

Generator and Electrical Equipment Replacement

JOHN POOLE MIDDLE SCHOOL

17014 Tom Fox Avenue, Poolesville, MD 20837

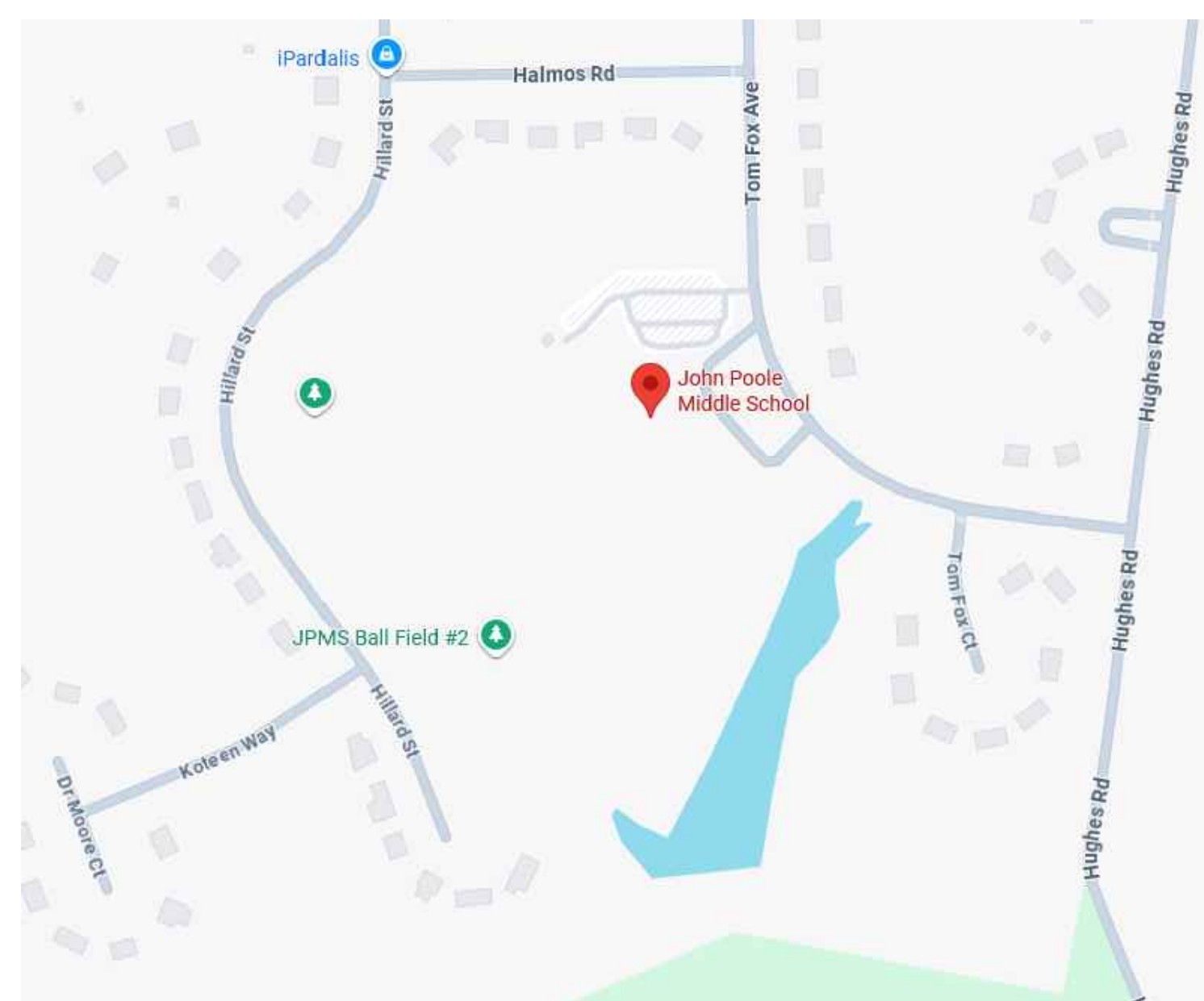
Montgomery County Public Schools

MECHANICAL AND ELECTRICAL ENGINEERS

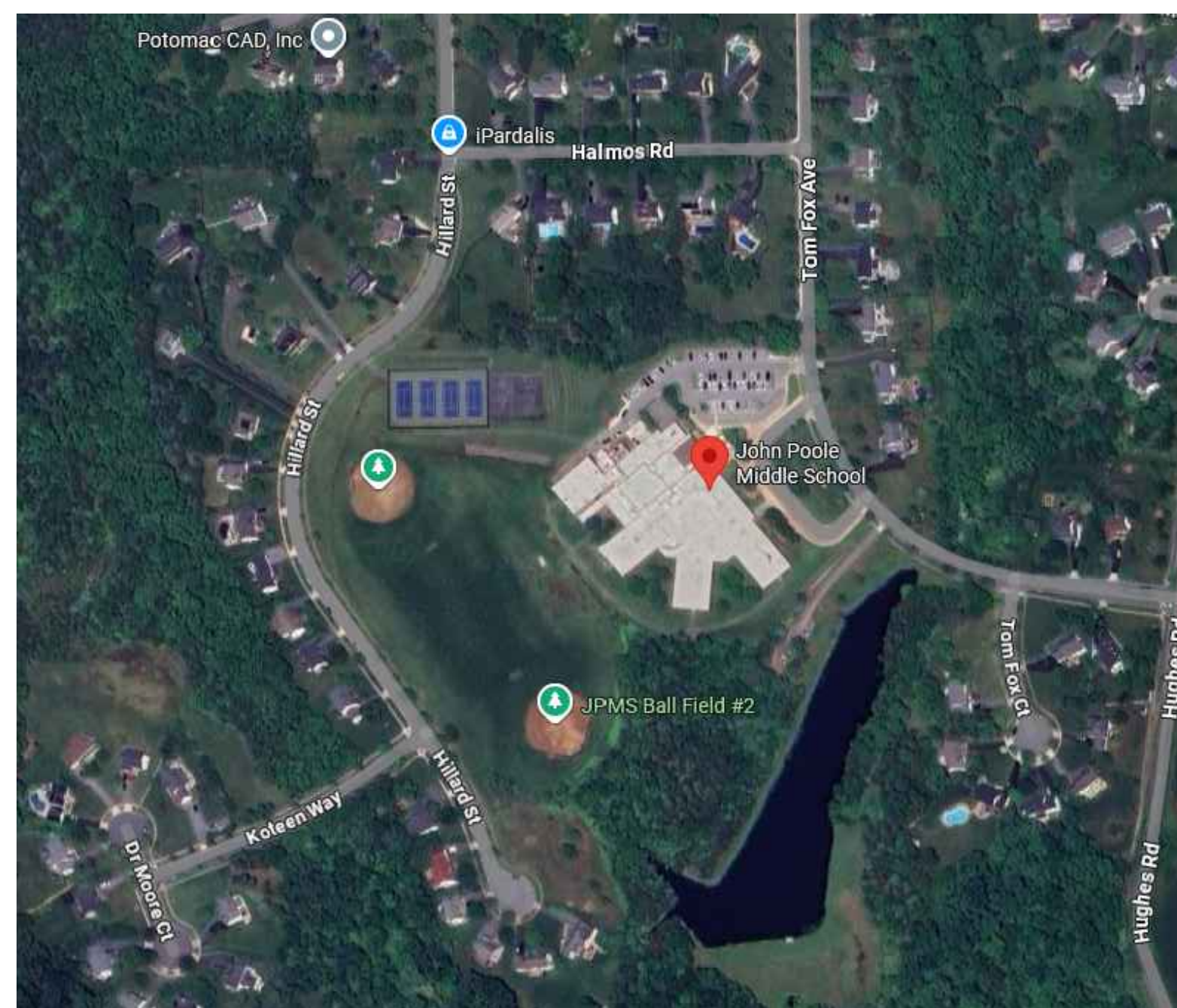
JAMES POSEY ASSOCIATES, INC.
11155 RED RUN BOULEVARD, SUITE 310
BALTIMORE, MARYLAND 21117
PHONE: 410.265.6100

GENERATOR AND EQUIPMENT REPLACEMENT
JOHN POOLE MIDDLE SCHOOL
17014 TOM FOX AVENUE
POOLESVILLE, MD 20837
MONTGOMERY COUNTY PUBLIC SCHOOLS

VICINITY PLAN



AERIAL SITE PLAN



DRAWING INDEX

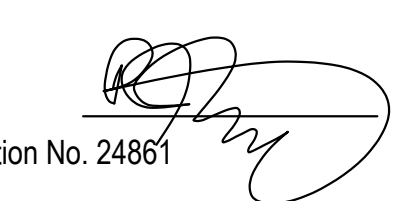
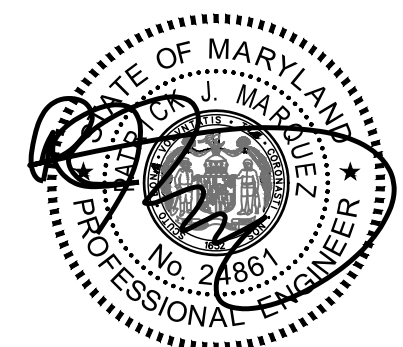
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PROFESSIONAL CERTIFICATION

These contract documents for John Poole Middle 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.

04/23/26 (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: 02-24-2028.

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.
- 2017 NEC: NATIONAL ELECTRICAL CODE
- ASHRAE 2017-2020 HANDBOOKS.

James Posey Associates
Engineering Your Vision

Mechanical & Electrical Consulting Engineers

11155 Red Run Boulevard, Suite 310
Baltimore, Maryland 21117
tel 410-265-6100
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BOARD OF EDUCATION

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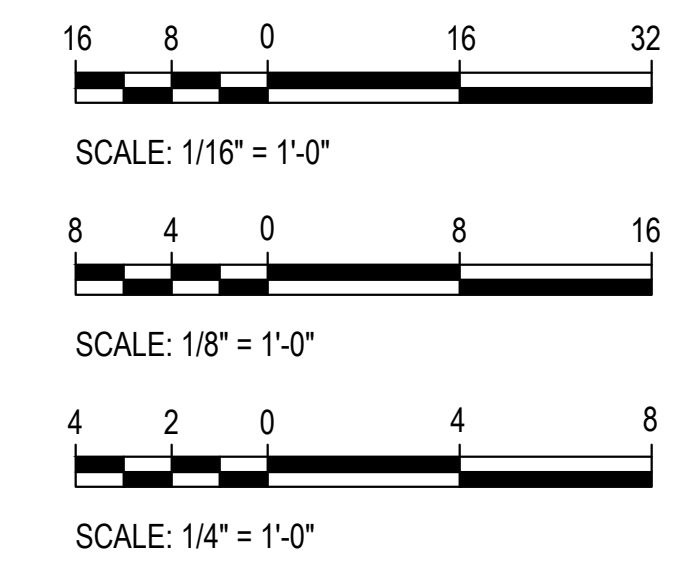
CODE ANALYSIS

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.
TYPE OF CONSTRUCTION	IIB	THERE IS NO INCREASE IN FLOOR AREA. NO SITE CHANGES, NO CHANGE IN CLASSIFICATION OR TYPE OF CONSTRUCTION.
NUMBER OF STORIES ABOVE GRADE	2	
HIGH RISE (Y/N)	N	
FIRE ALARM (Y/N)	Y	
FULLY SPRINKLERED (Y/N)	Y	
TOTAL BUILDING FLOOR AREA	85,669 SF	

SCOPE OF WORK

- SCOPE OF WORK GENERALLY CONSISTS OF THE FOLLOWING:
- * REMOVE EXISTING GENERATOR AND ASSOCIATED GAS PIPING AND EQUIPMENT.
 - * PROVIDE CONDUITS AND RACEWAYS FOR NEW GENERATOR.
 - * PROVIDE CONDUITS AND RACEWAYS FOR NEW DEVICES AND CONNECTIONS TO EXISTING EQUIPMENT.
 - * 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.
 - * PROVIDE NEW GENERATOR AND ASSOCIATED GAS PIPING AND 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.

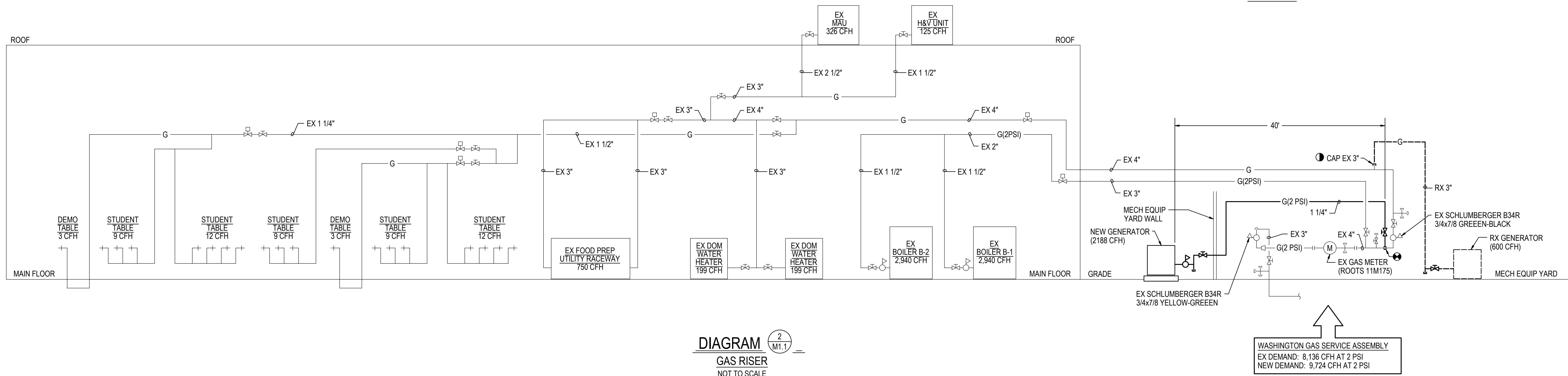
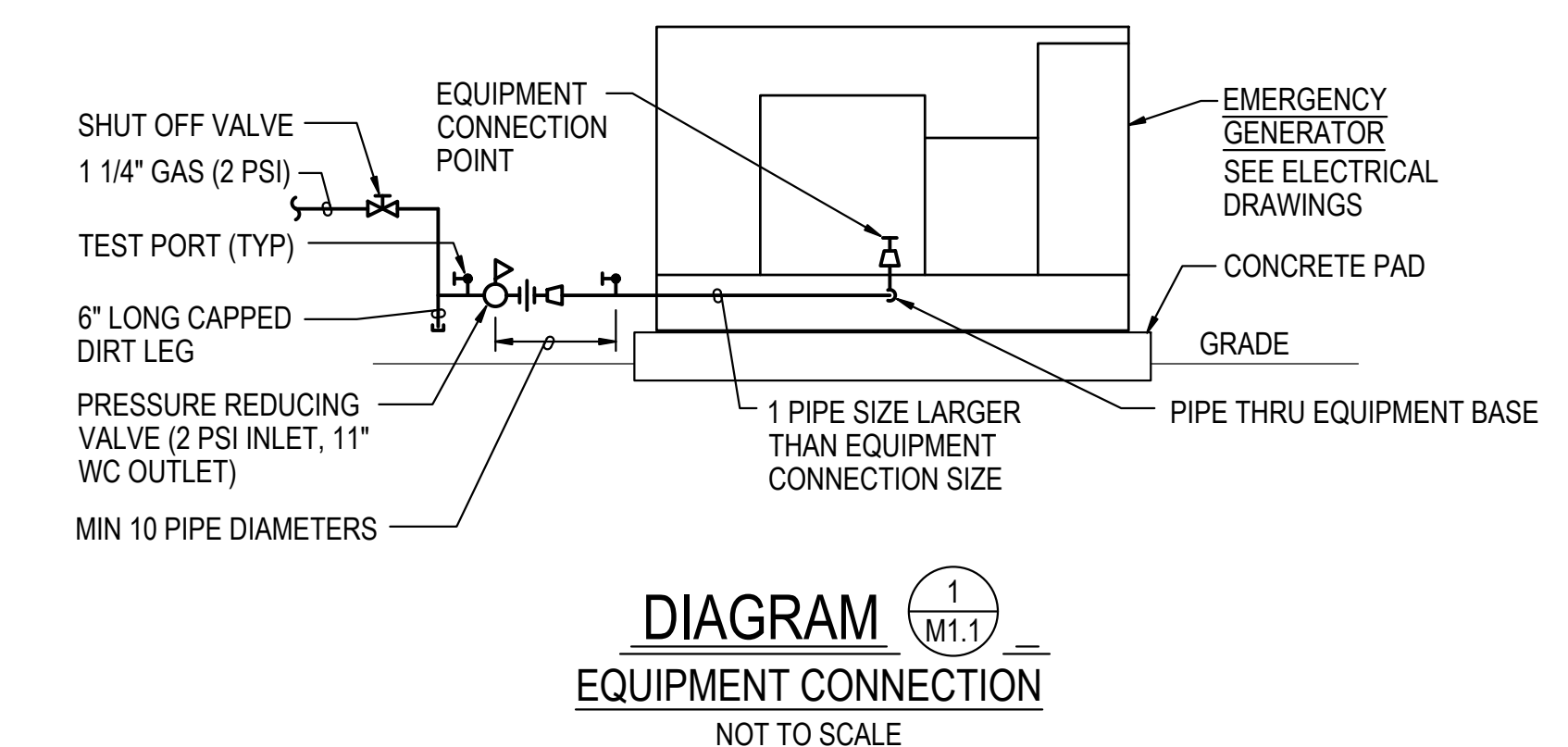
Tag	Description	Date
	BID SET	4/23/26

