

# Generator and Electrical Equipment Replacement

## ROCK VIEW ELEMENTARY SCHOOL

3901 DENFELD AVENUE, KENSINGTON, MD 20895

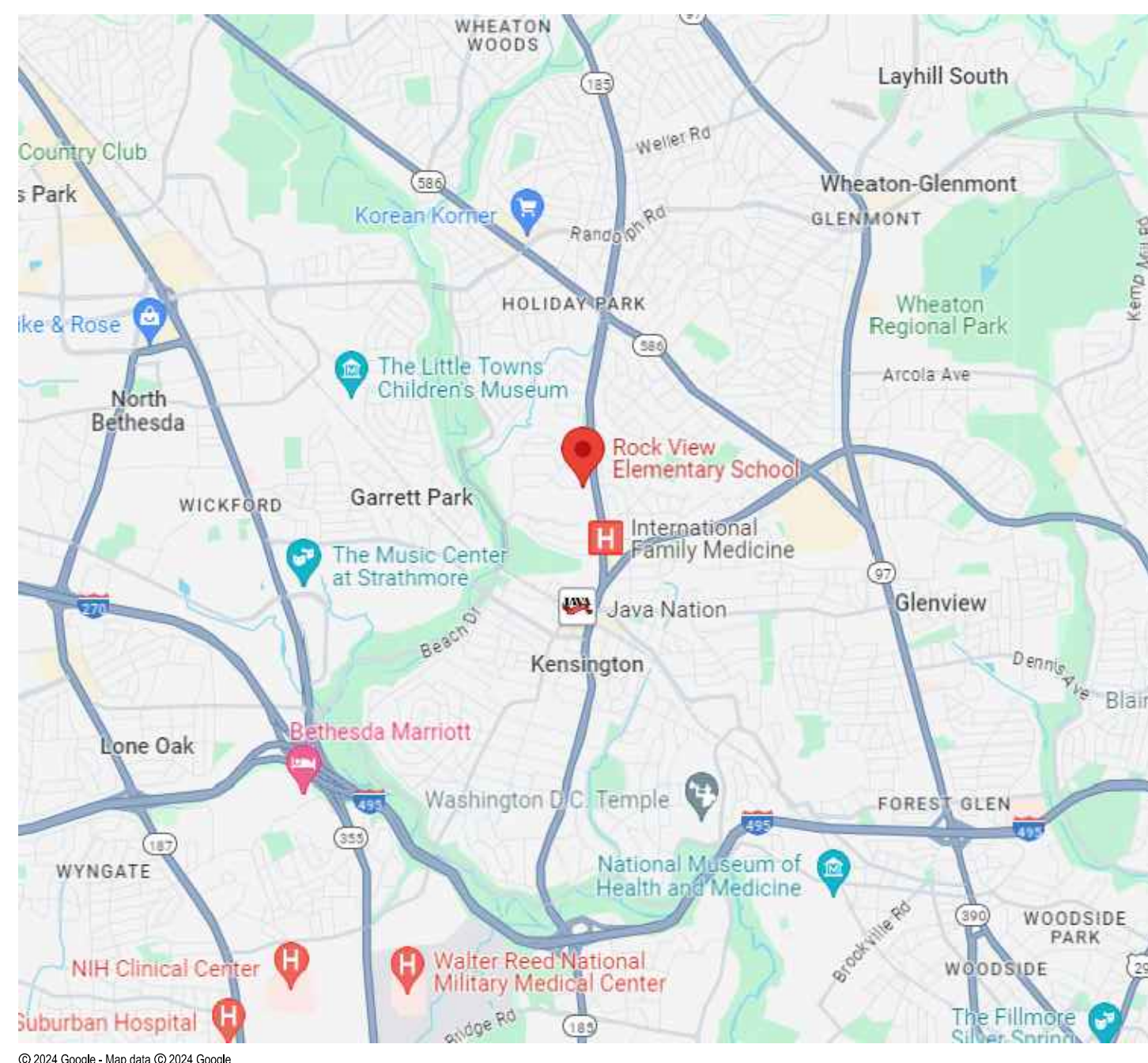
## Montgomery County Public Schools

MECHANICAL AND ELECTRICAL ENGINEERS

JAMES POSEY ASSOCIATES, INC.  
11155 RED RUN BOULEVARD, SUITE 310  
BALTIMORE, MARYLAND 21117  
PHONE: 410.265.6100

GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT  
**ROCK VIEW ELEMENTARY SCHOOL**  
 3901 DENFELD AVENUE  
 KENSINGTON, MD 20895  
 MONTGOMERY COUNTY PUBLIC SCHOOLS

### VICINITY PLAN



### AERIAL SITE PLAN

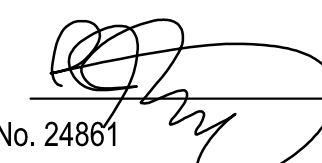


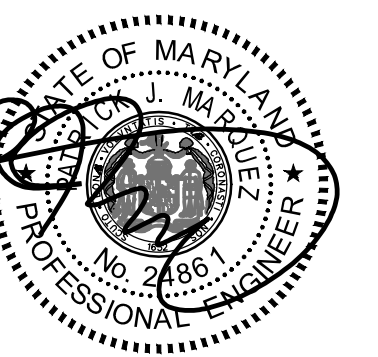
### DRAWING INDEX

- T-1 TITLE SHEET
- MECHANICAL**
  - M-1 DIAGRAMS, SYMBOLS AND ABBREVIATIONS
  - M-2 PART FIRST FLOOR PLAN - AREA A - DEMOLITION AND NEW WORK
- ELECTRICAL**
  - E-1 SYMBOLS LIST, ABBREVIATIONS, DETAILS AND DIAGRAMS
  - E-2 PART FIRST FLOOR PLAN - AREA A - DEMOLITION
  - E-3 PART FIRST FLOOR PLAN - AREA B - DEMOLITION
  - E-4 PART FIRST FLOOR PLAN - AREA C - DEMOLITION
  - E-5 PART FIRST FLOOR PLAN - AREA D - DEMOLITION
  - E-6 PART SECOND FLOOR PLAN - DEMOLITION
  - E-7 PART FIRST FLOOR PLAN - AREA A - NEW WORK
  - E-8 PART FIRST FLOOR PLAN - AREA B - NEW WORK
  - E-9 PART FIRST FLOOR PLAN - AREA C - NEW WORK
  - E-10 PART FIRST FLOOR PLAN - AREA D - NEW WORK
  - E-11 PART SECOND FLOOR PLAN - NEW WORK
  - E-12 POWER RISER DIAGRAMS
  - E-13 SCHEDULES

### PROFESSIONAL CERTIFICATION

These contract documents for Rock View Elementary School were prepared under my supervision and to the best of my knowledge, information, and belief, they comply with the relevant building codes of the State of Maryland.

09/25/24 (Date)   
 Maryland Professional Engineer Registration No. 24861



Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland. License No. 24861, Expiration date 02-24-2026.



Mechanical & Electrical Consulting Engineers  
 11155 Red Run Boulevard, Suite 310  
 Baltimore, Maryland 21117  
 tel 410-265-6100  
 jamesposey.com

### APPLICABLE CODES & STANDARDS

- 2018 IBC: INTERNATIONAL BUILDING CODE
- 2018 IMC: INTERNATIONAL MECHANICAL CODE
- 2018 IPC: INTERNATIONAL PLUMBING CODE WITH WSSC AMENDMENTS
- ASHRAE 90.1: ENERGY STANDARD FOR BUILDINGS EXCEPT LOW RISE RESIDENTIAL BUILDINGS.
- NEC 2017: NATIONAL ELECTRICAL CODE
- ASHRAE 2017-2020 HANDBOOKS.

### SCOPE OF WORK

SCOPE OF WORK GENERALLY CONSISTS OF THE FOLLOWING OVER TWO PHASES. PHASE 1 SHALL CONSIST OF THE FOLLOWING:

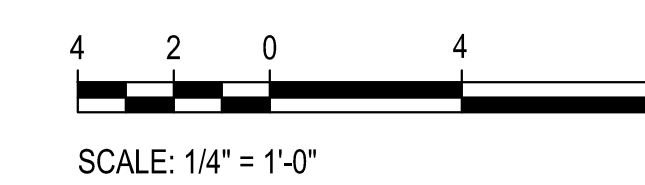
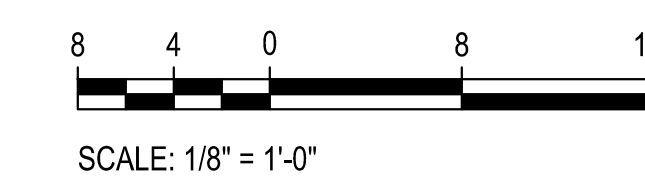
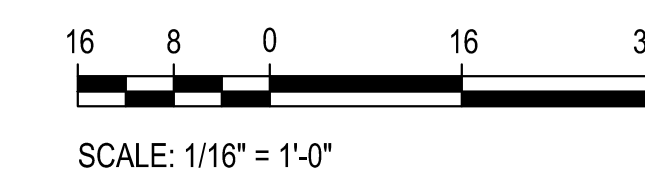
- PROVIDE CONDUITS AND RACEWAYS FOR NEW GENERATOR.
- PROVIDE CONDUITS AND RACEWAYS FOR NEW DEVICES AND CONNECTIONS TO EXISTING EQUIPMENT. FINAL CONNECTIONS TO NEW DEVICES AND EXISTING EQUIPMENT SHALL BE PERFORMED DURING THE SECOND SUMMER.
- PROVIDE NEW CONCRETE PAD FOR NEW GENERATOR.
- CONNECT LIGHTING FIXTURES IN TOILET ROOMS ON NORMAL CIRCUITS TO EXISTING EMERGENCY LIGHTING CIRCUITS, WHERE INDICATED ON DRAWINGS.

PROJECT SCOPE SHALL INCLUDE THE WORK FOR PHASE 2:

- PROVIDE NEW GENERATOR AND ASSOCIATED EQUIPMENT.
- CONNECT EXISTING BOILERS AND ASSOCIATED PUMPS TO THE NEW STANDBY PANELBOARD.
- CONNECT EXISTING KITCHEN REFRIGERATION EQUIPMENT TO NEW STANDBY PANELBOARD.
- CONNECT EXISTING MAIN TELECOM ROOM RECEPTACLES TO THE NEW STANDBY PANELBOARD.
- CONNECT NORMAL LIGHTING FIXTURES IN THE MAIN MECHANICAL ROOM/BOILER ROOM AND MAIN ELECTRICAL ROOM TO THE NEW EMERGENCY PANELBOARD.
- CONNECT LIGHTING FIXTURES IN TOILET ROOMS ON NORMAL CIRCUITS TO THE NEW EMERGENCY PANELBOARD, WHERE INDICATED ON DRAWINGS.

THE SCOPE OF WORK INDICATED ON THIS SHEET IS INTENDED AS A BRIEF SUMMARY FOR GENERAL INFORMATIONAL PURPOSES ONLY, AND DOES NOT NECESSARILY INCLUDE ALL OF THE WORK REQUIRED. THE CONTRACTOR SHALL PROVIDE MATERIALS AND LABOR AS REQUIRED TO COMPLETE THE WORK AS INDICATED IN THE CONTRACT DOCUMENTS.

### GRAPHIC SCALES



CAUTION: EXCEPT WHERE DIMENSIONS ARE INDICATED, GRAPHIC SCALE MUST BE USED.

### BOARD OF EDUCATION

DR. THOMAS W. TAYLOR	SUPERINTENDENT
MS. SHIHO C. SHIBASAKI	ASSISTANT DIRECTOR, OFFICE OF FACILITIES MANAGEMENT
MS. KARLA SILVESTRE	PRESIDENT / AT-LARGE
MS. LYNNE HARRIS	VICE PRESIDENT / AT-LARGE
MS. BRENDA WOLFF	DISTRICT 5
MS. GRACE RIVERA-OVEN	DISTRICT 1
MRS. SHEBRA L. EVANS	DISTRICT 4
MS. JULIE YANG	DISTRICT 3
MRS. REBECCA SMONDROWSKI	DISTRICT 2
MR. PRANEEL SUVARNA	STUDENT MEMBER

### CODE ANALYSIS

CODE ANALYSIS (FROM INTERNATIONAL BUILDING CODE/2018)		
	EXISTING BLDG	PROPOSED ALTERATION
IBC OCCUPANCY CLASSIFICATION	E	THE SCOPE OF THIS WORK IS TO REPLACE EXISTING GENERATOR AND REVISE NORMAL LIGHTING CIRCUITS IN TOILET ROOMS, BOILER ROOM AND ELEC ROOM TO EMERGENCY LIGHTING. THERE IS NO INCREASE IN FLOOR AREA, NO SITE CHANGES, NO CHANGE IN CLASSIFICATION OR TYPE OF CONSTRUCTION.
TYPE OF CONSTRUCTION	IIB	
NUMBER OF STORIES ABOVE GRADE	1	
HIGH RISE (Y/N)	N	
FIRE ALARM (Y/N)	Y	
FULLY SPRINKLERED (Y/N)	Y	
TOTAL BUILDING FLOOR AREA	91,977 SF	

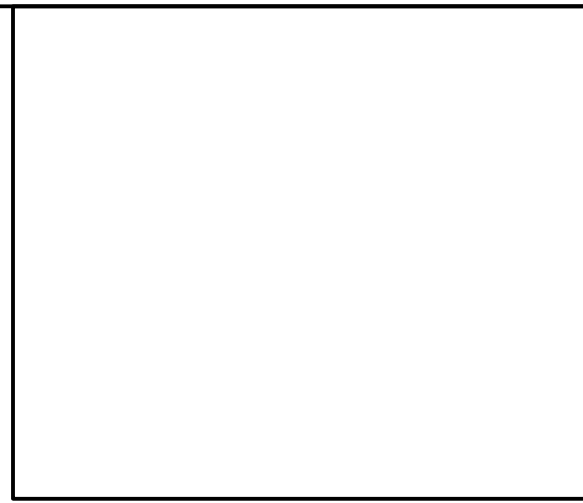
Tag	Description	Date
	BID SET	09/25/24

PSC No.	
Scale	AS NOTED
Project No.	7910-23
Date	SEPTEMBER 25, 2024

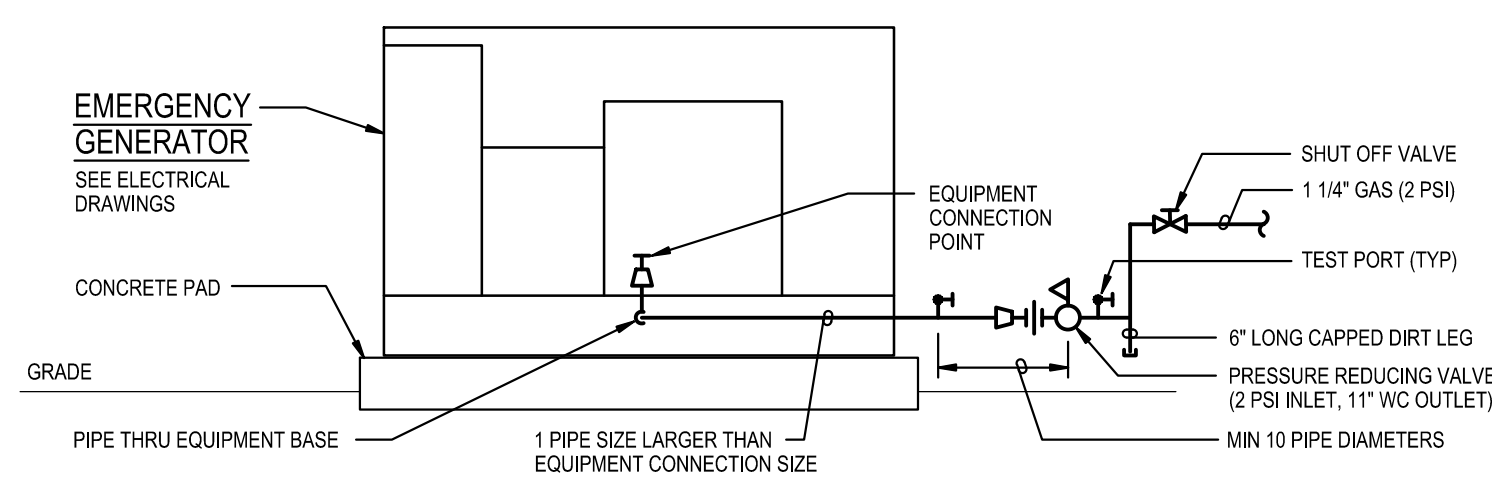
### TITLE SHEET

Sheet No:  
**T-1**

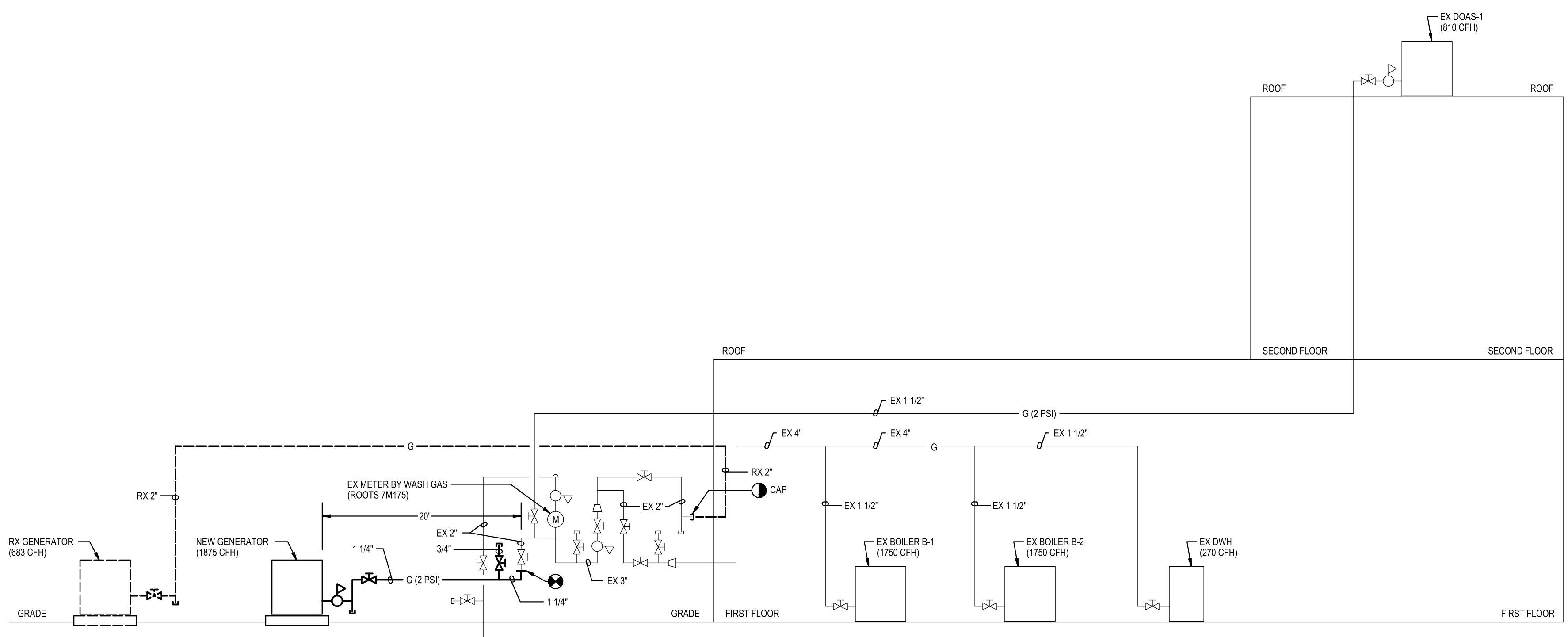




MECHANICAL SYMBOLS AND ABBREVIATIONS			
— G —	LOW PRESSURE GAS PIPE	∅	INDICATES DIAMETER
— G (2 PSI) —	MEDIUM PRESSURE GAS PIPE	A/D	ACCESS DOOR
— —	PIPE CAP OR PLUG	AAV	AUTOMATIC AIR VENT
— — —	UNION	ABV	ABOVE
— — — —	SHUT-OFF VALVE	AFF	ABOVE FINISHED FLOOR
— — — — —	SOLENOID VALVE	BLDG	BUILDING
— — — — — —	PRESSURE REDUCING / REGULATING VALVE	BLW	BELOW
(M)	METER	BTUH	BRITISH THERMAL UNITS PER HOUR
— — — — — — —	GAUGE COCK / TEST PORT	CFH	CUBIC FEET PER HOUR
— — — — — — — —	ECCENTRIC REDUCER	CFM	CUBIC FEET PER MINUTE
— — — — — — — — —	STRAINER	CLG	CEILING
●	POINT OF CONNECTION, NEW TO EXISTING	CONC	CONCRETE
○	DEMOLITION WORK TERMINATION POINT	CW	DOMESTIC COLD WATER PIPE
①	SYMBOL FOR SPECIFIC NOTE, NOTE APPLIES TO DRAWING ON WHICH IT OCCURS.	DIA	DIAMETER
③ M1	DETAIL OR DIAGRAM NO. 3 SHOWN ON DRAWING M1	EA	EXHAUST AIR
		ETR	EXISTING TO REMAIN
		EX	EXISTING
		EXH	EXHAUST
		FL	FLOOR
		FT	FEET
		G	GAS PIPE
		GALV	GALVANIZED
		IN	INCH, INCHES
		MAX	MAXIMUM
		MBH	THOUSAND BTU'S PER HOUR
		MCPS	MONTGOMERY COUNTY PUBLIC SCHOOLS
		MECH	MECHANICAL
		MFR	MANUFACTURER
		MIN	MINIMUM
		NC	NORMALLY CLOSED
		NIC	NOT IN CONTRACT
		NO	NORMALLY OPEN
		OA	OUTDOOR AIR
		PSI	POUNDS PER SQUARE INCH
		RX	REMOVE EXISTING
		TYP	TYPICAL
		UON	UNLESS OTHERWISE NOTED



**DIAGRAM 1 M-1**  
EQUIPMENT CONNECTION  
NOT TO SCALE



WASHINGTON GAS SERVICE ASSEMBLY  
EX FLOW: 5,263 CFH AT 2 PSI  
NEW FLOW: 6,455 CFH AT 2 PSI

ABOVE GROUND PIPE: SCHEDULE 40 STEEL PIPE  
BELOW GROUND PIPE: POLYETHYLENE PIPE  
PIPE AND VENT REGULATORS PER IFGC 2018  
408, 410.2 AND 410.3

**DIAGRAM 2 M-1**  
GAS RISER  
NOT TO SCALE

GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT  
**ROCK VIEW ELEMENTARY SCHOOL**  
 3901 DENFELD AVENUE  
 KENSINGTON, MD 20895  
 MONTGOMERY COUNTY PUBLIC SCHOOLS



Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland, License No. 33986, Expiration date 01-16-2025.



