Generator and Electrical Equipment Replacement SPRINGBROOK HIGH SCHOOL

201 VALLEY BROOK DRIVE, SILVER SPRING, MD 20904 Montgomery County Public Schools

11155 RED RUN BOULEVARD, SUITE 310 BALTIMORE, MARYLAND 21117 PHONE: 410.265.6100

VICINITY PLAN

AERIAL SITE PLAN

DRAWING INDEX

PROFESSIONAL CERTIFICATION

These contract documents for Springbrook High 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, License No. 24861, Expiration date: 02-24-2024.



C2.11 DETAILS

TITLE SHEET

COVER SHEET

DIAGRAMS, SYMBOLS AND ABBREVIATIONS PART PLAN - FIRST FLOOR DEMOLITION

PART PLANS - FIRST FLOOR AND MEZZANINE DEMOLITION

ELECTRICAL

SYMBOLS LIST, ABBREVIATIONS, DIAGRAMS, AND DETAILS

REFERENCE PLAN - SECOND AND THIRD FLOORS PART FLOOR PLANS - DEMOLITION AND NEW WORI

PART FLOOR PLANS - DEMOLITION AND NEW WORK PART FLOOR PLANS - DEMOLITION AND NEW WORK PART FLOOR PLANS - DEMOLITION AND NEW WORK

APPLICABLE CODES & STANDARDS

INTERNATIONAL BUILDING CODE INTERNATIONAL MECHANICAL CODE

INTERNATIONAL PLUMBING CODE WITH WSSC AMENDMENTS

ENERGY STANDARD FOR BUILDINGS EXCEPT LOW RISE RESIDENTIAL BUILDINGS

NATIONAL ELECTRICAL CODE ASHRAE 2017-2020 HANDBOOKS



Mechanical & Electrical **Consulting Engineers**

jamesposey.com

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

BOARD OF EDUCATION

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MRS. REBECCA SMONDROWSKI DISTRICT 2 STUDENT MEMBER MR. ARVIN KIM

CODE ANALYSIS

CODE ANALYSIS EXISTING BLDG PROPOSED ALTERATION **IBC OCCUPANCY CLASSIFICATION** THE SCOPE OF THIS WORK IS TO REPLACE EXISTING TYPE OF CONSTRUCTION **GENERATOR AND REVISE** NORMAL LIGHTING CIRCUITS NUMBER OF STORIES ABOVE GRADE IN TOILET ROOMS, BOILER ROOM AND ELEC ROOM TO EMERGENCY LIGHTING. THERE IS NO INCREASE IN FLOOR AREA, NO SITE FULLY SPRINKLERED (Y/N) CHANGES, NO CHANGE IN CLASSIFICATION OR TYPE OF TOTAL BUILDING FLOOR AREA 305.006 SF

CONSTRUCTION.

HIGH RISE (Y/N)

FIRE ALARM (Y/N)

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

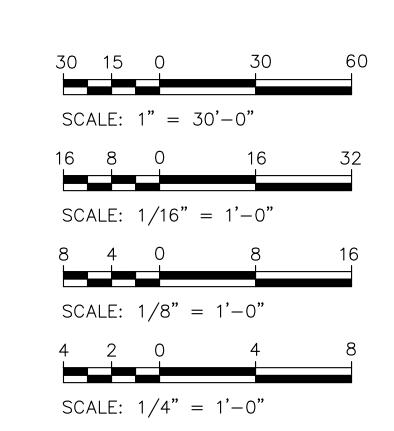
PROJECT SCOPE SHALL INCLUDE THE WORK FOR PHASE 2

PROVIDE NEW GENERATOR AND ASSOCIATED EQUIPMENT

- CONNECT EXISTING BOILERS AND ASSOCIATED PUMPS TO THE NEW STANDBY PANELBOARD.
- CONNECT EXISTING KITCHEN REFRIGERATION EQUIPMENT TO NEW STANDBY PANELBOARD.
- CONNECT EXISTING 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

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



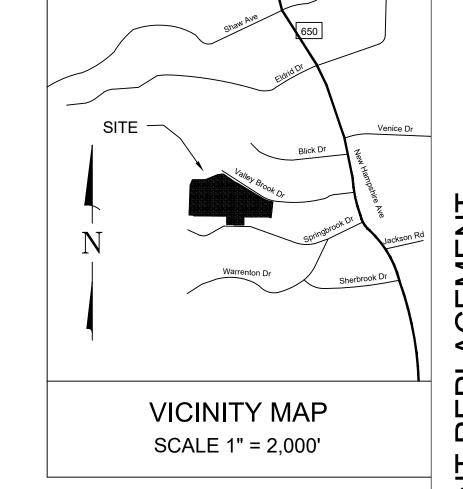
CAUTION: EXCEPT WHERE DIMENSIONS ARE INDICATED. GRAPHIC SCALE MUST BE USED.

Tag	I	Description	Date
		BID SET	06/20/23
PSC No			
Scale		AS NOTED	
Project No)	7753-22	
Date		JUNE 20, 2023	
Drawing ⁻	Title		
TITLE	E SH	IEET	

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SPRINGBROOK HIGH SCHOOL

201 VALLEY BROOK DR, SILVER SPRING, MD 20904



Engineering Your Vision

CIVIL ENGINEERING LAND SURVEYING

LAND PLANNING

Phone: 301.670.0840 www.mhgpa.com

Description

BID SET

C0.01

CONSTRUCTION NOTES

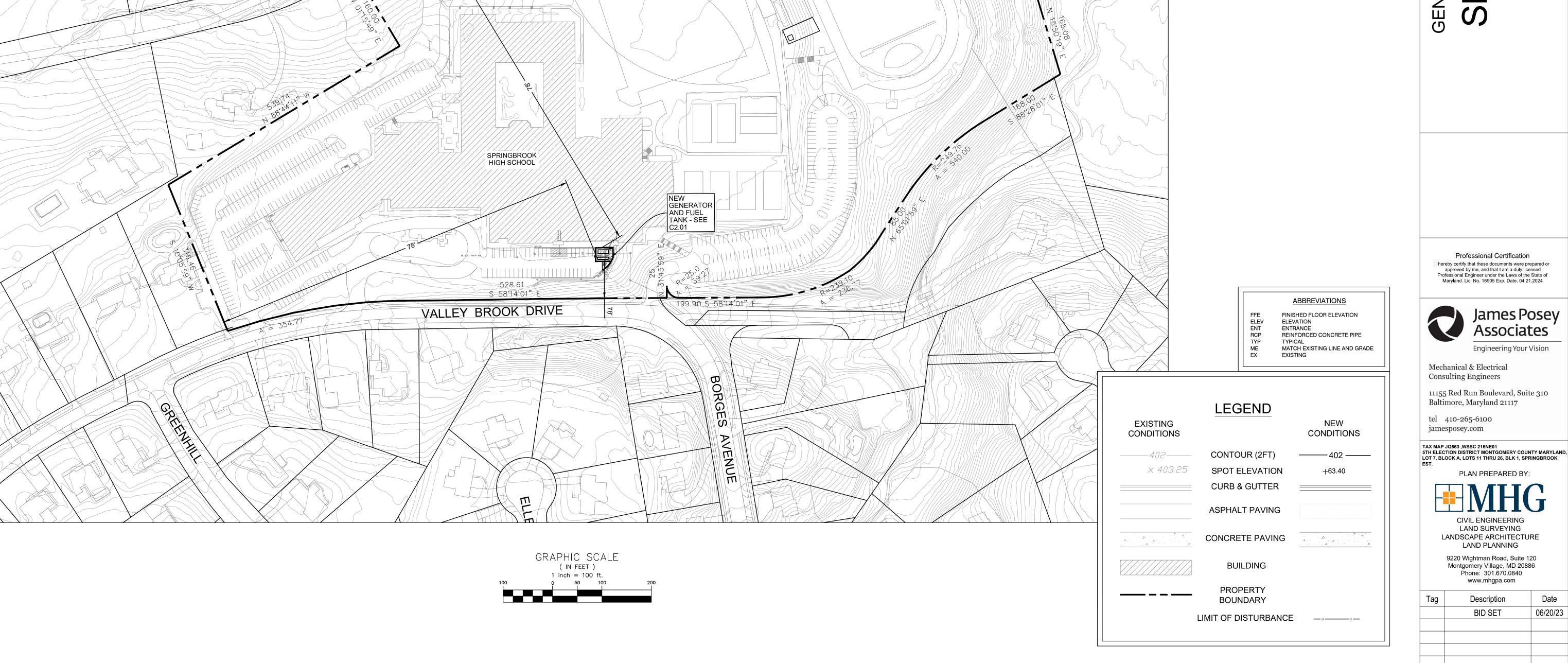
- 1. CALL "MISS UTILITY" ("ONE CALL" AT 811 OR 1-800-257-7777) TWO FULL BUSINESS DAYS PRIOR TO BEGINNING ANY CONSTRUCTION. HOMEOWNERS & REGISTERED EXCAVATORS MAY FILE REQUESTS ONLINE AT http;//www.missutility.net
- 2. SHOULD THE CONTRACTOR DISCOVER DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS, THIS OFFICE IS TO BE NOTIFIED IMMEDIATELY TO RESOLVE THE SITUATION. SHOULD THE CONTRACTOR MAKE FIELD CORRECTIONS OR ADJUSTMENTS WITHOUT NOTIFYING THE ENGINEER, THEN THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR
- 3. ASPHALT PAVING AND CONCRETE FOR CURB, WALKS AND RAMPS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MARYLAND STATE HIGHWAY ADMINISTRATION (MSHA) SPECIFICATIONS.
- 4. WHEN TYING INTO EXISTING PAVING, SAW CUT PAVING EDGE TO PROVIDE A CLEAN, STRAIGHT AND VERTICAL JOINT. WHEN REMOVING EXISTING CURB OR SIDEWALK, REMOVE TO THE NEAREST JOINT.
- 5. FINISHED GRADES REFER TO THE TOP OF SOD, TOPSOIL, PAVEMENT OR WALKS. ALLOW FOR THICKNESS AS APPLICABLE WHEN GRADING.
- 6. SLOPE SMOOTHLY BETWEEN INDICATED ELEVATIONS TO PROVIDE POSITIVE DRAINAGE OF ALL AREAS GRADED OR DISTURBED BY THIS CONSTRUCTION. MAXIMUM SLOPE ON EARTH-BANKS SHALL BE NO GREATER THAN 3:1.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING AND DOCUMENTING ALL REQUIRED INSPECTIONS AND CONSTRUCTION
- 8. ALL CURB RADII ARE DIMENSIONED AT FACE OF CURB UNLESS OTHERWISE
- 9. ALL ON-SITE CURB & GUTTER SHALL BE 6" STANDARD EXCEPT WHERE
- 10. PROPOSED SITE LIGHTING, ELECTRIC, COMMUNICATION, & GAS WORK IS SHOWN FOR INFORMATIONAL PURPOSES ONLY. REFER TO MECHANICAL, ELECTRICAL & PLUMBING PLANS. CONTRACTOR RESPONSIBLE FOR COORDINATING NEW WORK WITH UTILITY COMPANIES TO AVOID EXISTING AND PROPOSED UTILITIES AT POINT(S) OF CROSSING.
- 11. REFER TO ARCHITECTURAL DRAWINGS FOR ALL BUILDING DIMENSIONS.

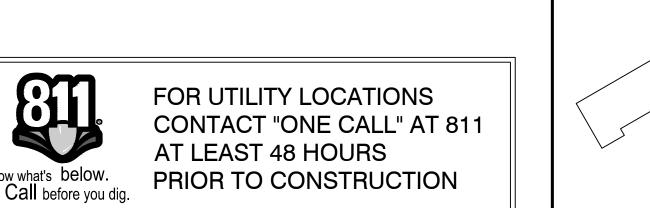
SITE NOTES

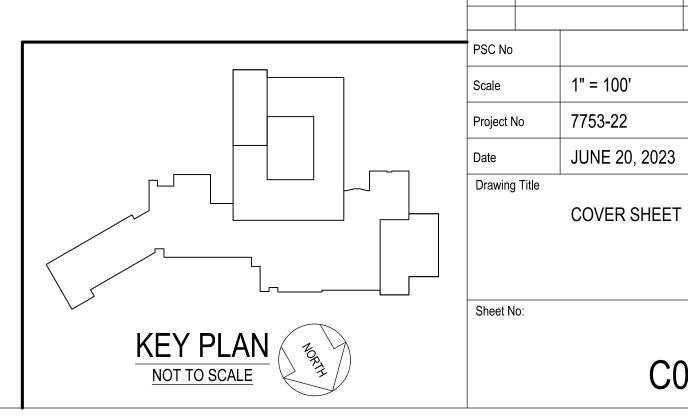
- 1. TOPOGRAPHY AROUND AREA OF DEVELOPMENT BASED ON A TOPOGRAPHIC SURVEY PREPARED BY MHG, IN MAY OF 2023. ALL ELSE FROM MONTGOMERY PLANNING GIS AND MAPPING DATA DOWNLOADS. 2. BOUNDARY INFORMATION FOR PROPERTY FROM A 1992 SITE GRADING PLAN FOR THE PROJECT TITLED
- MODERNIZATION AND ADDITIONS, PREPARED BY SEYBOLT, GORE, NEWQUIST & BERLINSKY CIVIL ENGINEERS & LAND SURVEYORS. BOUNDARY FOR NEIGHBORING PROPERTIES FROM MONTGOMERY PLANNING GIS AND MAPPING DATA DOWNLOADS. 3. EXISTING UTILITIES SHOWN ARE BASED ON VISIBLE SURVEYED APPURTENANCES AND PAINT MARKINGS,
- ACCESSIBLE STRUCTURES AND PLANS OF RECORD. 4. THE PROJECT IS LOCATED WITHIN THE BOUNDARIES OF THE WHITE OAK MASTER PLAN.
- 5. THE PROJECT IS LOCATED WITHIN GROWTH TIER I: AREAS CURRENTLY SERVED BY COMMUNITY (PUBLIC) 6. THE PROJECT IS LOCATED WITHIN WATER SERVICE CATEGORY W-1: AREAS SERVED BY COMMUNITY
- (PUBLIC) SYSTEMS THAT ARE EITHER EXISTING OR UNDER CONSTRUCTION. 7. THE PROJECT IS LOCATED WITHIN SEWER SERVICE CATEGORY S-1: AREAS SERVED BY COMMUNITY
- (PUBLIC) SYSTEMS THAT ARE EITHER EXISTING OR UNDER CONSTRUCTION. 8. THE PROJECT IS LOCATED WITHIN THE NORTHWEST BRANCH WATERSHED.
- 9. THE PROJECT IS NOT BE SUBJECT TO MANDATORY REFERRAL REVIEW BY THE MARYLAND-NATIONAL
- 10. THE PROJECT IS NOT SUBJECT TO THE PROVISIONS OF THE MONTGOMERY COUNTY FOREST CONSERVATION LAW, CHAPTER 22-A.
- 11. THE TOTAL LAND DISTURBANCE ASSOCIATED WITH THE PROPOSED CONSTRUCTION IS LESS THAN 5000 SQUARE FEET AND/OR WILL RESULT IN LESS THAN 100 CUBIC YARDS OF EARTH MOVEMENT.
- ZONING REQUIREMENT/DESCRIPTION MINIMUM LOT AREA: 20,000 SF 1,094,700 SF CAPITAL PARK AND PLANNING COMMISSION (MNCPPC). 59-4.4.7.B.1

 ACCESSORY STRUCTURE MIN FRONT SETBACK ACCESSORY STRUCTURE MIN SIDE SETBACK 12' FT 748 FT ACCESSORY STRUCTURE MIN REAR SETBACK 711 FT 12. VALLEY BROOK DRIVE IS OPERATED AND MAINTAINED BY THE MONTGOMERY COUNTY DEPARTMENT OF

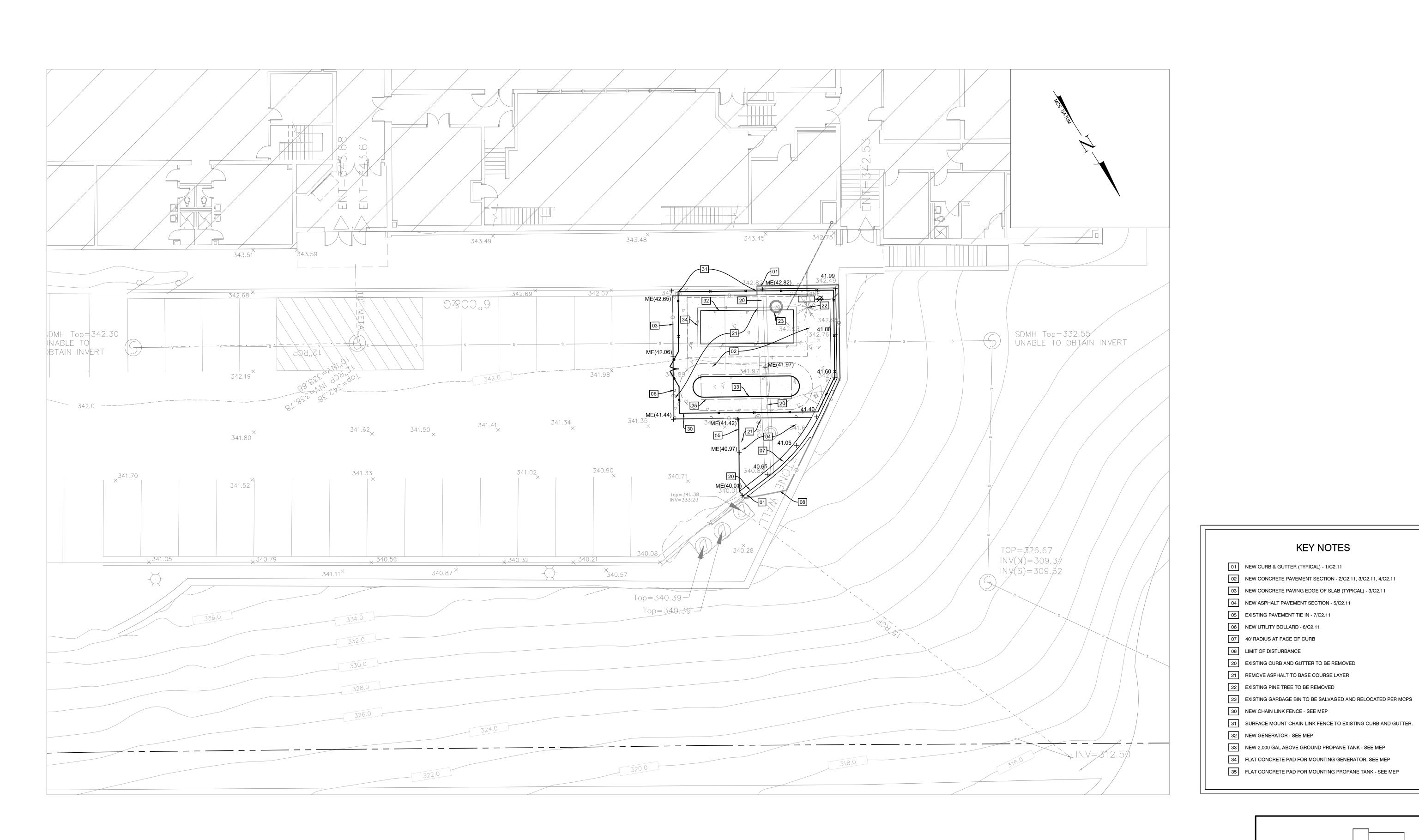
ZONING ANALYSIS FOR RE-200







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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. Lic. No. 16905 Exp. Date. 04.21.2024



Mechanical & Electrical

KEY NOTES

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

tel 410-265-6100 jamesposey.com

TAX MAP JQ563 ,WSSC 216NE01 5TH ELECTION DISTRICT MONTGOMERY COUNTY MARYLAND, LOT 7, BLOCK A, LOTS 11 THRU 26, BLK 1, SPRINGBROOK

CIVIL ENGINEERING LAND SURVEYING LANDSCAPE ARCHITECTURE LAND PLANNING

9220 Wightman Road, Suite 120 Montgomery Village, MD 20886 Phone: 301.670.0840

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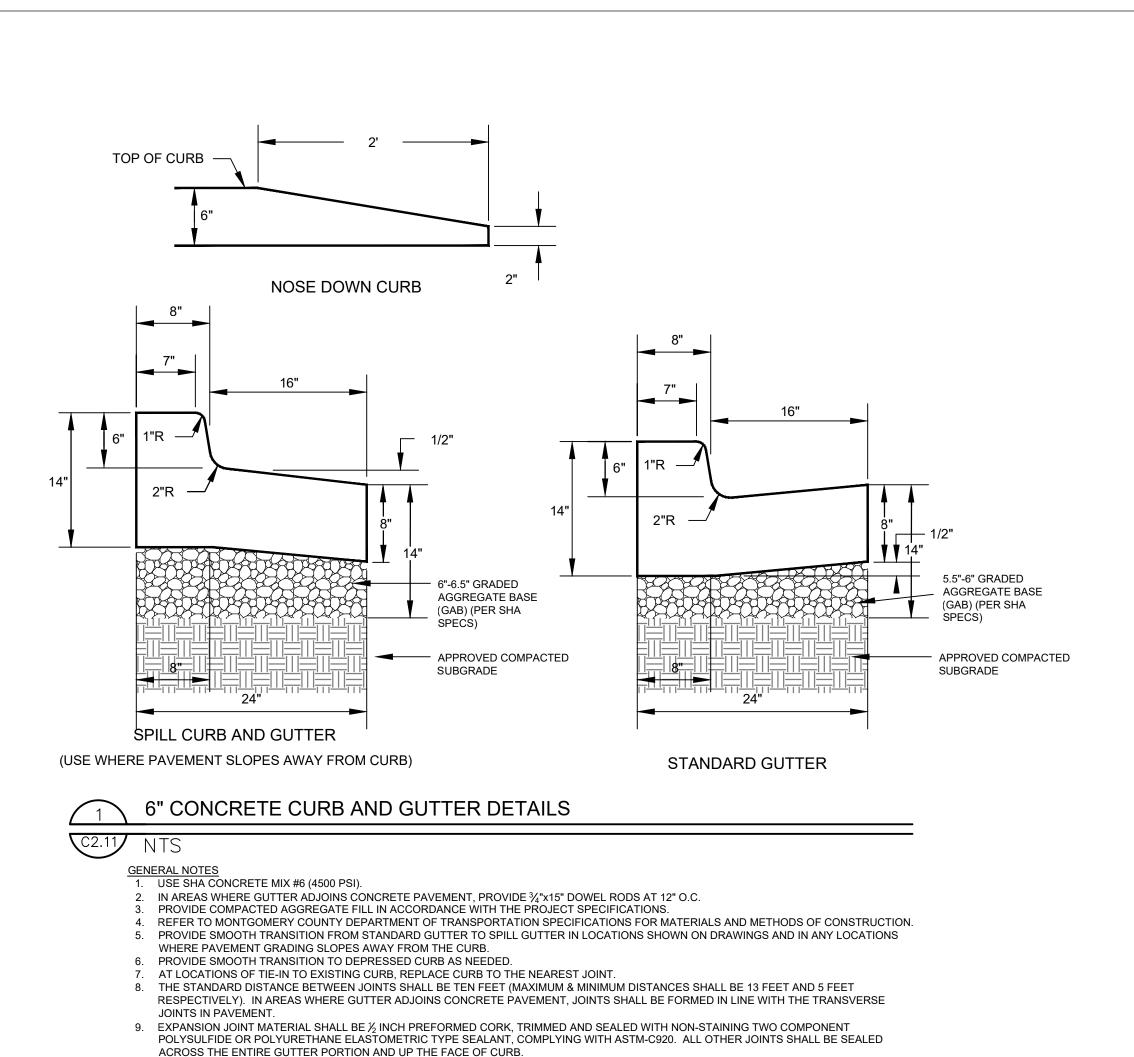
Description **BID SET** 06/20/23

JUNE 20, 2023

SITE PLAN

C2.01

GRAPHIC SCALE
(IN FEET)
1 inch = 10 ft.



