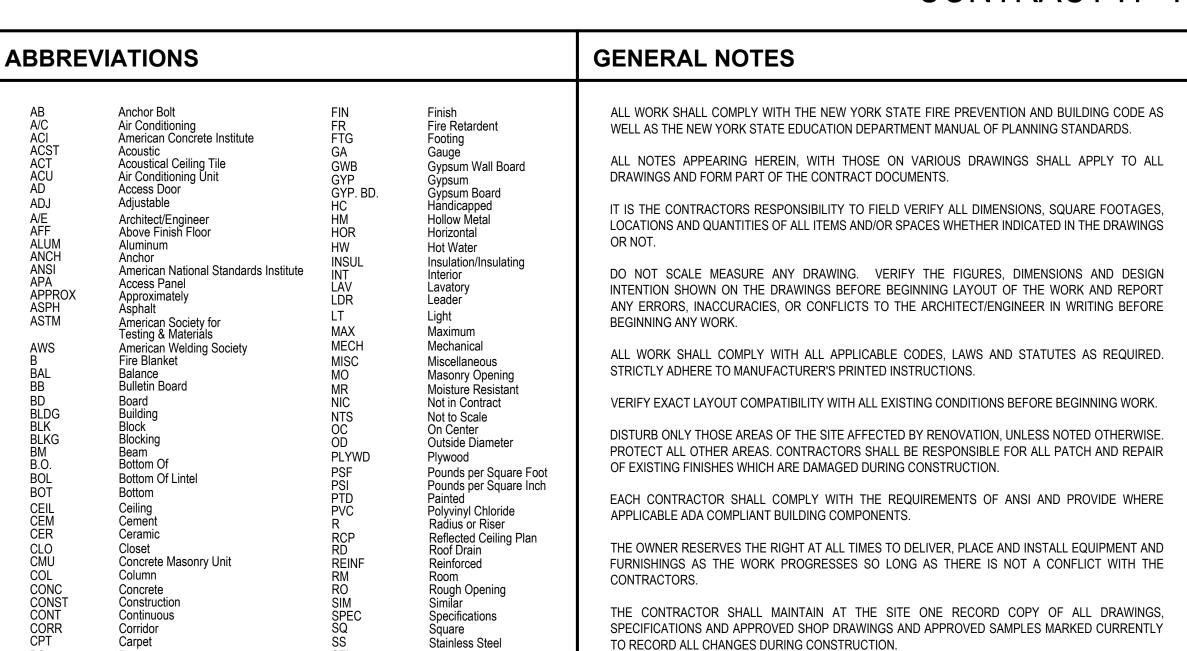
WHITE PLAINS CITY SCHOOL DISTRICT

AC AND VENTILATION UPGRADES AT

MAMARONECK AVENUE ELEMENTARY SCHOOL 7 NOSBAND AVENUE, WHITE PLAINS, NEW YORK 10605

SED PROJECT CONTROL NUMBER 66-22 - 00 -01 - 0 - 010 - 017

CONTRACT E - ELECTRICAL CONSTRUCTION WORK CONTRACT H - HEATING VENTILATION AND AIR CONDITIONING



SYMBOLS LEGEND

SECTION MARK

DETAIL SYMBOL

ELEVATION KEY

REFERENCE

ELEVATION LINE

PARTITION TYPE

REVISION

INTERIOR ELEVATION

Temperature

Vapor Barrier

Vent Thru Roof

Water Closet

Water Heater

Vinyl Composition Tile

Terrazzo

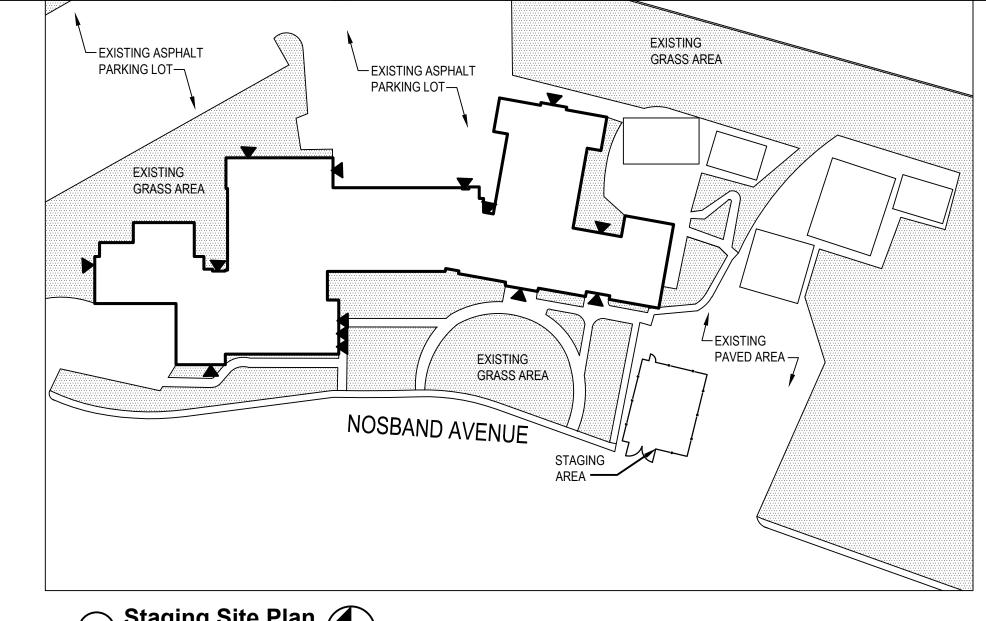
Typical

Vertical

Thick

Utility

DRAWING LIST G.000.00 GENERAL NOTES, MAPS, DRAWING LIST & LEGENDS G100.00 EXISTING GROUND FLOOR PLAN G102.00 EXISTING SECOND FLOOR PLAN M140.00 MECHANICAL ROOF PLAN PART / MD140.00 MECHANICAL ROOF PLAN PART A **ELECTRICAL DRAWINGS** E001.00 ELECTRICAL LEGENDS ES100.00 ELECTRICAL SITE PLANS ED100.00 ELECTRICAL PARTIAL BASEMENT DEMOLITION PLAN A ED101.00 ELECTRICAL PARTIAL BASEMENT DEMOLITION PLAN B ED110.00 ELECTRICAL PARTIAL FIRST FLOOR DEMOLITION PLAN A ED111 00 FLECTRICAL PARTIAL FIRST FLOOR DEMOLITION PLAN B ED120.00 ELECTRICAL PARTIAL SECOND FLOOR DEMOLITION PLAN A ED121.00 ELECTRICAL PARTIAL SECOND FLOOR DEMOLITION PLAN B ED130.00 ELECTRICAL PARTIAL ROOF DEMOLITION PLAN A ED131.00 ELECTRICAL PARTIAL ROOF DEMOLITION PLAN B E100.00 ELECTRICAL PARTIAL BASEMENT HVAC POWER PLAN A ELECTRICAL PARTIAL BASEMENT HVAC POWER PLAN B ELECTRICAL PARTIAL FIRST FLOOR HVAC POWER PLAN A E111.00 ELECTRICAL PARTIAL FIRST FLOOR HVAC POWER PLAN B E120.00 ELECTRICAL PARTIAL SECOND FLOOR HVAC POWER PLAN A E121.00 ELECTRICAL PARTIAL SECOND FLOOR HVAC POWER PLAN B E130.00 ELECTRICAL PARTIAL ROOF HVAC POWER PLAN A E131.00 ELECTRICAL PARTIAL ROOF HVAC POWER PLAN B E200.00 ELECTRICAL DETAILS AND SCHEDULE E300.00 ELECTRICAL SINGLE LINE DIAGRAM E400.00 ELECTRICAL PANEL SCHEDULES E500.00 ELECTRICAL SWITCHBOARD ELEVATION





1. POST SIGNS INDICATING CONSTRUCTION AREA AND CONSTRUCTION EMPLOYEE ENTRANCE. SEE SIGN SCHEDULE BELOW.

2. CONSTRUCTION FENCE TO BE 8'-0" HIGH CHAIN LINK FENCE LOCATED A MINIMUM OF 15'-0" FROM ALL WINDOW OPENINGS. ALL GATES ARE TO $^{-4\cdot}$ BE LOCKED AT ALL TIMES, EXCEPT FOR WHEN A WORKER IS IN ATTENDANCE TO PREVENT UNAUTHORIZED ENTRY. SEE LEGEND

UPGRADES IS SCHEDULED TO BE COMPLETED WHEN SCHOOL IS NOT IN SESSION AND THEREFORE WILL NOT HAVE AN IMPACT ON STUDENT ENTRANCE/EXIT EGRESS.

- CONTRACTOR IS TO STAGE ON THE SITE IN SUCH A MANNER AS TO NOT BLOCK OR ENCROACH UPON EXISTING EXITS/ENTRANCES TO BUILDING, AND VEHICLE ACCESS.
- CONTRACTOR SHALL RESTORE ALL STAGING AREAS TO PRE-CONSTRUCTION CONDITION, UPON COMPLETION OF WORK IN THAT AREA.

UNIFORM SAFETY STANDARDS - FOR SCHOOL CONSTRUCTION AND MAINTENANCE PROJECTS

4. "SEPARATION OF CONSTRUCTION AREAS FROM OCCUPIED

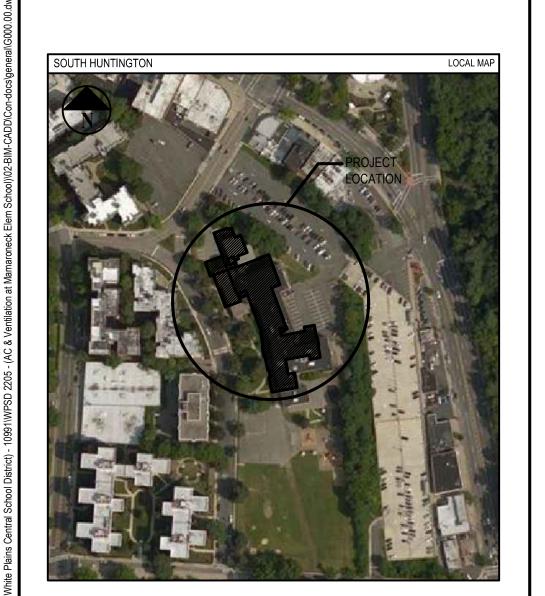
SPACES: CONSTRUCTION AREAS WHICH ARE UNDER THE

CONTROL OF A CONTRACTOR AND THEREFORE NOT OCCUPIED

OCCUPIED AREAS. PROVISIONS SHALL BE MADE TO PREVENT

THE PASSAGE OF DUST AND CONTAMINANTS INTO OCCUPIED

BY DISTRICT STAFF OR STUDENTS SHALL BE SEPARATED FROM



Downspou

Drawing

Elevator

Equipment

Fire Code

Floor Drain

LOCATION MAPS

Existing Exhaust

Electric/Electrical

Electrical Pane

Epoxy Coating

Fresh Air Intake

Each

ALWAYS COMPLY WITH THE MINIMUM REQUIREMENTS NECESSARY TO MAINTAIN A CERTIFICATE OF OCCUPANCY." ROOM DESIGNATION SPECIFIC AREAS HAVE BEEN TESTED AND FOUND NOT TO CONTAIN ASBESTOS AS DESCRIBED IN THE PROJECT

EARTH

BATT INSULATION

RIGID INSULATION

PLYWOOD

WOOD

WOOD BLOCKING

ANY CHANGES TO THE SCOPE OF WORK OR IN THE CONSTRUCTION DETAILS, WHETHER DUE TO

FIELD CONDITIONS OR OMISSION SHALL BE DOCUMENTED BY THE ARCHITECT PRIOR TO EXECUTION.

ANY INCREASE OR DECREASE IN THE CONTRACT PRICE MUST BE APPROVED IN WRITING PRIOR TO

MANUAL. A COPY OF THE REPORT CAN BE VIEWED AT THE CONCRETE DISTRICT OFFICE LOCATED AT 5 HOMESIDE LANE, WHITE PLAINS, NY 10605 AGGREGATE SUB-BASE

> CONSTRUCTION PROJECTS: ALL CONSTRUCTION MATERIALS SHALL BE STORED IN A

(2) SHALL BE MAINTAINED.

"GENERAL SAFETY AND SECURITY STANDARDS FOR

(1) SAFE AND SECURE MANNER. FENCES AROUND CONSTRUCTION SUPPLIES OR DEBRIS

GATES SHALL ALWAYS BE LOCKED UNLESS A WORKER (3) IS IN ATTENDANCE TO PREVENT UNAUTHORIZED ENTRY.

"THE OCCUPIED PORTION OF ANY SCHOOL BUILDING SHALL

DURING EXTERIOR RENOVATION WORK, OVERHEAD (4) PROTECTION SHALL BE PROVIDED FOR ANY SIDEWALKS OR AREAS IMMEDIATELY BENEATH THE WORK SITE OR SUCH AREAS SHALL BE FENCED OFF AND PROVIDED WITH WARNING SIGNS TO PREVENT ENTRY.

WORKERS SHALL BE REQUIRED TO WEAR (5) PHOTO-IDENTIFICATION BADGES AT ALL TIMES FOR IDENTIFICATION AND SECURITY PURPOSES WHILE WORKING AT OCCUPIED SITES."

PARTS OF THE BUILDING. PERIODIC INSPECTION AND REPAIRS OF THE CONTAINMENT BARRIERS MUST BE MADE TO PREVENT EXPOSURE TO DUST OR CONTAMINANTS. GYPSUM BOARD MUST BE USED IN EXIT WAYS OR OTHER AREAS THAT REQUIRE FIRE RATED SEPARATION. HEAVY DUTY PLASTIC SHEETING MAY BE USED ONLY FOR A VAPOR, FINE DUST OR AIR INFILTRATION BARRIER, AND SHALL NOT BE USED TO SEPARATE OCCUPIED SPACES FROM CONSTRUCTION AREAS. (1) A SPECIFIC STAIRWELL AND/OR ELEVATOR SHALL BE ASSIGNED OR CONSTRUCTION WORKER USE DURING WORK HOURS. IN GENERAL, WORKERS MAY NOT USE CORRIDORS,

STAIRS OR ELEVATORS DESIGNATED FOR STUDENTS OR SCHOOL STAFF. WHERE NO STAIRWELL AND OR ELEVATOR IS ASSIGNED, WORKERS MUST ENTER THE CONSTRUCTION SPACES DIRECTLY FROM THE BUILDING EXTERIOR.

(2) LARGE AMOUNTS OF DEBRIS MUST BE REMOVED BY USING ENCLOSED CHUTES OR A SIMILAR SEALED SYSTEM. THERE SHALL BE NO MOVEMENT OF DEBRIS THROUGH HALLS OF OCCUPIED SPACES OF THE BUILDING. NO MATERIAL SHALL BE DROPPED OR THROWN OUTSIDE THE WALLS OF THE BUILDING.

(3) ALL OCCUPIED PARTS OF THE BUILDING AFFECTED BY RENOVATION ACTIVITY SHALL BE CLEANED AT THE CLOSE OF EACH WORKDAY. SCHOOL BUILDINGS OCCUPIED DURING A CONSTRUCTION PROJECT SHALL MAINTAIN REQUIRED HEALTH, SAFETY AND EDUCATIONAL CAPABILITIES AT ALL TIMES THAT CLASSES ARE IN SESSION."

5. A PLAN DETAILING HOW EXITING REQUIRED BY THE APPLICABLE BUILDING CODE WILL BE MAINTAINED.

6. WORK UNDER THIS CONTRACT WILL BE CONDUCTED DURING THE SUMMER RECESS WHEN THE BUILDING IS UNOCCUPIED. IF THE BUILDING BECOMES OCCUPIED THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN ALL EXISTING MEANS OF EGRESS IN A CLEAR AND FREE MANNER, INCLUDING THE STORAGE OF MATERIALS AND STAGING OF EQUIPMENT ON THE SITE. IF ANY PORTION OF THE BUILDING DOES BECOME OCCUPIED THE ARCHITECT WILL PROVIDE A DETAILED PLAN FOR EXITING. OVERHEAD PROTECTION AND EGRESS IN ACCORDANCE WITH APPLICABLE BUILDING CODES.

7. A PLAN DETAILING HOW ADEQUATE VENTILATION WILL BE MAINTAINED DURING CONSTRUCTION.

WORK UNDER THIS PROJECT WILL BE COMPLETED DURING THE SUMMER RECESS WHEN THE BUILDING WILL NOT BE OCCUPIED BY FACULTY, STAFF OR STUDENTS. IF A PORTION OF THE BUILDING IS TO BECOME OCCUPIED DURING THE CONSTRUCTION PROCESS THE CONTRACTOR SHALL CLOSE OFF ALL INTAKES, OPENINGS, AND MECHANICAL VENTILATION SYSTEMS ADJACENT TO THE WORK AREA. THE ARCHITECT SHALL ASSIST THE CONTRACTOR IN DEVELOPING A PLAN TO PROVIDE ALTERNATE MEANS OF FRESH AIR TO ALL OCCUPIED SPACES.

