	ABOVE FINISHED FLOOR	
BCU	BUILDING CONTROL UNIT	
BTU	BRITISH THERMAL UNIT	
CFH	CUBIC FEET PER HOUR	
CFM	CUBIC FEET PER MINUTE	
CLG	CEILING	
COMM.	COMMUNICATION	
CV	CONTROL VALVE	
(D)	DEMOLISH	
DB	DRY BULB	
DCV DEG. F	DEMAND CONTROLLED VENTILATION DEGREES FAHRENHEIT	
DEG. F	DIAMETER	
DX	DIRECT EXPANSION	
'E'	ELECTRICAL CONTRACTOR	
(E)	EXISTING	
EA	EACH	
EAT	ENTERING AIR TEMPERATURE	
EER	ENERGY EFFICIENCY RATING	
ESP	EXTERNAL STATIC PRESSURE	
FAI	FRESH AIR INTAKE	
FD	FLOOR DRAIN	
FLA	FULL LOAD AMPS	
FT. H20	FEET OF WATER	
FTR	FIN TUBE RADIATOR	
'G'	GENERAL CONSTRUCTION CONTRACTOR	
GPM	GALLONS PER MINUTE	
GPH	GALLONS PER HOUR	
Н	HEIGHT	
'H'	HVAC CONTRACTOR	
HP	HORSEPOWER	
IN. IN. W.C. (W.G.)	INCHES INCHES WATER COLUMN (WATER GAUGE	
KW	KILOWATTS	
L	LENGTH	
LAT	LEAVING AIR TEMPERATURE	
LBS	POUNDS	
LCD	LIQUID CRYSTAL DISPLAY	
LDB	LEAVING DRY BULB TEMPERATURE	
LWB	LEAVING WET BULB TEMPERATURE	
LWT	LEAVING WATER TEMPERATURE	
М	METER	
MAX	MAXIMUM	
MBH	1,000 BTU PER HOUR	
MCA	MINIMUM CIRCUIT AMPACITY	
MIN	MINIMUM	
MNF	MANUFACTURER	
N.C.	NORMALLY CLOSED	
N.O.	NORMALLY OPEN	
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	
NPT NTS	NATIONAL PIPE THREAD	
NOTE:	NOT TO SCALE	
	OUTDOOR AIR INTAKE	
OAI	OUTER DIAMETER	
OAI OD	OUTER DIAMETER OPEN ENDED DUCT	
OAI	OUTER DIAMETER OPEN ENDED DUCT PLUMBING CONTRACTOR	
OAI OD OED	OPEN ENDED DUCT	
OAI OD OED 'P'	OPEN ENDED DUCT PLUMBING CONTRACTOR	
OAI OD OED 'P' PD	OPEN ENDED DUCT PLUMBING CONTRACTOR PRESSURE DROP	
OAI OD OED 'P' PD PSIG	OPEN ENDED DUCT PLUMBING CONTRACTOR PRESSURE DROP LBS / SQUARE INCH (GAUGE PRESSURE)	
OAI OD OED 'P' PD PSIG RA	OPEN ENDED DUCT PLUMBING CONTRACTOR PRESSURE DROP LBS / SQUARE INCH (GAUGE PRESSURE) RETURN AIR	
OAI OD OED 'P' PD PSIG RA RD	OPEN ENDED DUCT PLUMBING CONTRACTOR PRESSURE DROP LBS / SQUARE INCH (GAUGE PRESSURE) RETURN AIR ROOF DRAIN	
OAI OD OED 'P' PD PSIG RA RD RPM	OPEN ENDED DUCT PLUMBING CONTRACTOR PRESSURE DROP LBS / SQUARE INCH (GAUGE PRESSURE) RETURN AIR ROOF DRAIN REVOLUTIONS PER MINUTE	
OAI OD OED 'P' PD PSIG RA RD RPM RPZ	OPEN ENDED DUCT PLUMBING CONTRACTOR PRESSURE DROP LBS / SQUARE INCH (GAUGE PRESSURE) RETURN AIR ROOF DRAIN REVOLUTIONS PER MINUTE REDUCED PRESSURE ZONE	
OAI OD OED 'P' PD PSIG RA RD RPM RPZ SA	OPEN ENDED DUCT PLUMBING CONTRACTOR PRESSURE DROP LBS / SQUARE INCH (GAUGE PRESSURE) RETURN AIR ROOF DRAIN REVOLUTIONS PER MINUTE REDUCED PRESSURE ZONE SUPPLY AIR SUPPLY AIR TEMPERATURE	
OAI OD OED 'P' PD PSIG RA RD RPM RPZ SA SAT	OPEN ENDED DUCT PLUMBING CONTRACTOR PRESSURE DROP LBS / SQUARE INCH (GAUGE PRESSURE) RETURN AIR ROOF DRAIN REVOLUTIONS PER MINUTE REDUCED PRESSURE ZONE SUPPLY AIR SUPPLY AIR TEMPERATURE	
OAI OD OED 'P' PD PSIG RA RD RPM RPZ SA SAT SEER	OPEN ENDED DUCT PLUMBING CONTRACTOR PRESSURE DROP LBS / SQUARE INCH (GAUGE PRESSURE) RETURN AIR ROOF DRAIN REVOLUTIONS PER MINUTE REDUCED PRESSURE ZONE SUPPLY AIR SUPPLY AIR TEMPERATURE SEASONAL ENERGY EFFICIENCY RATING	
OAI OD OED 'P' PD PSIG RA RD RPM RPZ SA SAT SEER TEMP	OPEN ENDED DUCT PLUMBING CONTRACTOR PRESSURE DROP LBS / SQUARE INCH (GAUGE PRESSURE) RETURN AIR ROOF DRAIN REVOLUTIONS PER MINUTE REDUCED PRESSURE ZONE SUPPLY AIR SUPPLY AIR TEMPERATURE SEASONAL ENERGY EFFICIENCY RATING TEMPERATURE TRANSFER GRILLE TYPICAL	
OAI OD OED 'P' PD PSIG RA RD RPM RPZ SA SAT SEER TEMP TG TYP VFD	OPEN ENDED DUCT PLUMBING CONTRACTOR PRESSURE DROP LBS / SQUARE INCH (GAUGE PRESSURE) RETURN AIR ROOF DRAIN REVOLUTIONS PER MINUTE REDUCED PRESSURE ZONE SUPPLY AIR SUPPLY AIR TEMPERATURE SEASONAL ENERGY EFFICIENCY RATING TEMPERATURE TRANSFER GRILLE TYPICAL VARIABLE FREQUENCY DRIVE	
OAI OD OED 'P' PD PSIG RA RD RPM RPZ SA SAT SEER TEMP TG TYP	OPEN ENDED DUCT PLUMBING CONTRACTOR PRESSURE DROP LBS / SQUARE INCH (GAUGE PRESSURE) RETURN AIR ROOF DRAIN REVOLUTIONS PER MINUTE REDUCED PRESSURE ZONE SUPPLY AIR SUPPLY AIR TEMPERATURE SEASONAL ENERGY EFFICIENCY RATING TEMPERATURE TRANSFER GRILLE TYPICAL	

