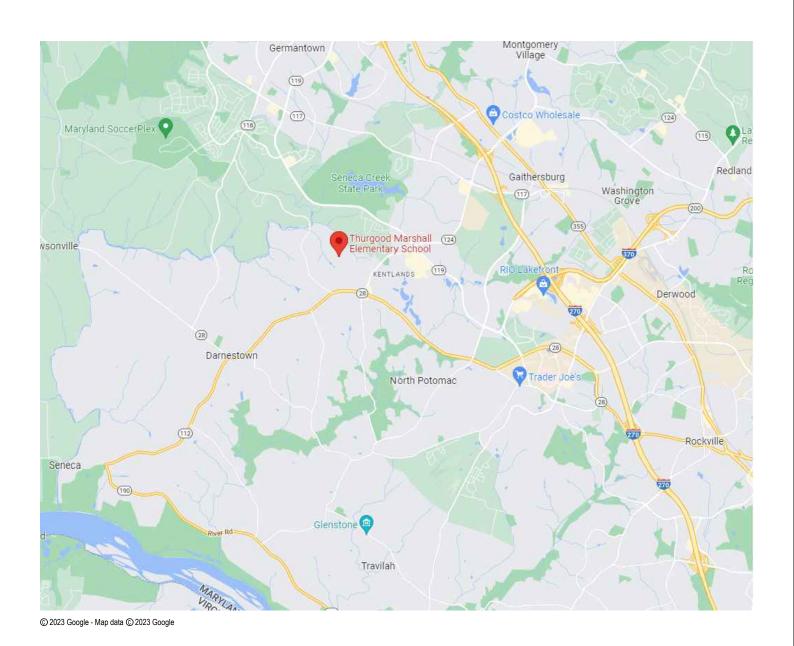
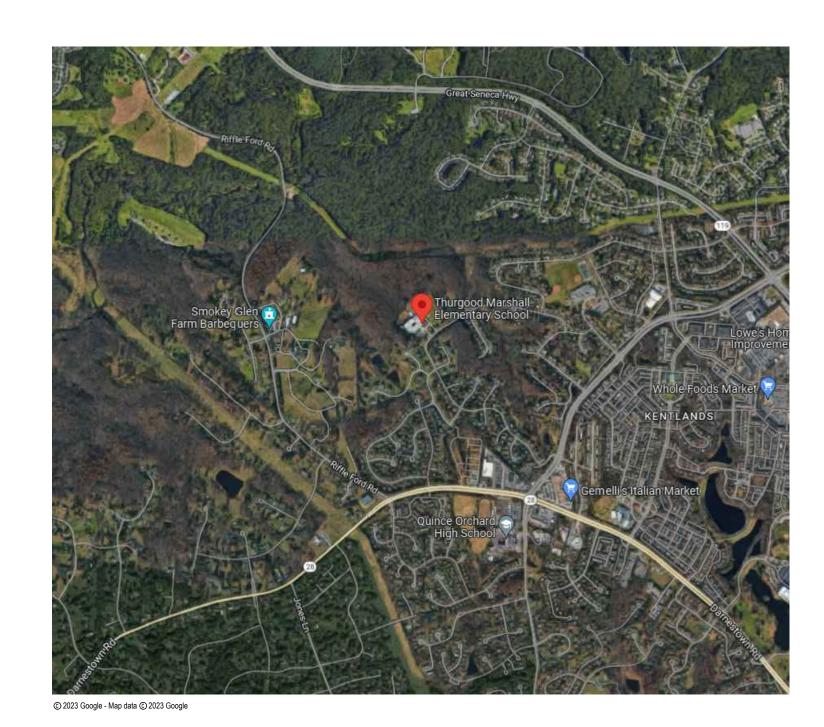
Generator and Electrical Equipment Replacement THURGOOD MARSHALL ELEMENTARY SCHOOL 12260 MCDONALD CHAPEL DRIVE, GAITHERSBURG, MD 20878 Montgomery County Public Schools

VICINITY PLAN





BOARD OF EDUCATION

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SUPERINTENDENT DIRECTOR I, DIVISION OF DESIGN & CONSTRUCTION DISTRICT 5 PRESIDENT / AT-LARGE DISTRICT 1 VICE PRESIDENT / DISTRICT 4 AT-LARGE DISTRICT 3

STUDENT MEMBER

IBC OCCUPANCY CLAS TYPE OF CONSTRUCTION NUMBER OF STORIES A HIGH RISE (Y/N) FIRE ALARM (Y/N) FULLY SPRINKLERED (Y TOTAL BUILDING FLOOR

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

AERIAL SITE PLAN

T-1 TITLE SHEET

MECHANICAL

M-1	DIAGRAMS, SYMBOLS AND ABBREVIATION
M-2	PART FIRST FLOOR PLAN - DEMOLITION

M-3 PART FIRST FLOOR PLAN - NEW WORK

ELECTRICAL

- SYMBOLS LIST, ABBREVIATIONS, DETAILS AND DIAGRAMS PART FIRST FLOOR PLAN - DEMOLITION
- PART FIRST FLOOR PLAN DEMOLITION
- SECOND FLOOR PLAN DEMOLITION
- PART FIRST FLOOR PLAN NEW WORK PART FIRST FLOOR PLAN - NEW WORK
- SECOND FLOOR PLAN NEW WORK
- POWER RISER DIAGRAMS AND SCHEDULES

DRAWING INDEX **PROFESSIONAL CERTIFICATION** These contract documents for Thurgood Marshall 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 Maryland Professional Engineer Registration No. 2486 APPLICABLE CODES & STANDARDS INTERNATIONAL BUILDING CODE 2018 IBC: INTERNATIONAL MECHANICAL CODE 2018 IMC: INTERNATIONAL PLUMBING CODE WITH WSSC AMENDMENTS 2018 IPC: ENERGY STANDARD FOR BUILDINGS EXCEPT LOW RISE RESIDENTIAL BUILDINGS ASHRAE 90. 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 DEVICES AND CONNECTIONS TO EXISTING EQUIPMENT. FINAL CONNECTIONS TO GRAPHIC SCALES CONNECT LIGHTING FIXTURES IN TOILET ROOMS ON NORMAL CIRCUITS TO EXISTING EMERGENCY LIGHTING CIRCUITS, WHERE

- PROVIDE CONDUITS AND RACEWAYS FOR NEW GENERATOR
- NEW DEVICES AND EXISTING EQUIPMENT SHALL BE PERFORMED DURING THE SECOND SUMMER.
- PROVIDE NEW CONCRETE PAD FOR NEW GENERATOR 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 INTERCOMMUNICATIONS/PUBLIC ADDRESS SYSTEM TO THE 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.

CODE ANALYSIS

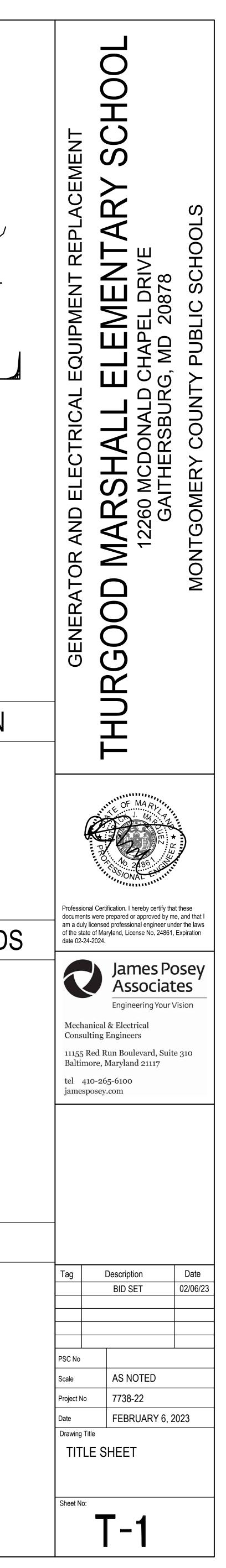
CODE ANALYSIS (FROM INTERNATIONAL BUILDING CODE/2018)

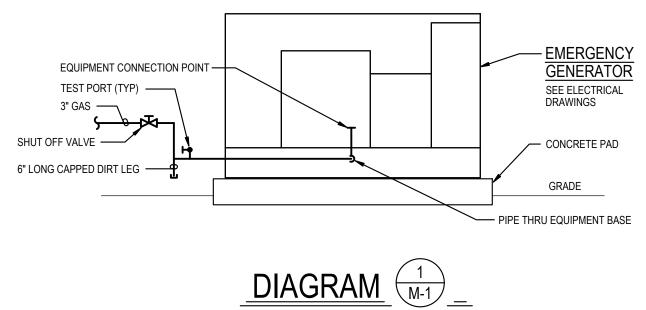
	EXISTING BLDG	PROPOSED ALTERATION	
SIFICATION	E	THE SCOPE OF THIS WORK IS	
ON	IIB	TO REPLACE EXISTING GENERATOR AND REVISE	
ABOVE GRADE	1	NORMAL LIGHTING CIRCUITS IN TOILET ROOMS, BOILER	
	Ν	ROOM AND ELEC ROOM TO EMERGENCY LIGHTING.	
	Y	THERE IS NO INCREASE IN	
Y/N)	Y	FLOOR AREA, NO SITE CHANGES, NO CHANGE IN	
R AREA	77,798 SF	CLASSIFICATION OR TYPE OF CONSTRUCTION.	

16	8	0	16	32
SC	ALE: 1/1	6" = 1'-0"		
8	4	0	8	16
SC/	ALE: 1/8	" = 1'-0"		
4	2	0	4	8

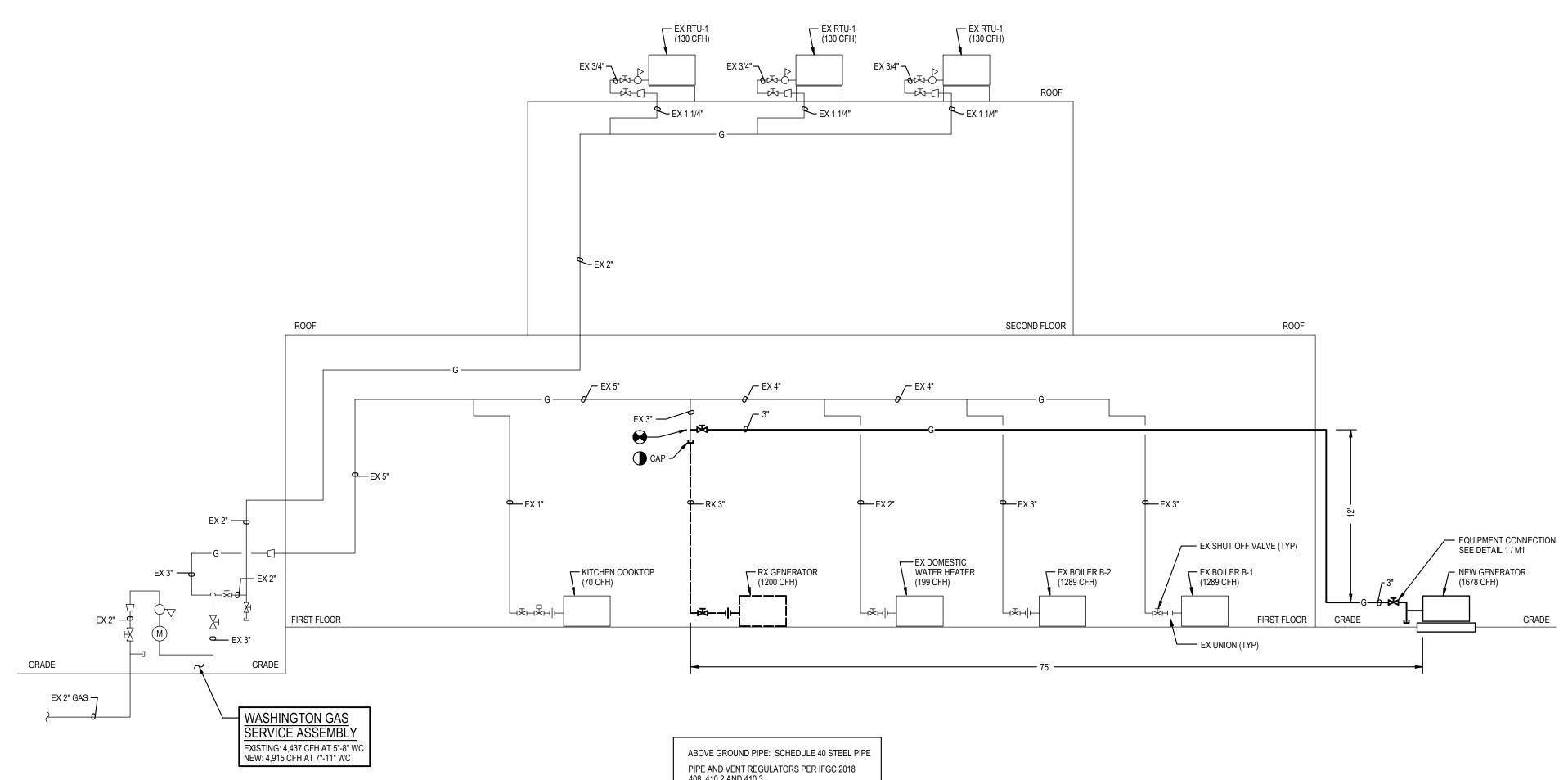
SCALE: 1/4" = 1'-0"