"CONSTRUCTION AND MAINTENANCE OPERATIONS SHALL NOT PRODUCE NOISE IN EXCESS OF 60 DBA IN OCCUPIED SPACES OR SHALL BE SCHEDULED FOR TIMES WHEN THE BUILDING OR AFFECTED BUILDING SPACES ARE NOT OCCUPIED OR ACOUSTICAL ABATEMENT MEASURES SHALL BE TAKEN.'

"THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF CHEMICAL FUMES, GASES, AND OTHER CONTAMINATES PRODUCED BY WELDING, GASOLINE OR DIESEL ENGINES, ROOFING, PAVING, PAINTING, ETC. TO ENSURE THEY DO NOT ENTER OCCUPIED PORTIONS OF THE BUILDING OR AIR INTAKES." ALL VENTS SHALL BE SEALED TO PREVENT CONTAMINANTS FROM THE CONSTRUCTION AREA FROM ENTERING THE

OCCUPIED AREAS OF THE BUILDING.

9. "THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ACTIVITIES AND MATERIALS WHICH RESULT IN "OFF-GASSING" OF VOLATILE ORGANIC COMPOUNDS SUCH AS GLUES, PAINTS, FURNITURE, CARPETING, WALL COVERING, DRAPERY, ETC. ARE SCHEDULED, CURED OR VENTILATED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS BEFORE A SPACE CAN BE

10. "LARGE AND SMALL ASBESTOS ABATEMENT PROJECTS AS DEFINED SHALL PROVIDE SUCH EQUIPMENT AND FACILITIES AS ARE BY 12NYCRR56 SHALL NOT BE PERFORMED WHILE THE BUILDING IS OCCUPIED." IT IS OUR INTERPRETATION THAT THE TERM "BUILDING", AS REFERENCED IN THIS SECTION, MEANS A WING OR MAJOR SECTION OF A BUILDING THAT CAN BE COMPLETELY ISOLATED FROM THE REST OF THE BUILDING WITH SEALED NON COMBUSTIBLE CONSTRUCTION. THE ISOLATED PORTION OF THE BUILDING MUST CONTAIN EXITS THAT DO NOT PASS THROUGH THE OCCUPIED PORTION AND VENTILATION SYSTEMS MUST BE

11. EXTERIOR WORK SUCH AS ROOFING, FLASHING, SIDING, OR SOFFIT WORK MAY BE PERFORMED ON OCCUPIED BUILDINGS PROVIDED PROPER VARIANCES ARE IN PLACE AS REQUIRED, AND COMPLETE ISOLATION OF VENTILATION SYSTEMS AND AT WINDOWS IS PROVIDED. CARE MUST BE TAKEN TO SCHEDULE WORK SO THAT CLASSES ARE NOT DISRUPTED BY NOISE OR VISUAL DISTRACTION.

PHYSICALLY SEPARATED AND SEALED AT THE ISOLATION BARRIER.

MINOR ASBESTOS PROJECTS DEFINED BY 12NYCRR56 AS AN ASBESTOS PROJECT INVOLVING THE REMOVAL, DISTURBANCE REPAIR, ENCAPSULATION, ENCLOSURE OR HANDLING OF 10 SQUARE FEET OF ASBESTOS OR ASBESTOS MATERIAL MAY BE PERFORMED IN UNOCCUPIED AREAS OF AN OCCUPIED BUILDING IN

SPECIFIC AREAS HAVE BEEN TESTED AND FOUND TO CONTAIN LEAD AS DESCRIBED IN THE PROJECT MANUAL. THESE AREAS WILL BE ABATED IN ACCORDANCE WITH SPECIFICATION SECTION 020600

12. UNDER NEW YORK STATE LAW SMOKING IS PROHIBITED ON SCHOOL GROUNDS. EMPLOYEES FOUND TO BE SMOKING ON SCHOOL GROUNDS SHALL BE ORDERED OFF SITE AND A SECOND OFFENSE WILL BE GROUNDS FOR PERMANENT REMOVAL FROM PROJECT. LEGAL PENALTIES MAY ALSO BE

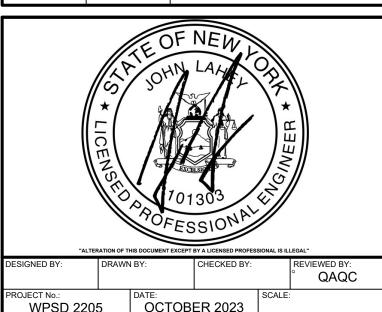
ALL CONTRACTORS SHALL TAKE EVERY PRECAUTION AND NECESSARY OR REQUIRED FOR THE SAFETY OF ITS EMPLOYEES. IN CASE OF AN ACCIDENT, FIRST AID SHALL BE ADMINISTERED TO ANY WHO MAY BE INJURED IN THE PROGRESS OF THE WORK. IN ADDITION, THE CONTRACTOR SHALL BE PREPARED FOR THE REMOVAL TO THE HOSPITAL FOR TREATMENT OF ANY EMPLOYEE EITHER SERIOUSLY

THE CONTRACTOR FOR GENERAL CONSTRUCTION SHALL PROVIDE TEMPORARY WEATHER-TIGHT AND INSULATED ENCLOSURES AS MAY BE REQUIRED BY THE SCOPE OF WORK FOR ALL EXTERIOR OPENINGS SO AS TO PROTECT ALL WORK FROM THE WEATHER, AND TO PROVIDE SECURITY AGAINST UNAUTHORIZED ENTRY. ENCLOSURES SHALL NOT CREATE DEAD END CONDITIONS, REQUIRED EXITS SHALL BE MAINTAINED FREE AND CLEAR.

architects engineers

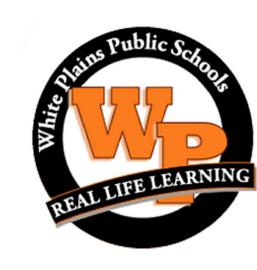
> 2700 Westchester Ave., Suite 415 Purchase, NY 10577 914.358.5623 • www.h2m.com

DATE	DESCRIPTION
10-16-23	FINAL BID DOCUMENT
11-01-23	ADDENDUM #1
	10-16-23



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

ALL CONTRACTS

FINAL BID DOCUMENT

GENERAL NOTES, MAPS, DRAWINGS LIST AND LEGENDS

G000.00

AFF	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	DEMAND CONTROLLED VENTILATION
DEG. F	DEGREES FAHRENHEIT
DIA	DIAMETER
DX	DIRECT EXPANSION
'E'	ELECTRICAL CONTRACTOR
(E)	EXISTING
EA	EACH FAITERING AIR TEMPERATURE
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATING
ESP	EXTERNAL STATIC PRESSURE
FAI FD	FRESH AIR INTAKE
FD FLA	FLOOR DRAIN FULL LOAD AMPS
FT. H20	FEET OF WATER
FTR	FIN TUBE RADIATOR
'G'	GENERAL CONSTRUCTION CONTRACTOR
GPM	GALLONS PER MINUTE
GPH	GALLONS PER HOUR
H	HEIGHT
 'H'	HVAC CONTRACTOR
HP	HORSEPOWER
IN.	INCHES
IN. W.C. (W.G.)	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	NATIONAL PIPE THREAD
NTS	NOT TO SCALE
OAI	OUTDOOR AIR INTAKE
OED	OUTER DIAMETER
OED 'P'	OPEN ENDED DUCT
PD	PLUMBING CONTRACTOR PRESSURE DROP
PSIG	LBS / SQUARE INCH (GAUGE PRESSURE)
RA	RETURN AIR
RD	ROOF DRAIN
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE
SA	SUPPLY AIR
SAT	SUPPLY AIR TEMPERATURE
SEER	SEASONAL ENERGY EFFICIENCY RATING
TEMP	TEMPERATURE
TG	TRANSFER GRILLE
TYP	TYPICAL
VFD	VARIABLE FREQUENCY DRIVE
	WIDTH
W	T WID III
W	WET BULB

DUCTWORK LEGEND			
SYMBOL	ABBREV	DESCRIPTION	
		DUCTWORK BRANCH CONNECTION	
	VD	VOLUME DAMPER	
Ø	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	
	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	
CONTROLS LEGEND			

CONTROLS LEGEND		
SYMBOL	ABBREV	DESCRIPTION
©		CARBON MONOXIDE SENSOR
T		THERMOSTAT
S		DIGITAL TEMPERATURE SENSOR
H		HUMIDITY SENSOR
© 2		CARBON DIOXIDE SENSOR
P		PRESSURE SENSOR

PIPING LEGEND		
SYMBOL	ABBREV	DESCRIPTION
		NEW WORK
C— O—		PIPING DOWN/ PIPING UP
€ -C		BALL VALVE WITH HOSE END CONNECTION
<u> </u>	TH	THERMOMETER
—- —	U	UNION
— - - - - -	FPC	FLEXIBLE PIPE CONNECTION
		DIRECTION OF FLOW
一於一陸	PSR	PRESSURE SAFETY AND RELIEF VALVE
_ _	PRV	PRESSURE REDUCING VALVE
-5-	BV	BALL VALVE
──®─ ₩	BA	BALANCING VALVE
□	BFV	BUTTERFLY VALVE
		TEMPERATURE SENSOR WITH THERMOWELL
───	GA	GATE VALVE
₩ —₩—	GB	GLOBE VALVE
	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
₩ 六	FD	FLOOR DRAIN
S		AIR SEPARATOR
——⊗ ^{F&T}		STEAM TRAPS (INDICATE TYPE)
	CH	CHECK VALVE
<u></u>	PG	PRESSURE GAUGE WITH GAUGE COCK
	RED	REDUCER
I —	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):

- 1. 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, 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.

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

- 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.
- 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 PERMITTED.
- 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.

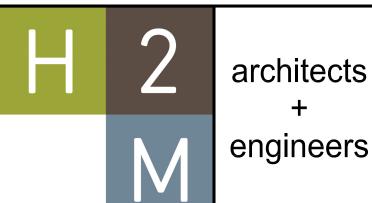
SCOPE NOTES

1. PROVIDE ALL LOUVERS FOR INSTALLATION. 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.
- 5. FURNISH ALL SLEEVES FOR PIPE AND CONDUIT FLOOR, WALL, PARTITION, AND ROOF PENETRATIONS FOR INSTALLATION.
- 6. FURNISH ALL CURBS FOR ALL ROOF MOUNTED EQUIPMENT AND DUCT PENETRATIONS FOR INSTALLATION.
- 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, ROUGH PATCHING, FINISH PATCHING, AND FLASHING AS REQUIRED IN THE EXECUTION OF THE WORK.
- 9. ALL NEW EQUIPMENT TO BE INTEGRATED WITH EXISTING SCHNEIDER ELECTRIC EMF BMS.
- LEGENDS/ABBREVIATIONS NOTES
- 1. ABBREVIATIONS AND SYMBOLS ON THIS SHEET DO NOT DEFINE THE SCOPE OF WORK.

ADD ALTERNATE 1

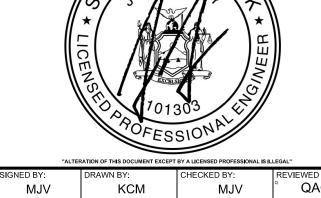
- 1. PROVIDE PRICING FOR REMOVAL OF PNEUMATIC RADIATOR CONTROL VALVES AND ASSOCIATED THERMOSTATS. SEE MD DRAWINGS FOR FURTHER INFORMATION.
- 2. PROVIDE PRICING FOR FURNISH AND INSTALL OF NEW DDC RADIATOR CONTROL VALVES (CV-1) SEE DRAWINGS FOR FURTHER INFORMATION.
- PROVIDE NEW TWO STAGE THERMOSTATS IN 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.



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	10-16-23	FINAL BID DOCUMENT
1	11-01-23	ADDENDUM #1



SIGNED BY:

MJV

KCM

MJV

QAQC

OJECT No.:

WPSD 2205

DATE:

OCTOBER 2023

CHECKED BY:

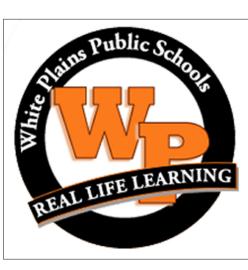
REVIEWED BY:

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

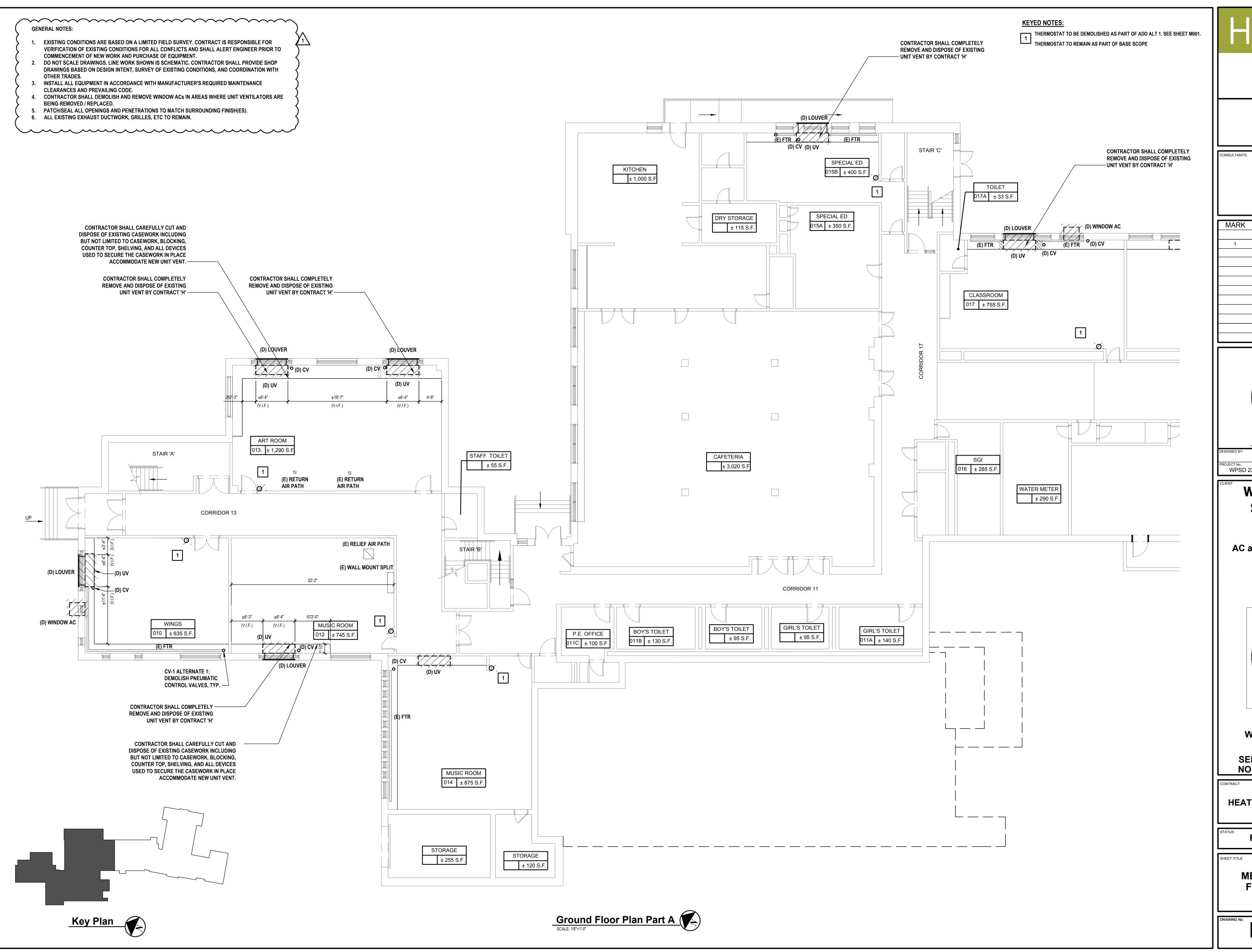
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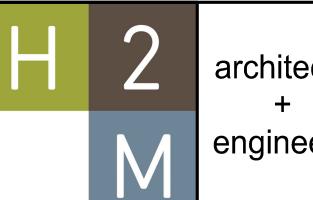
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HVAC LEGENDS, SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES

VING No.