Scale	AS NOTED
Project No.	8241-25
Date	APRIL 23, 2026

Drawing Title
TITLE SHEET

Drawing No.:
T1.0

MECHANICAL SYMBOLS AND ABBREVIATIONS			
— G —	LOW PRESSURE GAS PIPE	∅	INDICATES DIAMETER
— G (2 PSI) —	MEDIUM PRESSURE GAS PIPE	A/D	ACCESS DOOR
— S —	SPRINKLER PIPE	AAV	AUTOMATIC AIR VENT
— E —	PIPE CAP OR PLUG	ABV	ABOVE
— U —	UNION	AFF	ABOVE FINISHED FLOOR
— V —	SHUT-OFF VALVE	BLDG	BUILDING
— SV —	SOLENOID VALVE	BLW	BELOW
— PR —	PRESSURE REDUCING / REGULATING VALVE	BTUH	BRITISH THERMAL UNITS PER HOUR
— M —	METER	CFH	CUBIC FEET PER HOUR
— GCP —	GAUGE COCK / TEST PORT	CFM	CUBIC FEET PER MINUTE
— CR —	CONCENTRIC REDUCER	CLG	CEILING
— ER —	ECCENTRIC REDUCER	CONC	CONCRETE
— FA —	FLOW DIRECTION ARROW	CW	DOMESTIC COLD WATER PIPE
— ST —	STRAINER	DIA	DIAMETER
— SP —	SPRINKLER	EA	EXHAUST AIR
— PC —	POINT OF CONNECTION, NEW TO EXISTING	ETR	EXISTING TO REMAIN
— DT —	DEMOLITION WORK TERMINATION POINT	EX	EXISTING
— SN —	SYMBOL FOR SPECIFIC NOTE, NOTE APPLIES TO DRAWING ON WHICH IT OCCURS.	EXH	EXHAUST
— 3 M1.1 —	DETAIL OR DIAGRAM NO. 3 SHOWN ON DRAWING M1.1	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



ABOVE GROUND PIPE: SCHEDULE 40 STEEL PIPE
 PIPE REGULATORS PER IPC 2015 408 AND 410.2.
 VENT REGULATORS PER 410.3



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: 01-16-2027.



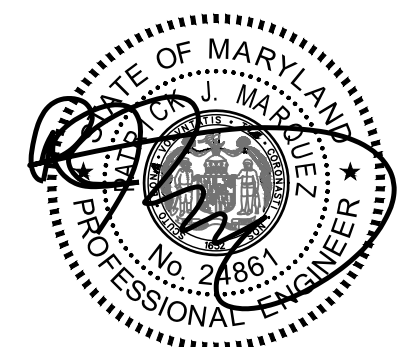
Mechanical & Electrical Consulting Engineers
 1155 Red Run Boulevard, Suite 310
 Baltimore, Maryland 21117
 tel 410-265-6100
 jamesposey.com

Tag	Description	Date
	BID SET	4/23/26

Scale	AS NOTED
Project No.	8241-25
Date	APRIL 23, 2026

Drawing Title
DIAGRAMS, SYMBOLS AND ABBREVIATIONS

Drawing No.:
M1.1



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. 24651. Expiration date: 02-24-2028.

James Posey Associates
 Engineering Your Vision
 Mechanical & Electrical Consulting Engineers
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 tel 410-265-6100
 jamesposey.com

Tag	Description	Date
	BID SET	4/23/26

Scale: AS NOTED
 Project No.: 8241-25
 Date: APRIL 23, 2026

Drawing Title:
SYMBOLS LIST, ABBREVIATIONS, DETAILS AND DIAGRAMS

Drawing No.:
E1.0

ELECTRICAL SYMBOLS AND ABBREVIATIONS

GENERAL

① DENOTES REFERENCE TO SPECIFIC NOTE ON DRAWING.
 (E1.0) DETAIL, DIAGRAM OR PLAN NUMBER
 #/E-# DETAIL, DIAGRAM OR PLAN REFERENCE: DETAIL, DIAGRAM OR PLAN NUMBER/DRAWING NUMBER

NOTES:

A. PROVIDE DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT.
 B. PROVIDE RIGID GALVANIZED STEEL (RGS) CONDUIT ELBOWS WHERE CONDUIT IS STUBBED UP THROUGH CONCRETE SLAB OR WHERE PENETRATING FLOOR SLABS.
 C. THE EXISTING BUILDING ELECTRICAL SYSTEM WILL REMAIN IN OPERATION DURING RENOVATION. INTERRUPTION TO THE EXISTING BUILDING ELECTRICAL SERVICE SHALL BE COORDINATED WITH THE USER TO MINIMIZE DISRUPTION. INTERRUPTION OF UTILITIES SHALL NOT OCCUR DURING SCHOOL WORK HOURS.

DEMOLITION

--- DISCONNECT AND REMOVE EXISTING WIRING IN CONDUIT.
 DISCONNECT AND REMOVE EXISTING HOMERUN WIRING IN CONDUIT BACK TO SOURCE.
 DISCONNECT AND REMOVE EXISTING PANELBOARD AS NOTED.
 DISCONNECT AND REMOVE EXISTING AUTOMATIC TRANSFER SWITCH.
 DISCONNECT AND REMOVE EXISTING TRANSFORMER AS NOTED.

EXISTING

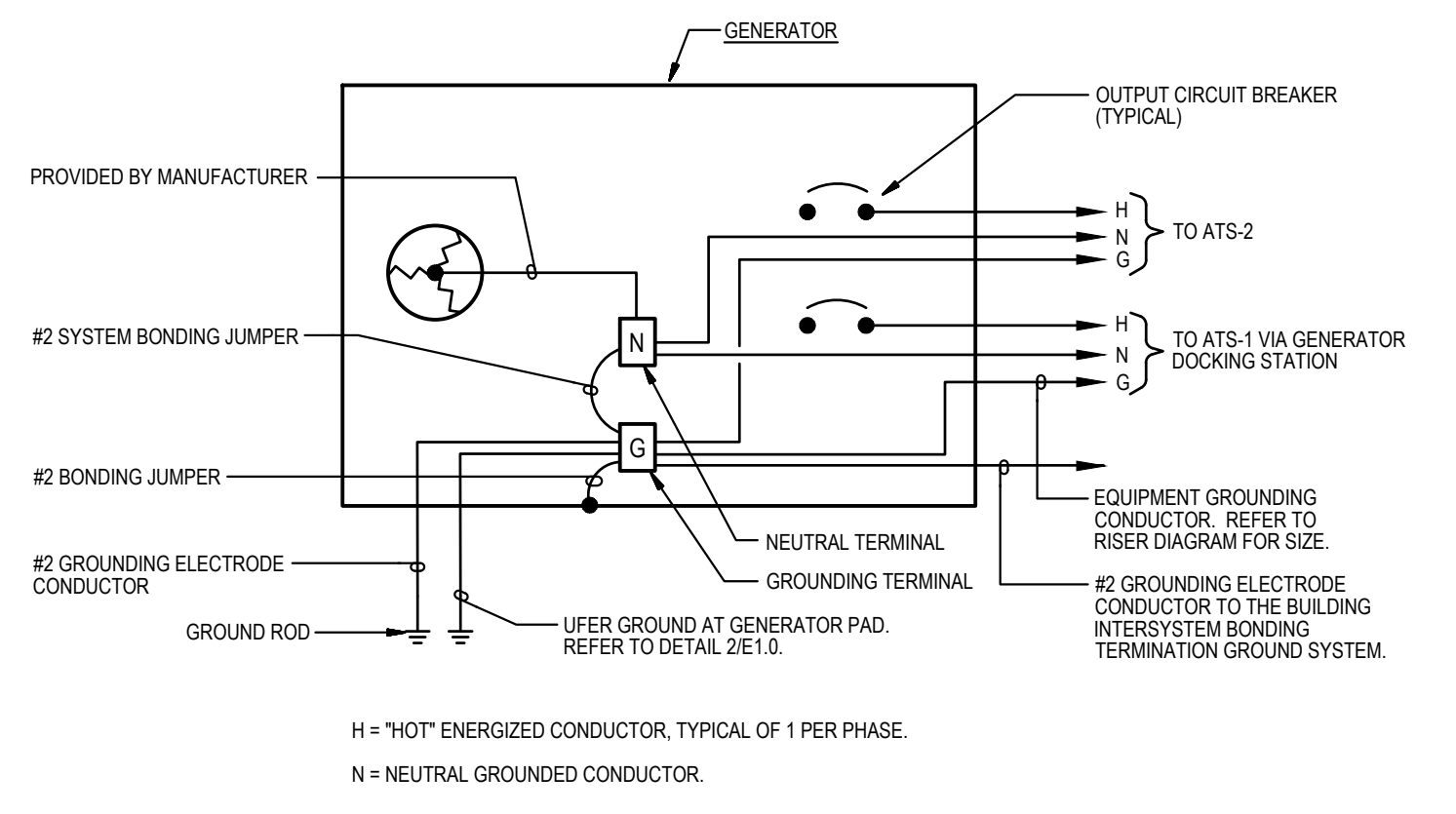
EXISTING TO REMAIN CEILING OUTLET AND LIGHTING FIXTURE.
 EXISTING TO REMAIN CEILING OUTLET AND LIGHTING FIXTURE ON NORMAL POWER CIRCUIT AND CHANGED TO GENERATOR POWER CIRCUIT.
 EXISTING TO REMAIN WALL MOUNTED SWITCH.
 EXISTING TO REMAIN 120/208V PANELBOARD AS INDICATED, SURFACE OR RECESSED MOUNTED.
 EXISTING TO REMAIN 277/480V PANELBOARD AS INDICATED, SURFACE MOUNTED.
 EXISTING TO REMAIN EQUIPMENT AS INDICATED.
 EXISTING TO REMAIN WIRING IN CONDUIT.
 EXISTING TO REMAIN WIRING IN CONDUIT CONTINUED.
 EXISTING TO REMAIN HOMERUN WIRING IN CONDUIT BACK TO SOURCE.
 EXISTING MOTOR CONNECTION TO BE RECONNECTED WHERE INDICATED.
 EXISTING EQUIPMENT CONNECTION TO BE RECONNECTED WHERE INDICATED.
 EXISTING TO REMAIN ENCLOSED SWITCH (DISCONNECT/SAFETY SWITCH).
 EXISTING TO REMAIN DUPLEX RECEPTACLE. MOUNTED AT 18" OR 48" AS INDICATED.
 EXISTING TO REMAIN DOUBLE DUPLEX (QUAD) RECEPTACLE. MOUNTED AT 18" OR 48" AS INDICATED.

POWER

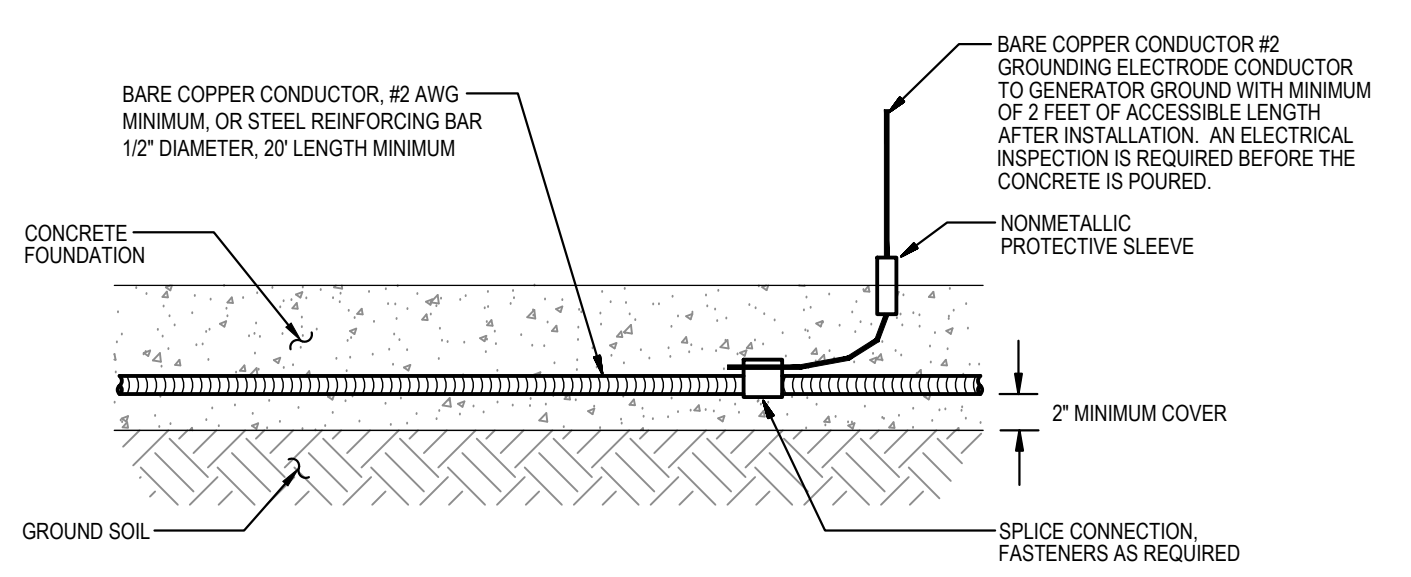
HOMERUN TO PANELBOARD. NUMBER OF HASH MARKS INDICATES NUMBER OF WIRES PLUS GROUND WIRE IN CONDUITS.
 HOMERUN TO PANELBOARD. RUN BELOW GRADE. NUMBER OF HASH MARKS INDICATES NUMBER OF WIRES PLUS GROUND WIRE. REFER TO PANEL SCHEDULES FOR CONDUCTOR SIZES. PROVIDE GROUND WIRES IN CONDUITS.
 WIRING IN CONDUIT RUN CONCEALED IN CEILING SPACE ABOVE CEILINGS AND EXPOSED IN OPEN CEILINGS, UNLESS OTHERWISE NOTED. PROVIDE GROUND WIRES IN CONDUITS.
 WIRING IN CONDUIT RUN BELOW GRADE.
 WIRING IN CONDUIT CONTINUED.
 JUNCTION BOX WITH BLANK COVER PLATE.
 ELECTRIC PANELBOARD (120/208V), SURFACE MOUNTED.
 ELECTRIC PANELBOARD (277/480V), SURFACE MOUNTED.
 EQUIPMENT CABINET OR PULLBOX AS NOTED.
 AUTOMATIC TRANSFER SWITCH.
 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.
 HARD-WIRED ELECTRICAL CONNECTION. CONNECT TO EQUIPMENT AS NOTED.
 SURGE PROTECTIVE DEVICE IN NEMA TYPE 1 ENCLOSURE.
 TAMPER-RESISTANT DUPLEX RECEPTACLE (NEMA 5-20R) ON GENERATOR STANDBY POWER CIRCUIT. SURFACE WALL-MOUNTED 48" ABOVE FLOOR TO TOP OF BOX. RECEPTACLES DESIGNATED WITH A "G" SHALL BE GFCI TYPE. RECEPTACLES DESIGNATED WITH AN "H" SHALL BE HOSPITAL GRADE TYPE AND GFCI TYPE. RECEPTACLES DESIGNATED WITH A "WP" SHALL BE WEATHER-RESISTANT AND GFCI TYPE RECEPTACLE WITH WEATHERPROOF WHILE-IN-USE COVER.
 TAMPER-RESISTANT DOUBLE-DUPLEX QUAD RECEPTACLE (NEMA 5-20R) ON GENERATOR STANDBY POWER CIRCUIT, SURFACE WALL-MOUNTED 48" ABOVE FLOOR TO TOP OF BOX.