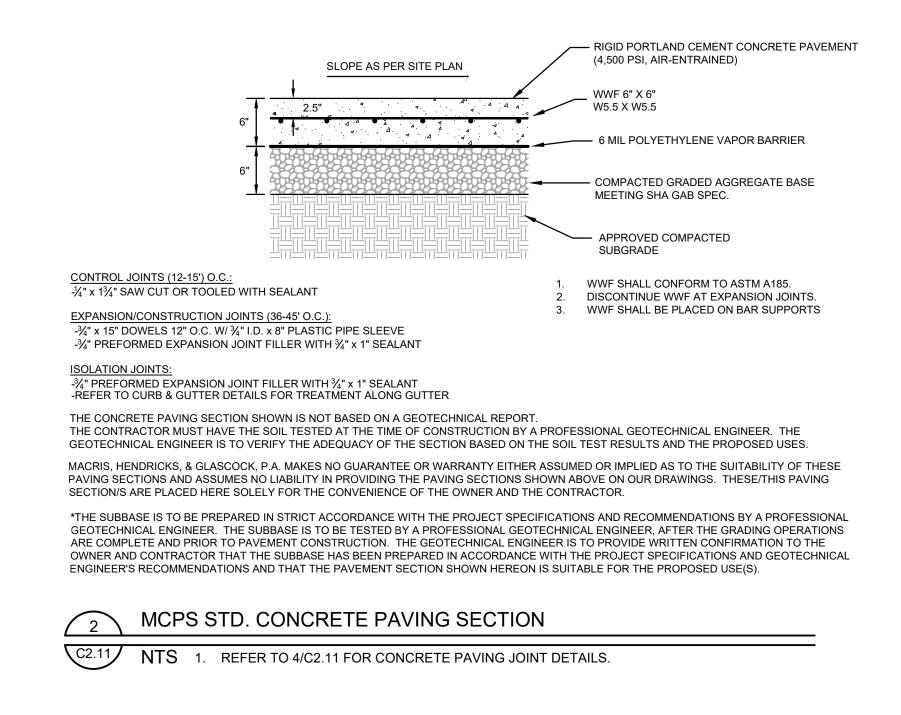
10. THE CURB AND GUTTER SECTION SHOWN IS NOT BASED ON A GEOTECHNICAL REPORT. THE CONTRACTOR MUST HAVE THE SOIL TESTED AT THE TIME OF CONSTRUCTION BY A PROFESSIONAL GEOTECHNICAL ENGINEER. THE GEOTECHNICAL ENGINEER IS TO VERIFY THE ADEQUACY

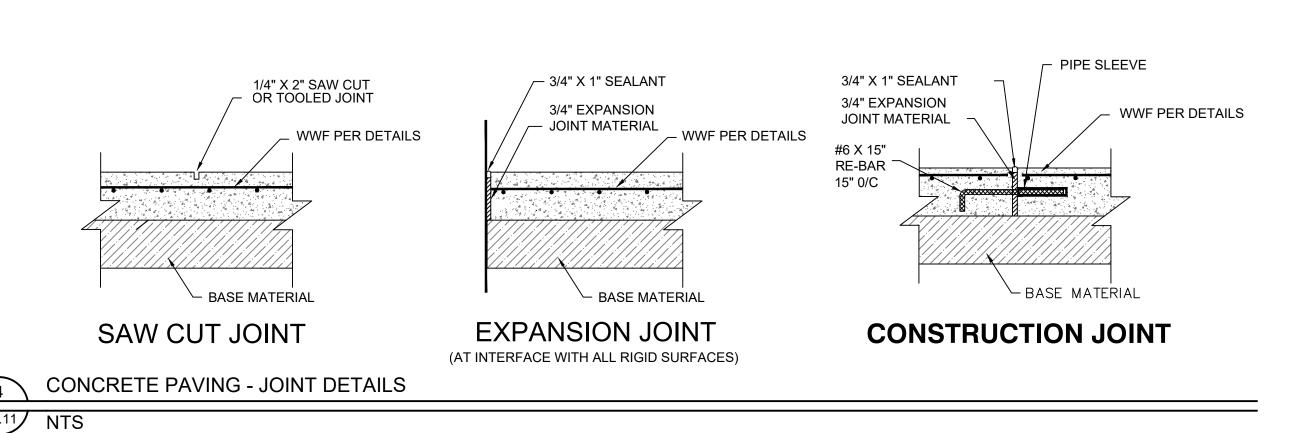
PROFESSIONAL GEOTECHNICAL ENGINEER. THE SUBBASE IS TO BE TESTED BY A PROFESSIONAL GEOTECHNICAL ENGINEER, AFTER THE GRADING OPERATIONS ARE COMPLETE AND PRIOR TO CURB AND GUTTER CONSTRUCTION. THE GEOTECHNICAL ENGINEER IS TO PROVIDE WRITTEN CONFIRMATION TO THE OWNER AND CONTRACTOR THAT THE SUBBASE HAS BEEN PREPARED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND GEOTECHNICAL ENGINEER'S RECOMMENDATIONS AND THAT THE PAVEMENT SECTION SHOWN HEREON IS SUITABLE FOR

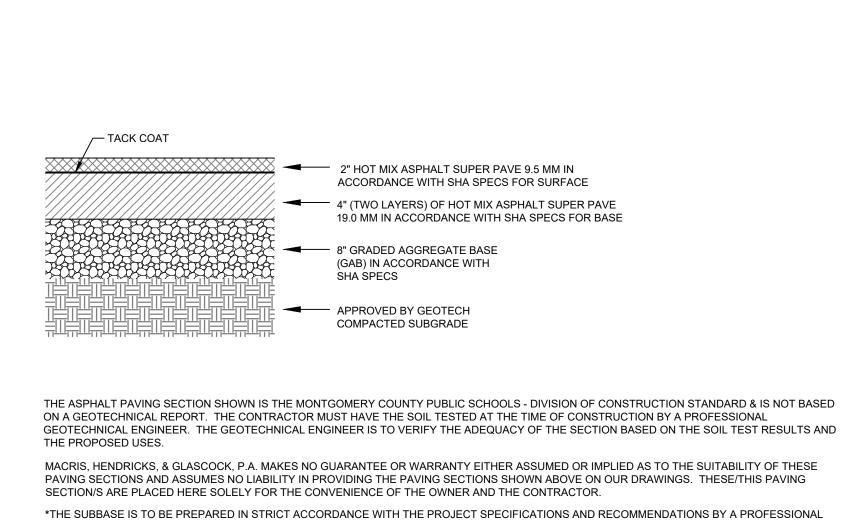
11. THE SUBBASE IS TO BE PREPARED IN STRICT ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND RECOMMENDATIONS BY A

OF THE SECTION BASED ON THE SOIL TEST RESULTS AND THE PROPOSED USES.

THE PROPOSED USE(S).







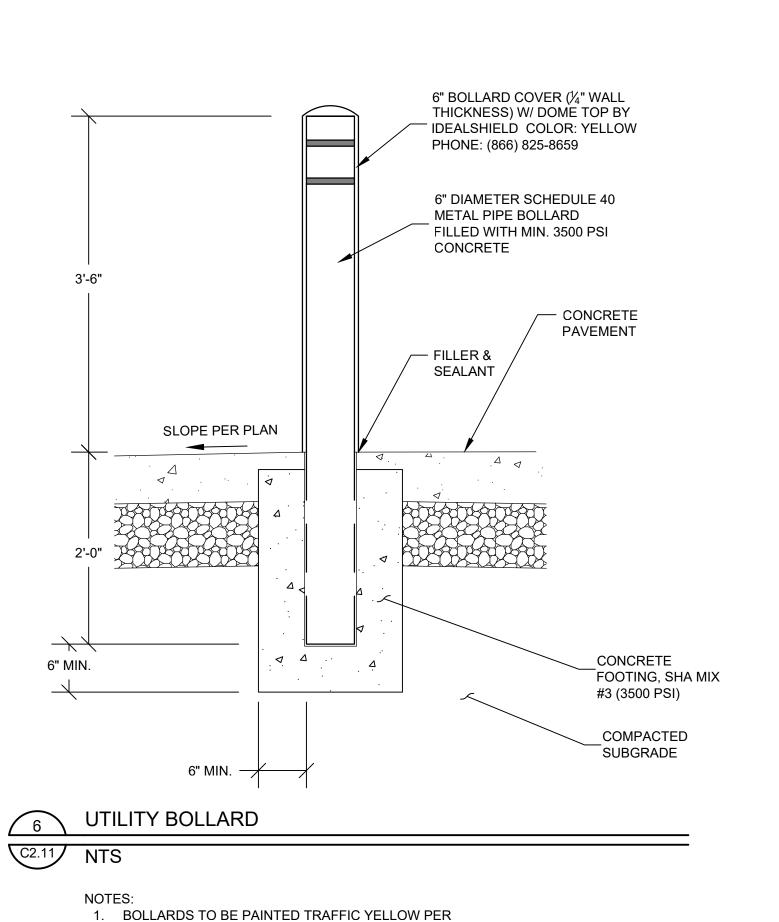
GEOTECHNICAL ENGINEER. THE SUBBASE IS TO BE TESTED BY A PROFESSIONAL GEOTECHNICAL ENGINEER, AFTER THE GRADING OPERATIONS

OWNER AND CONTRACTOR THAT THE SUBBASE HAS BEEN PREPARED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND GEOTECHNICAL

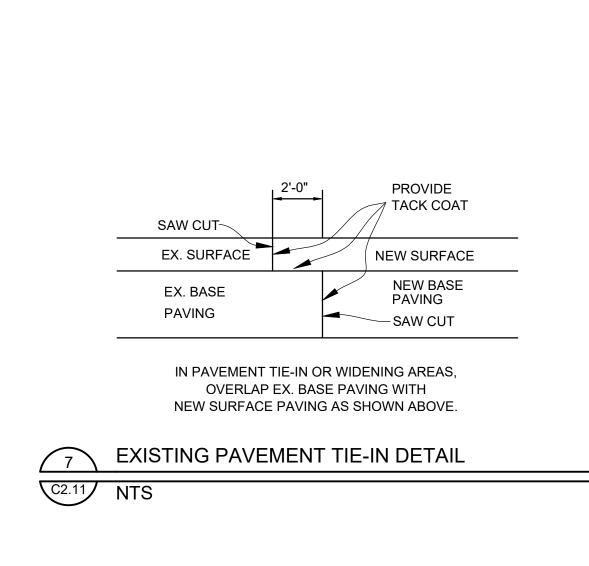
ARE COMPLETE AND PRIOR TO PAVEMENT CONSTRUCTION. THE GEOTECHNICAL ENGINEER IS TO PROVIDE WRITTEN CONFIRMATION TO THE

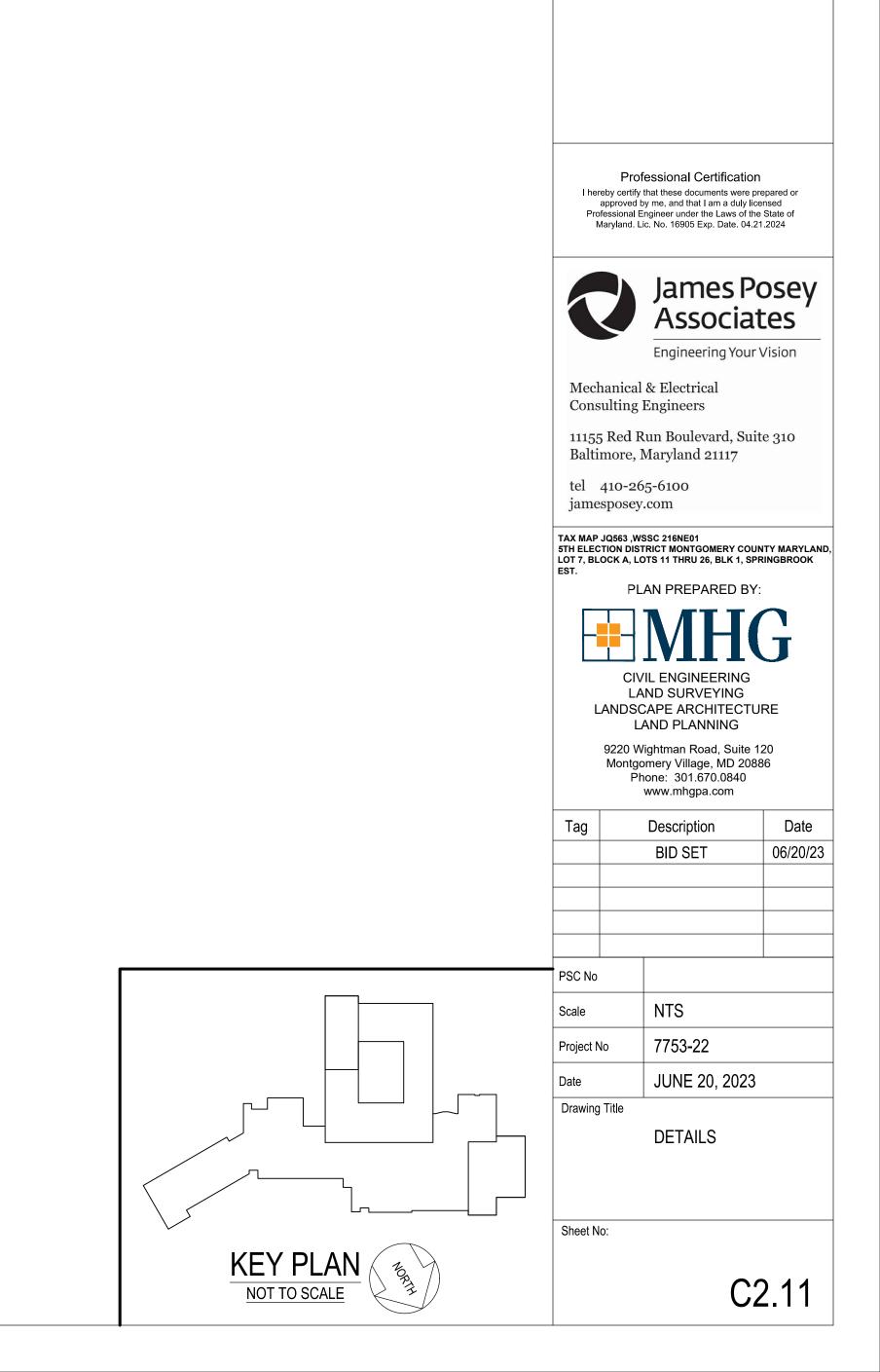
ENGINEER'S RECOMMENDATIONS AND THAT THE PAVEMENT SECTION SHOWN HEREON IS SUITABLE FOR THE PROPOSED USE(S).





MDOT-SHA STANDARDS





REINFORCED CONCRETE PAVING

COMPACTED

SPECS.

SUBGRADE PER

SEE DETAILS THIS SHEET

WWF 6" X 6"

W5.5 X W5.5

Δ 4. Δ Δ 4 . _Δ

CONCRETE

SURFACE -

SIDEWALK, OR

OTHER ADJOINING

CONCRETE PAVING SPECIFICATIONS:

THE CROWN OUT OF THE PAVEMENT.

TROWELED AND FINISHED WITH HAIR BROOMS.

STANDARD SPECIFICATIONS, SECTION 520.

EXPANSION

SEALANT

NO. 6 REBAR

JOINT FILLER & -

CONCRETE PAVING - EDGE OF SLAB

RIGID PORTLAND CEMENT CONCRETE, fc=4,500 PSI, AIR ENTRAINED

ALL CONCRETE PAVING WORK NOT SHOWN OR SPECIFIED SHALL COMPLY WITH THE LATEST EDITION OF SHA

AFTER THE CONCRETE HAS BEEN FLOATED AND THE SURFACE CORRECTED, IT SHALL BE FINISHED BY DRAGGING

THE SURFACE IN A LONGITUDINAL DIRECTION WITH BURLAP. THIS DRAG SHALL BE WORKED WITH A LONGITUDINAL

MOTION, CARE BEING USED NOT TO PERMIT THE EDGES TO DIG INTO THE SURFACE OF THE CONCRETE OR TO WORK

AFTER THE WATER SHEEN HAS PRACTICALLY DISAPPEARED, BUT PRIOR TO ANY INITIAL SET, THE SURFACE SHALL BE

GIVEN THE FINAL FINISH BY BROOMING. THE BROOM SHALL BE MOVED FROM ONE SIDE OF THE PAVEMENT TO THE

OTHER WITHOUT INTERRUPTION. THE TRAVEL OF THE BROOM SHALL OVERLAP A SMALL AMOUNT. THE BROOMING

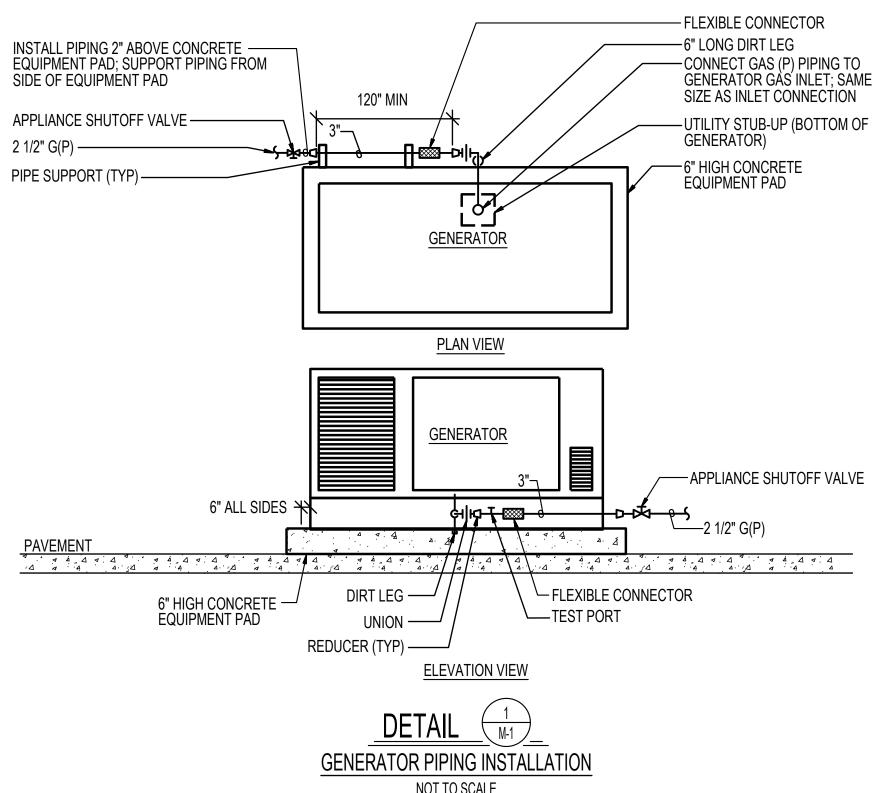
SHALL BE PERPENDICULAR TO THE CENTER LINE OF THE PAVEMENT AND SO EXECUTED THAT THE CORRUGATIONS

