

White Plains City School District

AC and Ventilation Upgrades at Ridgeway Elementary School

225 RIDGEWAY

WHITE PLAINS, NY 10605

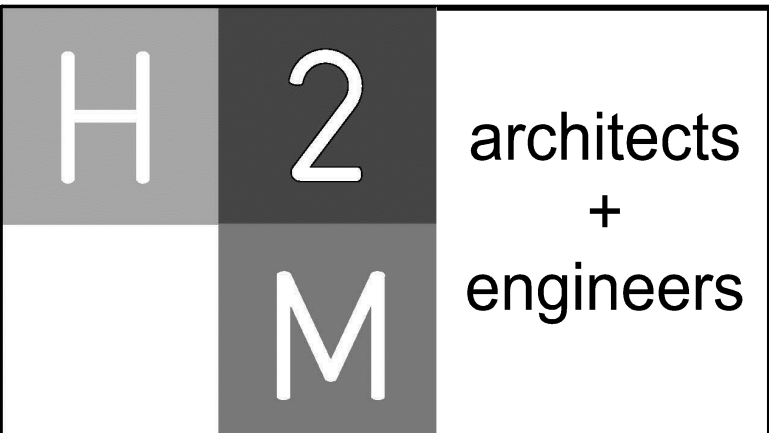
SED PROJECT CONTROL NUMBER 66-22-00-01-0-014-017