M001.00





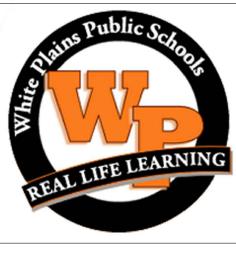
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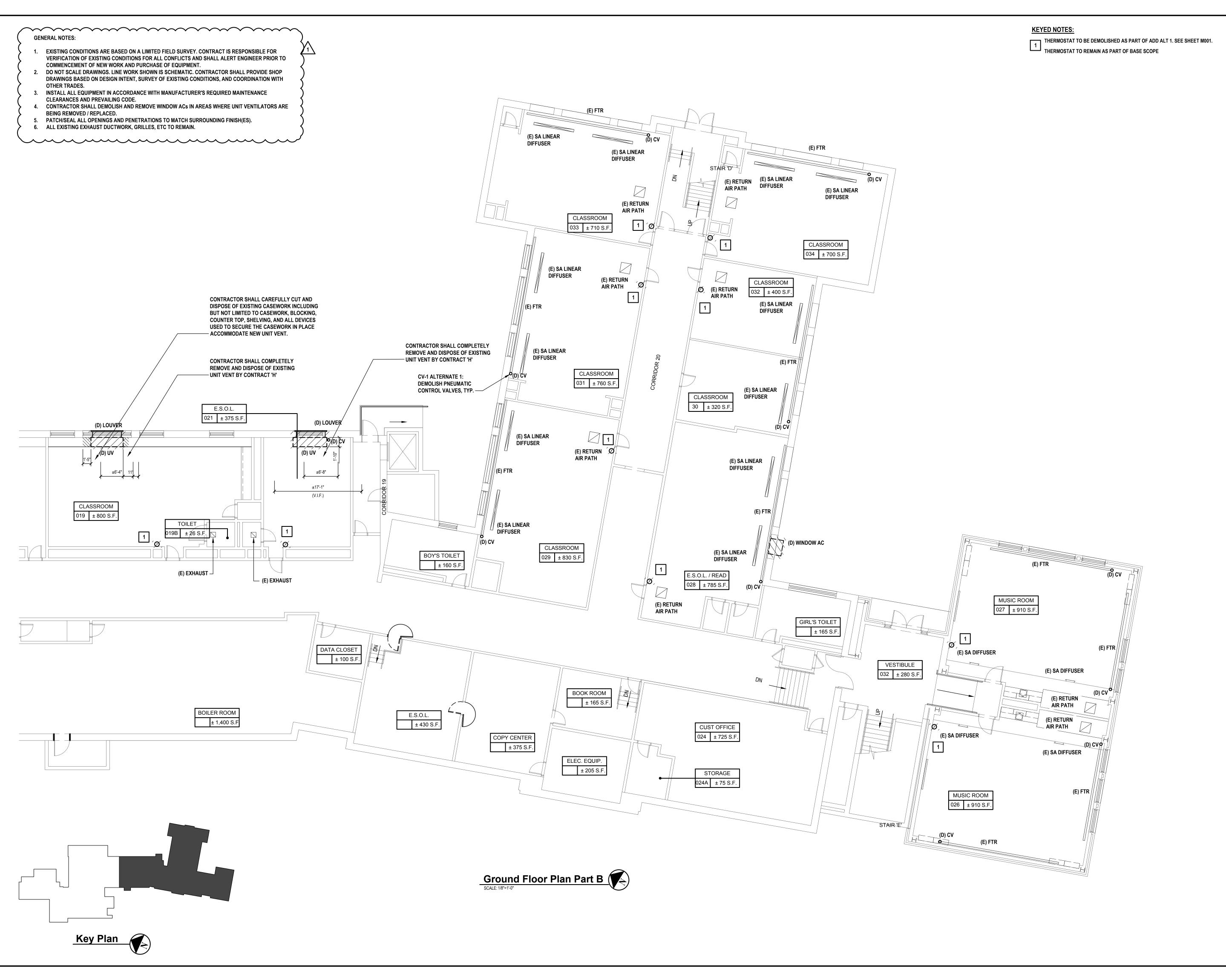
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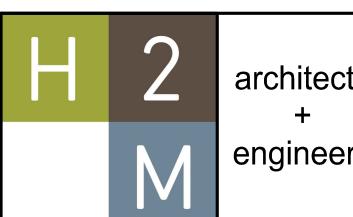
CONTRACT H
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CONDITIONING

FINAL BID DOCUMENT

MECHANICAL GROUND FLOOR PLAN PART A

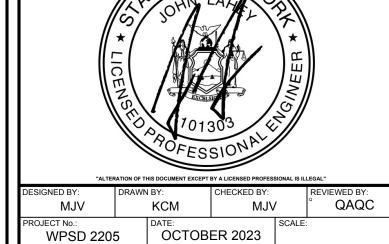
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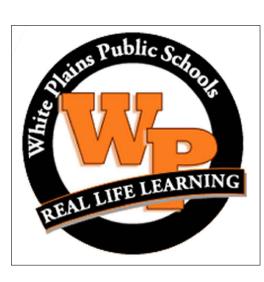
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White Plains City School District

AC and Ventilation Upgrades at Mamaroneck Elementary School



7 Nosband Ave. White Plains, NY 10605

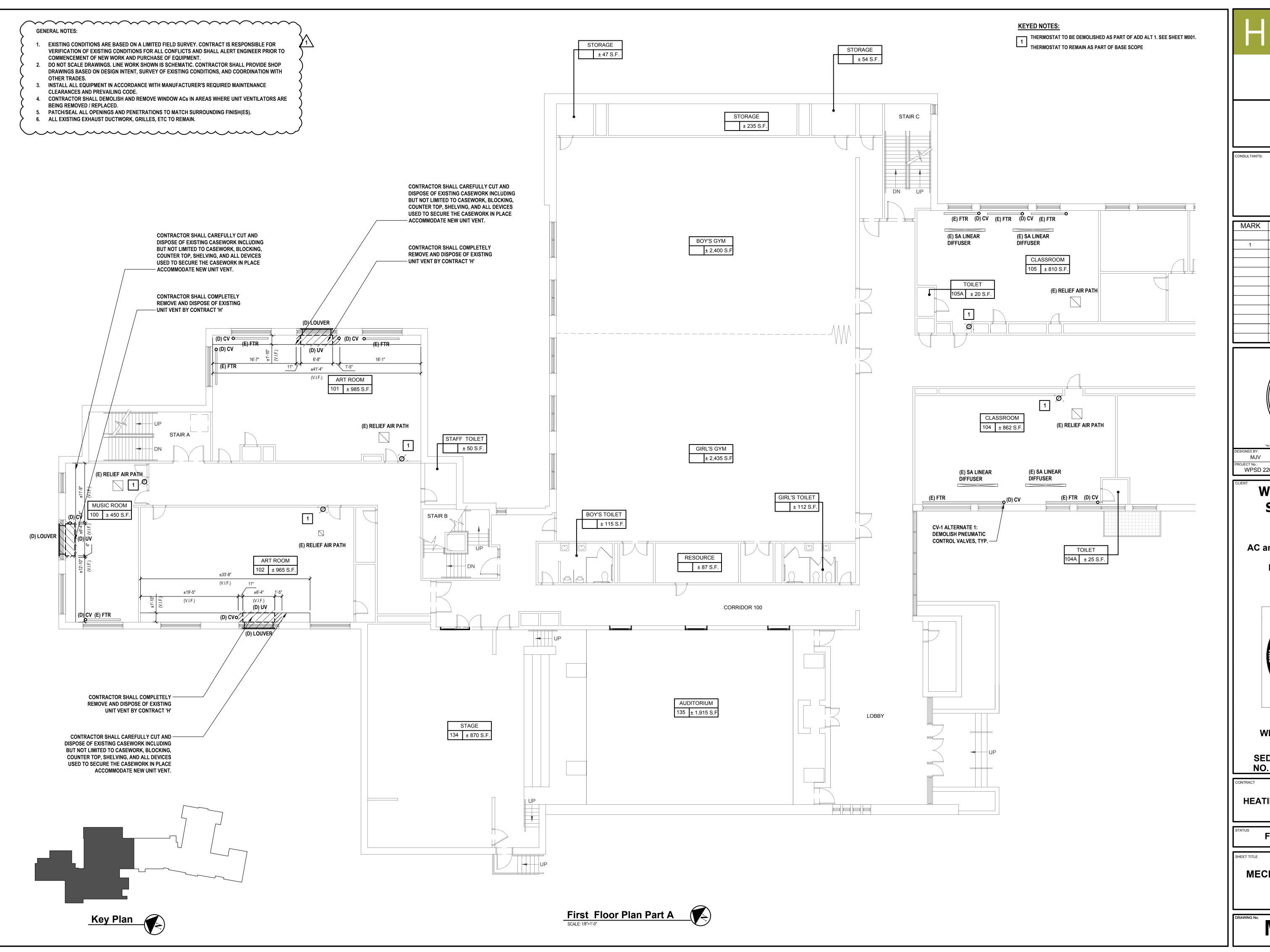
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CONTRACT H HEATING VENTILATION AND AIR CONDITIONING

FINAL BID DOCUMENT

MECHANICAL GROUND FLOOR **PLAN PART B**

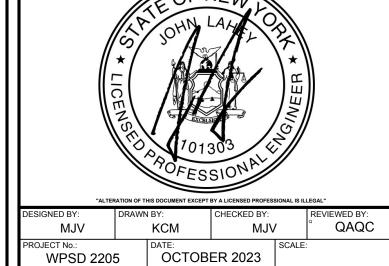
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White Plains City School District

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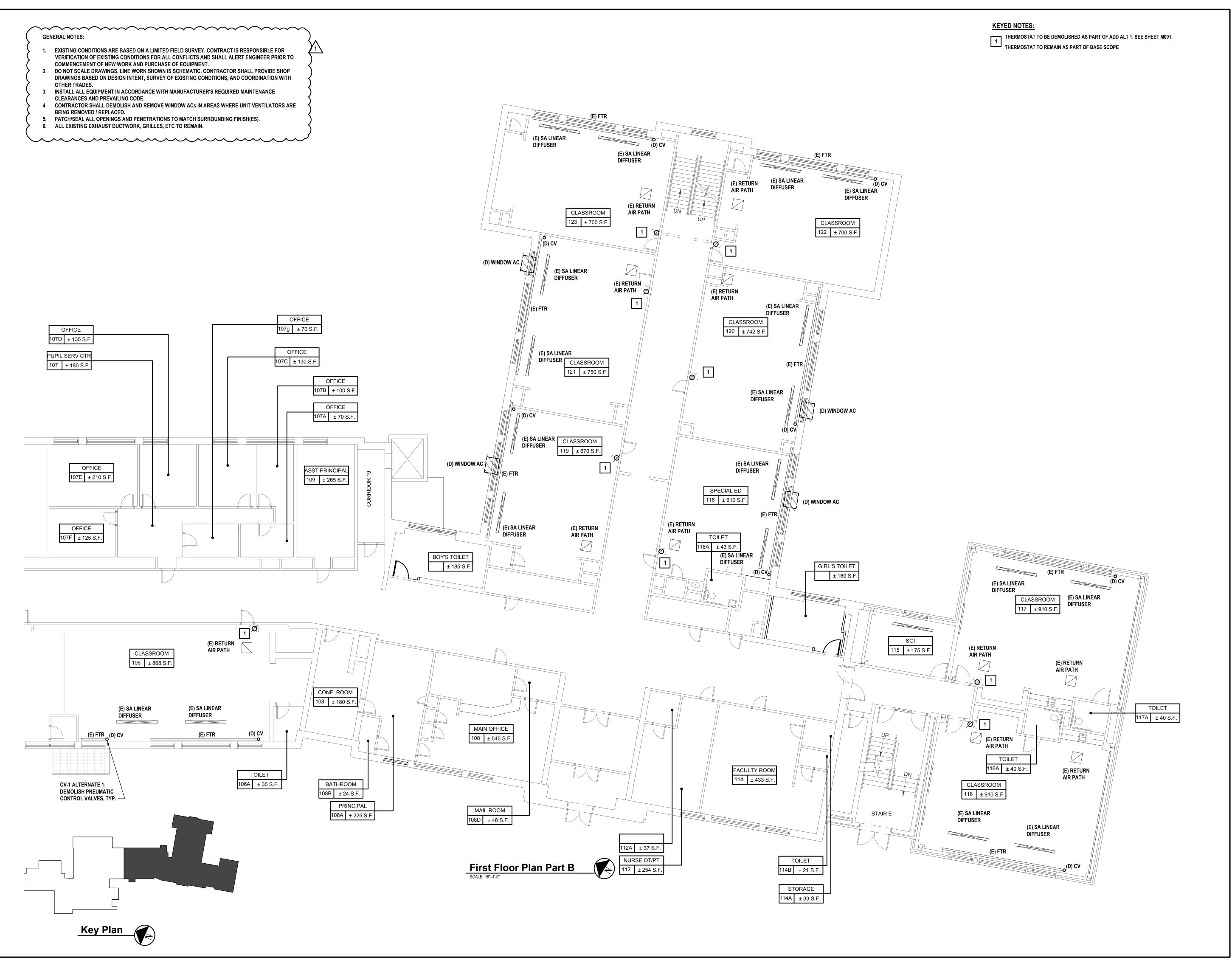
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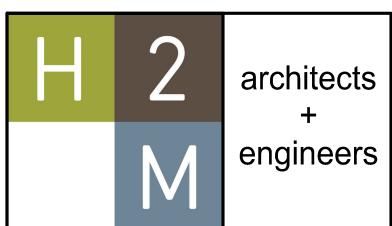
CONTRACT H
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CONDITIONING

FINAL BID DOCUMENT

MECHANICAL FIRST FLOOR PLAN PART A

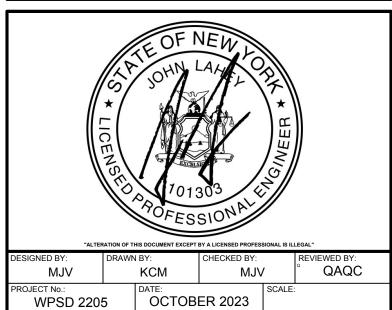
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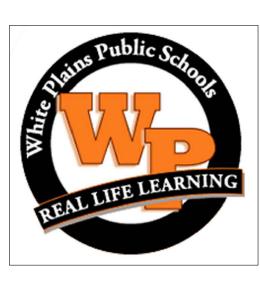
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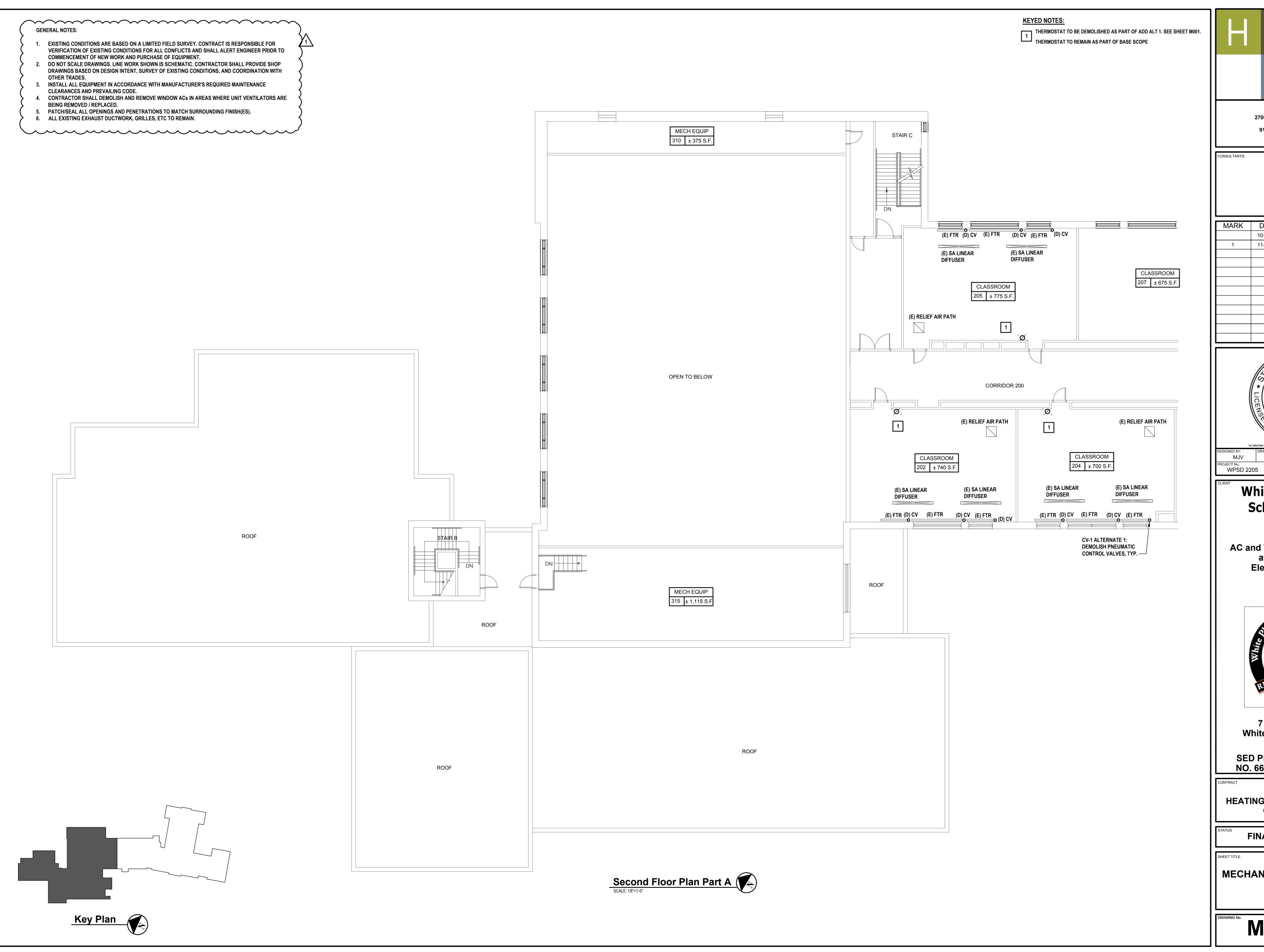
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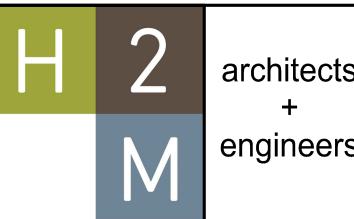
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MECHANICAL FIRST FLOOR PLAN PART B

