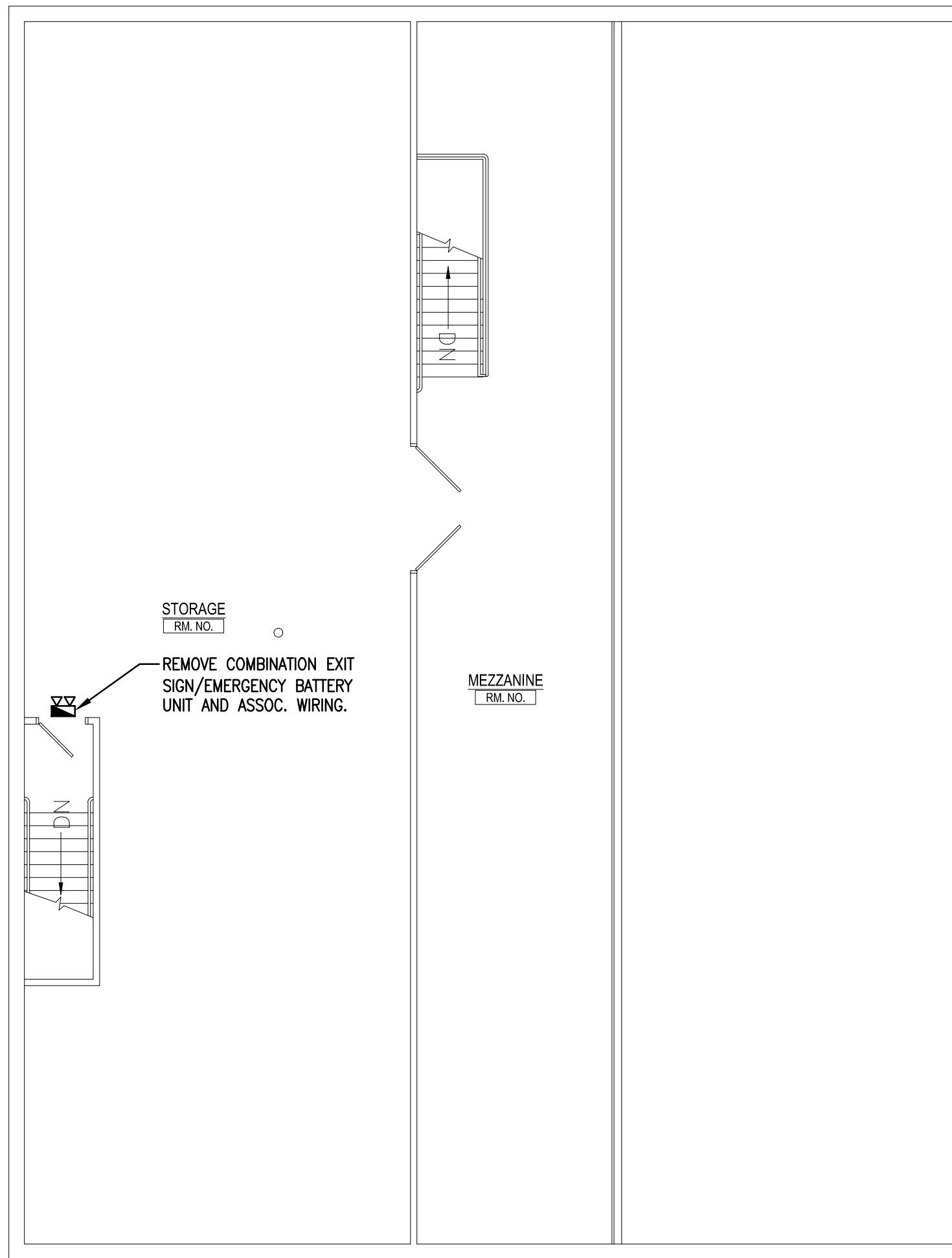
1111 COMMONS BLVD. READING, PA 19605

ALL DIMENSIONS and EXISTING CONDITIONS
shall be CHECKED and VERIFIED
by the CONTRACTOR at the SITE.

JOB NO.: 24015.00
DRAWN BY: RG
DATE: 10.15.25

ED-C2

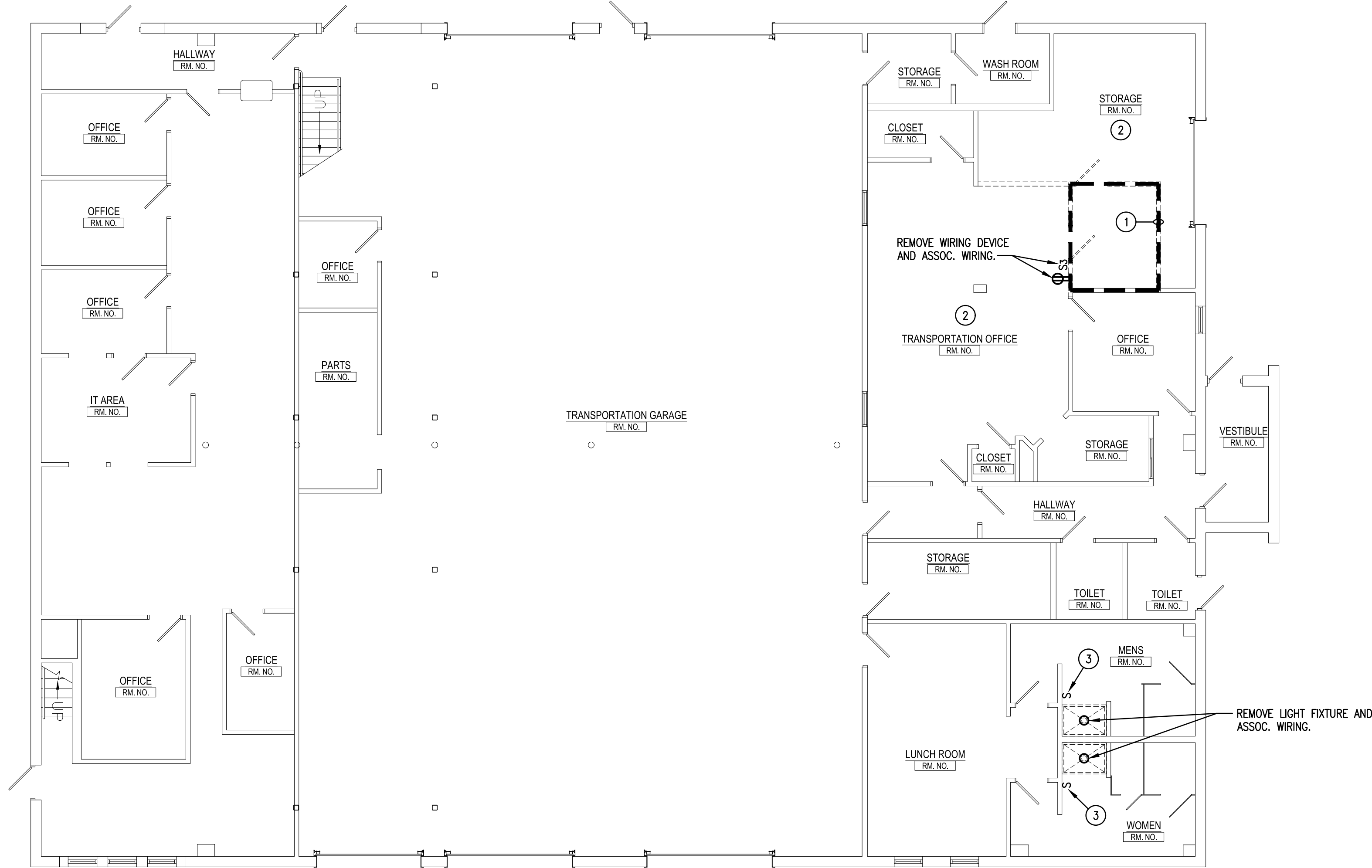




READING CREST SECOND FLOOR PLAN - DEMOLITION

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

REMOVE ALL EXISTING INTERIOR EMERGENCY BATTERY UNITS IN ENTIRE BUILDING AND ALL EXISTING EXTERIOR EMERGENCY REMOTE FIXTURE HEADS LOCATED ON BUILDING EXTERIOR AND REPLACE WITH NEW. REMOVE ALL EXISTING FIRE ALARM SYSTEM EQUIPMENT AND ALL EXISTING INTRUSION DETECTION SYSTEM EQUIPMENT IN ENTIRE BUILDING AND REPLACE WITH NEW.



READING CREST FIRST FLOOR PLAN - DEMOLITION

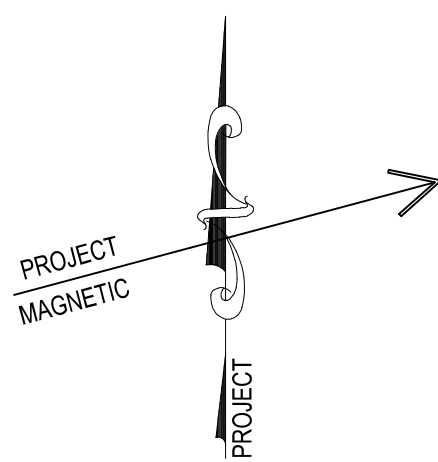
SCALE: 1/8" = 1'-0"

REMOVE ALL EXISTING INTERIOR EMERGENCY BATTERY UNITS IN ENTIRE BUILDING AND ALL EXISTING EXTERIOR EMERGENCY REMOTE FIXTURE HEADS LOCATED ON BUILDING EXTERIOR AND REPLACE WITH NEW. REMOVE ALL EXISTING FIRE ALARM SYSTEM EQUIPMENT AND ALL EXISTING INTRUSION DETECTION SYSTEM EQUIPMENT IN ENTIRE BUILDING AND REPLACE WITH NEW.

DRAWING NOTES:

1. REMOVE ALL ELECTRICAL EQUIPMENT WITHIN THIS AREA, UNLESS NOTED OR SHOWN OTHERWISE. ELECTRICAL EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, LIGHT FIXTURES, WIRING DEVICES, FLOOR BOXES, FIRE ALARM SYSTEMS, CLOCKS, SPEAKERS, DATA OUTLETS, TELEPHONE OUTLETS, CCTV SYSTEM, CARD READERS, SECURITY SYSTEM, INTERCOM SYSTEMS, PANELS, WIRING, CONDUIT, SURFACE RACEMWAY, PULLBOXES, SUPPORTS, ETC. PATCH FLOOR AREAS WHERE BOXES ARE REMOVED AND CONDUITS PENETRATE BELOW FLOOR SURFACE, TO MATCH ADJACENT SURFACES. ITEMS TO BE RETAINED OR RELOCATED WILL BE SHOWN OR NOTED ON DEMOLITION OR NEW WORK DRAWINGS.
2. REMOVE ALL LIGHT FIXTURES, ASSOCIATED CONTROLS AND WIRING IN THIS AREA. RETAIN BRANCH LIGHTING CIRCUIT SERVING THIS AREA FOR RECONNECTION TO NEW FIXTURES AND CONTROLS.
3. REMOVE WIRING DEVICE AND ASSOC. WIRING. PROVIDE BLANK SWITCH FILLER PLATE. EXISTING ADJACENT GROUND FAULT DUPLEX RECEPTACLE AND SINGLE 2-GANG COVER PLATE TO REMAIN.

ALL WORK INDICATED ON THE DRAWING SHALL BE DELETED UNDER ALTERNATE BID.



CONSOLIDATED
ENGINEERS
1022 James Drive
Leesport, PA 19533
Tel: 610-916-1600 Fax: 610-916-1610
Internet: www.consolidatedengineers.com



AEM ARCHITECTS, INC.
3700 PERKIDOMEN AVENUE, READING, PA 19606-2785
Phone: 610-79-3220 Fax: 610-79-3222 www.aem-arch.com

READING CREST FIRST FLOOR PLAN - DEMOLITION
RENOVATIONS TO BERKS COUNTY INTERMEDIATE UNIT 14
BCIU MAIN OFFICE
1111 COMMONS BLVD, READING, PA 19605

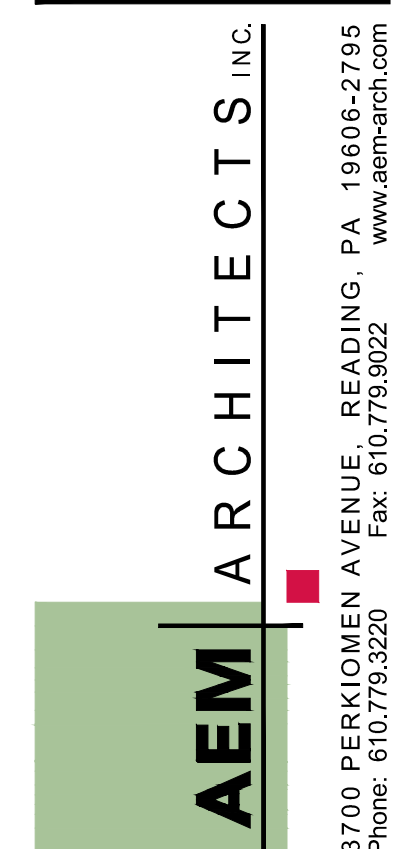
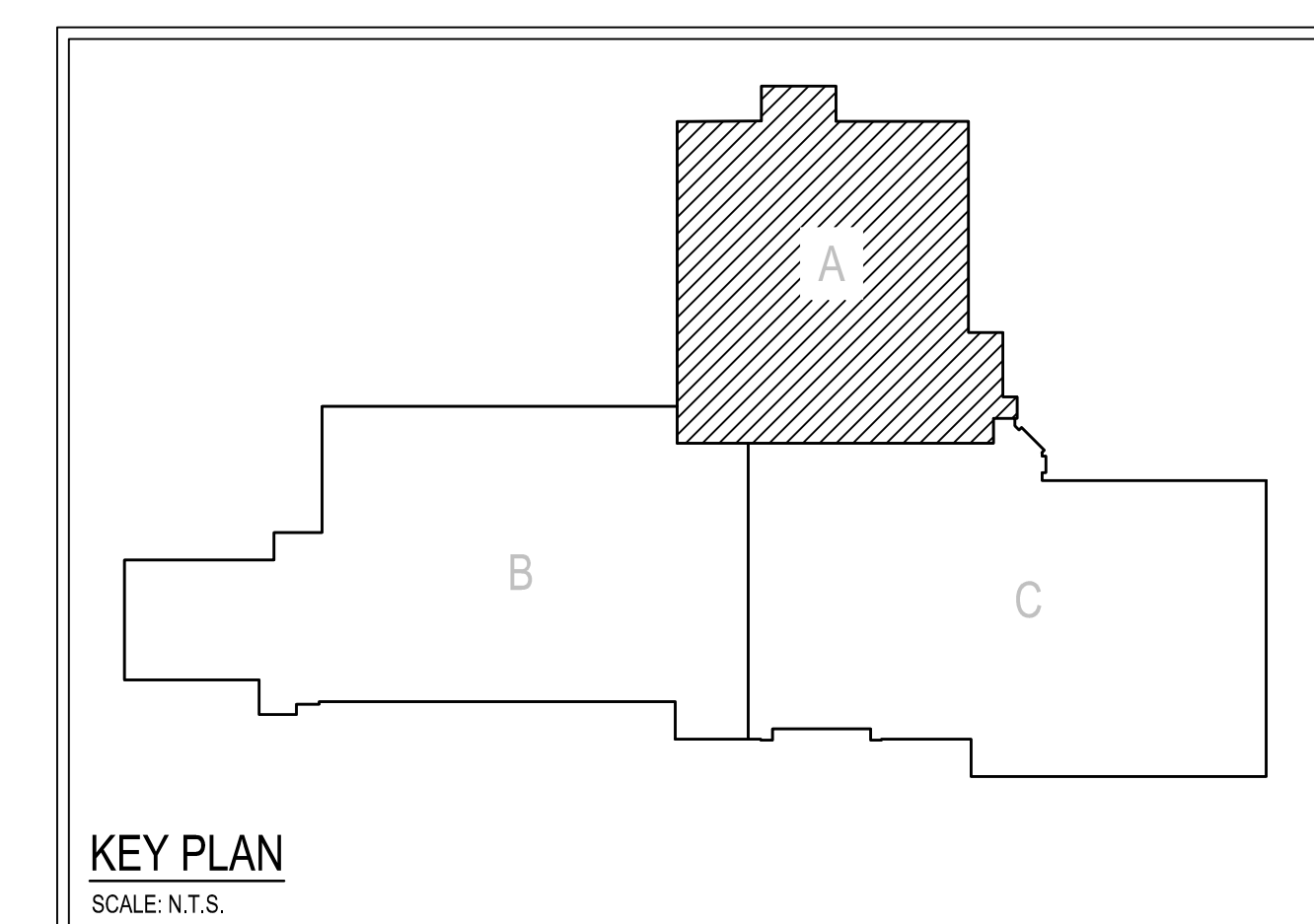
ALL DIMENSIONS AND EXISTING CONDITIONS
SHALL BE CHECKED AND VERIFIED
BY THE CONTRACTOR AT THE SITE.