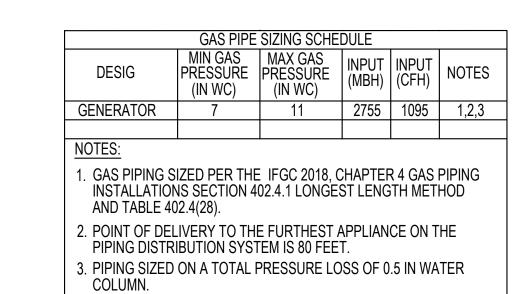
THUS PRODUCED WILL BE OF UNIFORM CHARACTER AND WIDTH AND NOT MORE THAN 1/8 INCH IN DEPTH, WITH THE

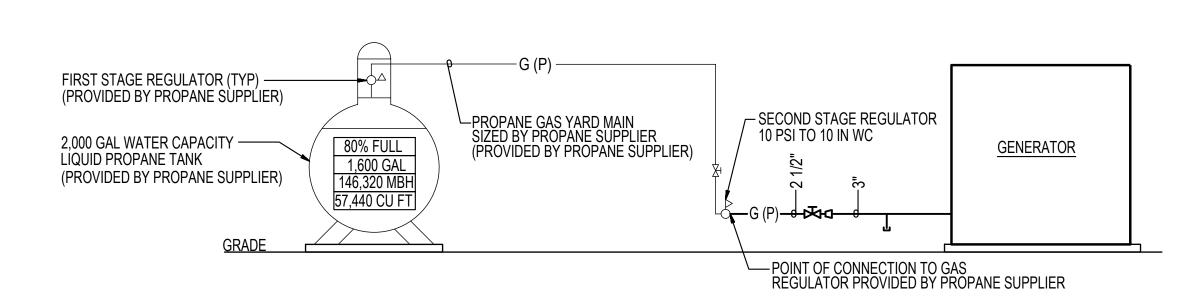
RESULTING SURFACE FREE FROM OBJECTIONABLE DEPRESSIONS OR PROJECTIONS THAT MIGHT BE FORMED BY

IMPROPER HANDLING. THE BROOMING MUST BE COMPLETED BEFORE THE EDGES OF THE PAVEMENT AND JOINTS

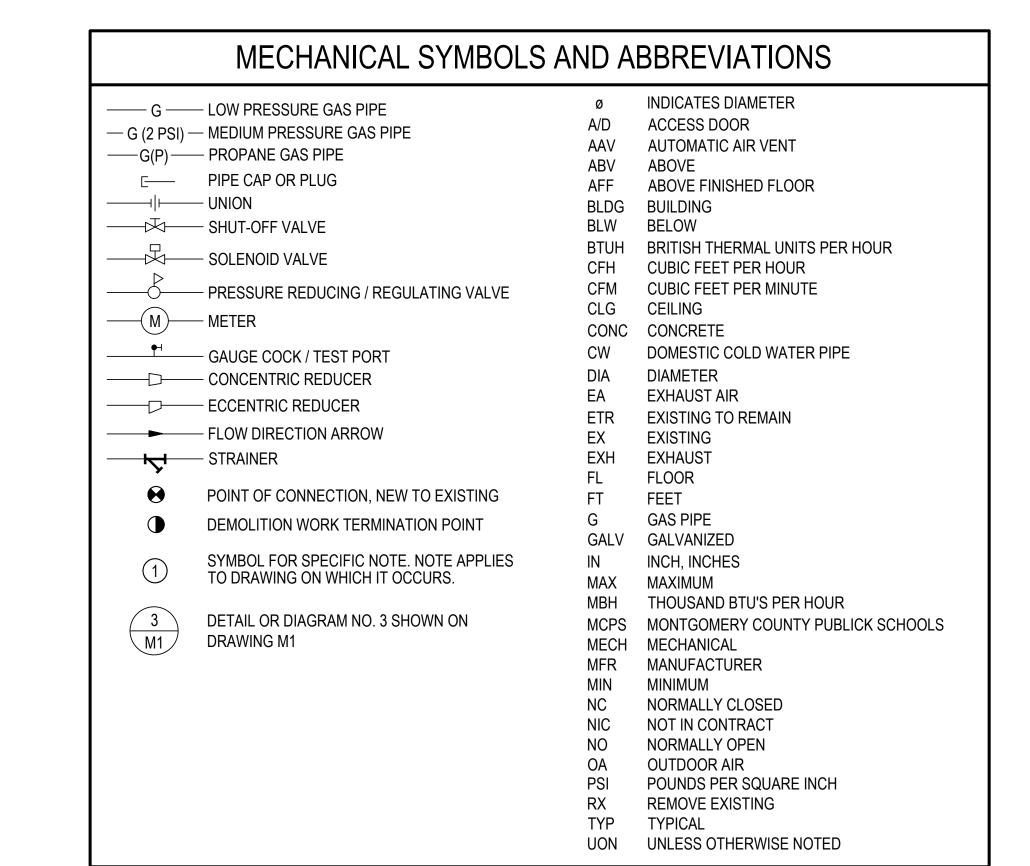
THE SURFACE OF THE PAVEMENT ADJACENT TO ALL CURBS, I.E., IN THE FLOW LINE OF THE GUTTER, SHALL BE

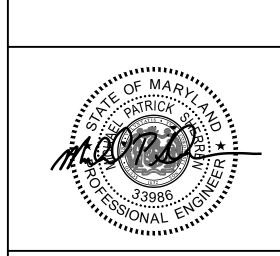












EMEN'

AC

QUIPME

AND

TOR

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



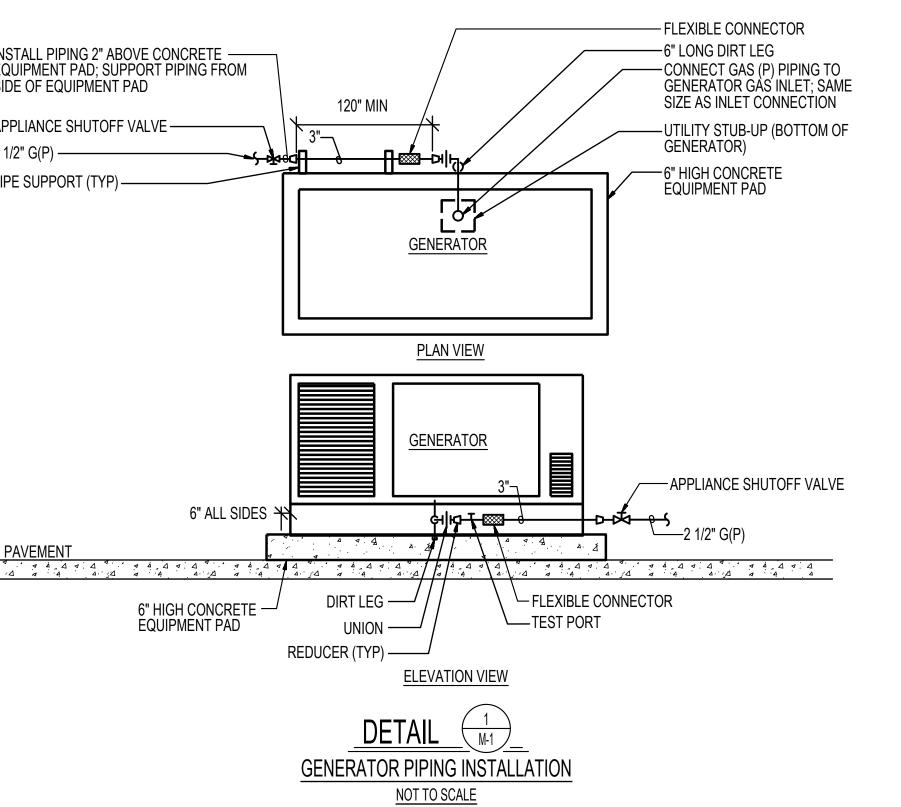
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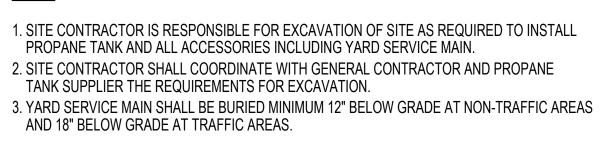
jamesposey.com

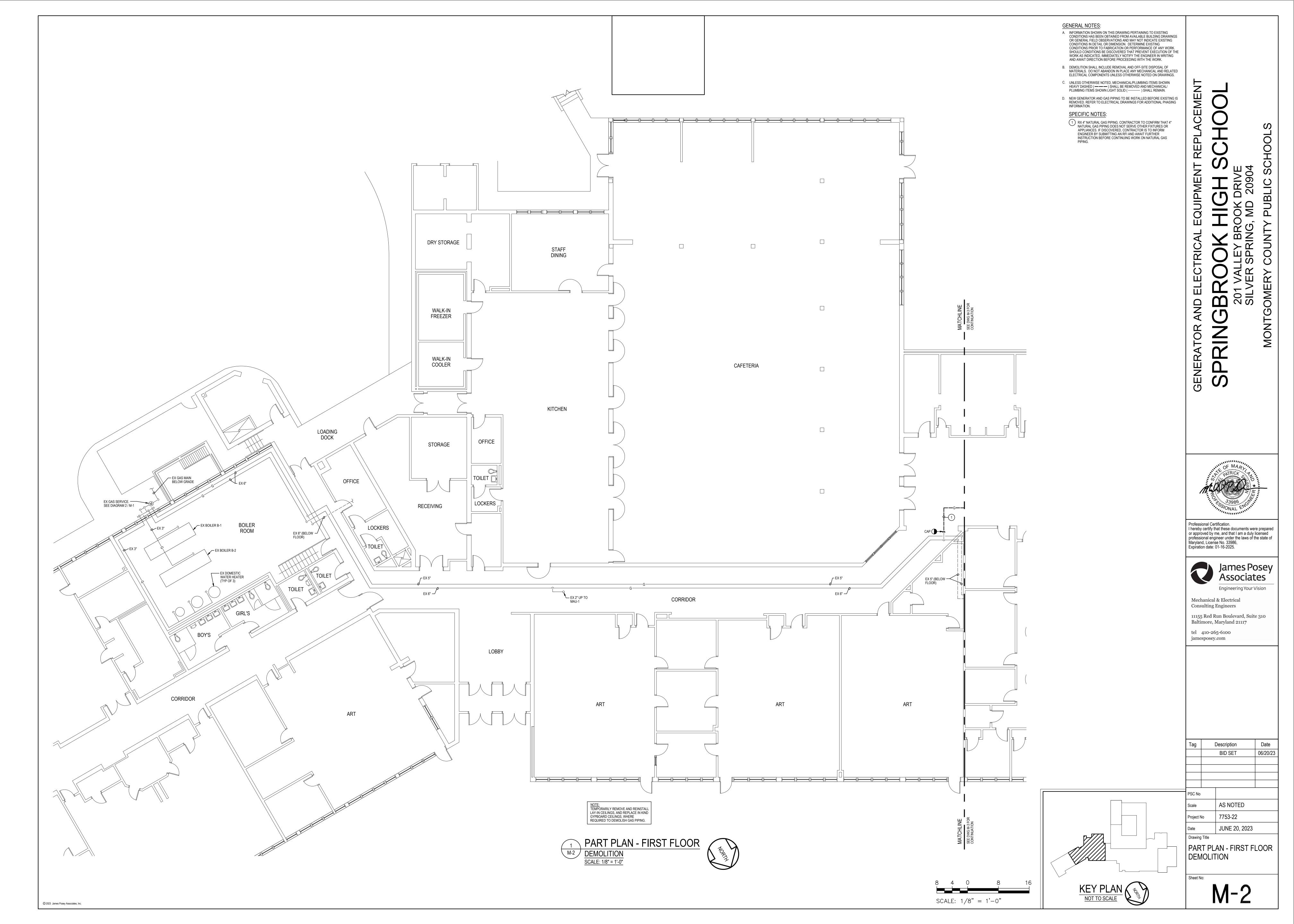
Tag	Description	Date
	BID SET	06/20/23
PSC No		
Scale	AS NOTED	