FIRE DETECTION AND ALARM

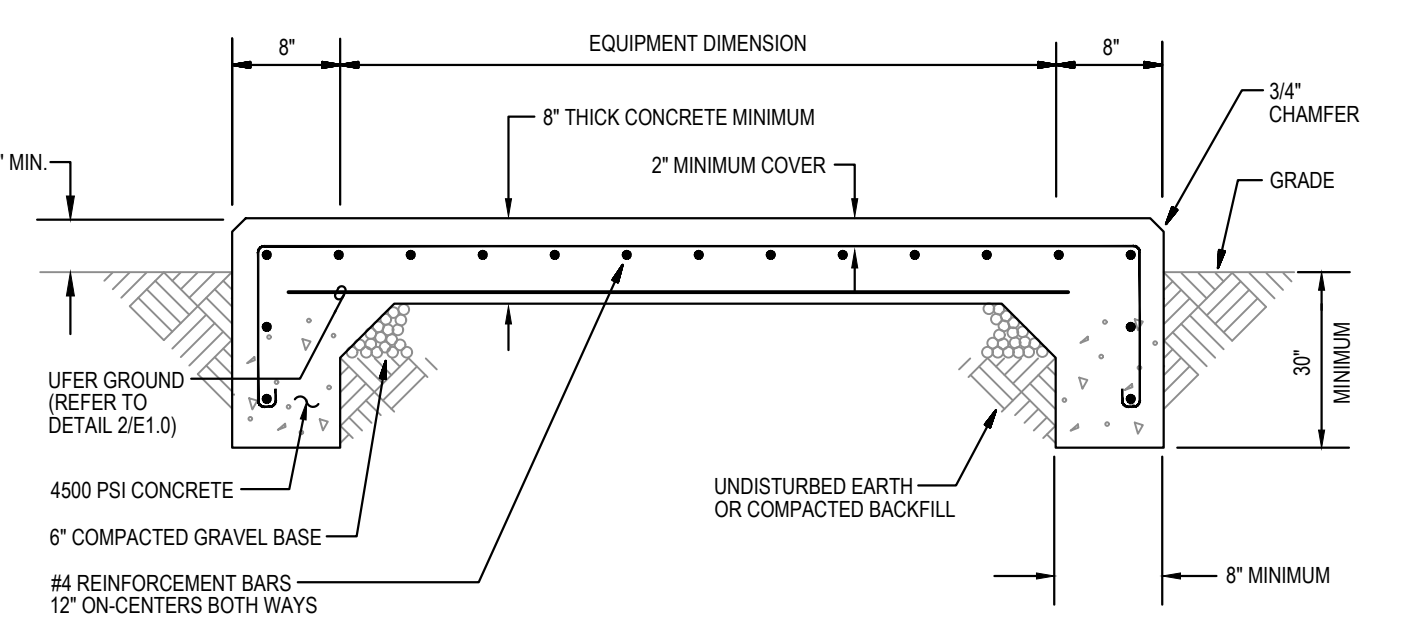
MONITOR MODULE, COMPATIBLE WITH EXISTING FIRE DETECTION AND ALARM SYSTEM. PROVIDE WIRING IN CONDUIT TO NEAREST EXISTING FIRE DETECTION SIGNALING LINE CIRCUIT (SLC) AND MAKE CONNECTIONS. WIRING SHALL BE PER FIRE DETECTION AND ALARM SYSTEM MANUFACTURER'S RECOMMENDATIONS. PROVIDE ADDITIONAL PROGRAMMING AT FIRE ALARM CONTROL PANEL AS REQUIRED.



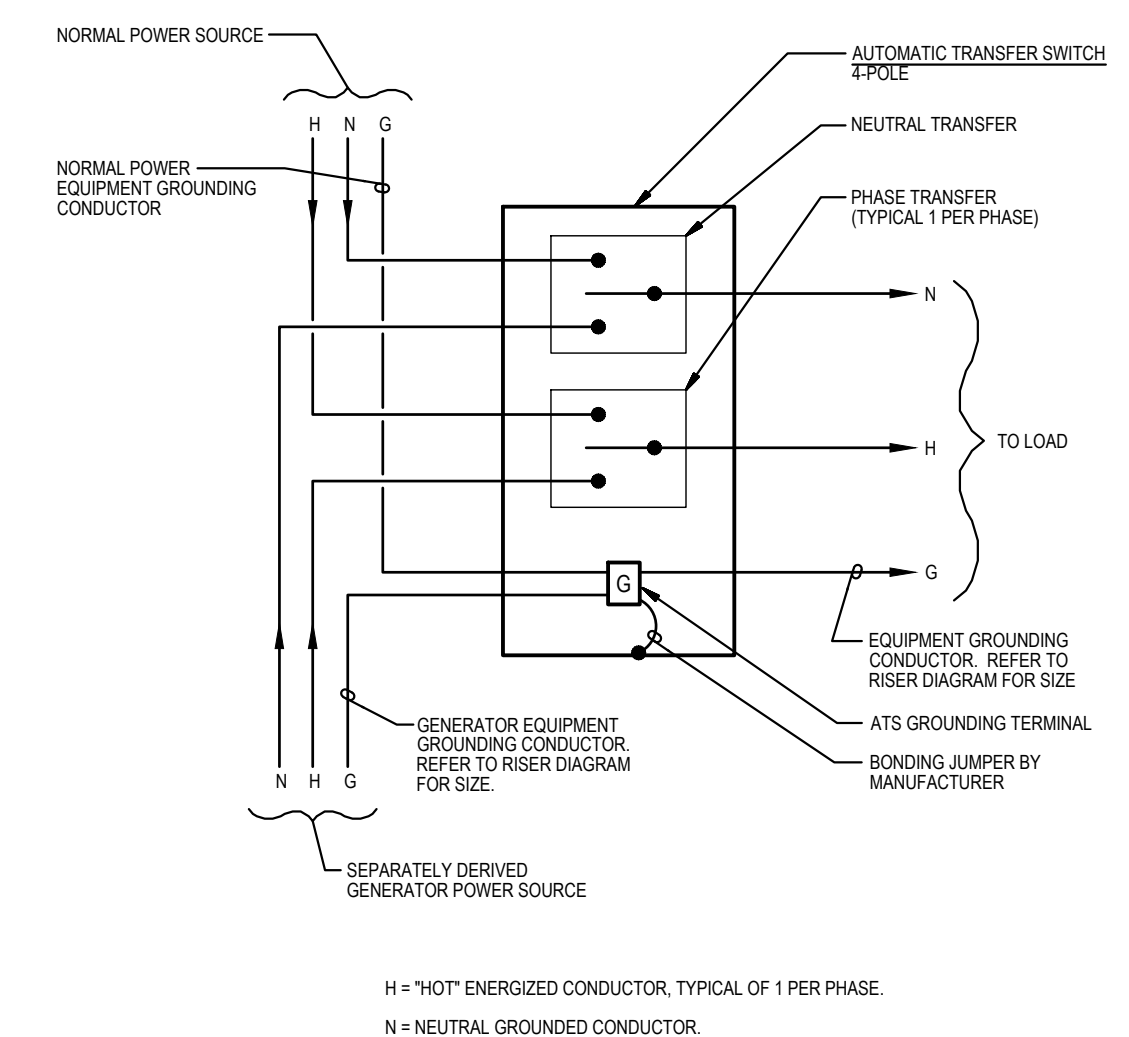
3 DIAGRAM
 E1.0 GENERATOR GROUNDING WIRING
 NOT TO SCALE



2 DETAIL
 E1.0 TYPICAL UFER GROUND
 NOT TO SCALE



1 DETAIL
 E1.0 GENERATOR CONCRETE PAD
 NOT TO SCALE



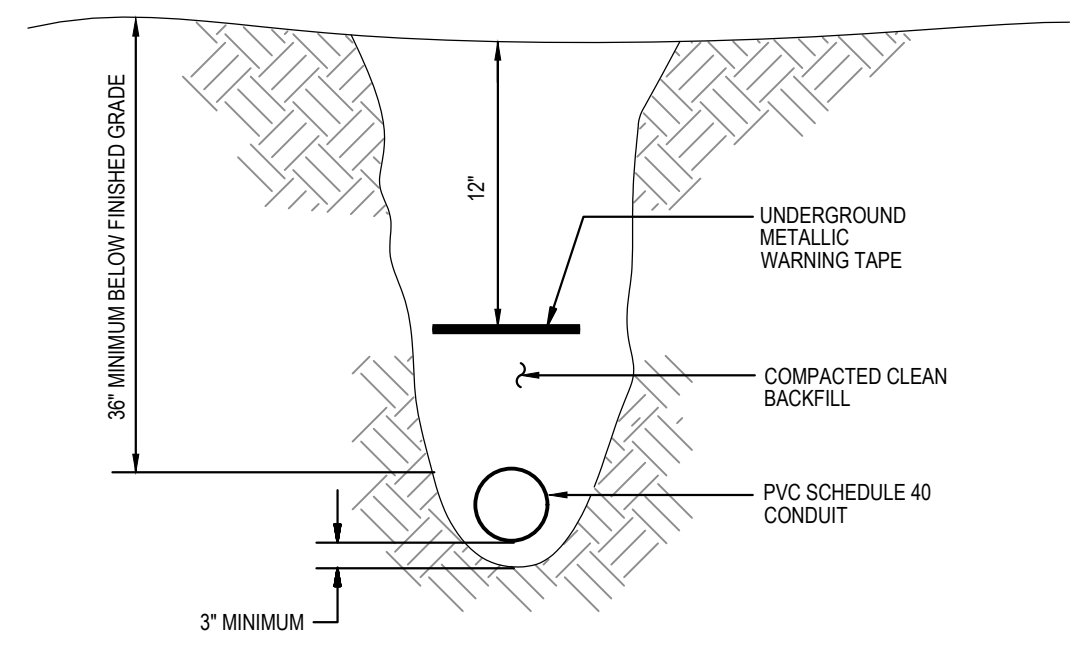
4 DIAGRAM
 E1.0 AUTOMATIC TRANSFER SWITCH GROUND WIRING
 NOT TO SCALE

EMERGENCY AND STANDBY POWER
 180KW, 277/480 VOLTS, 3-PHASE, 4-WIRE
 NATURAL GAS GENERATOR
 LOCATED OUTDOORS
 NORTHEAST ON OTHER SIDE OF
 MECHANICAL COURTYARD

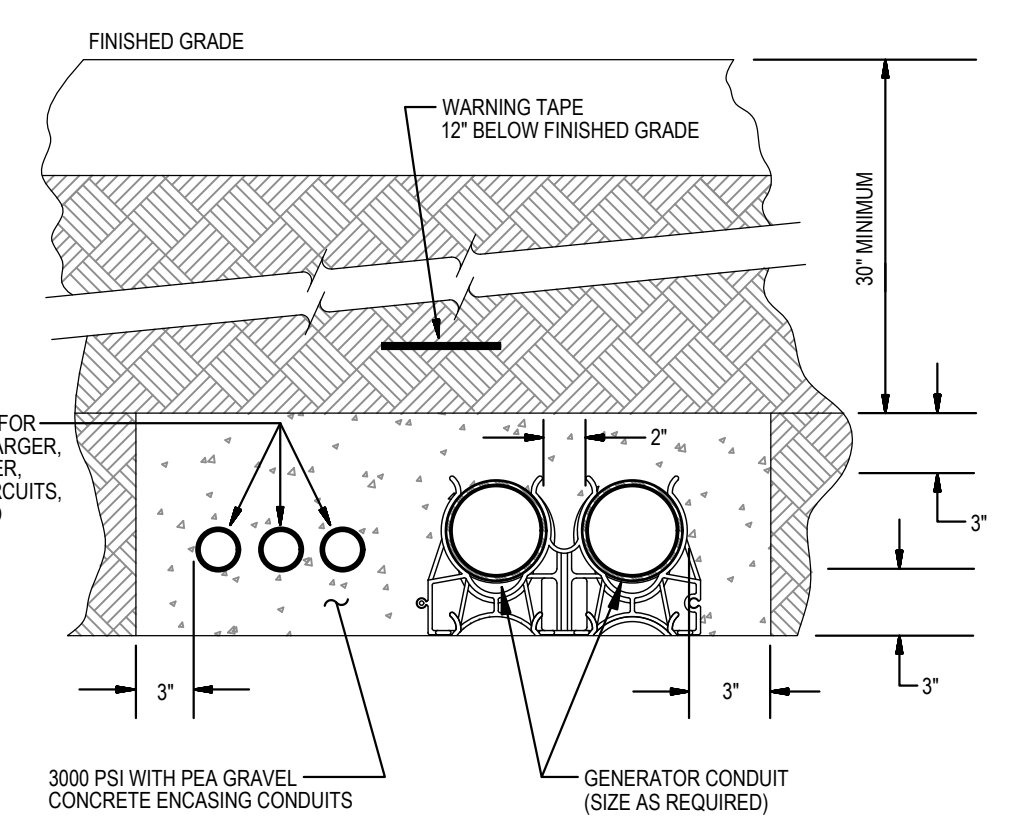
5 DETAIL
 E1.0 PLACARD AT MAIN SERVICE
 NOT TO SCALE

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 DETAIL
 E1.0 PLACARD AT GENERATOR DOCKING STATION
 NOT TO SCALE

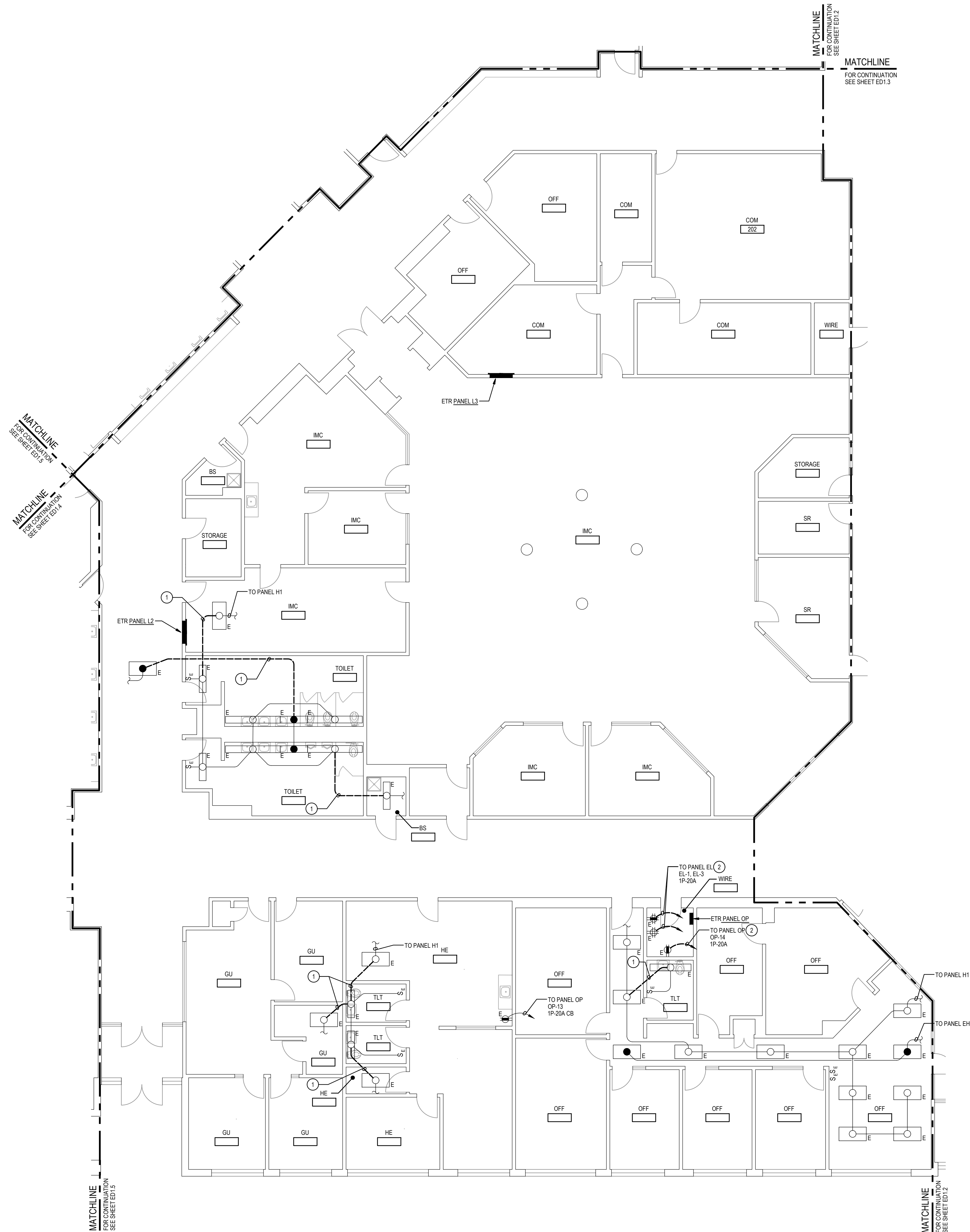


8 DETAIL
 E1.0 DIRECTLY-BURIED CONDUIT
 NOT TO SCALE



7 DETAIL
 E1.0 GENERATOR DUCTBANK
 NOT TO SCALE

ABBREVIATIONS				
A	AMP	AMPERE(S)	LTG	LIGHTING
AIC	AMPERES INTERRUPTING CAPACITY		MCPS	MONTGOMERY COUNTY PUBLIC SCHOOLS
ATC	AUTOMATIC TEMPERATURE CONTROL		MIN	MINIMUM
ATS	AUTOMATIC TRANSFER SWITCH		N	NEUTRAL
BAS	BUILDING AUTOMATION SYSTEM		NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
BS.	BUILDING SERVICES		NO.	NEUTRAL
C	CONDUIT		P	POLE(S) OR PUMP
CB	CIRCUIT BREAKER		PA	PUBLIC ADDRESS
CR	CLASSROOM		PH	PHASE
DIST	DISTRIBUTION		PSI	POUNDS PER SQUARE INCH
E	EXISTING		PVC	POLYVINYL CHLORIDE
EM	EMERGENCY		REC	RECEPTACLE
ERRC	EMERGENCY RESPONDER		RX	REMOVE EXISTING
	RADIO COVERAGE		SR	SUPPORT ROOM
ETR	EXISTING TO REMAIN		STO	STORAGE ROOM
EX	EXISTING		TLT	TOILET
G	GROUND, GFCI (RECEPTACLE)		V	VOLT(S)
GFCI	GROUND FAULT CIRCUIT INTERRUPTER		W	WIRE(S)
GU	GUIDANCE		WP	WEATHERPROOF AND WEATHER-RESISTANT
H	HOT		XFMR	TRANSFORMER
HE	HEALTH			
HP	HORSEPOWER			
IMC	INSTRUCTIONAL MEDIA CENTER			
KVA	KILOVOLT-AMPERES			
KW	KILOWATTS			

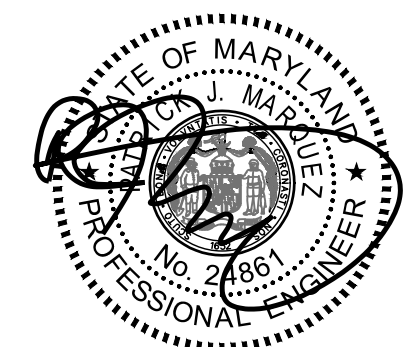


1 PART MAIN FLOOR PLAN - DEMOLITION
 ED1.1 SCALE: 1/8"=1'-0"

- 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 VERIFY IN FIELD THAT EXISTING CIRCUITING IS AS SHOWN, AND DEMOLISH CIRCUITING AS SHOWN TO ISOLATE TOILET LIGHTING FIXTURES.
 - 2 REMOVE EXISTING HOMERUN BACK TO SOURCE PANEL. RELABEL CIRCUIT BREAKER AS "SPARE". RETAIN EXISTING RECEPTACLE AND RACEWAY FOR CONNECTION TO NEW STANDBY POWER CIRCUIT.