DUCTWORK LEGEND		
SYMBOL	ABBREV	DESCRIPTION
		DUCTWORK BRANCH CONNECTION
	VD	VOLUME DAMPER
	CD	ROUND FACE SUPPLY DIFFUSER
	SEE AIR DEVICE SCHEDULE	SIDEWALL SUPPLY, RETURN OR EXHAUST GRILLE/REGISTER
[¤]	SEE AIR DEVICE SCHEDULE	SQUARE FACE SUPPLY DIFFUSER
K J	SEE AIR DEVICE SCHEDULE	BOTTOM RETURN OR EXHAUST GRILLE/REGISTER
	FC	FLEXIBLE CONNECTION
		TURNING VANES
M		RECTANGULAR TO ROUND TRANSITION
	AL	ACOUSTICAL LINING
		END CAP
	SEE AIR DEVICE SCHEDULE	SUPPLY DIFFUSER WITH DIRECTIONAL FLOW (SOLID HATCH INDICATES BLANK OFF PANEL)
		SUPPLY DUCT DROP (TURN DOWN)
		RETURN/EXHAUST DUCT DROP (TURN DOWN)
		SUPPLY DUCT RISE
		RETURN/EXHAUST DUCT RISE
DSD 🗀——	DSD	DUCT SMOKE DETECTOR
M	MD	MOTORIZED DAMPER WITH ACTUATOR
OR OR	AD	ACCESS DOOR
	FD/AD	FIRE DAMPER WITH ACCESS DOOR
	FSD/AD	FIRE SMOKE DAMPER WITH ACCESS DOOR
		FAN
'///// ,		WORK TO BE REMOVED
•		POINT OF DISCONNECTION FROM EXISTING
•		POINT OF CONNECTION TO EXISTING
CONTROL S LEGEND		

CONTROLS LEGEND			
SYMBOL	ABBREV	DESCRIPTION	
©		CARBON MONOXIDE SENSOR	
T		THERMOSTAT	
<u>s</u>		DIGITAL TEMPERATURE SENSOR	
H		HUMIDITY SENSOR	
<u>©2</u>		CARBON DIOXIDE SENSOR	
P		PRESSURE SENSOR	

SYMBOL	ABBREV	DESCRIPTION
		NEW WORK
C— O—		PIPING DOWN/ PIPING UP
<u>–</u> [BALL VALVE WITH HOSE END CONNECTION
<u> </u>	TH	THERMOMETER
→ ⊢	U	UNION
	FPC	FLEXIBLE PIPE CONNECTION
		DIRECTION OF FLOW
一	PSR	PRESSURE SAFETY AND RELIEF VALVE
_ <u>\$</u> _	PRV	PRESSURE REDUCING VALVE
_ 	BV	BALL VALVE
	BA	BALANCING VALVE
l ————————————————————————————————————	BFV	BUTTERFLY VALVE
_		TEMPERATURE SENSOR WITH THERMOWELL
\longrightarrow	GA	GATE VALVE
	GB	GLOBE VALVE
\Diamond	AV	AUTOMATIC AIR VENT
	CV	2-WAY ELECTRONIC CONTROL VALVE
— —— —	CV	3-WAY ELECTRONIC CONTROL VALVE
_ _	CV	2-WAY PNEUMATIC CONTROL VALVE
— \$ —	CV	3-WAY PNEUMATIC CONTROL VALVE
	STR	STRAINER WITH BLOW OFF VALVE WITH HOSE END CONNECTION
₩ >	FD	FLOOR DRAIN
S		AIR SEPARATOR
——⊗ ^{F&T}		STEAM TRAPS (INDICATE TYPE)
- NN	СН	CHECK VALVE
<u>Q</u>	PG	PRESSURE GAUGE WITH GAUGE COCK
─ D─	RED	REDUCER
ı	СО	CLEANOUT END CAP
		PIPE GUIDE
X		PIPE ANCHOR
		CAPPED PIPE
		PUMP
'///// ,		WORK TO BE REMOVED
		POINT OF DISCONNECTION FROM EXISTING
•		POINT OF CONNECTION TO EXISTING
<u> </u>	TDV	TRIPLE DUTY VALVE

SYSTEM COMMISSIONING NOTES (NYS):

- COMMISSION ALL NEW BUILDING MECHANICAL SYSTEMS IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2020 NEW YORK STATE (NYS) ENERGY CONSERVATION CODE (ECC) SECTION C408. COMMISSIONING SHALL BE PERFORMED BY AN APPROVED THIRD-PARTY COMMISSIONING AGENCY HIRED BY THE OWNER. REFER TO SPECIFICATION SECTION 230800 - COMMISSIONING OF MECHANICAL SYSTEMS FOR MORE INFORMATION.
- 2. PROVIDE DRAWINGS, OPERATION & MAINTENANCE (O&M) MANUALS, AND SYSTEM BALANCING REPORTS TO BUILDING OWNER OR OWNER'S AUTHORIZED AGENT WITHIN 90 DAYS OF THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY OR LETTER OF COMPLETION IN ACCORDANCE WITH THE 2020 NYS ECC SECTION C408.2.5.
- 3. PROVIDE FINAL COMMISSIONING REPORT TO THE BUILDING OWNER OR OWNER'S AUTHORIZED AGENT WITHIN 90 DAYS OF THE RECEIPT OF THE CERTIFICATE OF OCCUPANCY OR LETTER OF COMPLETION IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2020 NYS ECC SECTION C408.2.5.4.

GENERAL NOTES

- 1. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
- 2. THE CONTRACTOR, BY PRESENTING THEIR BID FOR THE WORK, REPRESENTS THAT HE/SHE HAS INSPECTED THE SITE AND IS COMPLETELY FAMILIAR WITH THE SCOPE OF WORK AND ALL FIELD CONDITIONS RELATED TO, AND AFFECTING THE WORK AND ITS PERFORMANCE. EXCEPTIONS AFFECTING THE WORK AND ITS PERFORMANCE, OR CONFLICTS BETWEEN FIELD CONDITIONS, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE SUBMISSION OF BIDS.
- 3. PERFORM ALL WORK IN ACCORDANCE WITH THE PLUMBING CODE, FIRE CODE, MECHANICAL CODE, ENERGY CONSERVATION CONSTRUCTION CODE, AND FUEL GAS CODE OF NEW YORK STATE AND THE REQUIREMENTS OF THE LOCAL AUTHORITIES HAVING JURISDICTION.
- 4. COMPLY WITH THE NATIONAL ELECTRIC CODE AND THE REQUIREMENTS OF DIVISION 26 FOR ALL ELECTRICAL INSTALLATIONS.
- 5. FIRE STOP ALL OPENINGS IN FIRE RATED CONSTRUCTION FOR PIPING, DUCTWORK, CONDUIT, ETC. PROVIDE FIRE DAMPERS AND ACCESS DOORS IN ALL OPENINGS IN FIRE RATED FLOORS, PARTITIONS, AND WALLS FOR DUCTWORK AS PER THE MECHANICAL CODE OF NEW YORK STATE. (SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FIRE RATED CONSTRUCTION.)
- 6. DO NOT SCALE DRAWINGS. DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE. COORDINATE CONTRACT DOCUMENTS, PROJECT REQUIREMENTS, WORK OF OTHERS, AND EQUIPMENT AND MATERIALS PURCHASED WITH FIELD DIMENSIONS. INSTALL ALL EQUIPMENT AS PER MANUFACTURER'S REQUIREMENTS TO PROVIDE PROPER CLEARANCE FOR INSTALLATION, OPERATION, AND MAINTENANCE. CONTRACTOR'S INTENDED MEANS AND METHODS OF INSTALLATION AND CONTRACTOR'S FABRICATED ITEMS SHALL ENSURE A PROPER "FIT" AND INSTALLATION. BRING ANY CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER DURING THE SUBMITTAL PHASE FOR RESOLUTION PRIOR TO PURCHASING ANY EQUIPMENT.
- 7. MAINTAIN MAXIMUM HEADROOM AND SPACE CONDITIONS AT ALL POINTS. WHERE HEADROOM AND SPACE CONDITIONS APPEAR INADEQUATE, NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH INSTALLATION. MAINTAIN A MINIMUM OF 6'-8" CLEARANCE FROM FINISHED FLOOR TO UNDERSIDE OF PIPES, DUCTS, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.
- 8. FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION. MAKE MODIFICATIONS IN THE LAYOUT AS NEEDED TO PREVENT CONFLICT
- 9. PROVIDE PRODUCTS OF ONE MANUFACTURER WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF MATERIAL OR EQUIPMENT IS REQUIRED.
- 10. INSTALL ALL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS. REFER TO DETAILS FOR ADDITIONAL PIPING AND EQUIPMENT INSTALLATION REQUIREMENTS.
- 11. LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE OR DUCT UP- AND DOWNSTREAM AS RECOMMENDED BY THE MANUFACTURER TO ENSURE MANUFACTURER CERTIFIED ACCURACY.