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

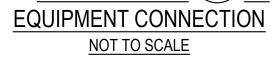






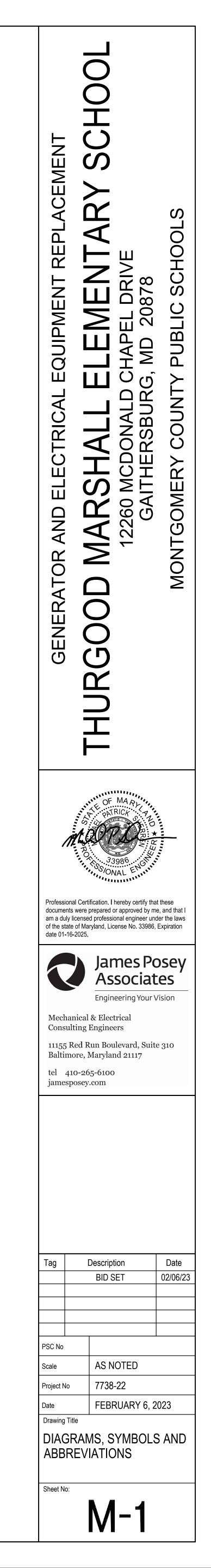


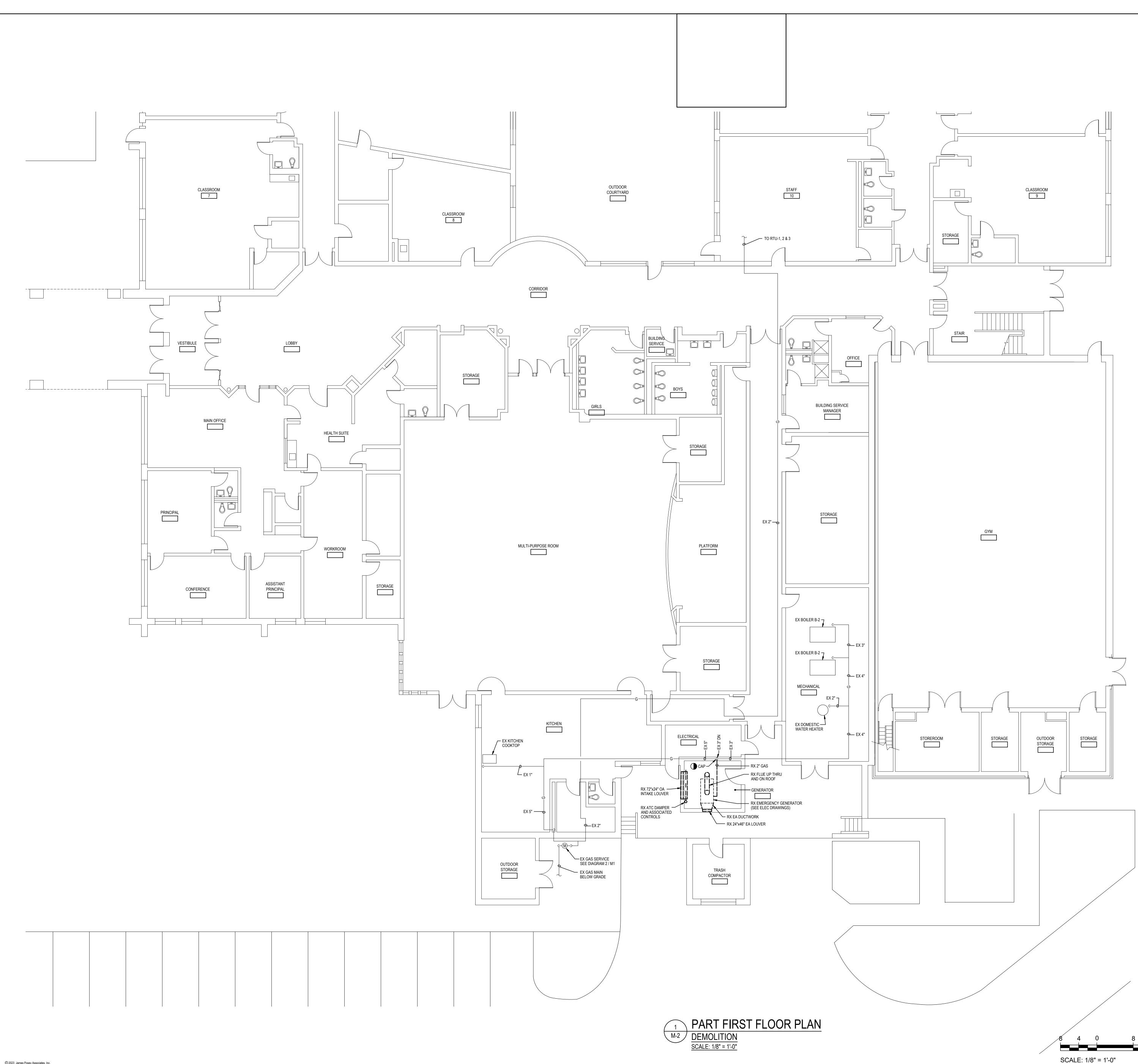
	MECHANICAL SYMBOLS AND ABBREVIATIONS						
-	MECHANICAL SYMBOLS - LOW PRESSURE GAS PIPE - MEDIUM PRESSURE GAS PIPE PIPE CAP OR PLUG - UNION - SHUT-OFF VALVE - SOLENOID VALVE - PRESSURE REDUCING / REGULATING VALVE - METER - GAUGE COCK / TEST PORT	Ø AND A Ø A/D AAV ABV AFF BLDG BLW BTUH CFH CFH CFM CLG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

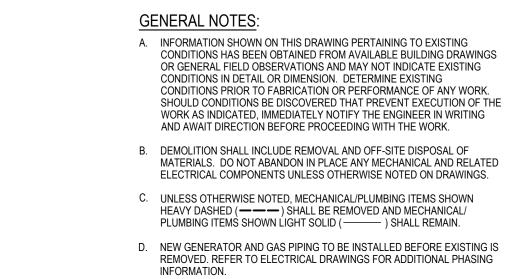


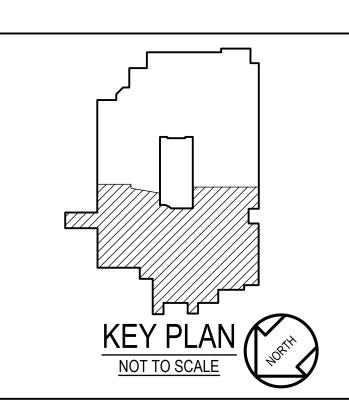
PIPE AND VENT REGULATORS PER IFGC 2018 408, 410.2 AND 410.3

DIAGRAM GAS RISER NOT TO SCALE

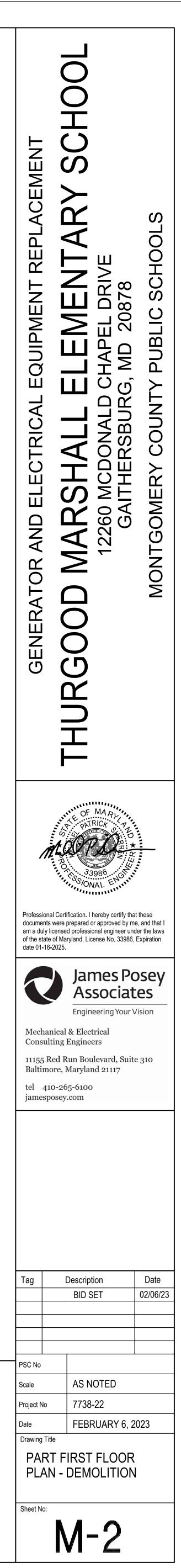


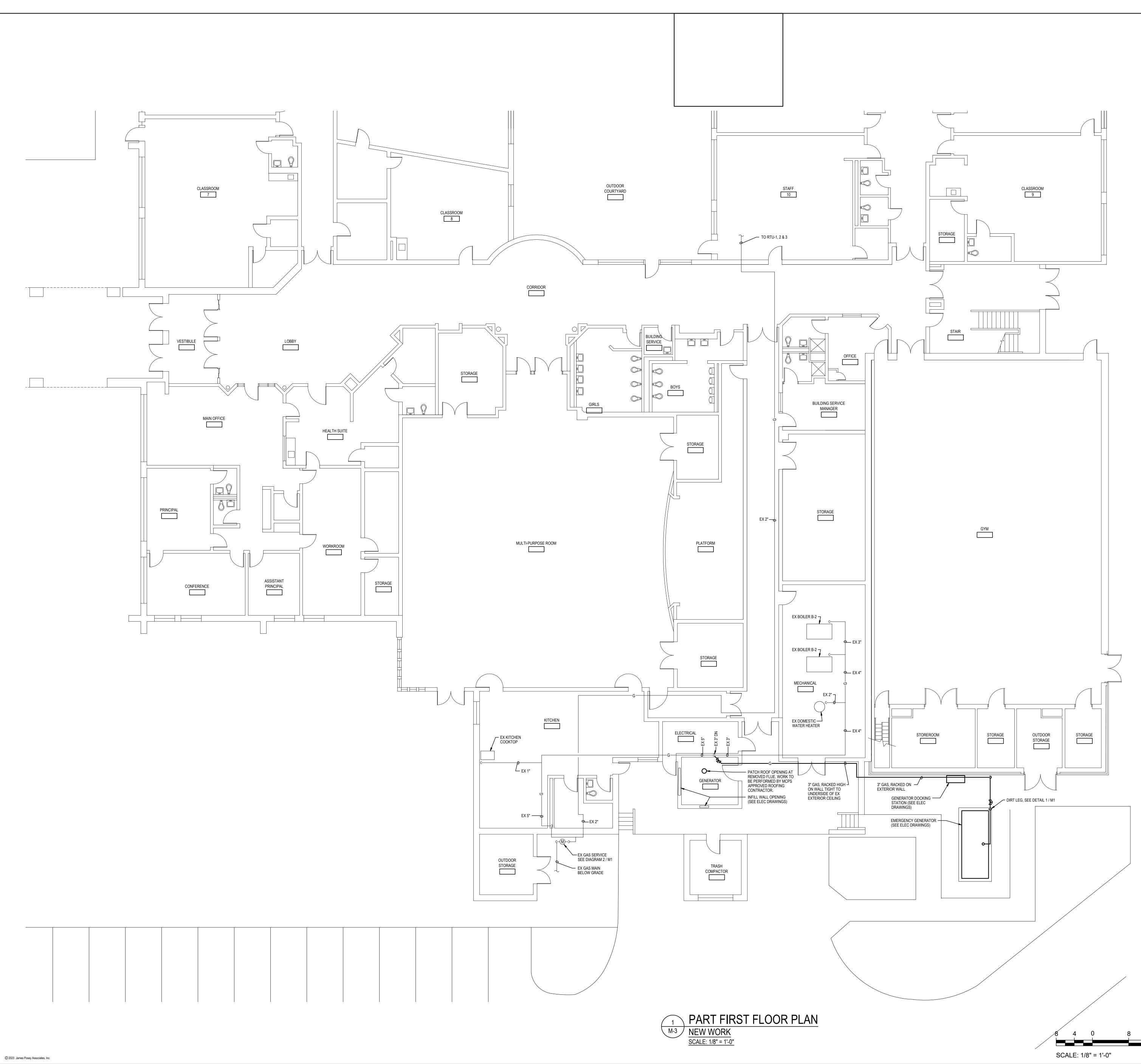






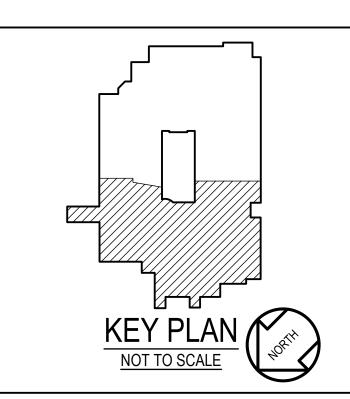
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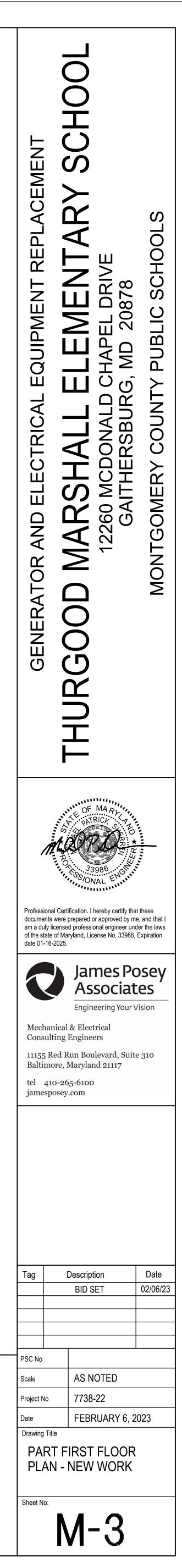