GENERATOR AND EQUIPMENT REPLACEMENT
JOHN POOLE MIDDLE SCHOOL
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 POOLESVILLE, MD 20837
 MONTGOMERY COUNTY PUBLIC SCHOOLS

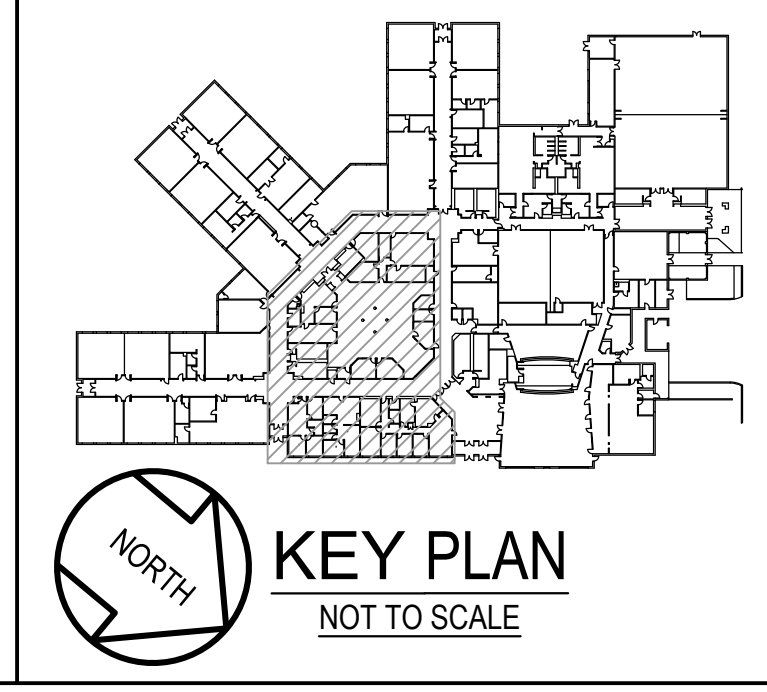


Professional Certification:
 I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland, License No. 24551, Expiration date: 02-24-2028.

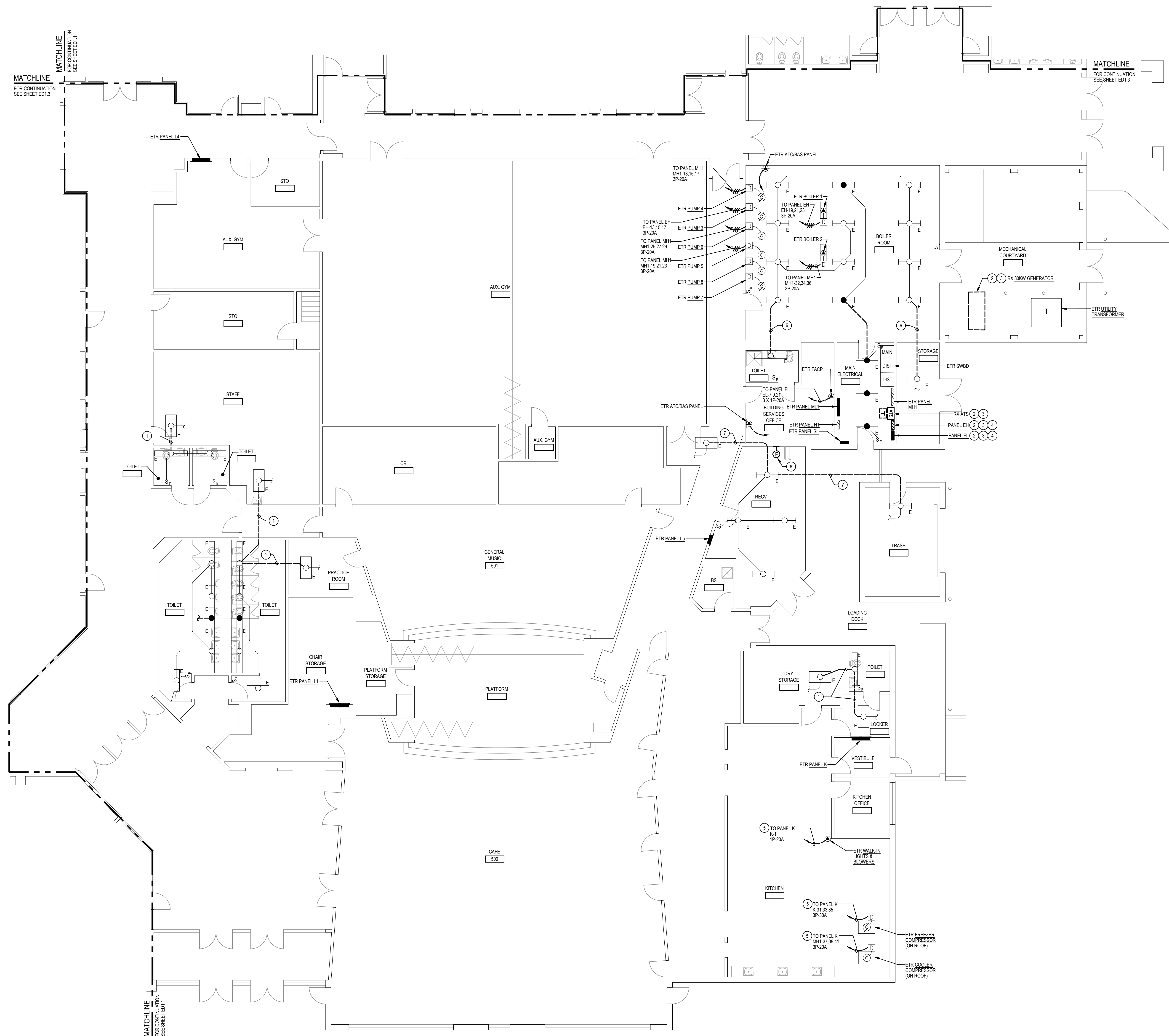
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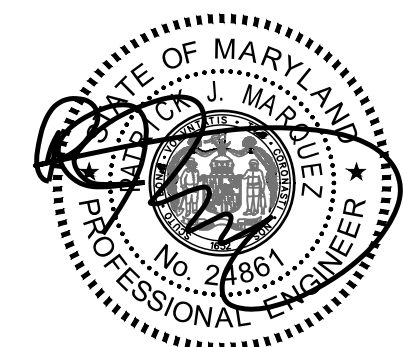
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Date	APRIL 23, 2026
Drawing Title	PART MAIN FLOOR PLAN - DEMOLITION
Drawing No.:	ED1.1



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 - 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:**
- VERIFY IN FIELD THAT EXISTING CIRCUITING IS AS SHOWN, AND DEMOLISH CIRCUITING AS SHOWN TO ISOLATE TOILET LIGHTING FIXTURES.
 - REFER TO PART POWER RISER DIAGRAMS ON DRAWING E2.0 FOR ADDITIONAL INFORMATION.
 - 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. REMOVE EXISTING PANEL BUSBARS, AND CIRCUIT BREAKERS. RETAIN EXISTING PANEL ENCLOSURE TO BE REUSED AS A PULLBOX. EXISTING EMERGENCY CIRCUITS SHALL REMAIN TO BE SERVED BY NEW EMERGENCY PANEL. EXISTING STANDBY CIRCUITS WILL BE RECONNECTED OUTSIDE OF EXISTING ENCLOSURE TO NEW STANDBY PANEL.
 - REMOVE EXISTING HOMERUN BACK TO SOURCE PANEL. RELABEL CIRCUIT BREAKER AS SPARE.
 - VERIFY IN FIELD THAT EXISTING CIRCUITING IS AS SHOWN, AND DEMOLISH CIRCUITING AS SHOWN TO ISOLATE BOILER ROOM LIGHTING FIXTURES.
 - VERIFY IN FIELD THAT EXISTING CIRCUITING IS AS SHOWN, AND DEMOLISH CIRCUITING AS SHOWN TO ISOLATE RECEIVING ROOM LIGHTING FIXTURES.
 - REMOVE AND RETAIN EXISTING FIRE ALARM NOTIFICATION DEVICE. DEVICE TO BE RELOCATED TO NEW LOCATION IN ROOM.

1 PART MAIN FLOOR PLAN - DEMOLITION
ED1.2 SCALE: 1/8"=1'-0"

GENERATOR AND EQUIPMENT REPLACEMENT
JOHN POOLE MIDDLE SCHOOL
17014 TOM FOX AVENUE
POOLESVILLE, MD 20837
MONTGOMERY COUNTY PUBLIC SCHOOLS

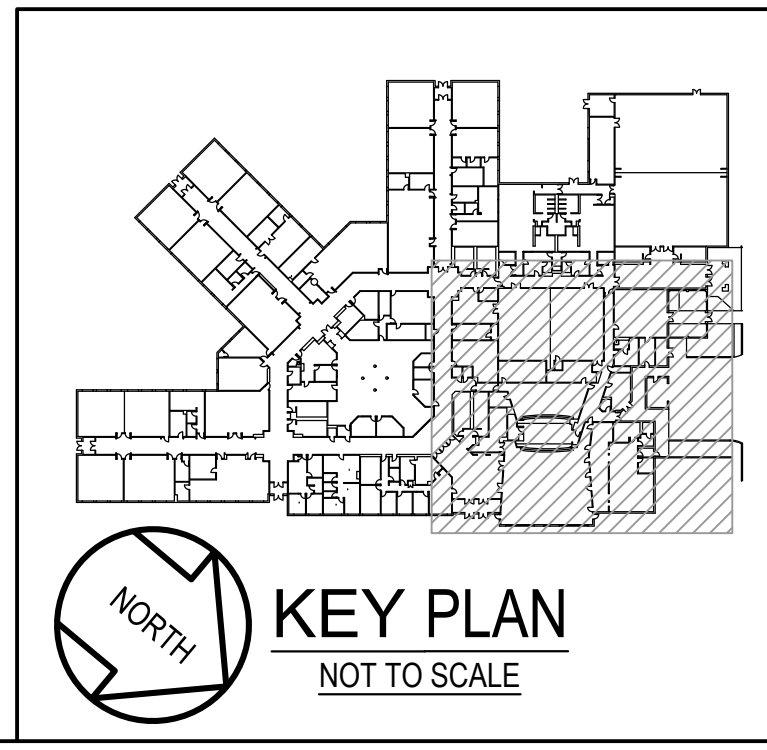


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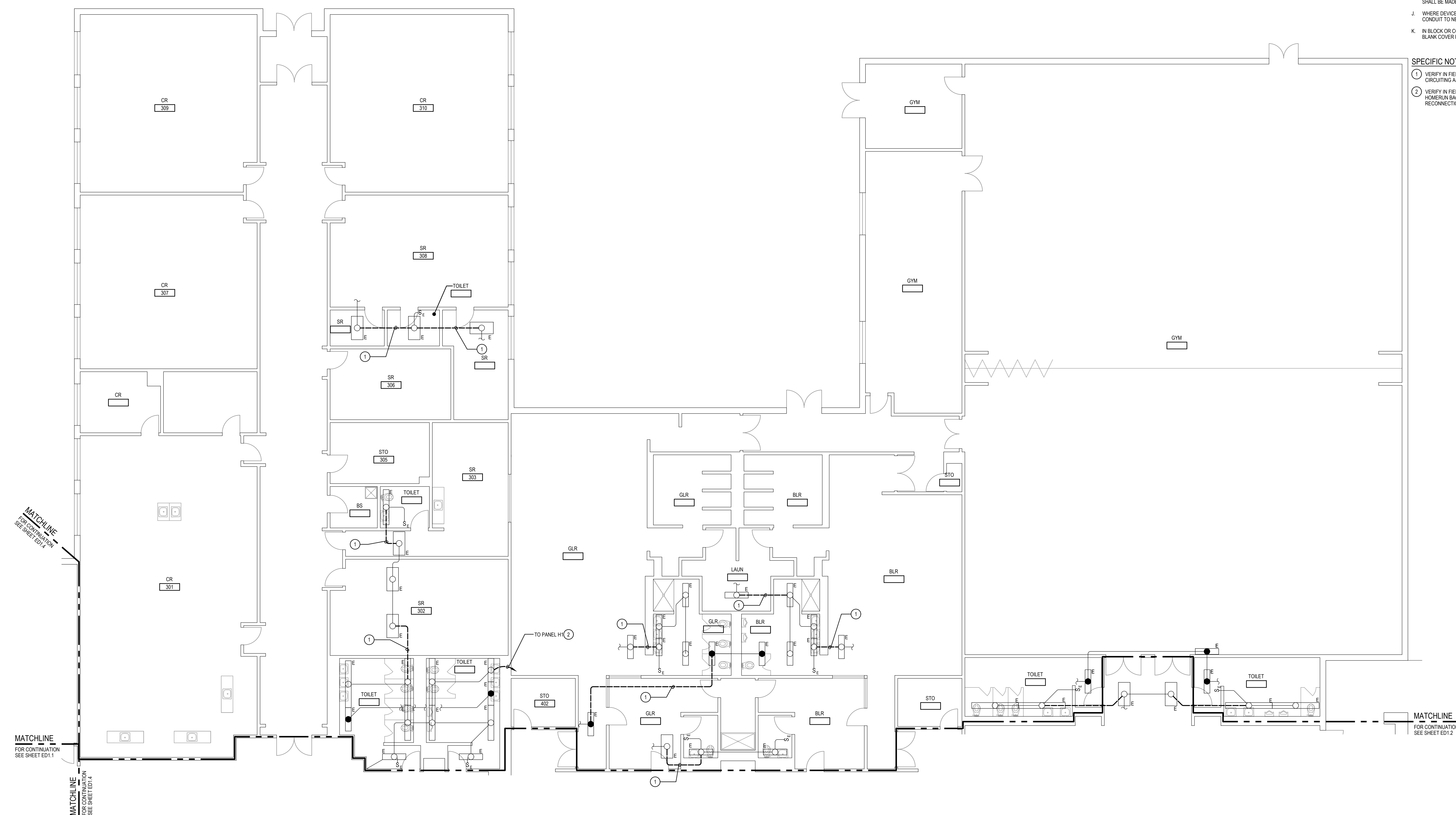
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Project No.	8241-25
Date	APRIL 23, 2026
Drawing Title	PART MAIN FLOOR PLAN - DEMOLITION
Drawing No.:	ED1.2

GENERAL NOTES:

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- 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. VERIFY IN FIELD THAT EXISTING CIRCUITING IS AS SHOWN, AND DEMOLISH CIRCUITING AS SHOWN TO ISOLATE TOILET LIGHTING FIXTURES.
- 2. VERIFY IN FIELD THAT EXISTING CIRCUITING IS AS SHOWN. REMOVE EXISTING HOMERUN BACK TO NEAREST JUNCTION BOX AND REPAIR FOR RECONNECTION. SEE NEW WORK PLANS FOR MORE INFORMATION.