JOB NO.: 24015.00
DRAWN BY: RG
DATE: 10.15.25

ED-D1



1. LIGHT FIXTURE WIRING. SUB-LETTERS INDICATE WHICH FIXTURE, SWITCH, CONTROLS. WIRE TO INDICATED SWITCHES BETWEEN ROOM ACCORDINGLY.
2. WIRE LIGHT FIXTURES TO CONTROLS INDICATED WITHIN ROOM/AREA. CONNECT LIGHT- FIXTURES TO BRANCH WIRING CIRCUIT INDICATED IN BOX OR ADJACENT TO FIXTURE. (CIRCUIT INDICATED IS BEING CONNECTED TO SPARE 20A/1P BREAKER OR THE CIRCUIT IS ACTIVE IN ADJACENT AREAS NOT BEING RENOVATED. FIELD VERIFY WHICH CONDITION APPLIES).
3. CONNECT ALL TYPE 'E1' AND 'E2' EXIST SIGN LIGHT FIXTURES TO LINE SIDE OF NEAREST 277 VOLT NORMAL/EMERGENCY CORRIDOR LIGHTING CIRCUIT.
4. WIRE LIGHT FIXTURE TO NORMAL/EMERGENCY PANEL AND CIRCUIT NUMBER INDICATED. FIXTURE SHALL BE CONTROLLED VIA ROOM/SPACE LIGHTING CONTROL SYSTEM WITH 'NORMAL POWER ONLY' LIGHT FIXTURES. SEE SPECIFICATIONS.
5. PROVIDE NEW CONTROLS IN THIS AREA AS SHOWN AND WIRE TO EXISTING LIGHT FIXTURES AS REQUIRED. MAINTAIN EXISTING THREE-WAY DIMMER SWITCH CONTROL LOCATED IN STORAGE 232A AND BRANCH LIGHTING CIRCUIT SERVING THIS AREA.
6. PROVIDE NEW CONTROLS IN THIS AREA AS SHOWN AND WIRE TO EXISTING LIGHT FIXTURES AS REQUIRED. MAINTAIN EXISTING THREE-WAY DIMMER SWITCH CONTROL LOCATED IN IT STORAGE 234A AND BRANCH LIGHTING CIRCUIT SERVING THIS AREA.
7. WIRE UNDERCANT LIGHT FIXTURE TO TOGGLE SWITCH LOCATED ABOVE COUNTER. CONNECT TO ROOM LIGHTING CIRCUIT AND CONTROL. SO THE UNDERCANT FIXTURES ARE ONLY OPERATIONAL WHEN THE ROOM CEILING LIGHTS ARE OPERATIONAL.

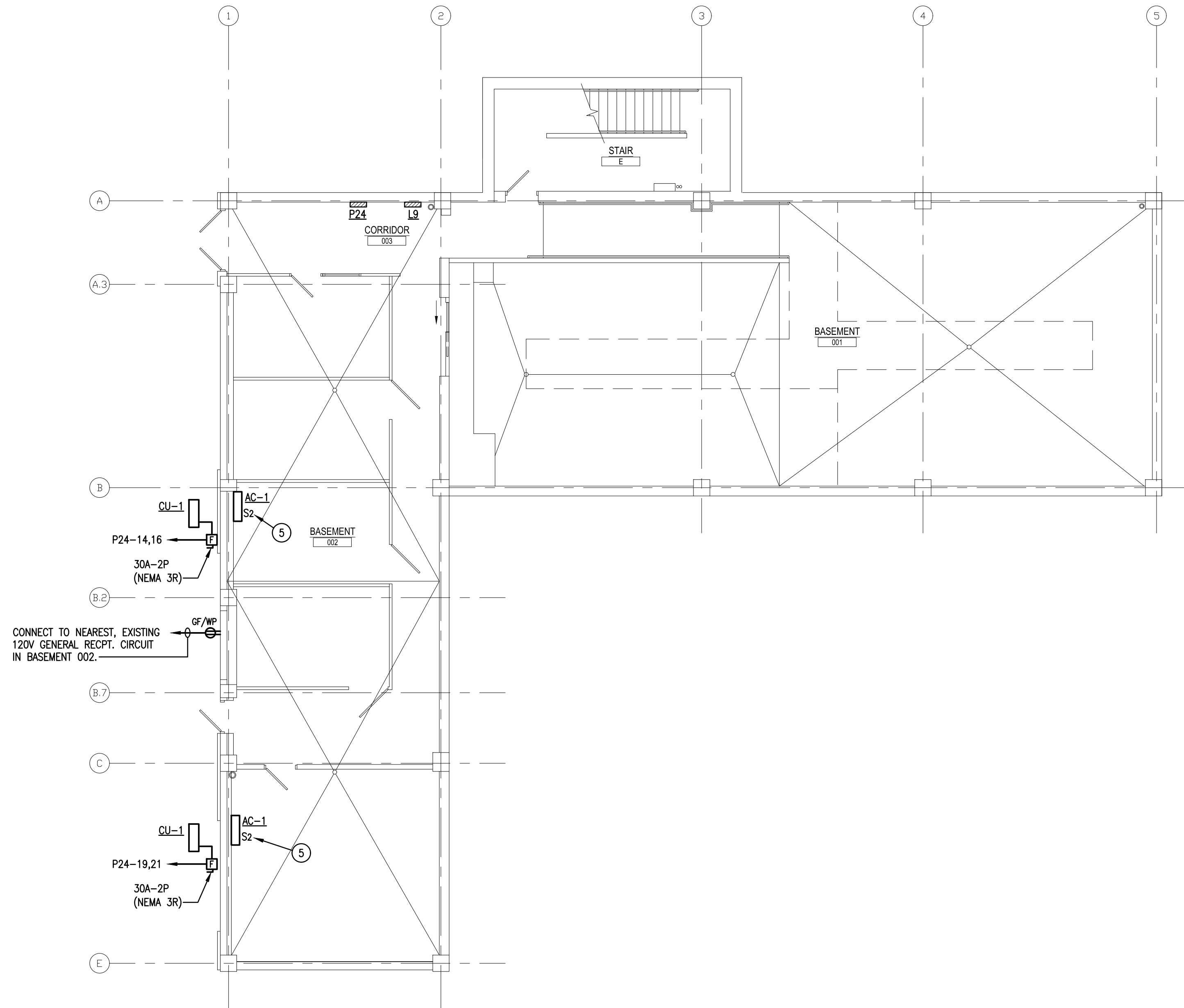


RENOVATIONS TO BERKS COUNTY INTERMEDIATE UNIT 14
BCIU MAIN OFFICE
1111 COMMONS BLVD, READING, PA 19605
BASEMENT & FIRST FLOOR PLAN - UNIT A - LIGHTING

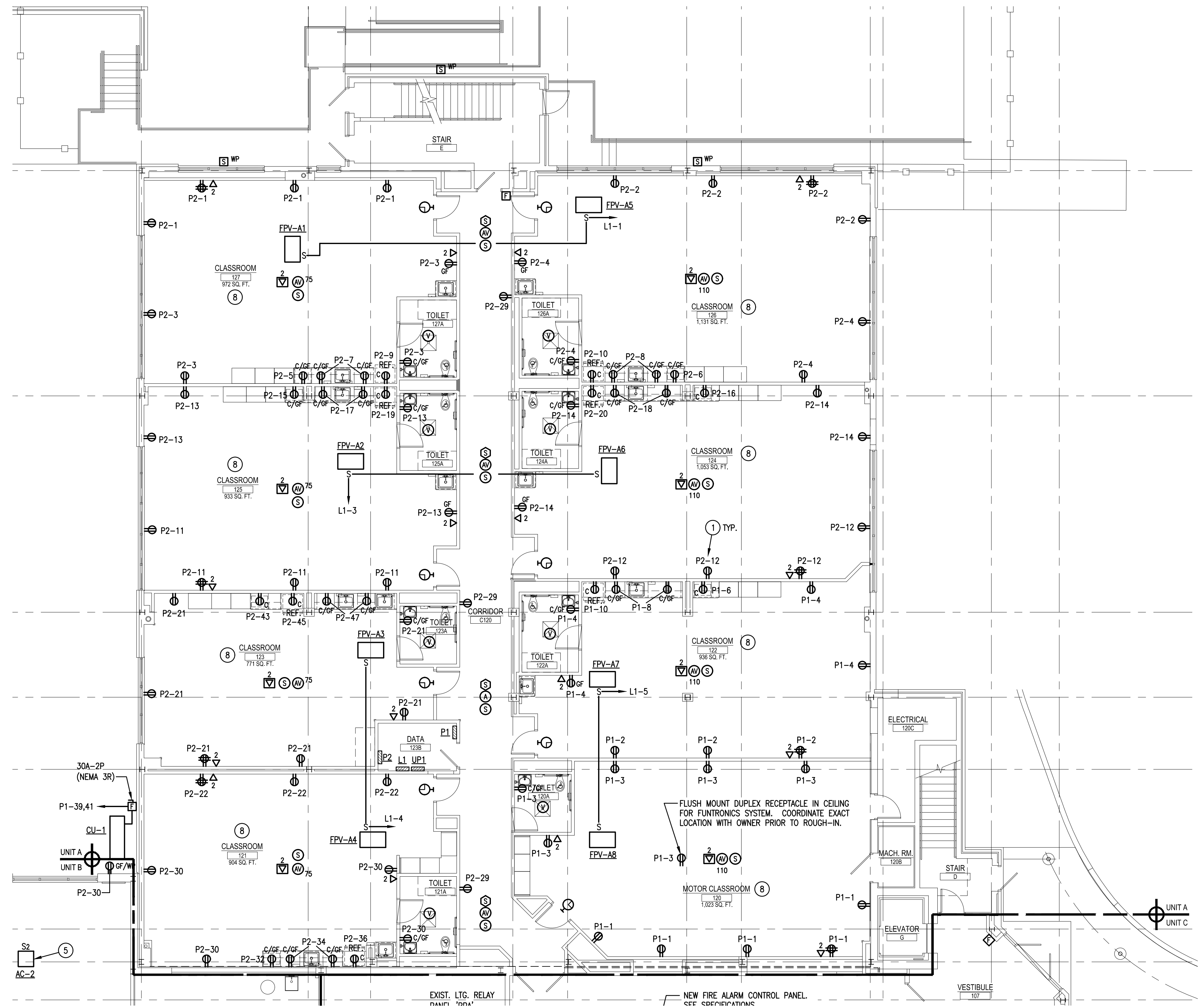
ALL DIMENSIONS AND EXISTING CONDITIONS
shall be CHECKED and VERIFIED
by the CONTRACTOR at the SITE.

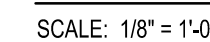
JOB NO.: 24015.00
DRAWN BY: RG
DATE: 10.15.25

E-A1

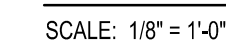


BASEMENT FLOOR PLAN - UNIT A - POWER
SCALE: 1/8" = 1'-0"





KEY PLAN
SCALE: N.T.S.



-
- KEY PLAN**
- SCALE: N.T.S.



A diagram showing a vertical wire with an arrow pointing upwards, labeled 'PROJECT'. Concentric circular field lines around the wire are labeled 'MAGNETIC'.