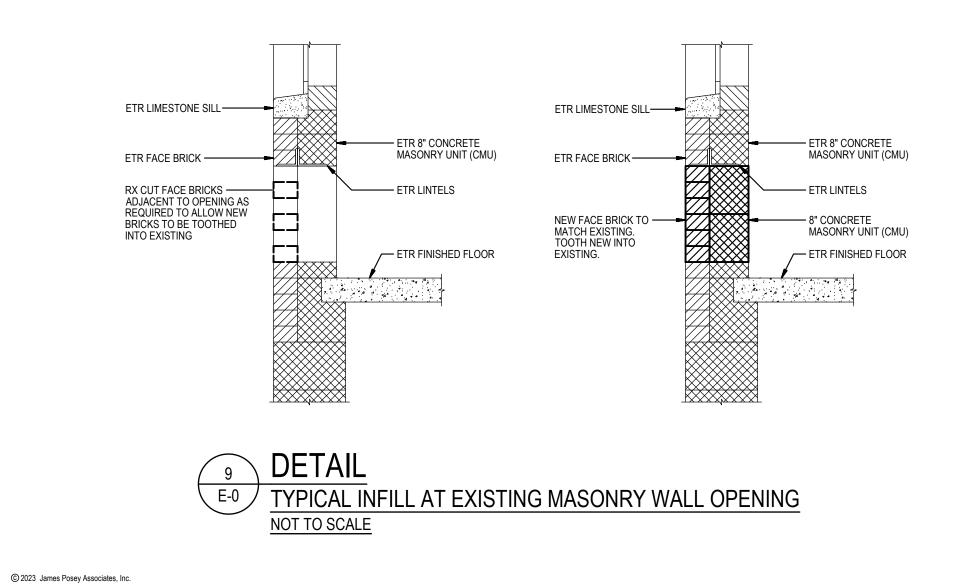


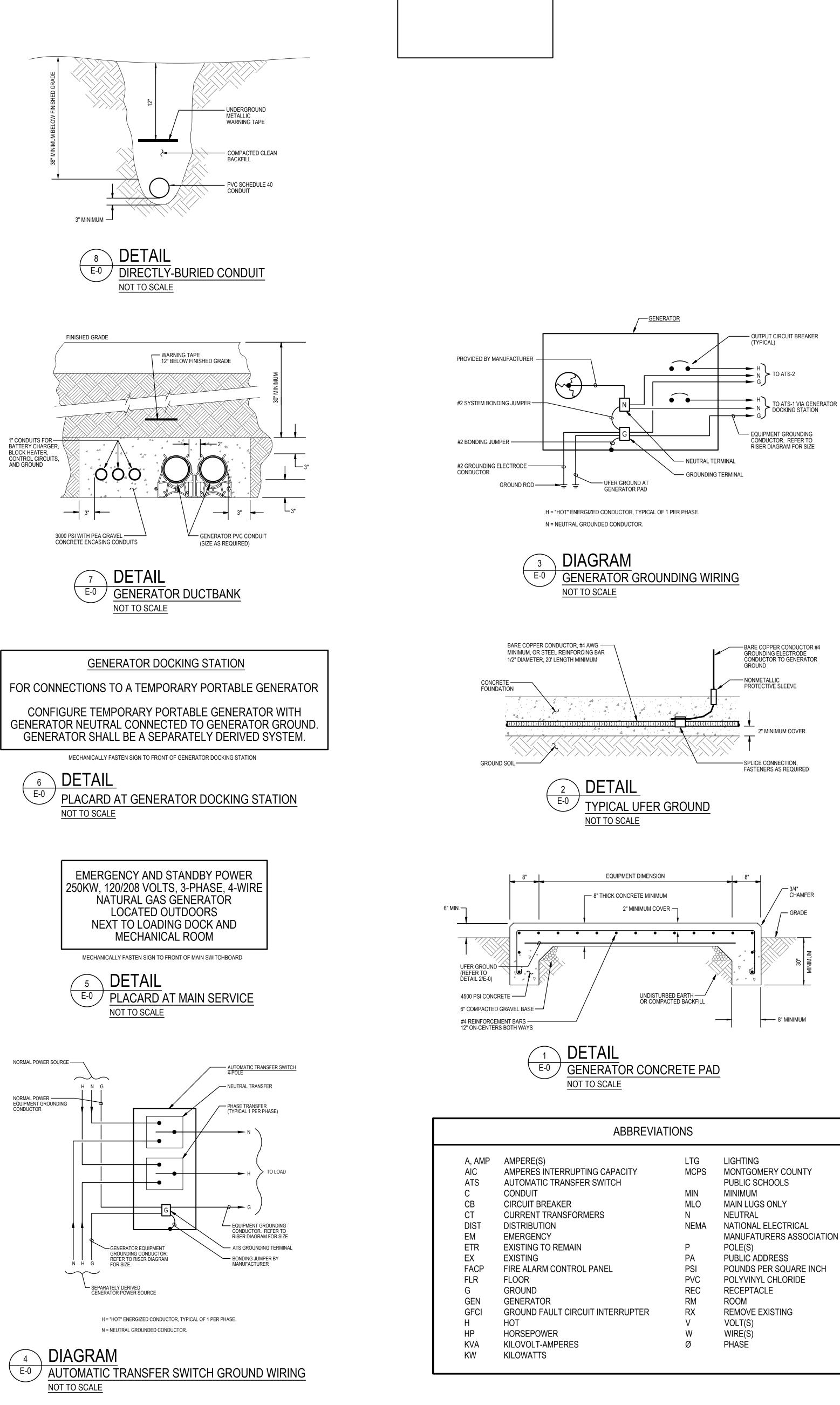
- A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD 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. DO NOT LOCATE PIPING ABOVE ELECTRICAL PANELS OR EQUIPMENT. C. UNLESS OTHERWISE NOTED, MECHANICAL/PLUMBING ITEMS SHOWN HEAVY (______) SHALL BE NEW AND MECHANICAL/PLUMBING ITEMS SHOWN LIGHT (______) ARE EXISTING TO REMAIN.
- D. NEW GENERATOR AND GAS PIPING TO BE INSTALLED BEFORE EXISTING IS REMOVED. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL PHASING INFORMATION.



16











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

NOTES:

A. PROVIDE DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT.

DISCONNECT AND REMOVE EXISTING WIRING IN CONDUIT.

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.

----EM----_____ ,-#+-___

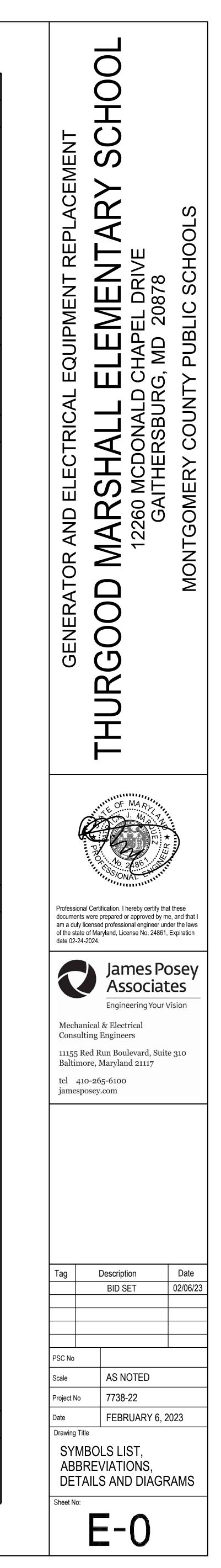
DISCONNECT AND REMOVE EXISTING HOMERUN WIRING IN CONDUIT BACK TO SOURCE. ----

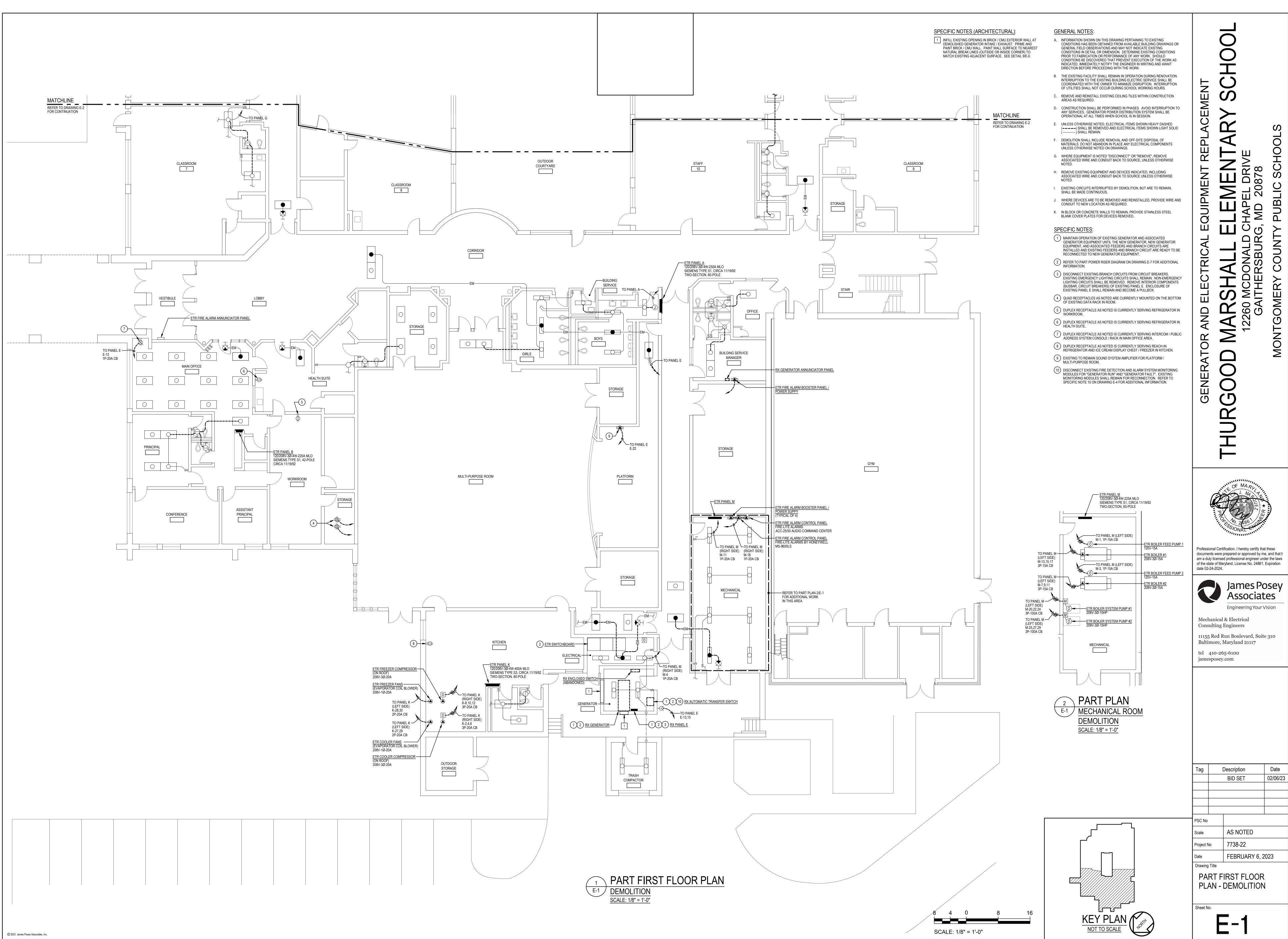
	EXISTING
\bigcirc	EXISTING TO REMAIN WALL OUTLET AND LIGHTING FIXTURE.
	EXISTING TO REMAIN CEILING OUTLET AND LIGHTING FIXTURE.
●┤	EXISTING TO REMAIN WALL OUTLET AND LIGHTING FIXTURE PREVIOUSLY ON NORMAL POWER CIRCUIT AND CHANGED TO GENERATOR POWER CIRCUIT.
	EXISTING TO REMAIN CEILING OUTLET AND LIGHTING FIXTURE ON GENERATOR POWER CIRCUIT, OR PREVIOUSLY ON NORMAL POWER CIRCUIT AND CHANGED TO GENERATOR POWER CIRCUIT.
SS ₃	EXISTING TO REMAIN WALL MOUNTED SWITCH.
$\bigotimes \dashv$	EXISTING TO REMAIN EXIT SIGN.
	EXISTING TO REMAIN 120/208V PANELBOARD, SURFACE OR RECESSED MOUNTED.
	EXISTING TO REMAIN EQUIPMENT CABINET AS INDICATED.
EM	EXISTING TO REMAIN WIRING IN CONDUIT.
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	EXISTING TO REMAIN WIRING IN CONDUIT CONTINUED.
	EXISTING TO REMAIN WIRING IN CONDUIT TURNING DOWN.
	EXISTING TO REMAIN HOMERUN WIRING IN CONDUIT BACK TO SOURCE.
J	EXISTING TO REMAIN CEILING MOUNTED JUNCTION BOX.
Ø	EXISTING MOTOR CONNECTION TO BE RECONNECTED WHERE INDICATED.
۲	EXISTING EQUIPMENT CONNECTION TO BE RECONNECTED WHERE INDICATED.
D	EXISTING TO REMAIN ENCLOSED SWITCH (DISCONNECT/SAFETY SWITCH).
Μ	EXISTING TO REMAIN MOTOR STARTER.
$\oplus$	EXISTING TO REMAIN DUPLEX RECEPTACLE.
Ø	EXISTING TO REMAIN DUPLEX RECEPTACLE ON GENERATOR CIRCUIT.
<b>+</b>	EXISTING TO REMAIN QUADRUPLEX (DOUBLE-DUPLEX) RECEPTACLE.
$\triangleright$	EXISTING TO REMAIN SPECIAL-PURPOSE RECEPTACLE.