1 PART MAIN FLOOR PLAN - DEMOLITION
SCALE: 1/8"=1'-0"

GENERATOR AND EQUIPMENT REPLACEMENT
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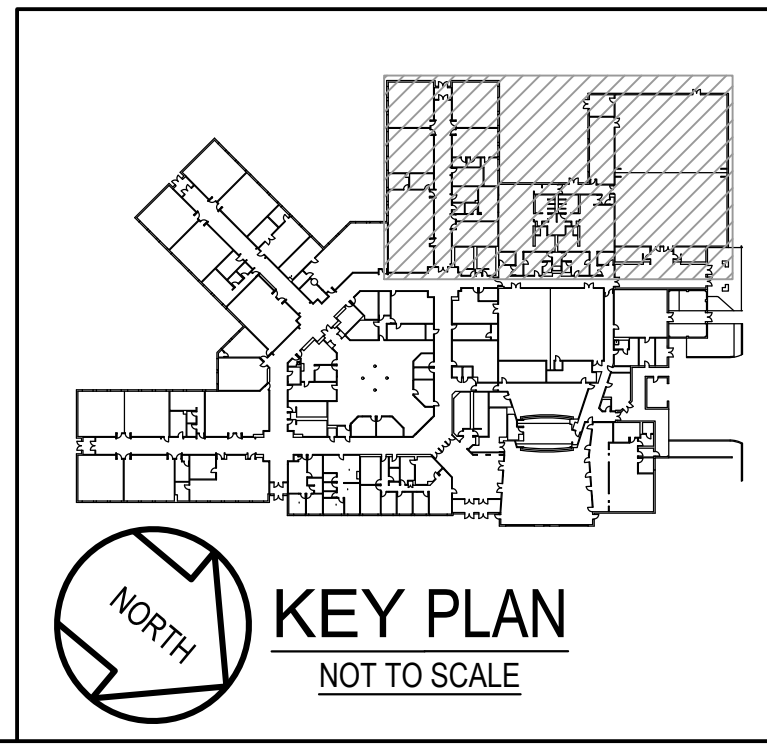


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Project No.	8241-25
Date	APRIL 23, 2026
Drawing Title	PART MAIN FLOOR PLAN - DEMOLITION
Drawing No.:	ED1.3



1 PART MAIN FLOOR PLAN - DEMOLITION
 ED1.4 SCALE: 1/8"=1'-0"

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- E. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN HEAVY DASHED (---) SHALL BE REMOVED AND ELECTRICAL ITEMS SHOWN LIGHT SOLID (---) SHALL REMAIN.
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- K. IN BLOCK OR CONCRETE WALLS TO REMAIN, PROVIDE STAINLESS STEEL BLANK COVER PLATES FOR DEVICES REMOVED.

SPECIFIC NOTES:

- 1. VERIFY IN FIELD THAT EXISTING CIRCUITING IS AS SHOWN, AND DEMOLISH CIRCUITING AS SHOWN TO ISOLATE TOILET LIGHTING FIXTURES.

GENERATOR AND EQUIPMENT REPLACEMENT
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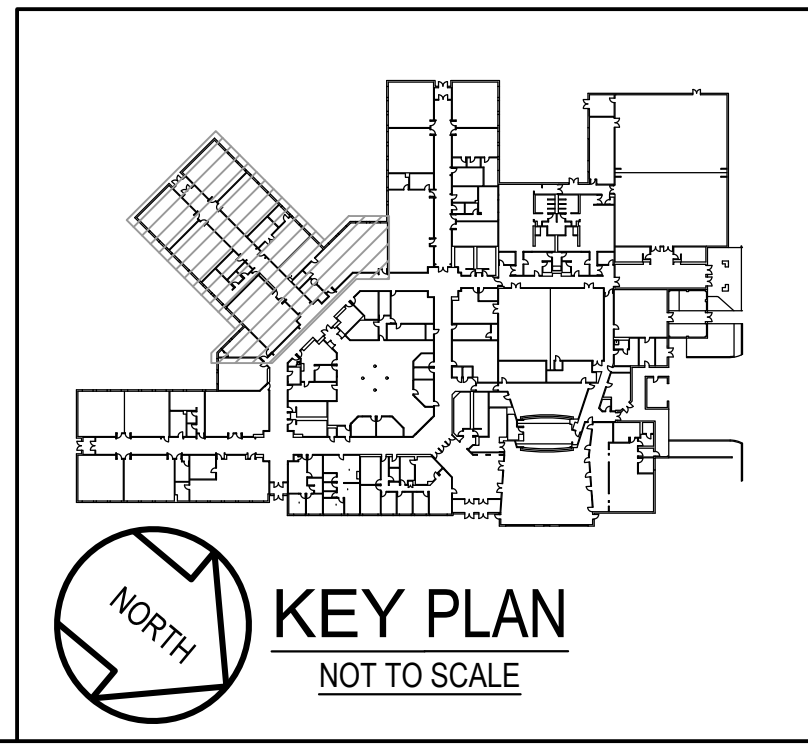
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Project No.	8241-25
Date	APRIL 23, 2026

Drawing Title
PART MAIN FLOOR PLAN - DEMOLITION

Drawing No.:
ED1.4

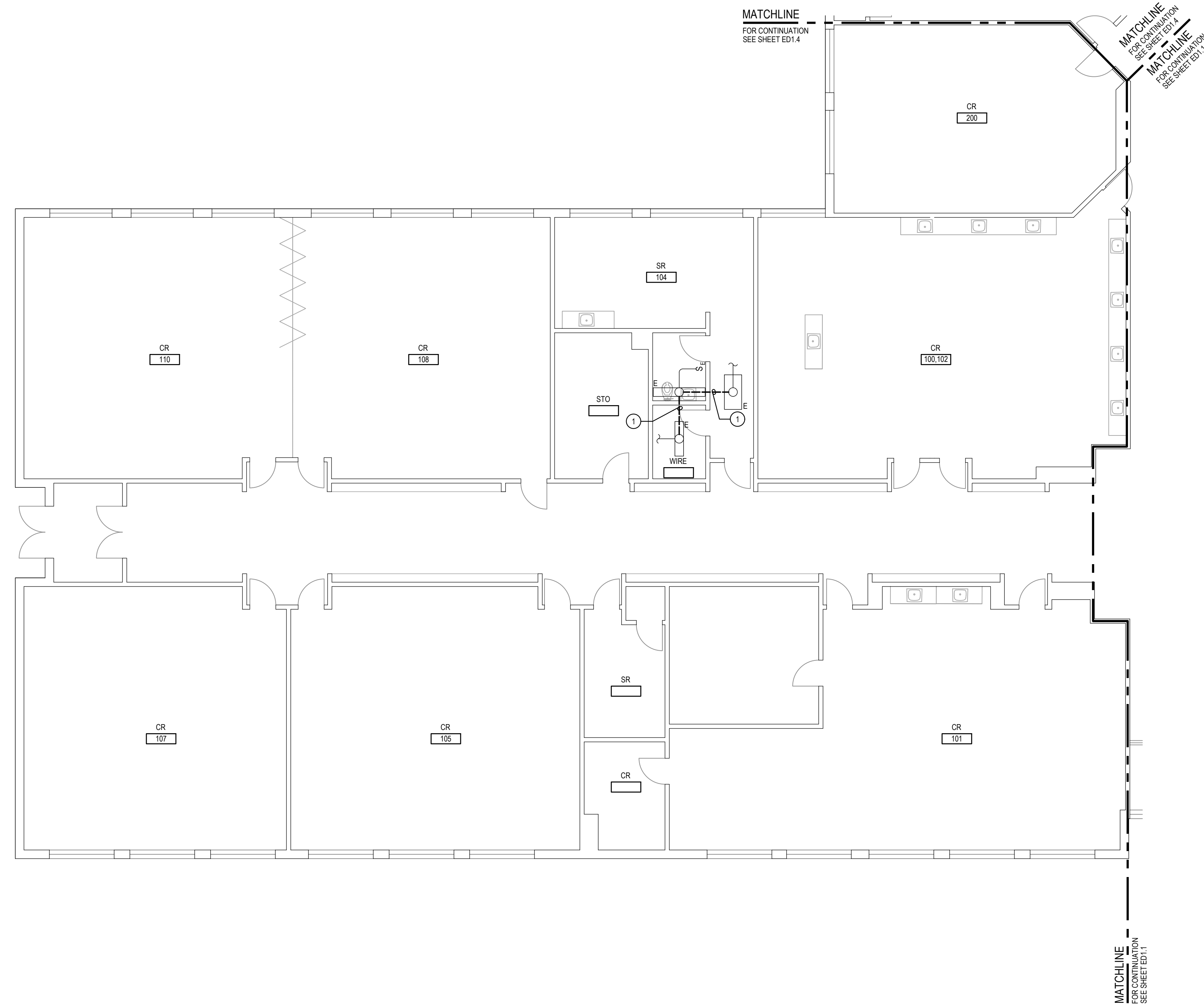


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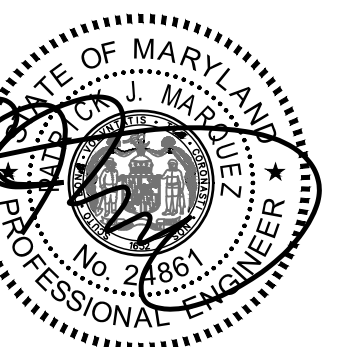
SPECIFIC NOTES:

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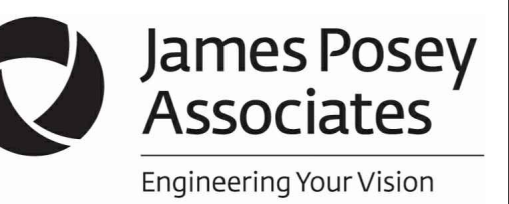


1 PART MAIN FLOOR PLAN - DEMOLITION
SCALE: 1/8"=1'-0"

GENERATOR AND EQUIPMENT REPLACEMENT
JOHN POOLE MIDDLE SCHOOL
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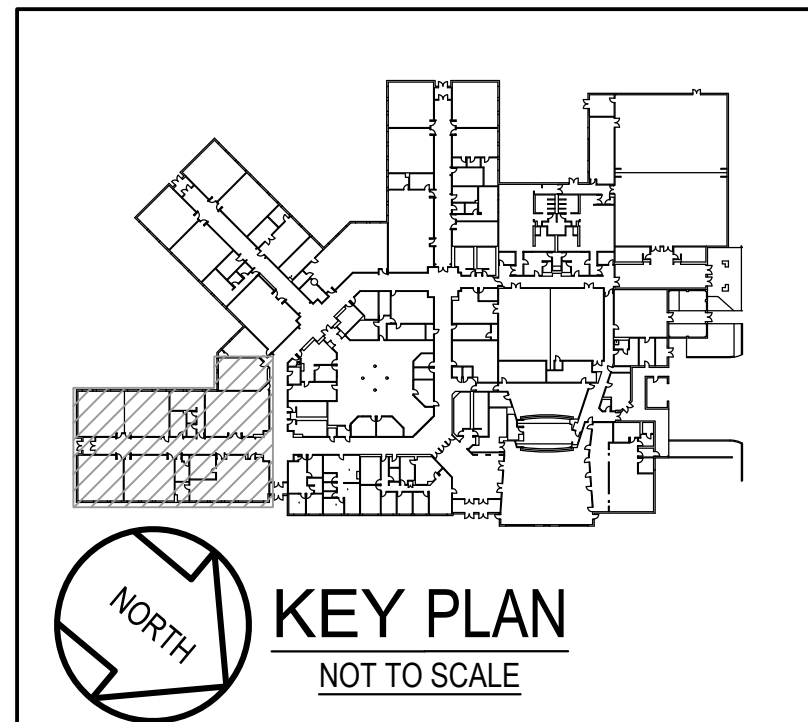
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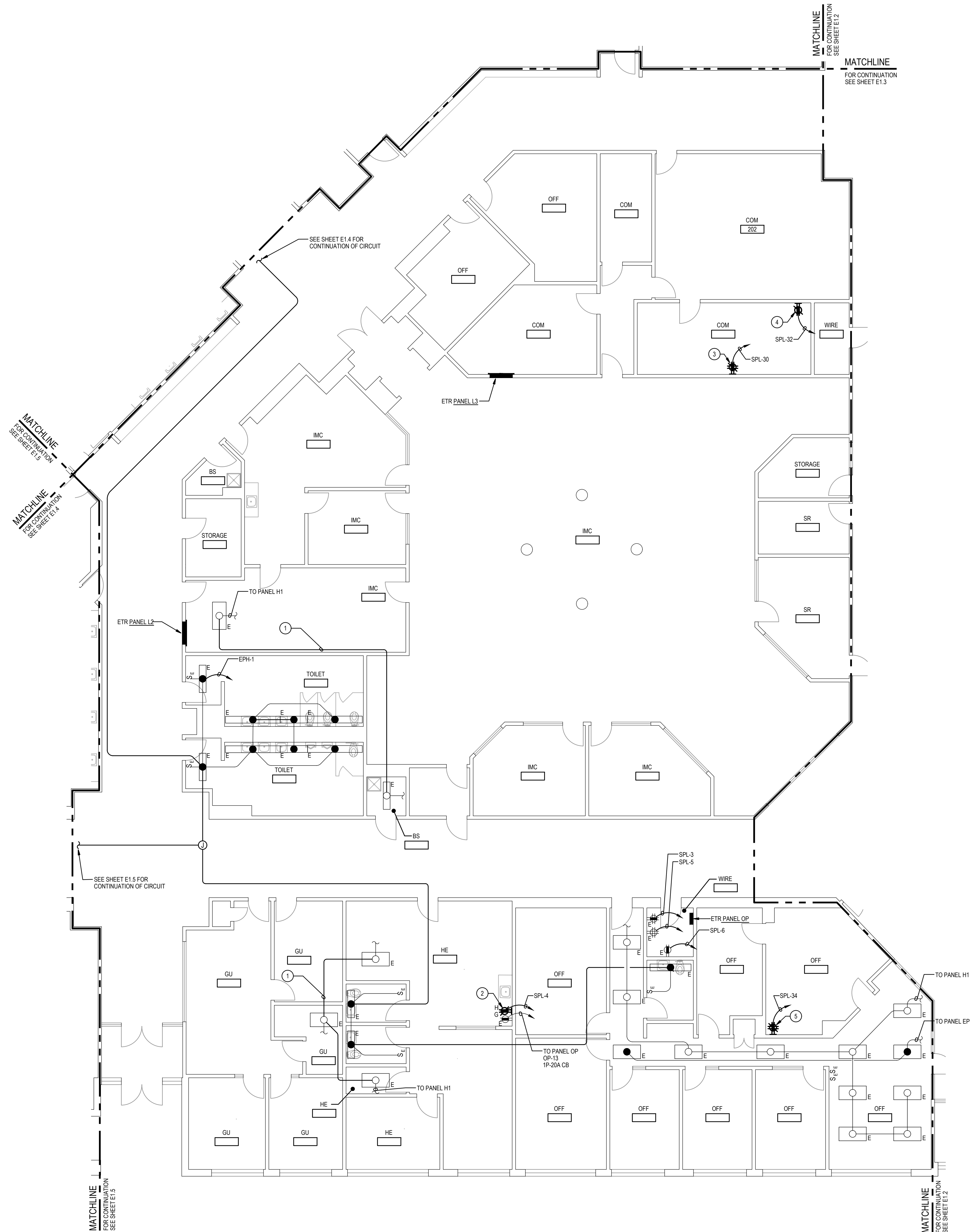
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Scale	AS NOTED
Project No.	8241-25
Date	APRIL 23, 2026

Drawing Title
PART MAIN FLOOR PLAN - DEMOLITION

Drawing No.:
ED1.5

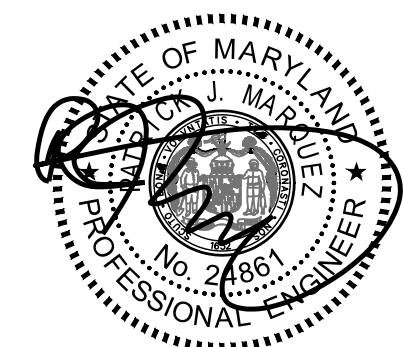




1 PART MAIN FLOOR PLAN - NEW WORK
 E1.1 SCALE: 1/8"=1'-0"

- GENERAL NOTES:**
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 - 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:**
- RECONNECT DISCONNECTED EXISTING LIGHTS TO BRANCH CIRCUIT THAT PREVIOUSLY SERVED LIGHTING. ENSURE LIGHTING ON CIRCUIT IS ENERGIZED AND LIGHTING CONTROLS OPERATE AS THEY DID PRIOR TO CONSTRUCTION.
 - SURFACE MOUNT NEW DEDICATED REFRIGERATOR RECEPTACLE NEXT TO EXISTING REFRIGERATOR RECEPTACLE. ROUTE NEW SURFACE MOUNTED RACEWAY STRAIGHT DOWN FROM ABOVE ACCESSIBLE CEILING.
 - PROVIDE QUAD RECEPTACLE ADJACENT TO SERVER RACK LOCATION.
 - PROVIDE RECEPTACLE ADJACENT TO EMERGENCY RESPONDER RADIO COVERAGE (ERRO) SYSTEM HEAD-END EQUIPMENT.
 - PROVIDE QUAD RECEPTACLE ADJACENT TO INTERCOMMUNICATIONS (PUBLIC ADDRESS) SYSTEM RACK / CONSOLE.