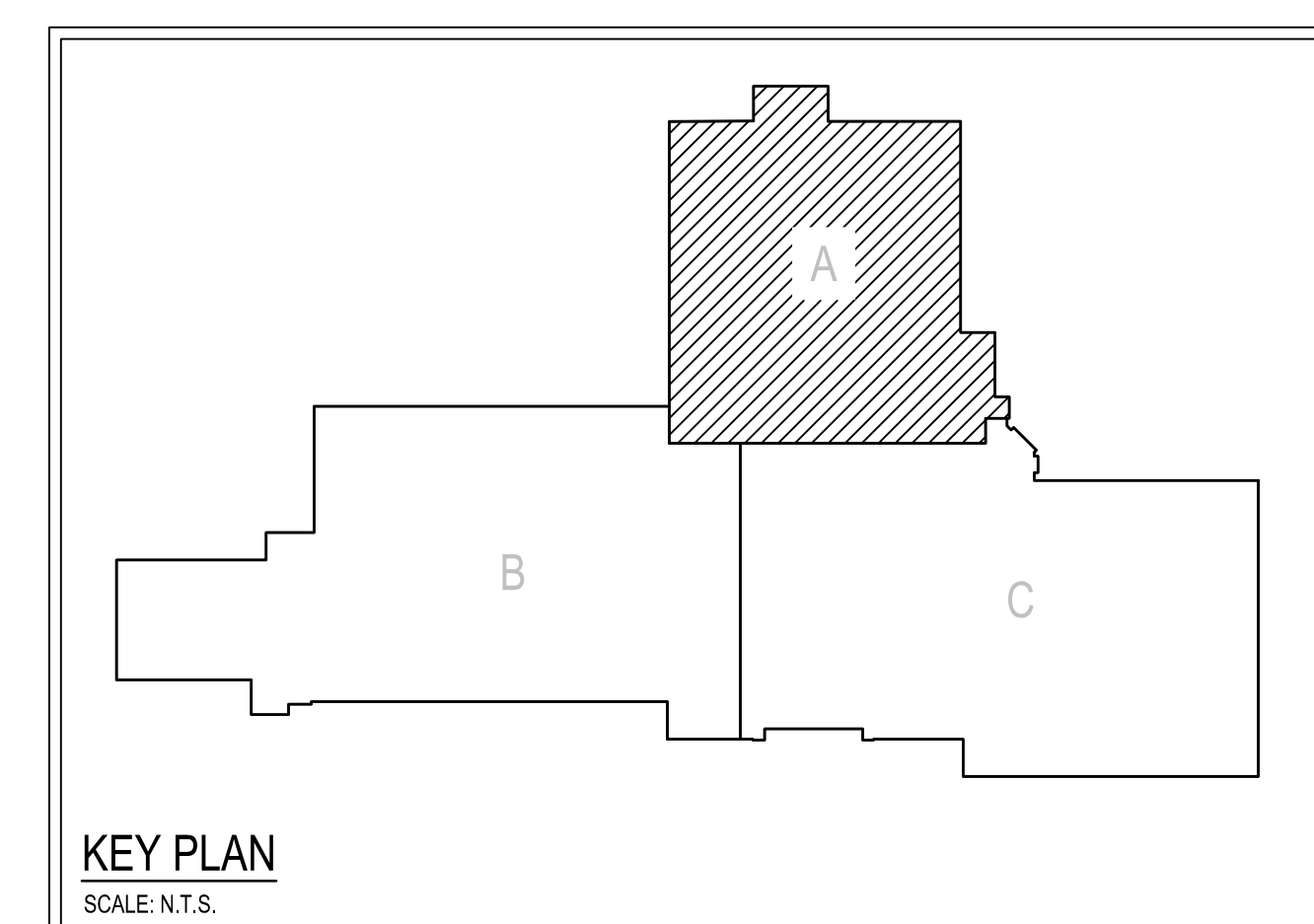


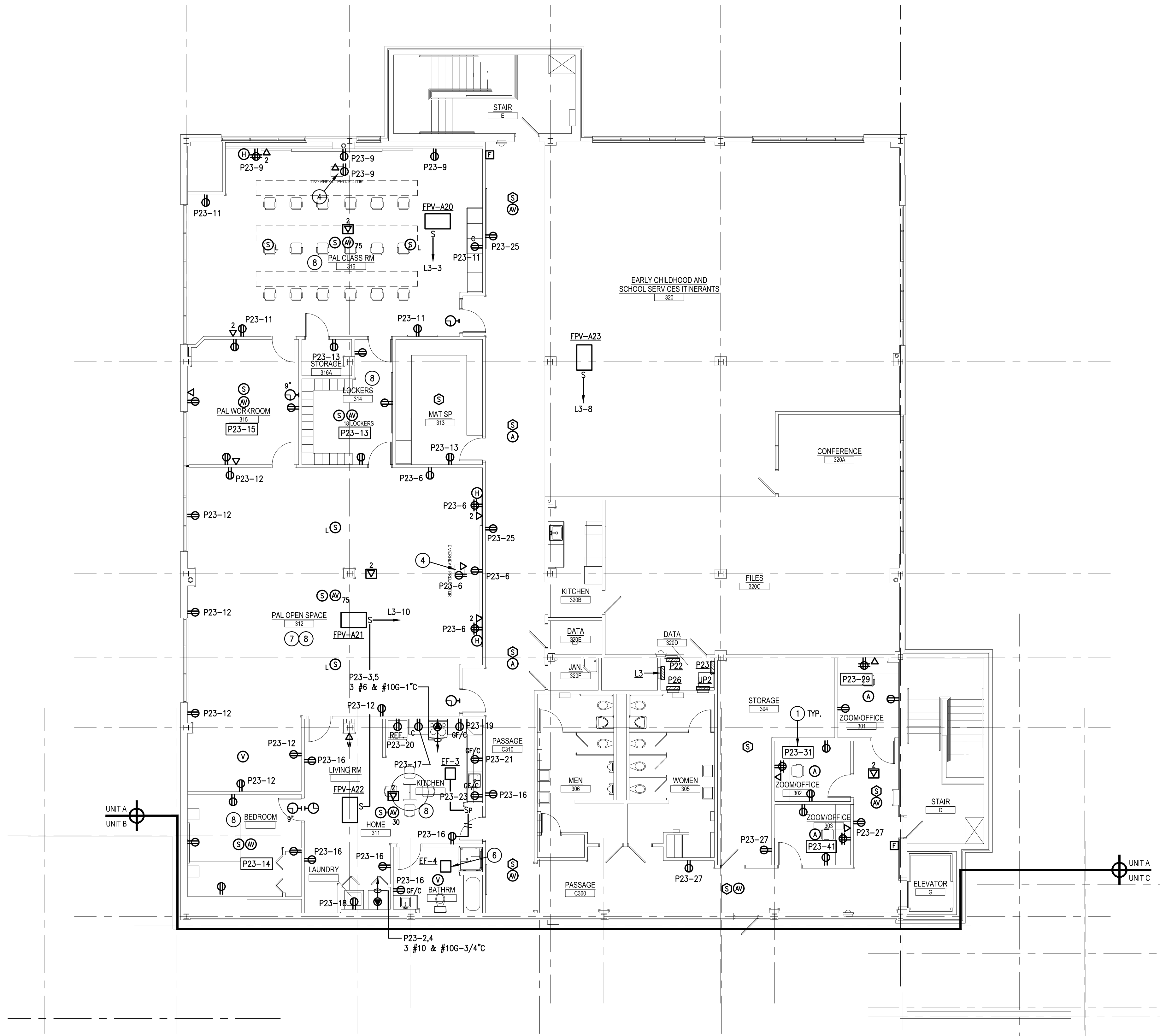
AEM ARCHITECTS INC.

3700 PERKIOMEN AVENUE, READING, PA 19606-2795
Phone: 610.779.3220 www.aem-arch.com
Fax: 610.779.9022

ALL DIMENSIONS AND EXISTING CONDITIONS
shall be CHECKED AND VERIFIED

E-A5

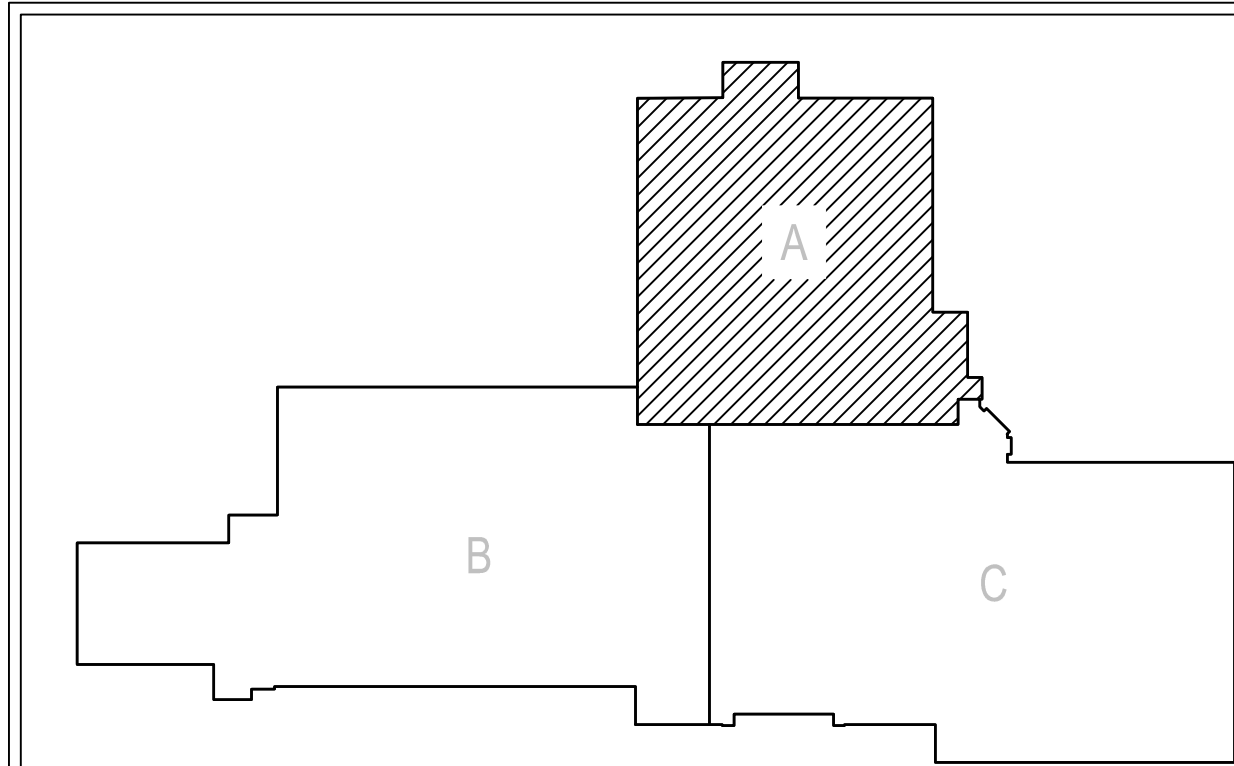




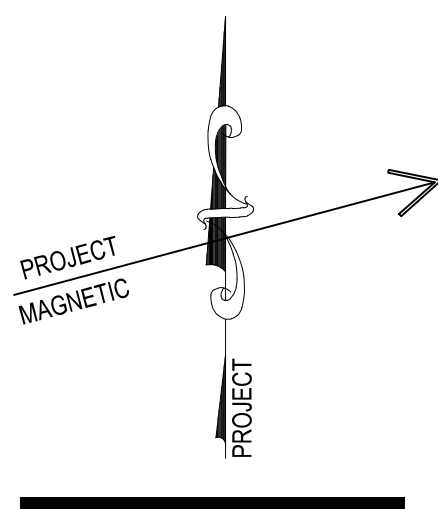
THIRD FLOOR PLAN - UNIT A - POWER
SCALE: 1/8" = 1'-0"

DRAWING NOTES:

1. CIRCUIT ROOM RECEPTACLES TO CIRCUIT INDICATED IN BOX OR CIRCUIT NUMBER INDICATED ADJACENT TO OUTLET VIA 2 #12 & #120-3/4" UNLESS NOTED OTHERWISE.
2. E.C. SHALL REINSTALL WIRELESS NODE(S) IN THIS SPACE UPON COMPLETION OF NEW CEILING GRID WORK. COORDINATE EXACT MOUNTING LOCATION OF DEVICES WITH OWNER AND EXISTING ABOVE CEILING DATA JACK LOCATIONS, PRIOR TO ROUGH-IN.
3. FLUSH MOUNT DUPLEX RECEPTACLE AND DATA JACK IN CEILING ADJACENT TO PROJECTOR LOCATION. COORDINATE EXACT MOUNTING LOCATION WITH OWNER PRIOR TO ROUGH-IN. E.C. TO INSTALL CEILING PROJECTOR FURNISHED BY OWNER AND PROVIDE ALL REQUIRED MOUNTING HARDWARE.
4. PROVIDE DEVICES FOR SHORT-THROW TYPE PROJECTOR. COORDINATE EXACT MOUNTING LOCATION OF DEVICES (FLUSH WALL MOUNTED WITHIN PROJECTOR STAND) WITH OWNER PRIOR TO ROUGH-IN. E.C. TO INSTALL SHORT-THROW PROJECTOR FURNISHED BY OWNER AND PROVIDE ALL REQUIRED MOUNTING HARDWARE.
5. CONNECT INDOOR UNIT (AC) TO ASSOCIATED CONDENSING UNIT TERMINAL BLOCK WITH WIRING (QUANTITY AND SIZE) PER MANUFACTURER RECOMMENDATIONS IN 3/4" CONDUIT.
6. CONNECT EXHAUST FAN TO ROOM LIGHTING SWITCH. PROVIDE CONTACTOR/RELAY AS REQUIRED TO CONTROL 120V FAN FROM 277V LIGHT SWITCH AND ROOM LIGHTING.
7. COORDINATE FINAL LOCATION/PLACEMENT OF ALL WIRING DEVICES SHOWN IN SPACE WITH OWNER PRIOR TO ROUGH-IN.
8. PROVIDE TAMPER-RESISTANT RECEPTACLES IN THIS ROOM/SPACE TO MEET NEC ARTICLE 406.12 REQUIREMENT.
9. E.C. SHALL BE RESPONSIBLE FOR COORDINATING ALL ELECTRICAL EQUIPMENT AND DEVICE LOCATIONS WITH ELEVATOR EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN OF ANY ELECTRICAL EQUIPMENT. INTEGRATE EXISTING FIRE ALARM SYSTEM TO NEW ELEVATOR CONTROLS AS REQUIRED FOR ELEVATOR RECALL FUNCTION. PROVIDE TVSS SURGE PROTECTION DEVICE ON ELEVATOR CONTROLLER SIMILAR TO CURRENT TECHNOLOGY LOAD GUARD.
10. COORDINATE EXACT MOUNTING LOCATION AND HEIGHT WITH OWNER PRIOR TO ROUGH-IN OF DEVICES FOR TV MONITOR/LED SCREEN. PROVIDE FSR INC. #FWB-100-WHT PROJECT WALL BOX FOR INSTALLATION OF DEVICES. CONCEAL WALL BOX BEHIND TV MONITOR.
11. LOCAL A/V SYSTEM EQUIPMENT TO BE LOCATED IN BASE CABINET. PROVIDE FAN KIT WITH THERMOSTAT CONTROL. PROVIDE (3) FANS PRODUCING MINIMUM 150 CFM AT MAXIMUM 21 DBA. INSTALL AT UPPER SLOT OPENING. COORDINATE INSTALLATION WITH CABINET MANUFACTURER/INSTALLER.



KEY PLAN
SCALE: N.T.S.



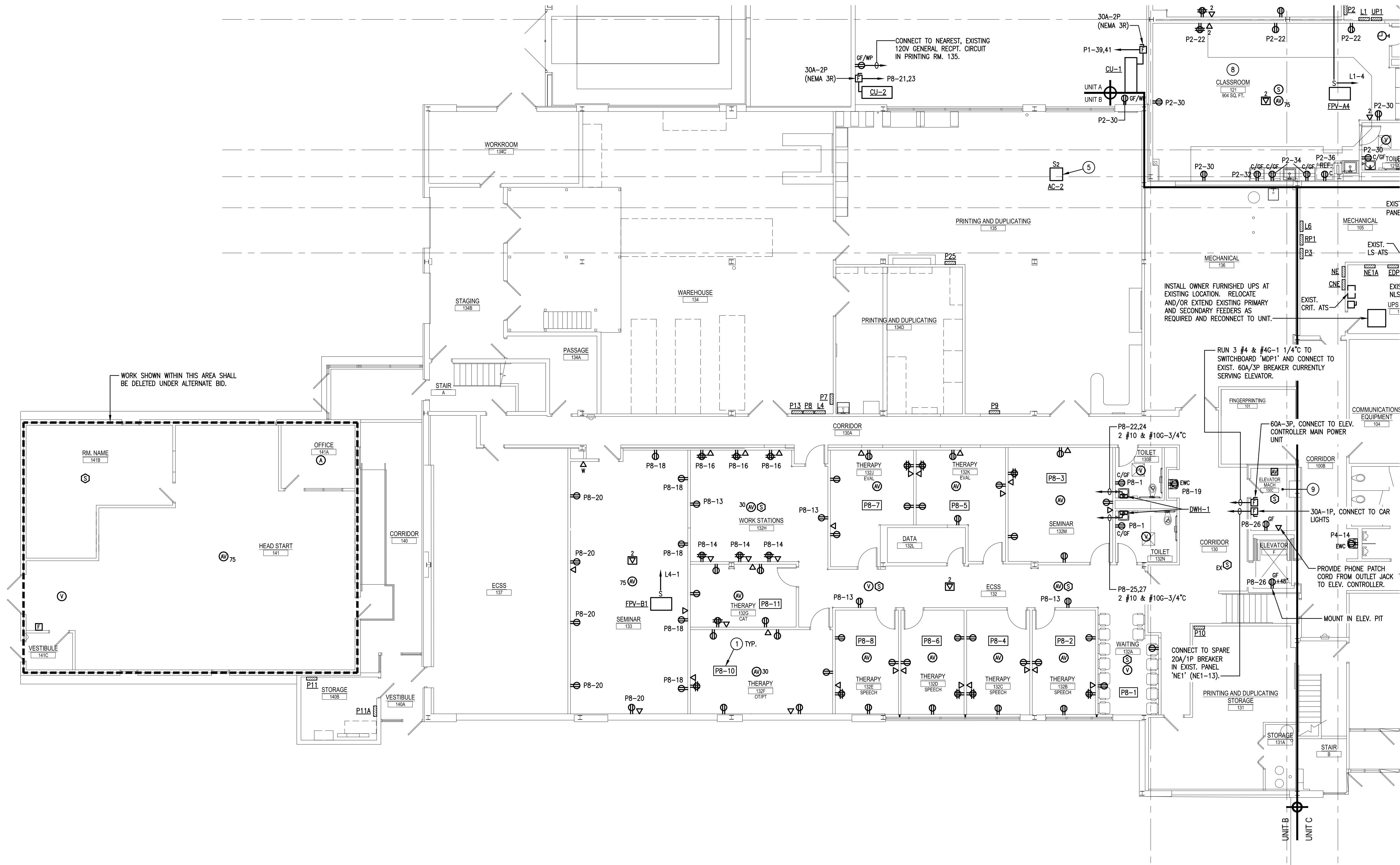
CONSOLIDATED
ENGINEERS
1022 James Drive
Leesport, PA 19833
Tel 610-916-1600 Fax 610-916-1610
Internet www.consolidatedengineers.com



AEM ARCHITECTS INC.
3700 PERKINS AVENUE, READING, PA 19606-2785
Phone: 610-779-3220 Fax: 610-779-3222 www.aem-arch.com

THIRD FLOOR PLAN - UNIT A - POWER
RENOVATIONS TO BERKS COUNTY INTERMEDIATE UNIT 14
BCIU MAIN OFFICE
1111 COMMONS BLVD, READING, PA 19605

ALL DIMENSIONS AND EXISTING CONDITIONS
WILL BE CHECKED AND VERIFIED
BY THE CONTRACTOR AT THE SITE.
JOB NO: 24015.00
DRAWN BY: RG
DATE: 10.15.25