POWER				
#	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.			
$\sim$	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. WIRING IN CONDUIT DESIGNATED WITH "EM" DENOTE EMERGENCY LIGHTING CIRCUIT. PROVIDE GROUND WIRES IN CONDUITS.			
	WIRING IN CONDUIT RUN BELOW GRADE.			
	WIRING IN CONDUIT CONTINUED.			
J	JUNCTION BOX WITH BLANK COVER PLATE.			
	ELECTRIC PANELBOARD (120/208V), SURFACE MOUNTED.			
	EQUIPMENT CABINET AS NOTED.			
ATS	AUTOMATIC TRANSFER SWITCH.			
СВ	ENCLOSED CIRCUIT BREAKER.			
D	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.			
Ø	MOTOR CONNECTION.			
۲	HARD-WIRED ELECTRICAL CONNECTION. CONNECT TO EQUIPMENT AS NOTED.			
SPD	SURGE PROTECTIVE DEVICE IN NEMA TYPE 1 ENCLOSURE, UNLESS OTHERWISE NOTED.			
€ ₩₽	DUPLEX RECEPTACLE (NEMA 5-20R) ON GENERATOR STANDBY POWER CIRCUIT, SURFACE WALL-MOUNTED 48" ABOVE FLOOR TO TOP OF BOX. RECEPTACLES DESIGNATED WITH A "WP" SHALL BE WEATHER-RESISTANT AND GROUND FAULT CIRCUIT INTERRUPTER (GFCI) TYPE RECEPTACLE (NEMA 5-20R) WITH WEATHERPROOF WHILE-IN-USE COVER. RECEPTACLES DESIGNATED WITH A "H" SHALL BE SHALL BE HOSPITAL GRADE TYPE.			
<del>#</del>	DOUBLE-DUPLEX (QUADRUPLEX) RECEPTACLE (NEMA 5-20R) ON GENERATOR STANDBY POWER CIRCUIT, SURFACE WALL-MOUNTED 48" ABOVE FLOOR TO TOP OF BOX.			
С	4-POLE CONTACTOR IN NEMA TYPE 1 ENCLOSURE. PROVIDE 2 #12 + #12 GROUND IN 3/4" CONDUIT FROM CONTACTOR TO EACH EMERGENCY BOILER SHUT-OFF SWITCH IN MAIN MECHANICAL ROOM, AND FROM CONTACTOR TO EACH SHUNT-TRIP CIRCUIT BREAKER IN PANEL SP SERVING BOILERS. MAKE CONNECTIONS NECESSARY FOR COMPETE INSTALLATION.			
FIRE DETECTION AND ALARM				
REFER TO SPECIFIC NOTE 10 ON DRAWING E-1 AND DRAWING E-4 FOR INFORMATION ON MODIFICATIONS				

TO EXISTING FIRE DETECTION AND ALARM SYSTEM.

IONS	
LTG	LIGHTING
MCPS	MONTGOMERY COUNTY
MIN	PUBLIC SCHOOLS MINIMUM
MLO	MAIN LUGS ONLY
N	NEUTRAL
NEMA	NATIONAL ELECTRICAL
	MANUFATURERS ASSOCIATION
Р	POLE(S)
PA	PUBLIC ADDRESS
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
REC	RECEPTACLE
RM	ROOM
RX	REMOVE EXISTING
V	VOLT(S)
W	WIRE(S)
Ø	PHASE







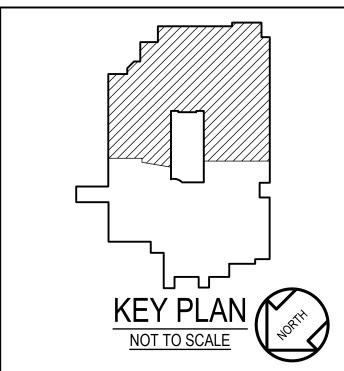


## GENERAL NOTES:

- 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 OF 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. WHERE EQUIPMENT IS NOTED "DISCONNECT" OR "REMOVE", REMOVE ASSOCIATED WIRE AND CONDUIT BACK TO SOURCE, UNLESS OTHERWISE NOTED.
- C. REMOVE EXISTING EQUIPMENT AND DEVICES INDICATED, INCLUDING ASSOCIATED WIRE AND CONDUIT BACK TO SOURCE UNLESS OTHERWISE
- NOTED. D. EXISTING CIRCUITS INTERRUPTED BY DEMOLITION, BUT ARE TO REMAIN, SHALL BE MADE CONTINUOUS.
- E. WHERE DEVICES ARE TO BE REMOVED AND REINSTALLED, PROVIDE WIRE AND CONDUIT TO NEW LOCATION AS REQUIRED.
- F. IN BLOCK OR CONCRETE WALLS TO REMAIN, PROVIDE STAINLESS STEEL BLANK COVER PLATES FOR DEVICES REMOVED.
- G. DEMOLITION SHALL INCLUDE REMOVAL AND OFF-SITE DISPOSAL OF MATERIALS. DO NOT ABANDON IN PLACE ANY ELECTRICAL COMPONENTS UNLESS OTHERWISE NOTED ON DRAWINGS.
- H. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN HEAVY DASHED (-----) SHALL BE REMOVED AND ELECTRICAL ITEMS SHOWN LIGHT SOLID ( — ) SHALL REMAIN.
- I. 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. J. REMOVE AND REINSTALL EXISTING CEILING TILES WITHIN CONSTRUCTION AREAS AS REQUIRED.
- K. 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.

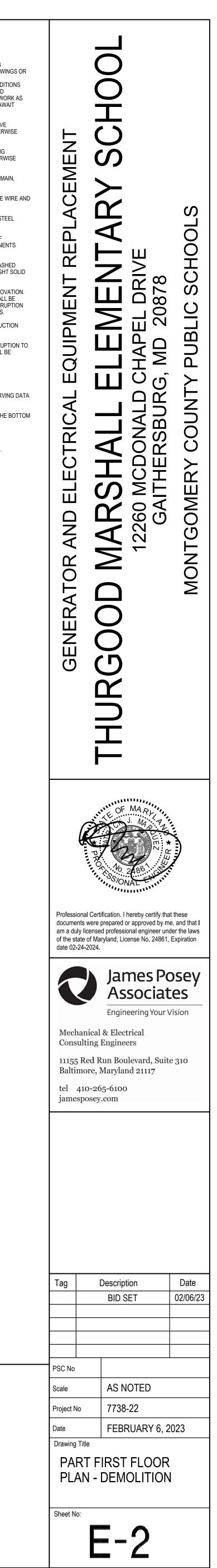
SPECIFIC NOTES:

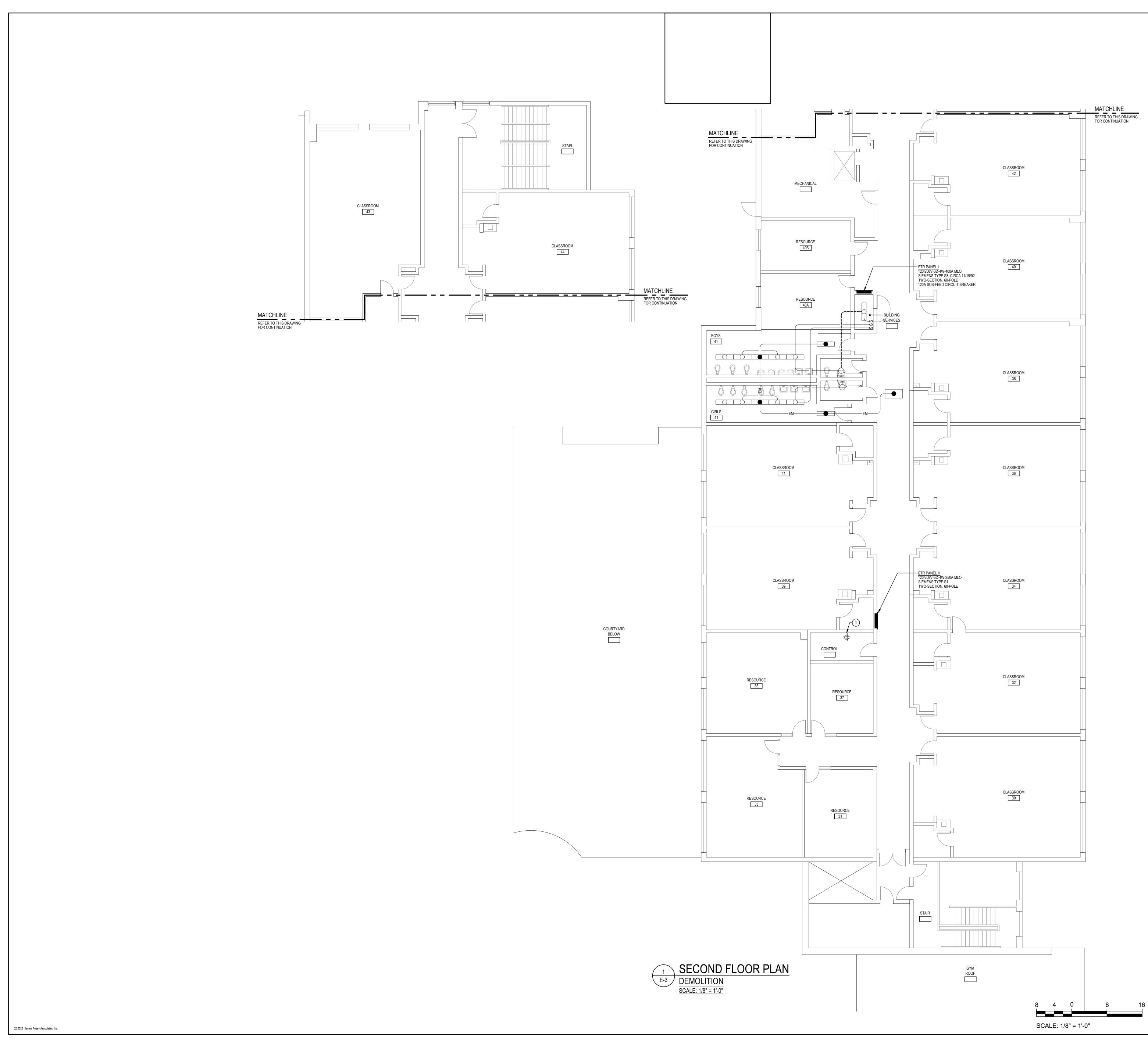
- 1 EXISTING DUPLEX RECEPTACLES AS NOTED ARE CURRENTLY SERVING DATA RACKS IN ROOM.
- 2 QUAD RECEPTACLES AS NOTED ARE CURRENTLY MOUNTED ON THE BOTTOM OF EXISTING DATA RACK IN ROOM.
- (3) EXISTING TO REMAIN DISCONNECT FOR ELEVATOR. (4) EXISTING TO REMAIN DISCONNECT FOR ELEVATOR CAB LIGHTING.