GENERATOR AND EQUIPMENT REPLACEMENT
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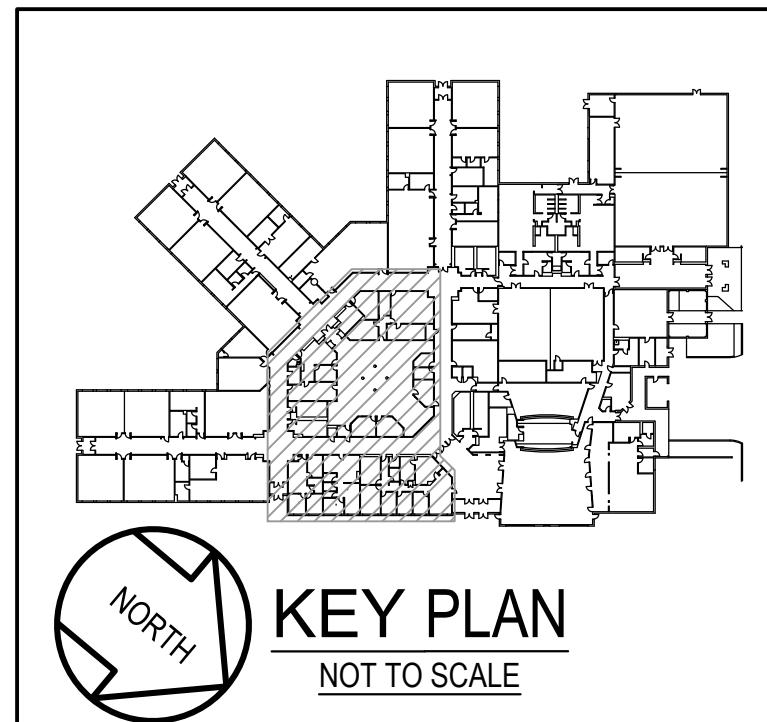


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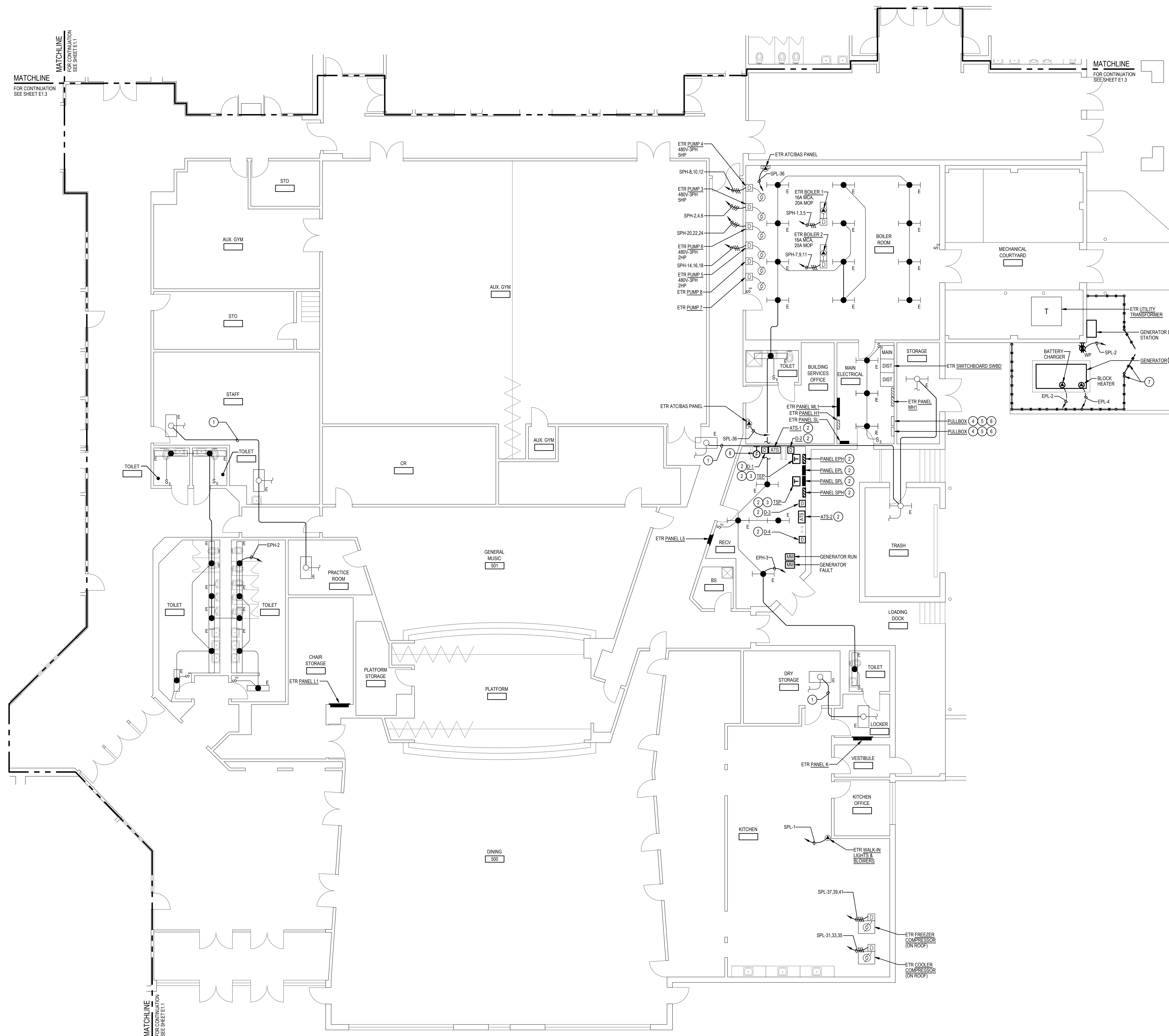
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Date	APRIL 23, 2026
Drawing Title	PART MAIN FLOOR PLAN - NEW WORK
Drawing No.:	E1.1



- GENERAL NOTES:**
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 - 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:**
- RECONNECT DISCONNECTED EXISTING LIGHTS TO BRANCH CIRCUIT THAT PREVIOUSLY SERVED LIGHTING. ENSURE LIGHTING ON CIRCUIT IS ENERGIZED AND LIGHTING CONTROLS OPERATE AS THEY DID PRIOR TO CONSTRUCTION.
 - SEE DRAWING E2.0 FOR DETAILS ON EQUIPMENT SIZING AND REQUIREMENTS.
 - TRANSFORMER TO BE SUSPENDED FROM WALL ABOVE NEW PANEL LOCATION. COORDINATE FINAL MOUNTING LOCATION WITH EXISTING FIELD CONDITIONS. PRIOR TO COMMENCEMENT OF WORK.
 - 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.
 - UTILIZE EXISTING PANELBOARD ENCLOSURE AS A PULLBOX TO INTERCEPT AND SPICE EXISTING EMERGENCY LIFE SAFETY CIRCUITS. REFER TO SPECIFIC NOTE 4 ON DRAWING E1.2 FOR ADDITIONAL INFORMATION.
 - INTERCEPT AND SPICE EXISTING STAND-BY CIRCUITS OUTSIDE OF PANELBOARD ENCLOSURE UTILIZED AS A PULLBOX. REFER TO SPECIFIC NOTE 27.2.2 FOR MORE INFORMATION.
 - PROVIDE CHAIN LINK FENCE WITH 8'-0" WIDE GATE AS INDICATED. MAINTAIN MINIMUM 4'-0" CLEARANCE AROUND GENERATOR AND IN FRONT OF ELECTRICAL EQUIPMENT.
 - REINSTALL RETAINED FIRE ALARM NOTIFICATION DEVICE IN NEW LOCATION AS INDICATED. RECONNECT TO EXISTING FIRE ALARM CIRCUIT THAT SERVED DEVICE PRIOR TO RELOCATION.

1 PART MAIN FLOOR PLAN - NEW WORK
E1.2 SCALE: 1/8"=1'-0"

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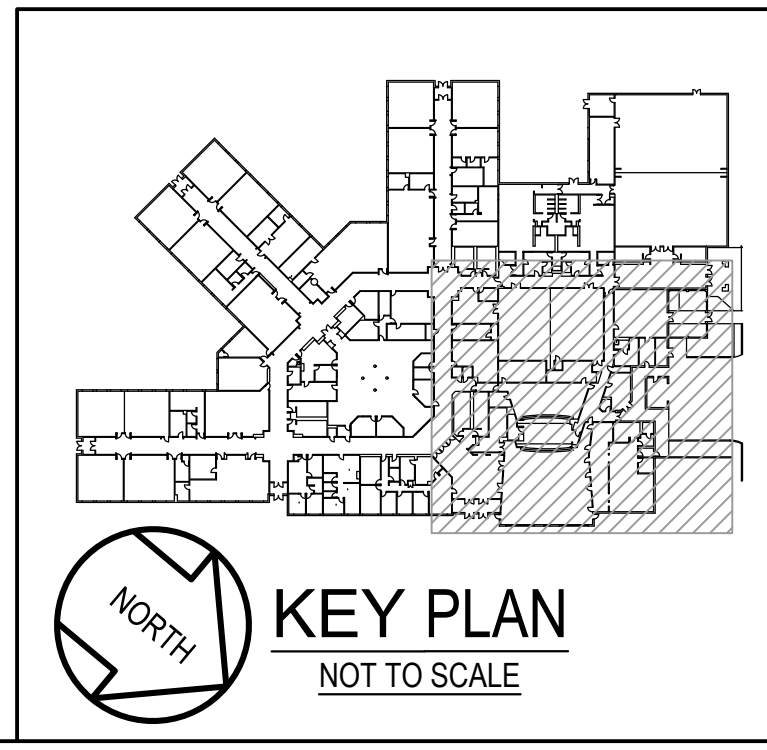


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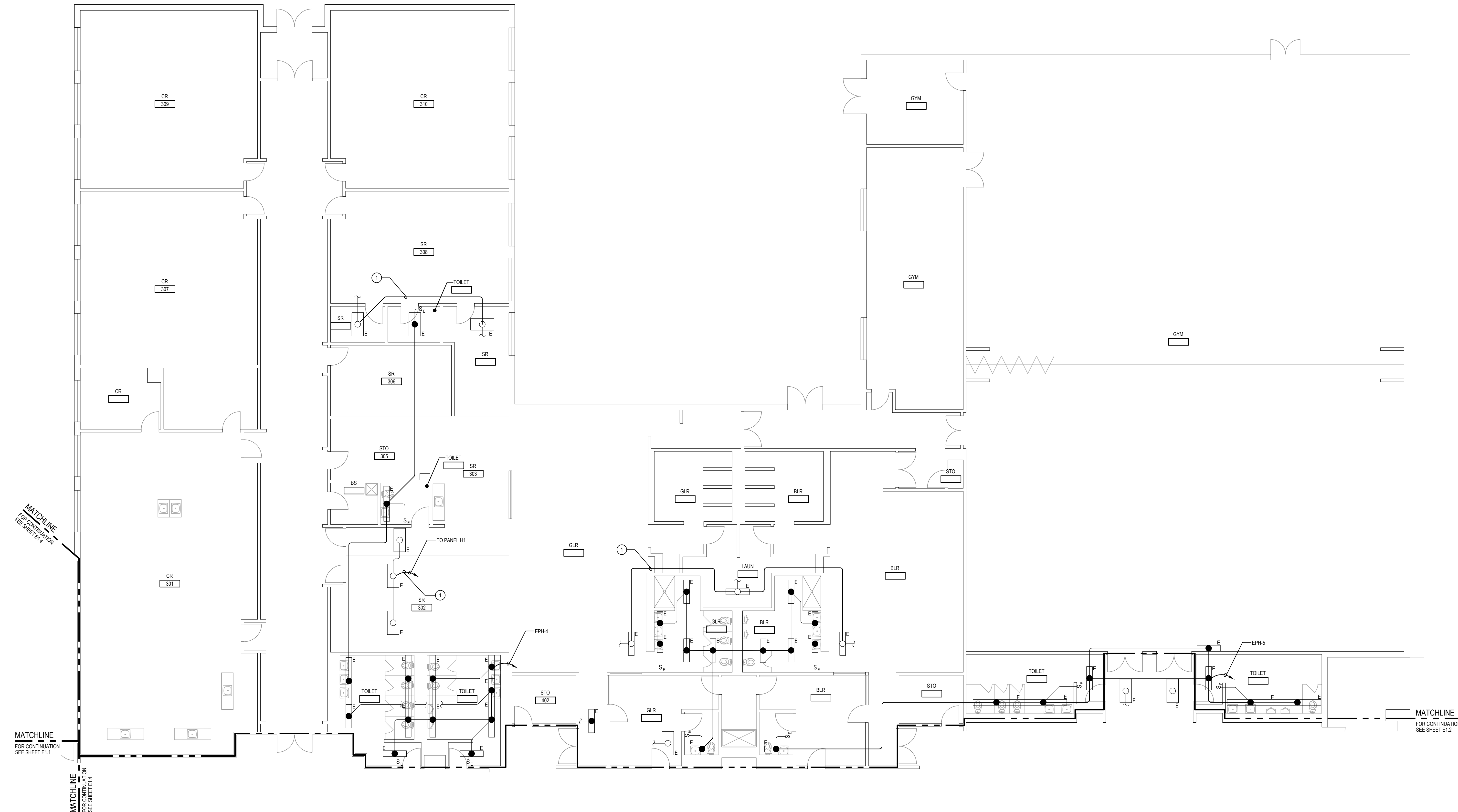
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Drawing No.:	E1.2

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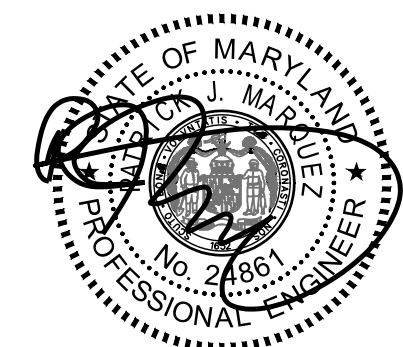
SPECIFIC NOTES:

- ① RECONNECT DISCONNECTED EXISTING LIGHTS TO BRANCH CIRCUIT THAT PREVIOUSLY SERVED LIGHTING. ENSURE LIGHTING ON CIRCUIT IS ENERGIZED AND LIGHTING CONTROLS OPERATE AS THEY DID PRIOR TO CONSTRUCTION.



1 PART MAIN FLOOR PLAN - NEW WORK
SCALE: 1/8"=1'-0"

GENERATOR AND EQUIPMENT REPLACEMENT
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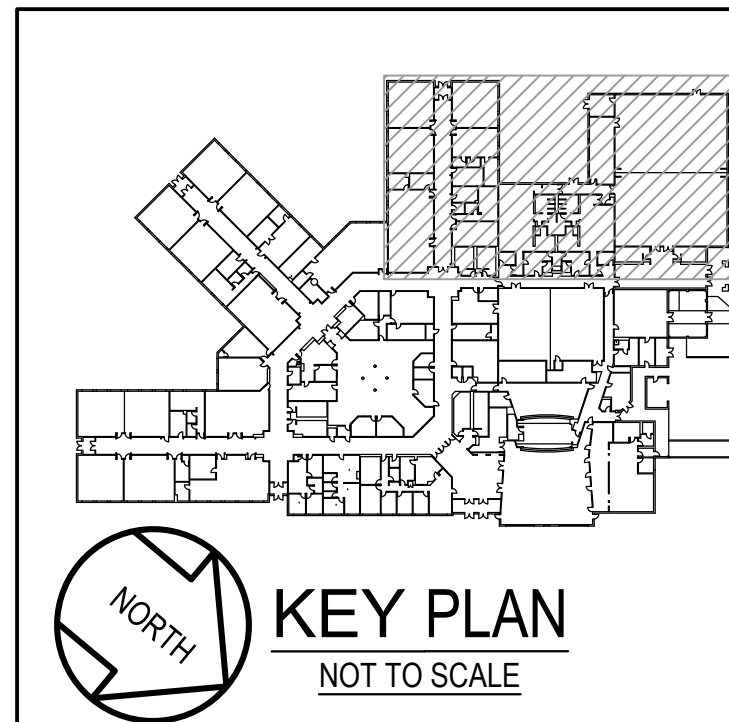
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Drawing Title	PART MAIN FLOOR PLAN - NEW WORK

Drawing No.: **E1.3**



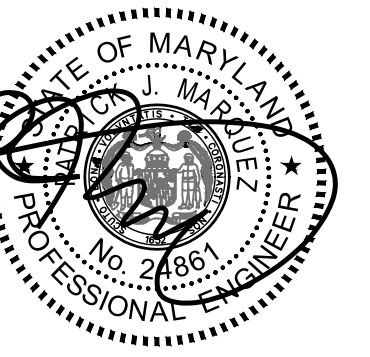
GENERAL NOTES:

- 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.