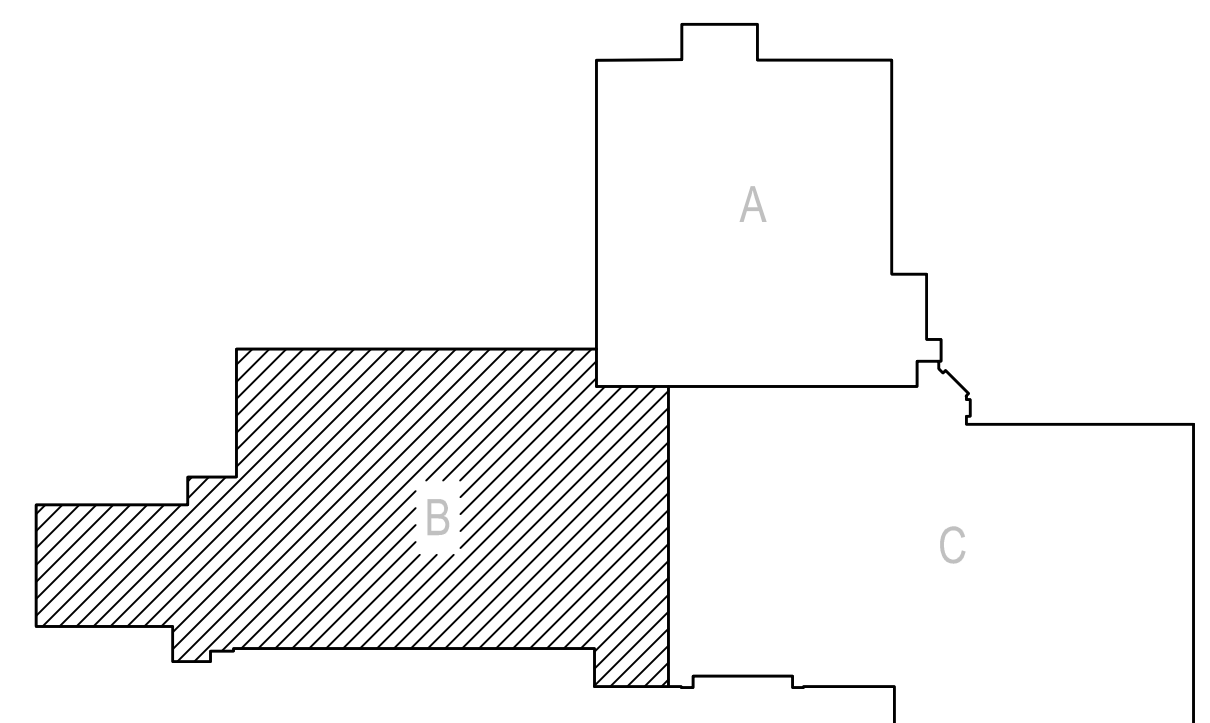


FIRST FLOOR PLAN - UNIT B - POWER
SCALE: 1/8" = 1'-0"

DRAWING NOTES:

1. CIRCUIT ROOM RECEPTACLES TO CIRCUIT INDICATED IN BOX OR CIRCUIT NUMBER INDICATED ADJACENT TO OUTLET VIA 2 #12 & #12G-3/4" UNLESS NOTED OTHERWISE.
2. E.C. SHALL REINSTALL WIRELESS NODE(S) IN THIS SPACE UPON COMPLETION OF NEW CEILING GRID WORK. COORDINATE EXACT MOUNTING LOCATION OF DEVICES WITH OWNER AND EXISTING ABOVE CEILING DATA JACK LOCATIONS, PRIOR TO ROUGH-IN.
3. FLUSH MOUNT DUPLEX RECEPTACLE AND DATA JACK IN CEILING ADJACENT TO PROJECTOR LOCATION. COORDINATE EXACT MOUNTING LOCATION WITH OWNER PRIOR TO ROUGH-IN. E.C. TO INSTALL CEILING PROJECTOR FURNISHED BY OWNER AND PROVIDE ALL REQUIRED MOUNTING HARDWARE.
4. PROVIDE DEVICES FOR SHORT-THROW TYPE PROJECTOR. COORDINATE EXACT MOUNTING LOCATION OF DEVICES (FLUSH WALL MOUNTED WITHIN PROJECTOR STAND) WITH OWNER PRIOR TO ROUGH-IN. E.C. TO INSTALL SHORT-THROW PROJECTOR FURNISHED BY OWNER AND PROVIDE ALL REQUIRED MOUNTING HARDWARE.
5. CONNECT INDOOR UNIT (AC) TO ASSOCIATED CONDENSING UNIT TERMINAL BLOCK WITH WIRING (QUANTITY AND SIZE) PER MANUFACTURER RECOMMENDATIONS IN 3/4" CONDUIT.
6. CONNECT EXHAUST FAN TO ROOM LIGHTING SWITCH. PROVIDE CONTACTOR/RELAY AS REQUIRED TO CONTROL 120V FAN FROM 277V LIGHT SWITCH AND ROOM LIGHTING.
7. COORDINATE FINAL LOCATION/PLACEMENT OF ALL WIRING DEVICES SHOWN IN SPACE WITH OWNER PRIOR TO ROUGH-IN.
8. PROVIDE TAMPER-RESISTANT RECEPTACLES IN THIS ROOM/SPACE TO MEET NEC ARTICLE 406.12 REQUIREMENT.
9. E.C. SHALL BE RESPONSIBLE FOR COORDINATING ALL ELECTRICAL EQUIPMENT AND DEVICE LOCATIONS WITH ELEVATOR EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN OF ANY ELECTRICAL EQUIPMENT. INTEGRATE EXISTING FIRE ALARM SYSTEM TO NEW ELEVATOR CONTROLS AS REQUIRED FOR ELEVATOR RECALL FUNCTION. PROVIDE TVSS SURGE PROTECTION DEVICE ON ELEVATOR CONTROLLER SIMILAR TO CURRENT TECHNOLOGY LOAD GUARD.
10. COORDINATE EXACT MOUNTING LOCATION AND HEIGHT WITH OWNER PRIOR TO ROUGH-IN OF DEVICES FOR TV MONITOR/LED SCREEN. PROVIDE FSR INC. #PWB-100-WHT PROJECT WALL BOX FOR INSTALLATION OF DEVICES. CONCEAL WALL BOX BEHIND TV MONITOR.
11. LOCAL A/V SYSTEM EQUIPMENT TO BE LOCATED IN BASE CABINET. PROVIDE FAN KIT WITH THERMOSTAT CONTROL. PROVIDE (3) FANS PRODUCING MINIMUM 150 CFM AT MAXIMUM 21 DBA. INSTALL AT UPPER SLOT OPENING. COORDINATE INSTALLATION WITH CABINET MANUFACTURER/INSTALLER.

KEY PLAN
SCALE: N.T.S.

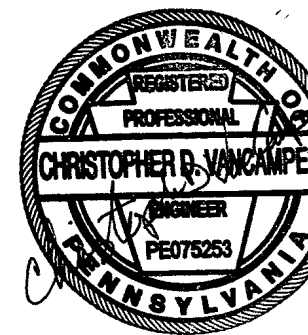


FIRST FLOOR PLAN - UNIT B - POWER
RENOVATIONS TO BERKS COUNTY INTERMEDIATE UNIT 14
BCIU MAIN OFFICE
1111 COMMONS BLVD, READING, PA 19605

ALL DIMENSIONS AND EXISTING CONDITIONS
SHALL BE CHECKED AND VERIFIED
BY THE CONTRACTOR AT THE SITE.
JOB NO.: 24015.00
DRAWN BY: RG
DATE: 10.15.25

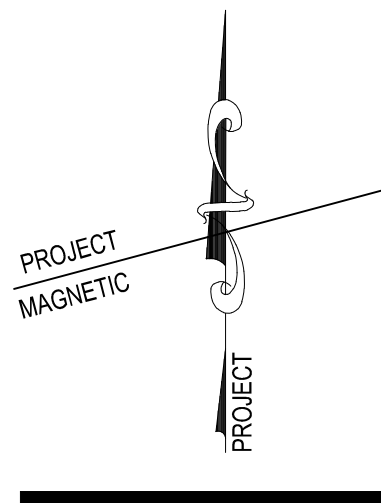
E-B2

CONSOLIDATED
ENGINEERS



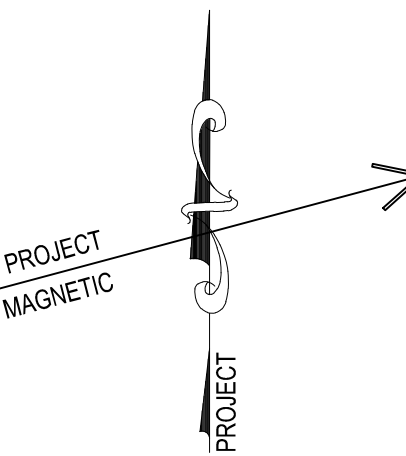
AEM ARCHITECTS INC.
3700 PERKOWEN AVENUE, READING, PA 19606-2785
Phone: 610.79.3220 Fax: 610.79.3222 www.aem-arch.com


1022 James Drive
Leopold, PA 19533
Tel: 610.916.1600 Fax: 610.916.1610
Internet: www.consultingengineers.com





1. LIGHT FIXTURE WIRING. SUB-LETTERS INDICATE WHICH FIXTURE, SWITCH CONTROLS. WIRE TO INDICATED SWITCHES WITHIN ROOM ACCORDINGLY.
2. WIRE LIGHT FIXTURES TO CIRCUIT INDICATED WITHIN ROOM/AREA. CONNECT LIGHT FIXTURES TO BRANCH WIRING CIRCUIT INDICATED IN BOX OR ADJACENT TO FIXTURE. (CIRCUIT INDICATED IS ACTIVE IN ADJACENT AREAS NOT BEING RENOVATED.)
3. CONNECT ALL TYPE "E1" AND "E2" EXIST SIGN LIGHT FIXTURES TO LINE SIDE OF NEAREST 277 VOLT NORMAL/EMERGENCY CORRIDOR LIGHTING CIRCUIT.
4. WIRE LIGHT FIXTURE TO NORMAL/EMERGENCY PANEL AND CIRCUIT NUMBER INDICATED. FIXTURE SHALL BE CONTROLLED VIA ROOM/SPACE LIGHTING CONTROL SYSTEM WITH "NORMAL POWER ONLY" LIGHT FIXTURES. SEE SPECIFICATIONS.
5. PROVIDE NEW CONTROLS IN THIS AREA AS SHOWN AND WIRE TO EXISTING LIGHT FIXTURES AS REQUIRED. MAINTAIN EXISTING THREE-WAY DIMMER SWITCH CONTROL LOCATED IN STORAGE 232A AND BRANCH LIGHTING CIRCUIT SERVING THIS AREA.
6. PROVIDE NEW CONTROLS IN THIS AREA AS SHOWN AND WIRE TO EXISTING LIGHT FIXTURES AS REQUIRED. MAINTAIN EXISTING THREE-WAY DIMMER SWITCH CONTROL LOCATED IN IT STORAGE 234K AND BRANCH LIGHTING CIRCUIT SERVING THIS AREA.
7. WIRE UNDERCABINET LIGHT FIXTURE TO TOGGLE SWITCH LOCATED ABOVE COUNTER. CONNECT TO ROOM LIGHTING CIRCUIT AND CONTROL SO THE UNDERCABINET FIXTURES ARE ONLY OPERATIONAL WHEN THE ROOM CEILING LIGHTS ARE OPERATIONAL.



CONSOLIDATED
**ENGINEERS**
1022 James Drive
Leesport, PA 19533
Tel 610-916-1600 Fax 610-916-1610
Internet www.consolidatedengineers.com



AEM ARCHITECTS INC.

3700 PERKIOMEN AVENUE, READING, PA 19606-2795
Phone: 610.779.3220 www.aem-arch.com
Fax: 610.779.9022

SECOND FLOOR PLAN - UNIT B - LIGHTING

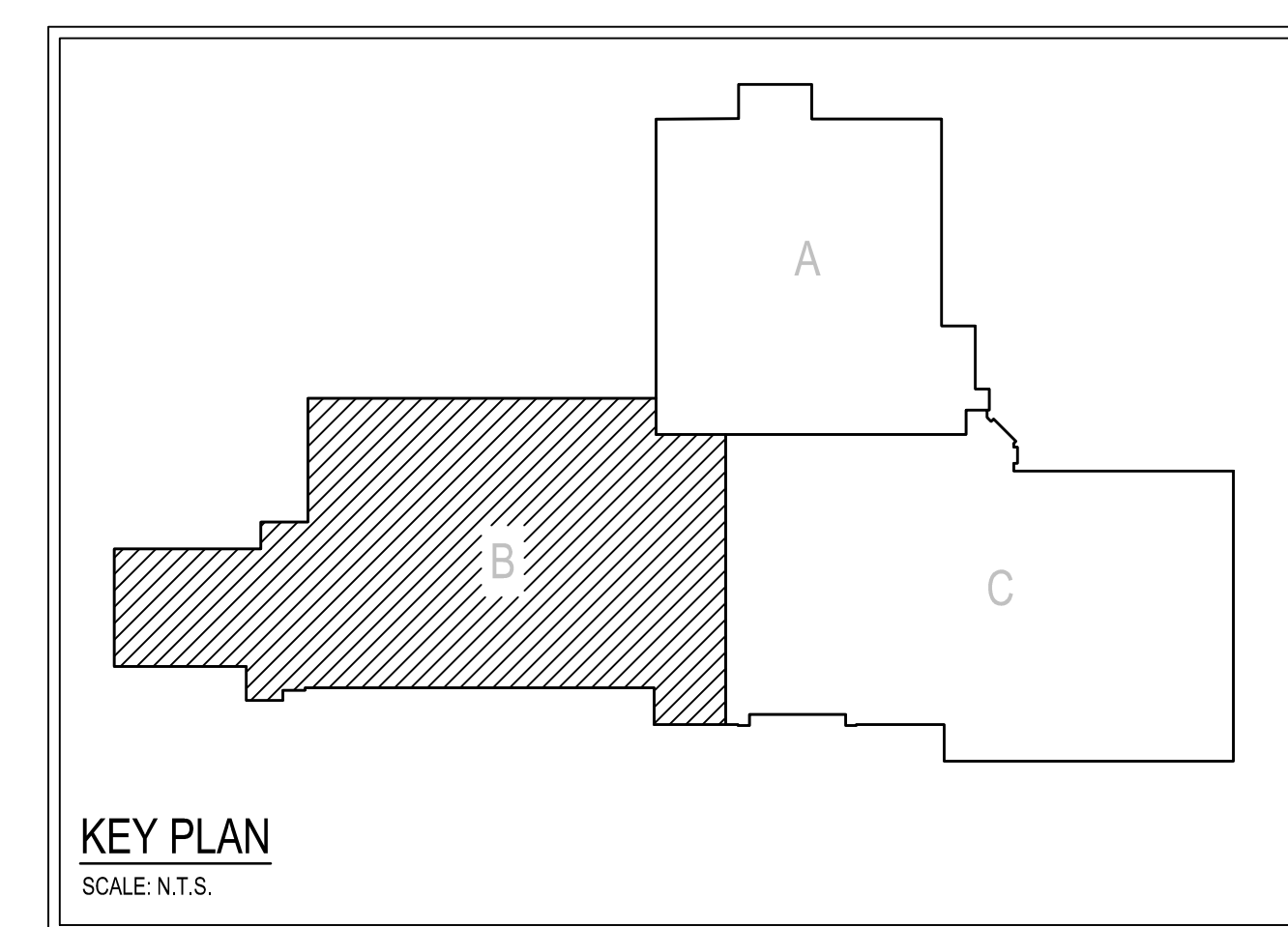
RENOVATIONS TO BERKS COUNTY INTERMEDIATE UNIT 14

BCIU MAIN OFFICE

1111 COMMONS BLVD, READING, PA 19605

JOB NO.: 24015.00
DRAWN BY: RG
DATE: 10.15.25

E-B3



E-B3



**CONSOLIDATED
ENGINEERS**
1022 James Drive
Leesport, PA 19533
Tel 610-916-1600 Fax 610-916-1601
Internet www.consolidatedeng.com