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

16

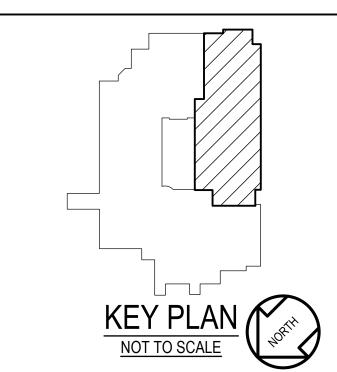


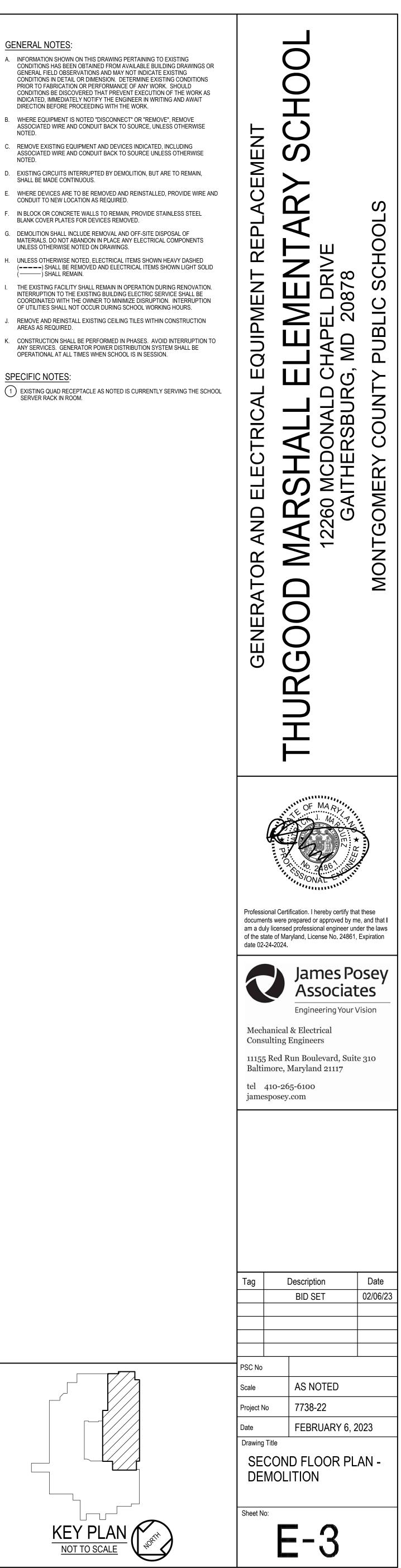


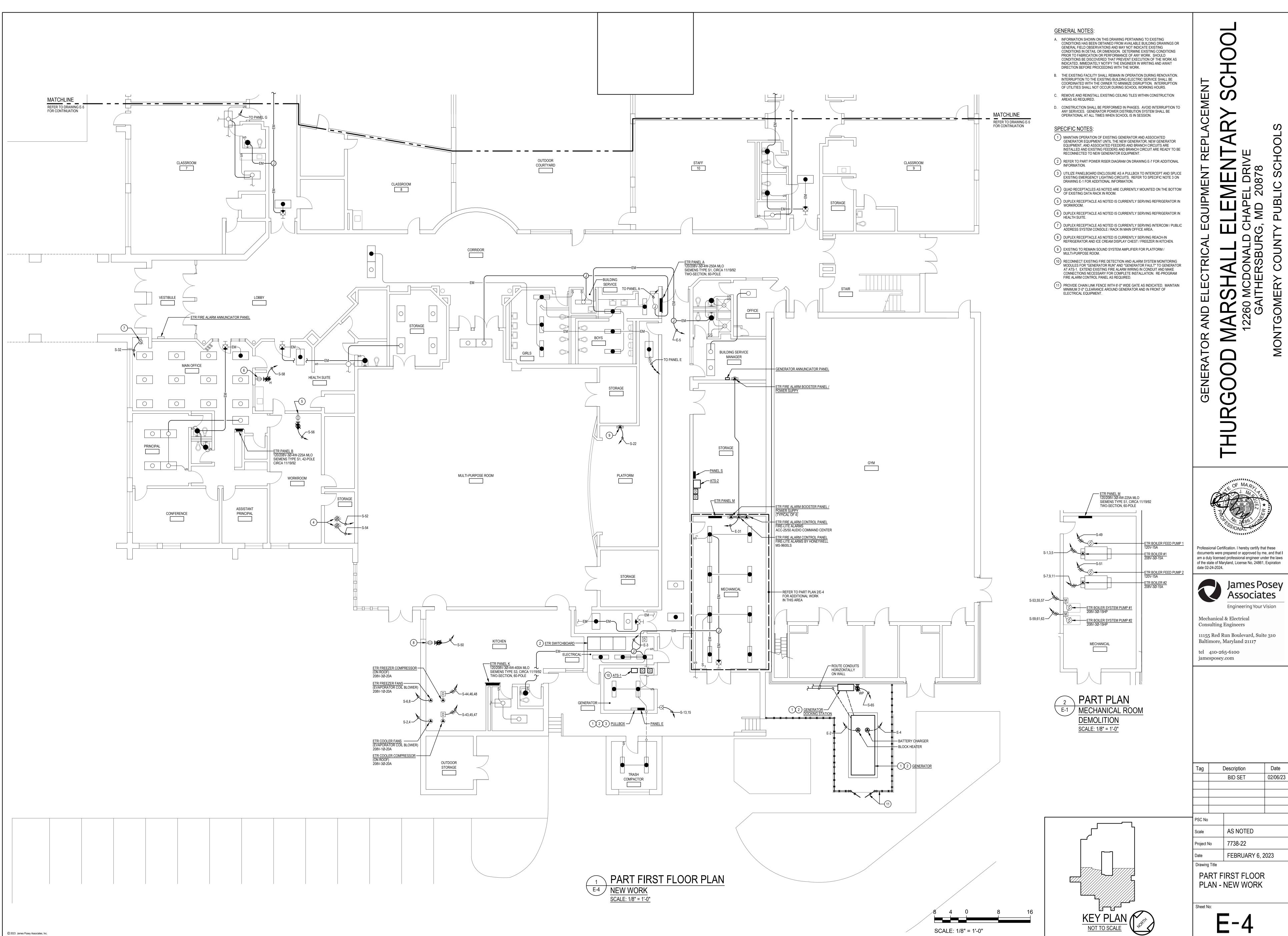
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- B. WHERE EQUIPMENT IS NOTED "DISCONNECT" OR "REMOVE", REMOVE ASSOCIATED WIRE AND CONDUIT BACK TO SOURCE, UNLESS OTHERWISE NOTED.
- C. REMOVE EXISTING EQUIPMENT AND DEVICES INDICATED, INCLUDING ASSOCIATED WIRE AND CONDUIT BACK TO SOURCE UNLESS OTHERWISE NOTED.
- D. EXISTING CIRCUITS INTERRUPTED BY DEMOLITION, BUT ARE TO REMAIN, SHALL BE MADE CONTINUOUS.
- E. WHERE DEVICES ARE TO BE REMOVED AND REINSTALLED, PROVIDE WIRE AND CONDUIT TO NEW LOCATION AS REQUIRED.
- F. IN BLOCK OR CONCRETE WALLS TO REMAIN, PROVIDE STAINLESS STEEL BLANK COVER PLATES FOR DEVICES REMOVED.
- G. DEMOLITION SHALL INCLUDE REMOVAL AND OFF-SITE DISPOSAL OF MATERIALS. DO NOT ABANDON IN PLACE ANY ELECTRICAL COMPONENTS UNLESS OTHERWISE NOTED ON DRAWINGS.
- H. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN HEAVY DASHED
   (----) SHALL BE REMOVED AND ELECTRICAL ITEMS SHOWN LIGHT SOLID
   (-----) SHALL REMAIN.
- I. 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. J. REMOVE AND REINSTALL EXISTING CEILING TILES WITHIN CONSTRUCTION AREAS AS REQUIRED.
- K. 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:







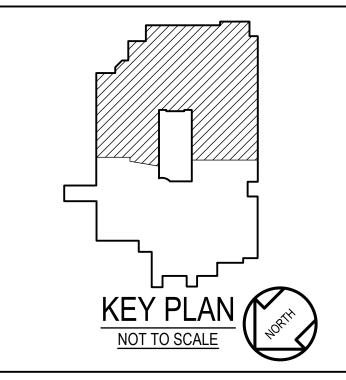


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- B. THE EXISTING FACILITY SHALL REMAIN IN OPERATION DURING RENOVA INTERRUPTION TO THE EXISTING BUILDING ELECTRIC SERVICE SHALL B COORDINATED WITH THE OWNER TO MINIMIZE DISRUPTION. INTERRUP OF UTILITIES SHALL NOT OCCUR DURING SCHOOL WORKING HOURS.
- C. REMOVE AND REINSTALL EXISTING CEILING TILES WITHIN CONSTRUCT AREAS AS REQUIRED. D. CONSTRUCTION SHALL BE PERFORMED IN PHASES. AVOID INTERRUPT ANY SERVICES. GENERATOR POWER DISTRIBUTION SYSTEM SHALL BE OPERATIONAL AT ALL TIMES WHEN SCHOOL IS IN SESSION.

#### SPECIFIC NOTES:

- 1 EXISTING DUPLEX RECEPTACLES AS NOTED ARE CURRENTLY SERVING RACKS IN ROOM.
- 2 QUAD RECEPTACLES AS NOTED ARE CURRENTLY MOUNTED ON THE F OF EXISTING DATA RACK IN ROOM.
- 3 EXISTING TO REMAIN DISCONNECT FOR ELEVATOR.
- (4) EXISTING TO REMAIN DISCONNECT FOR ELEVATOR CAB LIGHTING.



16

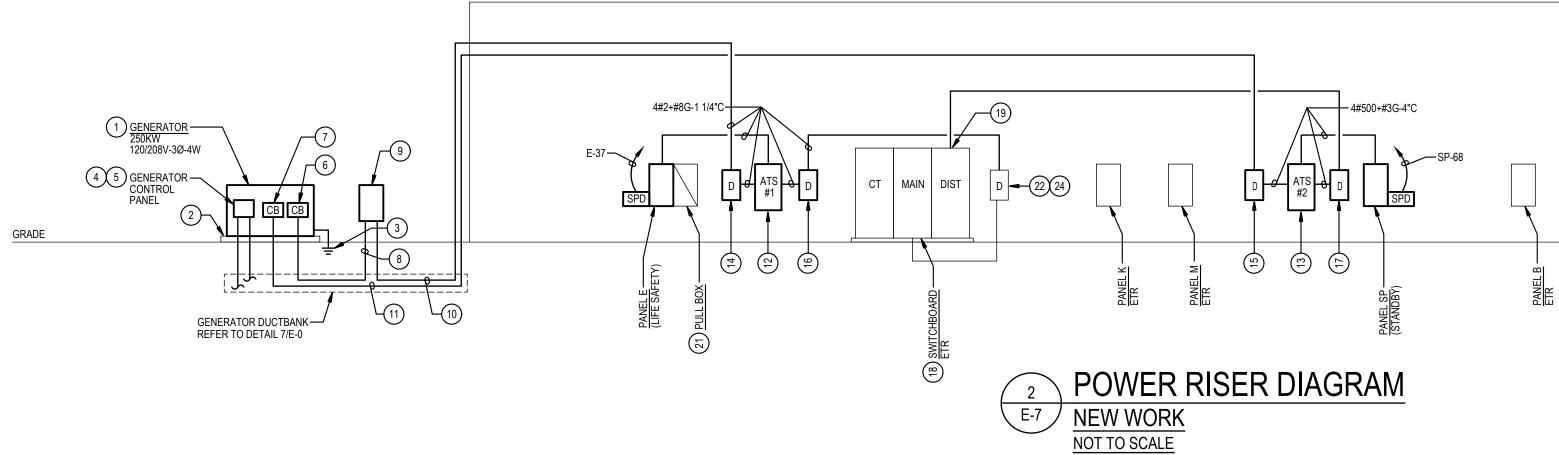
SCALE: 1/8" = 1'-0"