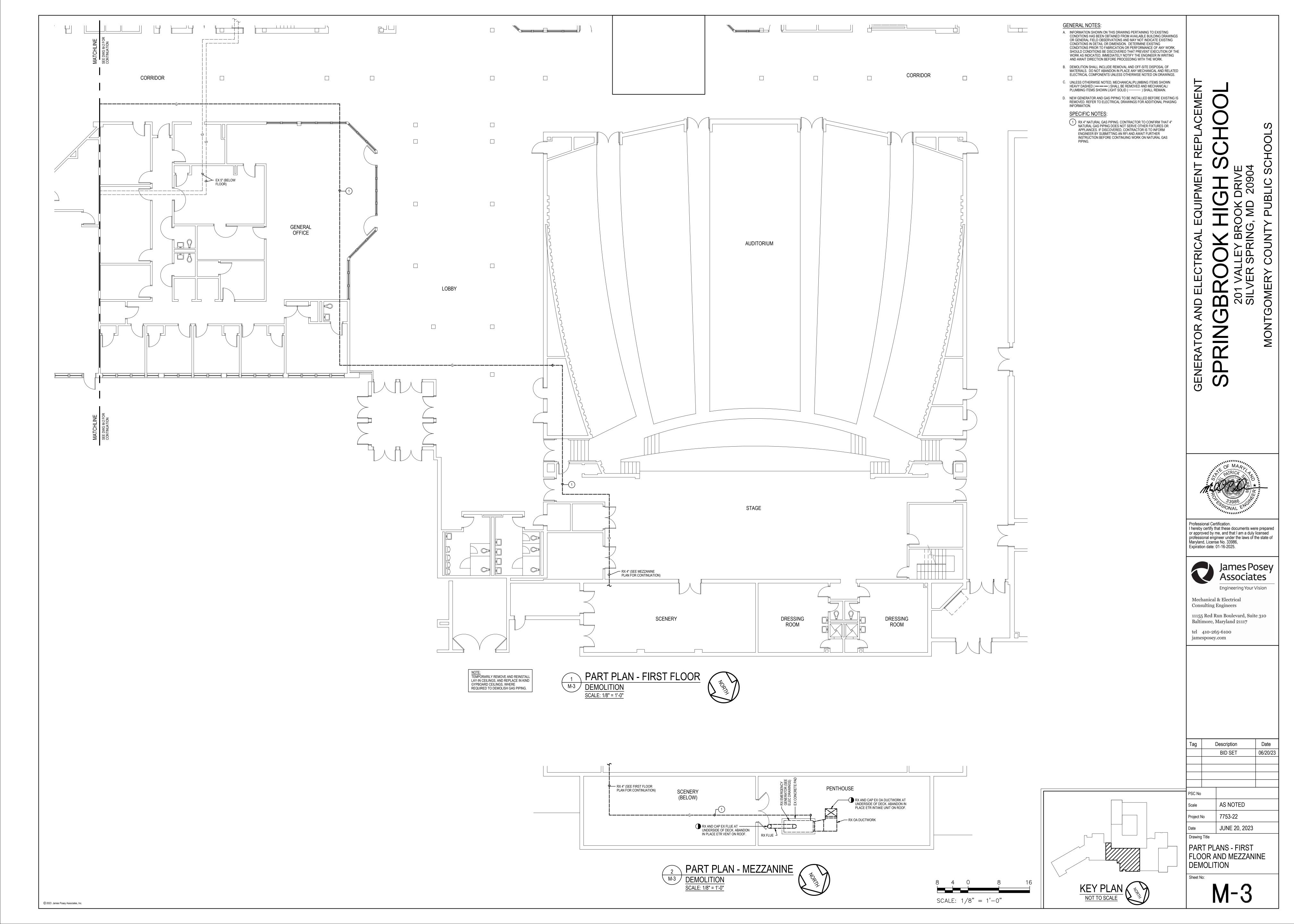
DIAGRAMS, SYMBOLS AND ABBREVIATIONS

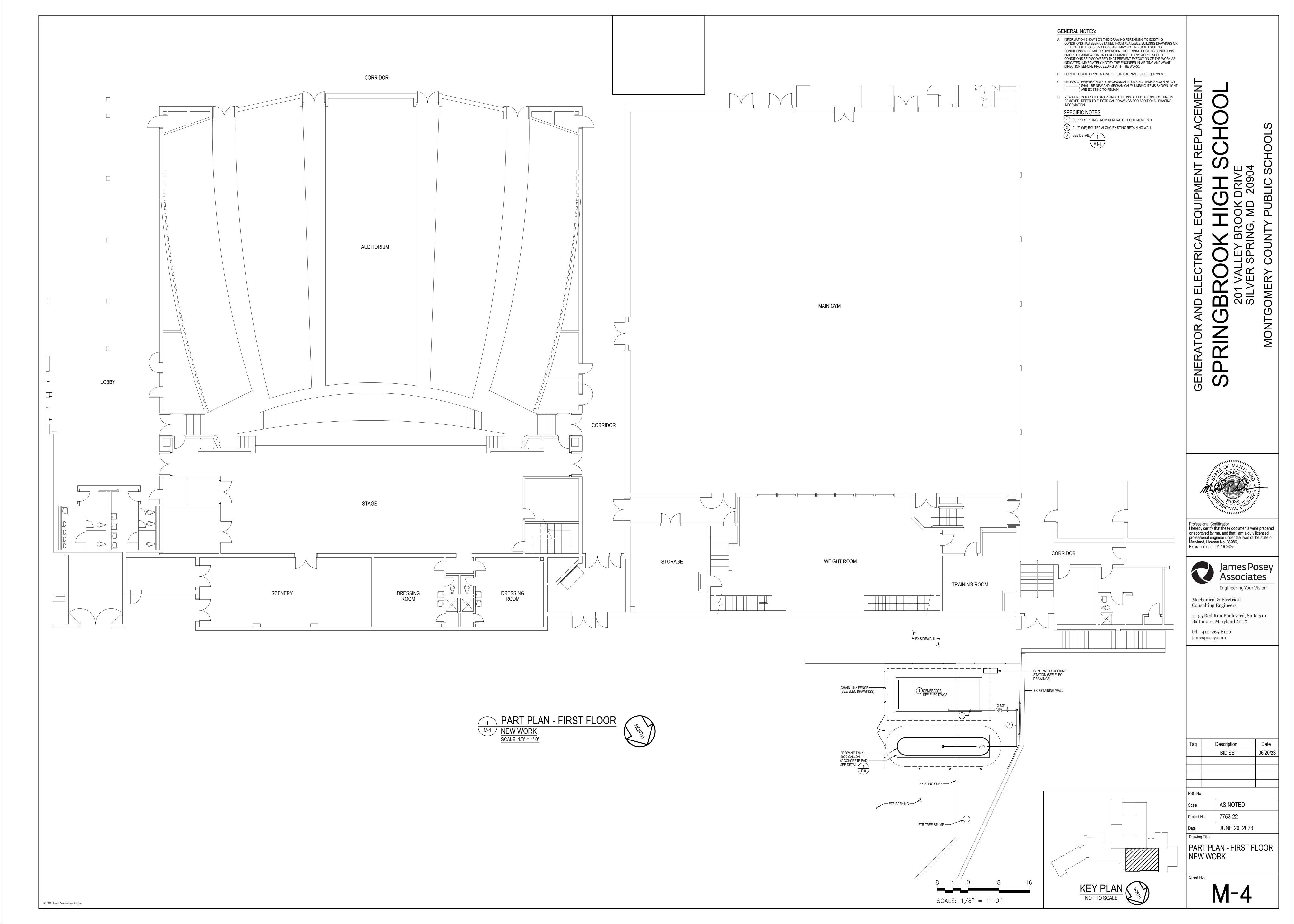
JUNE 20, 2023

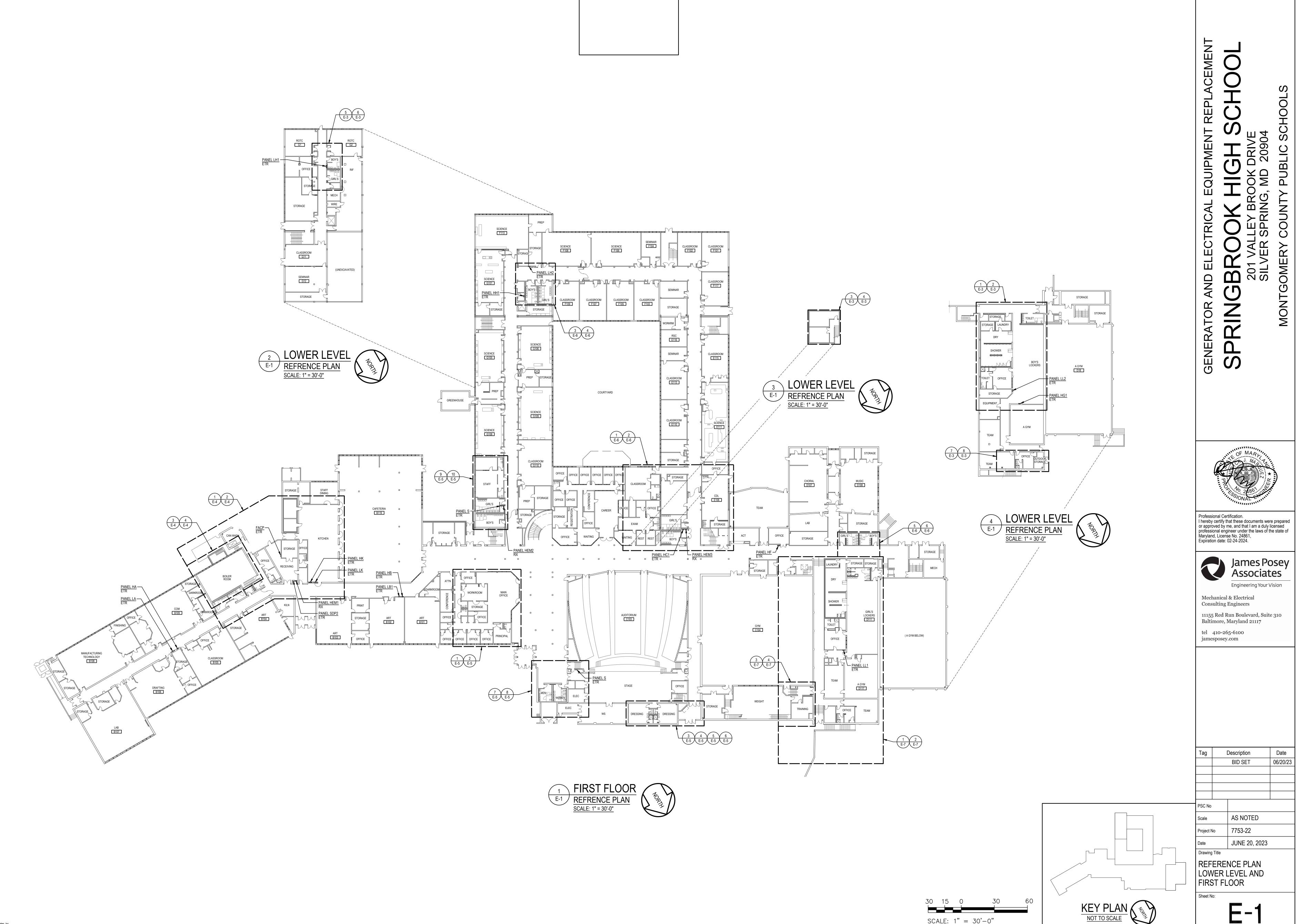






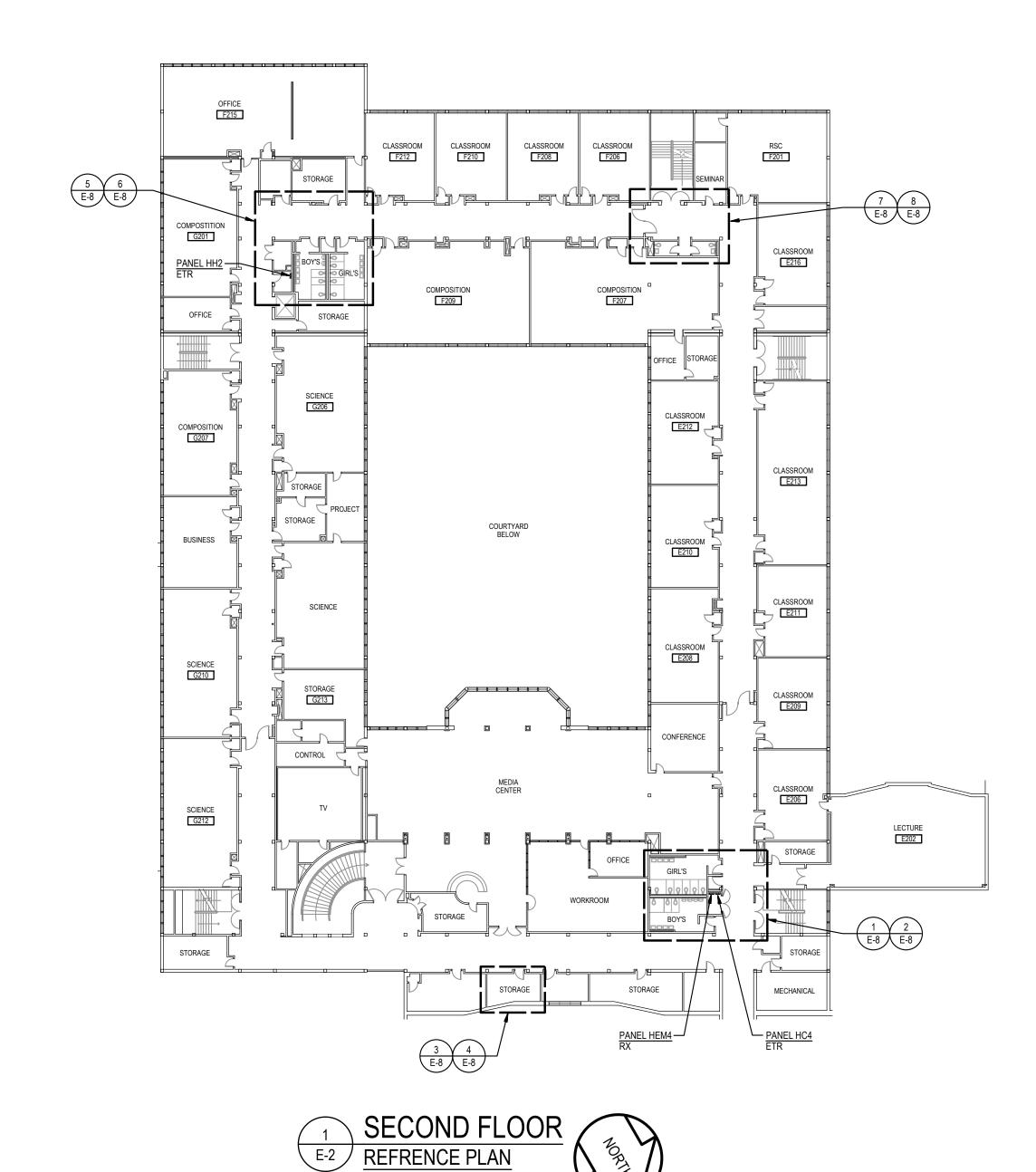






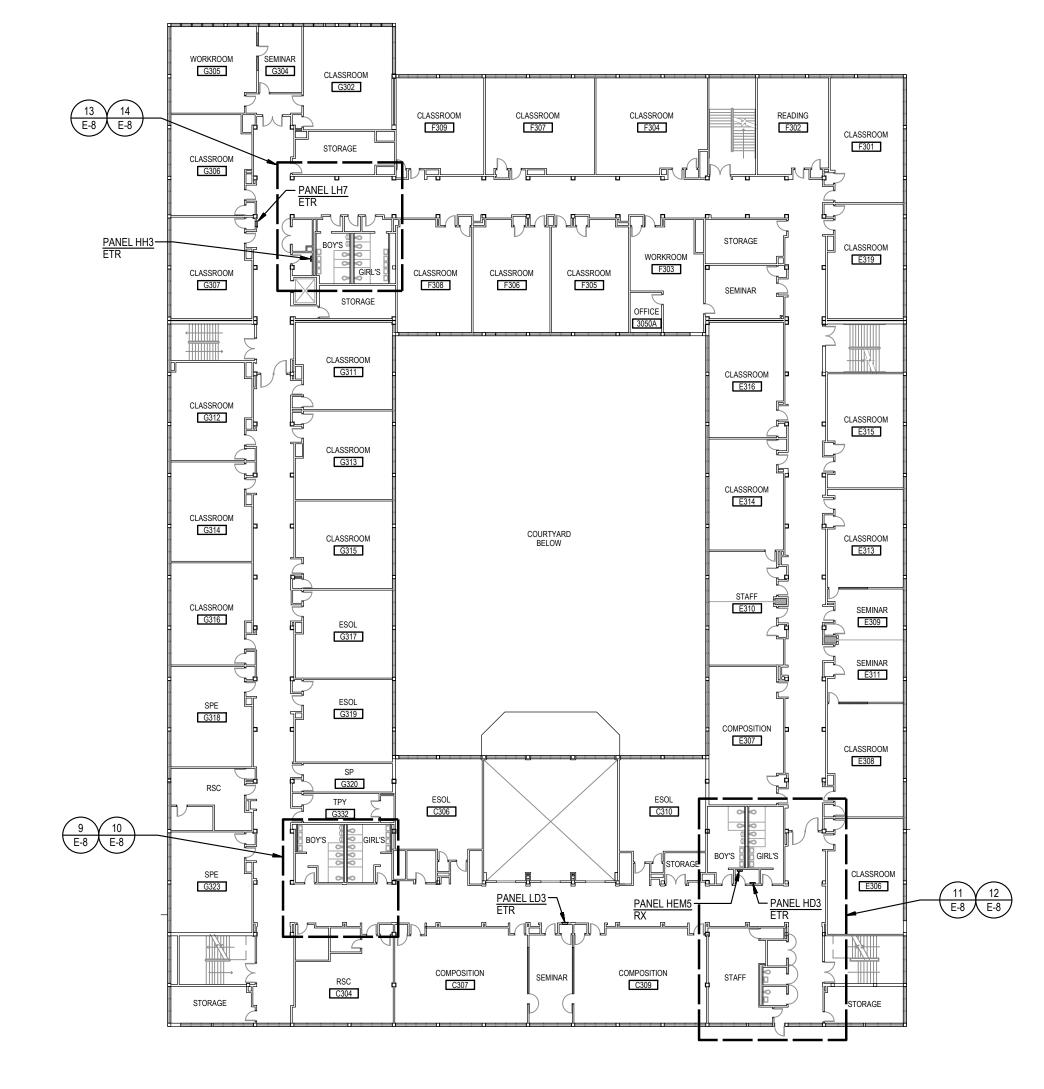
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SCALE: 1" = 30'-0"

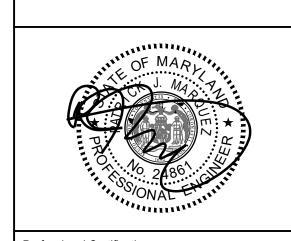


SCALE: 1" = 30'-0"

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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: 02-24-2024.



Mechanical & Electrical
Consulting Engineers

11155 Red Run Boulevard, St

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

Description

			BID SET	06/20/23
	PSC No			
	Scale		AS NOTED	
]	Project N	No	7753-22	
	Date		JUNE 20, 2023	
]				

Drawing Title

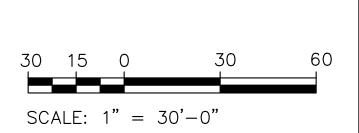
REFERENCE PLAN

SECOND AND

THIRD FLOORS

KEY PLAN

E-2

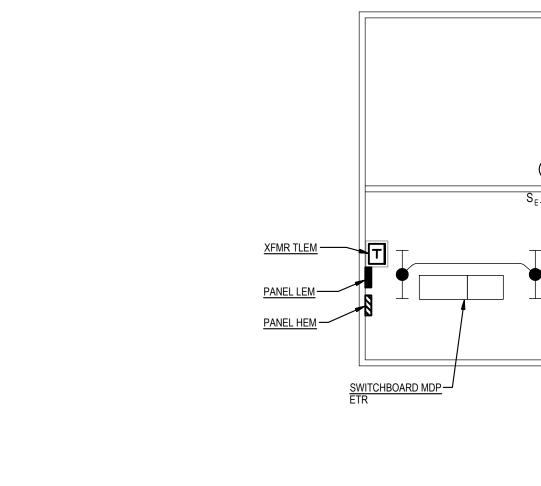


DISCONNECT AND REMOVE EXISTING CONDUIT AND WIRING SERVING EXISTING LIGHTING FIXTURE(S). PROVIDE 2 #12 + #12 GROUND IN 3/4" CONDUIT AND CONNECT TO NEAREST EXISTING UNSWITCHED EMERGENCY LIGHTING CIRCUIT. REMOVE EXISTING ABANDONED CONDUIT AS NEEDED, TO ALLOW FOR NEW WORK PANELS TO BE INSTALLED. THERE ARE APPROXIMATELY (2) 3/4", (1) 1 1/2", AND (1) 2" EMPTY CONDUITS AT THIS LOCATION. OPERATIONAL AT ALL TIMES WHEN SCHOOL IS IN SESSION. H. REMOVE EXISTING EQUIPMENT AND DEVICES INDICATED, INCLUDING I. EXISTING CIRCUITS INTERRUPTED BY DEMOLITION, BUT ARE TO REMAIN, J. WHERE DEVICES ARE TO BE REMOVED AND REINSTALLED, PROVIDE WIRE AND BLANK COVER PLATES FOR DEVICES REMOVED.

SPECIFIC NOTES:

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
- 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
- ASSOCIATED WIRE AND CONDUIT BACK TO SOURCE UNLESS OTHERWISE
- SHALL BE MADE CONTINUOUS.
- CONDUIT TO NEW LOCATION AS REQUIRED. K. IN BLOCK OR CONCRETE WALLS TO REMAIN, PROVIDE STAINLESS STEEL





BOY'S LOCKERS

CORRIDOR

LAUNDRY

OFFICE

PART PLAN - LOWER LEVEL

EQUIPMENT

STORAGE

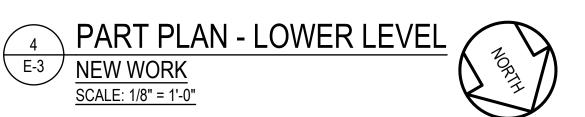
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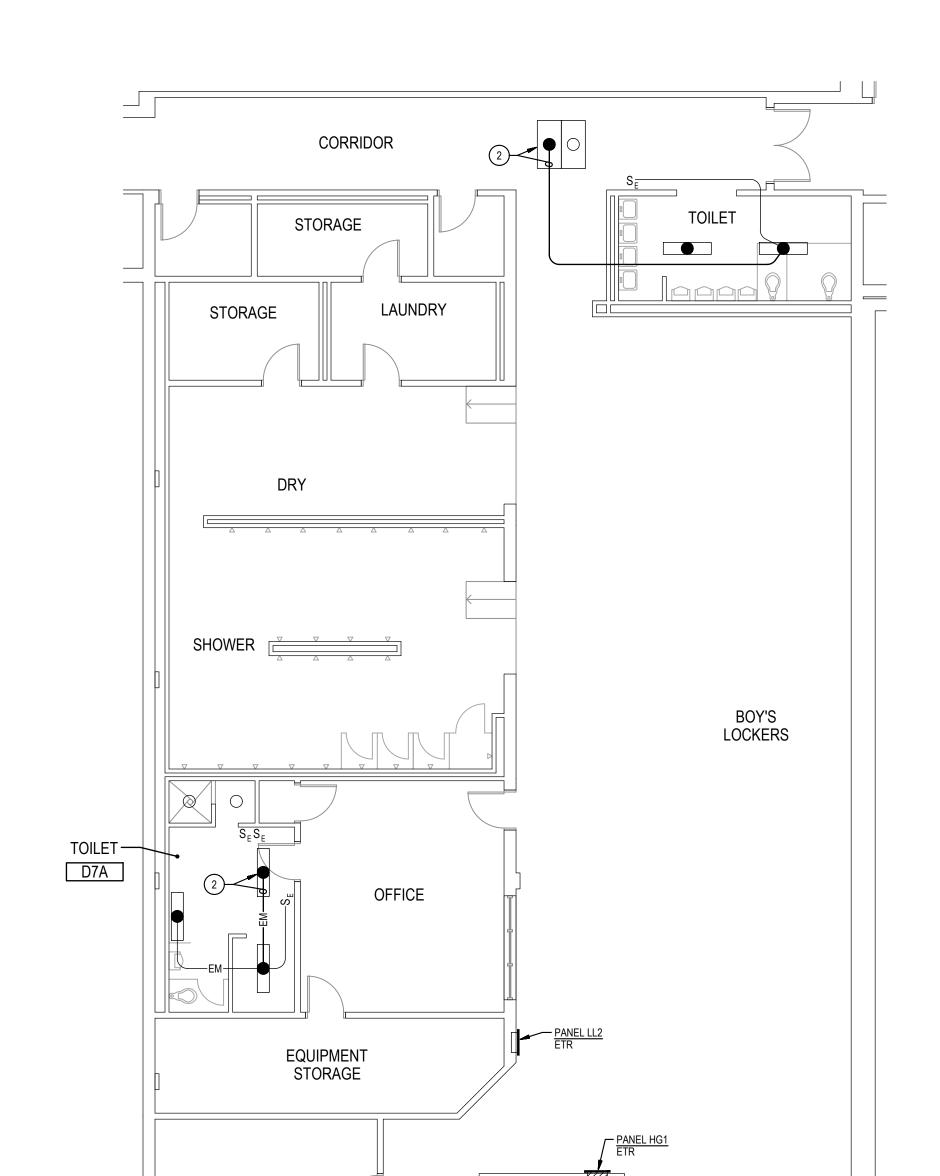
STORAGE

SHOWER V V V

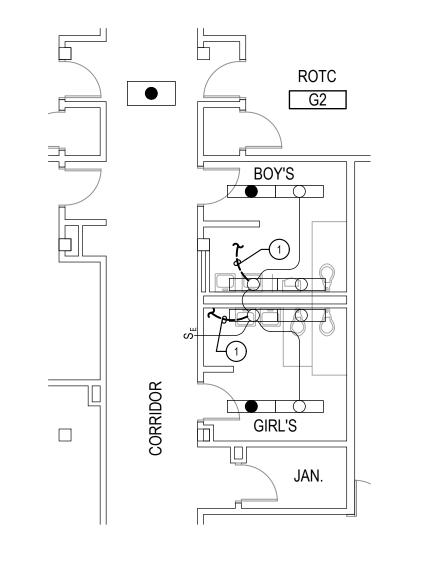
TOILET -

STORAGE





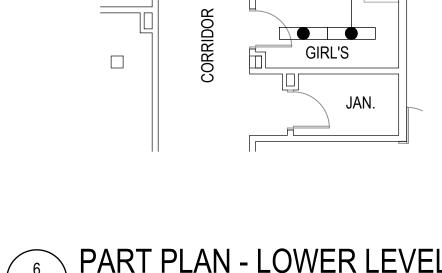




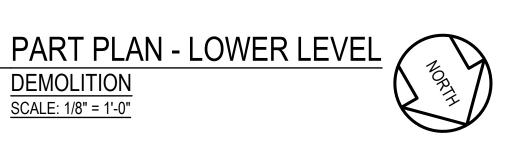
E-3 DEMOLITION

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

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



BOY'S







James Posey Associates

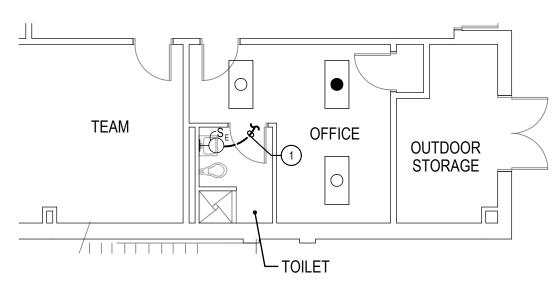
11155 Red Run Boulevard, Suite 310 Baltimore, Maryland 21117

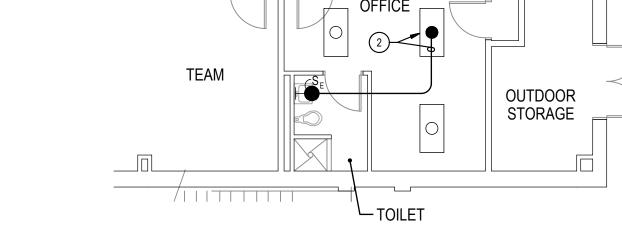
Mechanical & Electrical **Consulting Engineers**