Mechanical & Electrical  
Consulting Engineers  
11155 Red Run Boulevard, Suite 310  
Baltimore, Maryland 21117  
tel 410-265-6100  
jamesposey.com

Tag	Description	Date
	BID SET	09/25/24

PSC No	
Scale	AS NOTED
Project No	7910-23
Date	SEPTEMBER 25, 2024

Drawing Title  
**DIAGRAMS, SYMBOLS AND ABBREVIATIONS**

Sheet No:  
**M-1**

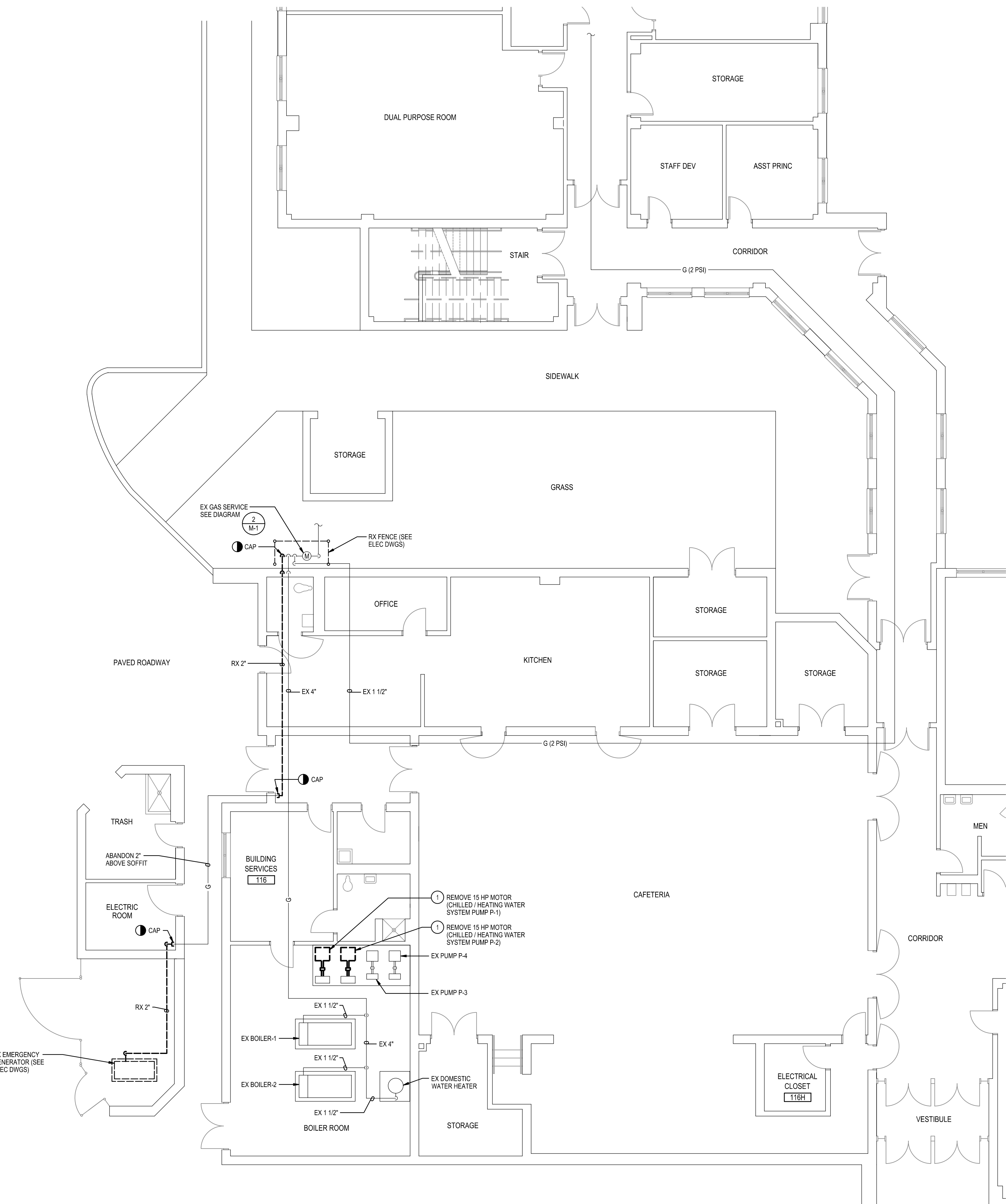
GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT  
**ROCK VIEW ELEMENTARY SCHOOL**  
 3901 DENFELD AVENUE  
 KENSINGTON, MD 20895  
 MONTGOMERY COUNTY PUBLIC SCHOOLS

**GENERAL NOTES:**

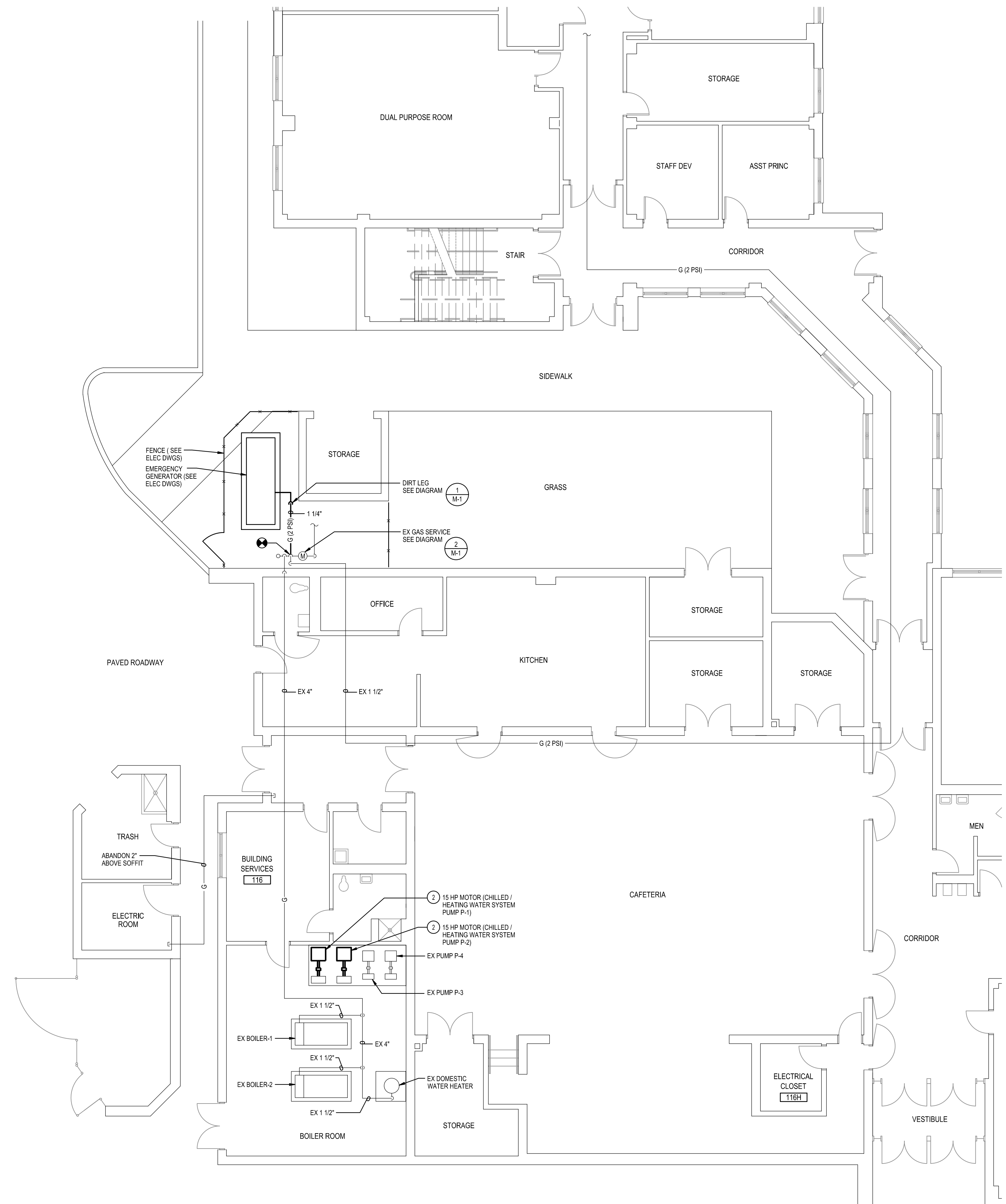
- A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AVOID PROCEEDING WITH THE WORK.
- B. DEMOLITION SHALL INCLUDE REMOVAL AND OFF-SITE DISPOSAL OF MATERIALS. DO NOT ABANDON IN PLACE ANY MECHANICAL AND RELATED ELECTRICAL COMPONENTS UNLESS OTHERWISE NOTED ON DRAWINGS.
- C. UNLESS OTHERWISE NOTED, MECHANICAL/PLUMBING ITEMS SHOWN HEAVY DASHED (---) SHALL BE REMOVED. ITEMS SHOWN HEAVY SOLID SHALL BE NEW. (---) AND ITEMS SHOWN LIGHT (---) SHALL REMAIN.
- D. NEW GENERATOR AND GAS PIPING TO BE INSTALLED BEFORE EXISTING IS REMOVED. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL PHASING INFORMATION.

**SPECIFIC NOTES:**

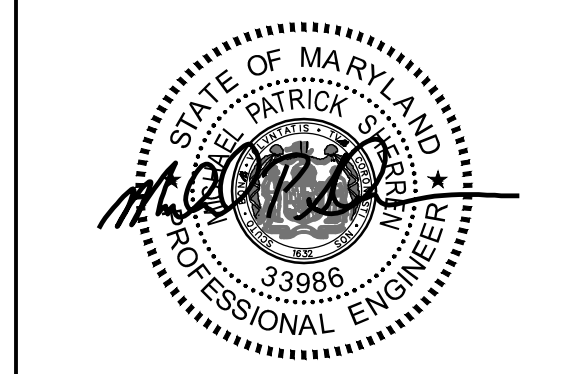
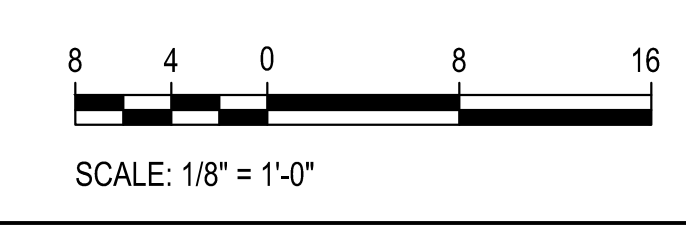
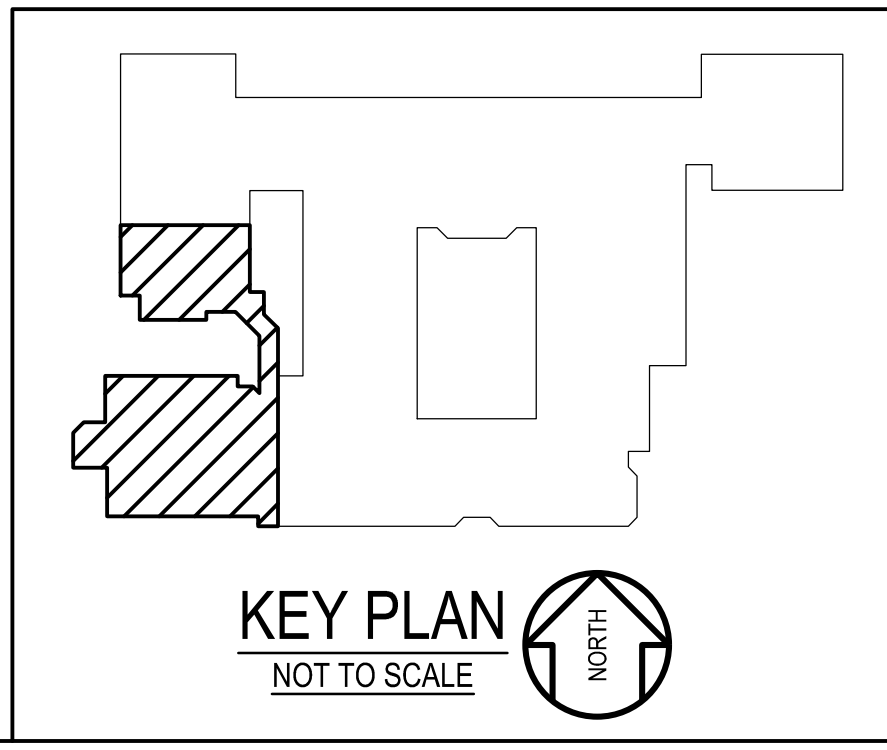
- 1 DETERMINE AND DOCUMENT EXISTING PUMP GPM FLOW AND SYSTEM PRESSURE PRIOR TO DEMOLITION.
- 2 BALANCE PUMP TO GPM FLOW RECORDED PRIOR TO REPLACEMENT OF MOTOR. FULLY OPEN ANY EXISTING BALANCING VALVES AT PUMP AND USE VFD TO RE-ESTABLISH PREVIOUS FLOW RATE.



1 PART FIRST FLOOR PLAN - AREA A  
 M-2 DEMOLITION  
 SCALE: 1/8" = 1'-0"



2 PART FIRST FLOOR PLAN - AREA A  
 M-2 NEW WORK  
 SCALE: 1/8" = 1'-0"



Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland, License No. 33986, Expiration date 01-16-2025.

**James Posey Associates**  
 Engineering Your Vision

Mechanical & Electrical Consulting Engineers  
 11155 Red Run Boulevard, Suite 310  
 Baltimore, Maryland 21117  
 tel 410-265-6100  
 jamesposey.com

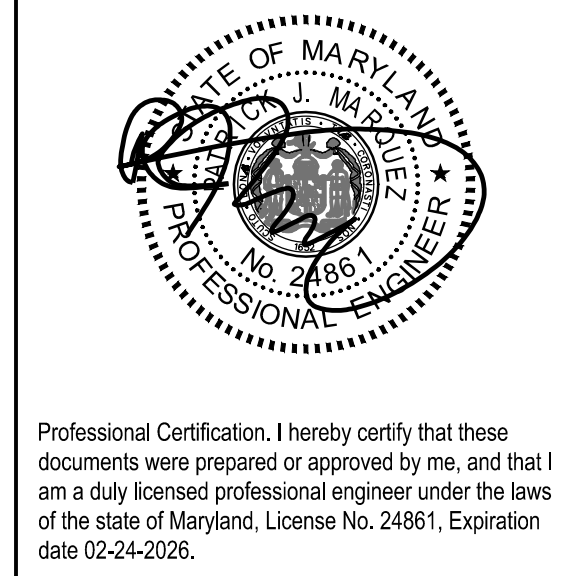
Tag	Description	Date
	BID SET	09/25/24

PSC No.	
Scale	AS NOTED
Project No.	7910-23
Date	SEPTEMBER 25, 2024

Drawing Title  
**PART FIRST FLOOR PLAN  
 AREA A - DEMOLITION  
 AND NEW WORK**

Sheet No:  
**M-2**





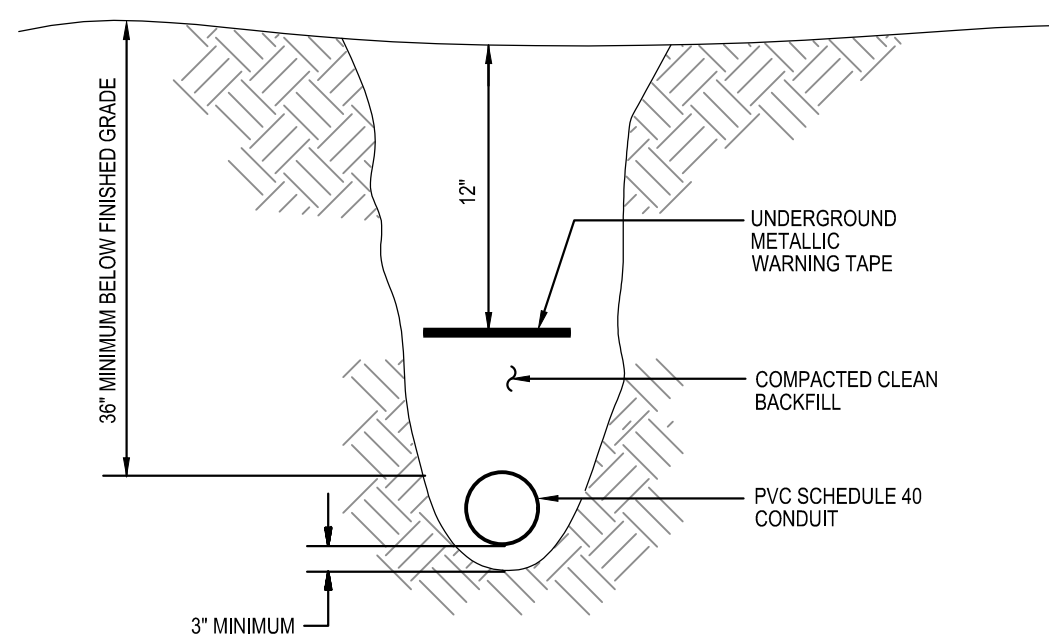
Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland. License No. 24861, Expiration date 02-24-2026.

**James Posey Associates**  
 Engineering Your Vision  
 Mechanical & Electrical Consulting Engineers  
 11155 Red Run Boulevard, Suite 310  
 Baltimore, Maryland 21117  
 tel 410-265-6100  
 jamesposey.com

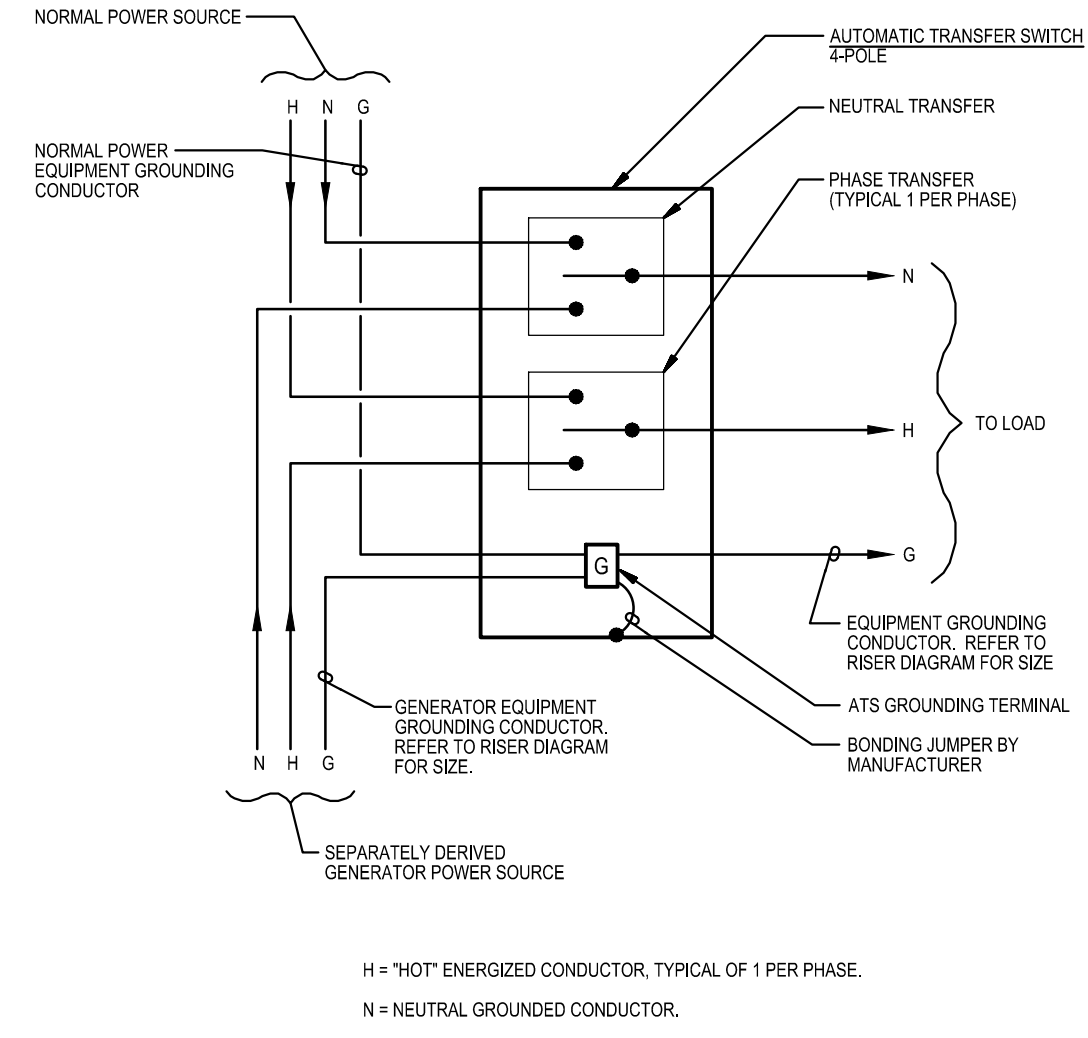
Tag	Description	Date
	BID SET	09/25/24
PSC No		
Scale	AS NOTED	
Project No	7910-23	
Date	SEPTEMBER 25, 2024	
Drawing Title	SYMBOLS LIST, ABBREVIATIONS, DETAILS AND DIAGRAMS	
Sheet No:	<b>E-1</b>	