AEM | **ARCHITECTS INC.**

37300 PERKIOMEN AVENUE, READING, PA 19606-2795
Phone: 610.779.3220 Fax: 610.779.9022
www.aem-arch.com

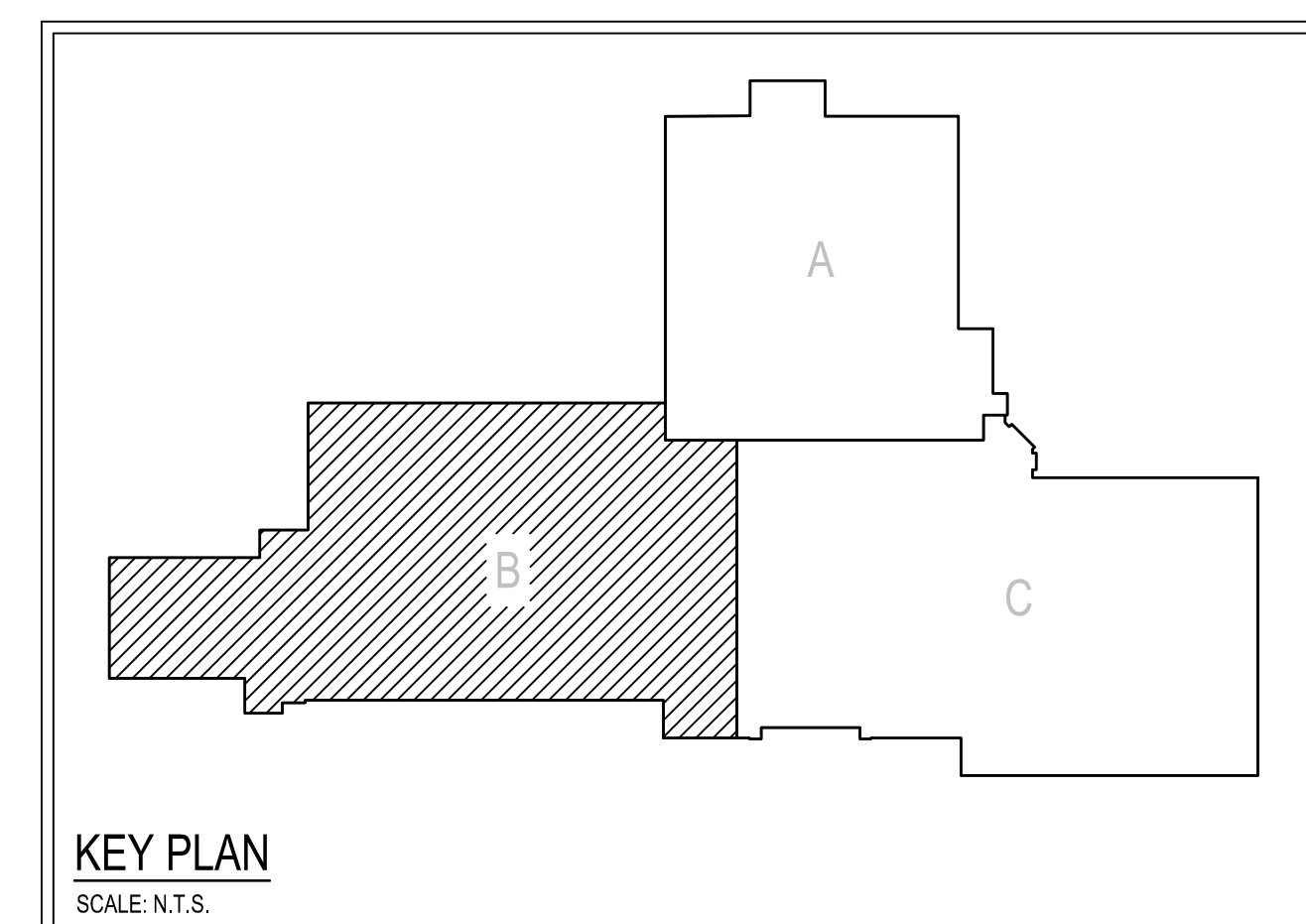
SECOND FLOOR PLAN - UNIT B - POWER

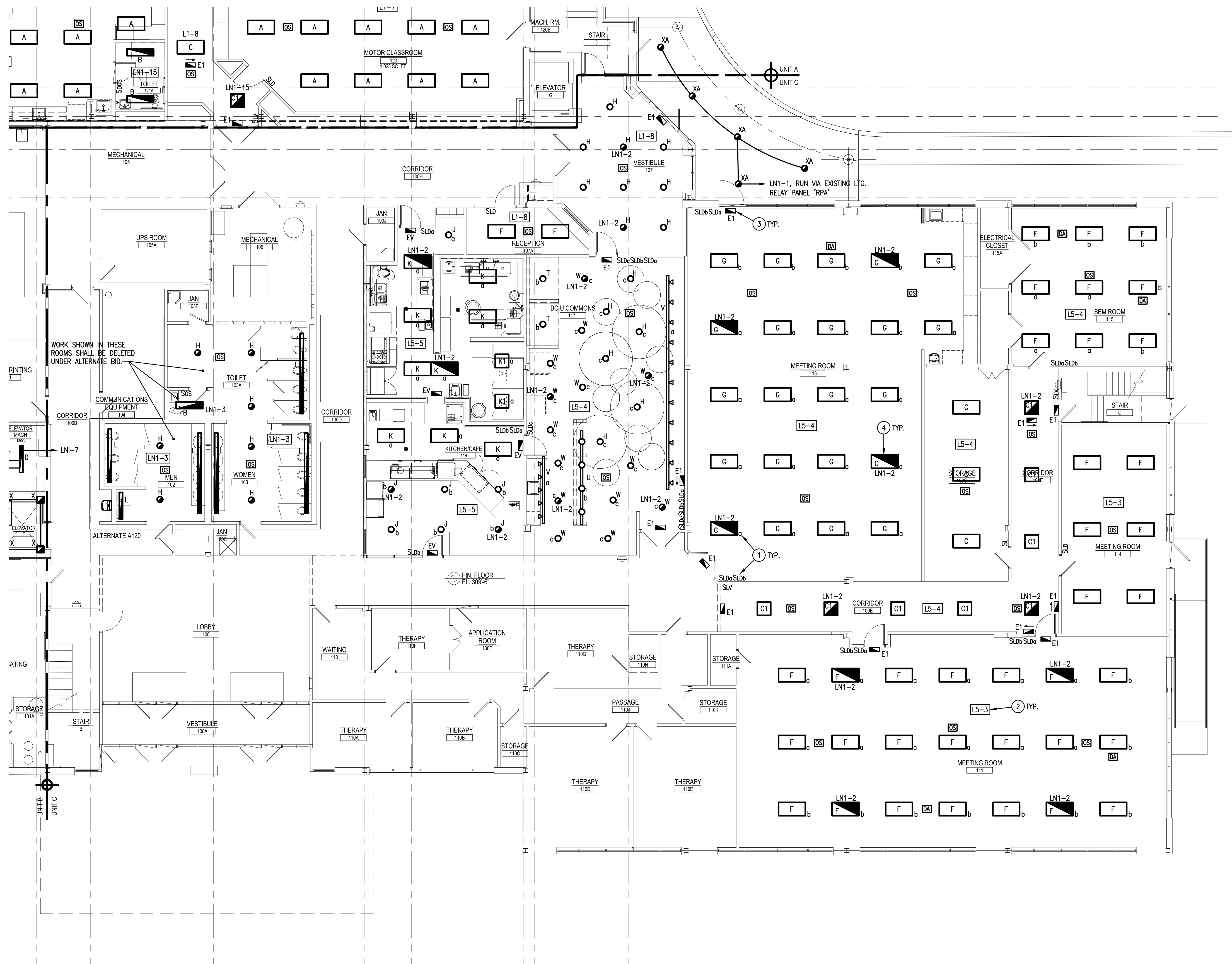
RENOVATIONS TO BERKS COUNTY INTERMEDIATE UNIT 14
BCIU MAIN OFFICE

1111 COMMONS BLVD, READING, PA 19605

JOB NO.: 24015.00
DRAWN BY: RG
DATE: 10.15.25

E-B4

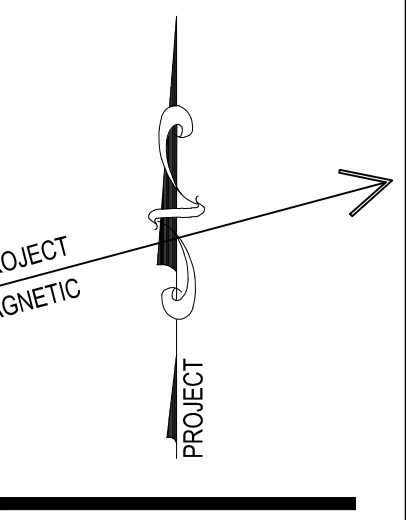
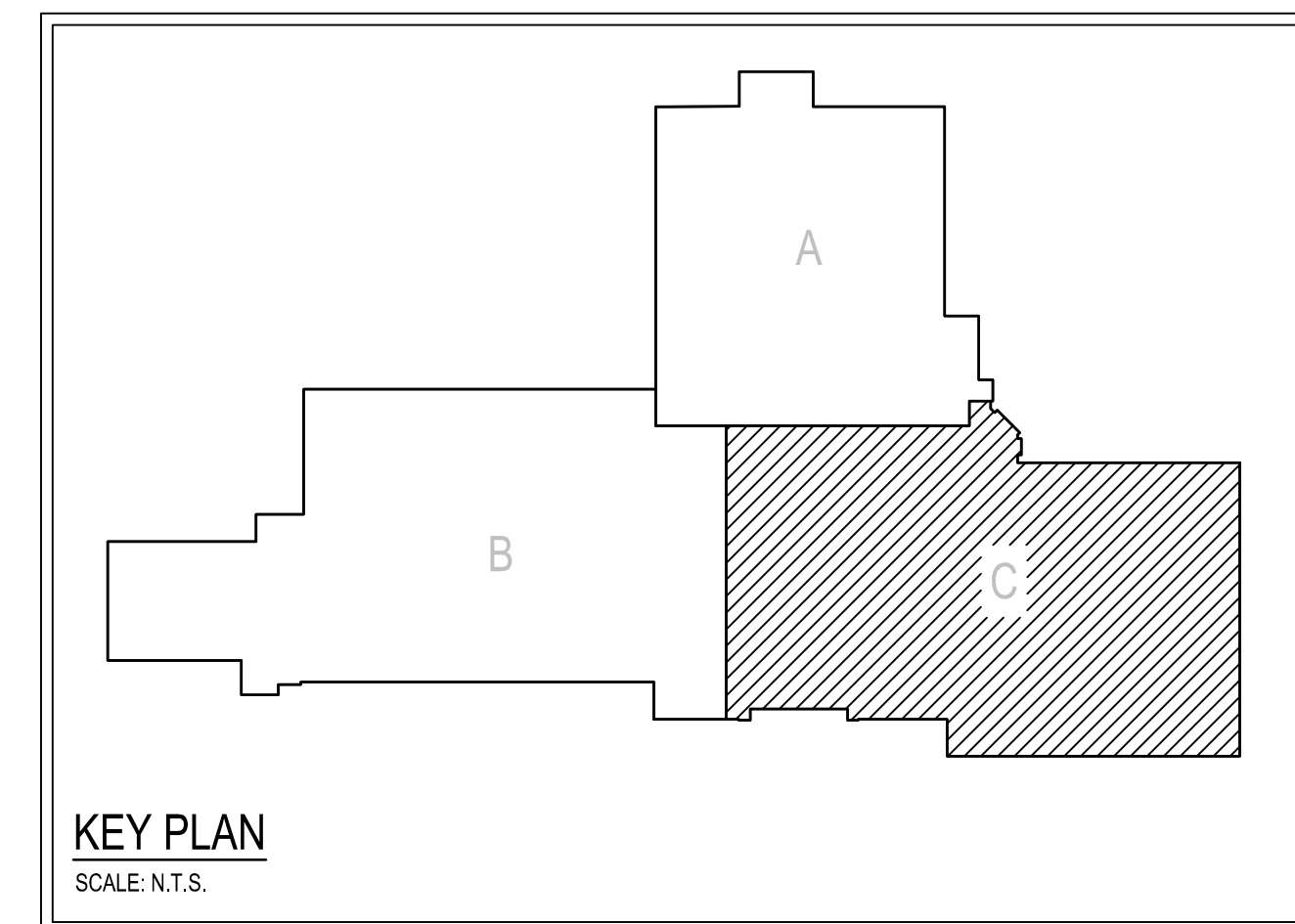




FIRST FLOOR PLAN - UNIT C - LIGHTING
SCALE: 1/8" = 1'-0"

DRAWING NOTES:

1. LIGHT FIXTURE WIRING. SUB-LETTERS INDICATE WHICH FIXTURE, SWITCH CONTROLS. WIRE TO INDICATED SWITCHES WITHIN ROOM ACCORDINGLY.
2. WIRE LIGHT FIXTURES TO CONTROLS INDICATED WITHIN ROOM/AREA. CONNECT LIGHT FIXTURES TO BRANCH WIRING CIRCUIT INDICATED IN BOX OR ADJACENT TO FIXTURE. (CIRCUIT INDICATED IS ACTIVE IN ADJACENT AREAS NOT BEING RENOVATED.)
3. CONNECT ALL TYPE 'E1' AND 'E2' EXIT SIGN LIGHT FIXTURES TO LINE SIDE OF NEAREST 277 VOLT NORMAL/EMERGENCY CORRIDOR LIGHTING CIRCUIT.
4. WIRE LIGHT FIXTURE TO NORMAL/EMERGENCY PANEL AND CIRCUIT NUMBER INDICATED. FIXTURE SHALL BE CONTROLLED VIA ROOM/SPACE LIGHTING CONTROL SYSTEM WITH "NORMAL POWER ONLY" LIGHT FIXTURES. SEE SPECIFICATIONS.
5. PROVIDE NEW CONTROLS IN THIS AREA AS SHOWN AND WIRE TO EXISTING LIGHT FIXTURES AS REQUIRED. MAINTAIN EXISTING THREE-WAY DIMMER SWITCH CONTROL LOCATED IN STORAGE 232A AND BRANCH LIGHTING CIRCUIT SERVING THIS AREA.
6. PROVIDE NEW CONTROLS IN THIS AREA AS SHOWN AND WIRE TO EXISTING LIGHT FIXTURES AS REQUIRED. MAINTAIN EXISTING THREE-WAY DIMMER SWITCH CONTROL LOCATED IN IT STORAGE 234K AND BRANCH LIGHTING CIRCUIT SERVING THIS AREA.
7. WIRE UNDERCABINET LIGHT FIXTURE TO TOGGLE SWITCH LOCATED ABOVE COUNTER. CONNECT TO ROOM LIGHTING CIRCUIT AND CONTROL SO THE UNDERCABINET FIXTURES ARE ONLY OPERATIONAL WHEN THE ROOM CEILING LIGHTS ARE OPERATIONAL.