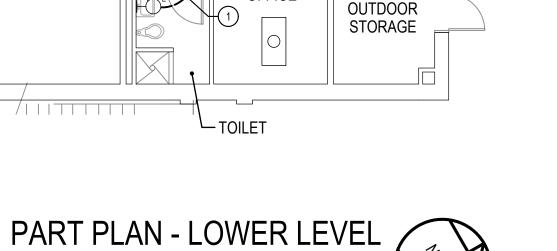
tel 410-265-6100 jamesposey.com

Engineering Your Vision

06/20/23

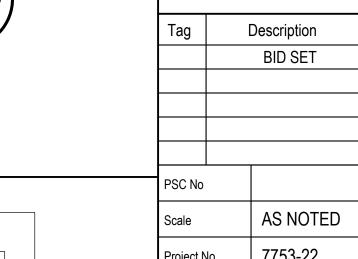


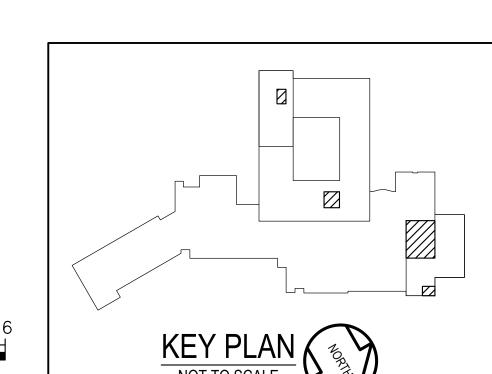


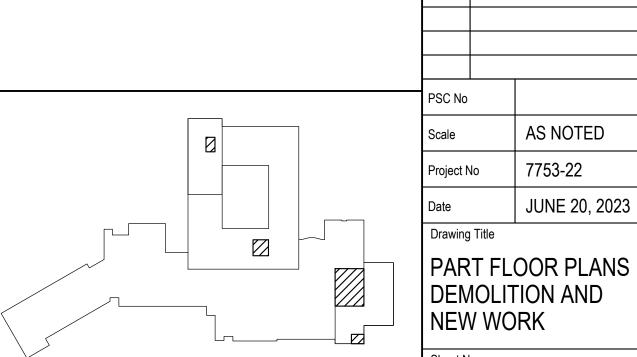






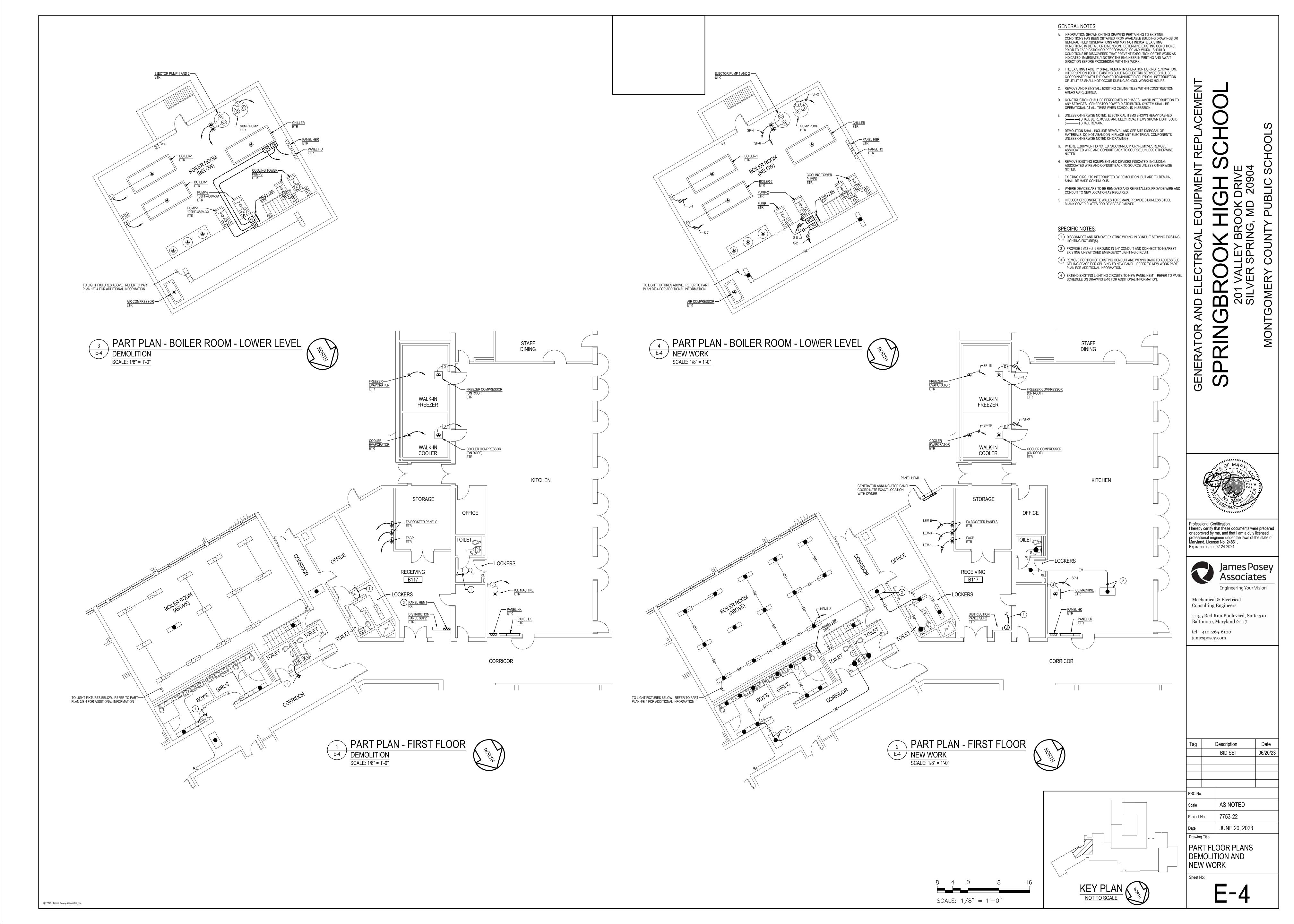


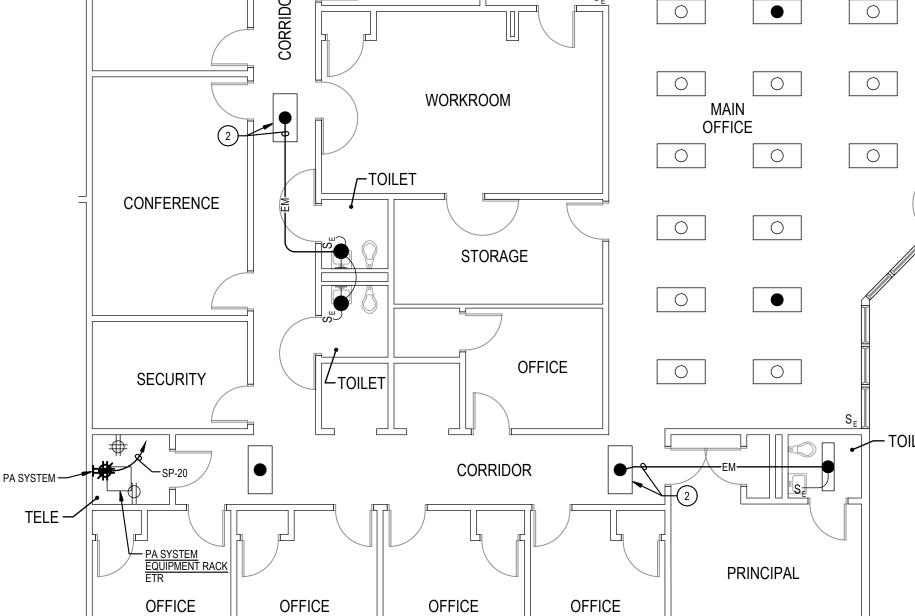




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SCALE: 1/8" = 1'-0"







WORKROOM

STORAGE

OFFICE

PRINCIPAL

ATTENDANCE

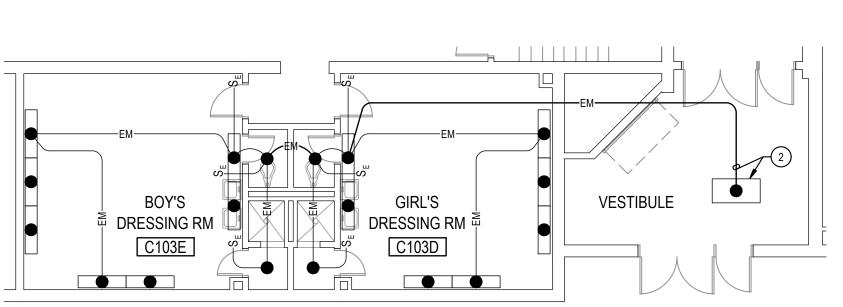
CONFERENCE

SECURITY









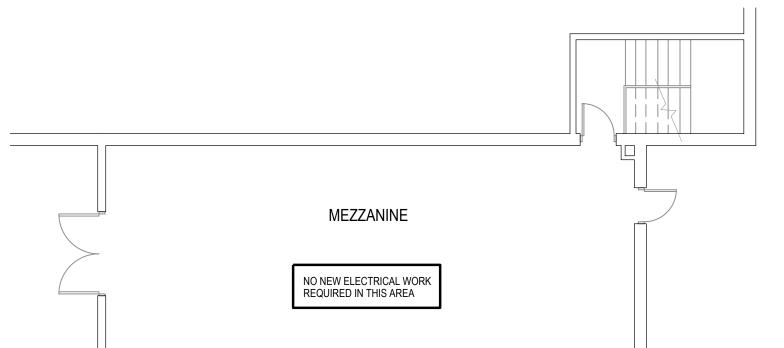
PART PLAN - FIRST FLOOR

E-5 NEW WORK

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

3 PART PLAN - FIRST FLOOR E-5 DEMOLITION SCALE: 1/8" = 1'-0"



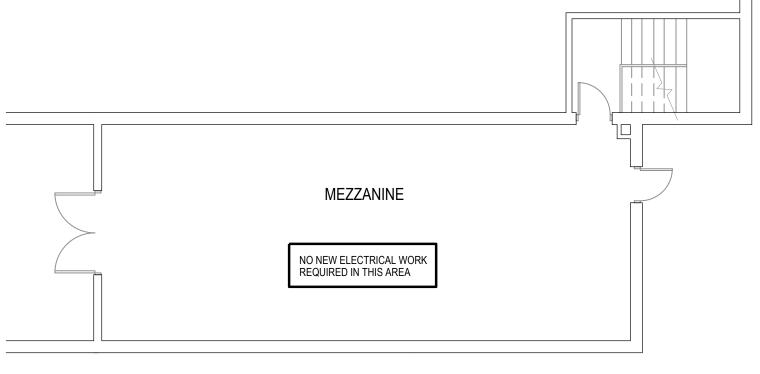




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- DIRECTION BEFORE PROCEEDING WITH THE WORK. B. THE EXISTING FACILITY SHALL REMAIN IN OPERATION DURING RENOVATION. INTERRUPTION TO THE EXISTING BUILDING ELECTRIC SERVICE SHALL BE COORDINATED WITH THE OWNER TO MINIMIZE DISRUPTION. INTERRUPTION
- OF 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.

SHALL BE MADE CONTINUOUS. 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

F. DEMOLITION SHALL INCLUDE REMOVAL AND OFF-SITE DISPOSAL OF

G. WHERE EQUIPMENT IS NOTED "DISCONNECT" OR "REMOVE", REMOVE

H. REMOVE EXISTING EQUIPMENT AND DEVICES INDICATED, INCLUDING

MATERIALS. DO NOT ABANDON IN PLACE ANY ELECTRICAL COMPONENTS

ASSOCIATED WIRE AND CONDUIT BACK TO SOURCE, UNLESS OTHERWISE

ASSOCIATED WIRE AND CONDUIT BACK TO SOURCE UNLESS OTHERWISE

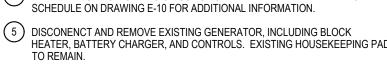
EXISTING CIRCUITS INTERRUPTED BY DEMOLITION, BUT ARE TO REMAIN,

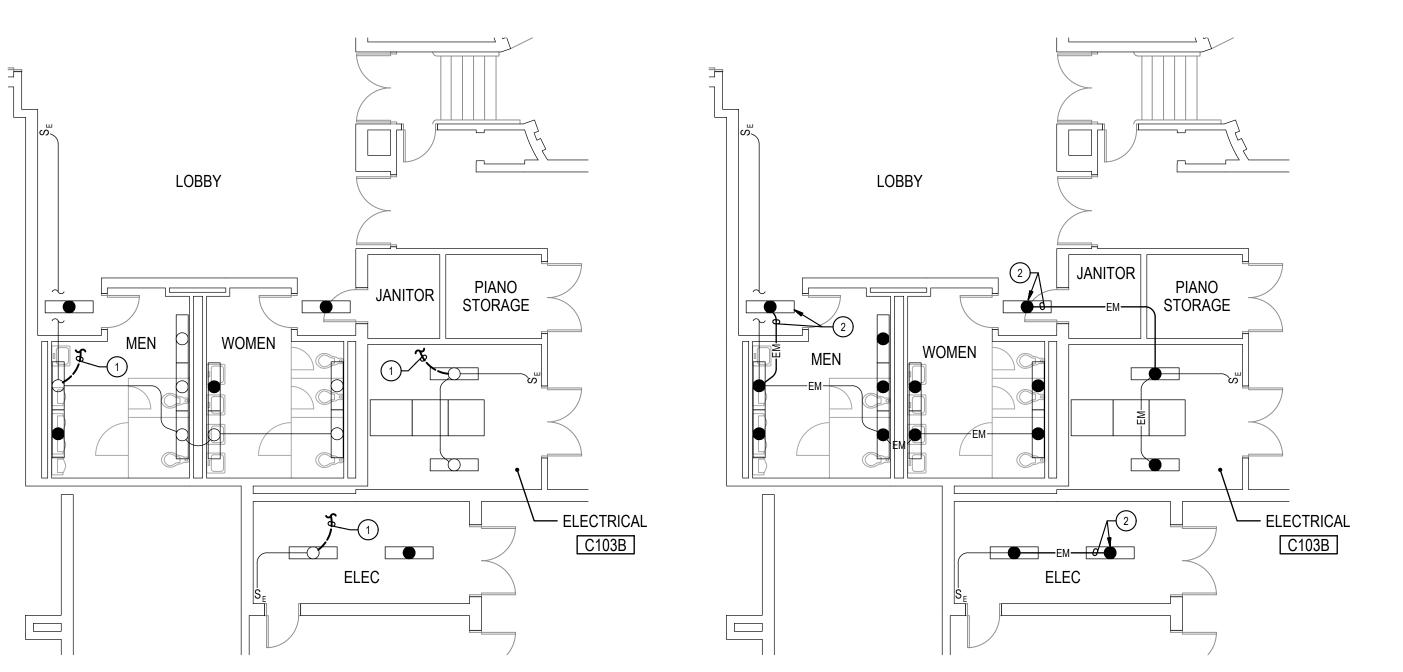
GENERAL NOTES (CONTINUED):

UNLESS OTHERWISE NOTED ON DRAWINGS.

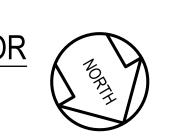
SPECIFIC NOTES:

- DISCONNECT AND REMOVE EXISTING WIRING IN CONDUIT SERVING EXISTING LIGHTING FIXTURE(S).
- (2) PROVIDE 2 #12 + #12 GROUND IN 3/4" CONDUIT AND CONNECT TO NEAREST
- EXISTING UNSWITCHED EMERGENCY LIGHTING CIRCUIT. (3) REMOVE PORTION OF EXISTING CONDUIT AND WIRING BACK TO ACCESSIBLE CEILING SPACE FOR SPLICING TO NEW PANEL. REFER TO NEW WORK PART PLAN FOR ADDITIONAL INFORMATION.
- (4) EXTEND EXISTING LIGHTING CIRCUITS TO NEW PANEL HEM2. REFER TO PANEL SCHEDULE ON DRAWING E-10 FOR ADDITIONAL INFORMATION. (5) DISCONENCT AND REMOVE EXISTING GENERATOR, INCLUDING BLOCK



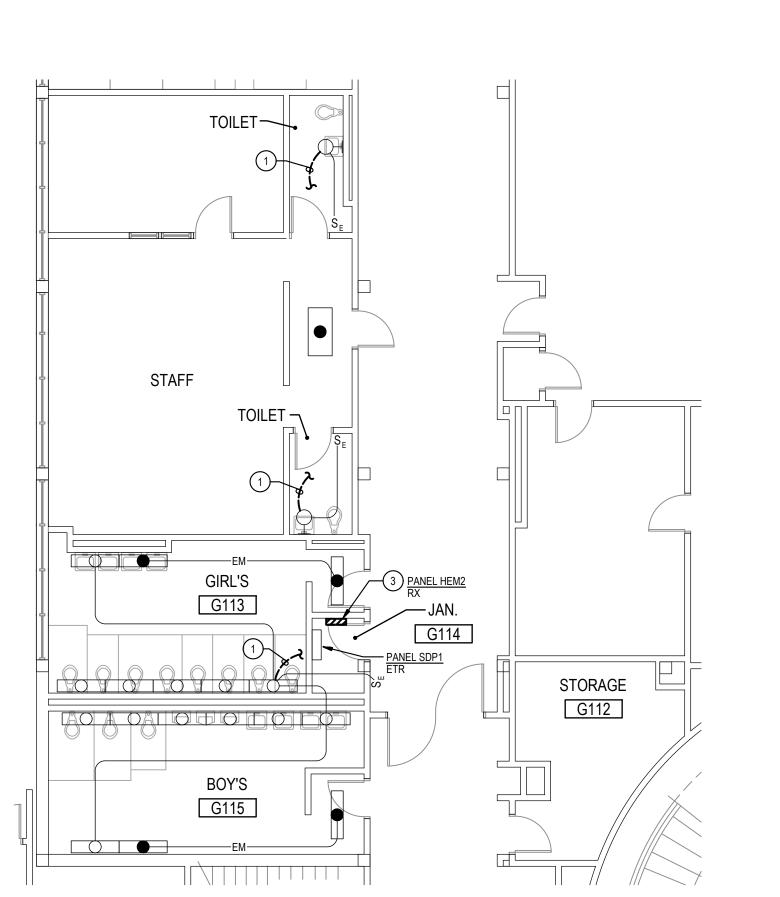




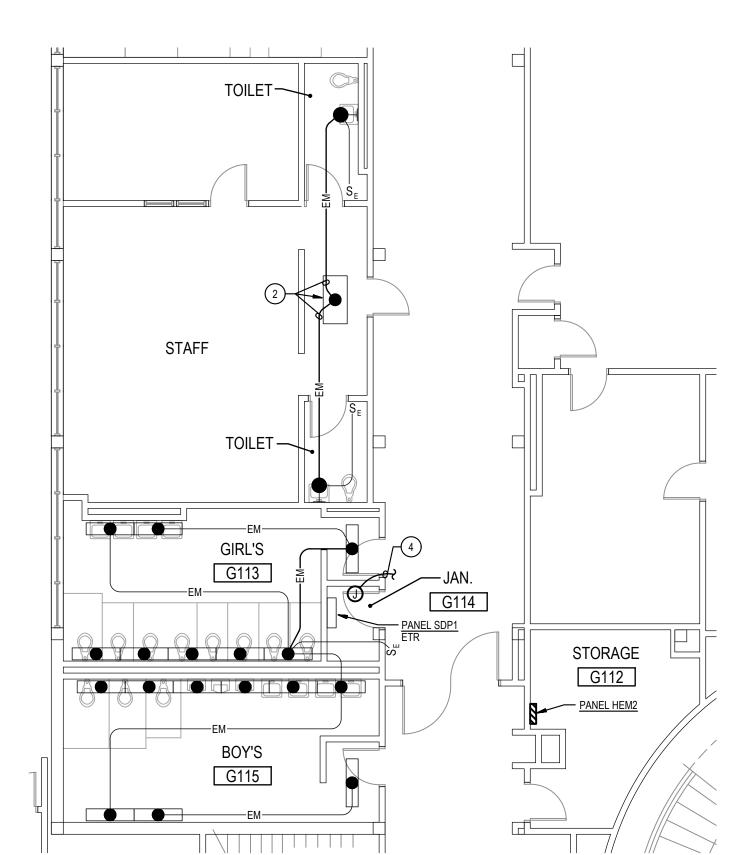


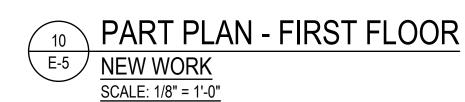
8 PART PLAN - FIRST FLOOR SCALE: 1/8" = 1'-0"





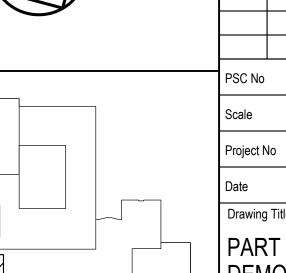






SCALE: 1/8" = 1'-0"





JUNE 20, 2023 PART FLOOR PLANS DEMOLITION AND **NEW WORK**

Description

BID SET

06/20/23

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: 02-24-2024.