## ELECTRICAL SYMBOLS AND ABBREVIATIONS

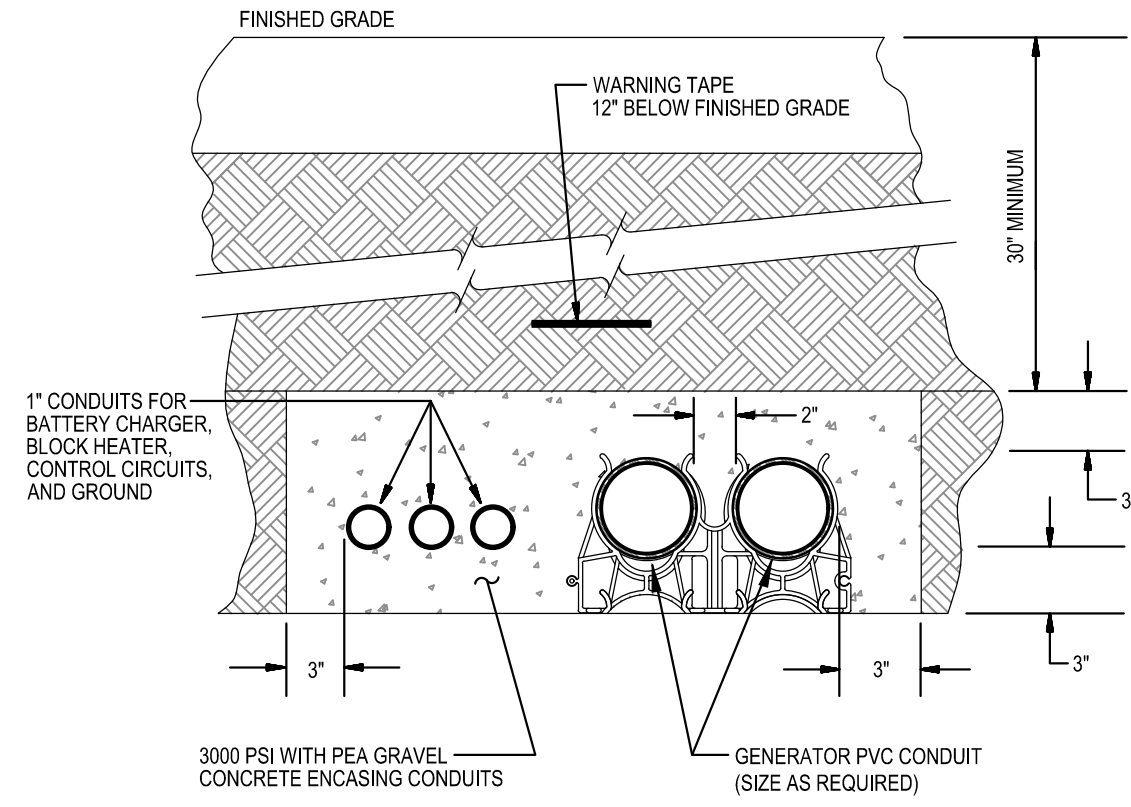
GENERAL	POWER																																																									
<p>⊙ DENOTES REFERENCE TO SPECIFIC NOTE ON DRAWING.</p> <p>ⓔ-# DETAIL, DIAGRAM OR PLAN NUMBER</p> <p>#/E-# DRAWING NUMBER WHERE DETAIL, DIAGRAM OR PLAN IS LOCATED.</p> <p>#/E-# DETAIL, DIAGRAM OR PLAN REFERENCE: DETAIL, DIAGRAM OR PLAN NUMBER/DRAWING NUMBER</p> <p><b>NOTES:</b></p> <p>A. PROVIDE DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT.</p> <p>B. THE EXISTING FACILITY WILL REMAIN IN OPERATION DURING RENOVATION. INTERRUPTION TO THE EXISTING BUILDING ELECTRIC SERVICE SHALL BE COORDINATED WITH THE USER TO MINIMIZE DISRUPTION. INTERRUPTION OF UTILITIES SHALL NOT OCCUR DURING SCHOOL WORK HOURS.</p>	<p>⎓ HOMERUN TO PANELBOARD. NUMBER OF HASH MARKS INDICATES NUMBER OF WIRES PLUS GROUND WIRE. REFER TO PANEL SCHEDULES FOR CONDUCTOR SIZES. PROVIDE GROUND WIRES IN CONDUITS.</p> <p>⎓ HOMERUN TO PANELBOARD, RUN BELOW GRADE. REFER TO PANEL SCHEDULES FOR CONDUCTOR SIZES. PROVIDE GROUND WIRES IN CONDUITS.</p> <p>EM WIRING IN CONDUIT RUN CONCEALED IN CEILING SPACE ABOVE CEILINGS AND EXPOSED IN OPEN CEILINGS, UNLESS OTHERWISE NOTED. WIRING IN CONDUIT DESIGNATED WITH "EM" DENOTE EMERGENCY LIGHTING CIRCUIT. PROVIDE GROUND WIRES IN CONDUITS.</p> <p>→ WIRING IN CONDUIT CONTINUED.</p> <p>⊙ JUNCTION BOX WITH BLANK COVER PLATE.</p> <p>⎓ ELECTRIC PANELBOARD (120/208V), SURFACE MOUNTED.</p> <p>⎓ EQUIPMENT CABINET AS NOTED.</p> <p>VFD VARIABLE FREQUENCY DRIVE.</p> <p>CB ENCLOSED CIRCUIT BREAKER.</p> <p>⎓ ENCLOSED SWITCH (DISCONNECT/SAFETY SWITCH) IN NEMA TYPE 1 ENCLOSURE, UNLESS OTHERWISE NOTED. MOUNT 5'-6" ABOVE FLOOR TO TOP OF ENCLOSURE, UNLESS OTHERWISE NOTED. RATING AND FUSING AS INDICATED.</p> <p>⊕ MOTOR CONNECTION.</p> <p>⊕ HARD-WIRED ELECTRICAL CONNECTION. CONNECT TO EQUIPMENT AS NOTED.</p> <p>SPD SURGE PROTECTIVE DEVICE IN NEMA TYPE 1 ENCLOSURE, UNLESS OTHERWISE NOTED.</p> <p>⎓ DUPLEX RECEPTACLE (NEMA 5-20R), TAMPER-RESISTANT, ON GENERATOR STANDBY POWER CIRCUIT, SURFACE WALL-MOUNTED 16" ABOVE FLOOR TO BOTTOM OF BOX.</p> <p>⎓ DUPLEX RECEPTACLE (NEMA 5-20R), GFCI-TYPE, WEATHER-RESISTANT-TYPE, WITH WHILE-IN-USE WEATHERPROOF COVER ON GENERATOR STANDBY POWER CIRCUIT, SURFACE WALL-MOUNTED 16" ABOVE FLOOR TO BOTTOM OF BOX.</p> <p>⎓ DOUBLE-DUPLEX (QUADRUPLX) RECEPTACLE (NEMA 5-20R) ON GENERATOR STANDBY POWER CIRCUIT, TAMPER-RESISTANT. MOUNTING AS INDICATED ON FLOOR PLANS.</p>																																																									
DEMOLITION	FIRE DETECTION AND ALARM																																																									
<p>⎓ DISCONNECT AND REMOVE EXISTING WIRING IN CONDUIT, UNLESS OTHERWISE NOTED.</p> <p>⎓ DISCONNECT AND REMOVE EXISTING HOMERUN WIRING IN CONDUIT BACK TO SOURCE.</p> <p>⎓ DISCONNECT AND REMOVE EXISTING PANELBOARD OR CABINET AS INDICATED.</p> <p>⊕ DISCONNECT EXISTING EQUIPMENT CONNECTION.</p> <p>⊕ DISCONNECT EXISTING MOTOR CONNECTION.</p> <p>⎓ DISCONNECT AND REMOVE EXISTING MOTOR STARTER.</p> <p>⎓ DISCONNECT AND REMOVE EXISTING DUPLEX OR DOUBLE-DUPLEX (QUAD) RECEPTACLE.</p>	<p>⎓ MONITOR MODULES. PROVIDE FIRE ALARM WIRING IN CONDUIT AND CONNECT MONITOR MODULES TO EXISTING FIRE DETECTION AND ALARM SYSTEM FOR "GENERATOR RUN" AND "GENERATOR FAULT". MAKE CONNECTIONS NECESSARY FOR COMPLETE INSTALLATION. RE-PROGRAM FIRE ALARM CONTROL PANEL AS REQUIRED.</p>																																																									
EXISTING	ABBREVIATIONS																																																									
<p>⎓ EXISTING TO REMAIN CEILING OUTLET AND LIGHTING FIXTURE.</p> <p>⎓ EXISTING TO REMAIN CEILING OUTLET AND LIGHTING FIXTURE ON GENERATOR POWER CIRCUIT, OR PREVIOUSLY ON NORMAL POWER CIRCUIT AND CHANGED TO GENERATOR POWER CIRCUIT.</p> <p>S<sub>e</sub> S<sub>3W</sub> EXISTING TO REMAIN SINGLE POLE OR 3-WAY WALL MOUNTED SWITCH.</p> <p>S<sub>3W</sub> EXISTING TO REMAIN MANUAL MOTOR STARTER SWITCH.</p> <p>T EXISTING UTILITY TRANSFORMER TO REMAIN.</p> <p>⎓ EXISTING TO REMAIN 120/208V PANELBOARD, SURFACE OR RECESS MOUNTED.</p> <p>→ EXISTING TO REMAIN WIRING IN CONDUIT.</p> <p>→ EXISTING TO REMAIN WIRING IN CONDUIT CONTINUED.</p> <p>⊕ EXISTING TO REMAIN MOTOR CONNECTION.</p> <p>⊕ EXISTING EQUIPMENT CONNECTION TO BE RECONNECTED WHERE INDICATED.</p> <p>⎓ EXISTING TO REMAIN ENCLOSED SWITCH (DISCONNECT/SAFETY SWITCH).</p> <p>⎓ EXISTING TO REMAIN MOTOR STARTER.</p> <p>⎓ EXISTING TO REMAIN DUPLEX RECEPTACLE ON GENERATOR POWER.</p> <p>⎓ EXISTING TO REMAIN QUADRUPLX (DOUBLE-DUPLEX) RECEPTACLE ON GENERATOR POWER.</p> <p>⎓ EXISTING EMERGENCY OFF PUSHBUTTON STATION TO REMAIN.</p>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">A, AMP AMPERE(S)</td> <td style="width: 33%;">MIN MINIMUM</td> <td style="width: 33%;">MP. MULTI-PURPOSE ROOM</td> </tr> <tr> <td>AIC AMPERES INTERRUPTING CAPACITY</td> <td>N. NEUTRAL</td> <td>NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION</td> </tr> <tr> <td>ATS AUTOMATIC TRANSFER SWITCH</td> <td>P. POLE(S) OR PUMP</td> <td>PA PUBLIC ADDRESS</td> </tr> <tr> <td>C. CONDUIT</td> <td>PH PHASE</td> <td>PSI POUNDS PER SQUARE INCH</td> </tr> <tr> <td>CB CIRCUIT BREAKER</td> <td>REC RECEPTACLE</td> <td>PVC POLYVINYL CHLORIDE</td> </tr> <tr> <td>CT CURRENT TRANSFORMERS</td> <td>REFRIG REFRIGERATOR</td> <td>RM ROOM</td> </tr> <tr> <td>ELEC ELECTRICAL EXISTING</td> <td>RTU ROOFTOP UNIT</td> <td>RX REMOVE EXISTING</td> </tr> <tr> <td>EM EMERGENCY</td> <td>SPD SURGE PROTECTIVE DEVICE</td> <td>STOR STORAGE</td> </tr> <tr> <td>ETR EXISTING TO REMAIN</td> <td>V VOLT(S)</td> <td>VFD VARIABLE FREQUENCY DRIVE</td> </tr> <tr> <td>EX EXISTING</td> <td>W WIRE(S)</td> <td></td> </tr> <tr> <td>FAAP FIRE ALARM ANNUCIATOR PANEL</td> <td></td> <td></td> </tr> <tr> <td>FACP FIRE ALARM CONTROL PANEL</td> <td></td> <td></td> </tr> <tr> <td>G GROUND</td> <td></td> <td></td> </tr> <tr> <td>GFCI GROUND FAULT CIRCUIT INTERRUPTER</td> <td></td> <td></td> </tr> <tr> <td>H HOT</td> <td></td> <td></td> </tr> <tr> <td>HP HORSEPOWER</td> <td></td> <td></td> </tr> <tr> <td>KVA KILOVOLT-AMPERES</td> <td></td> <td></td> </tr> <tr> <td>LTG LIGHTING</td> <td></td> <td></td> </tr> <tr> <td>MCPS MONTGOMERY COUNTY PUBLIC SCHOOLS</td> <td></td> <td></td> </tr> </table>	A, AMP AMPERE(S)	MIN MINIMUM	MP. MULTI-PURPOSE ROOM	AIC AMPERES INTERRUPTING CAPACITY	N. NEUTRAL	NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION	ATS AUTOMATIC TRANSFER SWITCH	P. POLE(S) OR PUMP	PA PUBLIC ADDRESS	C. CONDUIT	PH PHASE	PSI POUNDS PER SQUARE INCH	CB CIRCUIT BREAKER	REC RECEPTACLE	PVC POLYVINYL CHLORIDE	CT CURRENT TRANSFORMERS	REFRIG REFRIGERATOR	RM ROOM	ELEC ELECTRICAL EXISTING	RTU ROOFTOP UNIT	RX REMOVE EXISTING	EM EMERGENCY	SPD SURGE PROTECTIVE DEVICE	STOR STORAGE	ETR EXISTING TO REMAIN	V VOLT(S)	VFD VARIABLE FREQUENCY DRIVE	EX EXISTING	W WIRE(S)		FAAP FIRE ALARM ANNUCIATOR PANEL			FACP FIRE ALARM CONTROL PANEL			G GROUND			GFCI GROUND FAULT CIRCUIT INTERRUPTER			H HOT			HP HORSEPOWER			KVA KILOVOLT-AMPERES			LTG LIGHTING			MCPS MONTGOMERY COUNTY PUBLIC SCHOOLS		
A, AMP AMPERE(S)	MIN MINIMUM	MP. MULTI-PURPOSE ROOM																																																								
AIC AMPERES INTERRUPTING CAPACITY	N. NEUTRAL	NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION																																																								
ATS AUTOMATIC TRANSFER SWITCH	P. POLE(S) OR PUMP	PA PUBLIC ADDRESS																																																								
C. CONDUIT	PH PHASE	PSI POUNDS PER SQUARE INCH																																																								
CB CIRCUIT BREAKER	REC RECEPTACLE	PVC POLYVINYL CHLORIDE																																																								
CT CURRENT TRANSFORMERS	REFRIG REFRIGERATOR	RM ROOM																																																								
ELEC ELECTRICAL EXISTING	RTU ROOFTOP UNIT	RX REMOVE EXISTING																																																								
EM EMERGENCY	SPD SURGE PROTECTIVE DEVICE	STOR STORAGE																																																								
ETR EXISTING TO REMAIN	V VOLT(S)	VFD VARIABLE FREQUENCY DRIVE																																																								
EX EXISTING	W WIRE(S)																																																									
FAAP FIRE ALARM ANNUCIATOR PANEL																																																										
FACP FIRE ALARM CONTROL PANEL																																																										
G GROUND																																																										
GFCI GROUND FAULT CIRCUIT INTERRUPTER																																																										
H HOT																																																										
HP HORSEPOWER																																																										
KVA KILOVOLT-AMPERES																																																										
LTG LIGHTING																																																										
MCPS MONTGOMERY COUNTY PUBLIC SCHOOLS																																																										



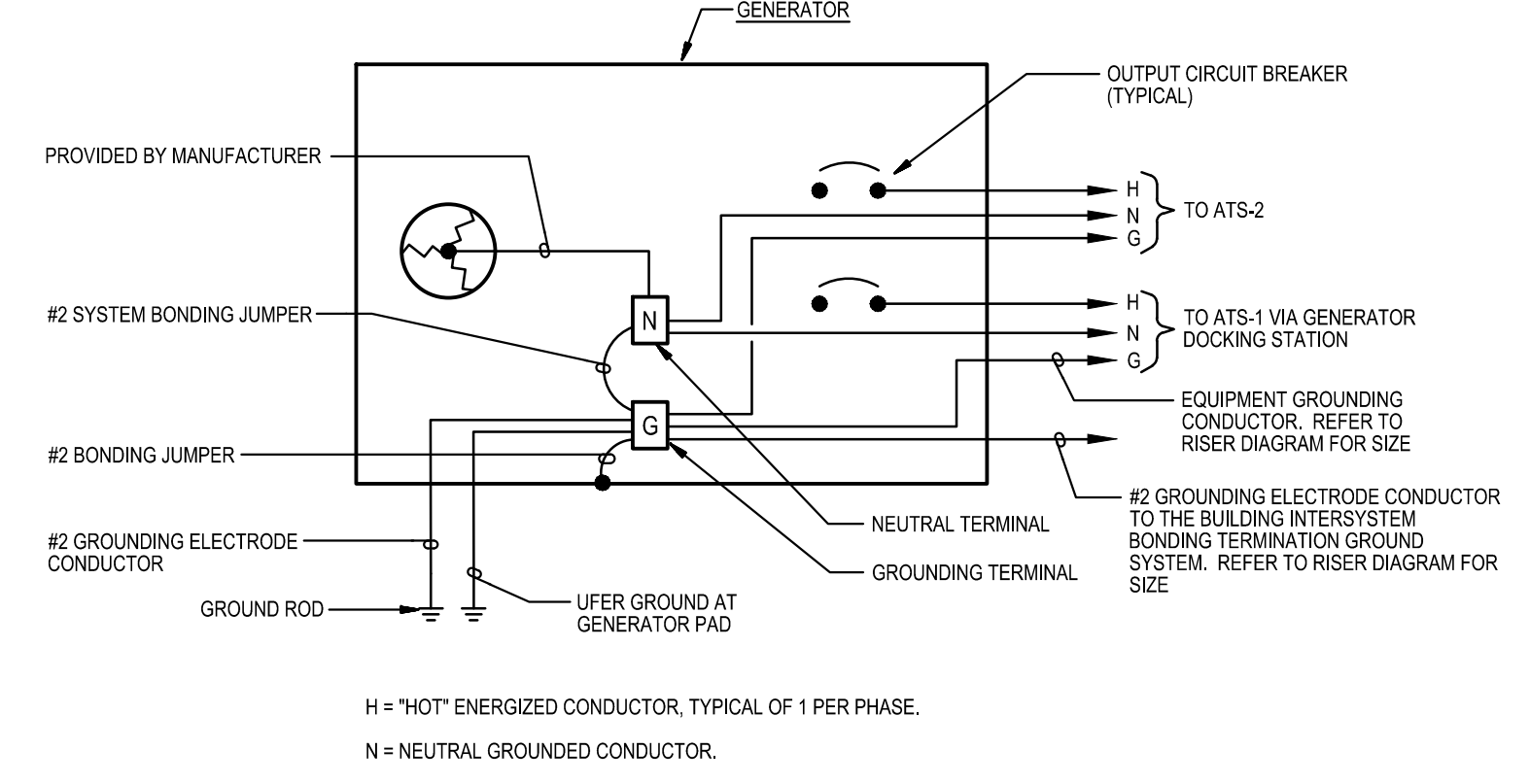
**8**  
E-1 **DETAIL**  
DIRECTLY-BURIED CONDUIT  
NOT TO SCALE



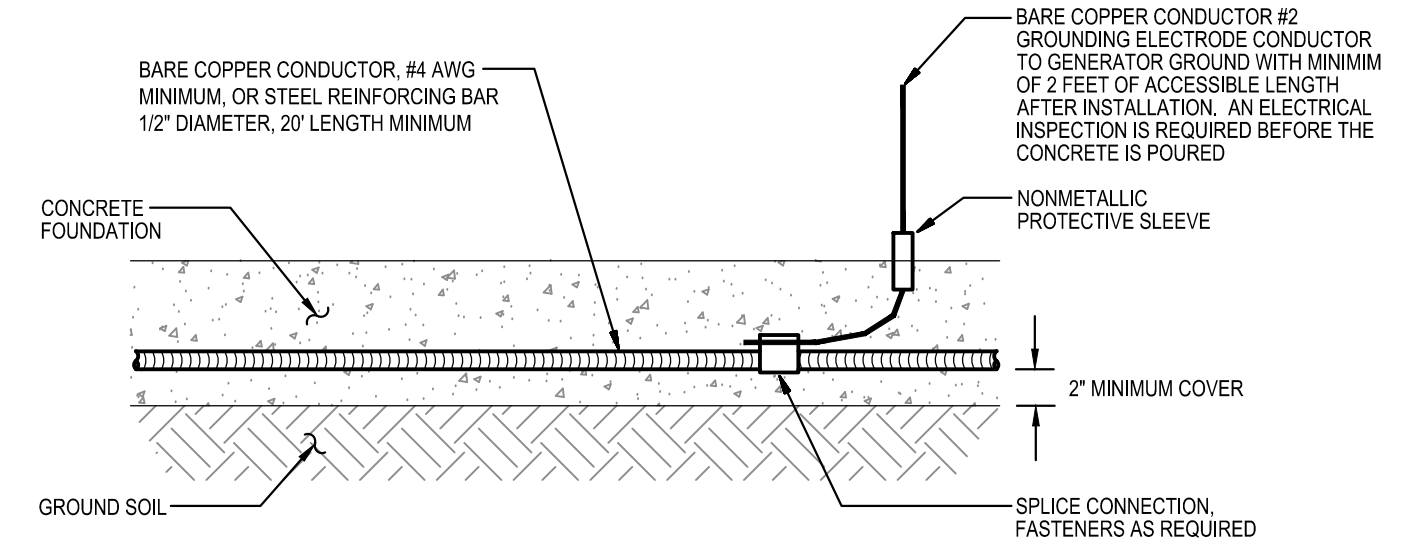
**4**  
E-1 **DIAGRAM**  
AUTOMATIC TRANSFER SWITCH GROUND WIRING  
NOT TO SCALE



**7**  
E-1 **DETAIL**  
GENERATOR DUCTBANK  
NOT TO SCALE



**3**  
E-1 **DIAGRAM**  
GENERATOR GROUNDING WIRING  
NOT TO SCALE



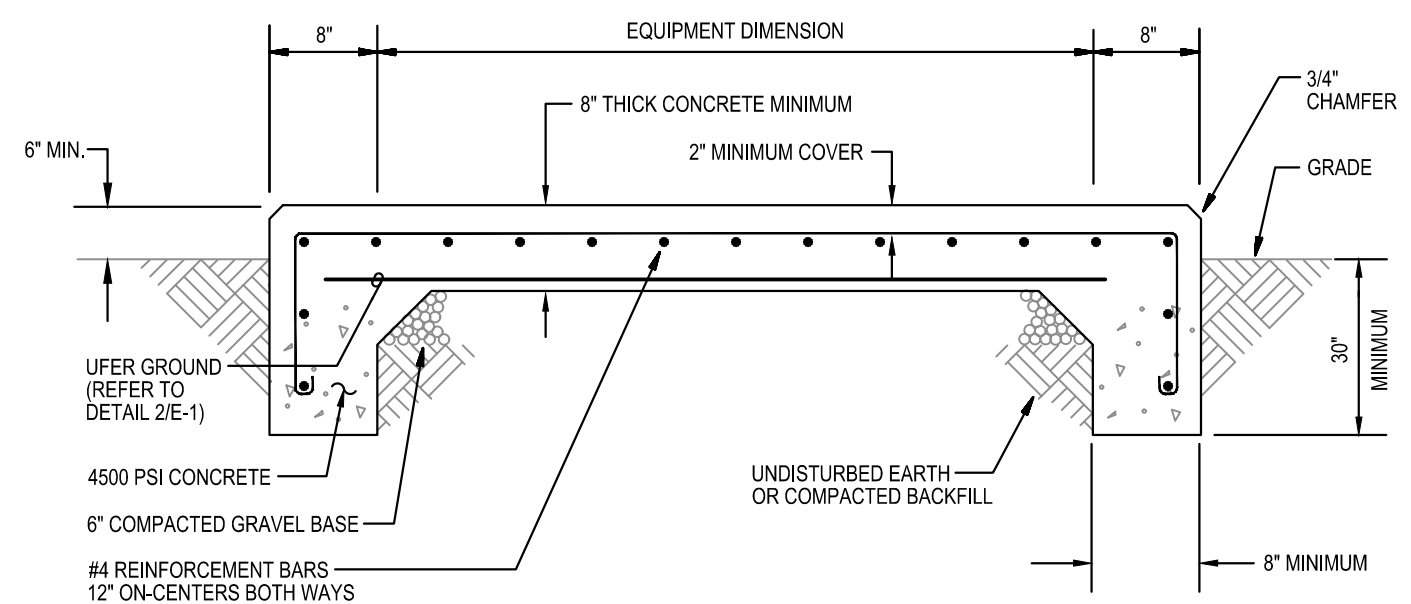
**2**  
E-1 **DETAIL**  
TYPICAL UFER GROUND  
NOT TO SCALE

**GENERATOR DOCKING STATION**

FOR CONNECTIONS TO A TEMPORARY PORTABLE GENERATOR

CONFIGURE TEMPORARY PORTABLE GENERATOR WITH GENERATOR NEUTRAL CONNECTED TO GENERATOR GROUND. GENERATOR SHALL BE A SEPARATELY DERIVED SYSTEM.