MD111.00





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White Plains City School District

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



7 Nosband Ave. White Plains, NY 10605

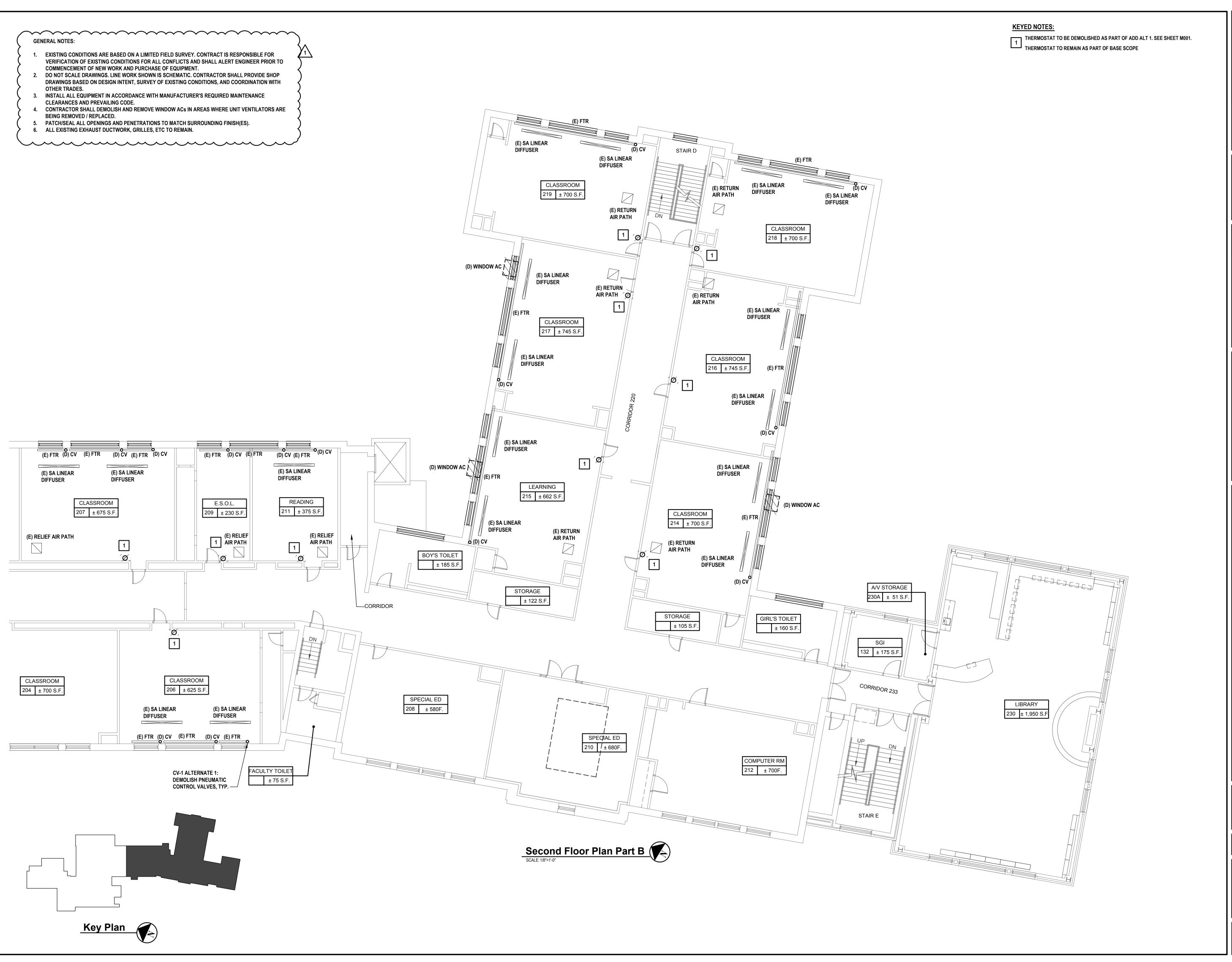
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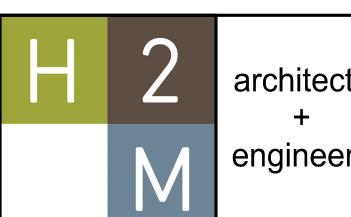
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FINAL BID DOCUMENT

MECHANICAL SECOND FLOOR PART A

MD120.00





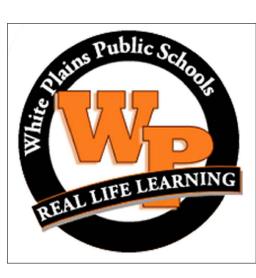
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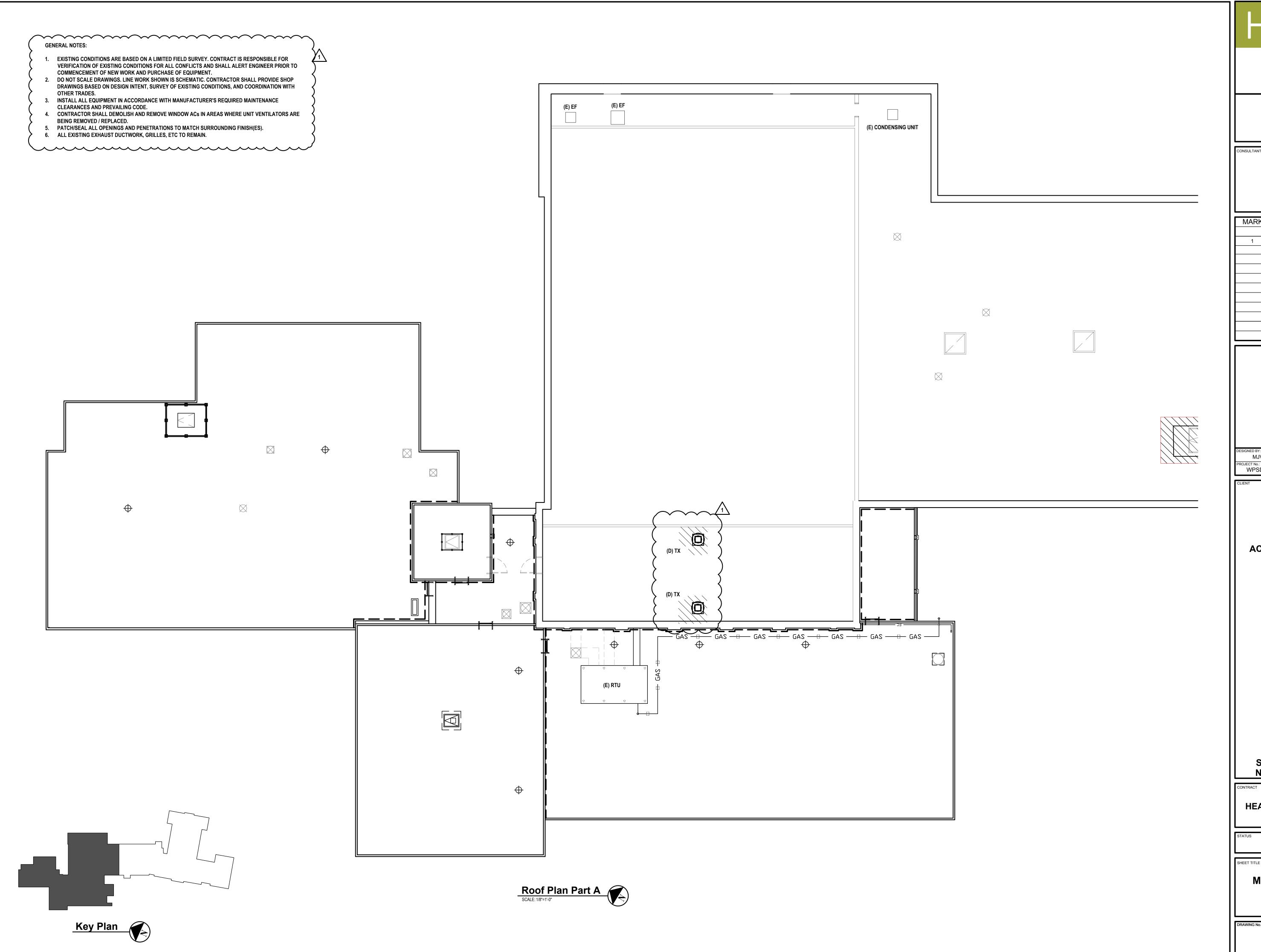
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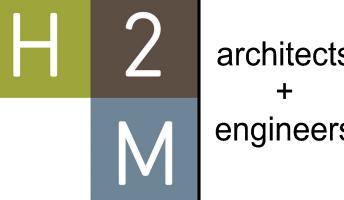
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MECHANICAL SECOND FLOOR PLAN PART B

MD121.00





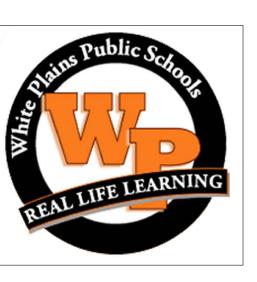
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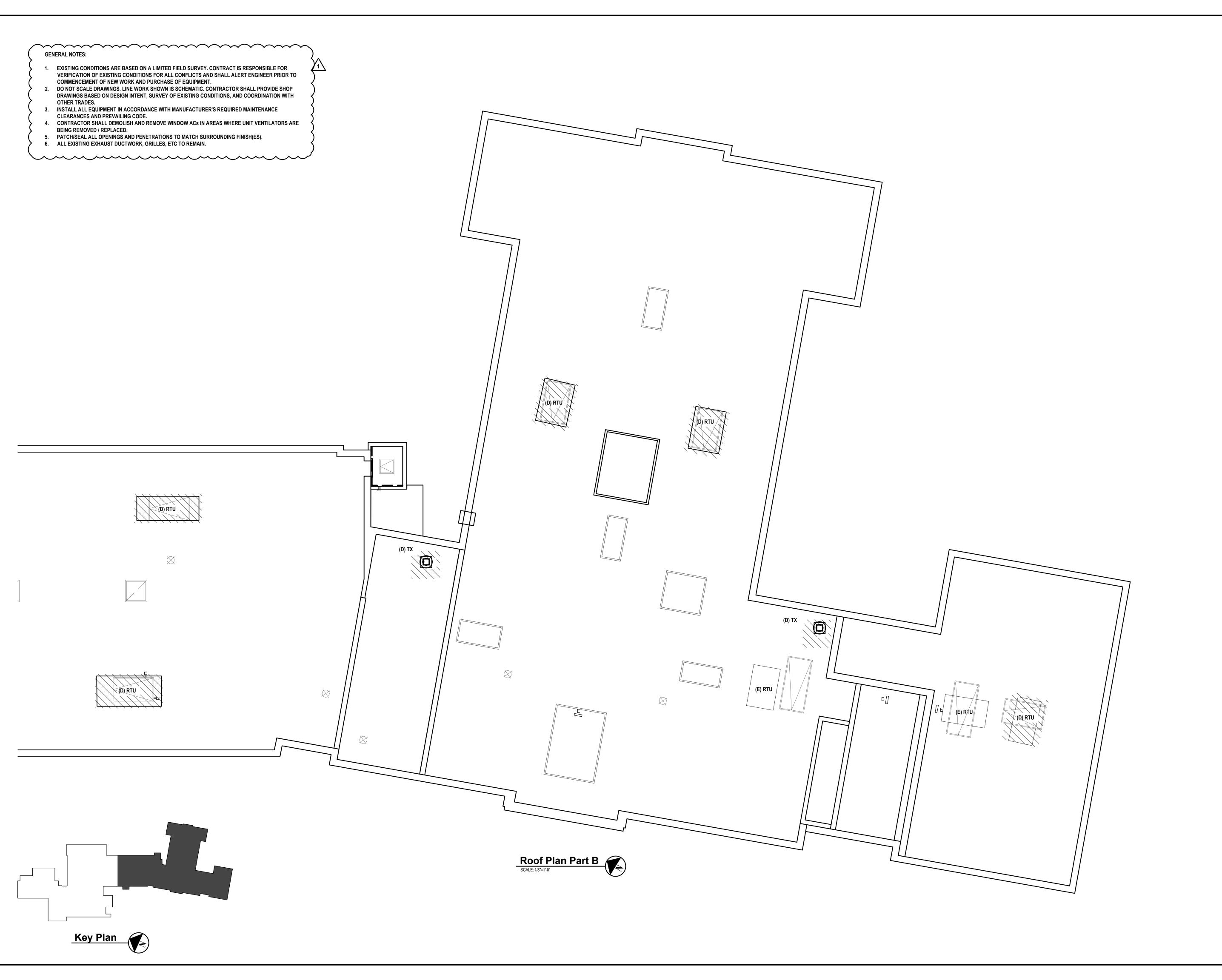
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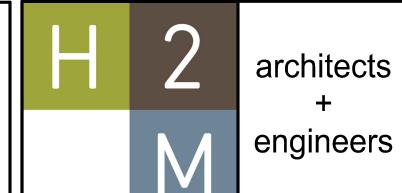
CONTRACT H
HEATING VENTILATION AND AIR
CONDITIONING