WITH WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF THE WORK. OBTAIN THE APPROVAL OF THE ARCHITECT/ENGINEER FOR MODIFICATIONS.

- 12. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL PIPING AND DUCT TRANSITIONS REQUIRED FOR FINAL CONNECTIONS TO EQUIPMENT.
- 13. COORDINATE LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS WITH ALL OTHER TRADES. COORDINATE ALL PIPING AND EQUIPMENT SUPPORTED FROM STRUCTURE WITH GENERAL CONSTRUCTION WORK.
- 14. COORDINATE INSTALLATION OF SUPPLY AND RETURN GRILLES WITH INSTALLATION OF FINISHED CEILINGS.
- 15. COMPLETE ALL PRESSURE TESTS BEFORE ANY MECHANICAL EQUIPMENT, DUCTWORK, OR PIPING INSULATION IS APPLIED.
- 16. TESTING, ADJUSTING, AND BALANCING AGENCY SHALL BE A MEMBER OF THE ASSOCIATED AIR BALANCE COUNCIL (AABC) OR THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB). PERFORM ALL TESTING, ADJUSTING, AND BALANCING IN ACCORDANCE WITH THE SPECIFICATIONS.
- 17. MAKE ALL ATTACHMENTS TO JOISTS, TRUSSES, OR JOIST GIRDERS AT PANEL POINTS. PROVIDE BEAM CLAMPS MEETING MSS STANDARDS. THE USE OF C-CLAMPS IS NOT
- 18. PROVIDE CONCRETE PADS A MINIMUM OF 6 INCHES HIGH FOR ALL FLOOR MOUNTED EQUIPMENT. EXTEND PAD 4 INCHES BEYOND THE EQUIPMENT ON ALL SIDES.
- 19. INTERNALLY LINE ALL SUPPLY AND RETURN DUCTWORK WITHIN 20 FEET UPSTREAM AND DOWNSTREAM OF FANS WITH 1" THICK INSULATION. INTERNALLY LINED DUCTWORK MEETING THIS REQUIREMENT SHALL ALSO BE PROVIDED WITH EXTERNALLY APPLIED INSULATION AS REQUIRED BY THE SPECIFICATIONS. SEE SPECIFICATION SECTION 230719 FOR ADDITIONAL REQUIREMENTS.
- 20. PROVIDE TRAPPED DRAIN PIPING FROM DRAIN PANS OF ALL COOLING COILS, FANS, AND OTHER ACTIVE DRAINS EXPOSED TO SYSTEM AIR STREAM. PROVIDE TRAP AT CONNECTION, WATER SEAL DEPTH 1 INCH GREATER THAN UNIT OPERATING PRESSURE. DIRECT DRAINS TO NEAREST FLOOR DRAIN, MOP SINK, OR OTHER LOCATION APPROVED BY THE ARCHITECT/ENGINEER.
- 21. INSTALL PIPING, DUCTWORK, AND CONDUIT CONCEALED IN AREAS HAVING HUNG CEILINGS AND/OR FURRED SPACES UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

WORK IN EXISTING AREAS

- 1. EXISTING CONDITIONS, INCLUDING EQUIPMENT, DUCT AND PIPE SIZES AND LOCATIONS, INDICATED ON THE DRAWINGS ARE DIAGRAMMATIC. CONFIRM ALL EXISTING CONDITIONS PRIOR TO PROCEEDING WITH THE WORK.
- 2. CUT AND ROUGH PATCH EXISTING CONSTRUCTION AS REQUIRED FOR THE PERFORMANCE OF THE WORK. FINISH PATCHING AND FLASHING REQUIREMENTS ARE SHOWN ON THE ARCHITECTURAL DRAWINGS. PERFORM ALL CUTTING AND PATCHING WORK IN A MANNER SUCH THAT ANY EXISTING WARRANTEES/GUARANTEES ARE NOT VOIDED. USE QUALIFIED PERSONNEL IN PERFORMANCE OF THE WORK.

CONTRACT 'M' SCOPE NOTES

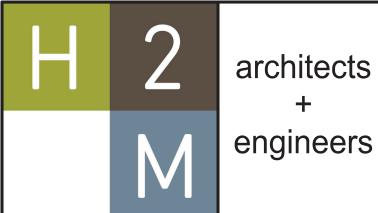
- 1. PROVIDE ALL LOUVERS FOR INSTALLATION BY CONTRACT 'G'. SUBMIT LOUVER COLOR AND CONFIGURATION TO THE ARCHITECT/ENGINEER FOR APPROVAL.
- 2. INSTALL SMOKE DETECTORS IN DUCTWORK FOR AIR HANDLING UNITS RATED AT 2,000 CFM OR GREATER AND AT FSD/SD. SMOKE DETECTOR SUPPLY AND WIRING IS PART OF CONTRACT 'E'.
- 3. FURNISH AND INSTALL ALL NECESSARY CONTROL WIRING, CONDUIT, AND ACCESSORIES AS REQUIRED TO PROVIDE FULLY FUNCTIONING SYSTEMS AND SEQUENCES OF
- 4. FURNISH ALL LINTELS FOR DUCT AND PIPE PENETRATIONS IN MASONRY WALLS FOR INSTALLATION BY CONTRACT 'G'.
- 5. FURNISH ALL SLEEVES FOR PIPE AND CONDUIT FLOOR, WALL, PARTITION, AND ROOF PENETRATIONS FOR INSTALLATION BY CONTRACT 'G'.
- 6. FURNISH ALL CURBS FOR ALL ROOF MOUNTED EQUIPMENT AND DUCT PENETRATIONS FOR INSTALLATION BY CONTRACT 'G'.
- 7. REMOVE CHASE ENCLOSURE COVER WHEN PERFORMING WORK IN ANY CHASE, AND REINSTALL THE CHASE ENCLOSURE COVER WHEN WORK IS COMPLETE.
- 8. PERFORM ALL CUTTING AND ROUGH PATCHING AS REQUIRED IN THE EXECUTION OF THE WORK. FINISH PATCHING AND FLASHING IS PART OF CONTRACT 'G'.
- 9. ALL NEW EQUIPMENT TO BE INTEGRATED WITH EXISTING SCHNEIDER ELECTRIC EBO BMS.

LEGENDS/ABBREVIATIONS NOTES

1. ABBREVIATIONS AND SYMBOLS ON THIS SHEET DO NOT DEFINE THE SCOPE OF WORK.

ADD ALTERNATE 1

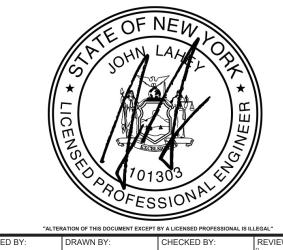
- 1. PROVIDE PRICING FOR REMOVAL OF PNEUMATIC RADIATOR CONTROL VALVES AND ASSOCIATED THERMOSTATS. SEE MD DRAWINGS FOR FURTHER INFORMATION.
- PROVIDE PRICING FOR FURNISH AND INSTALL OF NEW DDC RADIATOR CONTROL VALVES (CV-1) SEE DRAWINGS FOR FURTHER INFORMATION.
- PROVIDE NEW TWO STAGE THERMOSTATS IN PLACE OF NEW SINGLE STAGE THERMOSTATS ON PLAN. STAGE
 ONE: HEAT PUMP HEATING, STAGE TWO: HOT WATER RADIATOR HEATING. INTEGRATE WITH EXISTING BUILDING
 MANAGEMENT SYSTEM.