**6**  
E-1 **DETAIL**  
PLACARD AT GENERATOR DOCKING STATION  
NOT TO SCALE

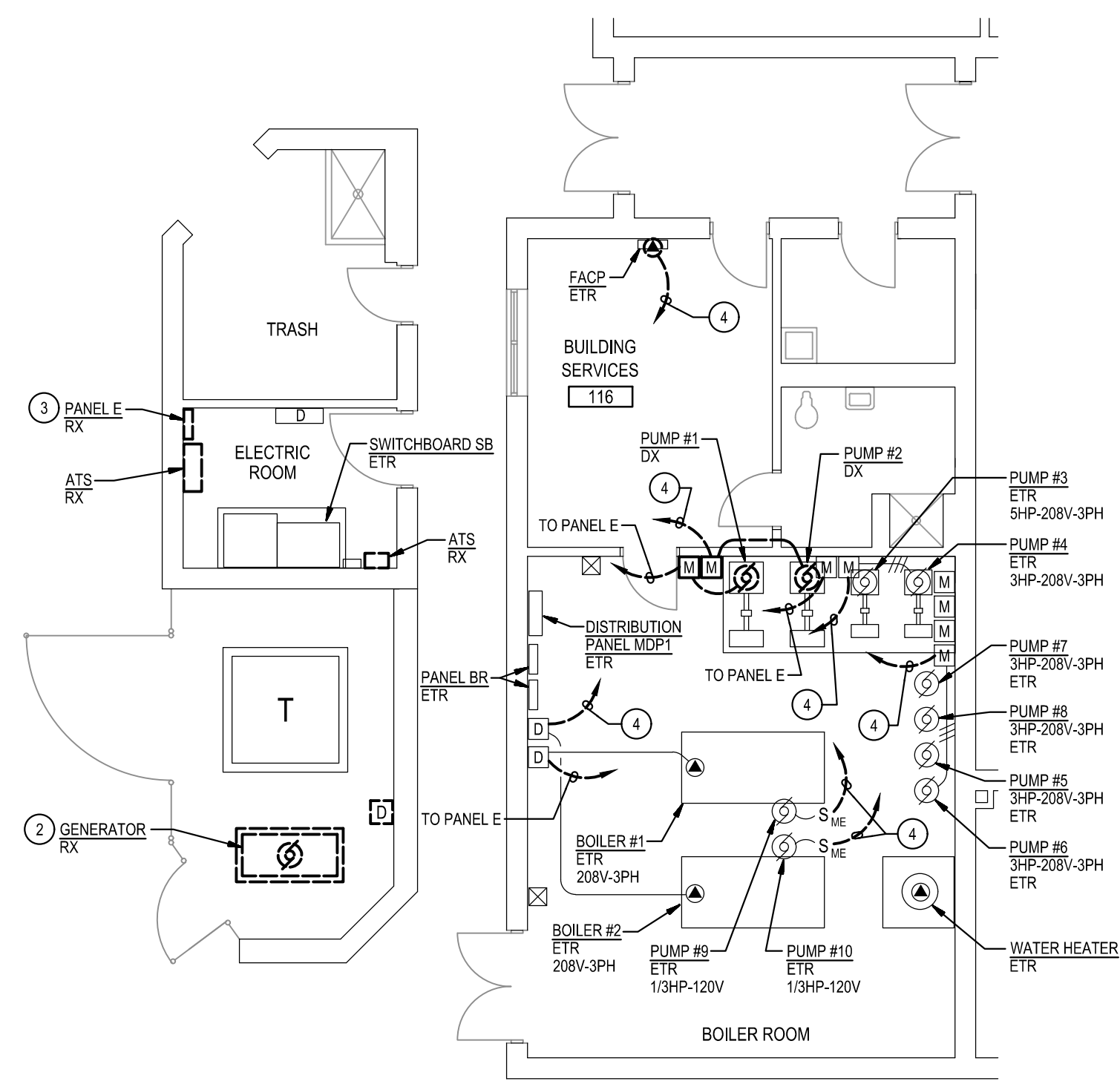


**1**  
E-1 **DETAIL**  
GENERATOR CONCRETE PAD  
NOT TO SCALE

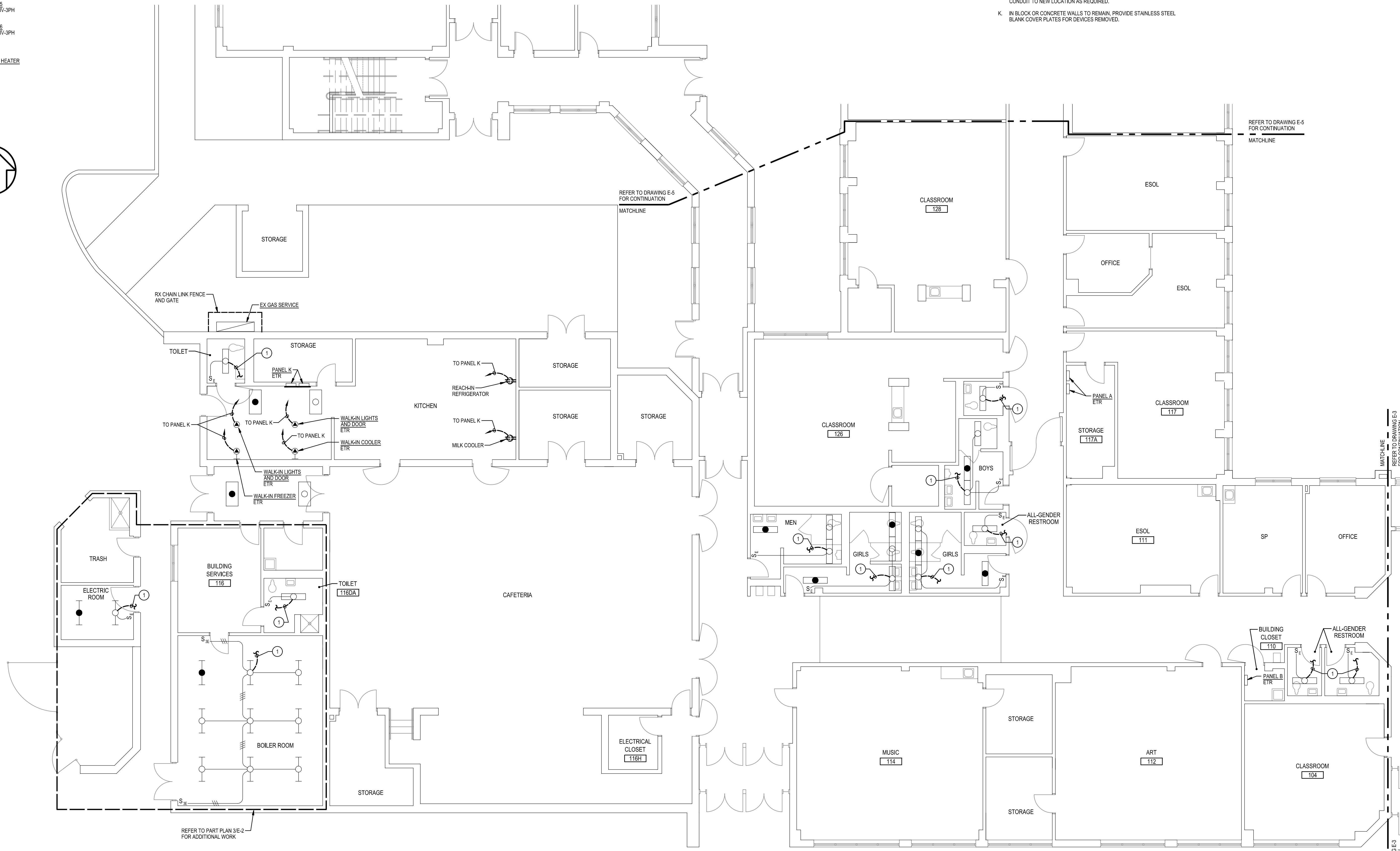
EMERGENCY AND STANDBY POWER  
150KW, 120/208 VOLTS, 3-PHASE, 4-WIRE  
NATURAL GAS GENERATOR  
LOCATED OUTDOORS  
NEXT TO LOADING DOCK AND  
KITCHEN

**5**  
E-1 **DETAIL**  
PLACARD AT MAIN SERVICE  
NOT TO SCALE

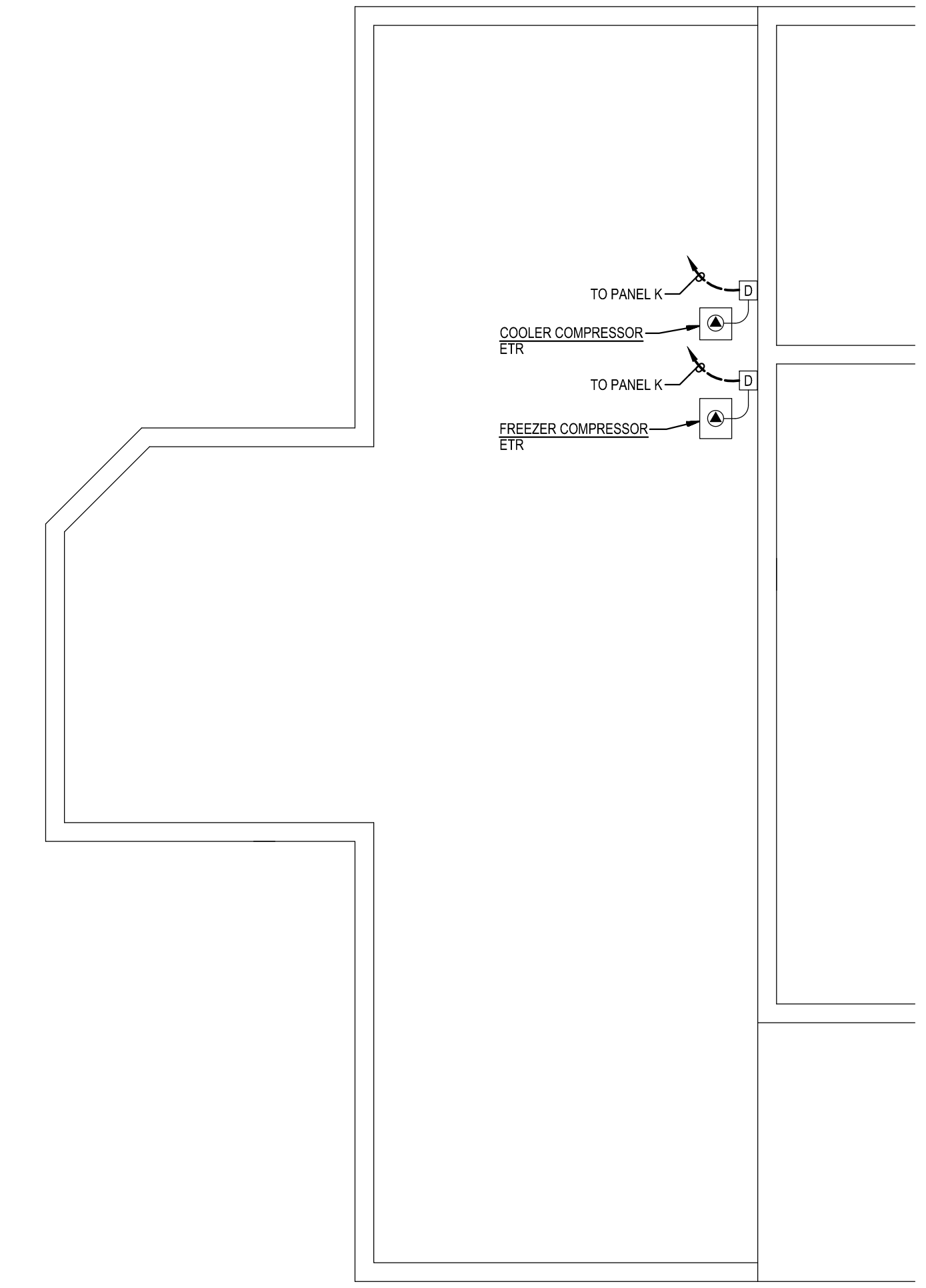




3  
E-2  
**PART FIRST FLOOR PLAN - AREA A**  
DEMOLITION  
SCALE: 1/8" = 1'-0"

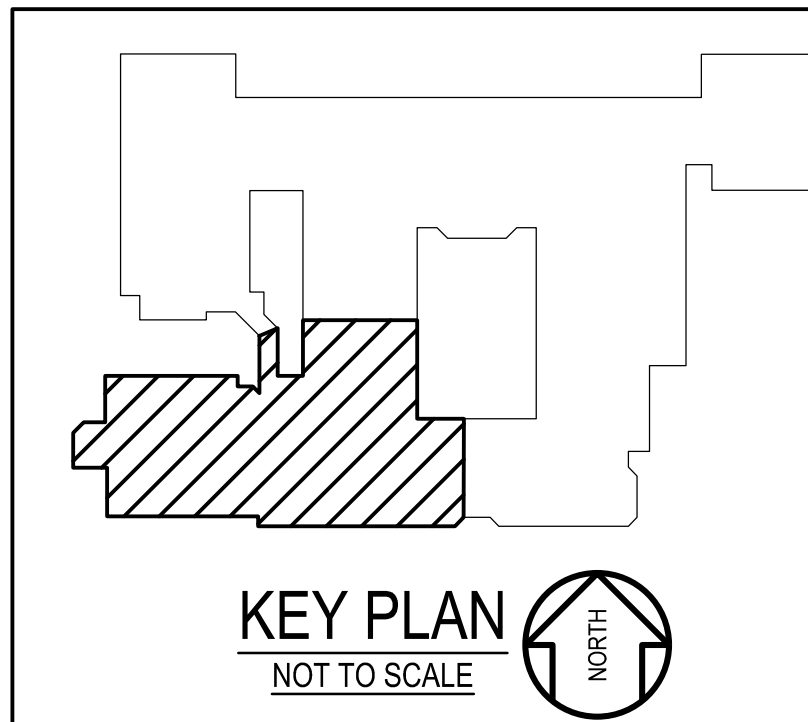
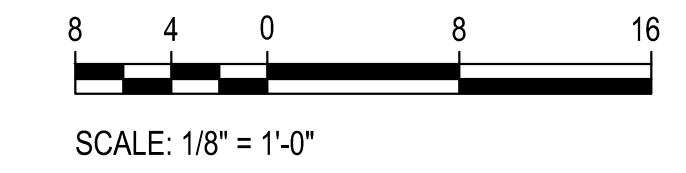


1  
E-2  
**PART FIRST FLOOR PLAN - AREA A**  
DEMOLITION  
SCALE: 1/8" = 1'-0"



2  
E-2  
**PART ROOF PLAN - AREA A**  
DEMOLITION  
SCALE: 1/8" = 1'-0"

- GENERAL NOTES:**
- INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PRESENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.
  - THE EXISTING FACILITY SHALL REMAIN IN OPERATION DURING RENOVATION. INTERRUPTION TO THE EXISTING BUILDING ELECTRIC SERVICE SHALL BE COORDINATED WITH THE OWNER TO MINIMIZE DISRUPTION. INTERRUPTION OF UTILITIES SHALL NOT OCCUR DURING SCHOOL WORKING HOURS.
  - REMOVE AND REINSTALL EXISTING CEILING TILES WITHIN CONSTRUCTION AREAS AS REQUIRED.
  - CONSTRUCTION SHALL BE PERFORMED IN PHASES. AVOID INTERRUPTION TO ANY SERVICES. GENERATOR POWER DISTRIBUTION SYSTEM SHALL BE OPERATIONAL AT ALL TIMES WHEN SCHOOL IS IN SESSION.
  - UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN HEAVY DASHED (---) SHALL BE REMOVED AND ELECTRICAL ITEMS SHOWN LIGHT SOLID (—) SHALL REMAIN.
  - DEMOLITION SHALL INCLUDE REMOVAL AND OFF-SITE DISPOSAL OF MATERIALS. DO NOT ABANDON IN PLACE ANY ELECTRICAL COMPONENTS UNLESS OTHERWISE NOTED ON DRAWINGS.
  - WHERE EQUIPMENT IS NOTED "DISCONNECT" OR "REMOVE", REMOVE ASSOCIATED WIRE AND CONDUIT BACK TO SOURCE UNLESS OTHERWISE NOTED.
  - REMOVE EXISTING EQUIPMENT AND DEVICES INDICATED, INCLUDING ASSOCIATED WIRE AND CONDUIT BACK TO SOURCE UNLESS OTHERWISE NOTED.
  - EXISTING CIRCUITS INTERRUPTED BY DEMOLITION, BUT ARE TO REMAIN, SHALL BE MADE CONTINUOUS.
  - WHERE DEVICES ARE TO BE REMOVED AND REINSTALLED, PROVIDE WIRE AND CONDUIT TO NEW LOCATION AS REQUIRED.
  - IN BLOCK OR CONCRETE WALLS TO REMAIN, PROVIDE STAINLESS STEEL BLANK COVER PLATES FOR DEVICES REMOVED.
- SPECIFIC NOTES:**
- DISCONNECT AND REMOVE EXISTING WIRING IN CONDUIT SERVING EXISTING LIGHTING FIXTURES.
  - DISCONNECT AND REMOVE EXISTING GENERATOR, INCLUDING HOUSEWIRING PAD AND CONDUIT AND WIRING BACK TO SOURCE FOR BLOCK HEATER, BATTERY CHARGER AND CONTROL WIRING. MAINTAIN OPERATION OF EXISTING GENERATOR AND ASSOCIATED GENERATOR EQUIPMENT UNTIL THE NEW GENERATOR, NEW GENERATOR EQUIPMENT, AND ASSOCIATED FEEDERS AND BRANCH CIRCUITS ARE INSTALLED AND EXISTING FEEDERS AND BRANCH CIRCUITS ARE READY TO BE RECONNECTED TO NEW GENERATOR EQUIPMENT.
  - DISCONNECT EXISTING BRANCH CIRCUITS FROM CIRCUIT BREAKERS. EXISTING NON-EMERGENCY CIRCUITS SHALL REMAIN. REMOVE INTERIOR COMPONENTS (BUSBAR, CIRCUIT BREAKERS) OF EXISTING PANEL E. ENCLOSURE OF EXISTING PANEL E SHALL REMAIN AND BECOME A PULL BOX FOR CIRCUITS BEING CONNECTED TO NEW PANEL S1. REMOVE PORTION OF EXISTING EMERGENCY (LIFE SAFETY) CIRCUITS (EXISTING CIRCUITS E-2, 9, 10, 14, AND 16) TO CEILING SPACE ABOVE EXISTING PANEL E. FOR SPACING TO NEW PANEL E. THE FOLLOWING EXISTING EMERGENCY (LIFE SAFETY) LIGHTING CIRCUITS SHALL BE RE-CIRCUITED TO NEW PANEL E: EXISTING CIRCUITS E-7, 11, AND 12. REFER TO FLOOR PLANS FOR ADDITIONAL INFORMATION.
  - DISCONNECT AND REMOVE EXISTING HOMERUN CONDUIT AND WIRING BACK TO EXISTING PANEL BR.



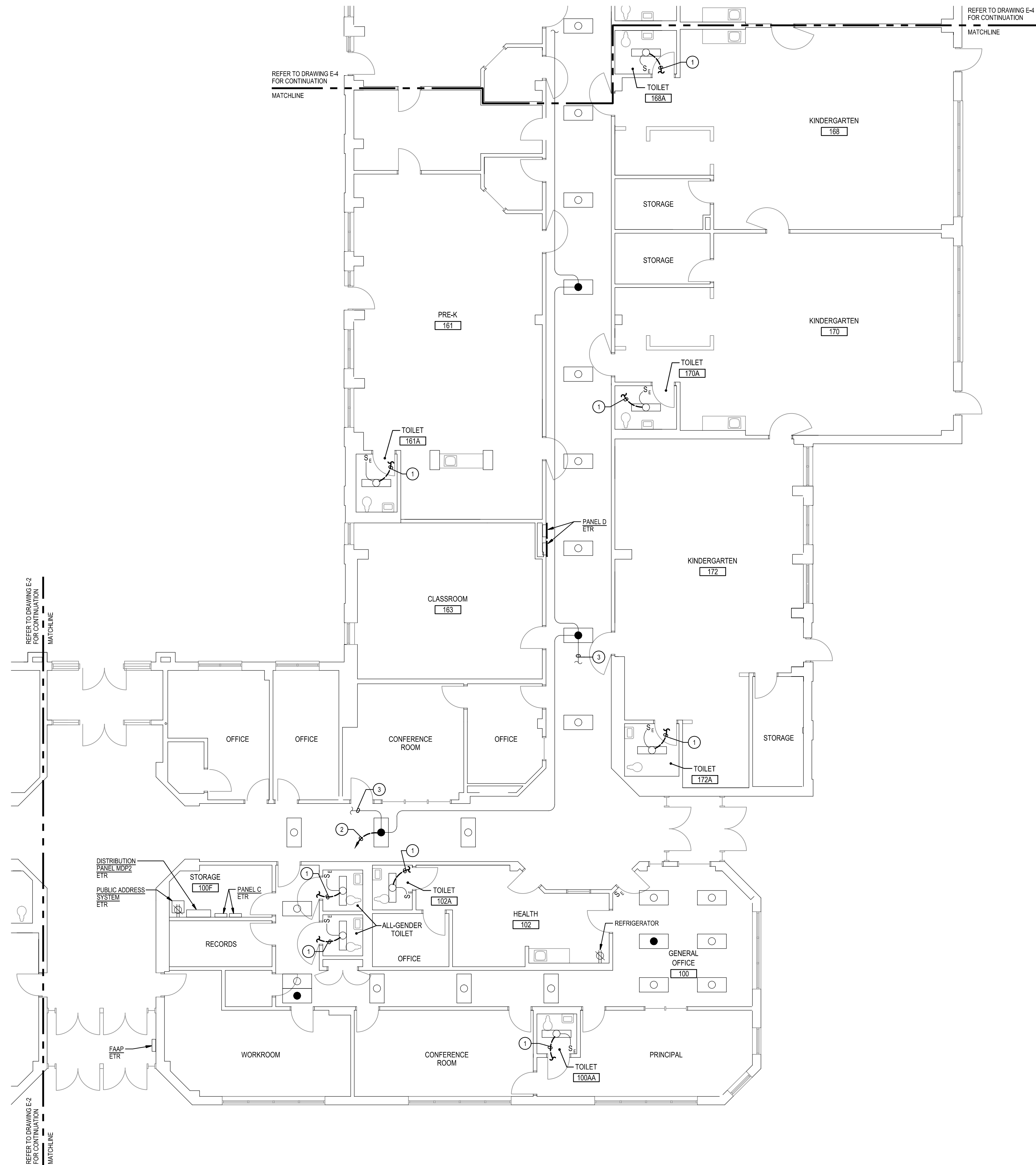
**GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT**  
**ROCK VIEW ELEMENTARY SCHOOL**  
 3901 DENFELD AVENUE  
 KENSINGTON, MD 20895  
 MONTGOMERY COUNTY PUBLIC SCHOOLS

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland, License No. 24861, Expiration date 02-24-2026.

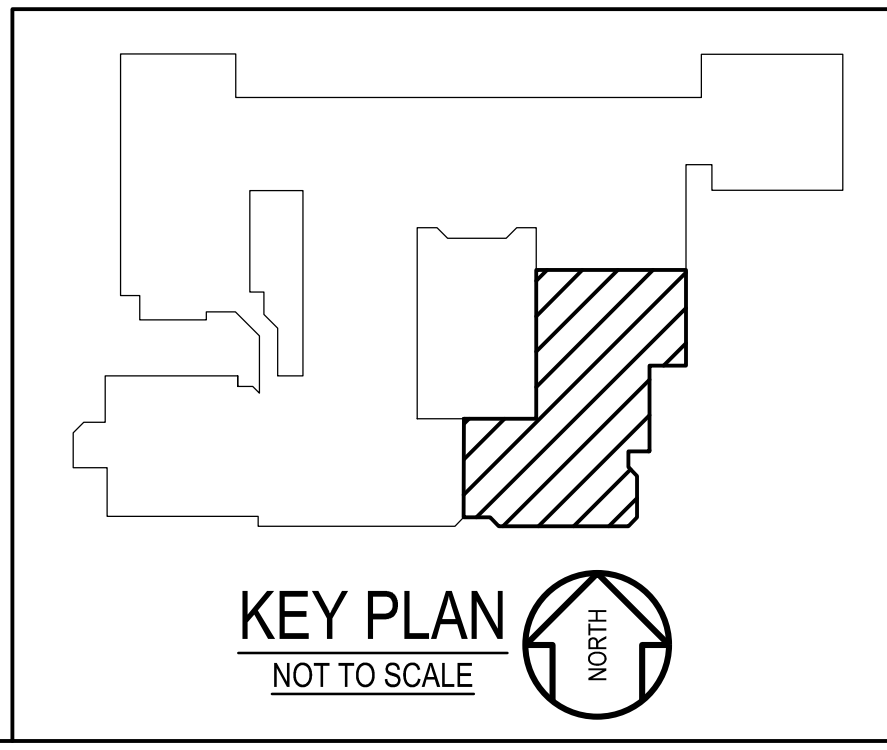
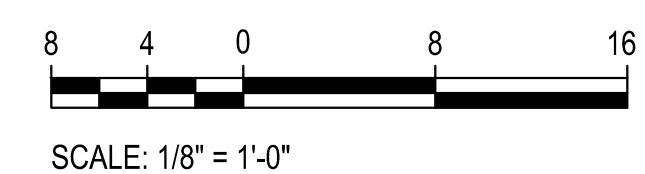
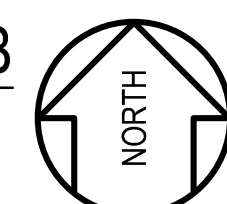
**James Posey Associates**  
 Engineering Your Vision  
 Mechanical & Electrical Consulting Engineers  
 11155 Red Run Boulevard, Suite 310  
 Baltimore, Maryland 21117  
 tel 410-265-6100  
 jamesposey.com

Tag	Description	Date
	BID SET	09/25/24
PSC No.		
Scale	AS NOTED	
Project No.	7910-23	
Date	SEPTEMBER 25, 2024	
Drawing Title	<b>PART FIRST FLOOR PLAN AREA A DEMOLITION</b>	
Sheet No.	<b>E-2</b>	





1  
E-3  
**PART FIRST FLOOR PLAN - AREA B**  
DEMOLITION  
SCALE: 1/8" = 1'-0"



- GENERAL NOTES:**
- INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.
  - THE EXISTING FACILITY SHALL REMAIN IN OPERATION DURING RENOVATION. INTERRUPTION TO THE EXISTING BUILDING ELECTRIC SERVICE SHALL BE COORDINATED WITH THE OWNER TO MINIMIZE DISRUPTION. INTERRUPTION OF UTILITIES SHALL NOT OCCUR DURING SCHOOL WORKING HOURS.
  - REMOVE AND REINSTALL EXISTING CEILING TILES WITHIN CONSTRUCTION AREAS AS REQUIRED.
  - CONSTRUCTION SHALL BE PERFORMED IN PHASES. AVOID INTERRUPTION TO ANY SERVICES. GENERATOR POWER DISTRIBUTION SYSTEM SHALL BE OPERATIONAL AT ALL TIMES WHEN SCHOOL IS IN SESSION.
  - UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN HEAVY DASHED (---) SHALL BE REMOVED AND ELECTRICAL ITEMS SHOWN LIGHT SOLID (—) SHALL REMAIN.
  - DEMOLITION SHALL INCLUDE REMOVAL AND OFF-SITE DISPOSAL OF MATERIALS. DO NOT ABANDON IN PLACE ANY ELECTRICAL COMPONENTS UNLESS OTHERWISE NOTED ON DRAWINGS.
  - WHERE EQUIPMENT IS NOTED "DISCONNECT" OR "REMOVE", REMOVE ASSOCIATED WIRE AND CONDUIT BACK TO SOURCE UNLESS OTHERWISE NOTED.
  - REMOVE EXISTING EQUIPMENT AND DEVICES INDICATED, INCLUDING ASSOCIATED WIRE AND CONDUIT BACK TO SOURCE UNLESS OTHERWISE NOTED.
  - EXISTING CIRCUITS INTERRUPTED BY DEMOLITION, BUT ARE TO REMAIN, SHALL BE MADE CONTINUOUS.
  - WHERE DEVICES ARE TO BE REMOVED AND REINSTALLED, PROVIDE WIRE AND CONDUIT TO NEW LOCATION AS REQUIRED.
  - IN BLOCK OR CONCRETE WALLS TO REMAIN, PROVIDE STAINLESS STEEL BLANK COVER PLATES FOR DEVICES REMOVED.