FINAL BID DOCUMENT

MECHANICAL ROOF PLAN PART A

MD140.00





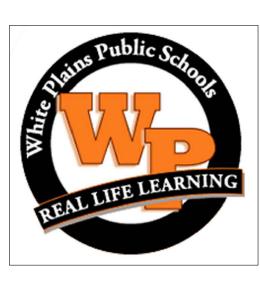
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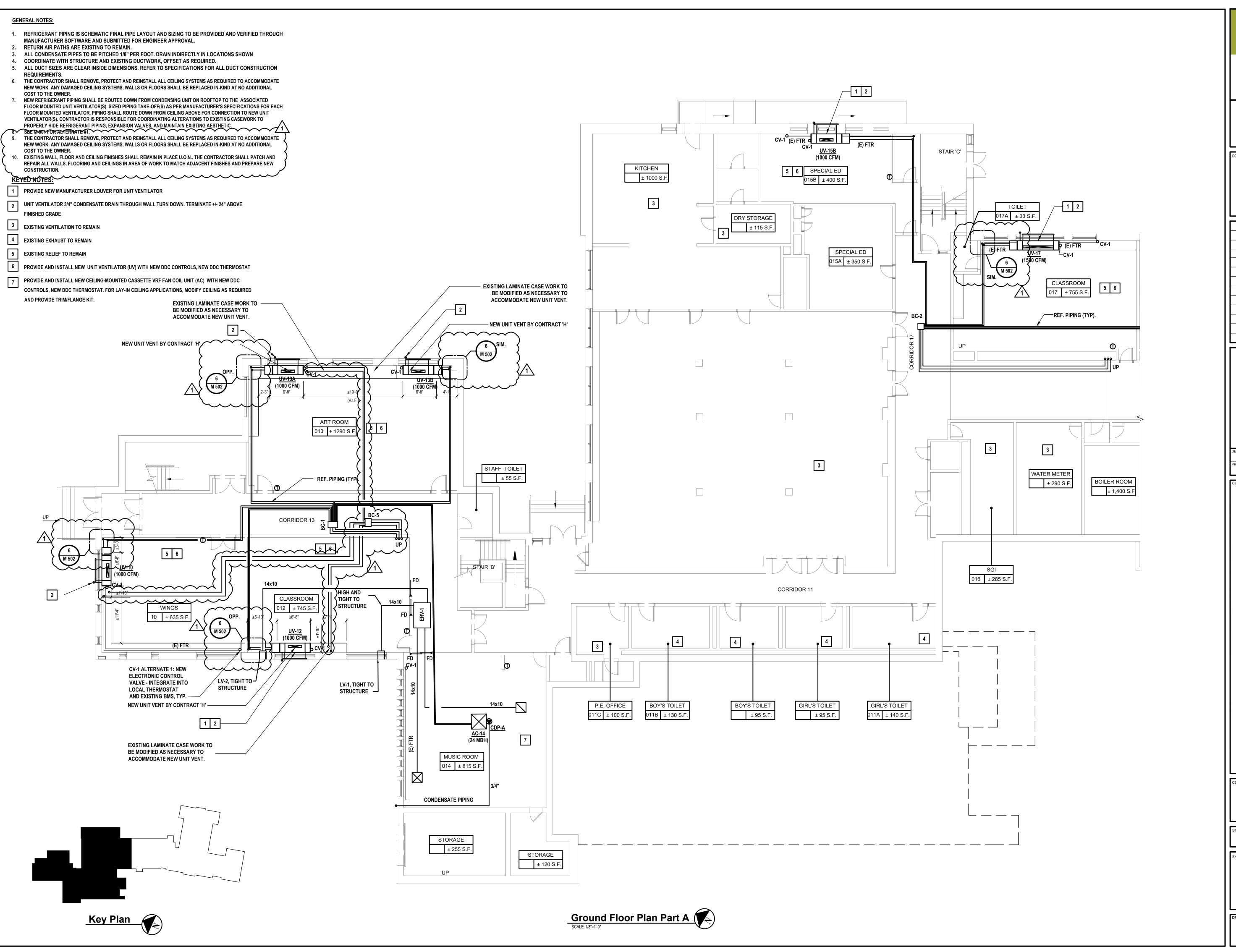
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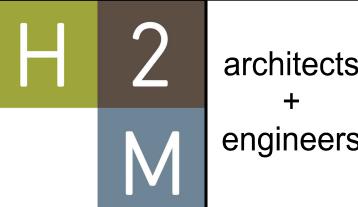
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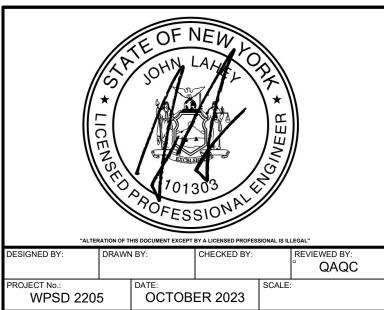
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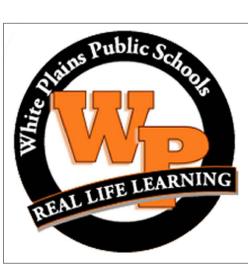


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White Plains City School District

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7 Nosband Ave. White Plains, NY 10605

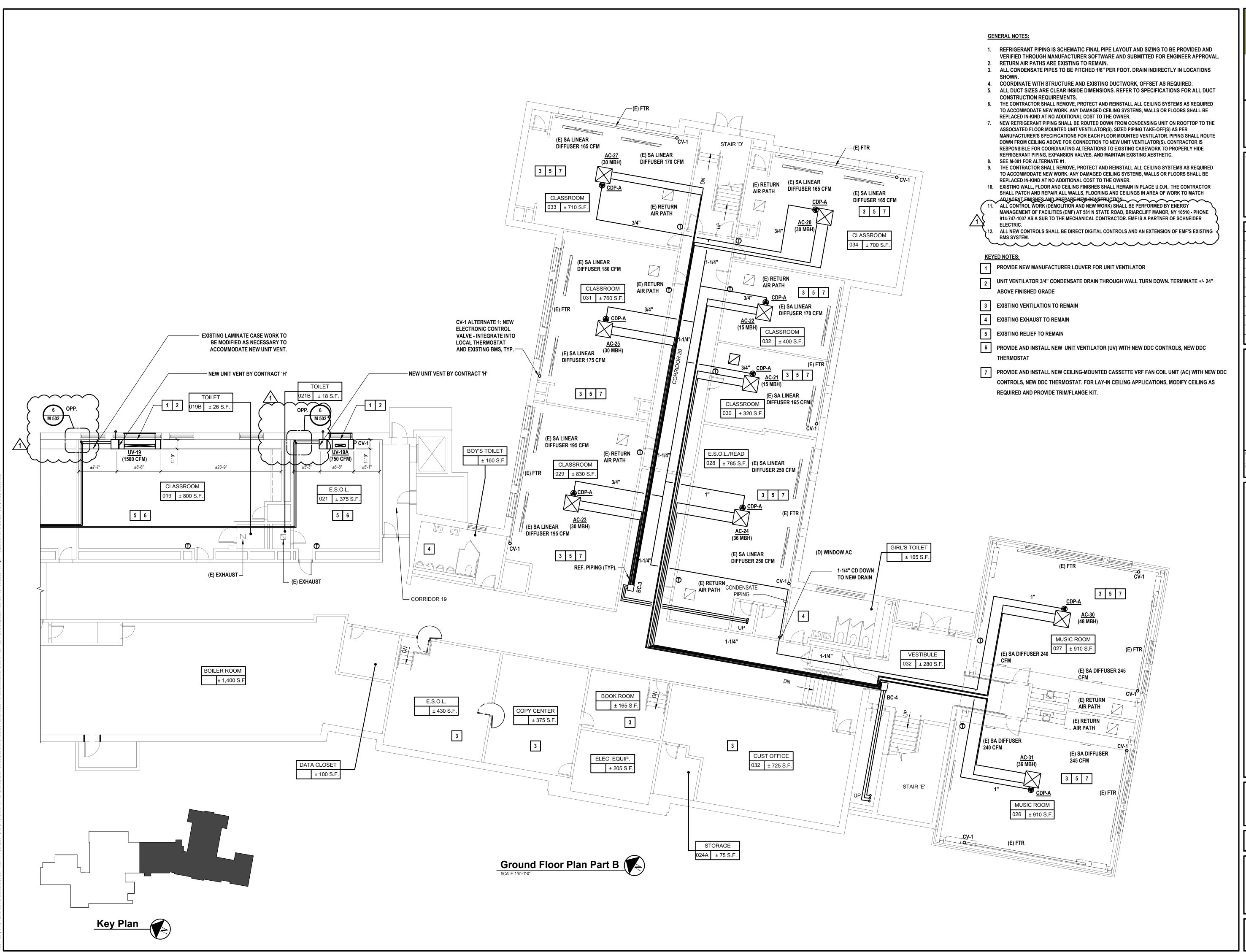
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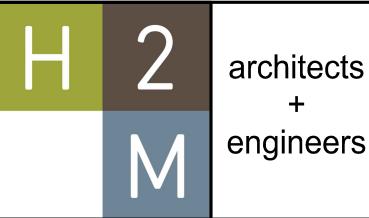
CONTRACT H HEATING VENTILATION AND AIR CONDITIONING

FINAL BID DOCUMENT

MECHANICAL GROUND FLOOR PLAN PART A

M100.00



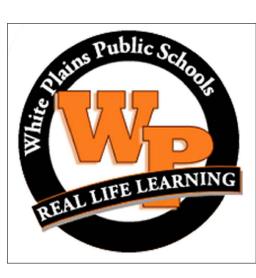


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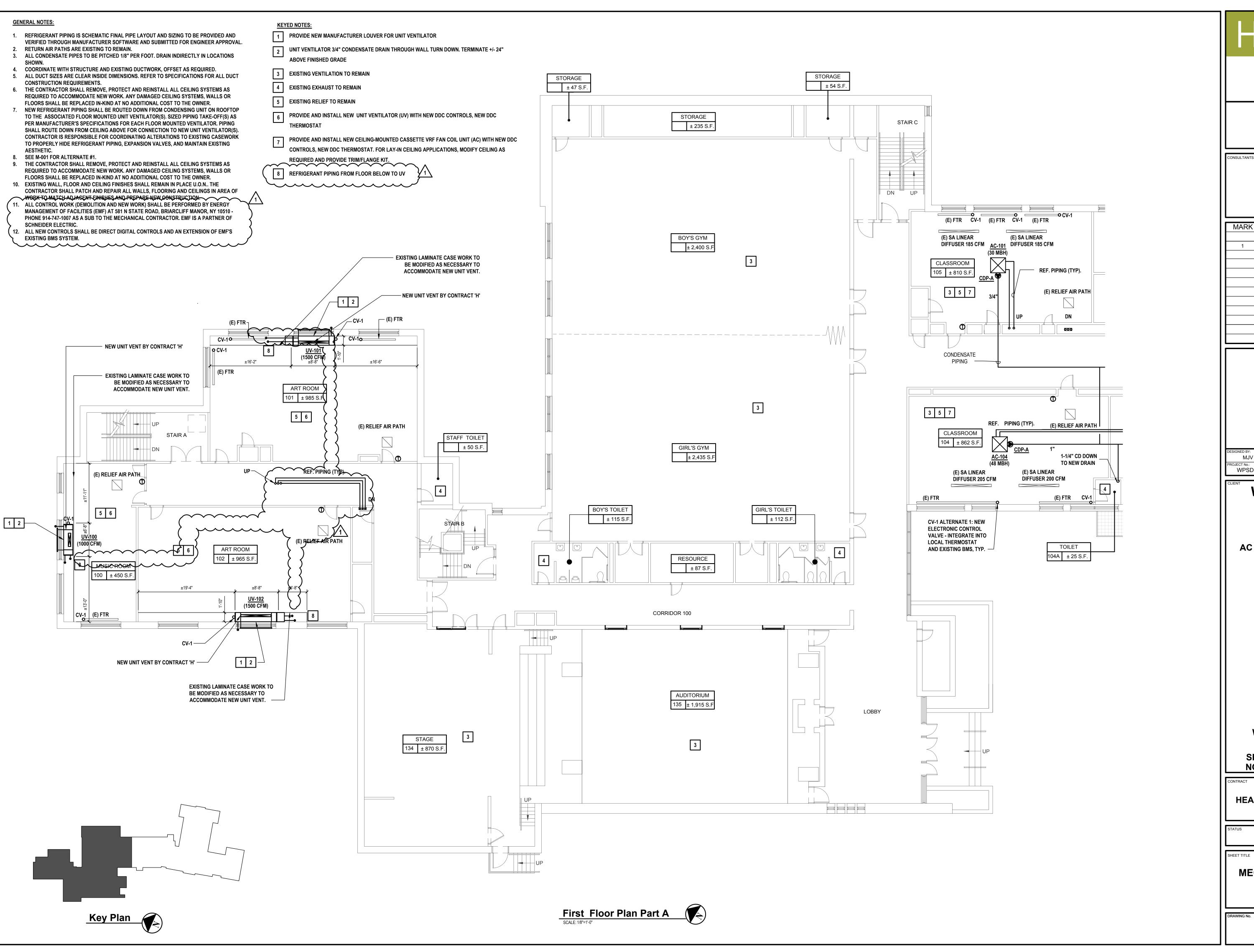
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CONTRACT H HEATING VENTILATION AND AIR CONDITIONING

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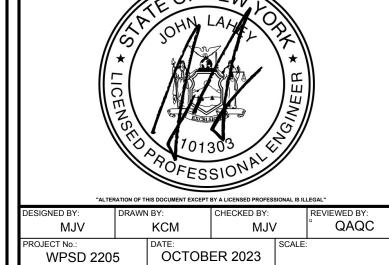
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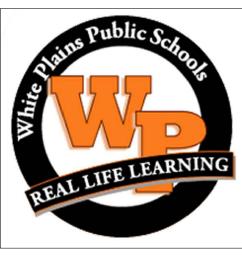
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White Plains City School District

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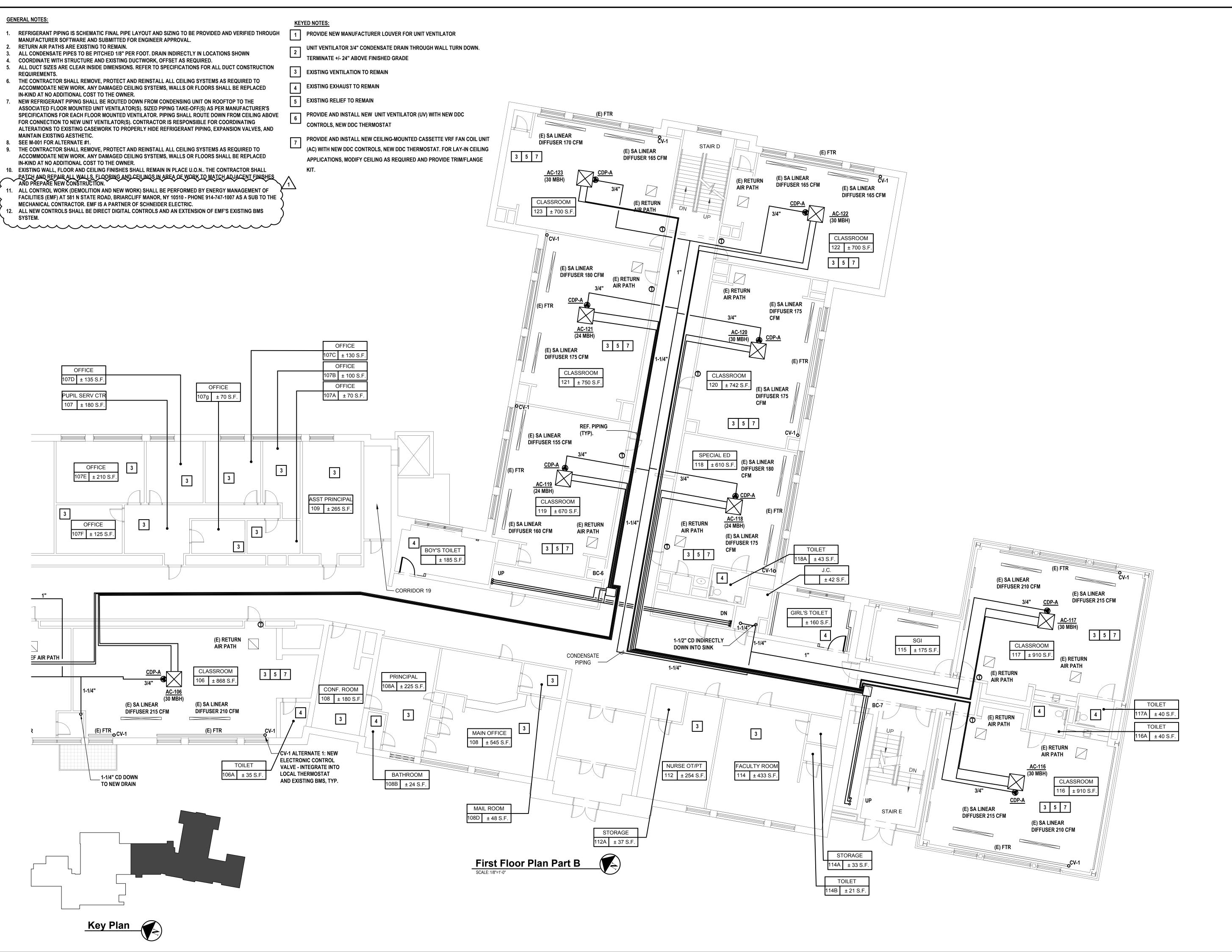
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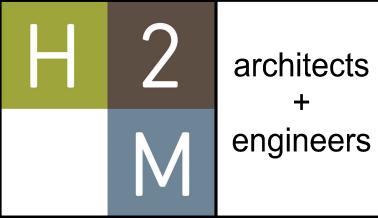
CONTRACT H
HEATING VENTILATION AND AIR
CONDITIONING