CONSOLIDATED ENGINEERS
1022 James Drive
Leesport, PA 19833
Tel: 610-916-1600 Fax: 610-916-1610
Internet: www.consolidatedengineers.com

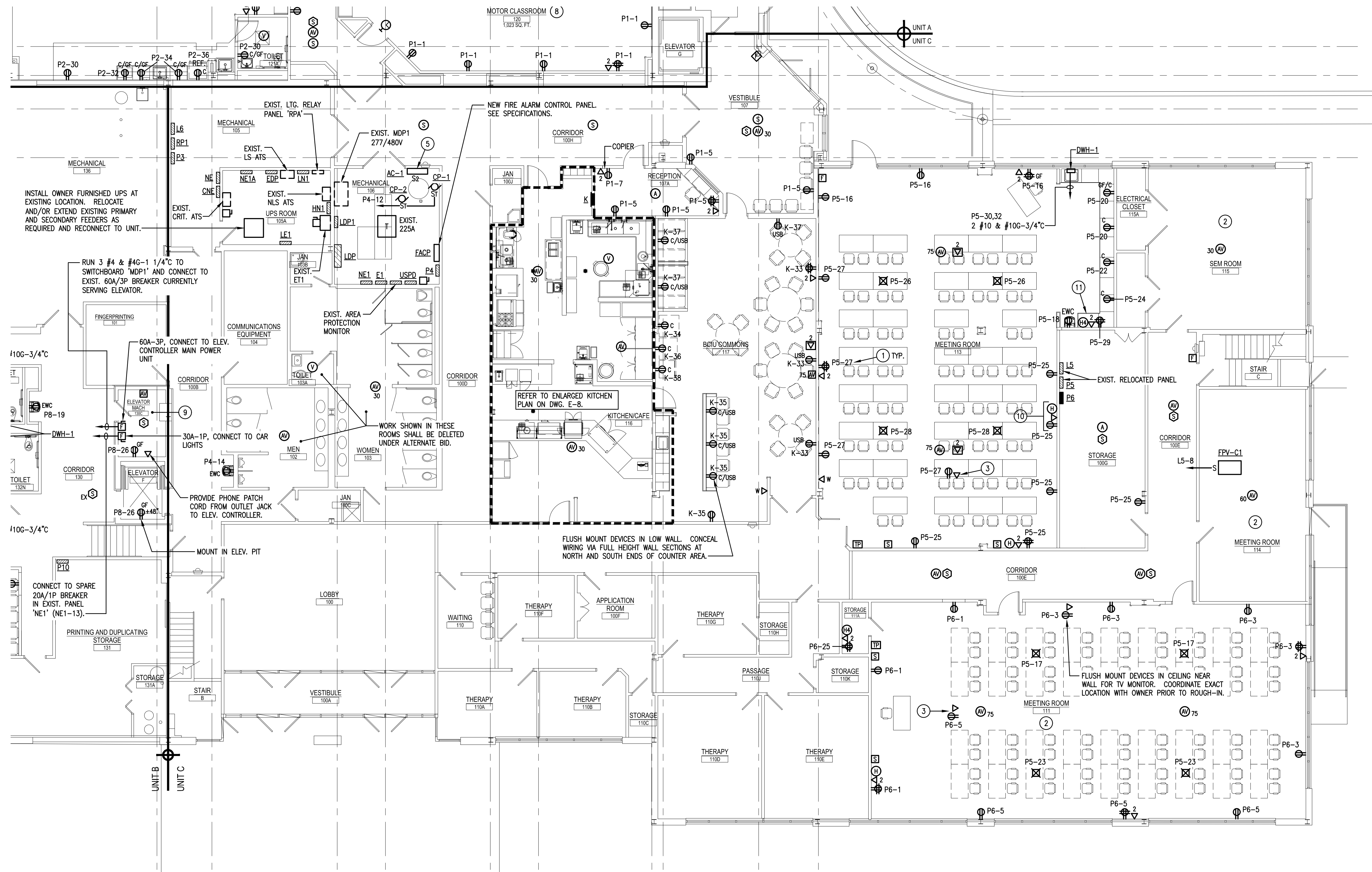


AEM ARCHITECTS INC.
3700 PERKIDOMEN AVENUE, READING, PA 19606-2785
Phone: 610-793-3220 Fax: 610-793-8222
www.aem-arch.com

FIRST FLOOR PLAN - UNIT C - LIGHTING
RENOVATIONS TO BERKS COUNTY INTERMEDIATE UNIT 14
BCIU MAIN OFFICE
1111 COMMONS BLVD, READING, PA 19605

ALL DIMENSIONS AND EXISTING CONDITIONS
WILL BE CHECKED AND VERIFIED
BY THE CONTRACTOR AT THE SITE.
JOB NO.: 24015.00
DRAWN BY: RG
DATE: 10.15.25

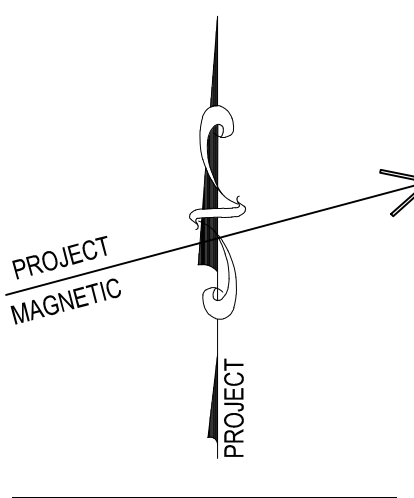
E-C1



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

DRAWING NOTES:

1. CIRCUIT ROOM RECEPTABLES TO CIRCUIT INDICATED IN BOX OR CIRCUIT NUMBER INDICATED ADJACENT TO OUTLET VIA 2 #12 & #120-3/4" UNLESS NOTED OTHERWISE.
2. E.C. SHALL REINSTALL WIRELESS NODE(S) IN THIS SPACE UPON COMPLETION OF NEW CEILING GRID WORK. COORDINATE EXACT MOUNTING LOCATION OF DEVICES WITH OWNER AND EXISTING ABOVE CEILING DATA JACK LOCATIONS, PRIOR TO ROUGH-IN.
3. FLUSH MOUNT DUPLEX RECEPTACLE AND DATA JACK IN CEILING ADJACENT TO PROJECTOR LOCATION. COORDINATE EXACT MOUNTING LOCATION WITH OWNER PRIOR TO ROUGH-IN. E.C. TO INSTALL CEILING PROJECTOR FURNISHED BY OWNER AND PROVIDE ALL REQUIRED MOUNTING HARDWARE.
4. PROVIDE DEVICES FOR SHORT-THROW TYPE PROJECTOR. COORDINATE EXACT MOUNTING LOCATION OF DEVICES (FLUSH WALL MOUNTED WITHIN PROJECTOR STAND) WITH OWNER PRIOR TO ROUGH-IN. E.C. TO INSTALL SHORT-THROW PROJECTOR FURNISHED BY OWNER AND PROVIDE ALL REQUIRED MOUNTING HARDWARE.
5. CONNECT INDOOR UNIT (AC) TO ASSOCIATED CONDENSING UNIT TERMINAL BLOCK WITH WIRING (QUANTITY AND SIZE) PER MANUFACTURER RECOMMENDATIONS IN 3/4" CONDUIT.
6. CONNECT EXHAUST FAN TO ROOM LIGHTING SWITCH. PROVIDE CONTACTOR/RELAY AS REQUIRED TO CONTROL 120V FAN FROM 277V LIGHT SWITCH AND ROOM LIGHTING.
7. COORDINATE FINAL LOCATION/PLACEMENT OF ALL WIRING DEVICES SHOWN IN SPACE WITH OWNER PRIOR TO ROUGH-IN.
8. PROVIDE TAMPER-RESISTANT RECEPTABLES IN THIS ROOM/SPACE TO MEET NEC ARTICLE 406.12 REQUIREMENT.
9. E.C. SHALL BE RESPONSIBLE FOR COORDINATING ALL ELECTRICAL EQUIPMENT AND DEVICE LOCATIONS WITH ELEVATOR EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN OF ANY ELECTRICAL EQUIPMENT. INTEGRATE EXISTING FIRE ALARM SYSTEM TO NEW ELEVATOR CONTROLS AS REQUIRED FOR ELEVATOR RECALL FUNCTION. PROVIDE TVSS SURGE PROTECTION DEVICE ON ELEVATOR CONTROLLER SIMILAR TO CURRENT TECHNOLOGY LOAD GUARD.
10. COORDINATE EXACT MOUNTING LOCATION AND HEIGHT WITH OWNER PRIOR TO ROUGH-IN OF DEVICES FOR TV MONITOR/LED SCREEN. PROVIDE FSR INC. #FWB-100-WHT PROJECT WALL BOX FOR INSTALLATION OF DEVICES. CONCEAL WALL BOX BEHIND TV MONITOR.
11. LOCAL A/V SYSTEM EQUIPMENT TO BE LOCATED IN BASE CABINET. PROVIDE FAN KIT WITH THERMOSTAT CONTROL. PROVIDE (3) FANS PRODUCING MINIMUM 150 CFM AT MAXIMUM 21 DBA. INSTALL AT UPPER SLOT OPENING. COORDINATE INSTALLATION WITH CABINET MANUFACTURER/INSTALLER.



CONSOLIDATED
ENGINEERS
1022 James Drive
Leopold, PA 15033
Tel: 610-916-1600 Fax: 610-916-1610
Internet: www.consultingengineers.com

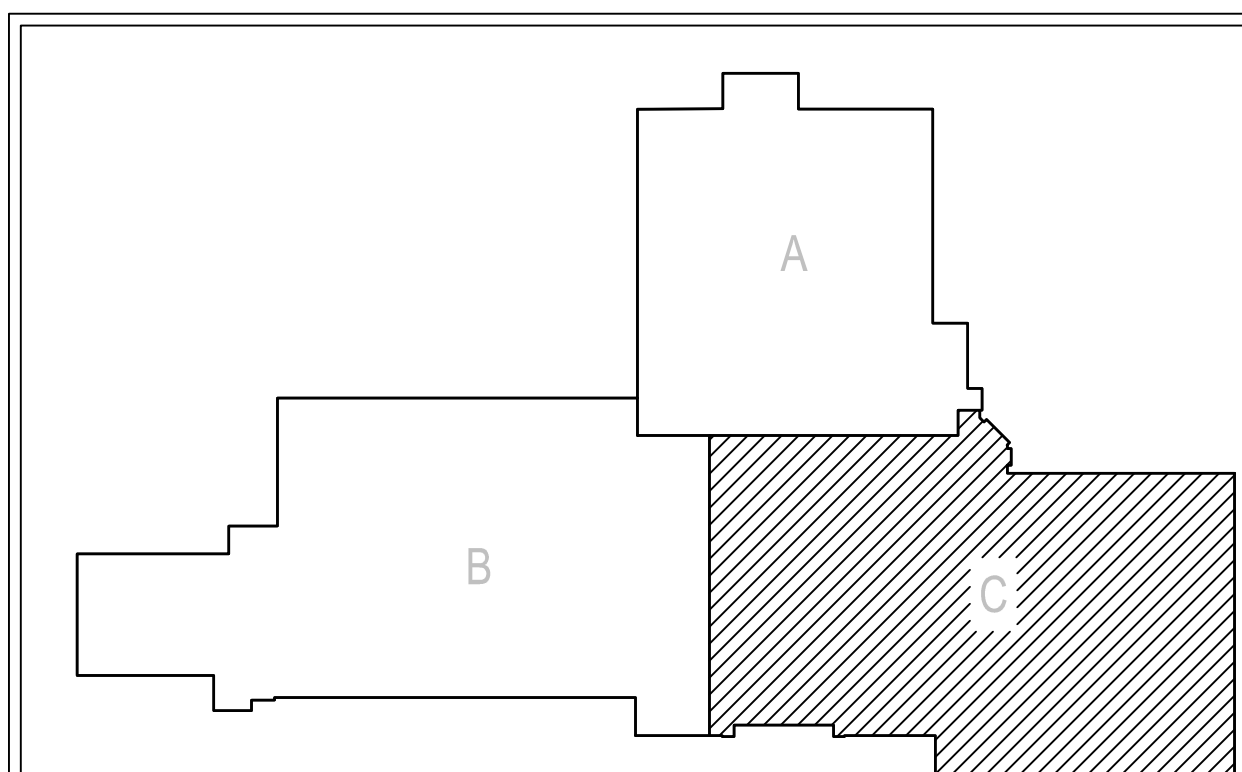


AEM ARCHITECTS INC.
3700 PERKIDOMEN AVENUE, READING, PA 19606-2785
Phone: 610-779-3220 Fax: 610-779-3222 www.aem-arch.com

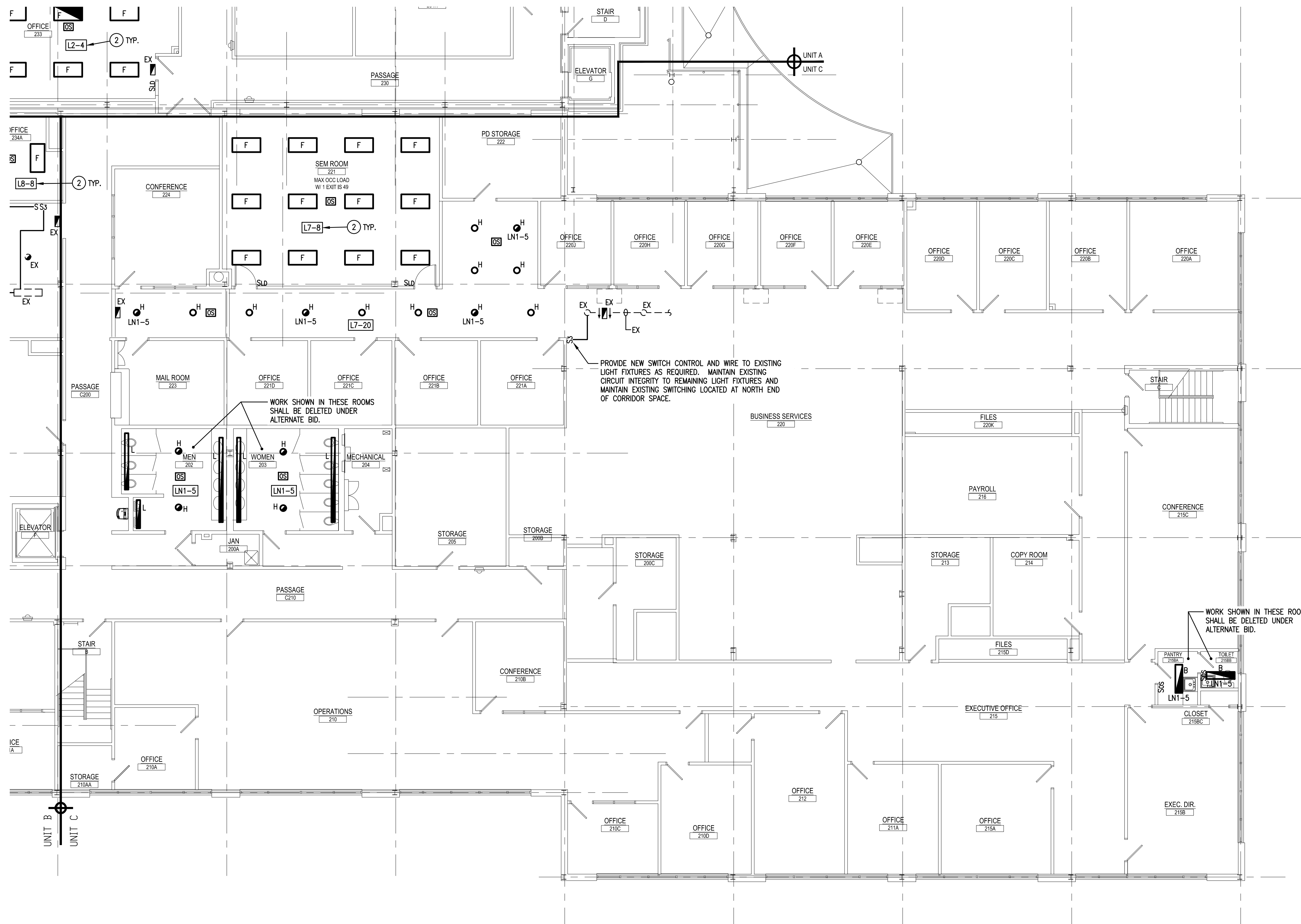
FIRST FLOOR PLAN - UNIT C - POWER
RENOVATIONS TO BERKS COUNTY INTERMEDIATE UNIT 14
BCIU MAIN OFFICE
1111 COMMONS BLVD, READING, PA 19605

ALL DIMENSIONS AND EXISTING CONDITIONS
SHALL BE CHECKED AND VERIFIED
BY THE CONTRACTOR AT THE SITE.
JOB NO.: 24015.00
DRAWN BY: RG
DATE: 10.15.25

E-C2



KEY PLAN
SCALE: N.T.S.