James Posey

11155 Red Run Boulevard, Suite 310 Baltimore, Maryland 21117

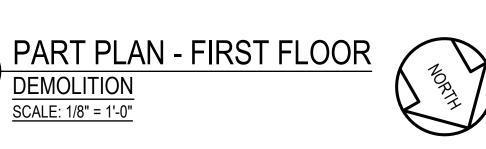
Mechanical & Electrical **Consulting Engineers**

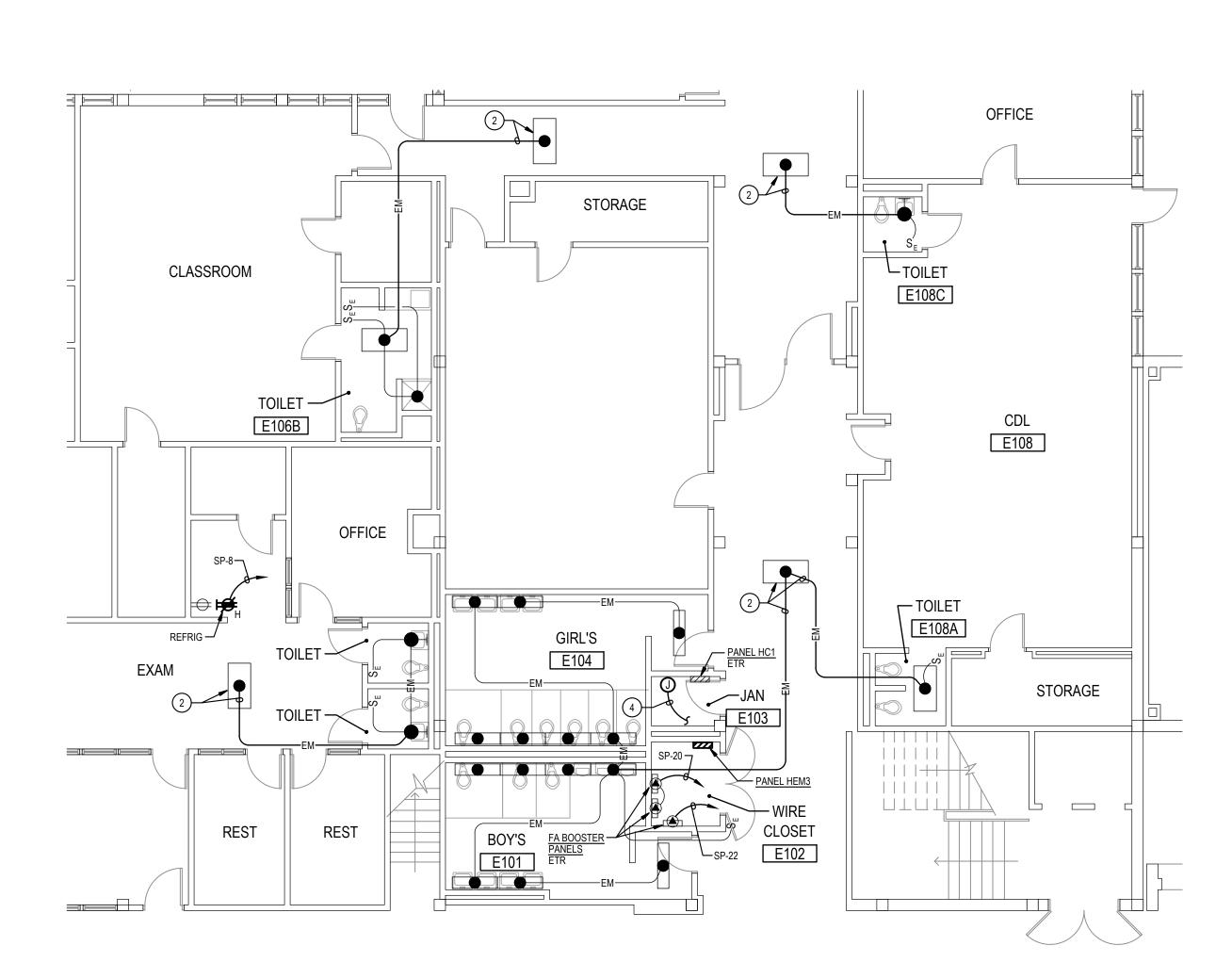
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Associates '

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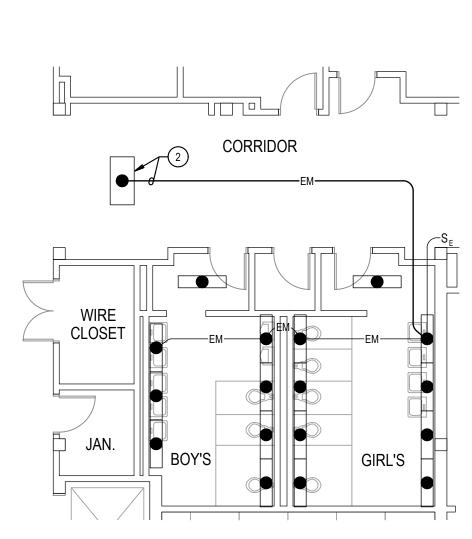


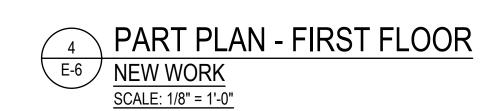
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- B. THE EXISTING FACILITY SHALL REMAIN IN OPERATION DURING RENOVATION. INTERRUPTION TO THE EXISTING BUILDING ELECTRIC SERVICE SHALL BE COORDINATED WITH THE OWNER TO MINIMIZE DISRUPTION. INTERRUPTION OF UTILITIES SHALL NOT OCCUR DURING SCHOOL WORKING 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
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- 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
- H. REMOVE EXISTING EQUIPMENT AND DEVICES INDICATED, INCLUDING ASSOCIATED WIRE AND CONDUIT BACK TO SOURCE UNLESS OTHERWISE
- 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:

- DISCONNECT AND REMOVE EXISTING WIRING IN CONDUIT SERVING EXISTING LIGHTING FIXTURE(S).
- PROVIDE 2#12+#12G IN 3/4" CONDUIT AND CONNECT TO NEAREST EXISTING UNSWITCHED EMERGENCY LIGHTING CIRCUIT.
- REMOVE PORTION OF EXISTING CONDUIT AND WIRING BACK TO ACCESSIBLE CEILING SPACE FOR SPLICING TO NEW PANEL. REFER TO NEW WORK PART PLAN FOR ADDITIONAL INFORMATION.
- 4 EXTEND EXISTING LIGHTING CIRCUITS TO NEW PANEL HEM3. REFER TO PANEL SCHEDULE ON DRAWING E-10 FOR ADDITIONAL INFORMATION.

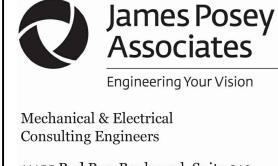








Professional Certification.
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland, License No. 24861, Expiration date: 02-24-2024.



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Description

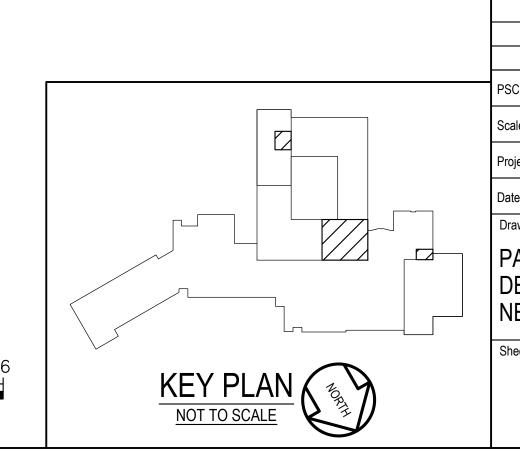
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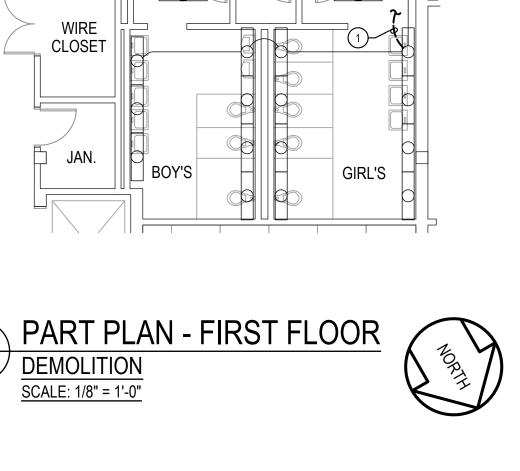


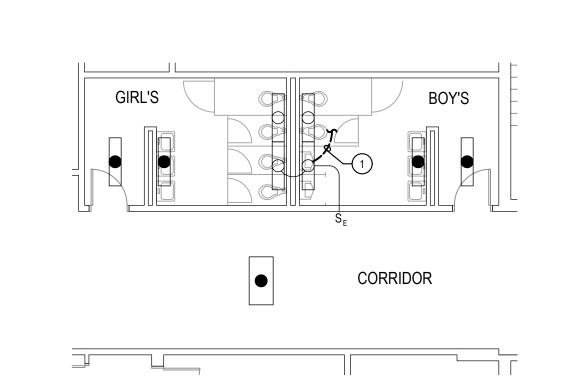
SCALE: 1/8" = 1'-0"

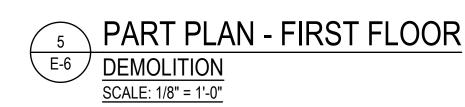




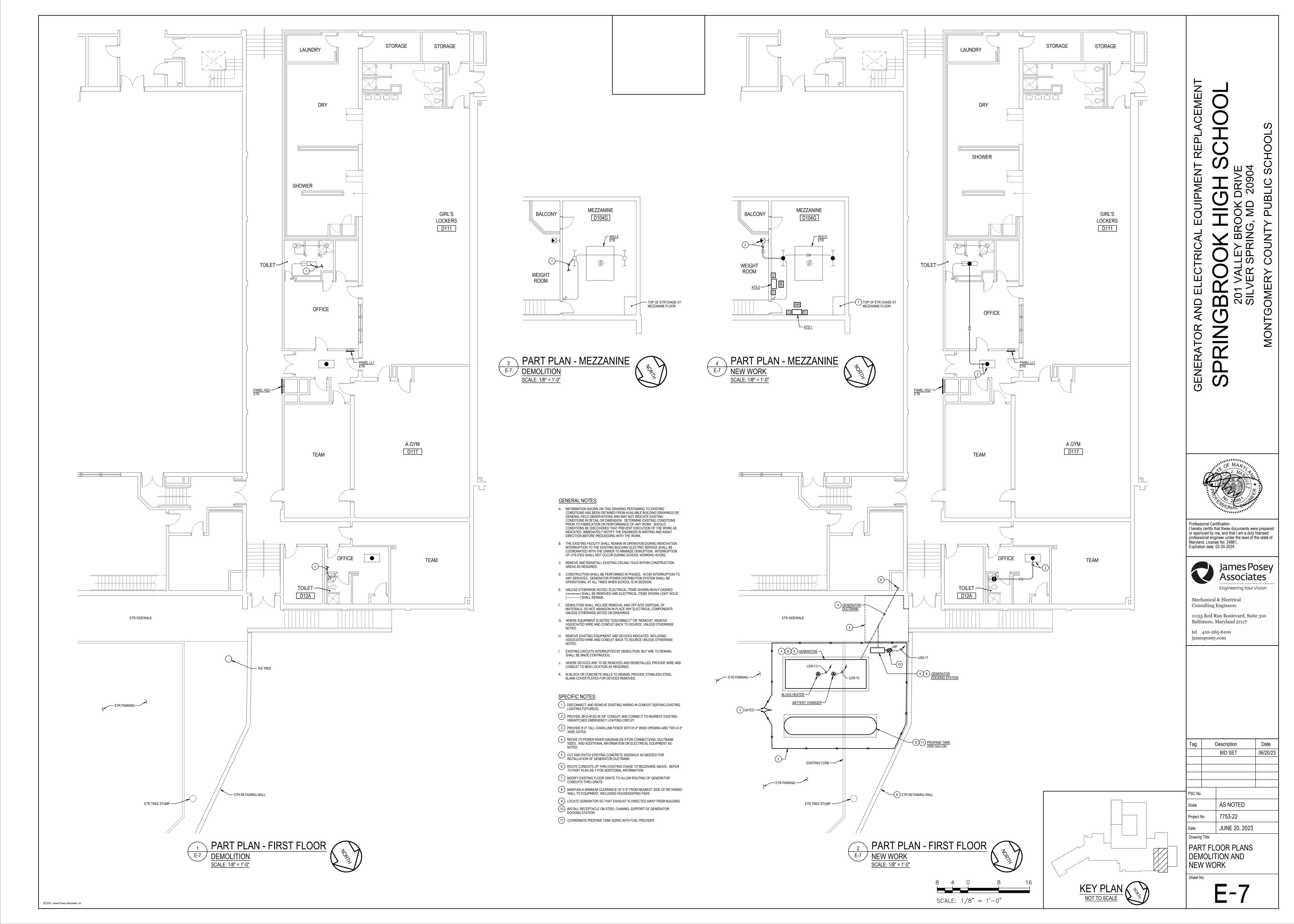
Project No JUNE 20, 2023 PART FLOOR PLANS DEMOLITION AND **NEW WORK**

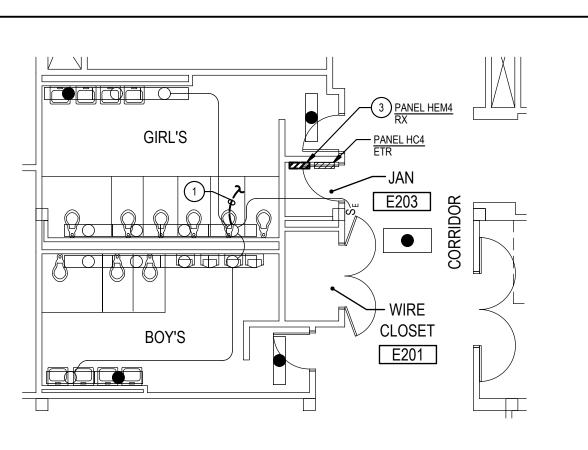




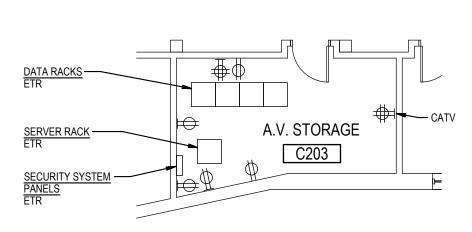




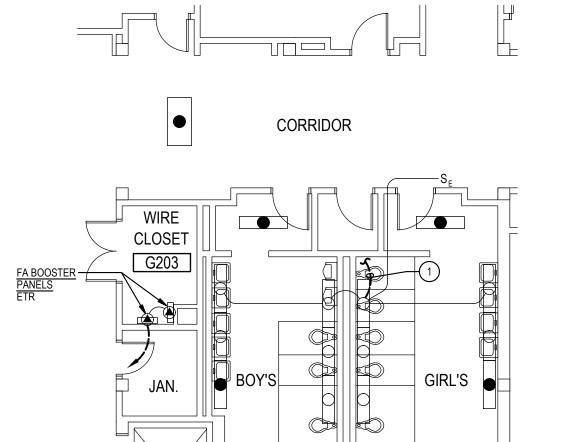




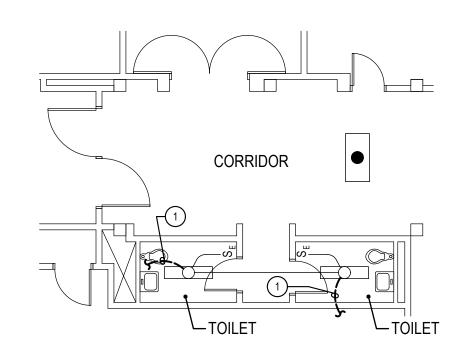




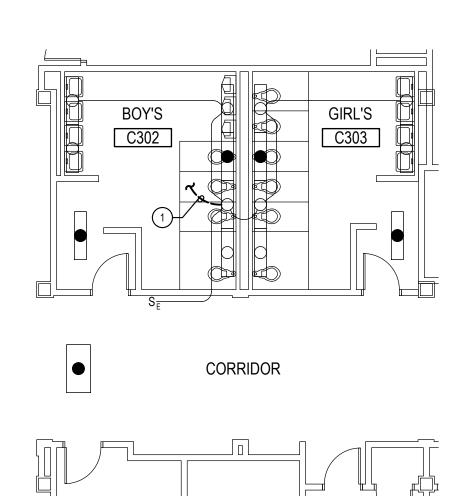
PART PLAN - SECOND FLOOR DEMOLITION SCALE: 1/8" = 1'-0"



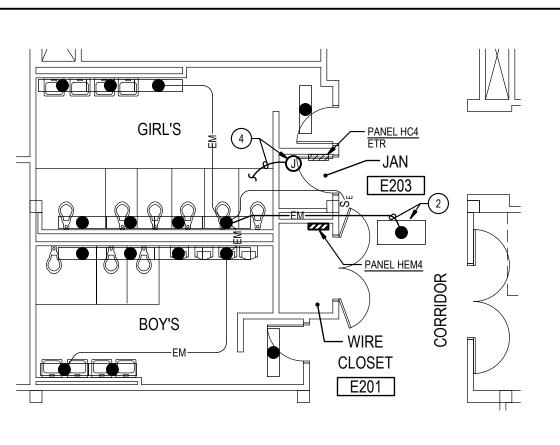
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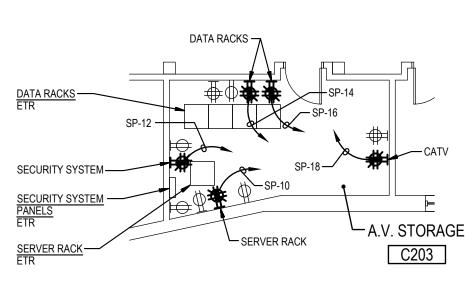
PART PLAN - SECOND FLOOR E-8 DEMOLITION SCALE: 1/8" = 1'-0"



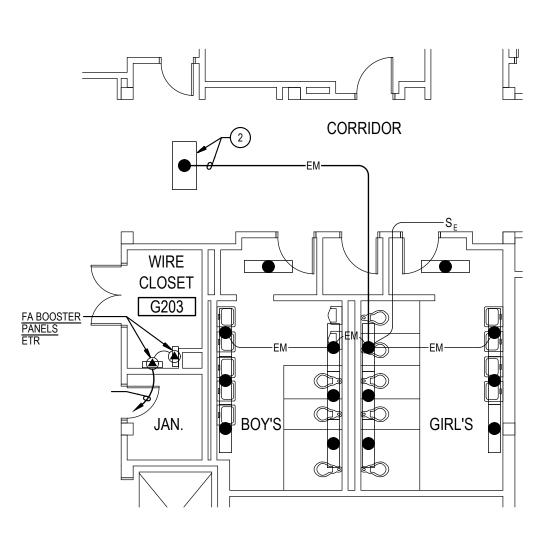
PART PLAN - THIRD FLOOR E-8 DEMOLITION SCALE: 1/8" = 1'-0"



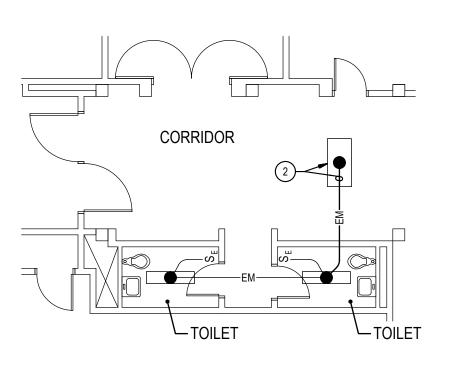
PART PLAN - SECOND FLOOR NEW WORK 、E-8 *丿* SCALE: 1/8" = 1'-0"



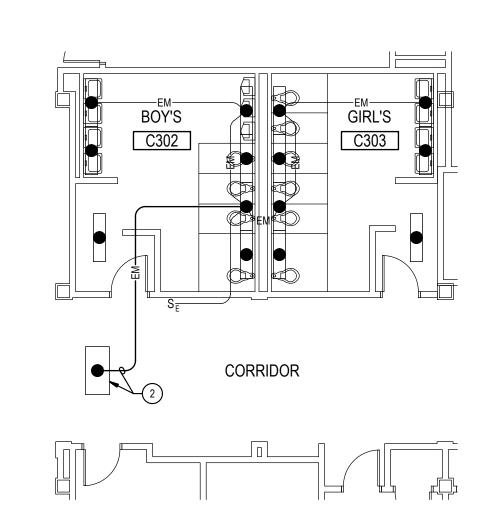
PART PLAN - SECOND FLOOR SCALE: 1/8" = 1'-0"



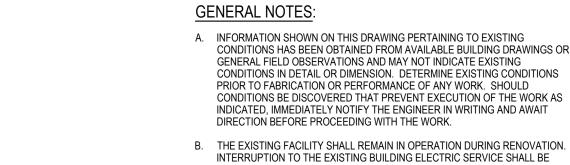
PART PLAN - SECOND FLOOR NEW WORK SCALE: 1/8" = 1'-0"



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



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



GENERAL NOTES (CONTINUED): A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING

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INDICATED, IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT

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OPERATIONAL AT ALL TIMES WHEN SCHOOL IS IN SESSION.

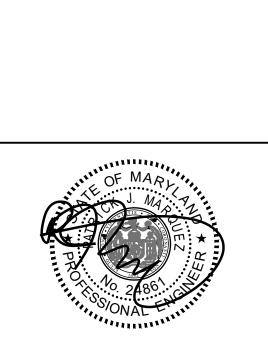
DIRECTION BEFORE PROCEEDING WITH THE WORK.

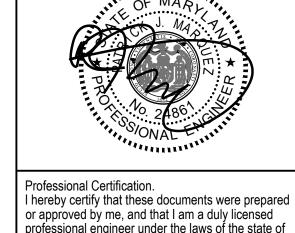
AREAS AS REQUIRED.

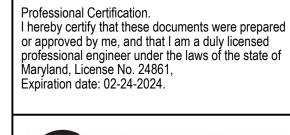
(———) SHALL REMAIN.