FINAL BID DOCUMENT

MECHANICAL FIRST FLOOR PLAN PART A

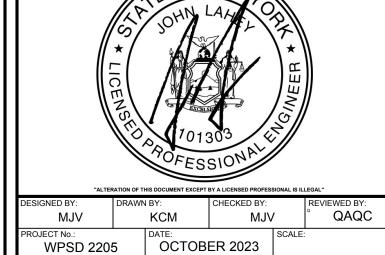
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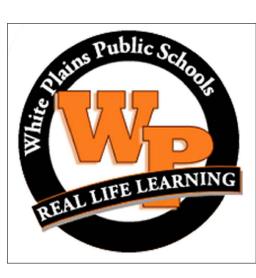
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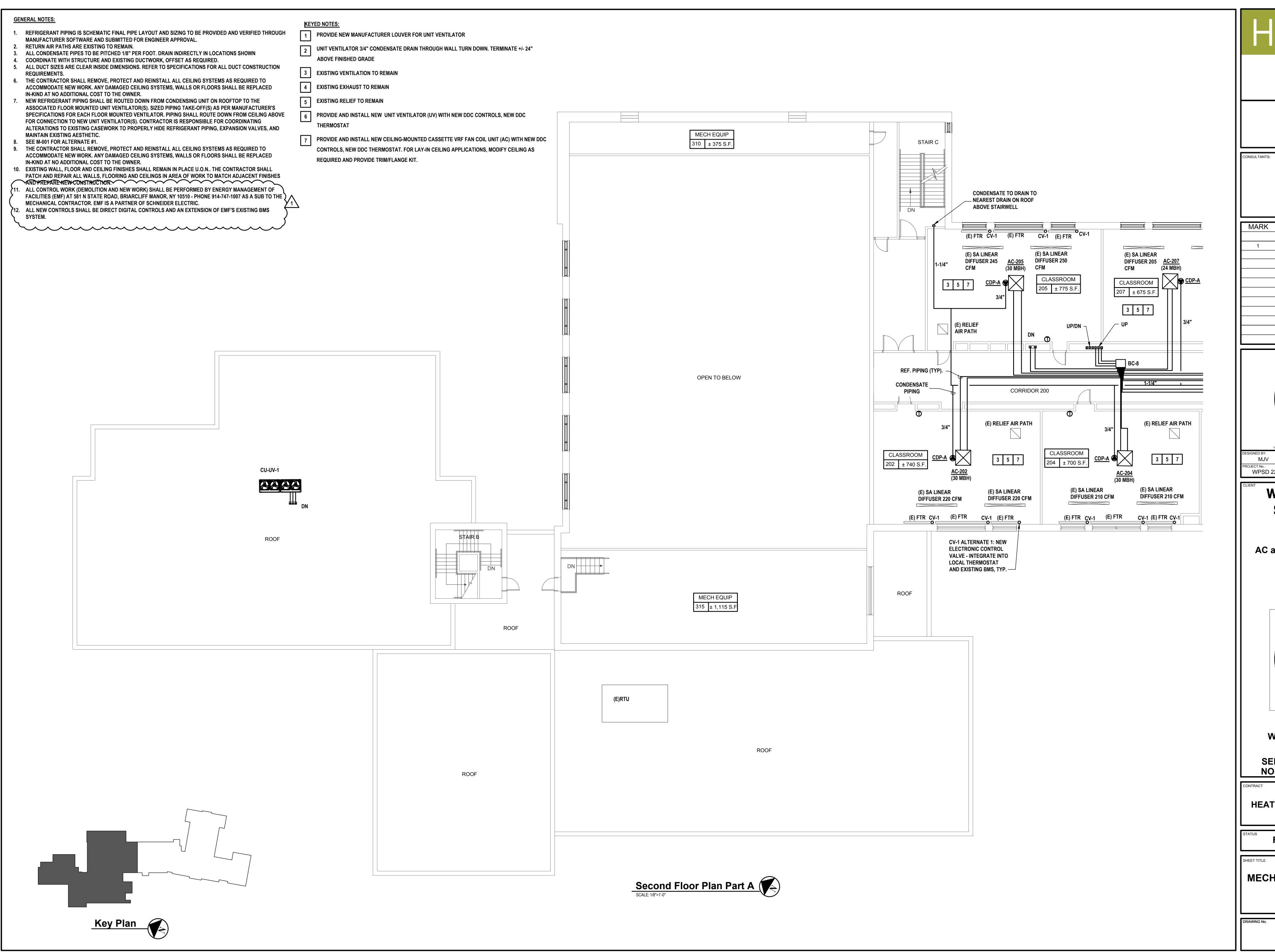
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CONDITIONING

FINAL BID DOCUMENT

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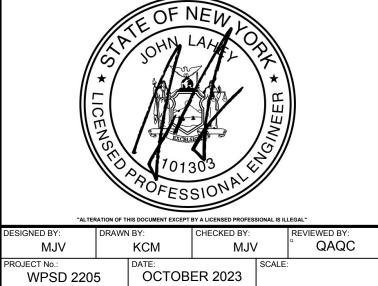
MECHANICAL FIRST FLOOR PLAN PART B

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White Plains City School District

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



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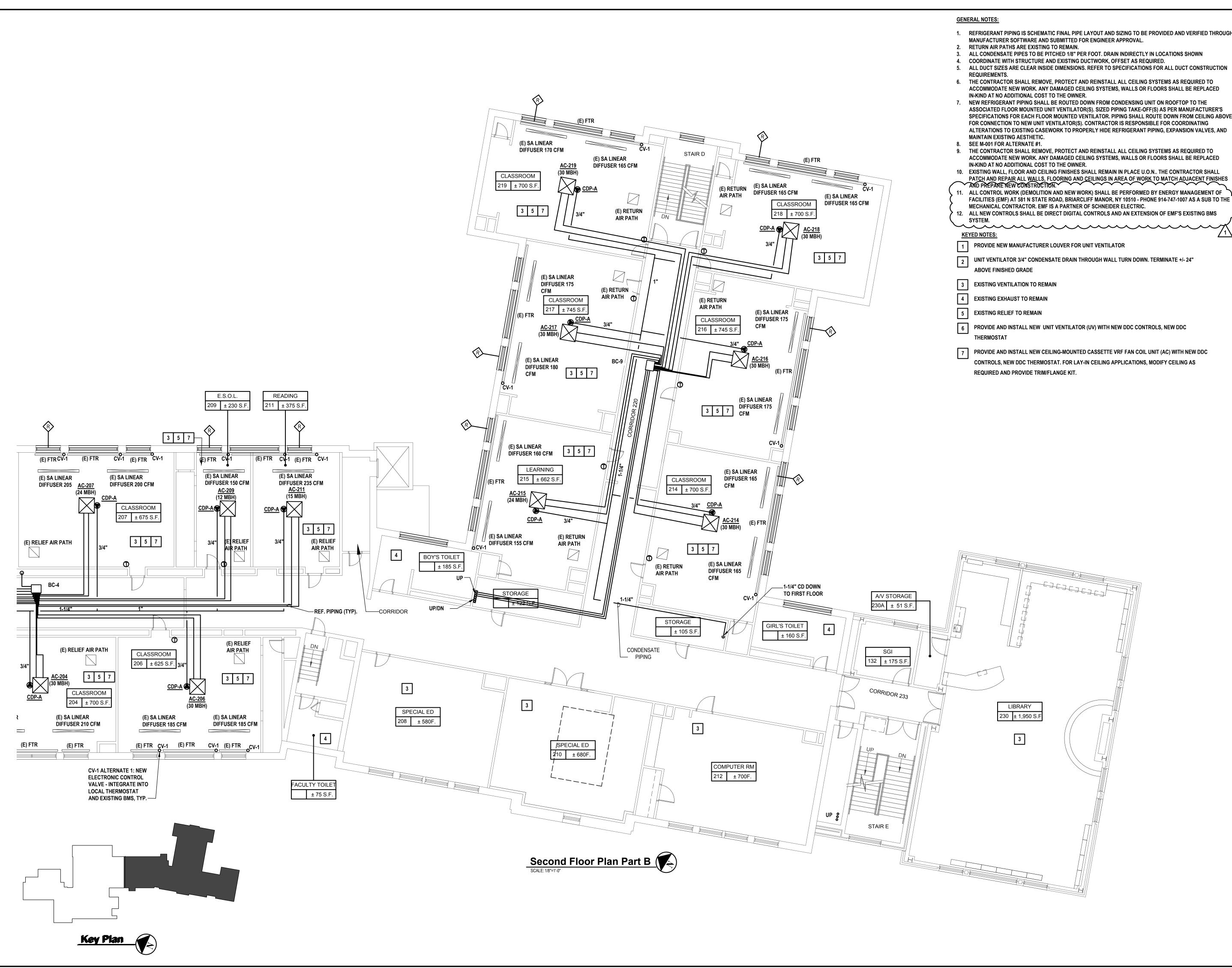
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CONTRACT H HEATING VENTILATION AND AIR CONDITIONING

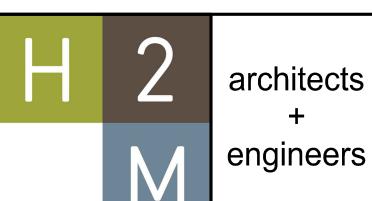
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MECHANICAL SECOND FLOOR PART A

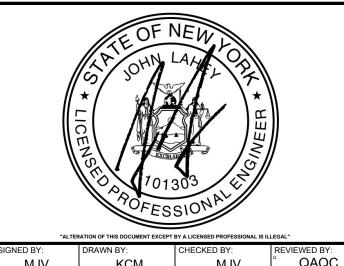
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- 1. REFRIGERANT PIPING IS SCHEMATIC FINAL PIPE LAYOUT AND SIZING TO BE PROVIDED AND VERIFIED THROUGH
- 6. THE CONTRACTOR SHALL REMOVE, PROTECT AND REINSTALL ALL CEILING SYSTEMS AS REQUIRED TO ACCOMMODATE NEW WORK. ANY DAMAGED CEILING SYSTEMS, WALLS OR FLOORS SHALL BE REPLACED
- 7. NEW REFRIGERANT PIPING SHALL BE ROUTED DOWN FROM CONDENSING UNIT ON ROOFTOP TO THE ASSOCIATED FLOOR MOUNTED UNIT VENTILATOR(S). SIZED PIPING TAKE-OFF(S) AS PER MANUFACTURER'S SPECIFICATIONS FOR EACH 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 PROPERLY HIDE REFRIGERANT PIPING, EXPANSION VALVES, AND
- ACCOMMODATE NEW WORK. ANY DAMAGED CEILING SYSTEMS, WALLS OR FLOORS SHALL BE REPLACED
- 10. EXISTING WALL, FLOOR AND CEILING FINISHES SHALL REMAIN IN PLACE U.O.N.. THE CONTRACTOR SHALL
- 11. ALL CONTROL WORK (DEMOLITION AND NEW WORK) SHALL BE PERFORMED BY ENERGY MANAGEMENT OF
- 12. ALL NEW CONTROLS SHALL BE DIRECT DIGITAL CONTROLS AND AN EXTENSION OF EMF'S EXISTING BMS



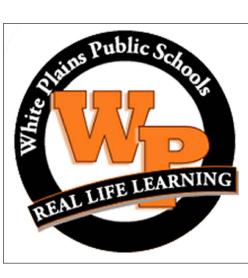
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White Plains City School District

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



7 Nosband Ave. White Plains, NY 10605

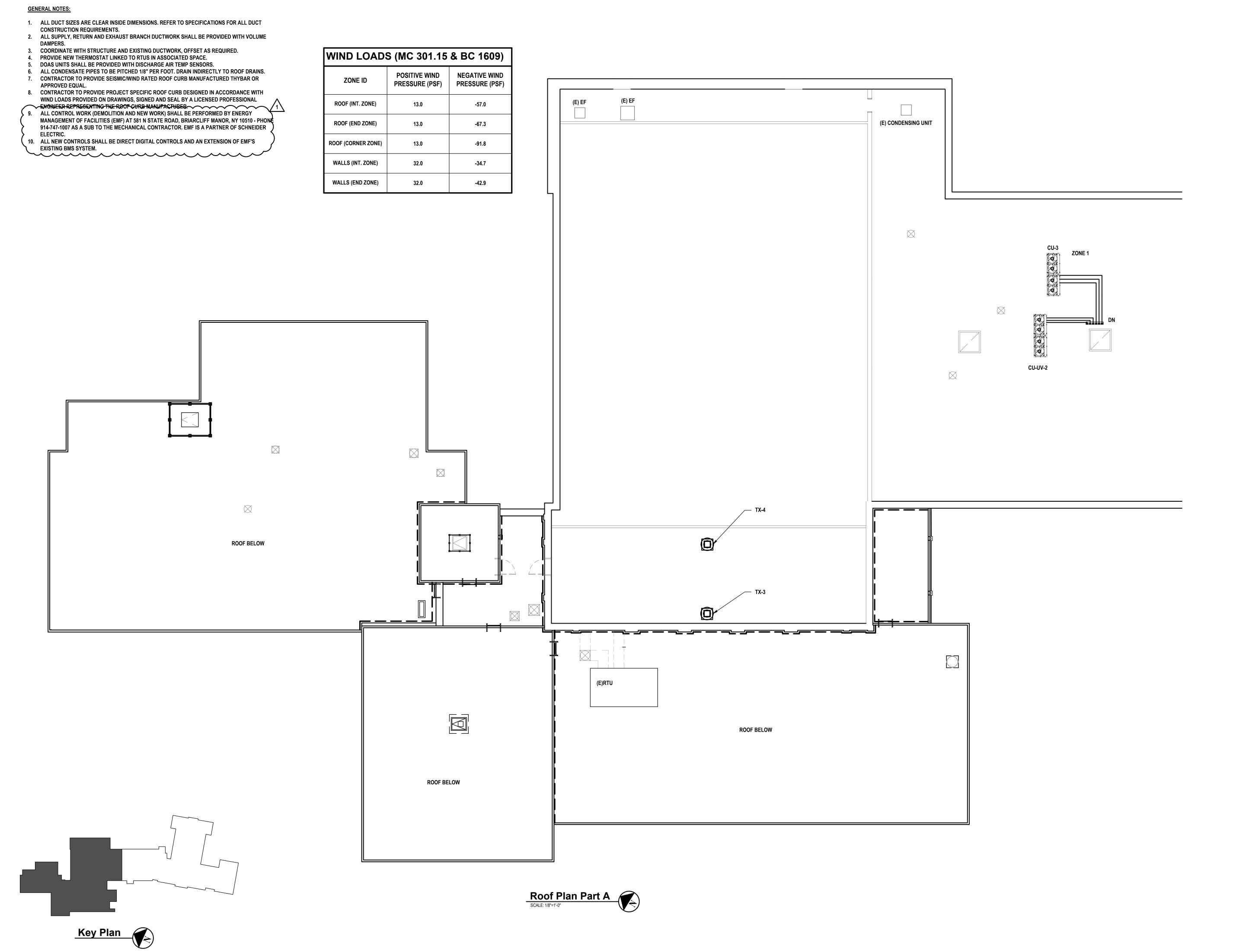
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CONTRACT H HEATING VENTILATION AND AIR CONDITIONING

FINAL BID DOCUMENT

MECHANICAL SECOND FLOOR **PLAN PART B**

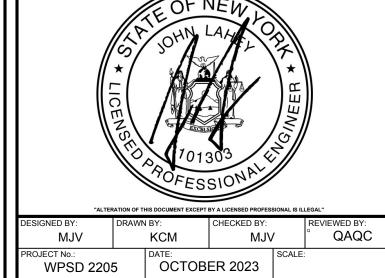
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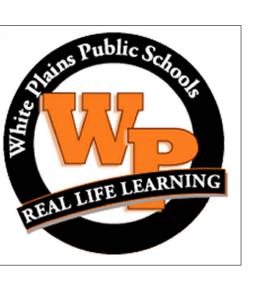
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White Plains City School District