2700 Westchester Ave., Suite 415 Purchase, NY 10577 914.358.5623 • www.h2m.com

ULTANTS:		

MARK	DATE	DESCRIPTION
	10-16-23	FINAL BID DOCUMENT



SIGNED BY:

MJV

KCM

MJV

QAQC

DJECT No.:

WPSD 2205

DATE:

OCTOBER 2023

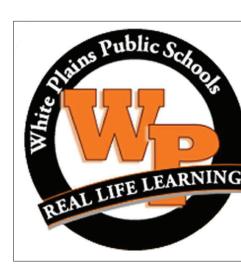
REVIEWED BY:

QAQC

SCALE:

White Plains City School District

AC and Ventilation Upgrades at Mamaroneck Elementary School



7 Nosband Ave. White Plains, NY 10605

SED PROJECT CONTROL NO. 66-22-00-01-0-010-017

CONTRACT H
HEATING VENTILATION AND AIR
CONDITIONING

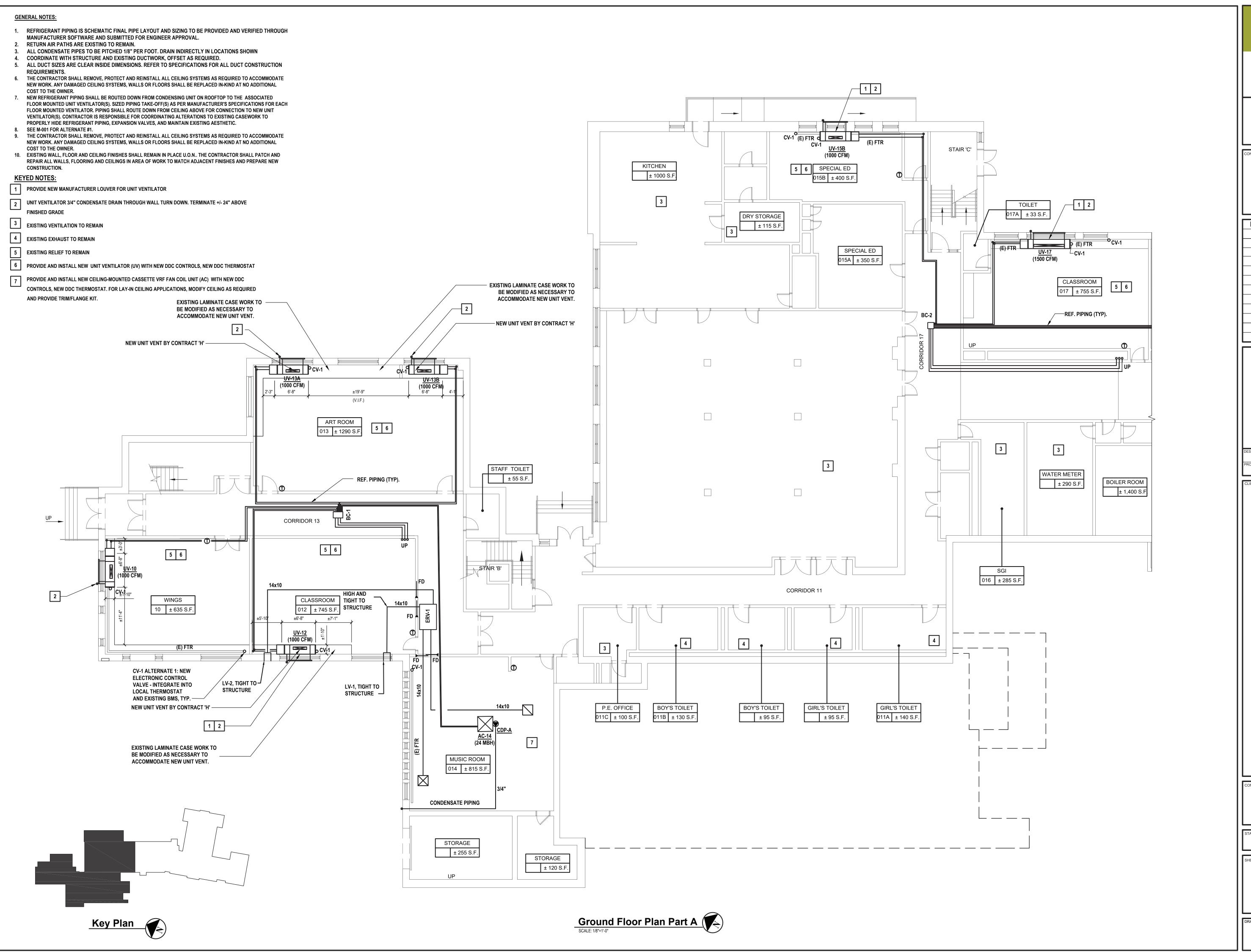
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SHEET TITLE

HVAC LEGENDS, SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES

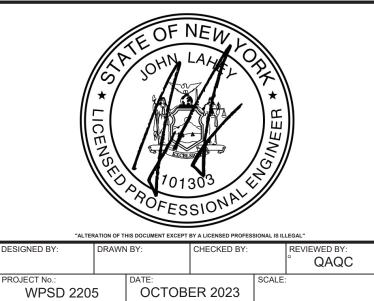
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M001.00