- SPECIFIC NOTES:**
- DISCONNECT AND REMOVE EXISTING WIRING IN CONDUIT SERVING EXISTING LIGHTING FIXTURES.
  - DISCONNECT AND REMOVE EXISTING HOMERUN CONDUIT AND WIRING BACK TO EXISTING PANEL E, SERVING SECTION 2 LIGHTING ON GENERATOR POWER. EXISTING EMERGENCY LIGHTING CIRCUIT SHALL BE RE-CIRCUITED TO NEW PANEL E2. REFER TO DRAWING E-9 FOR HOMERUN TO PANEL E2.
  - EXISTING EMERGENCY LIGHTING CIRCUIT TO EXIT SIGNS.

**GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT**  
**ROCK VIEW ELEMENTARY SCHOOL**  
 3901 DENFELD AVENUE  
 KENSINGTON, MD 20895  
 MONTGOMERY COUNTY PUBLIC SCHOOLS



Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland. License No. 24681, Expiration date 02-24-2026.

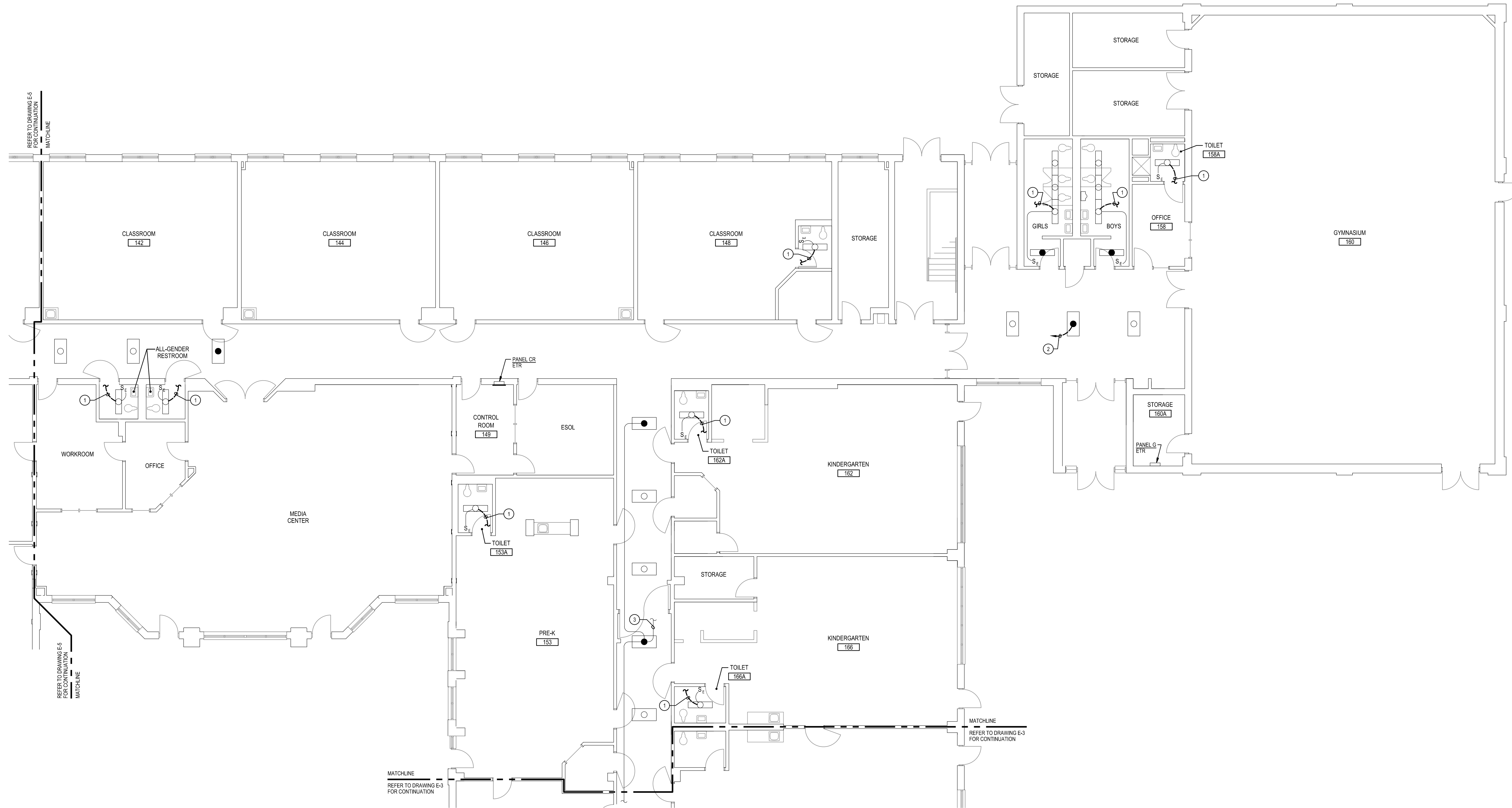
**James Posey Associates**  
Engineering Your Vision

Mechanical & Electrical Consulting Engineers  
 11155 Red Run Boulevard, Suite 310  
 Baltimore, Maryland 21117  
 tel 410-265-6100  
 jamesposey.com

Tag	Description	Date
	BID SET	09/25/24

PSC No.	
Scale	AS NOTED
Project No.	7910-23
Date	SEPTEMBER 25, 2024
Drawing Title	<b>PART FIRST FLOOR PLAN AREA B DEMOLITION</b>
Sheet No.	<b>E-3</b>





**GENERAL NOTES:**

- A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PRESENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.
- B. THE EXISTING FACILITY SHALL REMAIN IN OPERATION DURING RENOVATION. INTERRUPTION TO THE EXISTING BUILDING ELECTRIC SERVICE SHALL BE COORDINATED WITH THE OWNER TO MINIMIZE DISRUPTION. INTERRUPTION OF UTILITIES SHALL NOT OCCUR DURING SCHOOL WORKING HOURS.
- C. REMOVE AND REINSTALL EXISTING CEILING TILES WITHIN CONSTRUCTION AREAS AS REQUIRED.
- D. CONSTRUCTION SHALL BE PERFORMED IN PHASES. AVOID INTERRUPTION TO ANY SERVICES. GENERATOR POWER DISTRIBUTION SYSTEM SHALL BE OPERATIONAL AT ALL TIMES WHEN SCHOOL IS IN SESSION.
- E. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN HEAVY DASHED (---) SHALL BE REMOVED AND ELECTRICAL ITEMS SHOWN LIGHT SOLID (—) SHALL REMAIN.
- F. DEMOLITION SHALL INCLUDE REMOVAL AND OFF-SITE DISPOSAL OF MATERIALS. DO NOT ABANDON IN PLACE ANY ELECTRICAL COMPONENTS UNLESS OTHERWISE NOTED ON DRAWINGS.
- G. WHERE EQUIPMENT IS NOTED "DISCONNECT" OR "REMOVE", REMOVE ASSOCIATED WIRE AND CONDUIT BACK TO SOURCE, UNLESS OTHERWISE NOTED.
- H. REMOVE EXISTING EQUIPMENT AND DEVICES INDICATED, INCLUDING ASSOCIATED WIRE AND CONDUIT BACK TO SOURCE UNLESS OTHERWISE NOTED.
- I. EXISTING CIRCUITS INTERRUPTED BY DEMOLITION, BUT ARE TO REMAIN, SHALL BE MADE CONTINUOUS.
- J. WHERE DEVICES ARE TO BE REMOVED AND REINSTALLED, PROVIDE WIRE AND CONDUIT TO NEW LOCATION AS REQUIRED.
- K. IN BLOCK OR CONCRETE WALLS TO REMAIN, PROVIDE STAINLESS STEEL BLANK COVER PLATES FOR DEVICES REMOVED.

**SPECIFIC NOTES:**

- 1 DISCONNECT AND REMOVE EXISTING WIRING IN CONDUIT SERVING EXISTING LIGHTING FIXTURES.
- 2 DISCONNECT AND REMOVE EXISTING HOMERUN CONDUIT AND WIRING BACK TO EXISTING PANEL, E. SERVING GYMNASIUM ADDITIONAL LIGHTING ON GENERATOR POWER. EXISTING EMERGENCY LIGHTING CIRCUIT SHALL BE RE-CIRCUITED TO NEW PANEL E2.
- 3 EXISTING EMERGENCY LIGHTING CIRCUIT TO EXIT SIGNS.

GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT  
**ROCK VIEW ELEMENTARY SCHOOL**  
 3901 DENFELD AVENUE  
 KENSINGTON, MD 20895  
 MONTGOMERY COUNTY PUBLIC SCHOOLS



Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland, License No. 24861, Expiration date 02-24-2026.

**James Posey Associates**  
 Engineering Your Vision

Mechanical & Electrical  
 Consulting Engineers  
 11155 Red Run Boulevard, Suite 310  
 Baltimore, Maryland 21117  
 tel 410-265-6100  
 jamesposey.com

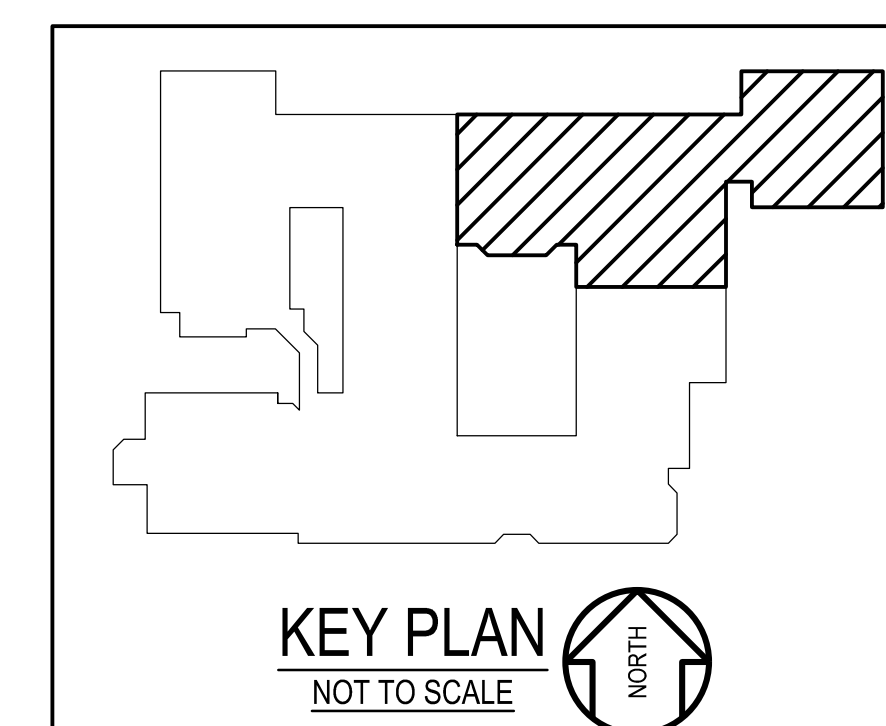
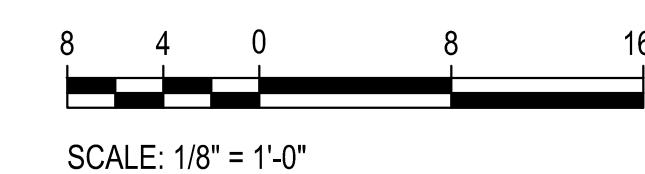
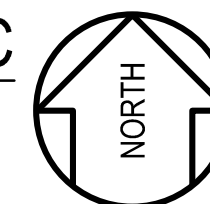
Tag	Description	Date
	BID SET	09/25/24

PSC No.	
Scale	AS NOTED
Project No.	7910-23
Date	SEPTEMBER 25, 2024

Drawing Title  
**PART FIRST FLOOR PLAN  
 AREA C  
 DEMOLITION**

Sheet No:  
**E-4**

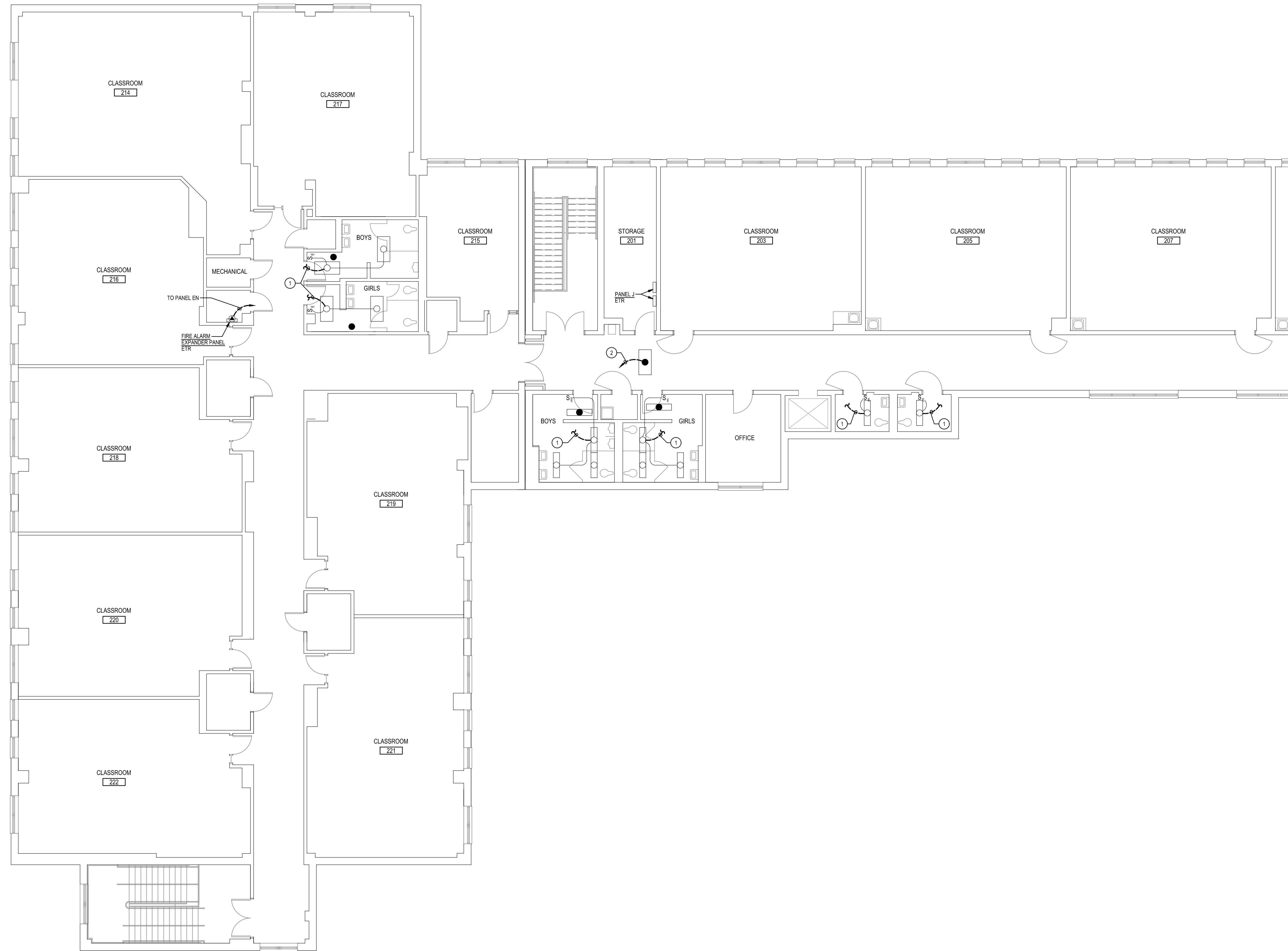
1  
 E-4  
**PART FIRST FLOOR PLAN - AREA C**  
 DEMOLITION  
 SCALE: 1/8" = 1'-0"











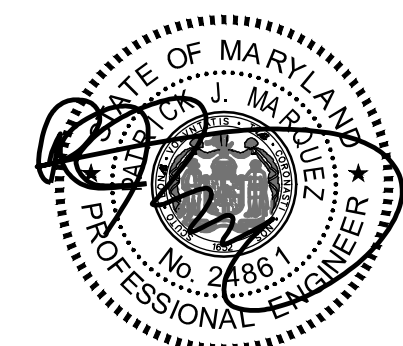
**GENERAL NOTES:**

- A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.
- B. THE EXISTING FACILITY SHALL REMAIN IN OPERATION DURING RENOVATION. INTERRUPTION TO THE EXISTING BUILDING ELECTRIC SERVICE SHALL BE COORDINATED WITH THE OWNER TO MINIMIZE DISRUPTION. INTERRUPTION OF UTILITIES SHALL NOT OCCUR DURING SCHOOL WORKING HOURS.
- C. REMOVE AND REINSTALL EXISTING CEILING TILES WITHIN CONSTRUCTION AREAS AS REQUIRED.
- D. CONSTRUCTION SHALL BE PERFORMED IN PHASES. AVOID INTERRUPTION TO ANY SERVICES. GENERATOR POWER DISTRIBUTION SYSTEM SHALL BE OPERATIONAL AT ALL TIMES WHEN SCHOOL IS IN SESSION.
- E. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN HEAVY DASHED (---) SHALL BE REMOVED AND ELECTRICAL ITEMS SHOWN LIGHT SOLID (—) SHALL REMAIN.
- F. DEMOLITION SHALL INCLUDE REMOVAL AND OFF-SITE DISPOSAL OF MATERIALS. DO NOT ABANDON IN PLACE ANY ELECTRICAL COMPONENTS UNLESS OTHERWISE NOTED ON DRAWINGS.
- G. WHERE EQUIPMENT IS NOTED "DISCONNECT" OR "REMOVE", REMOVE ASSOCIATED WIRE AND CONDUIT BACK TO SOURCE UNLESS OTHERWISE NOTED.
- H. REMOVE EXISTING EQUIPMENT AND DEVICES INDICATED, INCLUDING ASSOCIATED WIRE AND CONDUIT BACK TO SOURCE UNLESS OTHERWISE NOTED.
- I. EXISTING CIRCUITS INTERRUPTED BY DEMOLITION, BUT ARE TO REMAIN, SHALL BE MADE CONTINUOUS.
- J. WHERE DEVICES ARE TO BE REMOVED AND REINSTALLED, PROVIDE WIRE AND CONDUIT TO NEW LOCATION AS REQUIRED.
- K. IN BLOCK OR CONCRETE WALLS TO REMAIN, PROVIDE STAINLESS STEEL BLANK COVER PLATES FOR DEVICES REMOVED.

**SPECIFIC NOTES:**

- 1 DISCONNECT AND REMOVE EXISTING WIRING IN CONDUIT SERVING EXISTING LIGHTING FIXTURES.
- 2 DISCONNECT AND REMOVE EXISTING HOMERUN CONDUIT AND WIRING BACK TO EXISTING PANEL E, SERVING SECOND FLOOR LIGHTING ON GENERATOR POWER.

**GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT**  
**ROCK VIEW ELEMENTARY SCHOOL**  
 3901 DENFELD AVENUE  
 KENSINGTON, MD 20895  
 MONTGOMERY COUNTY PUBLIC SCHOOLS

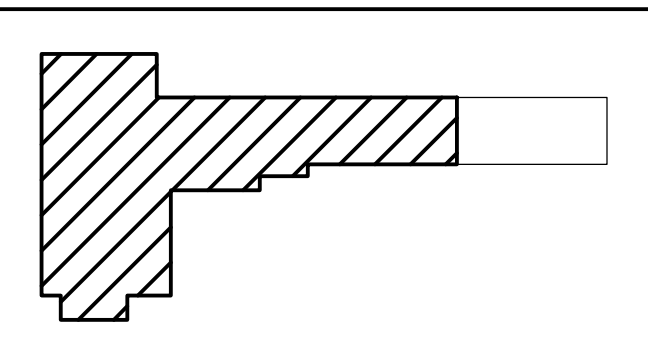
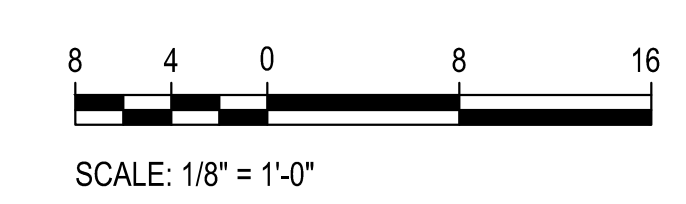
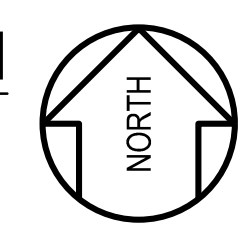


Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland, License No. 24861, Expiration date 02-24-2026.