AC and Ventilation Upgrades at Mamaroneck Elementary School



7 Nosband Ave. White Plains, NY 10605

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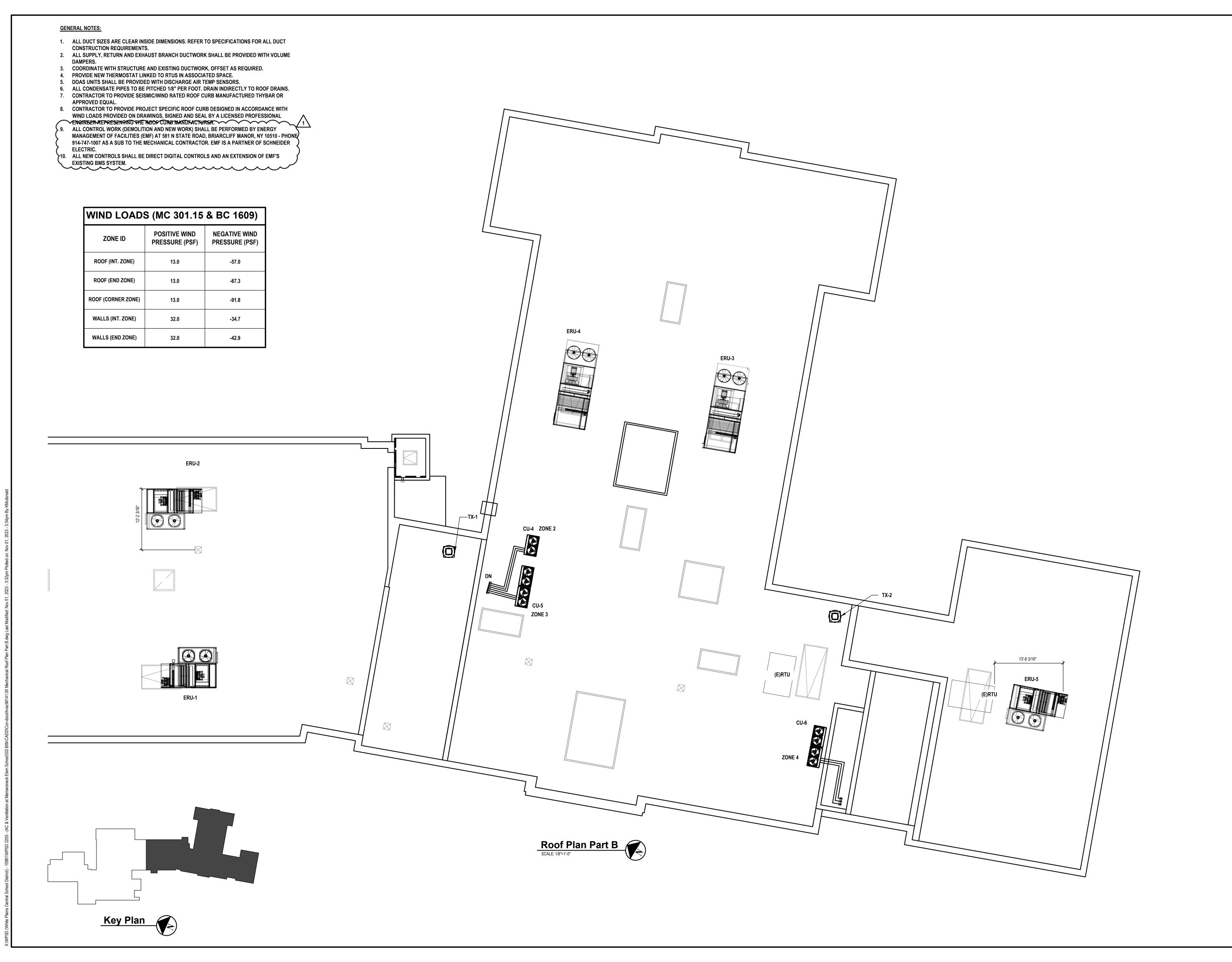
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CONDITIONING

FINAL BID DOCUMENT

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MECHANICAL ROOF PLAN PART A

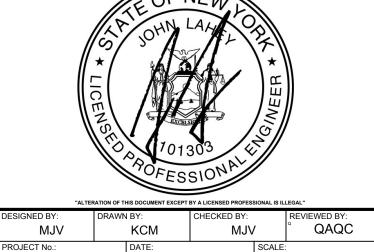
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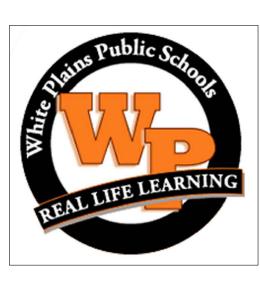


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	MJV		KCM	MJ∖	′	° QAQC					
	PROJECT No.: WPSD 220	5	OCTOB	ER 2023	SCALE						
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White Plains City

School District

AC and Ventilation Upgrades at Mamaroneck Elementary School



7 Nosband Ave. White Plains, NY 10605

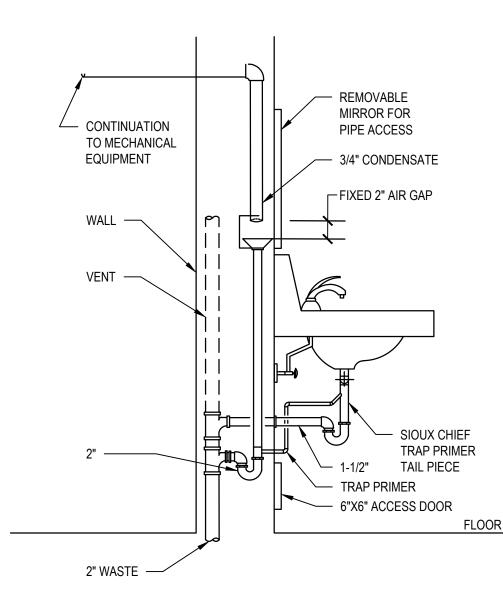
SED PROJECT CONTROL NO. 66-22-00-01-0-010-017

CONTRACT H HEATING VENTILATION AND AIR CONDITIONING

FINAL BID DOCUMENT

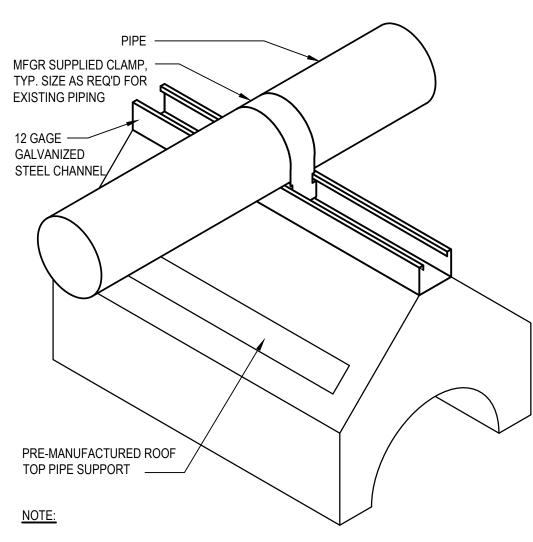
MECHANICAL ROOF PLAN PART B

M141.00



Condensate Indirect Waste

SCALE: NTS

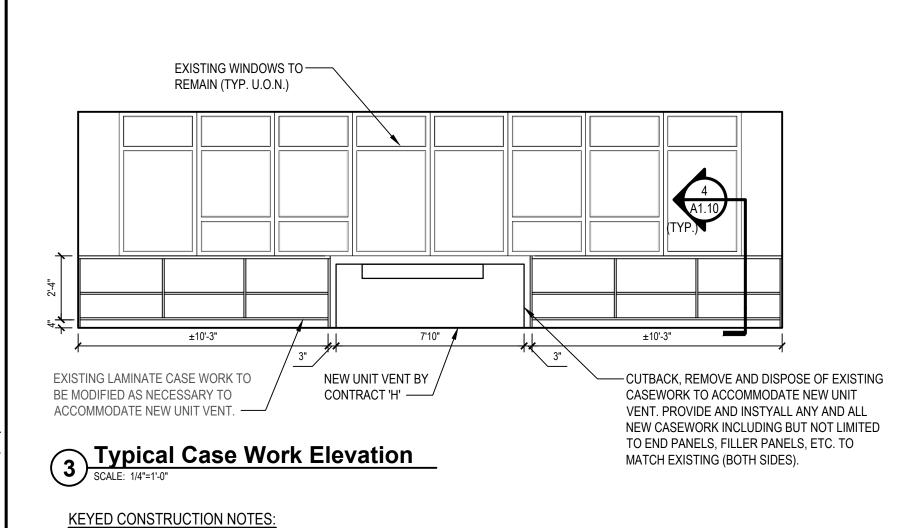


1. PIPE SUPPORTS SHALL BE INSTALLED A MINIMUM OF 6'-0" O.C. & AT EACH

CHANGE OF DIRECTION OF PIPING. 2. PROVIDE PIPE SUPPORTS IN SERIES (WIDTHS) AS REQUIRED TO SUPPORT ALL NEW PIPING.

3. HEIGHT OF PIPE SUPPORT TO VARY AS REQUIRED BASED ON HEIGHT OF EXISTING PIPING & ROOF PITCH.

Typical Pipe Blocking Detail SCALE: NTS



EXISTING WINDOWS TO REMAIN (TYP. U.O.N.) — EXISTING 1 1/2" THICK LAMINATE TOP 2'-6" **EXISTING LAMINATE** CASEWORK -**EXISTING 1" THICK** ADJUSTABLE LAMINATE SHELF ---EXISTING BLOCKING TO REMAIN -Typical Case Work Detail

UNION TYP. - PARABOLIC BALANCING/ SHUT-OFF VALVE WITH TEST PORTS AND MEMORY HOT WATER RETURN FIN TUBE RADIATOR VALVED PRESSURE GAUGE CONNECTION - DRAIN WITH HOSE CONNECTION

- TWO-WAY MODULATING

CONTROL VALVE

ADJUSTABLE JOINT

THERMOMETER TYP.

- 1. ARRANGE PIPING TO ALLOW FOR FIN TUBE RADIATOR REMOVAL
- 2. USE THIS DETAIL WHEN COIL FIN TUBE RADIATOR IS NOT AN ISSUE.

Fin Tube Radiator Piping Diagram - Two Way Control Valve

SCALE: NTS

ADDITIONAL INFORMATION.



PROVIDE AND INSTALL NEW VERTICAL FLOOR-MOUNTED UNIT VENTILATOR (UV) WITH NEW DDC CONTROLS, NEW DDC THERMOSTAT, LOUVER, AND WALL SLEEVE. RECONNECT WITH NEW PIPING (SEE UNIT VENTILATOR PIPING DETAIL)

INCLUDING NEW DDC CONTROL VALVE, ETC. RECONNECT ANY FIN-TUBE RADIATION (FT) PIPING BRANCHES OR

CONTROL INTERLOCKS (FT CONTROL VALVE AND SHARED UV THERMOSTAT). SEE DETAIL 3 AND 4 ON THIS SHEET FOR

- NEW UNIT VENT

BY CONTRACT 'H'



- ALL DEMOLITION WORK SHALL BE IN COMPLIANCE WITH ALL FEDERAL AND NEW YORK STATE APPLICABLE BUILDING AND LIFE AND SAFETY
- THE CONTRACTOR SHALL PROTECT ALL PORTIONS OF THE EXISTING BUILDING WHERE NEW WORK IS TO BE COMPLETED FROM DUST, WEATHER INCLEMENCY AND FREEZING. PROVIDE DUST FREE BARRIER PARTITIONS DURING DEMOLITION TO PREVENT DEBRIS FROM ENTERING NON-WORK AREAS. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING STRUCTURE OR BUILDING CONTENTS
- THE CONTRACTOR ACCESS SHALL BE AS CALLED OUT ON SHEET GO.O. THE CONTRACTOR SHALL ADEQUATELY PROTECT ALL EXISTING FINISHES SCHEDULED TO REMAIN ALONG THE ACCESS ROUTE AND ADJOINING SURFACES OUTSIDE THE CONTRACT AREA OR SCOPE OF WORK FROM DAMAGE DURING THE PROJECT DURATION. THE CONTRACTOR SHALL BE RESPONSIBLE TO RESTORE EXISTING CONDITIONS AND/OR FINISHES DAMAGED DURING CONSTRUCTION INCLUDING PATCHING AND PAINTING AS REQUIRED AND DEEMED NECESSARY BY THE ARCHITECT AT NO ADDITIONAL COST TO
- THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL CONSTRUCTION DEBRIS AND UNWANTED MATERIAL OFF SITE IN ACCORDANCE WITH ALL FEDERAL AND NEW YORK STATE APPLICABLE BUILDING AND LIFE AND SAFETY REGULATIONS.
- THE CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE ADJOINING SURFACES AND FINISHES DURING DEMOLITION. THE CONTRACTOR SHALL PATCH AND REPAIR ALL ADJACENT SURFACES DAMAGED DURING DEMOLITION . CONTRACTOR SHALL MATCH ALL ADJACENT FINISHES.
- OVER-DEMOLITION SHALL BE ALLOWED PROVIDED THAT ALL SURFACES SHALL BE REBUILT TO MATCH MATERIALS, STRUCTURAL INTEGRITY AND APPEARANCE OF THOSE WHICH WERE REMOVED AND IN CONFORMANCE WITH CONTRACT DOCUMENTS AND AT NO ADDITIONAL COST TO THE OWNER.
- REMOVE ALL ITEMS THAT WILL BE ABANDONED AS A RESULT OF THE WORK BEING PERFORMED.
- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND QUANTITIES OF ALL ITEMS PRIOR TO BID.
- COORDINATE THE WORK OF THE DEMOLITION DRAWING WITH ALL CONSTRUCTION DRAWINGS AND DOCUMENTS.
- 10. THIS DRAWING IS A GENERAL LIST OF DEMOLITION ITEMS AND IS NOT EVERY ITEM REQUIRED FOR DEMOLITION. CONTRACTOR SHALL PROVIDE ALL DEMOLITION REQUIRED TO PERFORM ALL WORK INDICATED WITHIN THE PROJECT DRAWINGS AND SPECIFICATIONS AND TO PREPARE ALL AREAS FOR THE CONSTRUCTION WORK.

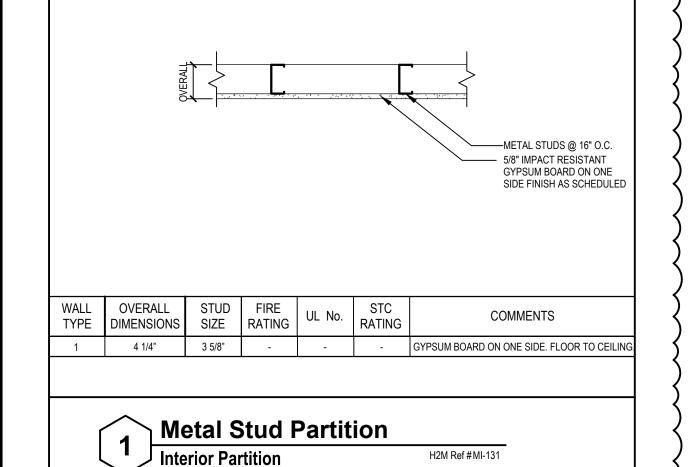
WALL CHASE KEY NOTES:

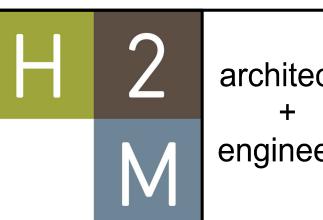
EXISTING WALL FINISHES SHALL REMAIN IN PLACE U.N.O.. THE CONTRACTOR SHALL PATCH AND REPAIR ALL WALLS, FLOORING AND CEILINGS IN AREA OF WORK TO MATCH ADJACENT FINISHES AND PREPARE NEW CONSTRUCTION.

MANUAL VENT

- EXISTING FLOORING SHALL REMAIN IN PLACE U.N.O.. EXISTING WALL BASE SHALL BE REMOVED AND LEGALLY DISPOSED OF. PATCH AND PREPARE EXISTING SURFACES FOR NEW CONSTRUCTION AND FINISHES.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL % IMPACT RESISTANT GYPSUM WALL BOARD ON 3-5/8" GALVANIZED METAL STUD RAMING @ 16" O.C. TO UNDERSIDE OF DECK TO FINISHED FLOOR PER PARTITION TYPE 1 ON THIS SHEET. THE CONTRACTOR SHALL ALIGN AND PREPARE NEW AND EXISTING WALL TO PLUMB AS REQUIRED FOR COMPLETE AND PROPER INSTALLATION OF NEW TILE AND FINISHES.