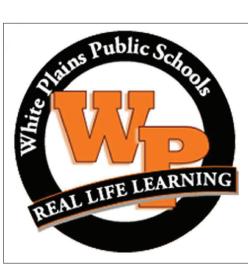


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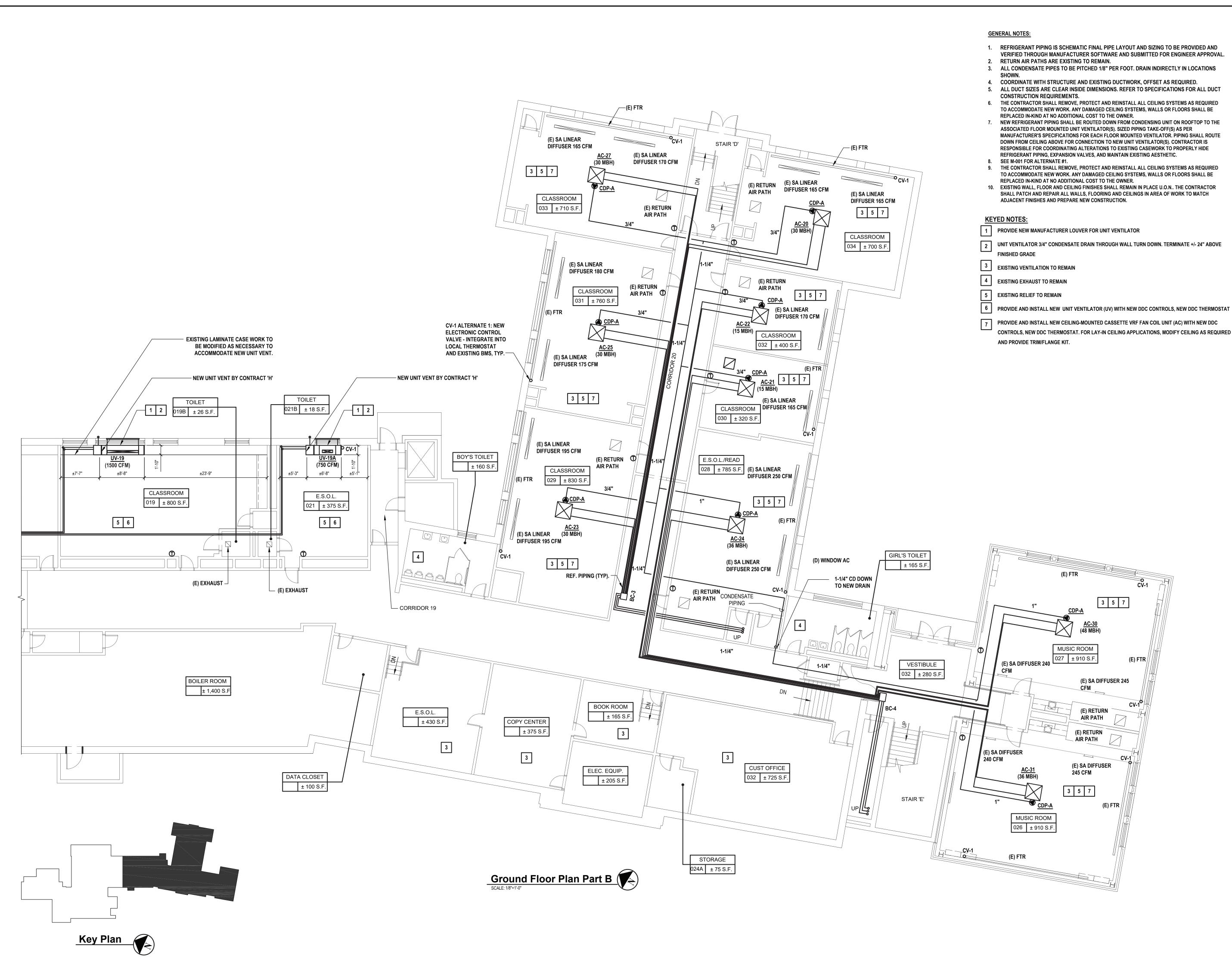
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CONTRACT H HEATING VENTILATION AND AIR CONDITIONING

FINAL BID DOCUMENT

MECHANICAL GROUND FLOOR PLAN PART A

M100.00



- CONTROLS, NEW DDC THERMOSTAT. FOR LAY-IN CEILING APPLICATIONS, MODIFY CEILING AS REQUIRED



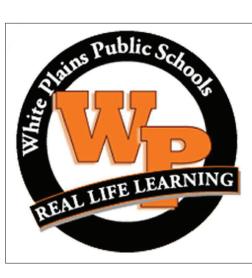
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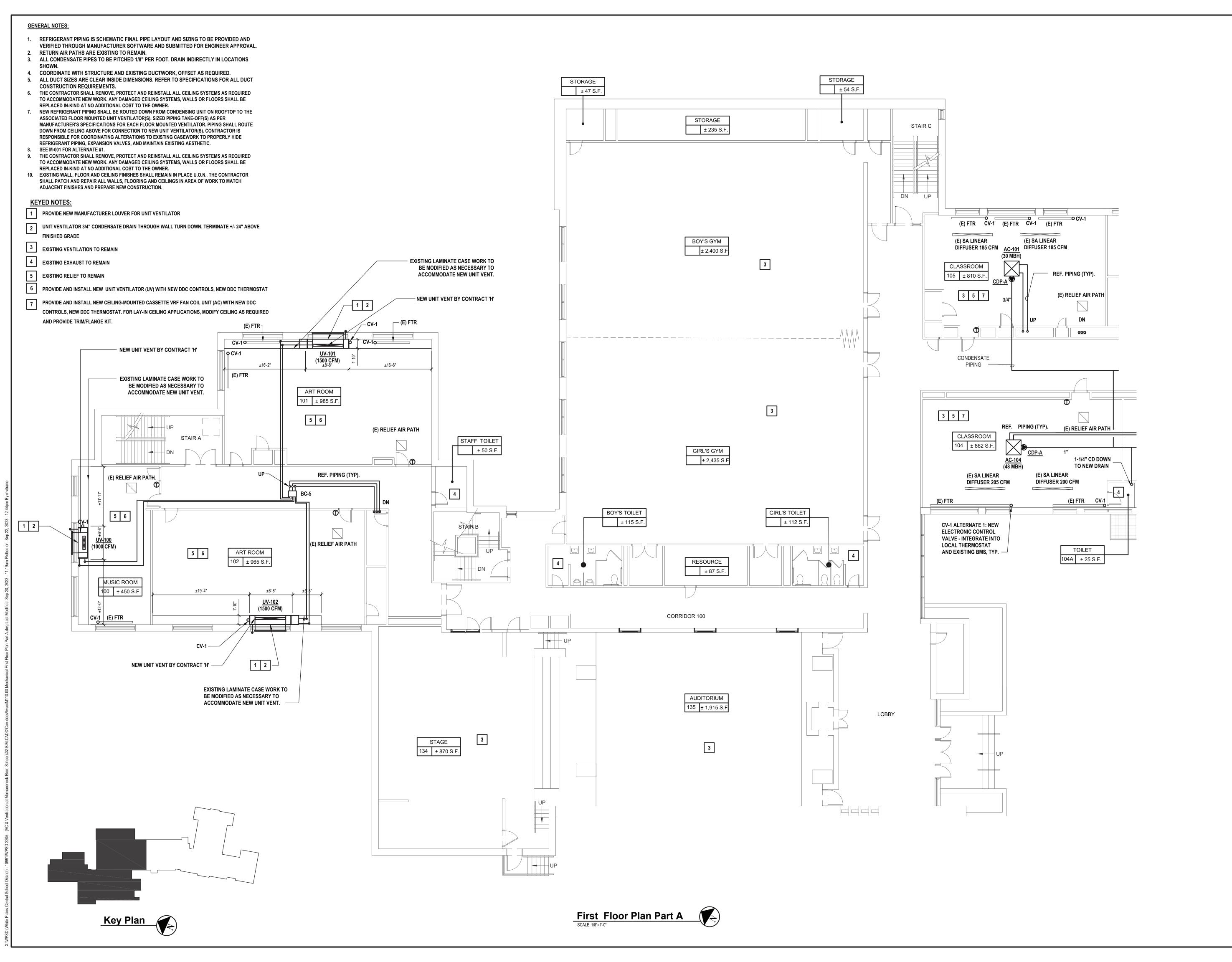
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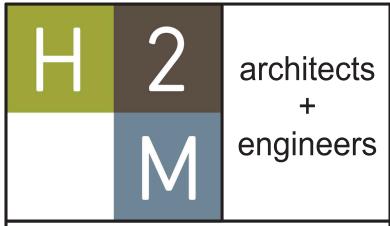
CONTRACT H HEATING VENTILATION AND AIR CONDITIONING