VINGS OR DORK AS WAIT DVATION. L BE RUPTION TO BE VING DATA HE BOTTOM	GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT		I HURGOOD MARSHALL ELEMEN I ARY SCHOOL	12260 MCDONALD CHAPEL DRIVE	GAITHERSBURG, MD 20878	MONTGOMERY COUNTY PUBLIC SCHOOLS
	docume am a du	ents were uly license		or approve onal engin	ed by me neer und	e, and that I er the laws
	date 02 Mecl Cons 11155 Balti tel	hanical sulting 5 Red F more, 2	Jar As Engin & Elect Engine Run Bou Marylan	nes soc eering trical ers ilevard, ad 2111	S PC iat Your V	Sey es ision
	Tag		Descript BID S			Date 02/06/23
	PSC No					
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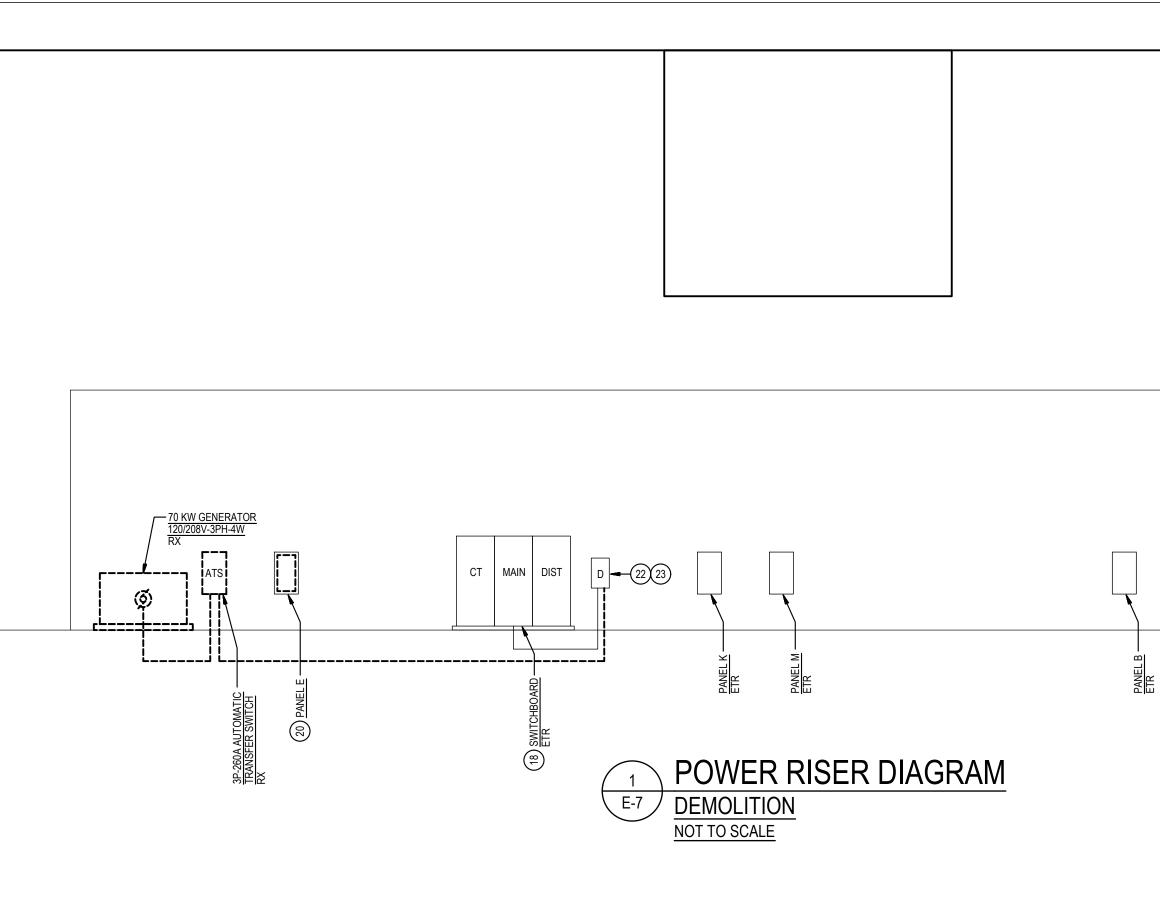




		120 / 208 VOLTS	3 PHA	SE 4	4 WIF	RE			100	) an	1P B	US		SURFACE MO	DUNTED		
	POLE	DESCRIPTION	WIRE/	KVA/Ø							POLE	DESCRIPTION	WIRE/	BRE			
	4		CONDUIT	POLE		A	Ø	В	Ø	С	Ø	CUIT				POLE	
1	1	SPARE			20	-	1.5		0.1			2	2	GENERATOR BLOCK HEATER	#10-3/4"C	1	20
3	3	EM LTG ELEC,GEN,TRASH	#10-3/4"C	1	20			1.0	0.1			4	4	GEN BATTERY CHARGER	#10-3/4''C	1	20
5	5	EM LTG BOYS & GIRLS AREA A	#10-3/4"C	1	20					0.4	-	-	6	SPACE	-	1	-
7	7	EM LTG BOYS & GIRLS AREA D	#8-3/4"C	1	20	0.8	-					-	8	SPACE	-	1	-
9	9	EM LTG BOYS & GIRLS 2ND FLR	#8-3/4''C	1	20			0.5	-			-	10	SPACE	-	1	-
11	11	SPARE		1	20					-	-	-	12	SPACE	-	1	-
13	13	SPARE		1	20	-	-					-	14	SPACE	-	1	-
15	15	SPARE		1	20			-	-			-	16	SPACE	-	1	-
17	17	SPARE		1	20					0.5	-	-	18	SPACE	-	1	-
19	19	SPARE		1	20	-	-					-	20	SPACE	-	1	-
21	21	EX EM LTG LIBRARY SECTION	NOTE (2)	1	20			1.2	-			-	22	SPACE	-	1	-
23	23	EX EM LTG 2ND FLOOR	NOTE (2)	1	20					1.2	-	24	24	SPARE		1	20
25	25	EX EM LTG BOYS & GIRLS	NOTE (2)	1	20	1.2	-					26	26	SPARE		1	20
27	27	SPARE		1	20			-	-			28	28	SPARE		1	20
29	29	SPARE		1	20					-	1.2	30	30	EX EM LTG CORRIDOR 1	NOTE (2)	1	20
31	31	FIRE ALARM CONTROL PANEL	#10-3/4''C	1	20	0.5	1.2					32	32	EX EM LTG CORRIDOR 5	NOTE (2)	1	20
33	33	EX EM LTG MAIN LOBBY	NOTE (2)	1	20			1.2	1.2			34	34	EX EM LTG CORR 2 & KITCHEN	NOTE (2)	1	20
35	35	EX EM LTG GYM	NOTE (2)	1	20					1.2	1.2	36	36	EX EM LTG MULTI-PURPOSE	NOTE (2)	1	20
37	37	EXTERNAL SURGE	4#8+	3	30	-	1.2					38	38	EX EM LTG CORRIDOR 3	NOTE (2)	1	20
-	39	PROTECTIVE DEVICE	#8G-					-	-			40	40	SPACE			-
-	41	-	1"C							-	-	42	42	SPACE			-
		l				2.5	3.9	3.9	1.3	3.3	2.4		1				
		CONNECTED LOAD =	17.3	KVA		6	.4	5	.2	5	.7						
														MAIN FUSE	100		3
		DEMAND LOAD =	16.8	KVA													
		MIN AIC RATING =	65,000	AMPS	SYMN	IETRIC	CAL							LOCATION	GENERATO	OR RM	