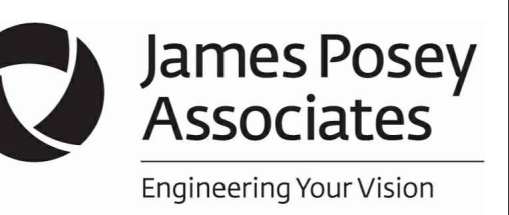


1
E1.4 PART MAIN FLOOR PLAN - NEW WORK
SCALE: 1/8"=1'-0"

GENERATOR AND EQUIPMENT REPLACEMENT
JOHN POOLE MIDDLE SCHOOL
 17014 TOM FOX AVENUE
 POOLESVILLE, MD 20837
 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. 24551, Expiration date: 02-24-2028.



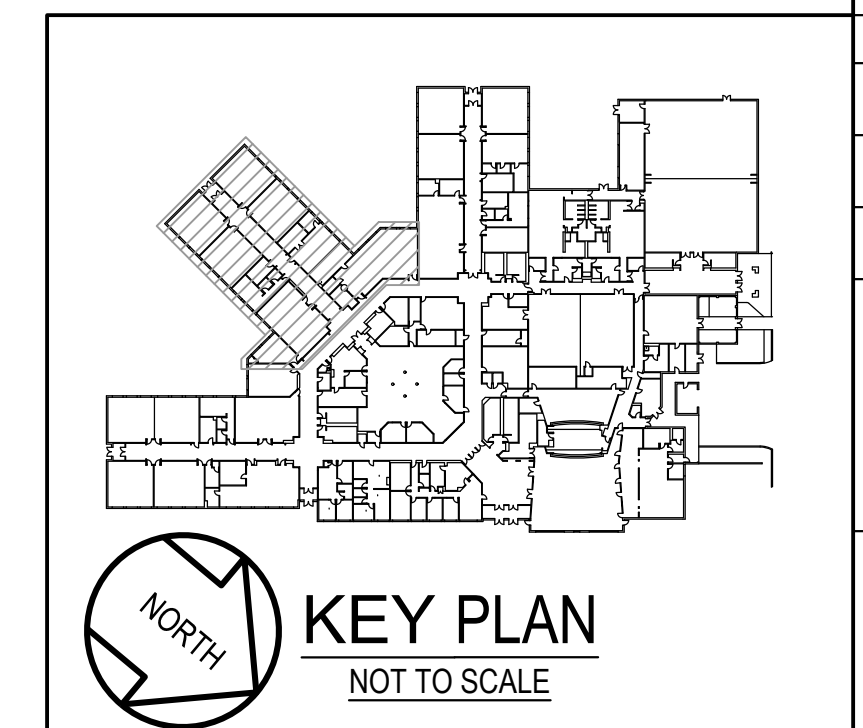
Mechanical & Electrical
Consulting Engineers
1155 Red Run Boulevard, Suite 310
Baltimore, Maryland 21117
tel 410-265-6100
jamesposey.com

Tag	Description	Date
	BID SET	4/23/26

Scale	AS NOTED
Project No.	8241-25
Date	APRIL 23, 2026

Drawing Title
PART MAIN FLOOR PLAN - NEW WORK

Drawing No.:
E1.4

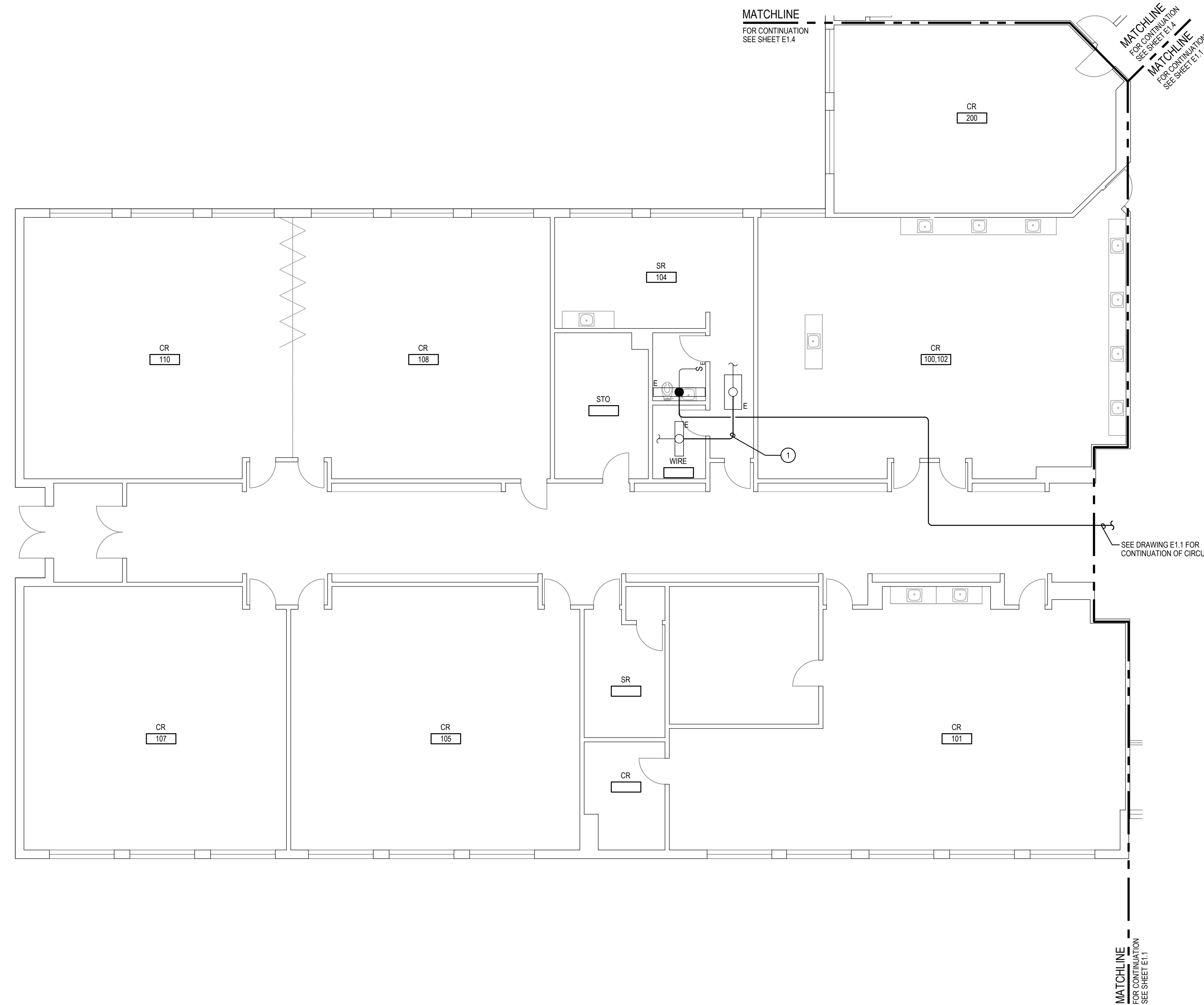


GENERAL NOTES:

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- 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.

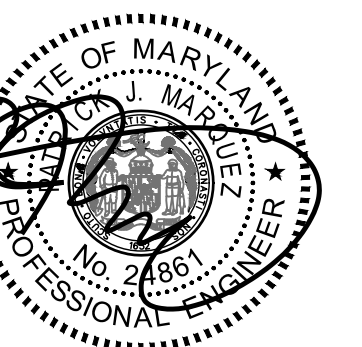
SPECIFIC NOTES:

- ① RECONNECT DISCONNECTED EXISTING LIGHTS TO BRANCH CIRCUIT THAT PREVIOUSLY SERVED LIGHTING. ENSURE LIGHTING ON CIRCUIT IS ENERGIZED AND LIGHTING CONTROLS OPERATE AS THEY DID PRIOR TO CONSTRUCTION.



1 PART MAIN FLOOR PLAN - NEW WORK
SCALE: 1/8"=1'-0"

GENERATOR AND EQUIPMENT REPLACEMENT
JOHN POOLE MIDDLE SCHOOL
 17014 TOM FOX AVENUE
 POOLESVILLE, MD 20837
MONTGOMERY COUNTY PUBLIC SCHOOLS

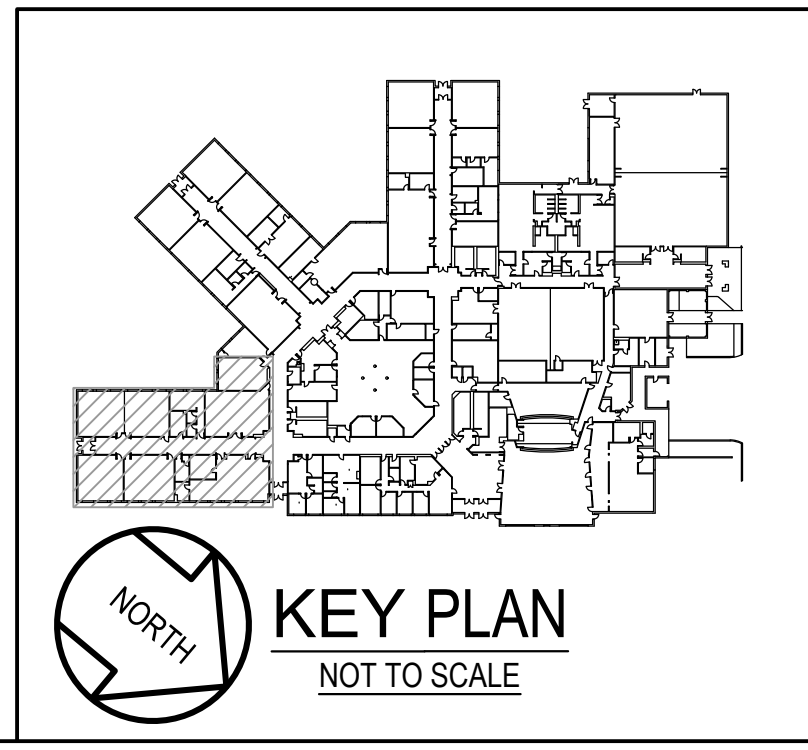


Professional Certification:
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland, License No. 24561, Expiration date: 02-24-2028.

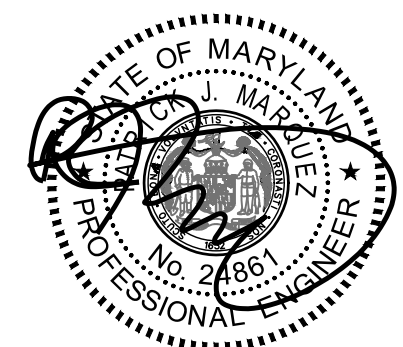


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tel 410-265-6100
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Tag	Description	Date
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Scale	AS NOTED
Project No.	8241-25
Date	APRIL 23, 2026
Drawing Title	PART MAIN FLOOR PLAN - NEW WORK
Drawing No.:	E1.5



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. 24601, Expiration date: 02-24-2028.

James Posey Associates
 Engineering Your Vision

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 jamesposey.com

Tag	Description	Date
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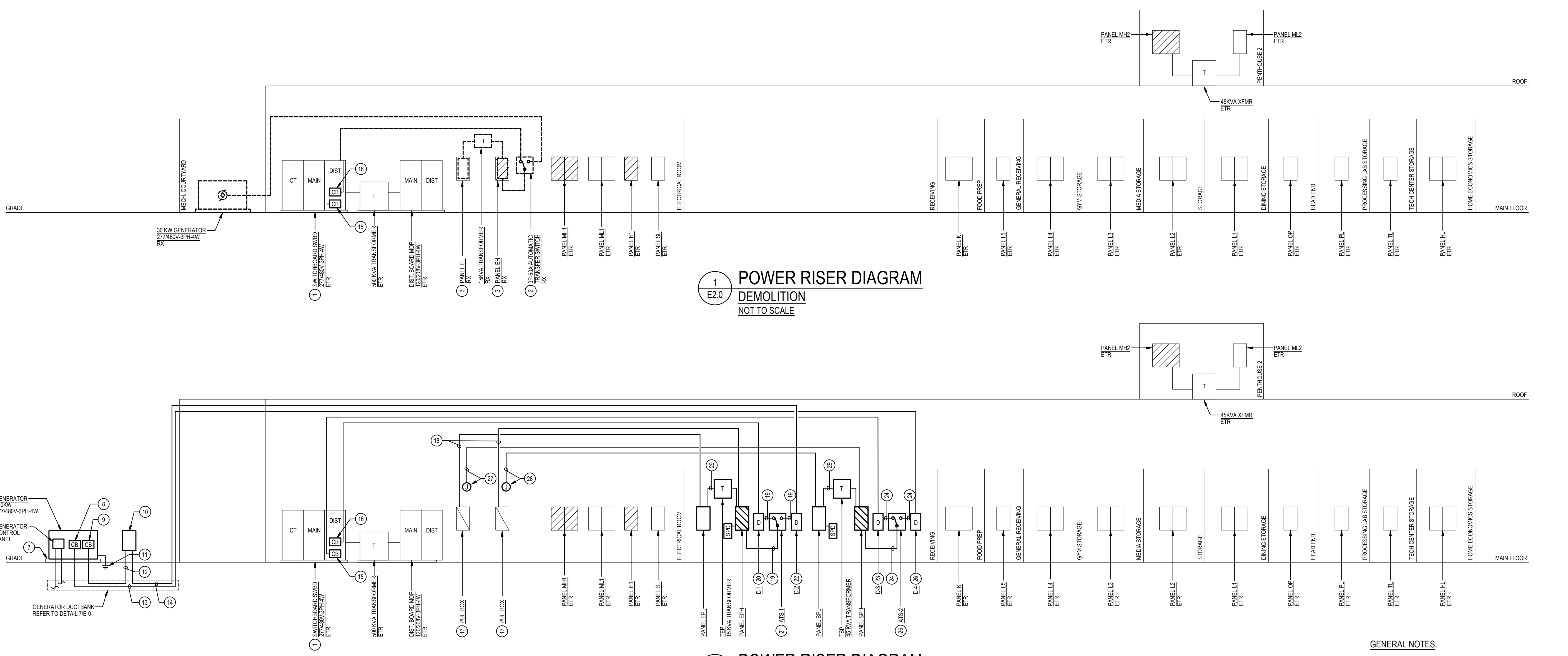
Scale	AS NOTED
Project No.	8241-25
Date	APRIL 23, 2026