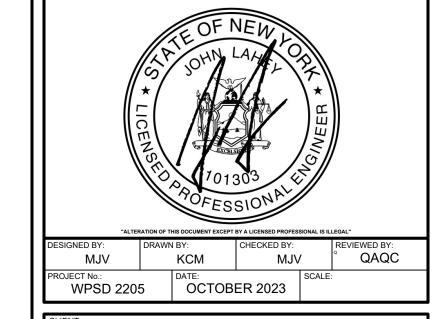
CONTRACTOR SHALL COORDINATE WITH 'E' DRAWINGS REGARDING INSTALLATION OF NEW ITEMS THROUGHOUT SPACE. CONTRACTOR SHALL PATCH AND PREPARE EXISTING AND NEW SLAB/FLOORING, WALL AND CEILING OPENINGS. SEE THIS SHEET FOR DETAILS





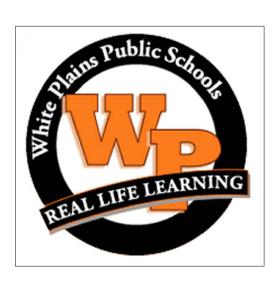
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5.75	DECODIBEION
DATE	DESCRIPTION
10-16-23	FINAL BID DOCUMENT
11-01-23	ADDENDUM #1



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

HVAC DETAILS (3 of 3)

M502.00

6 Typical Chase Detail
SCALE: NTS

						PERFORMAN	NCE/ CONSTRUC	TION REQUIREME	NTS							BASIS (OF DESIGN INFOR	MATION				
		SUPPL	Y FAN				COOLING COIL	-			HEATIN	G COIL						EL	ECTRICAL DATA	4		
QUIPMENT	QUANTITY			OUTSIDE		TOTAL	SENSIBLE	AIR	DATA	- TOTAL	AIR [DATA	STEAM COIL DATA			NOMINAL DIMENSIONS	NOMINAL				MECHANICAL	
NO.		AIRFLOW (CFM)	HP	AIRFLOW (CFM)	REFRIGERANT TYPE	CAPACITY (MBH)	CAPACITY (MBH)	ENT. DB/WB (°F)	LVG. DB/WB (°F)	CAPACITY (MBH)	ENT. DB (°F)	LVG. DB (°F)	PRESSURE (PSIG)	MNF	MODEL NO.	L" x W" x H" (EXCLUDING LEV KIT)	OPERATING WEIGHT (LBS.)	VOLTS/PHASE	MCA	MOCP	NOTES	NOTES
UV-15B	1	999	1/3	221	R-410A	33.2	24.9	80 / 67	57.1 / 56.3	58.5	51	105	3.0	DAIKIN	UAVS9H10	74"x16.63"x30.13"	425	115 / 1	6.3	15	1-18	6,7,10,12,14
UV-17	1	1474	1/3	401	R-410A	53.7	40.3	80 / 67	54.8 / 54.8	85.5	51	104.4	3.0	DAIKIN	UAVS9H15	98"x16.63"x30.13"	570	115 / 1	6.3	15	1-18	6,7,10,12,14
UV-19	1	1474	1/3	441	R-410A	53.7	40.3	80 / 67	54.8 / 54.8	85.5	51	104.4	3.0	DAIKIN	UAVS9H15	98"x16.63"x30.13"	570	115 / 1	6.3	15	1-18	6,7,10,12,14
UV-21	1	999	1/3	205	R-410A	33.2	24.9	80 / 67	57.1 / 56.3	58.5	51	105	3.0	DAIKIN	UAVS9H10	74"x16.63"x30.13"	425	115 / 1	6.3	15	1-18	6,7,10,12,14

UNIT VEI	IT VENTILATORS - HOT WATER HEAT																								
							PERFORM	IANCE/ CONSTRU	CTION REQUIREM	MENTS									BASIS (OF DESIGN INFOR	RMATION				
		SUPPI	LY FAN				COOLING COIL	,			_		HEATING COIL						NOMINAL		EL	ECTRICAL DATA	4		
EQUIPMENT	QUANTITY			OUTSIDE		T0T41	051101015	AIR	DATA		AIR I	DATA		HOT V	WATER				DIMENSIONS	DIMENSIONS NOMINAL				MECHANICAL	
NO.	QOARTITI	AIRFLOW (CFM)	HP	AIRFLOW (CFM)	REFRIGERANT TYPE	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	ENT. DB/WB (°F)	LVG. DB/WB (°F)	TOTAL CAPACITY (MBH)	ENT. DB (°F)	LVG. DB (°F)	ENT. TEMP (°F)	LVG. TEMP (°F)	FLOW RATE (GPM)	PRESSURE DROP (FT H2O)	MNF	MODEL NO.	L" x W" x H" (EXCLUDING LEV KIT)	OPERATING WEIGHT (LBS.)	VOLTS/PHASE	MCA	MOCP	NOTES	NOTES
UV-10	1	979	1/3	342	R-410A	33.2	24.9	80 / 67	56.6 / 56	46	70	113.4	180	133.9	2.0	.85	DAIKIN	UAVS9H10	74"x16.63"x30.13"	425	115 / 1	6.3	15	1-17	6,7,10,12,14
UV-12	1	979	1/3	387	R-410A	33.2	24.9	80 / 67	56.6 / 56	46	70	113.4	180	133.9	2.0	.85	DAIKIN	UAVS9H10	74"x16.63"x30.13"	425	115 / 1	6.3	15	1-17	6,7,10,12,14
UV-13A	1	979	1/3	281	R-410A	33.2	24.9	80 / 67	56.6 / 56	46	70	113.4	180	133.9	2.0	.85	DAIKIN	UAVS9H10	74"x16.63"x30.13"	425	115 / 1	6.3	15	1-17	6,7,10,12,14
UV-13B	1	979	1/3	281	R-410A	33.2	24.9	80 / 67	56.6 / 56	46	70	113.4	180	133.9	2.0	.85	DAIKIN	UAVS9H10	74"x16.63"x30.13"	425	115 / 1	6.3	15	1-17	6,7,10,12,14
UV-100	1	979	1/3	220	R-410A	33.2	24.9	80 / 67	56	46	70	113.4	180	133.9	2.0	.85	DAIKIN	UAVS9H10	74"x16.63"x30.13"	425	115 / 1	6.3	15	1-17	6,7,10,12,14
UV-101	1	1444	1/3	434	R-410A	53.7	40.3	80 / 67	54.3 / 54.3	62.9	70	110.1	180	117.1	2.0	.65	DAIKIN	UAVS9H15	98"x16.63"x30.13"	570	115 / 1	6.3	15	1-17	6,7,10,12,14
UV-102	1	1444	1/3	415	R-410A	53.7	40.3	80 / 67	54.3 / 54.3	62.9	70	110.1	180	117.1	2.0	.65	DAIKIN	UAVS9H15	98"x16.63"x30.13"	570	115 / 1	6.3	15	1-17	6,7,10,12,14

ECHANICAL NOTES:

GALVANIZED DRAIN PAN

COLD WEATHER DAMPER ASSEMBLY

HIGH EFFICIENCY ECM MOTOR

REAR OUTSIDE AIR, BOTTOM RETURN AIR

PROVIDE PNEUMATIC CONTROLS TO TIE INTO EXISTING

PROVIDE PNEUMATIC CONTROLS TO TIE INTO EXISTING

GALVANIZED DRAIN PAN

2" MERV 13 FILTER

COLD WEATHER DAMPER ASSEMBLY

HIGH EFFICIENCY ECM MOTOR

REAR OUTSIDE AIR, BOTTOM RETURN AIR

STEAM 2 WAY MODULATING VALVE/ACTUATOR

TOP DISCHARGE BAR STOCK STEEL GRILLE

6. 2" MERV 13 FILTER

11. PROVIDE WITH FREEZE STAT

15. REUSE EXISTING PNEUMATIC LINES

PROVIDE ECONOMIZER

12. CONTRACTOR RESPONSIBILITY TO CONFIRM QUANTITIES

13. PROVIDE NEW WALL MOUNTED PNEUMATIC THERMOSTAT

16. PROVIDE SUBBASE, MATCH HEIGHT OF EXISTING CASEWORK.

17. OUTSIDE AIR VALUES IN THIS SCHEDULE ARE MAXIMUM VALUES.

BALANCER TO BALANCE UNIT VENTILATOR OUTSIDE AIR TO

TOP DISCHARGE BAR STOCK STEEL GRILLE

FALSE BACK 9. SINGLE ROW HOT WATER COIL

10. PROVIDE WITH FREEZE STAT

11. CONTRACTOR RESPONSIBILITY TO CONFIRM QUANTITIES 12. PROVIDE WALL MOUNTED PNEUMATIC THERMOSTAT

13. PROVIDE ECONOMIZER

14. REUSE EXISTING PNEUMATICS

15. PROVIDE SUBBASE, MATCH HEIGHT OF EXISTING CASEWORK.

16. OUTSIDE AIR VALUES IN SCHEDULE ARE MAXIMUM VALUES. BALANCER TO BALANCE UNIT VENTILATOR OUTSIDE AIR TO

VALUES ON PLAN/VENTILATION SCHEDULE.

17. FACE AND BYPASS CONTROL

INTEGRAL DISCONNECT SWITCH [FACTORY WIRED]

INTEGRAL CONDENSATE PUMP [UNPOWERED]

INTEGRAL CONDENSATE PUMP [POWERED]

LOW VOLTAGE CONTROLS

INTEGRAL UNPOWERED RECEPTACLES [FIELD WIRED]

INTEGRAL POWERED RECEPTACLES [FACTORY WIRED]

INTEGRAL DISCONNECT SWITCH [FIELD WIRED]

INTEGRAL DISCONNECT SWITCH [FACTORY WIRED]

INTEGRAL UNPOWERED RECEPTACLES [FIELD WIRED]

INTEGRAL POWERED RECEPTACLES [FACTORY WIRED]

INTEGRAL CONDENSATE PUMP [UNPOWERED] INTEGRAL CONDENSATE PUMP [POWERED]

LOW VOLTAGE CONTROLS

LINE VOLTAGE CONTROLS

INTEGRAL STARTERS

MOTORIZED DAMPERS [24VAC] MOTORIZED DAMPERS [120VAC]

12. SINGLE POINT POWER FEED

13. INDOOR UNIT POWERED FROM OUTDOOR UNIT 14. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH

15. ON SAME POWER FEED AS ASSOCIATED INDOOR UNIT

	SYSTEM WITH ENERGY	
PACKAGED ROOF FOR	SISIEW WITH ENERGI	RECOVER I WITEEL

														PERF	ORMANO	E/ CON	STRUCTIO	N REC	QUIREMEN	ITS													ВА	SIS OF DESIGN	INFORMA [*]	TION				
			SUPPL	Y FAN		EX	HAUST	FAN		ERV							COOLIN	G COIL								HEATING									NOMINAL	ELE	CTRICAL DAT			
EQUIPMENT NO.	LOCATION	SUPPLY AIR (CFM)	ВНР	OTOR HP	(N.W.C)	(HAUST AIR (CFM) (ONOMIZER]	ВНР		EXT. S.P. (IN W.G)	MOTOR	OUTSIDE AIR FLOW (CFM)	, NOMINAL TONNAGE	REFR. TYPE	TOTAL SAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	EER		A F WB DB F) (RA ENT		HGRH DB/WB (°F)	UNIT LVG TEMP (°F)	HEAT PUMP CAPACITY (MBH	OA DB/WB (°F)	HEAT PUMP RA DB/WB (°F) RA (°F)		OP 47 F ELE CC	T	CTRIC COIL HEAT CAPACITY (MBH)	COIL TE	NIT VG EMP °F)	MNF N	MODEL NO.	NOMINAL DIMENSIONS LxWxH (IN.)	OPERATION WEIGHT (LBS)	LVOLTELL	FLA MCA	MOCP	MECHANICAL NOTES	ELECTRICAL NOTES
ERU-1	SEE PLANS	2200	2.08	4	2	1482	.91	4	1.5	0.17	2200	7	R-410A	86.1	63.8	12.6	18.8 88	72 75	/ 62 79.7/6	6.1 53.2/53.1	70 / 59.5	53.2	44.8	10 / 70	70 / 50 46.7	65.4 3.	.58	18	61.4	25.8 7	2.5 DA	AIKIN	DPS007A	111x96.5x56.8	2424	208 / 3	94.6 110.1	1 125	1-9, 11-17, 19	2,4,7,10,11
ERU-2	SEE PLANS	1800	1.76	4	2	1404	.81	4	1.5	0.17	1800	7	R-410A	81.0	56.7	12.6	18.8 88	72 75	/ 62 78.7/6	5.3 49.8/49.8	70/57.8	49.8	43.8	10 / 70	70 / 50 51.7	73.9 3.	.58	18	61.4	31.4 8	3.1 DA	AIKIN	DPS007A	111x96.5x56.8	2424	208 / 3	94.6 110.1	125	1-9, 11-17, 19	2,4,7,10,11
ERU-3	SEE PLANS	3200	4.12	5	2	3000	1.95	4	1.5	0.17	3200	16	R-410A	162	108.5	11.5	20.5 88	72 75	/ 62 79.3/6	5.8 48.3/48.2	70/57.1	48.3	95.7	10 / 70	70 / 50 48.7	76.1 3.	.55	30	102.4	29.5 7	8.2 DA	AIKIN	DPS016A	182.3x76.5x82. 5	4139	208 / 3	167.7 200.3	225	1-9, 11-17, 19	2,4,7,10,11
ERU-4	SEE PLANS	3200	4.13	5	2	2496	1.47	4	1.5	0.17	3200	16	R-410A	167.2	106.3	11.5	20.5 88	72 75	/ 62 80.4/6	7.5 50.0/50.0	70/58.0	50	95.7	10 / 70	70 / 50 47.0	74.4 3.	.55	30	102.4	29.5 7	6.5 DA	AIKIN	DPS016A	182.3x76.5x82. 5	4139	208 / 3	167.7 200.3	3 225	1-9, 11-17, 19	2,4,7,10,11
ERU-5	SEE PLANS	1900	1.83	4	2	1482	.86	4	1.5	0.17	1900	7	R-410A	82.1	58.4	12.6	18.8 88	72 75	/ 62 78.7/6	5.4 50.6/50.6	70/58.2	50.6	44.0	10 / 70	70 / 50 51.2	72.4 3.	.58	18	61.4	29.8 8	1.0 DA	AIKIN	DPS007A	111x96.5x56.8	2424	208 / 3	94.6 110.1	1 125	1-10, 12-18	2,4,7,10,11

ECHANICAL NOTES:

4" PLEATED MERV-8 FILTERS. HINGED ACCESS DOORS

DIRTY FILTER INDICATOR SWITCH.

SUPPLY FAN STATUS SWITCH

HOT GAS REHEAT COIL.

PHASE LOSS PROTECTION

VERTICAL SUPPLY/RETURN DUCTWORK CONFIGURATION.

PROVIDE NEW PROGRAMMABLE THERMOSTAT.

MANUFACTURER TO PROVIDE BACNET INTERFACE CARD STAINLESS STEEL DRAIN PAN AND CONDENSATE OVERFLOW SWITCH, INTERLOCK TO TURN OFF UNIT. HORIZONTAL SUPPLY/RETURN DUCTWORK CONFIGURATION.

13. ENERGY RECOVERY WHEEL

14. SCROLL COMPRESSOR FOR ALL CIRCUITS

MANUFACTURER TO PROVIDE FACTORY INSTALLED UNIT CONTROLLER

SUPPLY AIR FLOW MONITORING

17. SUPPLY AND EXHAUST FAN VFD
18. PROVIDE CURB ADAPTER

19. MOUNT ON EXISTING DUNNAGE.

ELECTRICAL NOTES: INTEGRAL DISCONNECT SWITCH [FIELD WIRED]

INTEGRAL DISCONNECT SWITCH [FACTORY WIRED]

INTEGRAL UNPOWERED RECEPTACLES [FIELD WIRED] INTEGRAL POWERED RECEPTACLES [FACTORY WIRED]

INTEGRAL CONDENSATE PUMP [UNPOWERED] INTEGRAL CONDENSATE PUMP [POWERED]

LOW VOLTAGE CONTROLS

LINE VOLTAGE CONTROLS

INTEGRAL STARTERS

MOTORIZED DAMPERS [120VAC]

MOTORIZED DAMPERS [24VAC]

11. MOTORIZED DAMPERS [120VAC]

13. INDOOR UNIT POWERED FROM OUTDOOR UNIT

15. ON SAME POWER FEED AS ASSOCIATED INDOOR UNIT

14. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH

SINGLE POINT POWER FEED

11. SINGLE POINT POWER FEED

12. INDOOR UNIT POWERED FROM OUTDOOR UNIT

14. ON SAME POWER FEED AS ASSOCIATED INDOOR UNIT

13. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH

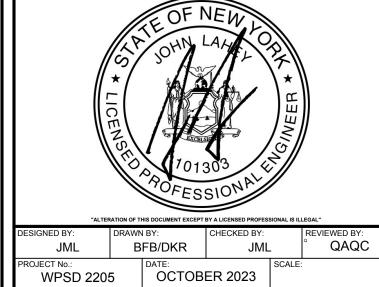


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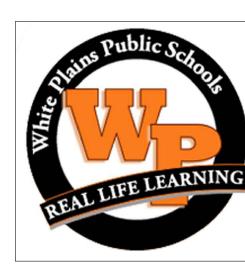
ONSULTANTS:		
MARK	DATE	DESCRIPTION

MARK	DATE	DESCRIPTION
	10-16-23	FINAL BID DOCUMENT
1	11-01-23	ADDENDUM #1



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

MECHANICAL SCHEDULES [3 of 4]

M602.00