Mechanical & Electrical Consulting Engineers  
 11155 Red Run Boulevard, Suite 310  
 Baltimore, Maryland 21117  
 tel 410-265-6100  
 jamesposey.com

1 PART SECOND FLOOR PLAN  
 E-6 DEMOLITION  
 SCALE: 1/8" = 1'-0"



KEY PLAN  
 NOT TO SCALE

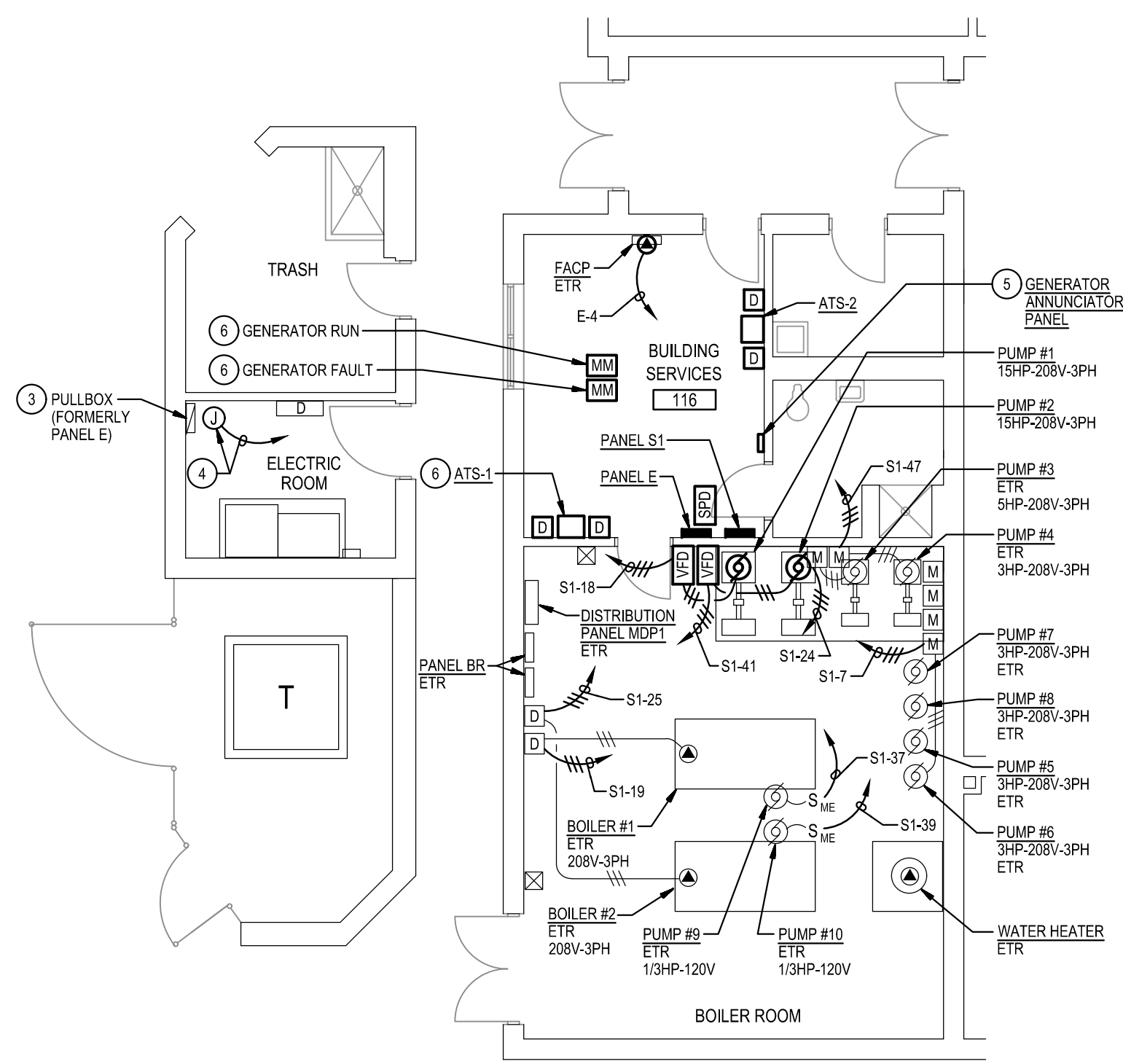
Tag	Description	Date
	BID SET	09/25/24

PSC No.	
Scale	AS NOTED
Project No.	7910-23
Date	SEPTEMBER 25, 2024

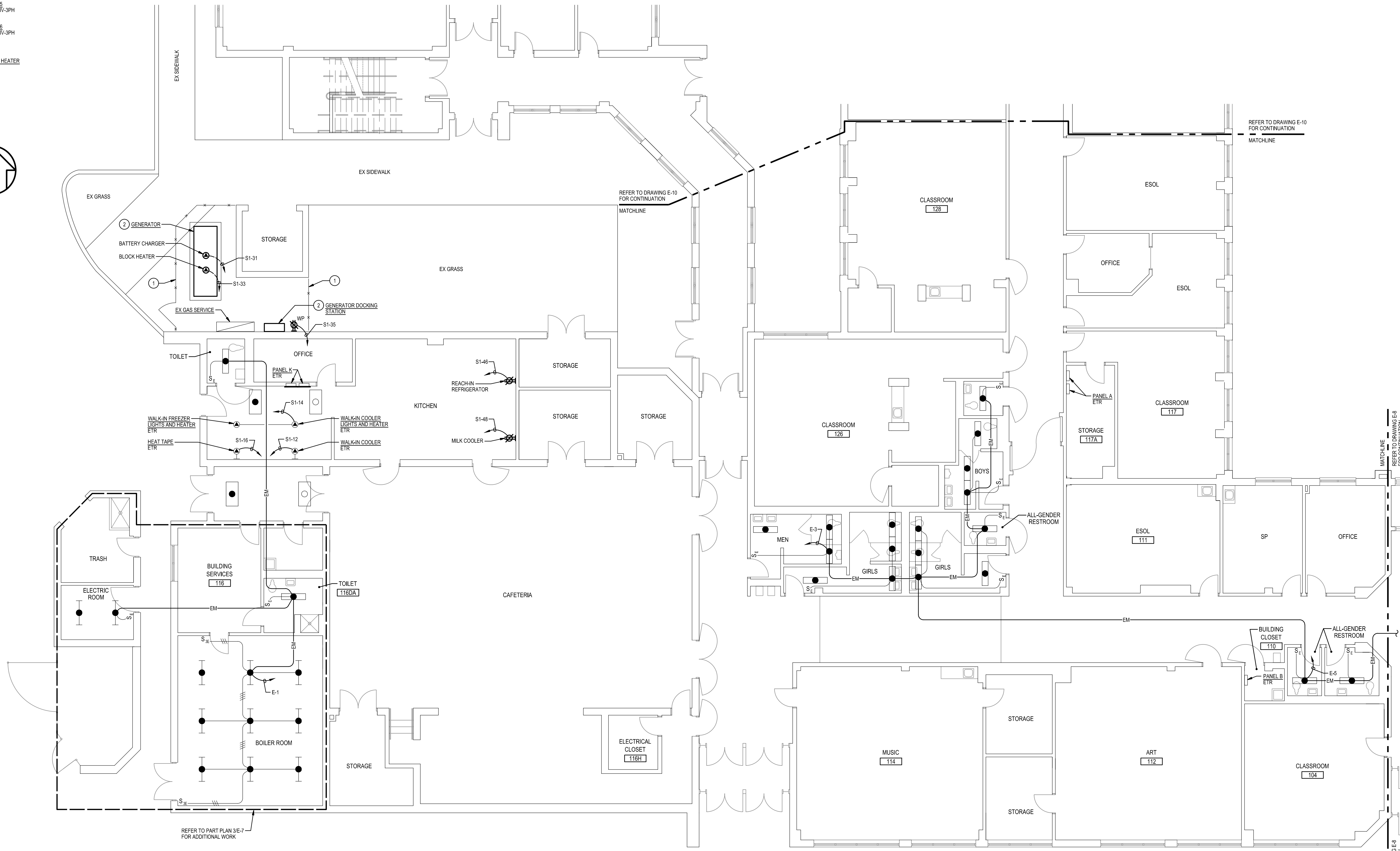
Drawing Title  
**PART SECOND FLOOR PLAN DEMOLITION**

Sheet No:  
**E-6**

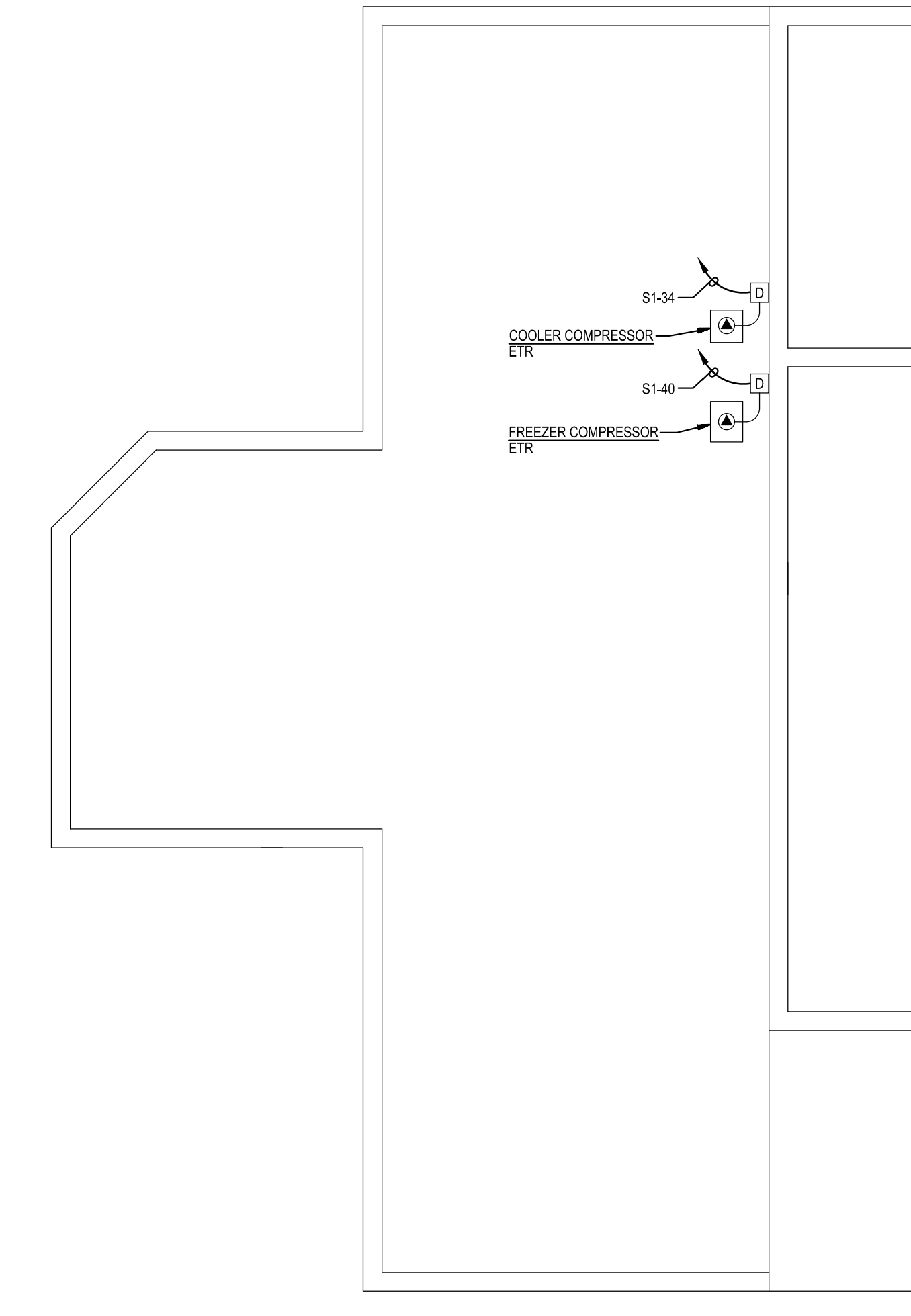




**3 PART FIRST FLOOR PLAN - AREA A**  
**E-7 NEW WORK**  
 SCALE: 1/8" = 1'-0"

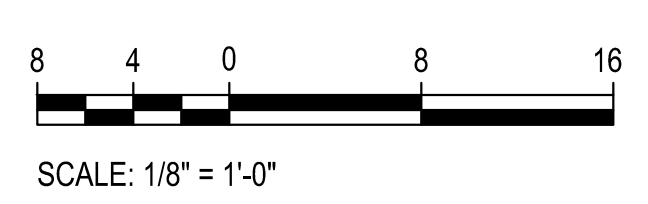


**1 PART FIRST FLOOR PLAN - AREA A**  
**E-7 NEW WORK**  
 SCALE: 1/8" = 1'-0"



**2 PART ROOF PLAN - AREA A**  
**E-7 NEW WORK**  
 SCALE: 1/8" = 1'-0"

- GENERAL NOTES:**
- INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.
  - THE EXISTING FACILITY SHALL REMAIN IN OPERATION DURING RENOVATION. INTERRUPTION TO THE EXISTING BUILDING ELECTRICAL SERVICE SHALL BE COORDINATED WITH THE OWNER TO MINIMIZE DISRUPTION. INTERRUPTION OF UTILITIES SHALL NOT OCCUR DURING SCHOOL WORKING HOURS.
  - REMOVE AND REINSTALL EXISTING CEILING TILES WITHIN CONSTRUCTION AREAS AS REQUIRED.
  - CONSTRUCTION SHALL BE PERFORMED IN PHASES. AVOID INTERRUPTION TO ANY SERVICES. GENERATOR POWER DISTRIBUTION SYSTEM SHALL BE OPERATIONAL AT ALL TIMES WHEN SCHOOL IS IN SESSION.
- SPECIFIC NOTES:**
- PROVIDE 8'-0" TALL CHAIN LINK FENCE WITH 4'-0" WIDE OPENING AND ONE 4'-0" WIDE GATE. FENCE POSTS PROVIDED AT EXISTING SIDEWALKS SHALL BE INSTALLED PER SPECIFICATIONS. GET EXISTING SIDEWALK NECESSARY FOR INSTALLATION OF FENCE POSTS. PATCH SIDEWALK TO MATCH EXISTING.
  - REFER TO POWER RISER DIAGRAM DIE-12 FOR CONNECTIONS AND ADDITIONAL INFORMATION ON ELECTRICAL EQUIPMENT AS NOTED.
  - UTILIZE PANELBOARD ENCLOSURE AS A PULLBOX TO INTERCEPT AND SPLICE EXISTING BRANCH CIRCUITS E-1, 3, 4, 5, 6, 8, 15, 17, AND 32 AND EXTEND TO PANEL SP. REFER TO SPECIFIC NOTE 5 ON THIS DRAWING AND WIRING SCHEDULES DRAWING E-12 FOR ADDITIONAL INFORMATION.
  - SPLICE AND EXTEND EXISTING EMERGENCY / LIFE SAFETY CIRCUITS (CIRCUITS E-2, 9, 10, 14, AND 19) TO NEW PANEL E. BRANCH WIRING AND CONDUIT SIZES TO MATCH EXISTING. REFER TO WIRING SCHEDULES ON DRAWING E-13 FOR ADDITIONAL INFORMATION.
  - COORDINATE EXACT LOCATION OF GENERATOR ANNUNCIATOR PANEL WITH MOPS.
  - RECONNECT EXISTING FIRE DETECTION AND ALARM SYSTEM MONITOR MODULES FOR "GENERATOR RUN" AND "GENERATOR FAULT" TO GENERATOR AT ATS-1. EXTEND EXISTING FIRE ALARM WIRING IN CONDUIT AND MAKE CONNECTIONS NECESSARY FOR A COMPLETE INSTALLATION. RE-PROGRAM FIRE ALARM CONTROL PANEL AS REQUIRED.



**GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT**  
**ROCK VIEW ELEMENTARY SCHOOL**  
 3901 DENFELD AVENUE  
 KENSINGTON, MD 20895  
 MONTGOMERY COUNTY PUBLIC SCHOOLS

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland, License No. 24681, Expiration date 02-24-2026.

**James Posey Associates**  
 Engineering Your Vision  
 Mechanical & Electrical Consulting Engineers  
 11155 Red Run Boulevard, Suite 310  
 Baltimore, Maryland 21117  
 tel 410-265-6100  
 jamesposey.com

Tag	Description	Date
	BID SET	09/25/24
PSC No.		
Scale	AS NOTED	
Project No.	7910-23	
Date	SEPTEMBER 25, 2024	
Drawing Title	PART FIRST FLOOR PLAN AREA A NEW WORK	
Sheet No.	<b>E-7</b>	

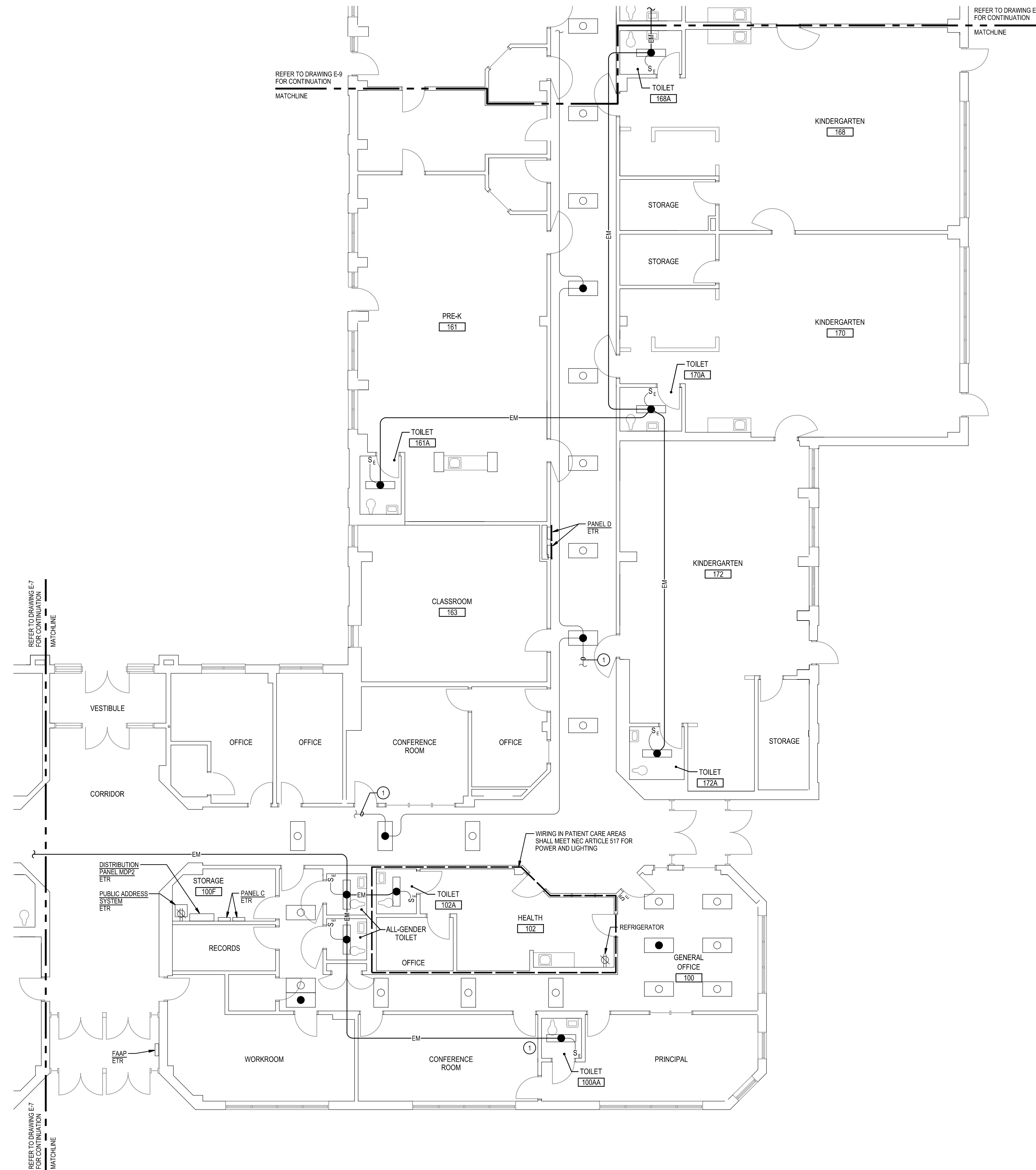


**GENERAL NOTES:**

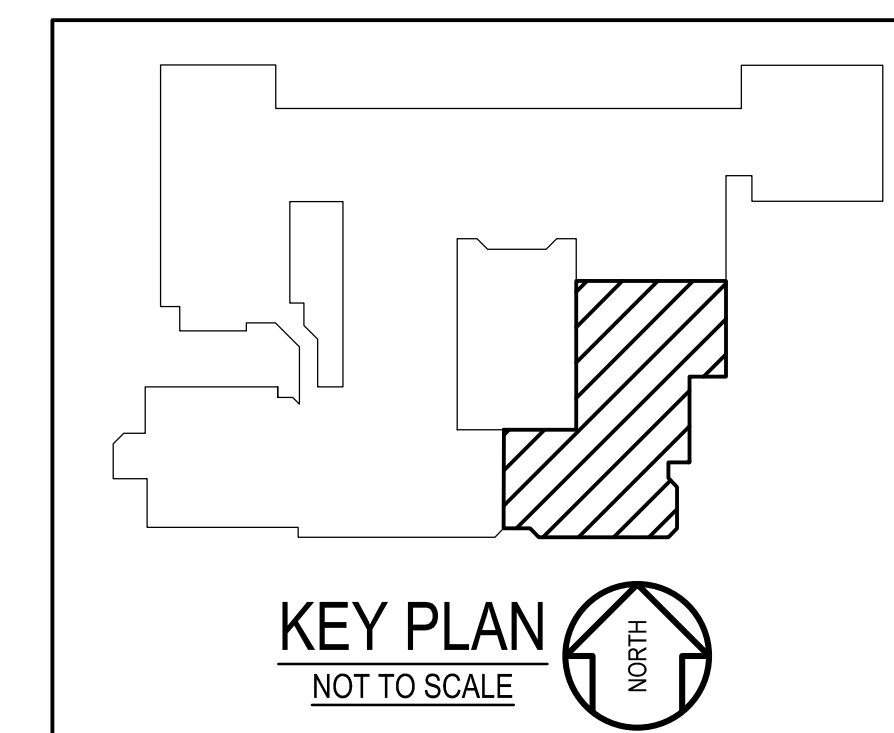
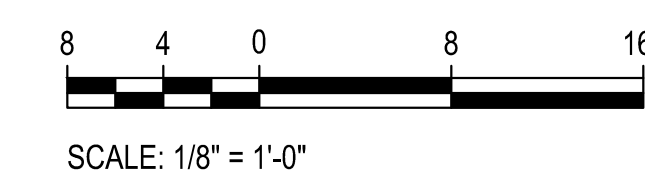
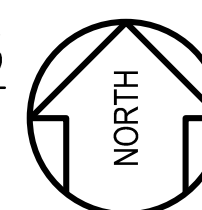
- A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.
- B. THE EXISTING FACILITY SHALL REMAIN IN OPERATION DURING RENOVATION. INTERRUPTION TO THE EXISTING BUILDING ELECTRIC SERVICE SHALL BE COORDINATED WITH THE OWNER TO MINIMIZE DISRUPTION. INTERRUPTION OF UTILITIES SHALL NOT OCCUR DURING SCHOOL WORKING HOURS.
- C. REMOVE AND REINSTALL EXISTING CEILING TILES WITHIN CONSTRUCTION AREAS AS REQUIRED.
- D. CONSTRUCTION SHALL BE PERFORMED IN PHASES. AVOID INTERRUPTION TO ANY SERVICES. GENERATOR POWER DISTRIBUTION SYSTEM SHALL BE OPERATIONAL AT ALL TIMES WHEN SCHOOL IS IN SESSION.

**SPECIFIC NOTES:**

- ① EXISTING EMERGENCY LIGHTING CIRCUIT TO EXIT SIGNS.



① E-8 PART FIRST FLOOR PLAN - AREA B  
NEW WORK  
SCALE: 1/8" = 1'-0"



**GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT**  
**ROCK VIEW ELEMENTARY SCHOOL**  
 3901 DENFELD AVENUE  
 KENSINGTON, MD 20895  
 MONTGOMERY COUNTY PUBLIC SCHOOLS



Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland. License No. 24861, Expiration date 02-24-2026.

**James Posey Associates**  
Engineering Your Vision

Mechanical & Electrical Consulting Engineers  
 11155 Red Run Boulevard, Suite 310  
 Baltimore, Maryland 21117  
 tel 410-265-6100  
 jamesposey.com

Tag	Description	Date
	BID SET	09/25/24

PSC No.	
Scale	AS NOTED
Project No.	7910-23
Date	SEPTEMBER 25, 2024

Drawing Title  
**PART FIRST FLOOR PLAN  
 AREA B  
 NEW WORK**

Sheet No:  
**E-8**



**GENERAL NOTES:**

- A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PRESENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.
- B. THE EXISTING FACILITY SHALL REMAIN IN OPERATION DURING RENOVATION. INTERRUPTION TO THE EXISTING BUILDING ELECTRIC SERVICE SHALL BE COORDINATED WITH THE OWNER TO MINIMIZE DISRUPTION. INTERRUPTION OF UTILITIES SHALL NOT OCCUR DURING SCHOOL WORKING HOURS.
- C. REMOVE AND REINSTALL EXISTING CEILING TILES WITHIN CONSTRUCTION AREAS AS REQUIRED.
- D. CONSTRUCTION SHALL BE PERFORMED IN PHASES. AVOID INTERRUPTION TO ANY SERVICES. GENERATOR POWER DISTRIBUTION SYSTEM SHALL BE OPERATIONAL AT ALL TIMES WHEN SCHOOL IS IN SESSION.

**SPECIFIC NOTES:**

- ① PROVIDE 2 #12 + #12 GROUND IN 3/4" CONDUIT AND CONNECT TO NEAREST EXISTING UNSWITCHED EMERGENCY LIGHTING CIRCUIT.
- ② PROVIDE CONNECTION OF EXISTING GYMNASIUM LIGHTING, ON GENERATOR POWER, TO NEW PANEL AS INDICATED.
- ③ PROVIDE CONNECTION OF EXISTING SECTION 2 LIGHTING, ON GENERATOR POWER, TO NEW PANEL AS INDICATED.
- ④ EXISTING EMERGENCY LIGHTING CIRCUIT TO EXIT SIGNS.

GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT  
**ROCK VIEW ELEMENTARY SCHOOL**  
 3901 DENFELD AVENUE  
 KENSINGTON, MD 20895  
 MONTGOMERY COUNTY PUBLIC SCHOOLS



Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland. License No. 24861, Expiration date 02-24-2026.