Drawing Title
POWER RISER DIAGRAMS AND SCHEDULES

Drawing No.:
E6.0

- SPECIFIC NOTES:**
- EXISTING SWITCHGEAR IS BY SIEMENS 800, CIRCA FEBRUARY 1997, DATED AT 277480V, 3-PHASE, 4-WIRE, 100.00 AIC, 1600A BUS WITH FOUR SERVICE DISCONNECTS, 700A MAIN CIRCUIT BREAKER SERVING 500 KVA TRANSFORMER, 400A MAIN CIRCUIT BREAKER SERVING THE CHILLER, 400A MAIN CIRCUIT BREAKER SERVING PANEL M2, AND 400A MAIN CIRCUIT BREAKER SERVING DISTRIBUTION SECTION OF SWITCHGEAR.
 - DISCONNECT AND REMOVE EXISTING 3P-60A AUTOMATIC TRANSFER SWITCH.
 - REFER TO SPECIFIC NOTE #E1.3 FOR ADDITIONAL INFORMATION.
 - PROVIDE TYPE 1B GENERATOR PER NFPA 110. THE GENERATOR SHALL BE ABLE TO PROVIDE GENERATOR POWER TO THE SCHOOL WITHIN 10 SECONDS AFTER A UTILITY POWER OUTAGE.
 - 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.
 - PROVIDE WIRING IN CONDUIT FROM GENERATOR CONTROL PANEL TO GENERATOR REMOTE ALARM ANNUNCIATOR PANEL TO BE LOCATED IN BUILDING SERVICES OFFICE. WIRING SHALL BE AS PER GENERATOR MANUFACTURER'S RECOMMENDATIONS.
 - PROVIDE GENERATOR CONCRETE PAD. REFER TO DETAIL 7E1.0 FOR ADDITIONAL INFORMATION.
 - PROVIDE 3P-250A CIRCUIT BREAKER TO SERVE GENERATOR STANDBY LOADS. MOUNT CIRCUIT BREAKER WITHIN GENERATOR ENCLOSURE AND MAKE CONNECTIONS. COORDINATE LOCATION OF CIRCUIT BREAKER WITH GENERATOR MANUFACTURER.
 - 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.
 - PROVIDE 300A GENERATOR DOCKING STATION IN NEMA TYPE 3R ENCLOSURE, EQUAL TO TRIP RINGS WITH TWO 3P-100A CIRCUIT BREAKERS. AIR KEY INTERLOCKED. FOR CONNECTIONS TO ATS-1 AND PORTABLE MOBILE GENERATOR. FEEDER FOR LOAD BANK CONNECTION SHALL BE SIZED FOR 300A. PROVIDE SIGN ON FRONT OF GENERATOR DOCKING STATION TO READ AS FOLLOWS: SERVING EMERGENCY TRANSFER SWITCH (ATS-1) IN GENERATOR ROOM 277480V, 3-PHASE, 4-WIRE.
 - REFER TO DIAGRAM 3E1.0 FOR GENERATOR GROUNDING.
 - PROVIDE 4 #850 - #4 GROUND IN 2" CONDUIT BETWEEN 3P-300A ELECTRONIC TRIP CIRCUIT BREAKER AT GENERATOR SERVING EMERGENCY (LIFE SAFETY) LOADS AND GENERATOR DOCKING STATION, SIZED FOR LOAD BANK CONNECTION.
 - PROVIDE 4 #250 - #4 GROUND IN 2-1/2" CONDUIT. REFER TO DETAIL 7E1.0 FOR GENERATOR DUCTBANK.
 - PROVIDE 4 #2 - #8 GROUND IN 1-1/4" CONDUIT. REFER TO DETAIL 7E1.0 FOR GENERATOR DUCTBANK.
 - PROVIDE 3P-250A CIRCUIT BREAKER IN SPACE OF DISTRIBUTION SECTION OF EXISTING SWITCHGEAR TO SERVE PANEL SPH (VIA ATS-2). CIRCUIT BREAKER TYPE AND AIC RATING SHALL MATCH EXISTING.
 - REMOVE EXISTING 3P-60A CIRCUIT BREAKER AND REPLACE WITH 3P-100A CIRCUIT BREAKER AND CONNECT TO NEW FEEDER TO SERVE PANEL EPH (VIA ATS-1). CIRCUIT BREAKER TYPE AND AIC RATING SHALL MATCH EXISTING.
 - REFER TO SPECIFIC NOTES 5E1.2 & 6E1.2 FOR ADDITIONAL INFORMATION.
 - PROVIDE CONNECTIONS BACK TO EXISTING EMERGENCY CIRCUITS AT PULLBOX THAT WAS PREVIOUSLY SERVING PANELS E4 & E4, RESPECTIVELY.
 - PROVIDE 4 #2 - #8 GROUND IN 1-1/4" CONDUIT.
 - PROVIDE 3P-100A-60V FUSED ENCLOSED SWITCH WITH 100A CURRENT LIMITING FUSES IN NEMA TYPE 1 ENCLOSURE TO SERVE GENERATOR EMERGENCY / LIFE SAFETY LOADS.
 - PROVIDE 4P-100A AUTOMATIC TRANSFER SWITCH (ATS) TO SERVE EMERGENCY (LIFE SAFETY) LOADS. ATS SHALL HAVE A MINIMUM 100B WITHSTAND AND CLOSING RATING OF 65K AIC. PROVIDE NAMEPLATE ON FRONT OF ATS TO READ "EMERGENCY ATS".
 - PROVIDE 3P-100A-60V NON-FUSED ENCLOSED SWITCH WITH NEUTRAL KIT IN NEMA TYPE 1 ENCLOSURE TO SERVE GENERATOR EMERGENCY / LIFE SAFETY LOADS.
 - PROVIDE 3P-100A-60V FUSED ENCLOSED SWITCH WITH 250 CURRENT LIMITING FUSES IN NEMA TYPE 1 ENCLOSURE TO SERVE GENERATOR STANDBY LOADS.
 - PROVIDE 4 #250 - #4 GROUND IN 2-1/2" CONDUIT.
 - PROVIDE 4P-250A AUTOMATIC TRANSFER SWITCH (ATS) TO SERVE STANDBY LOADS. ATS SHALL HAVE A MINIMUM 100B WITHSTAND AND CLOSING RATING OF 65K AIC. PROVIDE NAMEPLATE ON FRONT OF ATS TO READ "STANDBY ATS".
 - PROVIDE 3P-400A-60V NON-FUSED ENCLOSED SWITCH WITH NEUTRAL KIT IN NEMA TYPE 1 ENCLOSURE TO SERVE GENERATOR STANDBY LOADS.
 - INTERCEPT EXISTING STANDBY BY CIRCUITS PREVIOUSLY SERVED FROM EXISTING PANEL E4. PROVIDE JUNCTION BOXES AS REQUIRED AND MAKE SPLICES.
 - INTERCEPT EXISTING STANDBY BY CIRCUITS PREVIOUSLY SERVED FROM EXISTING PANEL E4. PROVIDE JUNCTION BOXES AS REQUIRED AND MAKE SPLICES.
 - REFER TO TRANSFORMER SCHEDULE FOR FEEDER SIZE.
 - PROVIDE WIRING IN CONDUIT FROM GENERATOR CONTROL PANEL TO FIRE ALARM CONTROL PANEL VIA MONITOR MODULES FOR GENERATOR RUNNING AND GENERATOR FAIL STATUS. WIRING SHALL BE AS PER GENERATOR MANUFACTURER'S RECOMMENDATIONS.
 - PROVIDE WIRING IN CONDUIT FROM GENERATOR CONTROL PANEL TO EMERGENCY SHUTOFF PUSHBUTTON. WIRING SHALL BE AS PER GENERATOR MANUFACTURER'S RECOMMENDATIONS. COORDINATE LOCATION OF EMERGENCY SHUTOFF PUSHBUTTON WITH MOPS.

- GENERAL NOTES:**
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 - 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 EQUIPMENT BACK TO SOURCE UNLESS OTHERWISE NOTED.
 - REMOVE EXISTING EQUIPMENT AND DEVICES INDICATED, INCLUDING ASSOCIATED WIRE AND EQUIPMENT BACK TO SOURCE UNLESS OTHERWISE NOTED.
 - EXISTING CIRCUITS INTERRUPTED BY DEMOLITION, BUT ARE TO REMAIN, SHALL BE MAINTAINED.



1 POWER RISER DIAGRAM
 DEMOLITION
 NOT TO SCALE

2 POWER RISER DIAGRAM
 NEW WORK
 NOT TO SCALE

WIRING SCHEDULE: PANEL EPH
 277 / 480 VOLTS 3 PHASE 4 WIRE 100 AMP MAIN BUS SURFACE MOUNTED

CIR. / CUIT	POLE	DESCRIPTION	WIRE / CONDUIT			FUSE			CIR. / CUIT	POLE	DESCRIPTION	WIRE / CONDUIT			FUSE		
			AWG	INCH	TYPE	AMP	A0	B0				C0	AWG	INCH	TYPE	AMP	A0
1	1	LTG OFF, 100, 200 WING TR'S	#10-3/4"	1	20	1.0	1.1		2	2	LTG CAFETERIA TOILETS	#10-3/4"	1	20			
3	3	LTG BOILER & RECEIVING	#10-3/4"	1	20			1.3	4	4	LTG 300 WING TOILETS	#10-3/4"	1	20			
5	5	LTG GYM & LOCKER TOILETS	#10-3/4"	1	20				6	6	LTG EXITS & EGRESS	NOTE 1	1	20			
7	7	LTG EXITS & EGRESS	NOTE 1	1	20	1.4	1.5		8	8	LTG EXITS & EGRESS	NOTE 1	1	20			
9	9	LTG EXITS & EGRESS	NOTE 1	1	20			1.0	10	10	LTG MECH COURTYARD	NOTE 1	1	20			
11	11	LTG PENTHOUSE & LOBBY	NOTE 1	1	20			0.4	12	12	LTG EXITS & NEW GYM	NOTE 1	1	20			
13	13	SPARE		1	20				14	14	SPARE		1	20			
15	15	SPARE		1	20				16	16	SPARE		1	20			
17	17	SPARE		1	20				18	18	SPARE		1	20			
-	19	SPACE & PROVISIONS		1	-				20	20	SPACE & PROVISIONS		1	-			
-	21	SPACE & PROVISIONS		1	-				22	22	SPACE & PROVISIONS		1	-			
-	23	SPACE & PROVISIONS		1	-				24	24	SPACE & PROVISIONS		1	-			
25	25	EXTERNAL MOUNTED SURGE PROTECTIVE DEVICE	#8-3/4"	3	30		0.7		26	26	PANEL EPL (VIA XFMR TEP)	#8-3/4"	3	30			
27	27	SPARE		1	20			2.0	28	28	SPARE		1	20			
29	29	SPARE		1	20			0.5	30	30	SPARE		1	20			
			CONNECTED LOAD = 16.2 KVA			2.3 3.2 2.2 3.6 1.8 3.0						5.6 5.9 4.8			MAIN FUSE 100 AMPS		
			DEMAND LOAD = 16.2 KVA												LOCATION RECEIVING		
			MINIMUM AIC RATING = 65,000 AMPS SYMMETRICAL														

GENERAL NOTES:
 A. LOADS INDICATED IN ITALICS ARE EXISTING LOADS RELOCATED TO THIS PANEL.
 B. LOADS INDICATED IN BOLD ARE NEW LOADS.

NOTES:
 1. INTERCEPT AND SPLICE EXISTING BRANCH CIRCUIT AT PANELBOARD ENCLOSURE TO BE USED AS A PULL BOX. PROVIDE NEW WIRING IN CONDUIT, WITH WIRING TO MATCH EXISTING WIRING, AND MAKE CONNECTIONS.
 2. PROVIDE FUSIBLE PANELBOARD.

SCHEDULE OF TRANSFORMERS

TRANSFORMER DESIG.	KVA	LOCATION	PRIMARY FEEDER	SECONDARY TAP WIRING & CONDUIT (NOTE A)	GROUNDING ELECTRODE CONDUCTOR	EQUIPMENT SERVED	NOTES
TEP	15	RECEIVING ROOM	EPH-26,28,30	#8-#8G-1" C	#8	PANEL EPL	1
TSP	45	RECEIVING ROOM	SPH-26,28,30	#10-#8G-2" C	#6	PANEL SPL	1

TRANSFORMER GENERAL NOTES:
 A. TRANSFORMER SECONDARY TAP CONDUCTORS INDICATED REFLECT PHASE, NEUTRAL (IN WYE-CONFIGURATION), AND SUPPLY-SIDE BONDING JUMPER (SSBJ) IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE (NEC) ARTICLES 450, 240.21, AND 250.30.
 B. TRANSFORMER SHALL HAVE 480-VOLT, 3-PHASE, DELTA PRIMARY AND 120/208-VOLT, 3-PHASE, WYE SECONDARY.

TRANSFORMER SPECIFIC NOTES:
 1. PROVIDE CEILING/WALL SUSPENSION MOUNTING BRACKETS FOR TRANSFORMER.

WIRING SCHEDULE: PANEL EPL
 120 / 208 VOLTS 3 PHASE 4 WIRE 100 AMP MAIN BUS SURFACE MOUNTED

CIR. / CUIT	POLE	DESCRIPTION	WIRE / CONDUIT			FUSE			CIR. / CUIT	POLE	DESCRIPTION	WIRE / CONDUIT			FUSE		
			AWG	INCH	TYPE	AMP	A0	B0				C0	AWG	INCH	TYPE	AMP	A0
1	1	FIRE ALARM CONTROL PANEL	#10-3/4"	1	20	0.5	0.2		2	2	GENERATOR BATT. CHARGER	#10-3/4"	1	20			
3	3	FIRE ALARM CONTROL PANEL	NOTE 1	1	20			0.5	4	4	GENERATOR HEATER	#10-3/4"	1	20			
5	5	FIRE ALARM CONTROL PANEL	NOTE 1	1	20			0.5	6	6	SPARE		1	20			
7	7	SPARE		1	20				8	8	SPARE		1	20			
9	9	SPARE		1	20				10	10	SPARE		1	20			
-	11	SPACE & PROVISIONS		1	-				12	12	SPACE & PROVISIONS		1	-			
-	13	SPACE & PROVISIONS		1	-				14	14	SPACE & PROVISIONS		1	-			
-	15	SPACE & PROVISIONS		1	-				16	16	SPACE & PROVISIONS		1	-			
-	17	SPACE & PROVISIONS		1	-				18	18	SPACE & PROVISIONS		1	-			
-	19	SPACE & PROVISIONS		1	-				20	20	SPACE & PROVISIONS		1	-			
-	21	SPACE & PROVISIONS		1	-				22	22	SPACE & PROVISIONS		1	-			
-	23	SPACE & PROVISIONS		1	-				24	24	SPACE & PROVISIONS		1	-			
-	25	SPACE & PROVISIONS		1	-				26	26	SPACE & PROVISIONS		1	-			
-	27	SPACE & PROVISIONS		1	-				28	28	SPACE & PROVISIONS		1	-			
-	29	SPACE & PROVISIONS		1	-				30	30	SPACE & PROVISIONS		1	-			
			CONNECTED LOAD = 3.2 KVA			0.5 0.2 0.5 1.5 0.5 0.0						0.7 2.0 0.5			MAIN FUSE 60 AMPS		
			DEMAND LOAD = 3.2 KVA												LOCATION RECEIVING		
			MINIMUM AIC RATING = 22,000 AMPS SYMMETRICAL														

GENERAL NOTES:
 A. LOADS INDICATED IN ITALICS ARE EXISTING LOADS RELOCATED TO THIS PANEL.
 B. LOADS INDICATED IN BOLD ARE NEW LOADS.

NOTES:
 1. INTERCEPT AND SPLICE EXISTING BRANCH CIRCUIT AT PANELBOARD ENCLOSURE TO BE USED AS A PULL BOX. PROVIDE NEW WIRING IN CONDUIT, WITH WIRING TO MATCH EXISTING WIRING, AND MAKE CONNECTIONS.
 2. PROVIDE FUSIBLE PANELBOARD.

WIRING SCHEDULE: PANEL SPL
 120 / 208 VOLTS 3 PHASE 4 WIRE 225 AMP MAIN BUS SURFACE MOUNTED

CIR. / CUIT	POLE	DESCRIPTION	WIRE / CONDUIT			BREAKER			CIR. / CUIT	POLE	DESCRIPTION	WIRE / CONDUIT			BREAKER		
			AWG	INCH	TYPE	AMP	A0	B0				C0	AWG	INCH	TYPE	AMP	A0
1	1	WALK-IN LIGHTS & BLOWER	#10-3/4"	1	20	1.0	0.2		2	2	REC GENERATOR YARD	#10-3/4"	1	20			
3	3	REC TELE. HEAD END	NOTE 1	1	20			0.4	4	4	REC HEALTH FRIDGE	#10-3/4"	1	20			
5	5	REC TELE. HEAD END	NOTE 1	1	20			0.4	6	6	REC TELECOM HEAD END	#10-3/4"	1	20			
7	7	REC SECURITY	NOTE 1	1	20	0.4	0.4		8	8	REC SOUND STAGE SYT	NOTE 1	1	20			
9	9	REC SECURITY	NOTE 1	1	20			0.4	10	10	REC SOUND SYSTEM	NOTE 1	1	20			
11	11	REC SECURITY	NOTE 1	1	20			0.4	12	12	REC SOUND SYSTEM	NOTE 1	1	20			
13	13	REC SECURITY	NOTE 1	1	20	0.4	0.5		14	14	REC ELEC RM	NOTE 1	1	20			
15	15	REC SECURITY	NOTE 1	1	20			0.4	16	16	REC MECH. COURTYARD	NOTE 1	1	20			
17	17	EXISTING CIRCUIT (NOTE 2)	NOTE 1	1	20			0.5	18	18	EXISTING CIRCUIT (NOTE 2)	NOTE 1	1	20			
19	19	EXISTING CIRCUIT (NOTE 2)	NOTE 1	1	20	0.5	0.5		20	20	EXISTING CIRCUIT (NOTE 2)	NOTE 1	1	20			
21	21	EXISTING CIRCUIT (NOTE 2)	NOTE 1	1	20			0.5	22	22	EXISTING CIRCUIT (NOTE 2)	NOTE 1	1	20			
23	23	EXISTING CIRCUIT (NOTE 2)	NOTE 1	1	20			0.5	24	24	EXISTING CIRCUIT (NOTE 2)	NOTE 1	1	20			
25	25	EXISTING CIRCUIT (NOTE 2)	NOTE 1	1	20	0.5	0.5		26	26	EXISTING CIRCUIT (NOTE 2)	NOTE 1	1	20			
27	27	EXISTING CIRCUIT (NOTE 2)	NOTE 1	1	20			0.5	28	28	EXISTING CIRCUIT (NOTE 2)	NOTE 1	1	20			
29	29	EXISTING CIRCUIT (NOTE 2)	NOTE 1	1	20			0.5	30	30	REC SERVER RACK	#8-3/4"	1	20			
31	31	SPARE		1	20				32	32	REC ERRR EQUIPMENT	#8-3/4"	1	20			
33	33	SPARE		1	20				34	34	REC PA RACK / CONSOLE	#8-3/4"	1	20			
35	35																