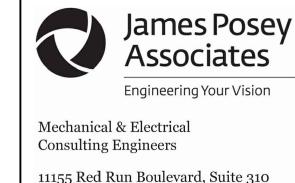
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- REMOVE PORTION OF EXISTING CONDUIT AND WIRING BACK TO ACCESSIBLE CEILING SPACE FOR SPLICING TO NEW PANEL. REFER TO NEW WORK PART PLAN FOR ADDITIONAL INFORMATION.
- 4 EXTEND EXISTING LIGHTING CIRCUITS TO NEW PANEL HEM4. REFER TO PANEL SCHEDULE ON DRAWING E-10 FOR ADDITIONAL INFORMATION.
- 5 EXTEND EXISTING LIGHTING CIRCUITS TO NEW PANEL HEM5. REFER TO PANEL SCHEDULE ON DRAWING E-10 FOR ADDITIONAL INFORMATION.



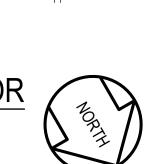


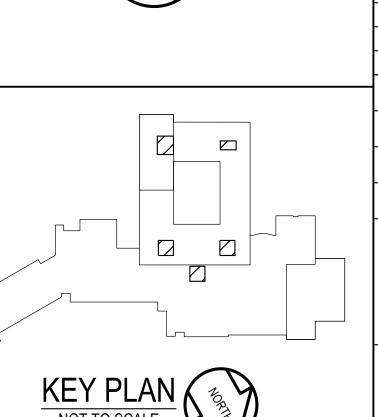


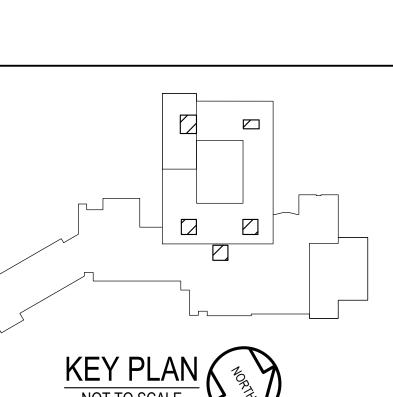


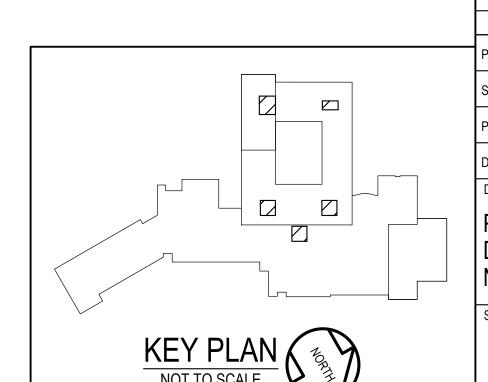


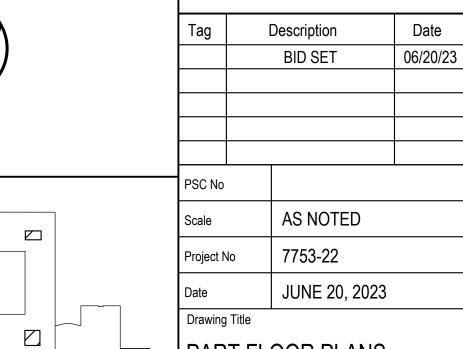




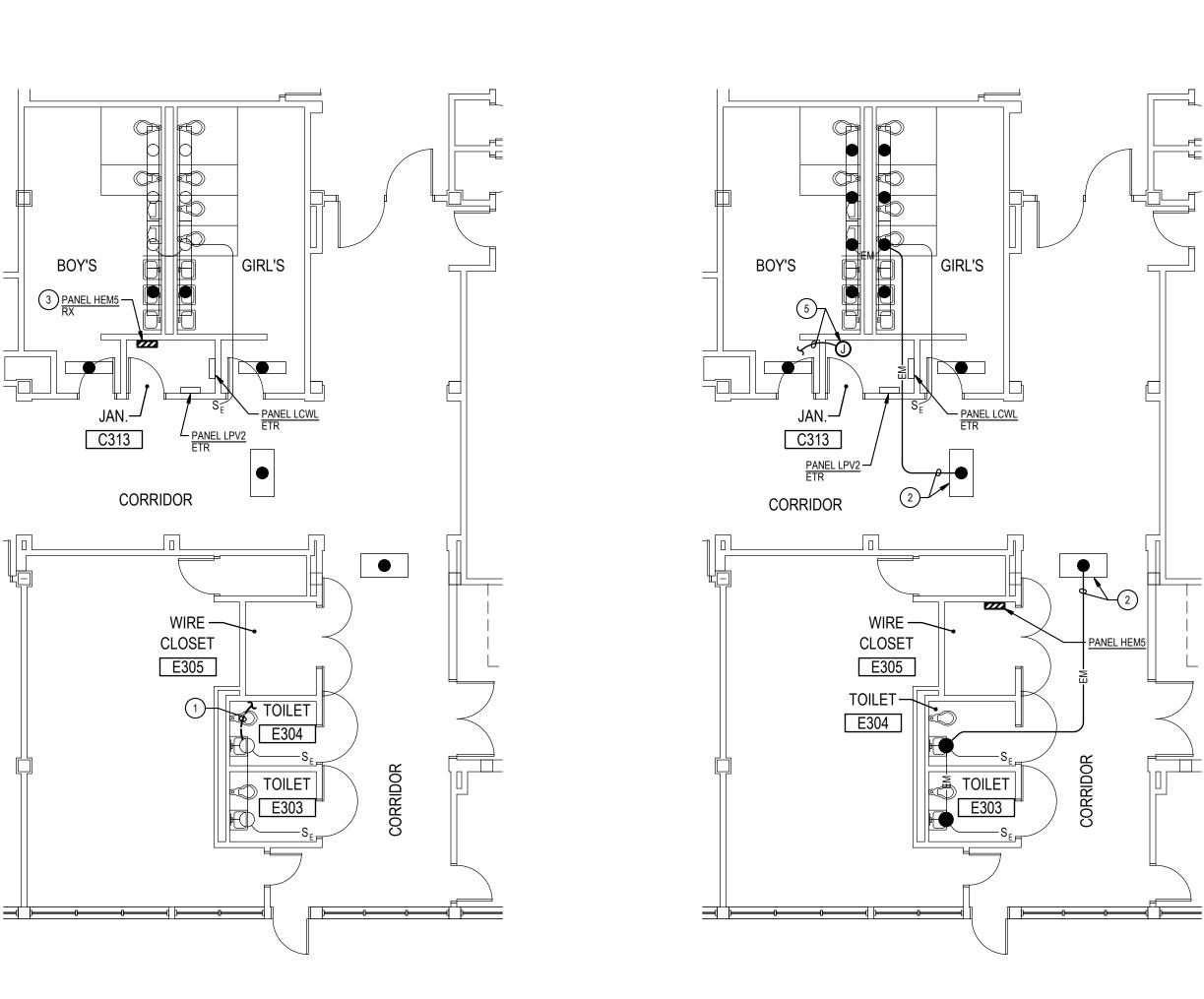


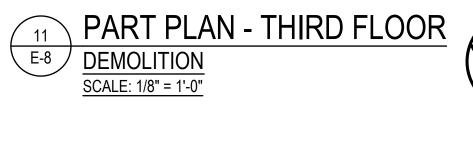


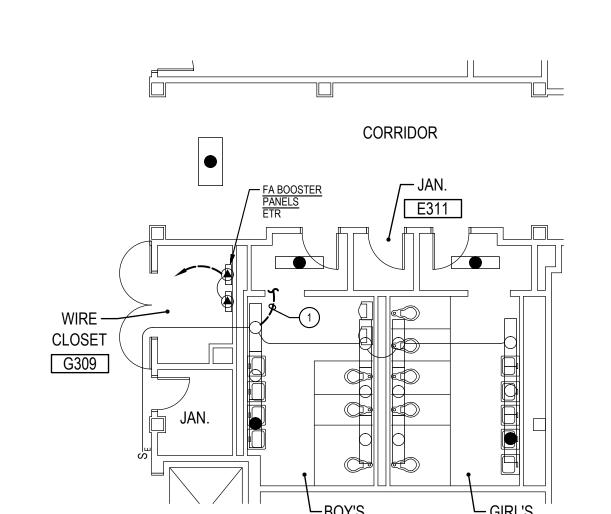


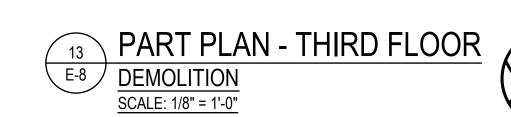


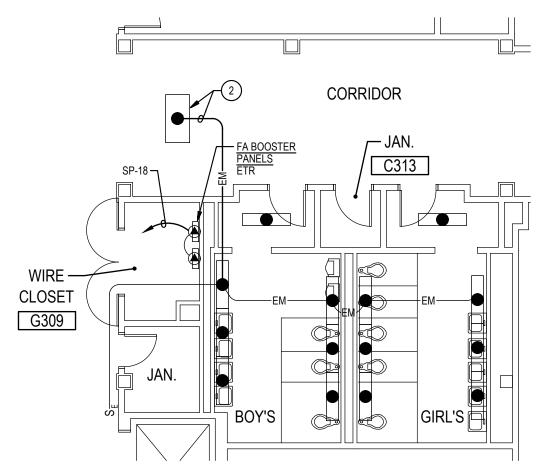
PART FLOOR PLANS DEMOLITION AND **NEW WORK**











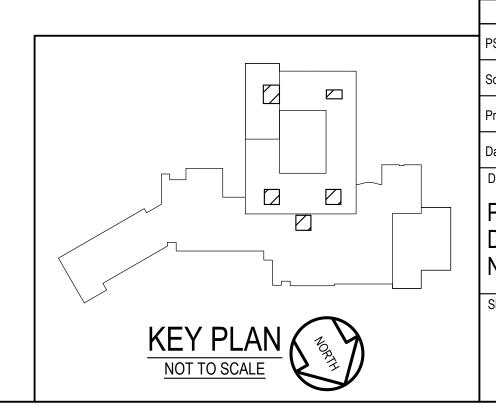
PART PLAN - THIRD FLOOR

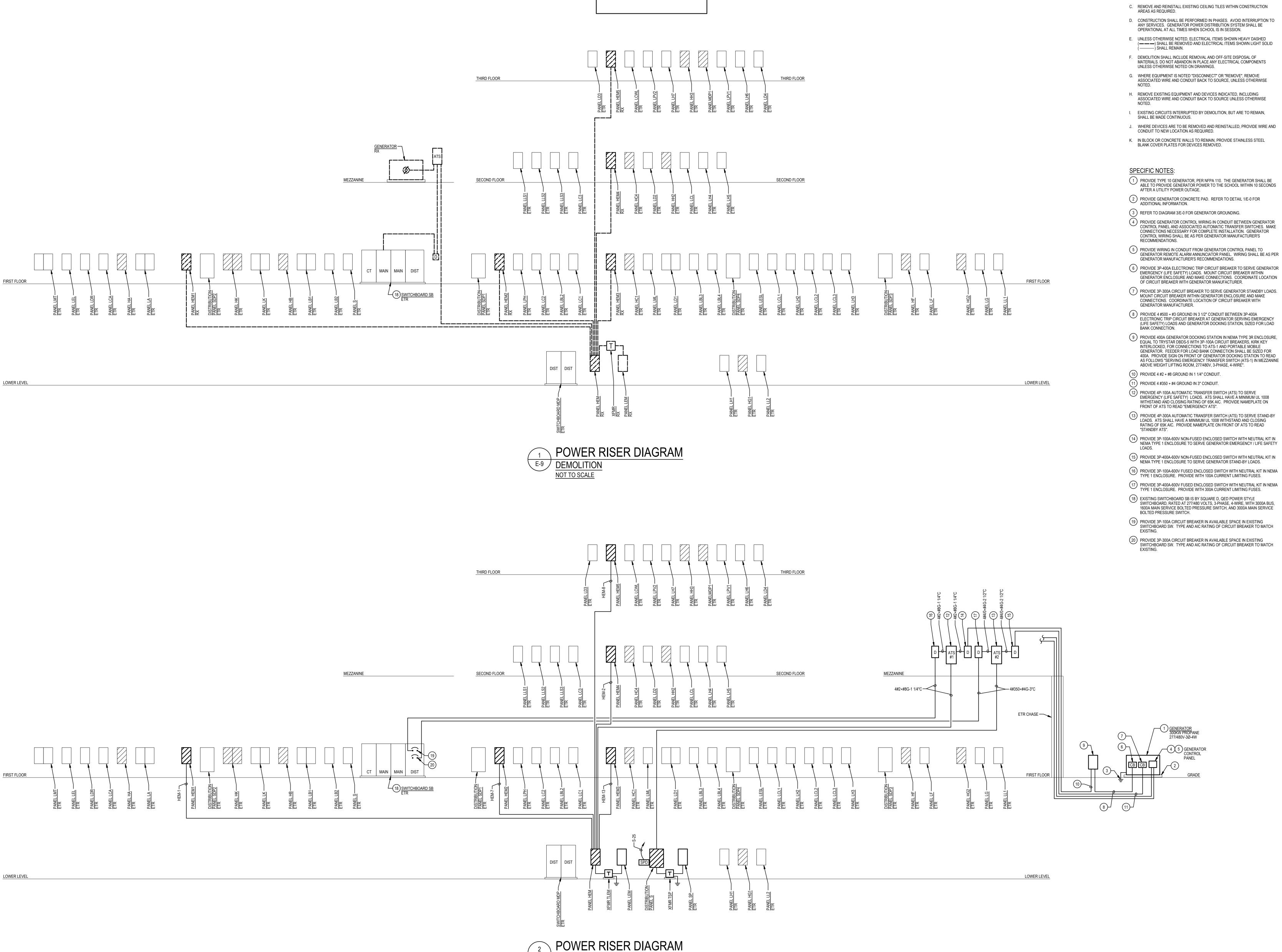
E-8 NEW WORK

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



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





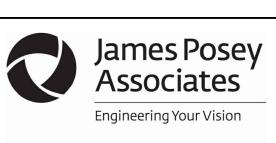
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- MATERIALS. DO NOT ABANDON IN PLACE ANY ELECTRICAL COMPONENTS
- H. REMOVE EXISTING EQUIPMENT AND DEVICES INDICATED, INCLUDING
- I. EXISTING CIRCUITS INTERRUPTED BY DEMOLITION, BUT ARE TO REMAIN,
- J. WHERE DEVICES ARE TO BE REMOVED AND REINSTALLED, PROVIDE WIRE AND
- K. IN BLOCK OR CONCRETE WALLS TO REMAIN, PROVIDE STAINLESS STEEL
- (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.
- 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
- GENERATOR REMOTE ALARM ANNUNCIATOR PANEL. WIRING SHALL BE AS PER GENERATOR MANUFACTURER'S RECOMMENDATIONS.
- (6) PROVIDE 3P-400A ELECTRONIC TRIP CIRCUIT BREAKER TO SERVE GENERATOR EMERGENCY (LIFE SAFETY) LOADS. MOUNT CIRCUIT BREAKER WITHIN GENERATOR ENCLOSURE AND MAKE CONNECTIONS. COORDINATE LOCATION
- (7) PROVIDE 3P-300A CIRCUIT BREAKER TO SERVE GENERATOR STANDBY LOADS. MOUNT CIRCUIT BREAKER WITHIN GENERATOR ENCLOSURE AND MAKE CONNECTIONS. COORDINATE LOCATION OF CIRCUIT BREAKER WITH
- (LIFE SAFETY) LOADS AND GENERATOR DOCKING STATION, SIZED FOR LOAD
- (9) PROVIDE 400A GENERATOR DOCKING STATION IN NEMA TYPE 3R ENCLOSURE, EQUAL TO TRYSTAR DBDS-5 WITH 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 400A. PROVIDE SIGN ON FRONT OF GENERATOR DOCKING STATION TO READ ABOVE WEIGHT LIFTING ROOM, 277/480V, 3-PHASE, 4-WIRE".
- (13) PROVIDE 4P-300A 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
- PROVIDE 3P-400A-600V NON-FUSED ENCLOSED SWITCH WITH NEUTRAL KIT IN NEMA TYPE 1 ENCLOSURE TO SERVE GENERATOR STAND-BY LOADS.
- EXISTING SWITCHBOARD SB IS BY SQUARE D, QED POWER STYLE SWITCHBOARD, RATED AT 277/480 VOLTS, 3-PHASE, 4-WIRE, WITH 3000A BUS, 1600A MAIN SERVICE BUTTON RESSURE SWITCH, AND 3000A MAIN SERVICE
- PROVIDE 3P-100A CIRCUIT BREAKER IN AVAILABLE SPACE IN EXISTING SWITCHBOARD SW. TYPE AND AIC RATING OF CIRCUIT BREAKER TO MATCH
- (20) PROVIDE 3P-300A CIRCUIT BREAKER IN AVAILABLE SPACE IN EXISTING



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: 02-24-2024.



Mechanical & Electrical **Consulting Engineers**

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

Tag	[Description	Date
		BID SET	06/20/23
SC No			
Scale		AS NOTED	
Project N	10	7753-22	

JUNE 20, 2023 POWER RISER DIAGRAMS

				W	IRIN	IG S	СН	EDI	JLE	: P/	NE	LH	EM				
		277 / 480 VOLTS	3 PHA	SE 4	I WIF	RE			12	5 AN	1PB	US		SURFACE MO	DUNTED		
CIR- CUIT	POLE	DESCRIPTION	WIRE/ CONDUIT	BRE/ POLE	AKER	Α	Ø	KV <i>A</i>		С	Ø	CIR- CUIT	POLE	DESCRIPTION	WIRE/ CONDUIT	BRE/ POLE	AKER AMP
1	1	PANEL HEM1	4#8+	3	40	3.0	2.1					2	2	PANEL HEM4	4#8+	3	40
-	3	1	#10G-					2.0	2.8			-	4		#10G-		
_	5]	3/4"C							2.6	3.6	-	6		3/4"C		
7	7	PANEL HEM2	4#8+	3	40	9.0	2.9					8	8	PANEL HEM5	4#8+	3	40
-	9	1	#10G-					5.6	2.5			-	10		#10G-		
-	11		3/4"C							5.7	0.0	-	12		3/4"C		
13	13	PANEL HEM3	4#8+	3	40	5.0							14	SPARE		1	20
-	15	1	#10G-					1.0					16	SPARE		1	20
_	17		3/4"C							2.5			18	SPARE		1	20
-	19	SPACE AND PROVISIONS	-	1	~	u.	į					_	20	SPACE AND PROVISIONS	u u	1	_
-	21	SPACE AND PROVISIONS	-	1	-			-	-			н.	22	SPACE AND PROVISIONS	-	1	-
-	23	SPACE AND PROVISIONS	-	1	-					-	-	-	24	SPACE AND PROVISIONS	=	1	-
-	25	SPACE AND PROVISIONS	-	1	-		1					-	26	SPACE AND PROVISIONS	-	1	-
-	27	SPACE AND PROVISIONS	-	1	-			-	-			-	28	SPACE AND PROVISIONS	=	1	-
-	29	SPACE AND PROVISIONS	-	1	-						-	-	30	SPACE AND PROVISIONS	-	1	-
-	31	SPACE AND PROVISIONS	-	1	-	-	ı					-	32	SPACE AND PROVISIONS	-	1	-
-	33	SPACE AND PROVISIONS	_	1	-			-	_			-	34	SPACE AND PROVISIONS	=	1	-
-	35	SPACE AND PROVISIONS	-	1	-					1	1	-	36	SPACE AND PROVISIONS	-	1	-
-	37	SPACE AND PROVISIONS	-	1	-	-	ī					38	38	PANEL LEM	3#10+	3	30
-	39	SPACE AND PROVISIONS	-	1	1-			ı	1			ī	40	(VIA XFMR TLEM)	#10G-		
-	41	SPACE AND PROVISIONS	-	1	ı					1	1	-	42		3/4"C		
		CONNECTED LOAD =	50.3	KVA		17.0 22	5.0 2.0	8.6 13	5.3 3.9	10.8 14	3.6						
		DEMAND LOAD =	50.3	KVA										MAIN FUSE	100	_AMPS	3
		MIN AIC RATING =	42,000	AMPS	SYMM	METRIC	CAL							LOCATION	ELEC R	RM	-

(1) PROVIDE FUSIBLE BRANCH CIRCUIT PANELBOARD.

(2) PROVIDE PANELBOARD WITH INTEGRAL SURGE PROTECTIVE DEVICE.