FINAL BID DOCUMENT

MECHANICAL GROUND FLOOR PLAN PART B

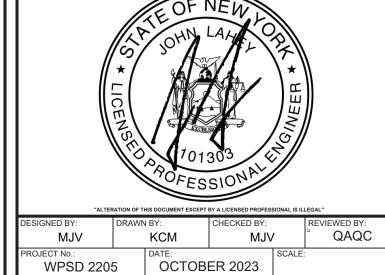
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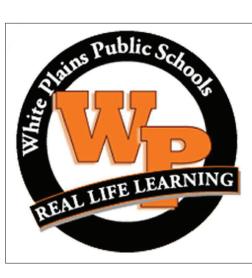
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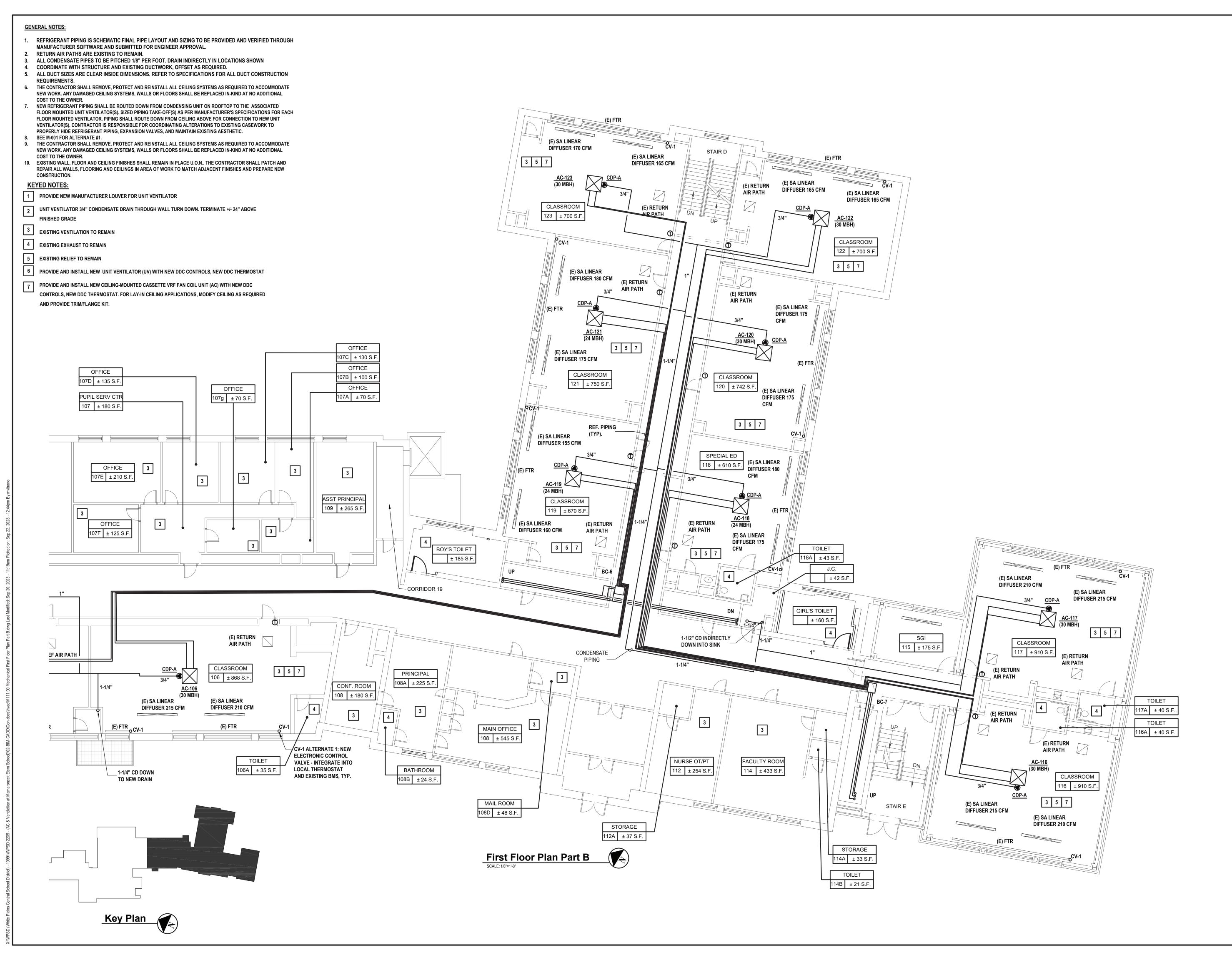
CONTRACT H
HEATING VENTILATION AND AIR
CONDITIONING

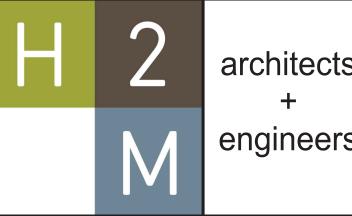
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SHEET T

MECHANICAL FIRST FLOOR PLAN PART A

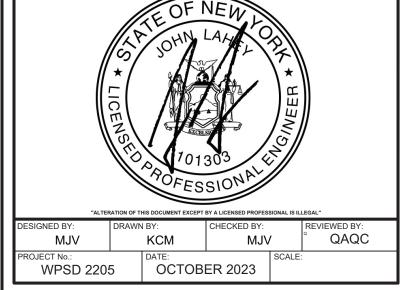
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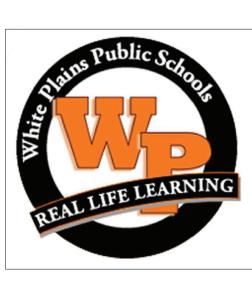
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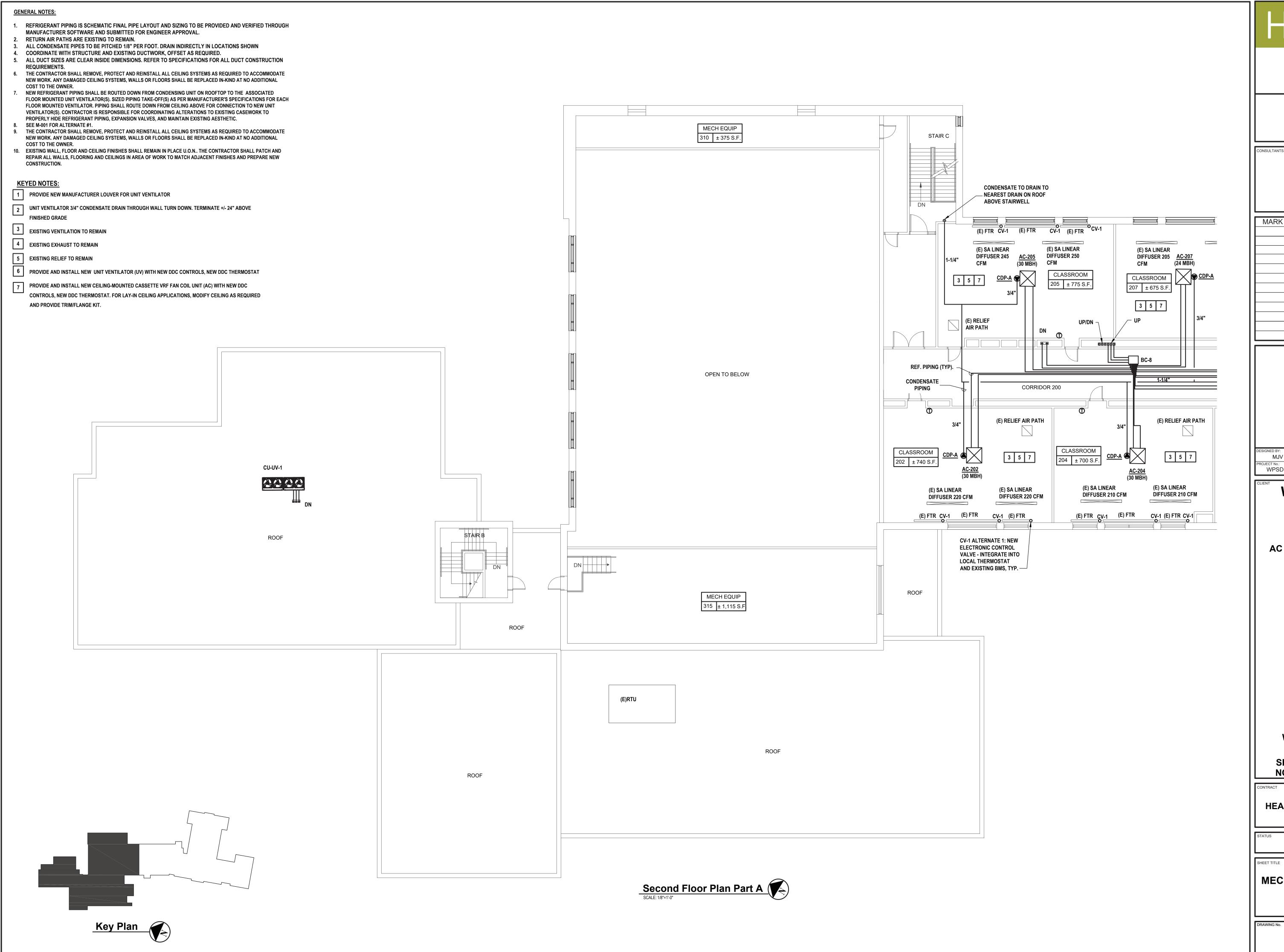
CONTRACT H
HEATING VENTILATION AND AIR
CONDITIONING