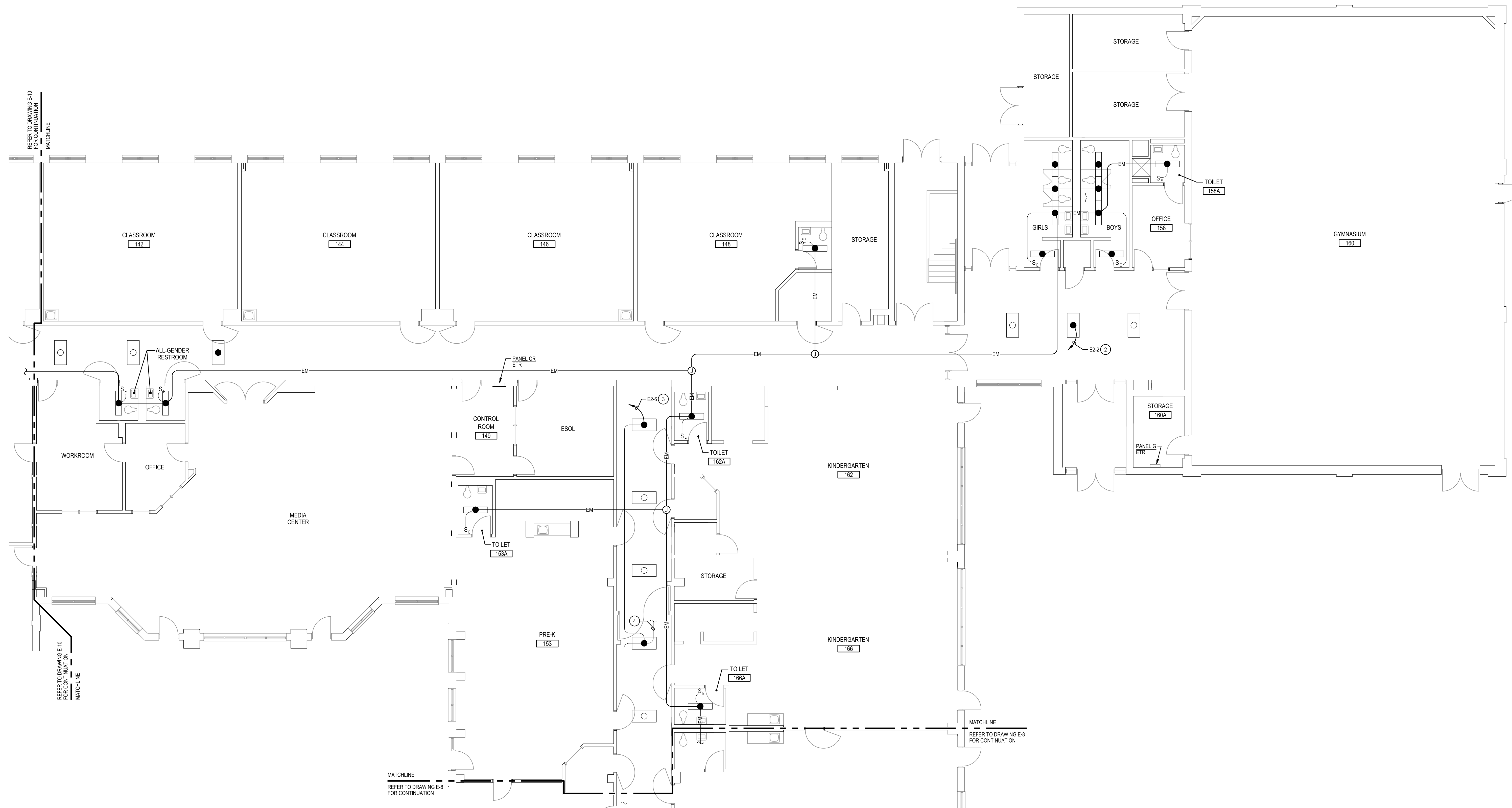
**James Posey Associates**  
 Engineering Your Vision  
 Mechanical & Electrical  
 Consulting Engineers

11155 Red Run Boulevard, Suite 310  
 Baltimore, Maryland 21117  
 tel 410-265-6100  
 jamesposey.com

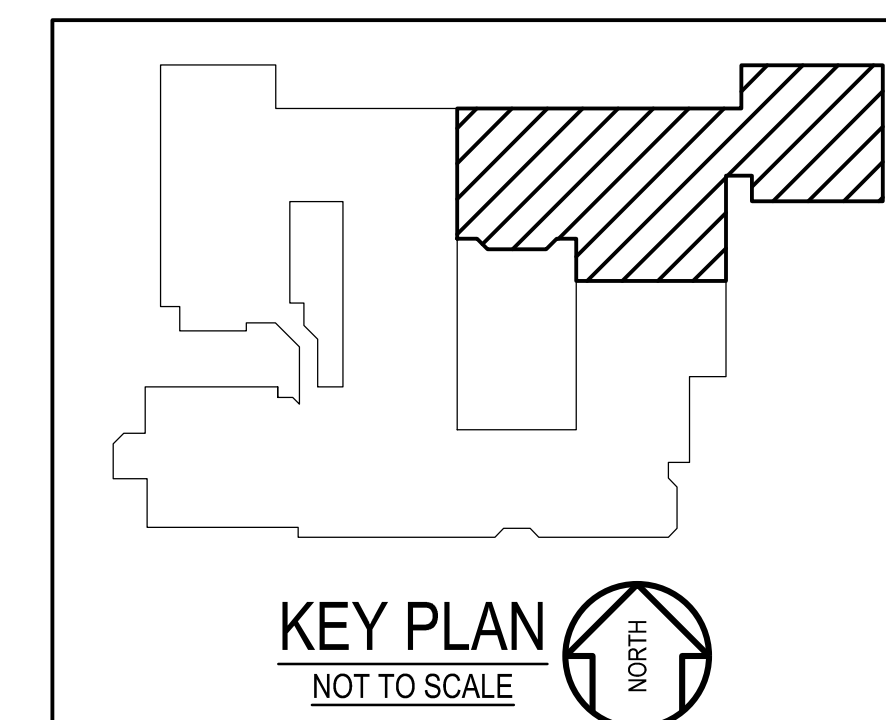
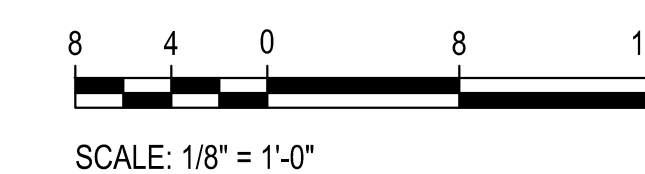
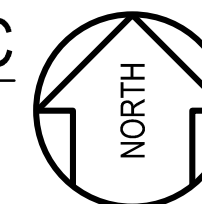
Tag	Description	Date
	BID SET	09/25/24

PSC No.	
Scale	AS NOTED
Project No.	7910-23
Date	SEPTEMBER 25, 2024
Drawing Title	<b>PART FIRST FLOOR PLAN AREA C NEW WORK</b>

Sheet No:  
E-9



1  
E-9  
PART FIRST FLOOR PLAN - AREA C  
NEW WORK  
SCALE: 1/8" = 1'-0"



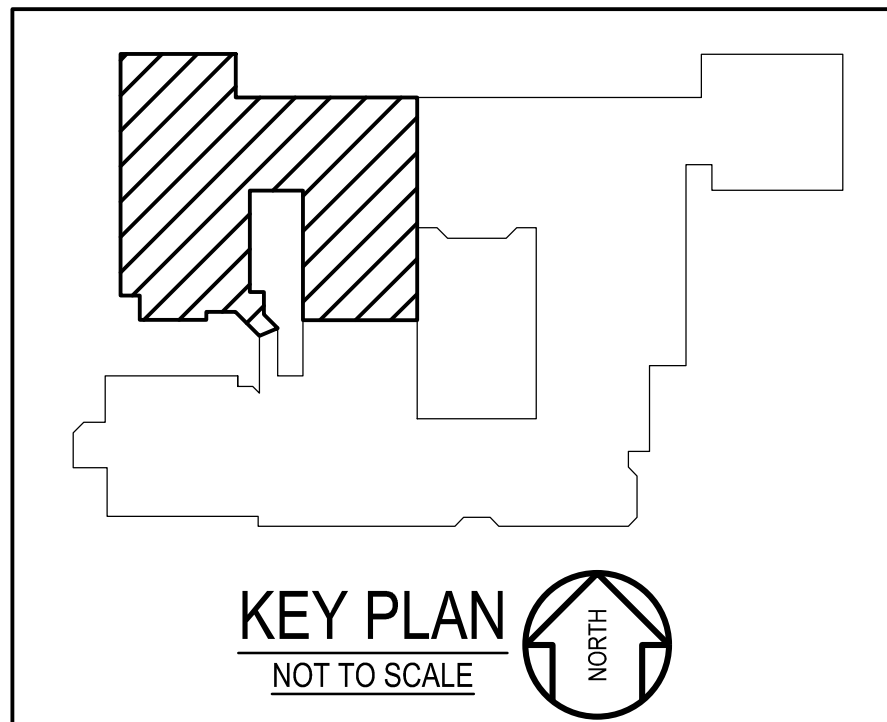
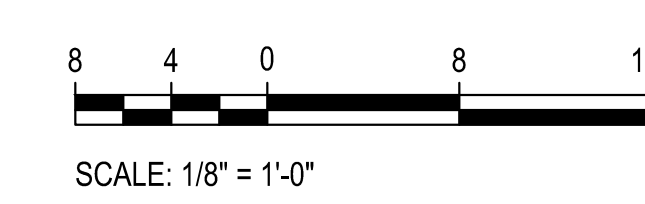
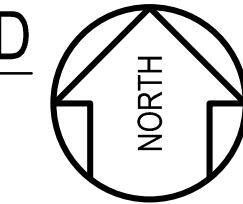




- GENERAL NOTES:**
- A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.
  - B. THE EXISTING FACILITY SHALL REMAIN IN OPERATION DURING RENOVATION. INTERRUPTION TO THE EXISTING BUILDING ELECTRIC SERVICE SHALL BE COORDINATED WITH THE OWNER TO MINIMIZE DISRUPTION. INTERRUPTION OF UTILITIES SHALL NOT OCCUR DURING SCHOOL WORKING HOURS.
  - C. REMOVE AND REINSTALL EXISTING CEILING TILES WITHIN CONSTRUCTION AREAS AS REQUIRED.
  - D. CONSTRUCTION SHALL BE PERFORMED IN PHASES. AVOID INTERRUPTION TO ANY SERVICES. GENERATOR POWER DISTRIBUTION SYSTEM SHALL BE OPERATIONAL AT ALL TIMES WHEN SCHOOL IS IN SESSION.

- SPECIFIC NOTES:**
- 1 PROVIDE 2 #12 + #12 GROUND IN 3/4" CONDUIT AND CONNECT TO NEAREST EXISTING UNSWITCHED EMERGENCY LIGHTING CIRCUIT.
  - 2 SPLICE EXISTING LIGHTING CIRCUITS DISCONNECTED FROM EXISTING PANEL EN.

1 E-10 PART FIRST FLOOR PLAN - AREA D  
NEW WORK  
SCALE: 1/8" = 1'-0"



**GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT**  
**ROCK VIEW ELEMENTARY SCHOOL**  
 3901 DENFELD AVENUE  
 KENSINGTON, MD 20895  
 MONTGOMERY COUNTY PUBLIC SCHOOLS



Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland. License No. 24861, Expiration date 02-24-2026.

**James Posey Associates**  
Engineering Your Vision

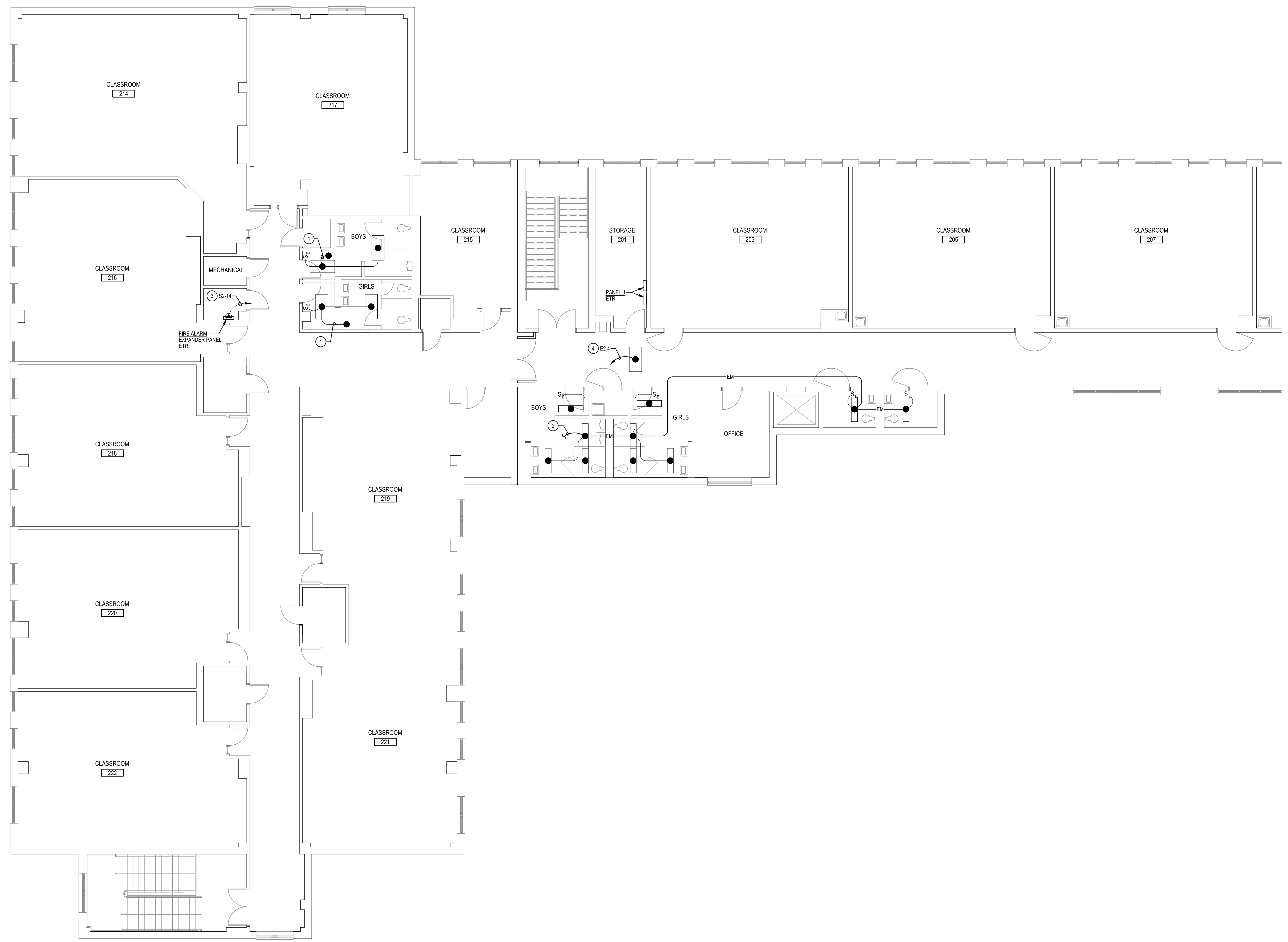
Mechanical & Electrical Consulting Engineers  
 11155 Red Run Boulevard, Suite 310  
 Baltimore, Maryland 21117  
 tel 410-265-6100  
 jamesposey.com

Tag	Description	Date
	BID SET	09/25/24

PSC No.	
Scale	AS NOTED
Project No.	7910-23
Date	SEPTEMBER 25, 2024
Drawing Title	PART FIRST FLOOR PLAN AREA D NEW WORK

Sheet No:  
**E-10**





- GENERAL NOTES:**
- INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.
  - THE EXISTING FACILITY SHALL REMAIN IN OPERATION DURING RENOVATION. INTERRUPTION TO THE EXISTING BUILDING ELECTRIC SERVICE SHALL BE COORDINATED WITH THE OWNER TO MINIMIZE DISRUPTION. INTERRUPTION OF UTILITIES SHALL NOT OCCUR DURING SCHOOL WORKING HOURS.
  - REMOVE AND REINSTALL EXISTING CEILING TILES WITHIN CONSTRUCTION AREAS AS REQUIRED.
  - CONSTRUCTION SHALL BE PERFORMED IN PHASES. AVOID INTERRUPTION TO ANY SERVICES. GENERATOR POWER DISTRIBUTION SYSTEM SHALL BE OPERATIONAL AT ALL TIMES WHEN SCHOOL IS IN SESSION.
- SPECIFIC NOTES:**
- PROVIDE 2 #12 + #12 GROUND IN 3/4" CONDUIT AND CONNECT TO NEAREST EXISTING UNSWITCHED EMERGENCY LIGHTING CIRCUIT.
  - PROVIDE 2 #12 + #12 GROUND IN 3/4" CONDUIT AND CONNECT TO EMERGENCY LIGHTING CIRCUIT E-3 ALSO SERVING FIRST FLOOR TOILET ROOMS BELOW.
  - EXISTING CIRCUIT TO REMAIN. PROVIDE UPDATED CIRCUIT LABEL ON FRONT COVER OF FIRE ALARM EXPANDER PANEL.
  - PROVIDE CONNECTION OF EXISTING SECOND FLOOR LIGHTING, ON GENERATOR POWER, TO NEW PANEL AS INDICATED.

GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT  
**ROCK VIEW ELEMENTARY SCHOOL**  
 3901 DENFELD AVENUE  
 KENSINGTON, MD 20895  
 MONTGOMERY COUNTY PUBLIC SCHOOLS

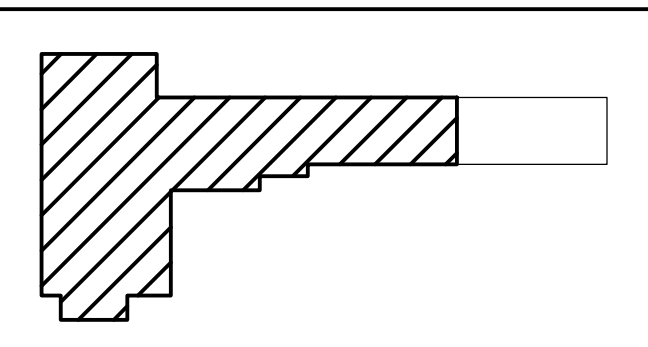
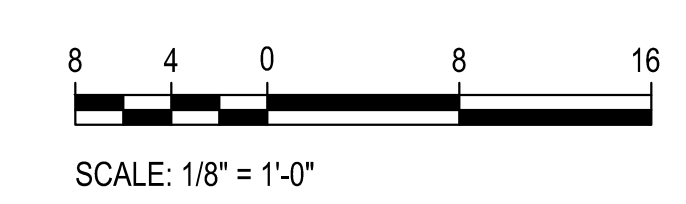


Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland, License No. 24681, Expiration date 02-24-2026.



Mechanical & Electrical  
 Consulting Engineers  
 11155 Red Run Boulevard, Suite 310  
 Baltimore, Maryland 21117  
 tel 410-265-6100  
 jamesposey.com

1  
 E-11  
**PART SECOND FLOOR PLAN**  
 NEW WORK  
 SCALE: 1/8" = 1'-0"



Tag	Description	Date
	BID SET	09/25/24
PSC No.		
Scale	AS NOTED	
Project No.	7910-23	
Date	SEPTEMBER 25, 2024	
Drawing Title	PART SECOND FLOOR PLAN NEW WORK	
Sheet No.	<b>E-11</b>	



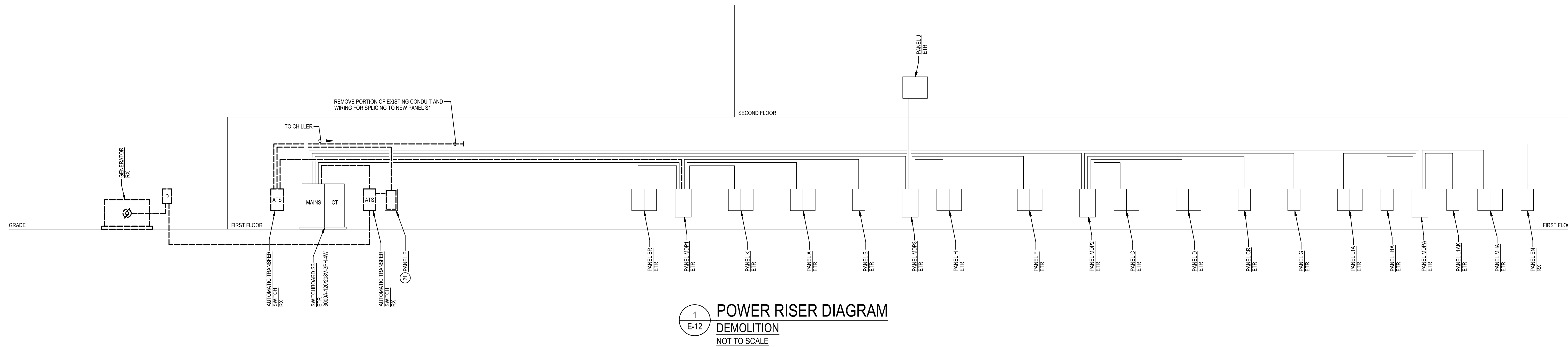
**GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT**  
**ROCK VIEW ELEMENTARY SCHOOL**  
 3901 DENFELD AVENUE  
 KENSINGTON, MD 20895  
 MONTGOMERY COUNTY PUBLIC SCHOOLS

**GENERAL NOTES:**

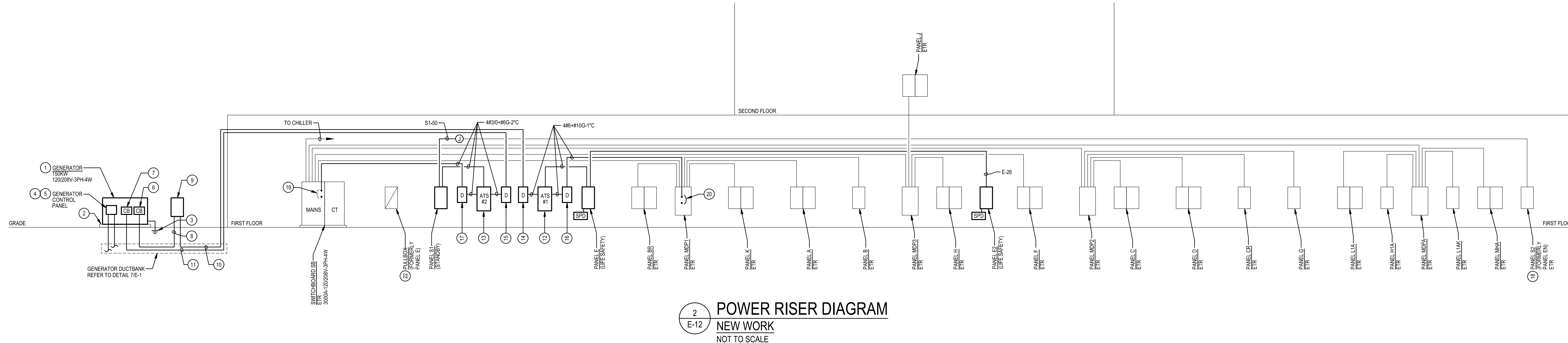
- A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.
- B. THE EXISTING FACILITY SHALL REMAIN IN OPERATION DURING RENOVATION. INTERRUPTION TO THE EXISTING BUILDING ELECTRIC SERVICE SHALL BE COORDINATED WITH THE OWNER TO MINIMIZE DISRUPTION. INTERFERENCE OF UTILITIES SHALL NOT OCCUR DURING SCHOOL WORKING HOURS.
- C. REMOVE AND REINSTALL EXISTING CEILING TILES WITHIN CONSTRUCTION AREAS AS REQUIRED.
- D. CONSTRUCTION SHALL BE PERFORMED IN PHASES. AVOID INTERRUPTION TO ANY SERVICES. GENERATOR POWER DISTRIBUTION SYSTEM SHALL BE OPERATIONAL AT ALL TIMES WHEN SCHOOL IS IN SESSION.
- E. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN HEAVY DASHED (---) SHALL BE REMOVED AND ELECTRICAL ITEMS SHOWN LIGHT SOLID (\_\_\_) SHALL REMAIN.
- F. DEMOLITION SHALL INCLUDE REMOVAL AND OFF-SITE DISPOSAL OF MATERIALS. DO NOT ABANDON IN PLACE ANY ELECTRICAL COMPONENTS UNLESS OTHERWISE NOTED ON DRAWINGS.
- G. WHERE EQUIPMENT IS NOTED "DISCONNECT" OR "REMOVE", REMOVE ASSOCIATED WIRE AND CONDUIT BACK TO SOURCE UNLESS OTHERWISE NOTED.
- H. REMOVE EXISTING EQUIPMENT AND DEVICES INDICATED, INCLUDING ASSOCIATED WIRE AND CONDUIT BACK TO SOURCE UNLESS OTHERWISE NOTED.
- I. EXISTING CIRCUITS INTERRUPTED BY DEMOLITION, BUT ARE TO REMAIN, SHALL BE MADE CONTINUOUS.