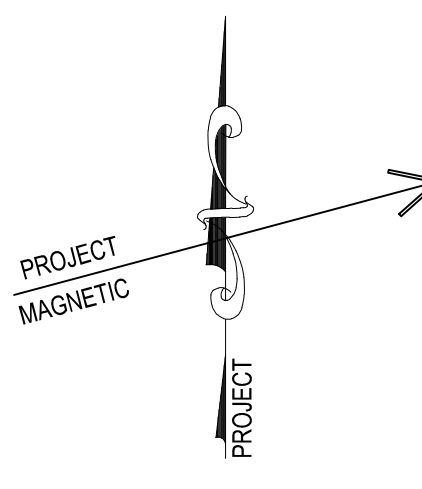


SECOND FLOOR PLAN - UNIT C - LIGHTING

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

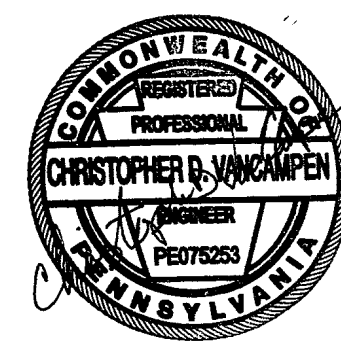
DRAWING NOTES:

1. LIGHT FIXTURE WIRING. SUB-LETTERS INDICATE WHICH FIXTURE, SWITCH CONTROLS. WIRE TO INDICATED SWITCHES WITHIN ROOM ACCORDINGLY.
2. WIRE LIGHT FIXTURES TO CONTROLS INDICATED WITHIN ROOM/AREA. CONNECT LIGHT FIXTURES TO BRANCH WIRING CIRCUIT INDICATED IN BOX OR ADJACENT TO FIXTURE. (CIRCUIT INDICATED IS ACTIVE IN ADJACENT AREAS NOT BEING RENOVATED.)
3. CONNECT ALL TYPE "E1" AND "E2" EXIT SIGN LIGHT FIXTURES TO LINE SIDE OF NEAREST 277 VOLT NORMAL/EMERGENCY CORRIDOR LIGHTING CIRCUIT.
4. WIRE LIGHT FIXTURE TO NORMAL/EMERGENCY PANEL AND CIRCUIT NUMBER INDICATED. FIXTURE SHALL BE CONTROLLED VIA ROOM/SPACE LIGHTING CONTROL SYSTEM WITH "NORMAL POWER ONLY" LIGHT FIXTURES. SEE SPECIFICATIONS.
5. PROVIDE NEW CONTROLS IN THIS AREA AS SHOWN AND WIRE TO EXISTING LIGHT FIXTURES AS REQUIRED. MAINTAIN EXISTING THREE-WAY DIMMER SWITCH CONTROL LOCATED IN STORAGE 232A AND BRANCH LIGHTING CIRCUIT SERVING THIS AREA.
6. PROVIDE NEW CONTROLS IN THIS AREA AS SHOWN AND WIRE TO EXISTING LIGHT FIXTURES AS REQUIRED. MAINTAIN EXISTING THREE-WAY DIMMER SWITCH CONTROL LOCATED IN IT STORAGE 234K AND BRANCH LIGHTING CIRCUIT SERVING THIS AREA.
7. WIRE UNDERCABINET LIGHT FIXTURE TO TOGGLE SWITCH LOCATED ABOVE COUNTER. CONNECT TO ROOM LIGHTING CIRCUIT AND CONTROL SO THE UNDERCABINET FIXTURES ARE ONLY OPERATIONAL WHEN THE ROOM CEILING LIGHTS ARE OPERATIONAL.



CONSOLIDATED
ENGINEERS

1022 James Drive
Leesport, PA 19533
Tel: 610-916-1600 Fax: 610-916-1610
Internet: www.consolidatedengineers.com



AEM ARCHITECTS, INC.
3700 PERKIDOMEN AVENUE, READING, PA 19606-2785
Phone: 610-779-3220 Fax: 610-779-3222
www.aem-arch.com

SECOND FLOOR PLAN - UNIT C - LIGHTING

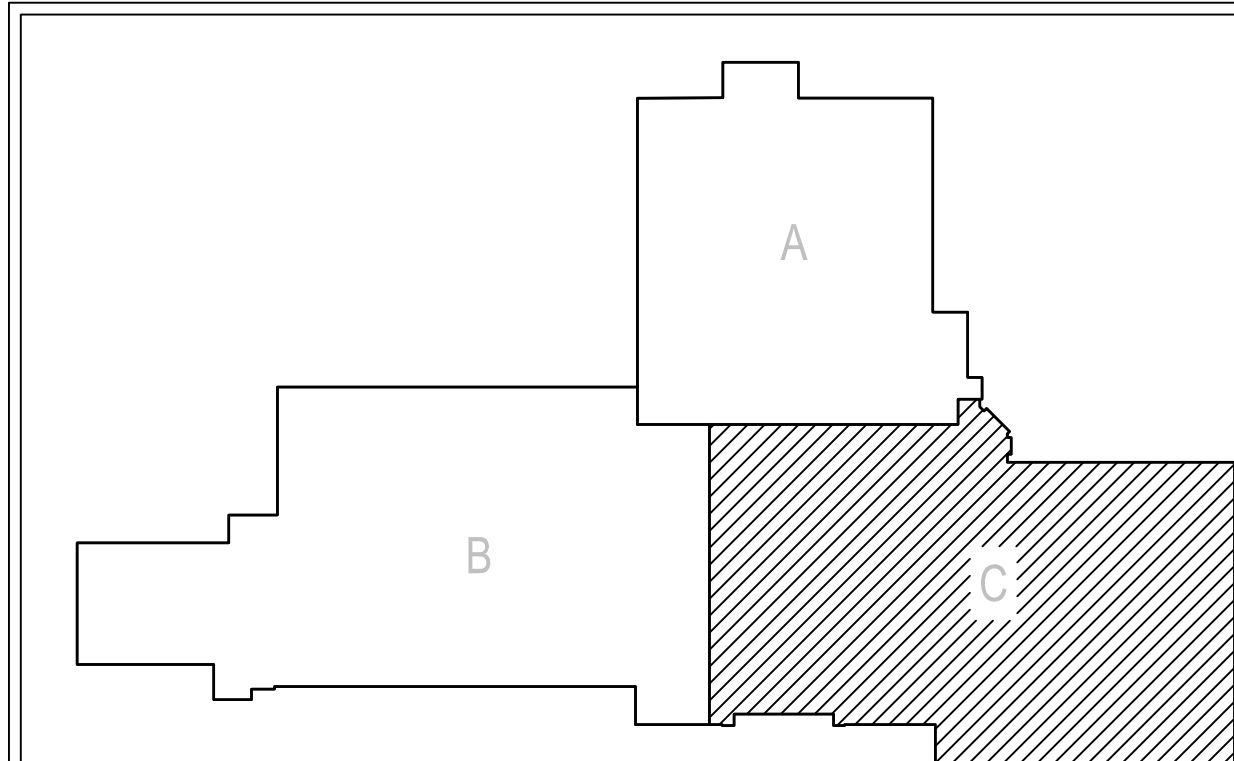
RENOVATIONS TO BERKS COUNTY INTERMEDIATE UNIT 14

BCIU MAIN OFFICE

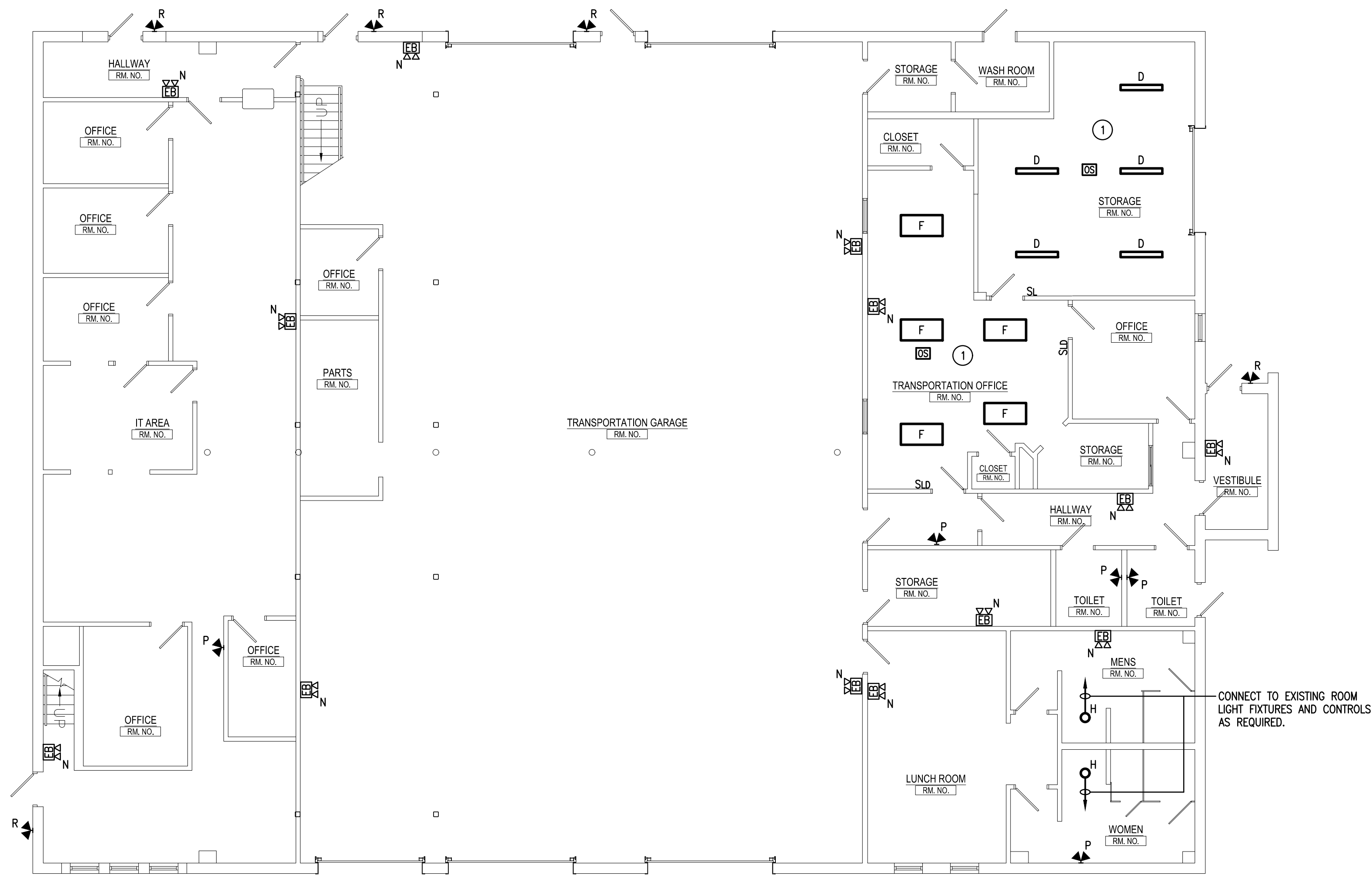
1111 COMMONS BLVD, READING, PA 19605

ALL DIMENSIONS AND EXISTING CONDITIONS
SHALL BE CHECKED AND VERIFIED
BY THE CONTRACTOR AT THE SITE.
JOB NO.: 24015.00
DRAWN BY: RG
DATE: 10.15.25

E-C3



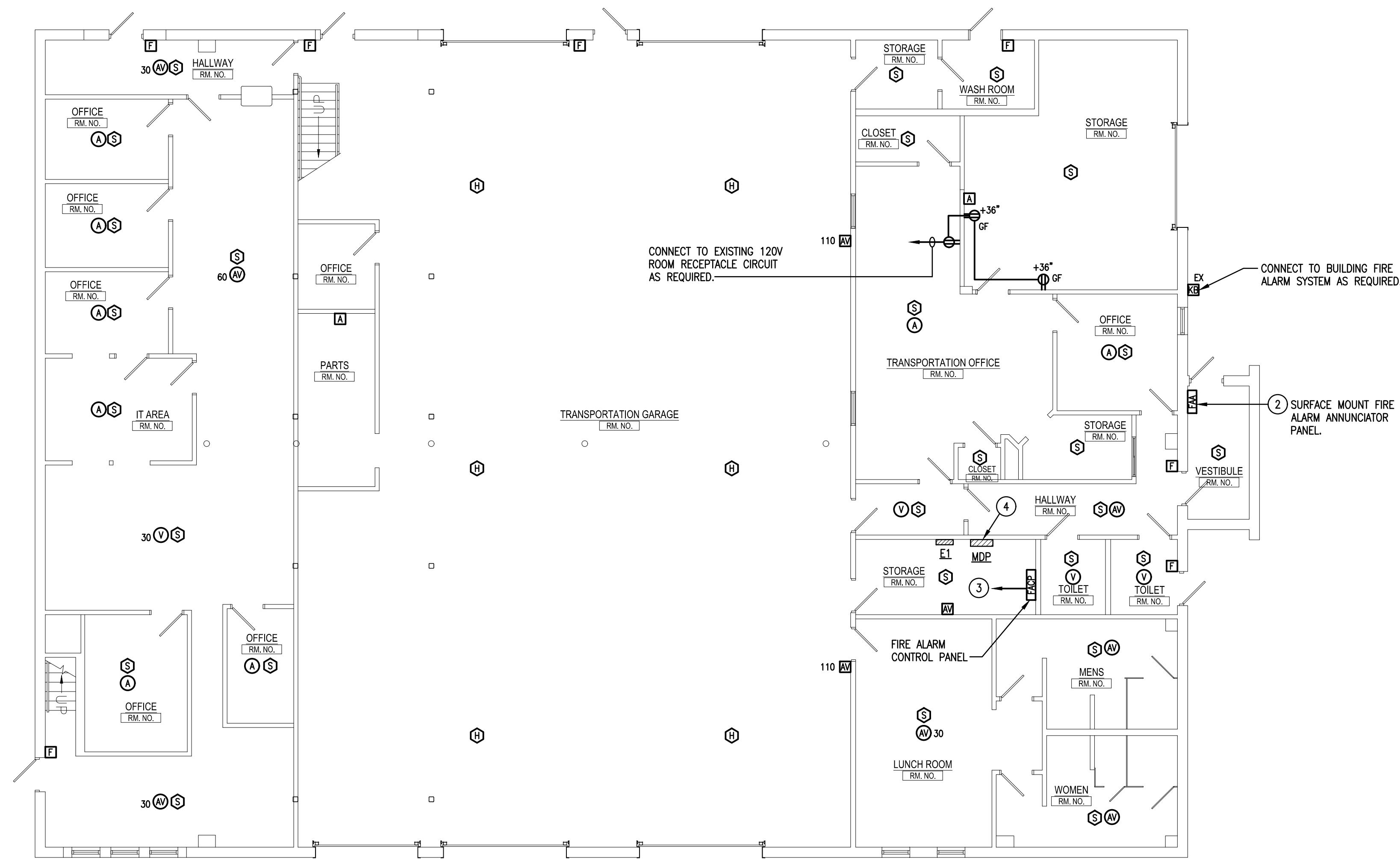
KEY PLAN
SCALE: N.T.S.



READING CREST FIRST FLOOR PLAN - LIGHTING

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

CONNECT ALL TYPE 'E3' EXIT SIGN AND TYPE 'N' EMERGENCY BATTERY UNIT LIGHT FIXTURES TO NEAREST, UNSWITCHED 277V LIGHTING CIRCUIT VIA 2 #12 & #12G-3/4". WIRE TYPE 'P' & 'R' LIGHT FIXTURES TO NEAREST TYPE 'N' EMERGENCY BATTERY UNIT VIA 2 #12 & #12G-3/4". (WIRE ONLY (1) TWIN REMOTE LIGHT FIXTURE TYPE PER EACH BATTERY UNIT).