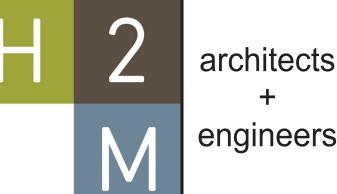
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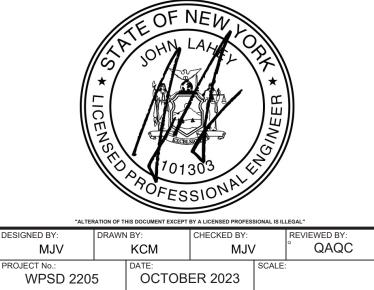
MECHANICAL FIRST FLOOR PLAN PART B

M111.00



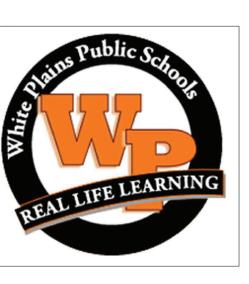


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AC and Ventilation Upgrades at Mamaroneck **Elementary School**



7 Nosband Ave. White Plains, NY 10605

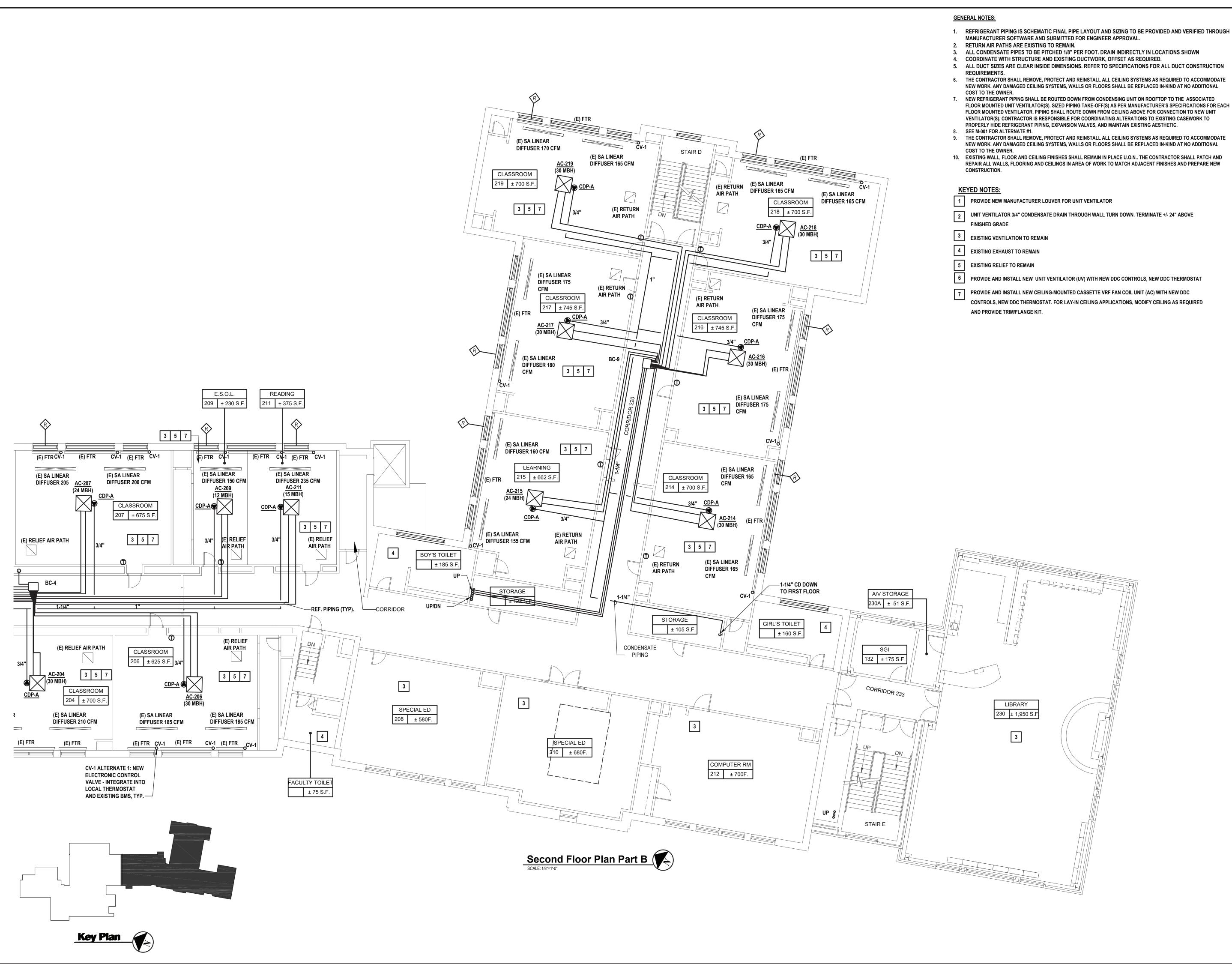
SED PROJECT CONTROL NO. 66-22-00-01-0-010-017

CONTRACT H HEATING VENTILATION AND AIR CONDITIONING

FINAL BID DOCUMENT

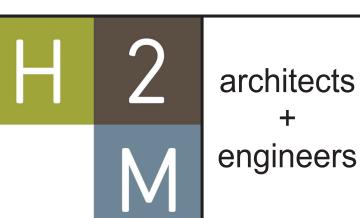
MECHANICAL SECOND FLOOR PART A

M120.00

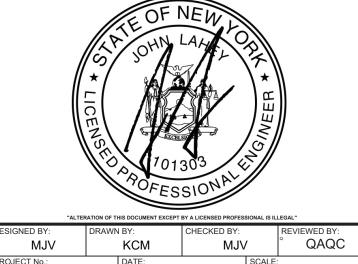


- 6. THE CONTRACTOR SHALL REMOVE, PROTECT AND REINSTALL ALL CEILING SYSTEMS AS REQUIRED TO ACCOMMODATE
- 7. NEW REFRIGERANT PIPING SHALL BE ROUTED DOWN FROM CONDENSING UNIT ON ROOFTOP TO THE ASSOCIATED FLOOR MOUNTED VENTILATOR. PIPING SHALL ROUTE DOWN FROM CEILING ABOVE FOR CONNECTION TO NEW UNIT
- VENTILATOR(S). CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALTERATIONS TO EXISTING CASEWORK TO
- NEW WORK. ANY DAMAGED CEILING SYSTEMS, WALLS OR FLOORS SHALL BE REPLACED IN-KIND AT NO ADDITIONAL
- 10. EXISTING WALL, FLOOR AND CEILING FINISHES SHALL REMAIN IN PLACE U.O.N.. THE CONTRACTOR SHALL PATCH AND REPAIR ALL WALLS, FLOORING AND CEILINGS IN AREA OF WORK TO MATCH ADJACENT FINISHES AND PREPARE NEW