**SPECIFIC NOTES:**

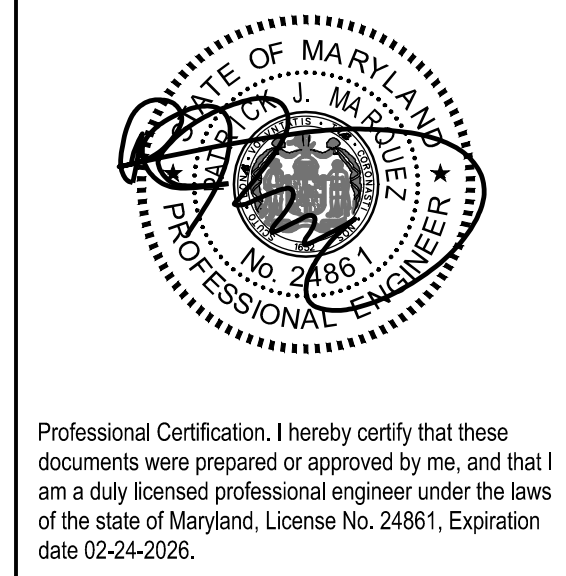
1. PROVIDE TYPE 10 GENERATOR PER NFPA 110. THE GENERATOR SHALL BE ABLE TO PROVIDE GENERATOR POWER TO THE SCHOOL WITHIN 10 SECONDS AFTER A UTILITY POWER OUTAGE.
2. PROVIDE GENERATOR CONCRETE PAD. REFER TO DETAIL 1E-1 FOR ADDITIONAL INFORMATION.
3. REFER TO DIAGRAM 3E-1 FOR GENERATOR GROUNDING.
4. PROVIDE GENERATOR CONTROL WIRING IN CONDUIT BETWEEN GENERATOR CONTROL PANEL AND ASSOCIATED AUTOMATIC TRANSFER SWITCHES. MAKE CONNECTIONS NECESSARY FOR COMPLETE INSTALLATION. GENERATOR CONTROL WIRING SHALL BE AS PER GENERATOR MANUFACTURER'S RECOMMENDATIONS.
5. PROVIDE WIRING IN CONDUIT FROM GENERATOR CONTROL PANEL TO GENERATOR REMOTE ALARM ANNUNCIATOR PANEL. WIRING SHALL BE AS PER GENERATOR MANUFACTURER'S RECOMMENDATIONS.
6. PROVIDE 3P-300A ELECTRONIC TRIP CIRCUIT BREAKER TO SERVE GENERATOR EMERGENCY LIFE SAFETY LOADS. MOUNT CIRCUIT BREAKER WITHIN GENERATOR ENCLOSURE AND MAKE CONNECTIONS. COORDINATE LOCATION OF CIRCUIT BREAKER WITH GENERATOR MANUFACTURER.
7. PROVIDE 3P-300A CIRCUIT BREAKER TO SERVE GENERATOR STANDBY LOADS. MOUNT CIRCUIT BREAKER WITHIN GENERATOR ENCLOSURE AND MAKE CONNECTIONS. COORDINATE LOCATION OF CIRCUIT BREAKER WITH GENERATOR MANUFACTURER.
8. PROVIDE 4 #300 + #2 GROUND IN 2" CONDUIT BETWEEN 3P-300A ELECTRONIC TRIP CIRCUIT BREAKER AT GENERATOR SERVING EMERGENCY LIFE SAFETY LOADS AND GENERATOR COOKING STATION. SIZES FOR LOAD BANK CONNECTION.
9. PROVIDE 300A GENERATOR DOCKING STATION IN NEMA TYPE 1R ENCLOSURE. EQUAL TO THYRISTOR CIRCUITS WITH TWO 3P-400A CIRCUIT BREAKERS. WIRING INTERLOCKED FOR CONNECTIONS TO ATS-1 AND PORTABLE MOBILE GENERATOR. FEEDER FOR LOAD BANK CONNECTION SHALL BE SIZED FOR 300A. PROVIDE 300A IN FRONT OF GENERATOR DOCKING STATION TO HEAD AS FOLLOWS: SERVING EMERGENCY TRANSFER SWITCH (ATS-1) IN BUILDING SERVICES, 1000V, 3PHASE, 4W/5W.
10. PROVIDE 4 #6 + #8 GROUND IN 2" CONDUIT. REFER TO DETAIL 7E-1 FOR GENERATOR DUCTBANK.
11. PROVIDE 4 #30 + #2 GROUND IN 2" CONDUIT. REFER TO DETAIL 7E-1 FOR GENERATOR DUCTBANK.
12. PROVIDE 4P-60A AUTOMATIC TRANSFER SWITCH (ATS) TO SERVE EMERGENCY LIFE SAFETY LOADS. ATS SHALL HAVE A MINIMUM UL 1008 WITHSTAND AND CLOSING RATING OF 65k AC. PROVIDE NAMEPLATE ON FRONT OF ATS TO READ "EMERGENCY ATS".
13. PROVIDE 4P-300A AUTOMATIC TRANSFER SWITCH (ATS) TO SERVE STANDBY LOADS. ATS SHALL HAVE A MINIMUM UL 1008 WITHSTAND AND CLOSING RATING OF 65k AC. PROVIDE NAMEPLATE ON FRONT OF ATS TO READ "STANDBY ATS".
14. PROVIDE 3P-600-400V NON-FUSED ENCLOSED SWITCH WITH NEUTRAL KIT IN NEMA TYPE 1 ENCLOSURE TO SERVE GENERATOR EMERGENCY LIFE SAFETY LOADS.
15. PROVIDE 3P-200-400V NON-FUSED ENCLOSED SWITCH WITH NEUTRAL KIT IN NEMA TYPE 1 ENCLOSURE TO SERVE GENERATOR STANDBY LOADS.
16. PROVIDE 3P-600-400V FUSED ENCLOSED SWITCH WITH NEUTRAL IN NEMA TYPE 1 ENCLOSURE. PROVIDE WITH 60A CURRENT-LIMITING FUSES.
17. PROVIDE 3P-200-400V FUSED ENCLOSED SWITCH WITH NEUTRAL IN NEMA TYPE 1 ENCLOSURE. PROVIDE WITH 60A CURRENT-LIMITING FUSES.
18. CHANGE PANEL DESIGNATION. PROVIDE NEW PANEL LABEL INDICATING "PANEL S2".
19. EXISTING SWITCHBOARD HAS (6) MAIN CIRCUIT BREAKERS. PROVIDE CONNECTION TO EXISTING 3P-200A MAIN CIRCUIT BREAKER. PREVIOUSLY SERVING EXISTING PANEL E.
20. EXISTING PANEL MDP1 IS BY GENERAL ELECTRIC, SPECTRA SERIES. DISCONNECT AND REMOVE EXISTING 3P-70A CIRCUIT BREAKER SERVING PANEL EN. MAKE SPARE DURING DEMOLITION WORK. PROVIDE 3P-40A CIRCUIT BREAKER IN ITS PLACE. TYPE AND AIC RATING OF CIRCUIT BREAKER TO MATCH EXISTING.
21. REFER TO SPECIFIC NOTE 3E-2 FOR ADDITIONAL INFORMATION.
22. REFER TO SPECIFIC NOTE 3E-2 FOR ADDITIONAL INFORMATION.



**1 POWER RISER DIAGRAM**  
 DEMOLITION  
 NOT TO SCALE



**2 POWER RISER DIAGRAM**  
 NEW WORK  
 NOT TO SCALE



Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland, License No. 24681, Expiration date 02-24-2026.

**James Posey Associates**  
 Engineering Your Vision

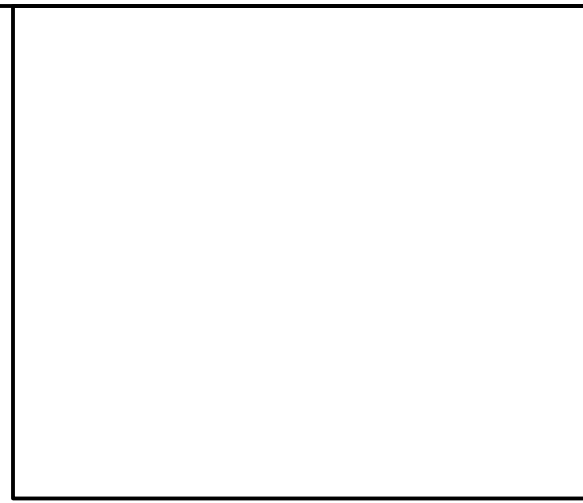
Mechanical & Electrical Consulting Engineers  
 11155 Red Run Boulevard, Suite 310  
 Baltimore, Maryland 21117  
 tel 410-265-6100  
 jamesposey.com

Tag	Description	Date
	BID SET	09/25/24

PSC No	
Scale	AS NOTED
Project No	7910-23
Date	SEPTEMBER 25, 2024
Drawing Title	POWER RISER DIAGRAMS

Sheet No:  
**E-12**





WIRING PANEL SCHEDULE E																	
120 / 208 VOLTS		3 PHASE 4 WIRE				100 AMP BUS				SURFACE MOUNTED							
CR- POLE CUT	DESCRIPTION	WIRE/ CONDUIT	FUSE POLE AMP	KVA / Ø			CR- POLE CUT	DESCRIPTION	WIRE/ CONDUIT	FUSE POLE AMP							
				AØ	BØ	CØ											
1	1	LTG BOILER RM, TOILETS SW	#12-3/4"	1	20	0.8	1.5		2	2	EM LTG SECTION 1 (2)	#10-3/4"	1	20			
3	3	LTG TOILETS SOUTH	#10-3/4"	1	20			1.3	0.2		4	4	FACP	#12-3/4"	1	20	
5	5	SPARE		1	20						6	6	SPARE		1	20	
7	7	SPARE		1	20						8	8	SPARE		1	20	
9	9	LTG MP, RM & MISC EMERG (2)	#12-3/4"	1	20			1.4	0.8		10	10	TIME CLOCK, EXT LTG (2)	#10-3/4"	1	20	
11	11	SPARE		1	20						12	12	SPARE		1	20	
13	13	SPARE		1	20			0.8			14	14	EXT LTG - SEC 3, EAST (2)	#10-3/4"	1	20	
15	15	SPARE		1	20						16	16	SPARE		1	20	
17	17	SPARE		1	20						18	18	SPARE		1	20	
19	19	RANGE HOOD FIRE PROT. (2)	#12-3/4"	1	20	0.2					20	20	SPARE		1	20	
21	21	SPARE		1	20						22	22	SPARE		1	20	
23	23	SPARE		1	20						24	24	SPARE		1	20	
25	25	SURGE PROTECTIVE DEVICE	4#8+ #8G- 3/4"	3	30		2.1				26	26	PANEL E2 (3)	4#4+ #4G- 1 1/4"	3	30	
27	27										28	28					
29	29										30	30					
CONNECTED LOAD =				13.7	KVA												
DEMAND LOAD =				13.7	KVA												
MIN AIC RATING =				42,000	AMPS SYMMETRICAL												
										MAIN FUSE		60	AMPS				
										LOCATION			STORAGE				

NOTES:  
 (1) PROVIDE FUSIBLE BRANCH CIRCUIT PANELBOARD.  
 (2) INTERCEPT & SPLICE EXISTING BRANCH CIRCUIT ABOVE PANELBOARD ENCLOSURE, PREVIOUSLY PANEL E. MATCH EXISTING WIRING AND CONDUIT AND EXTEND WIRING AND CONDUIT FROM NEW PANEL E TO EXISTING BRANCH CIRCUIT CONDUIT AND WIRING, UNLESS OTHERWISE NOTED.  
 (3) FEEDER IS SIZED FOR VOLTAGE DROP.

WIRING SCHEDULE: PANEL E2																	
120 / 208 VOLTS		3 PHASE 4 WIRE				100 AMP BUS				SURFACE MOUNTED							
CR- POLE CUT	DESCRIPTION	WIRE/ CONDUIT	FUSE POLE AMP	KVA / Ø			CR- POLE CUT	DESCRIPTION	WIRE/ CONDUIT	FUSE POLE AMP							
				AØ	BØ	CØ											
1	1	LTG TOILETS NORTH	#12-3/4"	1	20	1.5	0.6		2	2	EM LTG GYM	#10-3/4"	1	20			
3	3	LTG 2ND FLOOR ADDITION (2)	#10-3/4"	1	20		0.9	1.1		4	4	EM LTG 2ND FLOOR	#12-3/4"	1	20		
5	5	LTG 1ST FLOOR ADDITION (2)	#10-3/4"	1	20			1.4	1.4		6	6	EM LTG SECTION 2	#8-3/4"	1	20	
7	7	SPARE		1	20						8	8	SPARE		1	20	
9	9	SPARE		1	20						10	10	SPARE		1	20	
11	11	SPARE		1	20						12	12	SPARE		1	20	
13	13	SURGE PROTECTIVE DEVICE	4#8+ #8G- 3/4"	3	30						14	14	SPACE AND PROVISIONS		1	-	
15	15										16	16	SPACE AND PROVISIONS		1	-	
17	17										18	18	SPACE AND PROVISIONS		1	-	
CONNECTED LOAD =				6.9	KVA												
DEMAND LOAD =				6.9	KVA												
MIN AIC RATING =				10,000	AMPS SYMMETRICAL												
										MAIN FUSE		30	AMPS				
										LOCATION			STORAGE 137				

NOTES:  
 (1) PROVIDE FUSIBLE BRANCH CIRCUIT PANELBOARD.  
 (2) PROVIDE BREAKER TIE FOR LIGHTING CIRCUITS E-13 AND E-15, TO MATCH EXISTING.

WIRING SCHEDULE: PANEL S1																	
120 / 208 VOLTS		3 PHASE 4 WIRE				225 AMP BUS				SURFACE MOUNTED							
CR- POLE CUT	DESCRIPTION	WIRE/ CONDUIT	BREAKER POLE AMP	KVA / Ø			CR- POLE CUT	DESCRIPTION	WIRE/ CONDUIT	BREAKER POLE AMP							
				AØ	BØ	CØ											
1	1	REC HEALTH RM COUNTER (2)	(NOTE 2)	1	20	0.4			2	2	SPARE		1	20			
3	3	REC HEALTH RM REFRIG (2)	(NOTE 2)	1	20		0.5	0.4		4	4	REC SECURITY (2)	(NOTE 2)	1	20		
5	5	REC PA CONSOLE (2)	(NOTE 2)	1	20			0.5	0.4		6	6	REC SECURITY (2)	(NOTE 2)	1	20	
7	7	PUMP #8		3	20	1.3	0.4			8	8	REC TELE HEAD-END (2)	(NOTE 2)	1	20		
9	9							1.3			10	10	SPARE		1	20	
11	11								1.3	1.0	12	12	WALK-IN COOLER FAN	#12-3/4"	1	20	
13	13	SPARE		1	20			1.0			14	14	WALK-INS LTG, HEATER	#12-3/4"	1	20	
15	15	SMOKE DAMPER (2)	(NOTE 2)	1	20			0.1	1.0		16	16	FREEZER HEAT TAPE (3)	#12-3/4"	1	20	
17	17	RTU #1 ELEC HEATER (2)	(NOTE 2)	1	20				1.5	5.5	18	18	PUMP #1		3	90	
19	19	BOILER #1		3	20	0.3	5.5				20	20		#8G- 1 1/4"			
21	21							0.3	5.5		22	22					
23	23								0.3	1.2	24	24	PUMP #3		3	40	
25	25	BOILER #2		3	20	0.3	1.2				26	26		#10G- 3/4"			
27	27							0.3	1.2		28	28					
29	29									0.3	30	30	SPARE				
31	31	BATTERY CHARGER	#10-1"	1	20	0.5	0.4				32	32	OUTSIDE STORAGE SHED (2)	(NOTE 2)	1	20	
33	33	BLOCK HEATER	#10-1"	1	20		1.5	1.0			34	34	COOLER COMPRESSOR	3#12+ 12G- 3/4"	3	20	
35	35	REC BY GENERATOR	#10-3/4"	1	20			0.2	1.0		36	36					
37	37	PUMP #9	#12-3/4"	1	20	0.9	1.0				38	38					
39	39	PUMP #10	#12-3/4"	1	20		0.9	1.5			40	40	FREEZER COMPRESSOR	3#10+ 10G- 3/4"	3	30	
41	41	PUMP #2		3	90		5.5	1.5			42	42					
43	43						5.5	1.5			44	44					
45	45							5.5	1.0		46	46	REC - REACH-IN REFRIG (1)	#12-3/4"	1	20	
47	47	PUMP #4		3	20		1.2	0.5		48	48	REC - MILK COOLER (1)	#12-3/4"	1	20		
49	49						1.2	1.7			50	50	PANEL S2	4#8+ #10G- 1"	3	50	
51	51							1.2	1.0		52	52					
53	53	SPARE		3	20				0.5	-	54	54					
55	55										56	56	SPARE		1	20	
57	57										58	58	SPARE		1	20	
59	59	SPARE		2	20						60	60	SPARE		1	-	
61	61										62	62	SPACE AND PROVISIONS		1	-	
63	63	SPARE		1	20						64	64	SPACE AND PROVISIONS		1	-	
65	65	SPARE		1	20						66	66	SPACE AND PROVISIONS		1	-	
67	67	SPACE AND PROVISIONS		1	-						68	68	SPACE AND PROVISIONS		1	-	
69	69	SPACE AND PROVISIONS		1	-						70	70	SPACE AND PROVISIONS		1	-	
71	71	SPACE AND PROVISIONS		1	-						72	72	SPACE AND PROVISIONS		1	-	
CONNECTED LOAD =				69.7	KVA												
DEMAND LOAD =				49.6	KVA												
MIN AIC RATING =				42,000	AMPS SYMMETRICAL												
										MAIN BREAKER		200	AMPS				
										LOCATION			STORAGE				

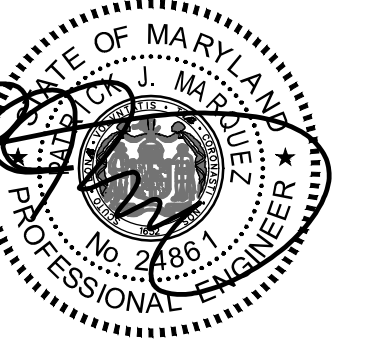
NOTES:  
 (1) PROVIDE GFCI-TYPE CIRCUIT BREAKER FOR PERSONNEL PROTECTION (8 mA).  
 (2) INTERCEPT & SPLICE EXISTING BRANCH CIRCUIT AT PANELBOARD ENCLOSURE, PREVIOUSLY PANEL E. TO BE USED AS A PULL BOX. MATCH EXISTING WIRING AND CONDUIT AND EXTEND WIRING AND CONDUIT FROM NEW PANEL E TO PANELBOARD ENCLOSURE.  
 (3) PROVIDE GFCI-TYPE CIRCUIT BREAKER FOR EQUIPMENT PROTECTION (30 mA).  
 4. PROVIDE PANELBOARD WITH INTEGRAL SURGE PROTECTION DEVICE.

WIRING SCHEDULE: EXISTING PANEL S2																	
120 / 208 VOLTS		3 PHASE 4 WIRE				100 AMP BUS				SURFACE MOUNTED							
CR- POLE CUT	DESCRIPTION	WIRE/ CONDUIT	BREAKER POLE AMP	KVA / Ø			CR- POLE CUT	DESCRIPTION	WIRE/ CONDUIT	BREAKER POLE AMP							
				AØ	BØ	CØ											
1	1	REC - SERVER RACK - 139 (3)	#10-3/4"	1	20	1.0			2	2	SPACE AND PROVISIONS		1	20			
3	3	REC - DATA RACK - 139 (3)	#10-3/4"	1	20		0.5	-		4	4	SPACE AND PROVISIONS		1	20		
5	5	REC - DATA RACK - 139 (3)	#10-3/4"	1	20			0.5	-		6	6	SPACE AND PROVISIONS		1	20	
7	7	REC - 139 (3)	#10-3/4"	1	20	0.5	-			8	8	SPACE AND PROVISIONS		1	20		
9	9	REC - 139 (3)	#10-3/4"	1	20		0.5	-		10	10	SPACE AND PROVISIONS		1	20		
11	11	SPACE AND PROVISIONS		1	-					12	12	SPACE AND PROVISIONS		1	20		
13	13	SPARE (2)		1	20		0.2			14	14	FACP	#12-3/4"	1	20		
15	15	SPARE (2)		1	20					16	16	SPACE AND PROVISIONS		1	-		
17	17	SPACE AND PROVISIONS		1	-					18	18	SPACE AND PROVISIONS		1	-		
19	19	SPACE AND PROVISIONS		1	-					20	20	SPACE AND PROVISIONS		1	-		
21	21	SPACE AND PROVISIONS		1	-					22	22	SPACE AND PROVISIONS		1	-		
23	23	SPACE AND PROVISIONS		1	-					24	24	SPACE AND PROVISIONS		1	-		
25	25	SPACE AND PROVISIONS		1	-					26	26	SPACE AND PROVISIONS		1	-		
27	27	SPACE AND PROVISIONS		1	-					28	28	SPACE AND PROVISIONS		1	-		
29	29	SPACE AND PROVISIONS		1	-					30	30	SPACE AND PROVISIONS		1	-		
CONNECTED LOAD =				3.2	KVA												
DEMAND LOAD =				3.2	KVA												
MIN AIC RATING =				ETR	AMPS SYMMETRICAL												
										MAIN BREAKER		50	AMPS				
										LOCATION			ELEC RM				

GENERAL NOTES:  
 A. LOADS INDICATED IN ITALICS ARE EXISTING TO REMAIN.  
 B. LOADS INDICATED IN BOLD ARE NEW.  
 EXISTING DEMAND LOAD = 0 KVA  
 ADDED DEMAND LOAD = 3.2 KVA  
 TOTAL DEMAND LOAD = 3.2 KVA  
 PANEL CAPACITY = 14.4 KVA

NOTES:  
 1. ETR PANELBOARD MANUFACTURED BY GE, TYPE A-SERIES 1, FED FROM 70A CIRCUIT BREAKER IN EXISTING PANEL MDP1.  
 2. EXISTING CIRCUIT BREAKER MADE SPARE DURING DEMOLITION WORK.  
 3. PROVIDE 1P-20A CIRCUIT BREAKER IN AVAILABLE SPACE AS INDICATED. TYPE AND AIC RATING OF CIRCUIT BREAKER TO MATCH EXISTING.

GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT  
**ROCK VIEW ELEMENTARY SCHOOL**  
 3901 DENFELD AVENUE  
 KENSINGTON, MD 20895  
 MONTGOMERY COUNTY PUBLIC SCHOOLS



Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland, License No. 2481, Expiration date 02-24-2026.

**James Posey Associates**  
 Engineering Your Vision

Mechanical & Electrical  
 Consulting Engineers  
 11155 Red Run Boulevard, Suite 310  
 Baltimore, Maryland 21117

tel 410-265-6100  
 jamesposey.com

Tag	Description	Date
	BID SET	09/25/24

PSC No.  
 Scale AS NOTED  
 Project No. 7910-23  
 Date SEPTEMBER 25, 2024

Drawing Title  
**SCHEDULES**

Sheet No.  
**E-13**