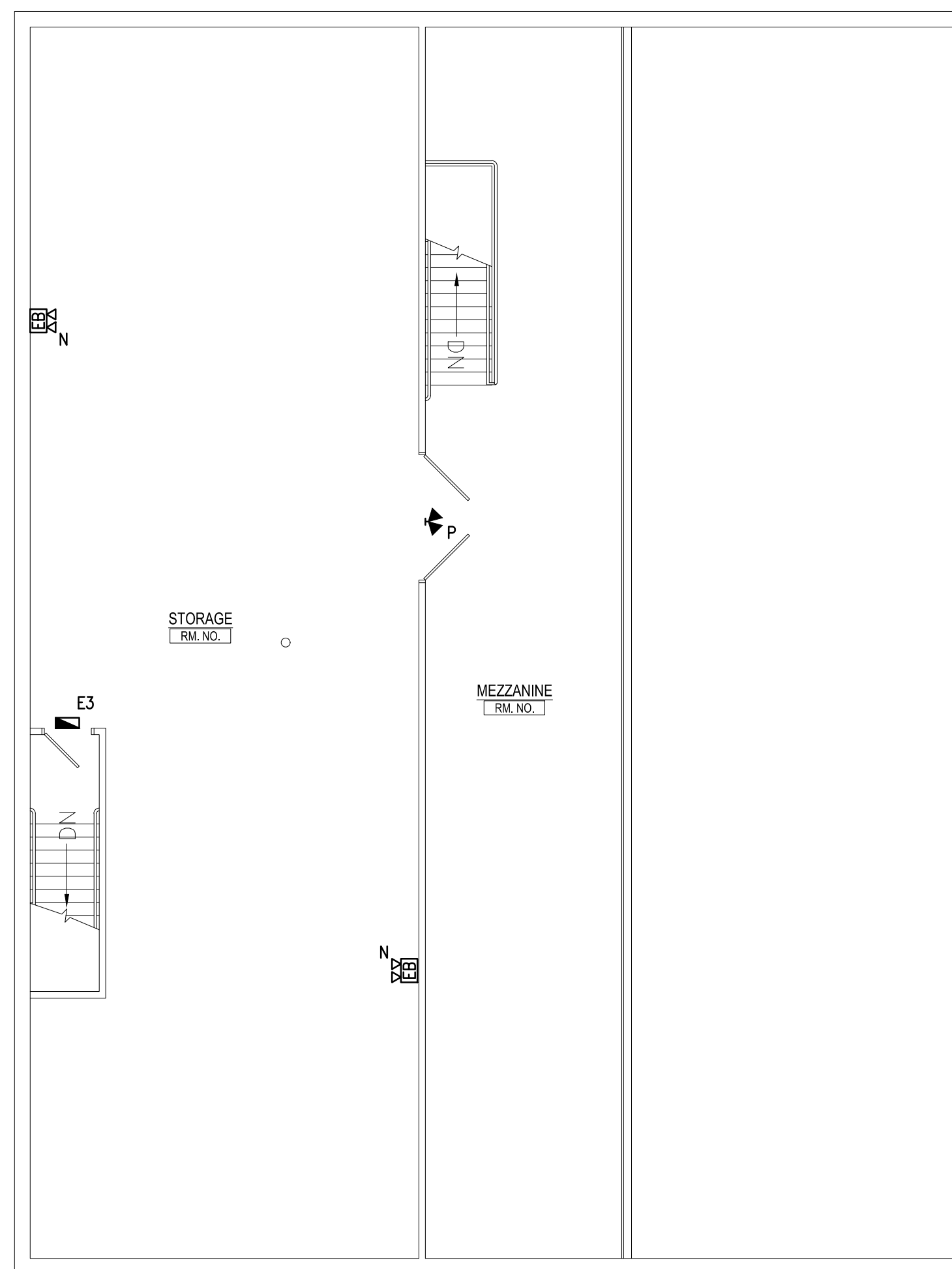


READING CREST FIRST FLOOR PLAN - POWER

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

DRAWING NOTES:

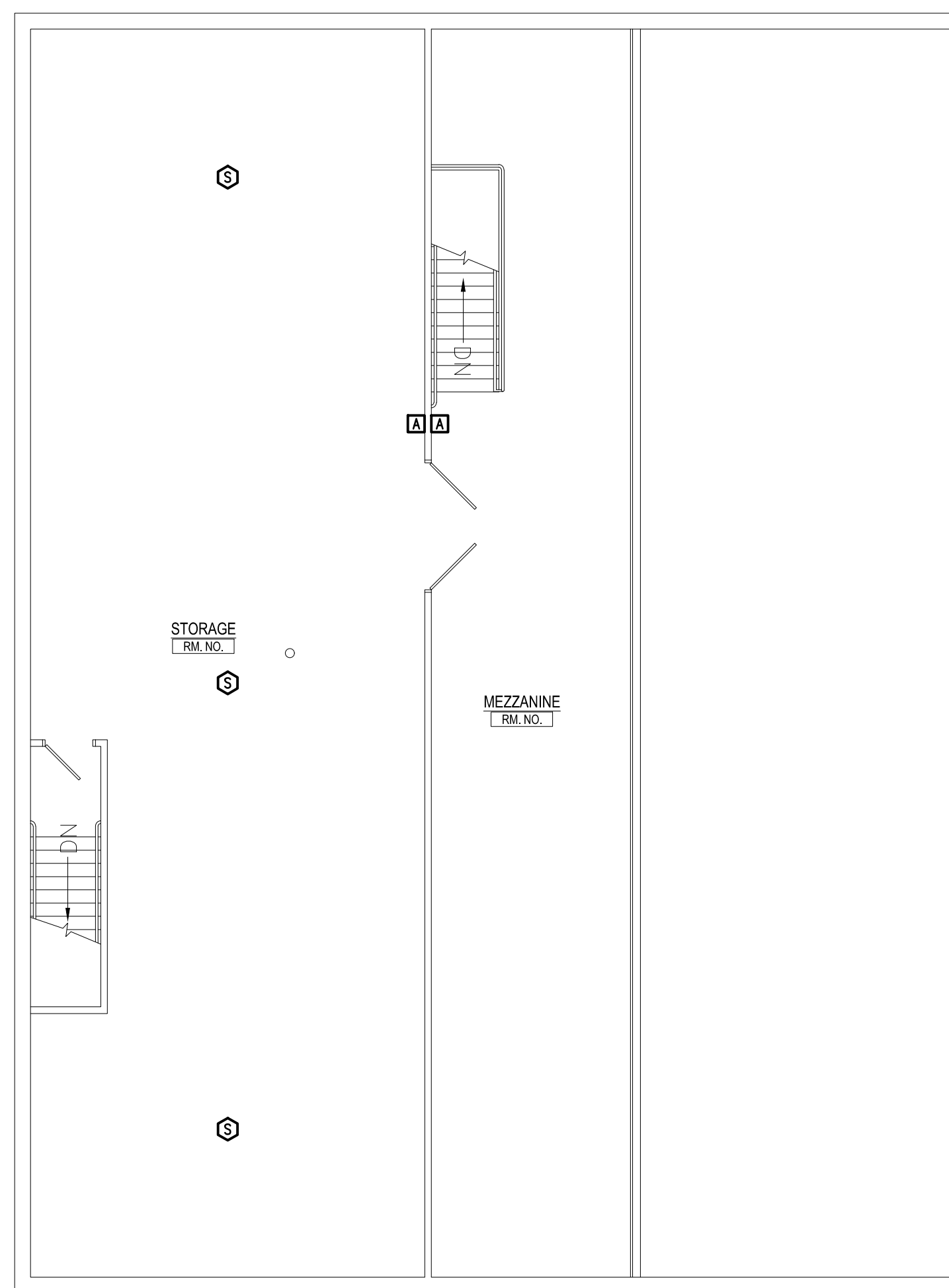
1. WIRE LIGHT FIXTURES TO CONTROLS INDICATED WITHIN ROOM/AREA. CONNECT LIGHT FIXTURES TO EXISTING BRANCH WIRING CIRCUIT SERVING THIS AREA AS REQUIRED VIA 2 #12 & #12G-3/4".
2. COORDINATE EXACT MOUNTING LOCATION WITH LOCAL AUTHORITY HAVING JURISDICTION AND FIRE MARSHAL PRIOR TO ROUGH-IN.
3. CONNECT TO SPARE 20A/1P BREAKER IN EXISTING PANEL 'E1'. PROVIDE BREAKER HANDLE LOCK-ON ACCESSORY FOR EXISTING SIEMENS BREAKER.
4. PROVIDE TRANSIENT VOLTAGE SURGE SUPPRESSOR DEVICE PER SPECIFICATIONS FOR MAIN SERVICE PANEL AND LOCATE DEVICE ABOVE PANEL. PROVIDE NEW 60A/3P CIRCUIT BREAKER IN EXISTING PANEL SPACE FOR CONNECTION OF TRANSIENT VOLTAGE SURGE SUPPRESSOR DEVICE VIA SPECIFIED HPV MANUFACTURER CABLE. NEW BREAKER SHALL MATCH EXISTING SIEMENS TYPE S4 PANEL INCLUDING AMPERE INTERRUPTING CAPACITY RATING. PROVIDE ALL REQUIRED BREAKER MOUNTING HARDWARE.



READING CREST SECOND FLOOR PLAN - LIGHTING

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

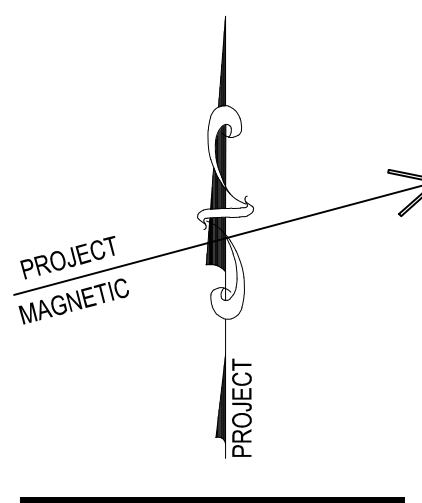
CONNECT ALL TYPE 'E3' EXIT SIGN AND TYPE 'N' EMERGENCY BATTERY UNIT LIGHT FIXTURES TO NEAREST, UNSWITCHED 277V LIGHTING CIRCUIT VIA 2 #12 & #12G-3/4". WIRE TYPE 'P' & 'R' LIGHT FIXTURES TO NEAREST TYPE 'N' EMERGENCY BATTERY UNIT VIA 2 #12 & #12G-3/4". (WIRE ONLY (1) TWIN REMOTE LIGHT FIXTURE TYPE PER EACH BATTERY UNIT).



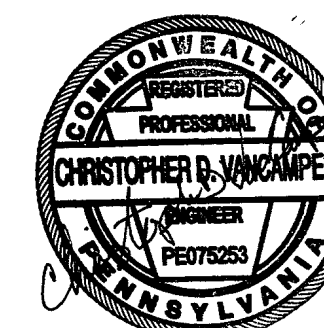
READING CREST SECOND FLOOR PLAN - POWER

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

ALL WORK INDICATED ON THE DRAWING SHALL BE DELETED UNDER ALTERNATE BID.



CONSOLIDATED
ENGINEERS



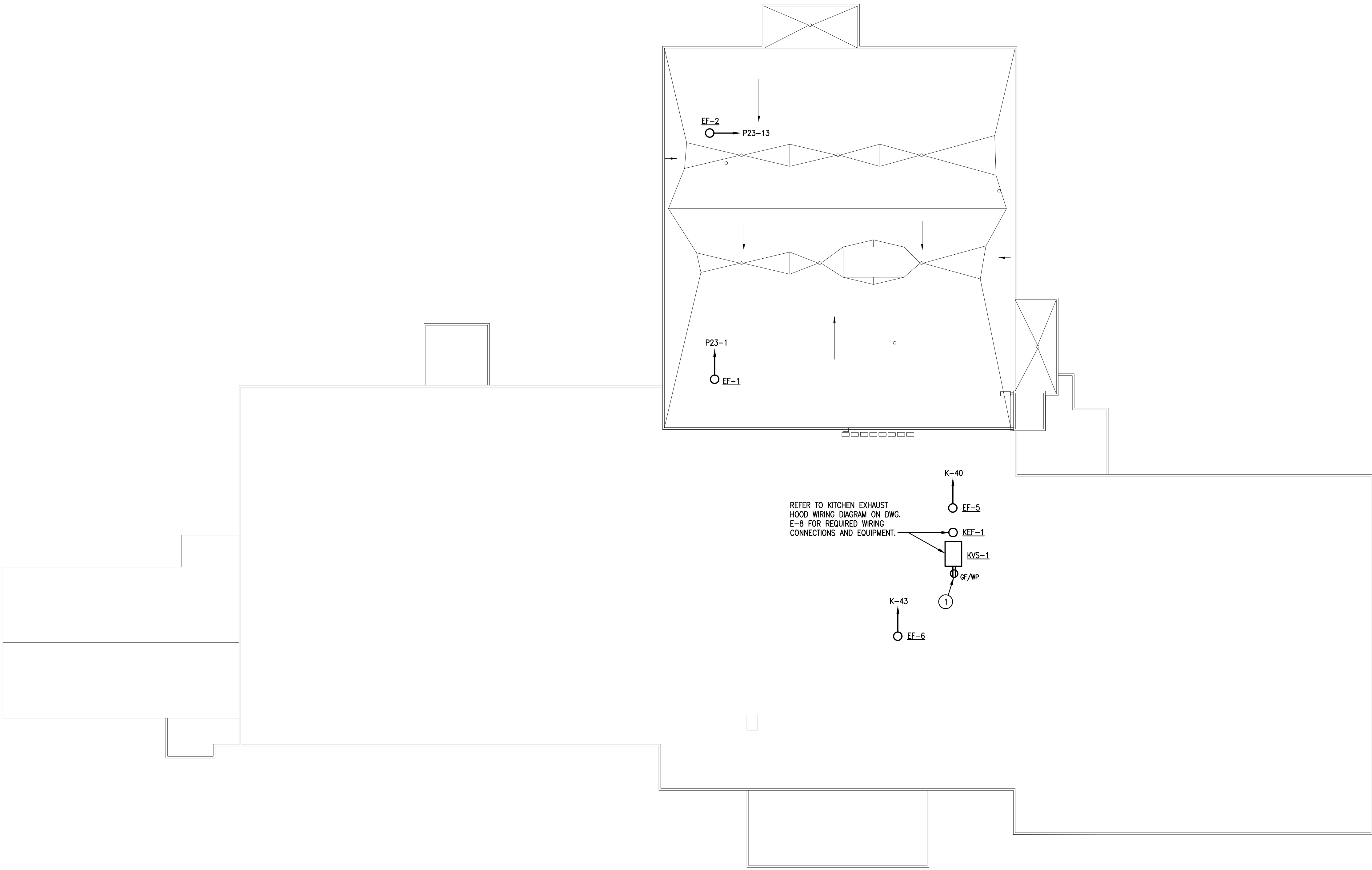
AEM ARCHITECTS INC.
3700 PERKOWEN AVENUE, READING, PA 19606-2785
Phone: 610.79.3220 Fax: 610.79.3222 www.aem-arch.com

READING CREST FLOOR PLANS - LIGHTING & POWER
RENOVATIONS TO BERKS COUNTY INTERMEDIATE UNIT 14
BCIU MAIN OFFICE
1111 COMMONS BLVD, READING, PA 19605

ALL DIMENSIONS AND EXISTING CONDITIONS
WILL BE CHECKED AND VERIFIED
BY THE CONTRACTOR AT THE SITE.

JOB NO.: 24015.00
DRAWN BY: RG
DATE: 10.15.25

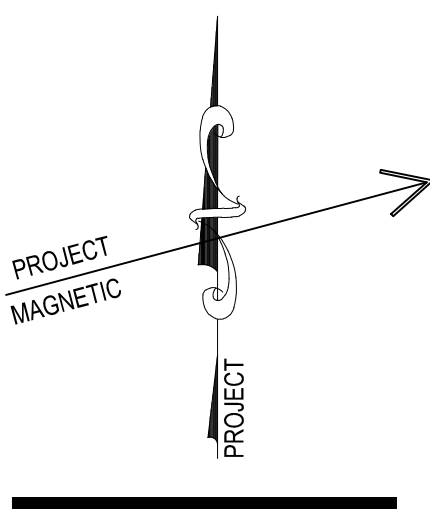
E-D1



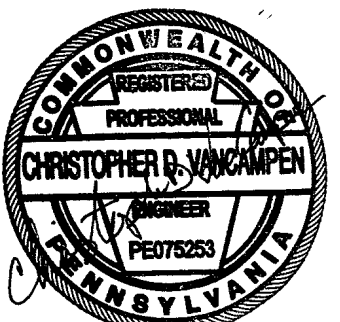
ROOF PLAN - POWER
SCALE: 1/16" = 1'-0"

DRAWING NOTES:

1. MOUNT ROOFTOP RECEPTACLE ON OR ADJACENT TO UNIT MIN. 24" ABOVE ROOF. CONNECT RECEPTACLE TO NEAREST, EXISTING, UNSWITCHED CORRIDOR OR STORAGE ROOM 120V RECEPTACLE CIRCUIT ACCORDINGLY ON FLOOR BELOW.



CONSOLIDATED
ENGINEERS
1022 James Drive
Leesport, PA 19533
Tel: 610-916-1600 Fax: 610-916-1610
Internet: www.consolidatedengineers.com



AEM ARCHITECTS, INC.
3700 PERKIO MEN AVENUE, READING, PA 19606-2785
Phone: 610-793-3220 Fax: 610-793-8122 www.aem-arch.com

ROOF PLAN - POWER
RENOVATIONS TO BERKS COUNTY INTERMEDIATE UNIT 14
BCIU MAIN OFFICE
1111 COMMONS BLVD, READING, PA 19605

ALL DIMENSIONS AND EXISTING CONDITIONS
WERE CHECKED AND VERIFIED
BY THE CONTRACTOR AT THE SITE.
JOB NO.: 24015.00
DRAWN BY: RG
DATE: 10.15.25