- CONTROLS, NEW DDC THERMOSTAT. FOR LAY-IN CEILING APPLICATIONS, MODIFY CEILING AS REQUIRED



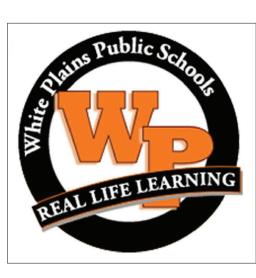
MARK	DATE	DESCRIPTION		
	10-16-23	FINAL BID DOCUMENT		



OCTOBER 2023 WPSD 2205 **White Plains City**

School District

AC and Ventilation Upgrades at Mamaroneck **Elementary School**



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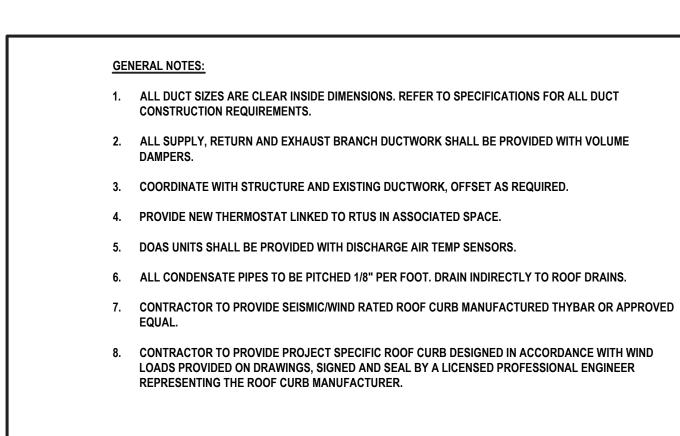
SED PROJECT CONTROL NO. 66-22-00-01-0-010-017

CONTRACT H HEATING VENTILATION AND AIR CONDITIONING

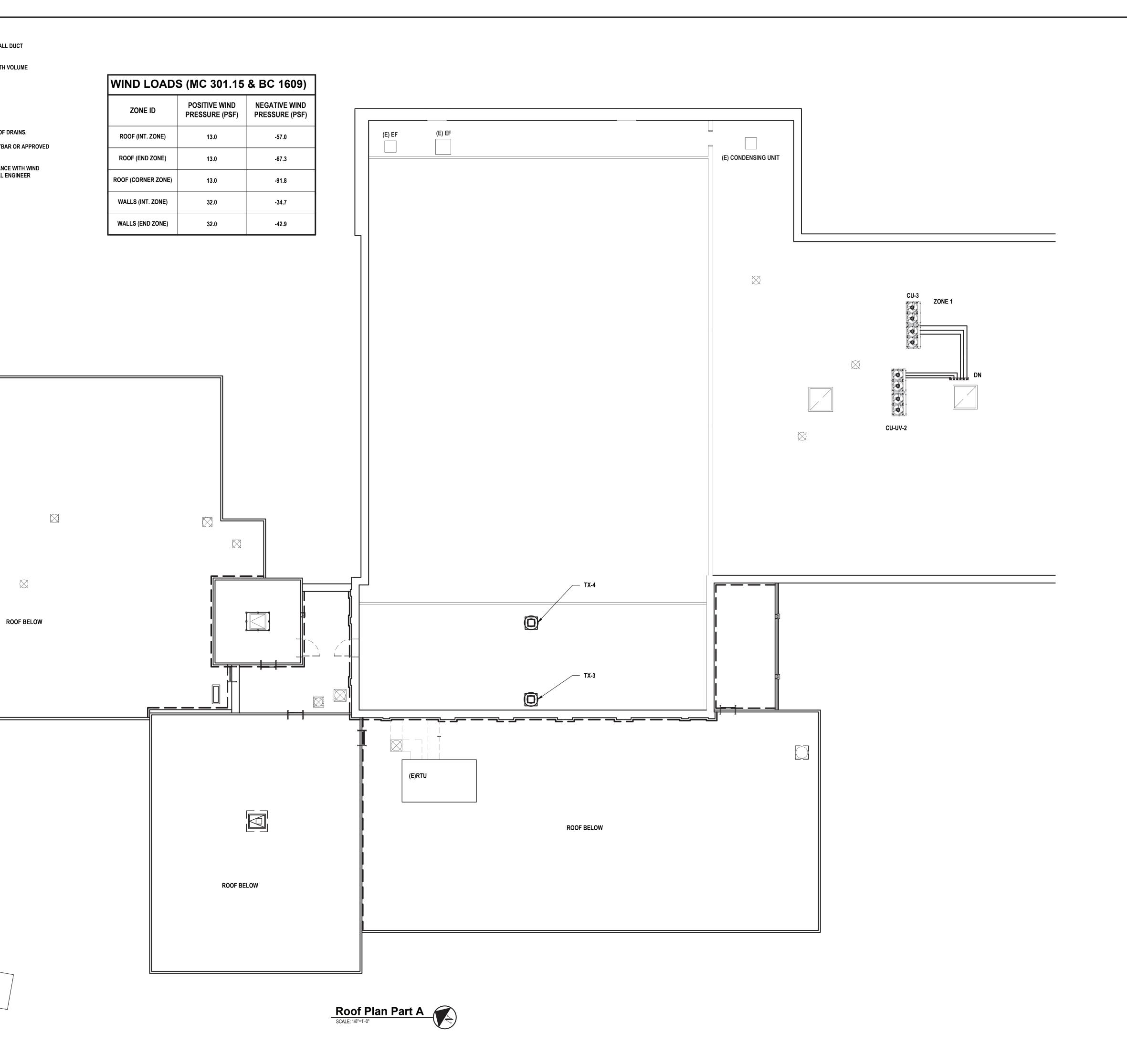
FINAL BID DOCUMENT

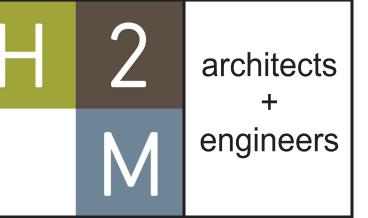
MECHANICAL SECOND FLOOR **PLAN PART B**

M121.00



Key Plan

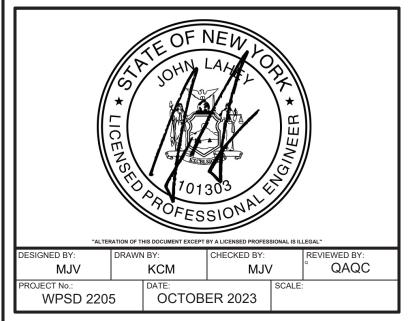




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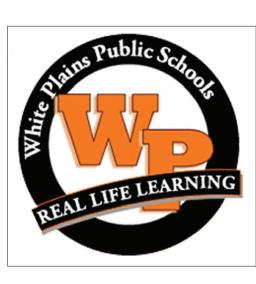
ONSULTANTS:

MARK	DATE	DESCRIPTION
	10-16-23	FINAL BID DOCUMENT



White Plains City School District

AC and Ventilation Upgrades at Mamaroneck Elementary School



7 Nosband Ave. White Plains, NY 10605

SED PROJECT CONTROL NO. 66-22-00-01-0-010-017

CONTRACT H
HEATING VENTILATION AND AIR
CONDITIONING

FINAL BID DOCUMENT

SHEET T

MECHANICAL ROOF PLAN PART A

M140.00