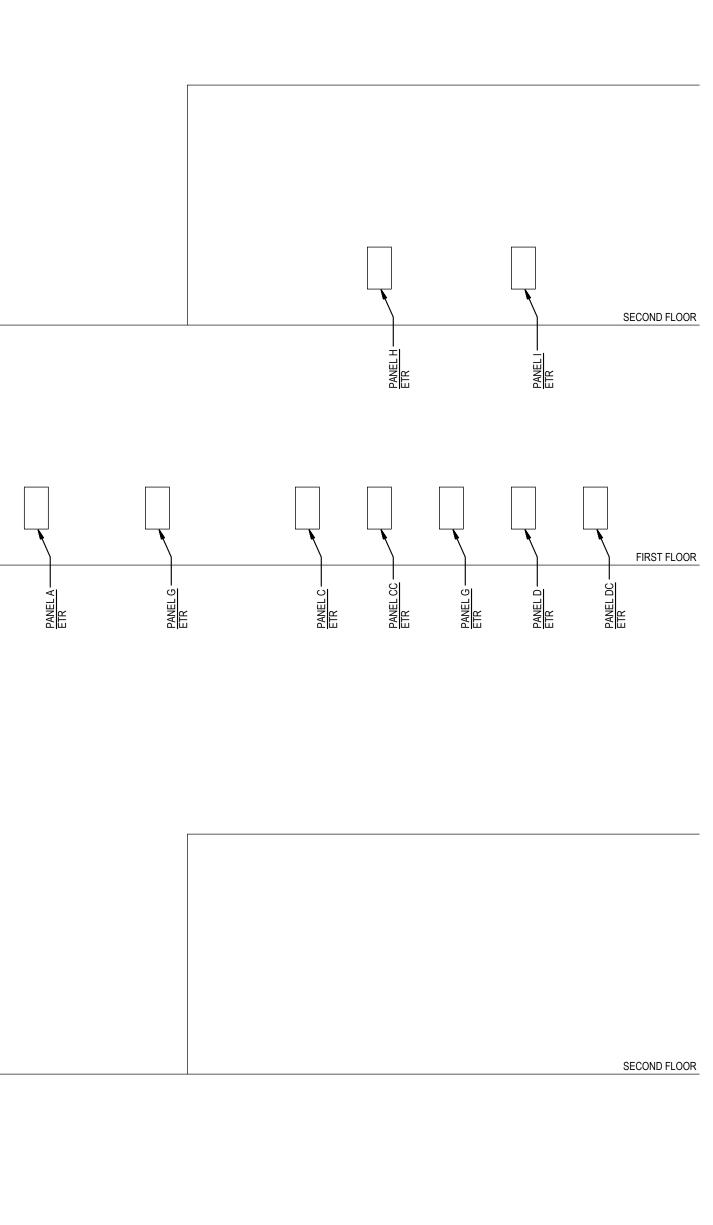
GRADE

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CRE_POLE         DESCRIPTION         WREF         REFLEXER         VALUE         CRE_POLE         DESCRIPTION         WREF         REFLEXENCE           1         1         ETR BOLER #1         3#12+         3         1         1         1         2         2         ETR GOLER ANS         2#10+#103         2         2         ETR GOLER ANS         2#10+#103         2         3         3         0         0         0         2         2         ETR GOLER ANS         2#10+#103         2         3         3         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0			120 / 208 VOLTS	3 PHAS	SE 4	1 WIF	RE			400	) an	IP B	US		SURFACE MO	DUNTED		
1         1         2         2         2         2         2         2         2         FR COULER FANS         2010+000         2         3           3         5         3         410-5         3         10         13         0         0         4         5         34°C         2         2         2         2         2         2         2         2         2         2         2         2         2         10         10         13         0         0         4         3         3         1         10         13         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10 <td< th=""><th></th><th>POLE</th><th></th><th></th><th></th><th></th><th></th><th>~</th><th></th><th></th><th></th><th>~</th><th></th><th>POLE</th><th>DESCRIPTION</th><th></th><th></th><th></th></td<>		POLE						~				~		POLE	DESCRIPTION			
i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i		1							В	0	С	Ø		2				<u>: AN</u> 20
-         5         -         -         -         -         1         1         1         1         1         1         1         1         1         2         -         2         -         3         -         1         -         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1		<u> </u>			5		1.0	1.5	1.0	12			2				2	
7       7       8 TR BOLLER #2       3 #12+       3       15       10       13       0       0       0       0       -34*C       10       10       10       10       ELEVATOR SHLINT TRP       #10-34*C       1         11       13       13       17       16       34*C       1       10       12       12       ETR REC MSLITRALER       2#0+#106       2       2       5       33.12       1       14       14       ETR REC MSLITRALER       2#0+#106       2       2       5       34*C       1       20       1       13       13       12       14       14       ETR REC MSLITRALER       2#10+#106       2       2       2       ETR REC MSLITRALER       2#10+#106       2       34*C       1       20       0.4       14       14       ETR REC MSLITRALER       2#10+#106       2       34*C       1       20       0.4       1       20       SPARE       1       1       20       0.4       2       2       2       ETR REC MSLITRALER       2#10+#106       2       2       2       ETR REC MSLITRALER       2#10+#106       2       2       2       2       2       ETR REC MSLITRALER       2#10+#106       2       2			-						1.0	1.5	10	13	6		ETR EREEZER EANS		2	2
-         0         10         10         -         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10 <td></td> <td>-</td> <td></td> <td></td> <td>3</td> <td>15</td> <td>10</td> <td>13</td> <td></td> <td></td> <td>1.0</td> <td>1.5</td> <td>-</td> <td></td> <td></td> <td>_</td> <td>2</td> <td></td>		-			3	15	10	13			1.0	1.5	-			_	2	
-       11       34°C       0       1       0       5       12       12       12       12       12       12       12       12       12       12       12       12       12       12       12       12       12       12       12       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14	-				U		1.0	1.0	10	_			10	-	ELEVATOR SHUNT TRIP		1	2
13       13       13       ETR REC MSL TRALER       249.496C       2       50       3.3       1.2       1       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14	_		-						1.0		10	0.5					1	2
-         15         34°C         -         16         -         16         -         34°C         1           17         17         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T <t< td=""><td></td><td></td><td>ETR REC MSL TRAILER</td><td></td><td>2</td><td>50</td><td>3.3</td><td>1.2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2</td><td>2</td></t<>			ETR REC MSL TRAILER		2	50	3.3	1.2									2	2
19       19       ETR REC TV HEAD-NRM (3)       #9-3/4*'C       1       20       0.2       0       0       0       20       SPARE       1       10         23       SPARE       1       20       0       0.5       0.2       22       22       ETR REC OFFICE (3)       #10-3/4*'C       1         23       SPARE       1       20       0.4       0.4       24       24       ETR REC OFFICE (3)       #10-3/4*'C       1         24       SPARE       1       20       0.4       0.4       28       28       ETR REC CFICE (3)       #10-3/4*'C       1         27       27       ETR REC (3)       #10-3/4*'C       1       20       0.4       0.2       0.30       SPARE       1       1         33       SPARE       1       20       0       0       0.4       0.4       28       SPARE       1       1         33       SPARE       1       20       0       0       0.4       0.4       9.4       SPARE       1       1         34       SPARE       1       20       0       0       1.5       1.5       1.5       1.5       1.5       1.5       1.5	-	15							3.3	1.2			-					
21       SPARE       1       20       1       0.5       0       22       22       ETR PLATFORM SOUND       #10-34*C       1         25       SPARE       1       20       0.4       0.4       24       24       ETR REC OFFCE (3)       #10-34*C       1         27       27       ETR REC 2ND FLOOR (3)       #8-34*C       1       20       0.4       0.2       0.4       28       28       ETR REC OFFCE (3)       #10-34*C       1         29       29       ETR REC (3)       #10-34*C       1       20       0.2       0.4       28       28       ETR REC OFFCE (3)       #10-34*C       1         31       SPARE       1       20       0       0.2       0.2       30       30       SPARE       1         33       SPARE       1       20       0       0       34       34       SPARE       1       1         33       SPARE       1       20       0       12       12       40       40       ETR LOAD (3)       2#10+#10G       2       20       12       12       12       44       ETR FEC ZRC COMPRESOR       3#12+       3       3#12+       3       34*12+       3	17	17	ETR LTG ELEVATOR CAB	#10-3/4"C	1	20					0.4			18	SPARE		1	2
23       SPARE       1       20       1       20       0.4       0.4       24       24       ETR REC OFFICE (3)       #10-34*C       1         27       27       ETR REC 2ND FLOOR (3)       #8-34*C       1       20       0.4       0.4       0.2       0.8       ETR REC OFFICE (3)       #10-34*C       1         28       28       ETR REC 2ND FLOOR (3)       #8-34*C       1       20       0.4       0.2       0.4       0.2       28       28       ETR REC OFFICE (3)       #10-34*C       1         31       SPARE       1       20       0.4       0.2       0.4       0.3       30       SPARE       1       1         33       SPARE       1       20       0       0.4       0.4       34       43       SPARE       1       1         37       SPARE       1       20       0       0       12       12       14       40       00       ETR REC CMD(3)       2#10+#10G       2       11       12       12       40       40       ETR REC DAD (3)       2#10+#10G       2       12       12       40       ETR REC CMDRESSOR       3#12+       3       3       3#12+       3       3#12+<	19	19	ETR REC TV HEAD-IN RM (3)	#8-3/4"C	1	20	0.2							20	SPARE		1	2
25         SPARE         1         20         0.4         2         26         28         ETR REC TELEPHONE (3)         #10-3/4"C         1           29         29         ETR REC (3)         #10-3/4"C         1         20         0.2         0.4         28         28         ETR REC OFFICE (3)         #10-3/4"C         1           29         29         ETR REC (3)         #10-3/4"C         1         20         0         0.2         0.4         28         28         ETR REC OFFICE (3)         #10-3/4"C         1           31         SPARE         1         20         4         4         34         SPARE         1           33         SPARE         1         20         4         4         SPARE         1           37         SPARE         1         20         4         4         4         ETR COAD (3)         2#10+#10G         2         20         1.5         4         44         ETR CADA (3)         2#10+#10G         2         20         1.5         4         44         ETR RECEZCOMPRESSOR         #12G-         34/4"C         4         ETR REC DEPLOMP 1         #12G-         34/4"C         4         4         ETR BOLER FEED PUMP 1         #12G- </td <td></td> <td>21</td> <td>SPARE</td> <td></td> <td>1</td> <td>20</td> <td></td> <td></td> <td></td> <td>0.5</td> <td></td> <td></td> <td>22</td> <td>22</td> <td>ETR PLATFORM SOUND</td> <td>#10-3/4"C</td> <td>1</td> <td>2</td>		21	SPARE		1	20				0.5			22	22	ETR PLATFORM SOUND	#10-3/4"C	1	2
27       27       ETR REC 2ND FLOOR (3)       #3-34*C       1       20       0       0       28       28       ETR REC 0FFICE (3)       #10-34*C       1         28       29       ETR REC (3)       #10-34*C       1       20       0       0       28       28       ETR REC 0FFICE (3)       #10-34*C       1         31       SPARE       1       20       0       0       32       32       SPARE       1         33       SPARE       1       20       0       0       36       36       SPARE       1         35       SPARE       1       20       0       1       20       0       38       38       SPARE       1         34       SPARE       1       20       1       1       20       12       12       40       40       ETR LOAD (3)       2#10+#100       2         -41       -34*C       -3/4*C       1       15       15       -44       44       44       ETR REC CATR ACK AREA & #10-34*C       1         -44       43       ETR COOLER COMPRESSOR       3#12+       3       20       1.5       1.5       1.5       1.5       1.5       3.6       50		23	SPARE		1	20						0.4	24	24	ETR REC OFFICE (3)	#10-3/4"C	1	2
29       29       ETR REC (3)       #10-3/4*°C       1       20       1       0       0       30       30       SPARE       1       1         31       SPARE       1       20       1       1       20       1       1       32       32       SPARE       1       1         35       SPARE       1       20       1       20       1       1       20       38       34       SPARE       1       1         37       SPARE       1       20       1       2       1       38       38       SPARE       1       1         38       SPARE       1       20       1       1       20       1       12       1       38       SPARE       1       1         39       ETR LOAD (3)       2#10+#10G       2       20       1.5       1.5       1.5       1.6       44       44       ETR COOLER COMPRESSOR       3#12+       3       20       1.5       1.5       1.5       1.5       5       50       50       RC REPRIS. KITCHEN (1)       #10-3/4*°C       1         44       44       ETR BOLER FEED PUMP 1       #12-34*°C       1       1.5       1.5		25	SPARE		1	20		0.4					26	26	ETR REC TELEPHONE (3)	#10-3/4"C	1	2
31       SPARE       1       20       1       20       1       20       1       30       32       32       SPARE       1       1         35       SPARE       1       20       1       20       1       34       34       SPARE       1         36       SPARE       1       20       1       20       1       20       38       38       SPARE       1       1         37       SPARE       1       20       1       2       1       1       20       40       36       36       SPARE       1       1         38       38       SPARE       1       20       1       12       12       40       40       ETR LOAD (3)       2#10+#106       2       34"C       34"C       34"C       43       ETR COOLER COMPRESSOR       3#12+       3       2       1.5       1.5       1.5       1.5       44       ETR FREEZER COMPRESSOR       3#12+       34"C       45       34"C	27	27	ETR REC 2ND FLOOR (3)	#8-3/4"C	1	20			0.2	0.4			28	28	ETR REC OFFICE (3)	#10-3/4"C	1	2
33       SPARE       1       20       1       20       1       20       1       20       1       20       1       36       36       SPARE       1       1         37       SPARE       1       20       1       20       1       20       1       20       1       38       38       SPARE       1       1         37       SPARE       1       20       1       12       12       12       38       38       SPARE       1       1         43       39       ETR COAD (3)       2#10+#106       2       20       1       12       12       40       40       40       ETR CADA (3)       2#10+#106       2       3/4"C	29	29	ETR REC (3)	#10-3/4"C	1	20					0.2		30	30	SPARE		1	2
35       SPARE       1       20       1       20       1       20       1       36       36       36       SPARE       1       1         37       SPARE       1       20       1       12       12       12       12       38       38       SPARE       2#10+#106       2       20       1       12       12       12       12       40       40       40       ETR LOAD (3)       2#10+#106       2       20       1       12       12       12       40       40       40       ETR LOAD (3)       2#10+#106       2       30''       7       7       7       44       44       ETR COOLER COMPRESSOR       3#12+       3       20       1.5       1.5       1.5       44       44       ETR FREEZER COMPRESSOR       #123-       7       7       7       7       7       7       7       7       7       7       7       7       7       7       7       7       7       7       7       7       7       7       7       7       7       7       7       7       7       7       7       7       7       7       7       7       7       7       7       7 <td></td> <td>31</td> <td>SPARE</td> <td></td> <td>1</td> <td>20</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>32</td> <td>32</td> <td>SPARE</td> <td></td> <td>1</td> <td>2</td>		31	SPARE		1	20							32	32	SPARE		1	2
37         SPARE         1         20         1         20         1         20         1         38         38         SPARE         1         1           39         39         ETR LOAD (3)         2#10+#10G         2         20         1         12         12         40         40         ETR LOAD (3)         2#10+#10G         2         3/4"C         -         44         44         ETR FREEZER COMPRESSOR         3#12+         3         -         3/4"C         -         44         44         ETR FREEZER COMPRESSOR         3#12+         3           49         49         ETR BOILER FEED PUMP 1         #122-3/4"C         1         15         0.7         0.5         -         48         50         50         FR REC REFRIG. KITCHEN (1)         #10-3/4"C         1           53         53         ETR BOILER FEED PUMP 2         #12.3/4"C         1         15         0.7         1.0         5.5 <td< td=""><td></td><td>33</td><td>SPARE</td><td></td><td>1</td><td>20</td><td></td><td></td><td></td><td></td><td></td><td></td><td>34</td><td>34</td><td>SPARE</td><td></td><td>1</td><td>2</td></td<>		33	SPARE		1	20							34	34	SPARE		1	2
39       39       ETR LOAD (3)       2#10+#106       2       20       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1 <td></td> <td>35</td> <td>SPARE</td> <td></td> <td>1</td> <td>20</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>36</td> <td>36</td> <td>SPARE</td> <td></td> <td>1</td> <td>2</td>		35	SPARE		1	20							36	36	SPARE		1	2
-       41       -34*C       -       1       1       1       1       2       -42       -34*C       -34*C         43       43       ETR COOLER COMPRESSOR       3#12+       3       20       1.5       1.5       1.5       -       46       #12G-       34*C       -       46       44       44       44       ETR FREEZER COMPRESSOR       3#12+       3       3#12+       3       3#12+       3       3#12+       3       3#12+       3       3#12+       3       3#12+       3       3#12+       3       3#12+       3       3#12+       3       3#12+       3       3#12+       3       3#12+       3       3#12+       3       3#12+       3       3#12+       3       3#12+       3       3#12+       3       3#12+       3       3#12+       3       3#12+       3       3#12+       3       3#12+       3       3#12+       3       3#12+       3       3#12+       3       3#12+       3       3#12+       3       3#12+       3       3#12+       3       3#12+       3       3#12+       3       3#12+       3       3#12+       3       3#12+       3       3#10+       3       5       5 </td <td></td> <td>37</td> <td>SPARE</td> <td></td> <td>1</td> <td>20</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>38</td> <td>38</td> <td>SPARE</td> <td></td> <td>1</td> <td>2</td>		37	SPARE		1	20							38	38	SPARE		1	2
43       43       ETR COOLER COMPRESSOR       3#12+       3       20       1.5       1.5       1.5       1.5       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6 </td <td>39</td> <td>39</td> <td>ETR LOAD (3)</td> <td>2#10+#10G</td> <td>2</td> <td>20</td> <td></td> <td></td> <td>1.2</td> <td>1.2</td> <td></td> <td></td> <td>40</td> <td>40</td> <td>ETR LOAD (3)</td> <td>2#10+#10G</td> <td>2</td> <td>2</td>	39	39	ETR LOAD (3)	2#10+#10G	2	20			1.2	1.2			40	40	ETR LOAD (3)	2#10+#10G	2	2
-       45       -       45       -       46       -       46       -       46       -       46       -       46       -       47         49       49       49       ETR BOLER FEED PUMP 1       #12-3/4"C       1       15       0.7       0.5       0.7       0.5       0.7       10       50       50       REC REFRIG. KITCHEN (1)       #10-3/4"C       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1	-	41		-3/4"C							1.2	1.2	-	42		-3/4"C		
-       47       -       48       -       48       -       34"C       -       15       1.5       -       48       -       34"C       -       11       15       -       48       -       34"C       11       11       15       1.5       1.5       1.5       50       50       50       FER CREFRIG, KITCHEN (1)       #10-3/4"C       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1 <t< td=""><td>43</td><td>43</td><td></td><td>3#12+</td><td>3</td><td>20</td><td>1.5</td><td>1.5</td><td></td><td></td><td></td><td></td><td>44</td><td>44</td><td>ETR FREEZER COMPRESSOR</td><td>3#12+</td><td>3</td><td>2</td></t<>	43	43		3#12+	3	20	1.5	1.5					44	44	ETR FREEZER COMPRESSOR	3#12+	3	2
49       49       ETR BOLER FEED PUMP 1       #12-3/4"C       1       15       0.7       0.6       V       V       50       50       REC REFRIG. KITCHEN (1)       #10-3/4"C       1         51       51       ETR BOLER FEED PUMP 2       #12-3/4"C       1       15       V       0.7       1.0       V       52       52       ETR REC DATA RACK AREA B       #10-3/4"C       1         53       53       ETR BOLER SYSTEM PUMP #1       3#4+       3       100       V       V       V       55       1.0       54       54       ETR REC DATA RACK AREA B       #10-3/4"C       1         5       55       FTR BOLER SYSTEM PUMP #1       3#4+       3       100       V       V       5.5       1.0       56       56       REC REFRIG. HEALTH (1)       #10-3/4"C       1         5       57       57       1.0       V       V       5.5       1.0       56       56       REC REFRIG. HEALTH (1)       #10-3/4"C       1         5       58       ETR BOLER SYSTEM PUMP #2       3#4+       3       100       V       5.5       1.0       60       60       ETR REC DATA RACK AREA CC       #8-3/4"C       1         6       REC GENERATOR	-			#12G-					1.5	1.5			-	46		#12G-		
51       51       ETR BOLLER FEED PUMP 2       #12-3/4"C       1       15       0.7       1.0       52       52       ETR RE DATA RACK AREA B       #10-3/4"C       1         53       53       53       ETR BOLLER SYSTEM PUMP #1       3#4+       3       100       55       1.0       54       54       ETR REC DATA RACK AREA B       #10-3/4"C       1         -       55       57       1       1.1/4"C       55       0.5       0.5       5       56       56       REC REFRIG. MEALTH (1)       #10-3/4"C       1         59       59       ETR BOLLER SYSTEM PUMP #2       3#4+       3       100       2       55       1.0       60       60       ETR REC DATA RACK AREA CC       #834"C       1         61       1.1/4"C       48G-       1.1/4"C       55       1.0       2       62       62       62       ETR REC DATA RACK AREA CC       #834"C       1         63       ETR BOLLER SYSTEM PUMP #2       3#4+       3       100       2       55       1.0       60       60       ETR REC DATA RACK AREA CC       #834"C       1         64       REC GENERATOR       #10-3/4"C       1       20       2       1       0       66 <td>-</td> <td>47</td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1.5</td> <td>1.5</td> <td>-</td> <td>48</td> <td></td> <td>-</td> <td></td> <td></td>	-	47		_							1.5	1.5	-	48		-		
53       53       ETR BOILER SYSTEM PUMP #1       3#4+       3       100       1       5       1.0       54       54       ETR REC DATA RACK AREA B       #10-3/4"C       1         5       57       1-11/4"C       1       55       0.5       0.5       58       56       56       REC REFRIG. WORKRM (1)       #10-3/4"C       1         59       59       ETR BOILER SYSTEM PUMP #2       3#4+       3       100       55       0.5       0.5       1.0       56       56       REC REFRIG. HEALTH (1)       #10-3/4"C       1         61       1-1/4"C       1       16.5       0.5       0.5       1.0       56       56       66       REC DATA RACK AREA CC       #8.3/4"C       1         63       61       1-1/4"C       1       20       1       5.5       1.0       66       66       REC DATA RACK AREA CC       #8.3/4"C       1         65       65       REC GENERATOR       #10-3/4"C       1       20       1       66       66       REC SERVER 2ND FLR       #8-3/4"C       1         66       66       REC GENERATOR       #10-3/4"C       1       20       -       1       68       68       82TERNAL SURGE <td< td=""><td></td><td></td><td></td><td></td><td>1</td><td></td><td>0.7</td><td>0.5</td><td></td><td></td><td></td><td></td><td></td><td></td><td>. ,</td><td></td><td>1</td><td>2</td></td<>					1		0.7	0.5							. ,		1	2
·       55       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·									0.7	1.0							1	2
-       57       1-1/4"C       1       1-1/4"C       1       55       0.5       0.5       0.5       58       58       REC REFRIG. HEALTH (1)       #10-3/4"C       1         59       59       57       57       57       57       57       57       57       57       57       57       57       57       58       58       REC REFRIG. HEALTH (1)       #10-3/4"C       1         59       59       57       61       55       1.0       5.5       1.0       60       60       ETR REC DATA RACK AREA CC       #8-3/4"C       1         -       63       1-1/4"C       1       5.5       1.0       0       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64	53		ETR BOILER SYSTEM PUMP #1		3	100					5.5	1.0					1	2
59       59       59       57       59       57       59       57       10       60       60       60       61       61       61       61       61       61       61       61       63       61       61       63       61       61       62       62       62       62       61       62       62       61       61       61       61       61       61       61       61       61       61       61       61       61       61       63       63       61       61       61       61       62       62       62       61       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64       64 <th< td=""><td></td><td></td><td>-</td><td></td><td></td><td></td><td>5.5</td><td>0.5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td>2</td></th<>			-				5.5	0.5									1	2
-       61         -       61         -       63         63       1-1/4"C         65       65         65       70         67       67         69       3#1/0+       3       125       9.0       -       10       66       66       REC GENERAL SURGE       4#8+       3         67       67       67       ELEVATOR (2)       3#1/0+       3       125       9.0       -       10       10       66       66       REC GENERAL SURGE       4#8+       3         69       2       71       1.1/2"C       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>5.5</td> <td>0.5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td>2</td>									5.5	0.5							1	2
-       63       1-1/4"C       I       I       5.5       1.0       I       64       64       REC DATA RACK AREA CC       #8-3/4"C       1         65       65       REC GENERATOR       #10-3/4"C       1       20       I       I       0.2       1.0       66       66       REC SERVER 2ND FLR       #8-3/4"C       1         67       67       ELEVATOR (2)       3#1/0+       3       125       9.0       -       I       0.2       1.0       66       66       REC SERVER 2ND FLR       #8-3/4"C       1         69       ELEVATOR (2)       3#1/0+       3       125       9.0       -       I       9.0       -       I       68       68       EXTERNAL SURGE       ##8+       3         -       69       #66-       1-1/2"C       I       9.0       -       I       9.0       -       70       PROTECTIVE DEVICE       #86-       1"C			ETR BOILER SYSTEM PUMP #2		3	100					5.5	1.0					1	2
65       65       REC GENERATOR       #10-3/4"C       1       20       1       0       0       0.2       1.0       66       66       REC SERVER 2ND FLR       #8-3/4"C       1         67       67       67       ELEVATOR (2)       3#1/0+       3       125       9.0       -       1       68       68       EXTERNAL SURGE       4#8+       3         -       69       #66-       1-1/2"C       1       0       0       0       -       70       PROTECTIVE DEVICE       #86-       1"C       1			-				5.5	1.0									1	2
67       67       67       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68       68 <td< td=""><td></td><td></td><td></td><td></td><td>4</td><td>00</td><td></td><td></td><td>5.5</td><td>1.0</td><td>0.0</td><td>10</td><td></td><td></td><td></td><td></td><td>1</td><td>2</td></td<>					4	00			5.5	1.0	0.0	10					1	2
-       69         -       71         -       71         -       71         -       1-1/2"C         27.7       7.7         28.9       8.6       25.5         7.1       7.7         27.7       7.7         28.9       8.6       25.5         7.9       35.4         37.5       33.4					-						0.2	1.0					1	2
-       71       1-1/2"C       Image: style="text-align: center;">9.0       -       -       72       1"C       1"C       1"C         CONNECTED LOAD =       106.3       KVA       27.7       7.7       28.9       8.6       25.5       7.9       35.4       37.5       33.4       MAIN BREAKER       400       AMPS         DEMAND LOAD =       92.5       KVA       KVA<			Televator (2)		3	125	9.0	-	0.0				68				3	3
CONNECTED LOAD =       106.3       KVA       KVA       35.4       37.5       33.4         DEMAND LOAD =       92.5       KVA       KVA       KVA       KVA       KVA       KVA			-						9.0	-	0.0		-			_		
CONNECTED LOAD =       106.3       KVA       35.4       37.5       33.4         MAIN BREAKER       400       AMPS         DEMAND LOAD =       92.5       KVA	-	71		1-1/2 C			27.7	77	28.0	86		- 7 9	-	12		TC T		
DEMAND LOAD = 92.5 KVA			CONNECTED LOAD =	106.3	KVA		-											
			DEMAND LOAD =	92.5	KVA								•		MAIN BREAKER	400	AMPS	3
MIN AIC RATING =65,000 AMPS SYMMETRICAL LOCATION STORAGE			MIN AIC RATING =			SYMN	IETRIC	CAL							LOCATION	STORAG	ε	_