1 1 EXIT / EM LTS #10-3/4"C 1 20 2.0 1.0 2 2 LTS - BOILER RM #10-3/4"C 1 2 3 3 EXIT / EM LTS #10-3/4"C 1 20 2.0 4 4 SPARE 1 2 5 5 EXIT / EM LTS #10-3/4"C 1 20 2.6 6 6 SPARE 1 2 7 SPARE 1 20 8 SPARE 1 2 9 SPARE 1 20 10 SPARE 1 2 11 SPARE 1 20 10 SPARE 1 2 11 SPARE 1 20 10 SPARE 1 2 11 SPARE 1 20 10 SPARE 1 2 - 13 SPACE AND PROVISIONS - 1 - - - - - - - - - - - - - - - - -			277 / 480 VOLTS	3 PHA	SE 4	I WIF	RE			12	5 AN	/IP B	US		SURFACE MO	DUNTED		
3 3 EXIT / EM LTS #10-3/4"C 1 20	CIR- CUIT	POLE	DESCRIPTION				A	Ø			C	Ø		POLE	DESCRIPTION			
5 5 EXIT/EM LTS #10-3/4"C 1 20	1	1	EXIT / EM LTS	#10-3/4"C	1	20	2.0	1.0					2	2	LTS - BOILER RM	#10-3/4"C	1	20
7 SPARE 1 20	3	3	EXIT / EM LTS	#10-3/4"C	1	20			2.0				4	4	SPARE		1	20
9 SPARE 1 20	5	5	EXIT / EM LTS	#10-3/4"C	1	20					2.6		6	6	SPARE		1	20
11 SPARE 1 20		7	SPARE		1	20								8	SPARE		1	20
- 13 SPACE AND PROVISIONS - 1 14 SPACE AND PROVISIONS - 1 - 15 SPACE AND PROVISIONS - 1 16 SPACE AND PROVISIONS - 1 - 1 17 SPACE AND PROVISIONS - 1 18 SPACE AND PROVISIONS - 1 - 1 1 SPACE AND PROVISIONS - 1		9	SPARE		1	20								10	SPARE		1	20
- 15 SPACE AND PROVISIONS - 1 16 SPACE AND PROVISIONS - 1 - 17 SPACE AND PROVISIONS - 1 18 SPACE AND PROVISIONS - 1 - 1		11	SPARE		1	20								12	SPARE		1	20
- 17 SPACE AND PROVISIONS - 1 - 1 - 2.0 1.0 2.0 0.0 2.6 0.0 CONNECTED LOAD = 7.6 KVA 3.0 2.0 0.0 2.6 0.0 MAIN BREAKER 40 AMPS	-	13	SPACE AND PROVISIONS	-	1	-	-	-					-	14	SPACE AND PROVISIONS	_	1	-
CONNECTED LOAD = 7.6 KVA 2.0 0.0 2.6 0.0 CONNECTED LOAD = 7.6 KVA 3.0 2.0 0.0 2.6 0.0	-	15	SPACE AND PROVISIONS	-	1	-			-	-			-	16	SPACE AND PROVISIONS	-	1	-
CONNECTED LOAD = 7.6 KVA 3.0 2.0 2.6 MAIN BREAKER 40 AMPS	-	17	SPACE AND PROVISIONS	-	1	-					-	-	-	18	SPACE AND PROVISIONS	-	1	-
					_				-						MAIN BREAKER	40	_AMPS	3
MIN AIC RATING = 14,000 AMPS SYMMETRICAL LOCATION RECEIVING B117			MIN AIC RATING =	14,000	AMPS	SYMM	METRIC	CAL							LOCATION	RECEIVING	B117	_

		277 / 480 VOLTS	3 PHA	SF 4	1 \/\/IF	?F			12!	5 AN	IP B	US		SURFACE MO	DUNTED		
CIR- I	POLE		WIRE/ CONDUIT	BRE	AKER		Ø	KV <i>A</i>	\/Ø	C			POLE		WRE/	BREA	
1	1	EXIT / EM LTS	#10-3/4"C	1	20	3.0	Ĩ		Ĩ		_	0011	2	SPARE	CONDON	1	2
3	3	OUTSIDE LTS	#10-3/4"C	1	20			2.8	2.8			4	4	OUTSIDE LTS	#10-3/4"C	1	20
5	5	EXIT / EM LTS	#10-3/4"C	1	20					4.1	1.6	6	6	EXIT / EM LTS	#10-3/4"C	1	2
7	7	EXIT / EM LTS	#10-3/4"C	1	20	3.9	2.1					8	8	EXIT / EM LTS	#10-3/4"C	1	2
	9	SPARE		1	20								10	SPARE		1	2
	11	SPARE		1	20								12	SPARE		1	2
_	13	SPACE AND PROVISIONS	_	1	-	-	-					-	14	SPACE AND PROVISIONS	_	1	-
-	15	SPACE AND PROVISIONS		1	-			-	-			_	16	SPACE AND PROVISIONS	_	1	-
-	17	SPACE AND PROVISIONS	-	1	-					_	-	-	18	SPACE AND PROVISIONS	=	1	-
		CONNECTED LOAD =	20.3	KVA		6.9 9	2.1 .0	2.8 5	2.8 .6	4.1 5	1.6 7			MAINIBREAKER	40	AMDO	
		DEMAND LOAD =	20.3	KVA										MAIN BREAKER	40	_AMPS	i
		MIN AIC RATING =	14,000	AMPS	SYMM	IETRI	CAL							LOCATION	STORAGE	G112	_

		277 / 480 VOLTS	3 PHAS	SE 4	1 WIF	RE			125	5 AN	1PB	US		SURFACE MO	DUNTED		
CIR- CUIT	POLE	DESCRIPTION	WIRE/ CONDUIT		AKER	Α	Ø		A/Ø Ø	С	Ø	CIR- CUIT	POLE	DESCRIPTION	WIRE/ CONDUIT	BRE/ POLE	
1	1	EXIT / EM LTS	#10-3/4"C	1	20	3.2	1.8					2	2	EXIT / EM LTS	#10-3/4"C	1	20
3	3	OUTSIDE LTS	#10-3/4"C	1	20				1.0			4	4	OUTSIDE LTS	#10-3/4"C	1	20
	5	SPARE		1	20						2.5	6	6	EXIT / EM LTS	#10-3/4"C	1	20
	7	SPARE		1	20								8	SPARE		1	20
	9	SPARE		1	20								10	SPARE		1	20
	11	SPARE		1	20								12	SPARE		1	20
-	13	SPACE AND PROVISIONS	-	1	-	-	-					_	14	SPACE AND PROVISIONS	-	1	-
-	15	SPACE AND PROVISIONS	-	1	-			-	-			-	16	SPACE AND PROVISIONS	-	1	-
-	17	SPACE AND PROVISIONS	-	1	-						-	-	18	SPACE AND PROVISIONS	-	1	_
	•	CONNECTED LOAD =	8.5	KVA		3.2 5	1.8 .0	0.0	1.0 .0	0.0	2.5 .5			MAIN BREAKER	40	AMPS	;
		DEMAND LOAD = MIN AIC RATING =	14,000	AMPS	SYMM	1ETRK	CAL							LOCATION	WIRE CLOS	E102	-

		277 / 480 VOLTS	3 PHA	SE 4	I WII	RE			12	5 AN	1PB	US		SURFACE MO	DUNTED		
CIR- CUIT	POLE	DESCRIPTION	WIRE/ CONDUIT		AKER AMP	Α	Ø		A/Ø BØ	С	Ø	CIR- CUIT	POLE	DESCRIPTION	WIRE/ CONDUIT	BRE/ POLE	
1	1	SPARE		1	20	-	2.1					2	2	CORRIDOR EXIT / EM LTS	#10-3/4"C	1	1
3	3	SPARE		1	20			-	2.8			4	4	CORRIDOR EXIT / EM LTS	#10-3/4"C	1	
5	5	SPARE		1	20					-	3.6	6	6	CORRIDOR EXIT / EM LTS	#10-3/4"C	1	1
7	7	SPARE		1	20	-	-					8	8	SPARE		1	1
9	9	SPARE		1	20			-	-			10	10	SPARE		1	1
11	11	SPARE		1	20					-	-	12	12	SPARE		1	
13	13 SPACE AND PROVISIONS 1 - - 15 SPACE AND PROVISIONS 1 -					-	_					14	14	SPACE AND PROVISIONS		1	
15	15	SPACE AND PROVISIONS		1	-			-	_			16	16	SPACE AND PROVISIONS		1	
17	17	SPACE AND PROVISIONS		1	-					-	-	18	18	SPACE AND PROVISIONS		1	
		CONNECTED LOAD =	8.5	_KVA		0.0	2.1	0.0	2.8	0.0	3.6 .6			MAIN BREAKER	40	AMPS	3
		DEMAND LOAD =	8.5	KVA													
		MIN AIC RATING =	8.5 KVA 14,000 AMPS SYMMETRICAL										LOCATION	WIRE CLOS	E201	_	

	DESCRIPTION CORRIDOR EXIT / EM LTS	WIRE/ CONDUIT		AKER			1/1//	. ~								
1 1 C	CORRIDOR EXIT / EM LTS		POLE	AMP	Α	Ø		Ø Ø	С	Ø	CIR- CUIT	POLE	DESCRIPTION	WIRE/ CONDUIT	BRE/ POLE	
3 3 C		#10-3/4"C	1	20	2.9						2	2	SPARE		1	20
	CORRIDOR EXIT / EM LTS	#10-3/4"C	1	20			2.5				4	4	SPARE		1	20
5 S	SPARE		1	20								6	SPARE		1	20
7 S	SPARE		1	20								8	SPARE		1	20
9 S	SPARE		1	20								10	SPARE		1	20
11 S	SPARE		1	20								12	SPARE		1	20
- 13 S	SPACE AND PROVISIONS	-	1	-	-	-					-	14	SPACE AND PROVISIONS	-	1	-
- 15 S	SPACE AND PROVISIONS	-	1	-			-	-			-	16	SPACE AND PROVISIONS	-	1	-
- 17 S	SPACE AND PROVISIONS	-	1	-					-		-	18	SPACE AND PROVISIONS	-	1	-
	CONNECTED LOAD =	5.4	KVA		2.9	0.0 .9	2.5	0.0 .5	0.0	0.0			MAIN BREAKER	40	AMPS	6
M	ЛIN AIC RATING =	14,000	AMPS	SYMM	METRIC	CAL							LOCATION	WIRE CLOS	E305	-

O ID	DOI -	120 / 208 VOLTS	3 PHAS			\ <u>_</u>		10.0		O AN	ם יוו		DOI -	SURFACE MO		LDDE	A 17 E
CIR-	POLE	DESCRIPTION	WIRE/ CONDUIT	POLE	AKER	А	Ø		A/Ø Ø	С	Ø	CIR-	POLE	DESCRIPTION	WIRE/ CONDUIT	BRE/POLE	
1	1	FACP	#8-3/4"C	1	20	0.2			_		~	2	2	ADUDIO - GYM	#8-3/4"C	1	2
3	3	FA PANELS	#8-3/4"C	1	20			0.2	0.2			4	4	AUDIO - CHILD DEVELOPMENT	#8-3/4"C	1	2
5	5	FA PANELS	#8-3/4"C	1	20					0.2	0.2	6	6	REC - WORKROOM	#8-3/4"C	1	2
7	7	GREENHOUSE	#8-3/4"C	1	20	0.2	0.6					8	8	TUNNEL LIGHTS	#8-3/4"C	1	2
9	9	GREENHOUSE	#8-3/4"C	1	20			0.2	0.2			10	10	FA PANELS	#8-3/4"C	1	2
11	11	GREENHOUSE	#8-3/4"C	1	20					0.2	0.2	12	12	FA PANELS	#8-3/4"C	1	2
13	13	GEN. BLOCK HEATER	#8-3/4"C	1	20	0.5	0.2					14	14	FA PANELS	#8-3/4"C	1	2
15	15	GEN. BATTERY CHARGER	#8-3/4"C	1	20			0.5	0.2			16	16	FA PANELS	#8-3/4"C	1	2
17	17	RECEPT - GENERATOR YARD	#8-3/4"C	1	20					0.2	0.2	18	18	FA PANELS	#8-3/4"C	1	2
	19	SPARE		1	20		0.2					20	20	FA PANELS	#8-3/4"C	1	2
	21	SPARE		1	20				0.2			22	22	FA PANELS	#8-3/4"C	1	2
	23	SPARE		1	20								24	SPARE		1	2
	25	SPARE		1	20								26	SPARE		1	2
	27	SPARE		1	20								28	SPARE		1	2
	29	SPARE		1	20								30	SPARE		1	2
		CONNECTED LOAD =	5.0	KVA		0.9	1.2 .1	0.9	0.8 .7	0.6	0.6						
		DEMAND LOAD =	5.0	KVA										MAIN BREAKER	50	_AMPS	•
		MIN AIC RATING =	10,000	AMPS	SYMM	IETRIC	CAL							LOCATION	ELEC F	RM	_

		277 / 480 VOLTS	3 PHA	SE 4	1 WIF	RE			600	AN (1PB	US		SURFACE MC	UNTED		
CIR- CUIT	POLE	DESCRIPTION	WIRE/ CONDUIT		AKER AMP	Α	.Ø		A/Ø BØ	С	Ø	CIR- CUIT	POLE	DESCRIPTION	WIRE/ CONDUIT	BRE.	
1	1	BOILER-1	3#12+	3	15	1.0	32.9					2	2	PUMP-1	3#3/0+	3	250
-	3]	#12G-					1.0	32.9			-	4		#6G-		
_	5		3/4"C							1.0	32.9	-	6		2"C		
7	7	BOILER-2	3#12+	3	15	1.0	32.9					8	8	PUMP-2	3#3/0+	3	250
-	9]	#12G-					1.0	32.9			-	10		#6G-		
-	11		3/4"C							1.0	32.9	-	12		2"C		
-	13	SPACE AND PROVISIONS	-	1	=	-	-					-	14	SPACE AND PROVISIONS	=	1	-
-	15	SPACE AND PROVISIONS	-	1	-			-	-			-	16	SPACE AND PROVISIONS	-	1	-
_	17	SPACE AND PROVISIONS	-	1	-					-	-	-	18	SPACE AND PROVISIONS	-	1	-
-	19	SPACE AND PROVISIONS	-	1	-	-	-					-	20	SPACE AND PROVISIONS	-	1	-
-	21	SPACE AND PROVISIONS	=	1	-			-	-			-	22	SPACE AND PROVISIONS	-	1	-
	23	SPACE AND PROVISIONS	-	1	-					-	-	-	24	SPACE AND PROVISIONS	-	1	-
25	25	SURGE PROTECTIVE DEVICE	4#8+	3	30	-	9.4					26	26	XFMR TSP	3#3+	3	90
-	27]	#8G-					-	9.3			-	28	(SERVING PANEL SP)	#8G-		
-	29		1"C							-	8.3	-	30		1 1/4"C		
•						2.0			75.1					,			
		CONNECTED LOAD =	230.4	_KVA		71	7.2	7	7.1	76	5.1	J		MAINIBBEAKED	200	ANADO	
		DEMAND LOAD =	128.7	KVA										MAIN BREAKER _	300	_AMPS	•
		MIN AIC RATING =	65,000	AMPS	SYMM	1ETRK	CAL							LOCATION	ELEC F	RM	

DESCRIPTION ICE MAKER FREEZER COMPRESSOR COOLER COMPRESSOR FREEZER EVAPORATOR COOLER EVAPORATOR	3 PHAS WIRE/ CONDUIT #8-3/4"C 3#8+ #10G- 3/4"C 3#12+ #12G- 3/4"C 2#10+ #10G-3/4"C	BRE/POLE 1 3 3	AKER		0.5 0.4	3.0		3.0	1.5 0.4	CIR- CUIT 2 4 6 8 10	POLE 2 4 6 8 10	SUMP PUMP SEWAGE EJEC. PUMP 1 SEWAGE EJEC. PUMP 2 RECEPT - REFRIG - HEALTH RM	WIRE/ CONDUIT #8-3/4"C #8-3/4"C #8-3/4"C #8-3/4"C #8-3/4"C	BREA POLE 1 1 1 1	20 20 20 20
ICE MAKER FREEZER COMPRESSOR COOLER COMPRESSOR FREEZER EVAPORATOR	CONDUIT #8-3/4"C 3#8+ #10G- 3/4"C 3#12+ #12G- 3/4"C 2#10+ #10G-3/4"C	9 POLE 1 3 3	AMP 20 40	3.0	0.5	3.0	Ø 1.5	3.0	1.5	2 4 6 8 10	2 4 6 8	SUMP PUMP SEWAGE EJEC. PUMP 1 SEWAGE EJEC. PUMP 2 RECEPT - REFRIG - HEALTH RM	#8-3/4"C #8-3/4"C #8-3/4"C #8-3/4"C	1 1 1 1	20 20 20 20 20
FREEZER COMPRESSOR COOLER COMPRESSOR FREEZER EVAPORATOR	3#8+ #10G- 3/4"C 3#12+ #12G- 3/4"C 2#10+ #10G-3/4"C	3 3	15	3.0	0.5					4 6 8 10	4 6 8	SEWAGE EJEC. PUMP 1 SEWAGE EJEC. PUMP 2 RECEPT - REFRIG - HEALTH RM	#8-3/4"C #8-3/4"C #8-3/4"C	1 1 1	20 20 20
COOLER COMPRESSOR FREEZER EVAPORATOR	#10G- 3/4"C 3#12+ #12G- 3/4"C 2#10+ #10G-3/4"C	3	15							6 8 10	6	SEWAGE EJEC. PUMP 2 RECEPT - REFRIG - HEALTH RM	#8-3/4"C #8-3/4"C	1	20 20
FREEZER EVAPORATOR	3/4"C 3#12+ #12G- 3/4"C 2#10+ #10G-3/4"C	2				1.0	0.4			8	8	RECEPT - REFRIG - HEALTH RM	#8-3/4"C	1	20
FREEZER EVAPORATOR	3#12+ #12G- 3/4"C 2#10+ #10G-3/4"C	2				1.0	0.4	1.0	0.4	10			CHANGE WATER CAN		
FREEZER EVAPORATOR	#12G- 3/4"C 2#10+ #10G-3/4"C	2		1.0	0.4	1.0	0.4	1.0	0.4		10	DECEDT AVICTOR COOS	#8-3/4"C	1	
	3/4"C 2#10+ #10G-3/4"C		30	1.0	0.4			1.0	0.4	1		RECEPT - AV STOR C203			20
	2#10+ #10G-3/4"C		30	1.0	0.4					12	12	RECEPT - AV STOR C203	#8-3/4"C	1	20
	#10G-3/4"C		30							14	14	RECEPT - AV STOR C203	#8-3/4"C	1	20
COOLER EVAPORATOR						2.0	0.4			16	16	RECEPT - AV STOR C203	#8-3/4"C	1	20
COOLER EVAPORATOR	2#12+		1					2.0	0.4	18	18	RECEPT - AV STOR C203	#8-3/4"C	1	20
		2	15	1.0	0.5					20	20	RECEPT - PA SYSTEM	#8-3/4"C	1	20
	#12G-3/4"C					1.0					22	SPARE		1	20
SPARE		1	15								24	SPARE		1	20
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SPACE AND PROVISIONS	-	1	1=					-	1	-	42	SPACE AND PROVISIONS	-	1	-
CONNECTED LOAD =	27.0	KVA										MAIN BREAKER	150	AMPS	
DEMAND LOAD =	24.6	KVA										W, W SILE, WEIN	100	-	
MIN AIC RATING =	10,000	AMPS	SYMN	/IETRK	CAL							LOCATION	ELEC F	RM	-
	SPARE SPACE AND PROVISIONS CONNECTED LOAD = DEMAND LOAD = MIN AIC RATING =	SPARE SPACE AND PROVISIONS CONNECTED LOAD = 27.0 DEMAND LOAD = 24.6	SPARE 1 SPARE 1 SPACE AND PROVISIONS - 1 CONNECTED LOAD = 27.0 KVA DEMAND LOAD = 24.6 KVA MIN AIC RATING = 10,000 AMPS	SPARE 1 15 SPARE 1 20 SPACE AND PROVISIONS - 1 - CONNECTED LOAD = 27.0 KVA DEMAND LOAD = 24.6 KVA MIN AIC RATING = 10,000 AMPS SYMIN	SPARE 1 15 SPARE 1 20 SPACE AND PROVISIONS - 1 - CONNECTED LOAD = 27.0 KVA 9 DEMAND LOAD = 24.6 KVA MIN AIC RATING = 10,000 AMPS SYMMETRIC	SPARE 1 15 SPARE 1 20 SPACE AND PROVISIONS - 1 - - CONNECTED LOAD = 27.0 KVA 9.4 DEMAND LOAD = 24.6 KVA MIN AIC RATING = 10,000 AMPS SYMMETRICAL	SPARE 1 15 SPARE 1 20 SPACE AND PROVISIONS - 1 - - CONNECTED LOAD = 27.0 KVA 9.4 9 DEMAND LOAD = 24.6 KVA MIN AIC RATING = 10,000 AMPS SYMMETRICAL	SPARE 1 15 <td>SPARE 1 15 —<td>SPARE 1 15 —<td>SPARE 1 15 —<td>SPARE 1 15 28 SPARE 1 20 30 SPACE AND PROVISIONS - 1 - - 32 SPACE AND PROVISIONS - 1 - - - 34 SPACE AND PROVISIONS - 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(1) PROVIDE GFCI-TYPE CIRCUIT BREAKER.

(2) INTERCEPT & SPLICE EXISTING BRANCH CIRCUIT AT PANELBOARD ENCLOSURE, PREVIOUSLY PANEL LE, TO BE USED AS A PULL BOX. MATCH EXISTING WIRING AND CONDUIT AND EXTEND WIRING AND CONDUIT FROM PANEL SP TO PANELBOARD ENCLOSURE.

(3) PROVIDE PANELBOARD WITH INTEGRAL SURGE PROTECTIVE DEVICE.

SPRINGS SENERATO

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: 02-24-2024.



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

jamesposey.com

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