(3) TRACE EXISTING BRANCH CIRCUIT FROM REMOVED PANEL E AND INTERCEPT & SPLICE EXISTING BRANCH CIRCUIT IN CEILING SPACE.



AT T

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.

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 1/E-0 FOR ADDITIONAL INFORMATION. (3) REFER TO DIAGRAM 3/E-0 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-700A 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-400A 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 TWO SETS: (4 #400 + #1/0 GROUND IN 3" CONDUIT) BETWEEN 3P-700A ELECTRONIC TRIP CIRCUIT BREAKER AT GENERATOR SERVING EMERGENCY (LIFE SAFETY) LOADS AND GENERATOR DOCKING STATION, SIZED FOR LOAD BANK CONNECTION.
- (9) PROVIDE 700A GENERATOR DOCKING STATION IN NEMA TYPE 3R ENCLOSURE, EQUAL TO TRYSTAR DBDS-5 WITH TWO 3P-100A CIRCUIT BREAKERS, KIRK KEY INTERLOCKED, FOR CONNECTIONS TO ATS-1 AND PORTABLE MOBILE GENERATOR. FEEDER FOR LOAD BANK CONNECTION SHALL BE SIZED FOR 700A. PROVIDE SIGN ON FRONT OF GENERATOR DOCKING STATION TO READ AS FOLLOWS "SERVING EMERGENCY TRANSFER SWITCH (ATS-1) IN ELECTRICAL ROOM, 120/208V, 3-PHASE, 4-WIRE".
- 10 PROVIDE 4 #2 + #8 GROUND IN 1 1/4" CONDUIT. REFER TO DETAIL 7/E-0 FOR GENERATOR DUCTBANK.
- (11) PROVIDE 4 #500 + #2 GROUND IN 4" CONDUIT. REFER TO DETAIL 7/E-0 FOR GENERATOR DUCTBANK. (12) PROVIDE 4P-100A AUTOMATIC TRANSFER SWITCH (ATS) TO SERVE
- EMERGENCY (LIFE SAFETY) LOADS. ATS SHALL HAVE A MINIMUM UL 1008 WITHSTAND AND CLOSING RATING OF 65K AIC. PROVIDE NAMEPLATE ON FRONT OF ATS TO READ "EMERGENCY ATS". (13) PROVIDE 4P-400A AUTOMATIC TRANSFER SWITCH (ATS) TO SERVE STAND-BY
- LOADS. ATS SHALL HAVE A MINIMUM UL 1008 WITHSTAND AND CLOSING RATING OF 65K AIC. PROVIDE NAMEPLATE ON FRONT OF ATS TO READ "STANDBY ATS".
- (14) PROVIDE 3P-100A-250V NON-FUSED ENCLOSED SWITCH WITH NEUTRAL KIT IN NEMA TYPE 1 ENCLOSURE TO SERVE GENERATOR EMERGENCY / LIFE SAFETY LOADS.

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- (15) PROVIDE 3P-400A-250V NON-FUSED ENCLOSED SWITCH WITH NEUTRAL KIT IN NEMA TYPE 1 ENCLOSURE TO SERVE GENERATOR STAND-BY LOADS.
- (16) PROVIDE 3P-100A-250V FUSED ENCLOSED SWITCH WITH NEUTRAL IN NEMA TYPE 1 ENCLOSURE. PROVIDE WITH 100A CURRENT-LIMITING FUSES.
- (17) PROVIDE 3P-100A-250V FUSED ENCLOSED SWITCH WITH NEUTRAL IN NEMA TYPE 1 ENCLOSURE. PROVIDE WITH 400A CURRENT-LIMITING FUSES.
- (18) EXISTING SWITCHBOARD IS BY SIEMENS, TYPE FC-II, CIRCA DECEMBER 1992, RATED AT 120/208V, 3-PHASE, 4-WIRE, 65,000 AIC, 2500A MAINS WITH 2500A MAIN FUSED SWITCH.
- (19) PROVIDE 3P-400A CIRCUIT BREAKER IN SPACE OF DISTRIBUTION SECTION OF EXISTING SWITCHBOARD. CIRCUIT BREAKER TYPE AND AIC RATING SHALL MATCH EXISTING.
- (20) REFER TO SPECIFIC NOTE 3/E-1 FOR ADDITIONAL INFORMATION.
- 1) REFER TO SPECIFIC NOTE 3/E-4 FOR ADDITIONAL INFORMATION.
- 22) ETR 3P-400A FUSED ENCLOSED SWITCH. 3) REMOVE 400A FUSES FROM ETR ENCLOSED SWITCH.
- (24) PROVIDE 100A FUSES IN ETR ENCLOSED SWITCH. TYPE TO MATCH EXISTING.