CONTRACT H - HEATING VENTILATION AND AIR CONDITIONING

CONTRACT E - ELECTRICAL CONSTRUCTION

ABBREVIATIONS			GENERAL NOTES			DRAWING LIST			STAGING PLAN		
AB	Anchor Bolt	FIN	Finish	<div>1. ALL WORK SHALL COMPLY WITH THE 2015 INTERNATIONAL BUILDING CODE WITH 2017 NEW YORK STATE SUPPLEMENT AS WELL AS THE NEW YORK STATE EDUCATION DEPARTMENT MANUAL OF PLANNING STANDARDS, AND ALL OTHER APPLICABLE CODES, LAWS, STATUTES AS REQUIRED.</div> <div>2. ALL NOTES APPEARING HEREIN, WITH THOSE ON VARIOUS DRAWINGS SHALL APPLY TO ALL DRAWINGS AND FORM PART OF THE CONTRACT DOCUMENTS.</div> <div>3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL DIMENSIONS, SQUARE FOOTAGES, LOCATIONS AND QUANTITIES OF ALL ITEMS AND/OR SPACES WHETHER INDICATED IN THE DRAWINGS OR NOT.</div> <div>4. DO NOT SCALE MEASURE ANY DRAWING. VERIFY THE FIGURES, DIMENSIONS AND DESIGN INTENTION SHOWN ON THE DRAWINGS BEFORE BEGINNING LAYOUT OF THE WORK AND REPORT ANY ERRORS, INACCURACIES, OR CONFLICTS TO THE ARCHITECT/ENGINEER IN WRITING BEFORE BEGINNING ANY WORK.</div> <div>5. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, LAWS AND STATUTES AS REQUIRED. STRICTLY ADHERE TO MANUFACTURER'S PRINTED INSTRUCTIONS.</div> <div>6. VERIFY EXACT LAYOUT COMPATIBILITY WITH ALL EXISTING CONDITIONS BEFORE BEGINNING WORK.</div> <div>7. DISTURB ONLY THOSE AREAS OF THE SITE AFFECTED BY RENOVATION, UNLESS NOTED OTHERWISE. PROTECT ALL OTHER AREAS. CONTRACTORS SHALL BE RESPONSIBLE FOR ALL PATCH AND REPAIR OF EXISTING FINISHES WHICH ARE DAMAGED DURING CONSTRUCTION.</div> <div>8. EACH CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF 2017 ANSI A117.1 AND PROVIDE WHERE APPLICABLE ADA COMPLIANT BUILDING COMPONENTS.</div> <div>9. THE OWNER RESERVES THE RIGHT AT ALL TIMES TO DELIVER, PLACE AND INSTALL EQUIPMENT AND FURNISHINGS AS THE WORK PROGRESSES SO LONG AS THERE IS NOT A CONFLICT WITH THE CONTRACTORS.</div> <div>10. THE CONTRACTOR SHALL MAINTAIN AT THE SITE ONE RECORD COPY OF ALL DRAWINGS, SPECIFICATIONS AND APPROVED SHOP DRAWINGS AND APPROVED SAMPLES MARKED CURRENTLY TO RECORD ALL CHANGES DURING CONSTRUCTION.</div> <div>11. 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 EXECUTION.</div>	INFORMATIONAL DRAWINGS						
ACI	Air Conditioning	FR	Fire Retardant		G.000.00	GENERAL NOTES, MAPS, DRAWING LIST, STAGING PLAN, EXIT PLAN & LEGENDS					
ACST	Acoustic	FTG	Footing		G100.00	BUILDING CODE NOTES, FIRST FLOOR PLAN (REFERENCE ONLY)					
ACT	Acoustical Ceiling Tile	GA	Gauge		MECHANICAL DRAWINGS						
ADU	Access Door	GWB	Gypsum Wall Board		M000.00	HVAC GENERAL NOTES AND LEGENDS					
ADJ	Adjustable	GYP	Gypsum Board		MD10.00	MECHANICAL DEMOLITION FLOOR PLAN PART A					
A/E	Architect/Engineer	HC	Handicapped		MD11.00	MECHANICAL DEMOLITION FLOOR PLAN PART B					
AFF	Above Finish Floor	HM	Hollow Metal		MD12.00	MECHANICAL DEMOLITION FLOOR PLAN PART C					
ALUM	Aluminum	HOR	Horizontal		M100.00	MECHANICAL FLOOR PLAN A					
ANCH	Anchor	HW	Hot Water		M110.00	MECHANICAL FLOOR PLAN B					
ANSI	American National Standards Institute	INSUL	Insulation/Insulating		M120.00	MECHANICAL FLOOR PLAN C					
APA	Access Panel	INT	Interior	M500.00	MECHANICAL DETAILS						
APPROX	Approximately	LAV	Lavatory	M600.00	MECHANICAL SCHEDULES SHEET 1						
ASPH	Asphalt	LDR	Leader	M601.00	MECHANICAL SCHEDULES SHEET 2						
ASTM	American Society for Testing & Materials	LT	Light	ELECTRICAL DRAWINGS							
AWS	American Welding Society	MAX	Maximum	E.001.00	ELECTRICAL LEGENDS						
B	Balance	MECH	Mechanical	ED 100.00	ELECTRICAL FIRST FLOOR FULL BUILDING DEMOLITION PLAN						
BAL	Bulletin Board	MISC	Miscellaneous	ED 200.00	ELECTRICAL PARTIAL FIRST FLOOR DEMOLITION						
BB	Board	MO	Masonry Opening	ED 201.00	ELECTRICAL PARTIAL FIRST FLOOR DEMOLITION						
BD	Building	MR	Moisture Resistant	ED 202.00	ELECTRICAL PARTIAL FIRST FLOOR DEMOLITION						
BLDG	Block	NIC	Not in Contract	E 100.00	ELECTRICAL FIRST FLOOR BUILDING POWER PLAN						
BLK	Blocking	NTS	Not to Scale	E 200.00	ELECTRICAL FIRST FLOOR HVAC POWER PLAN PART A						
BLKG	Beam	OC	On Center	E 201.00	ELECTRICAL FIRST FLOOR HVAC POWER PLAN PART B						
B.O.	Bottom Of	OD	Outside Diameter	E 202.00	ELECTRICAL PARTIAL FIRST FLOOR HVAC POWER PLAN C						
BOL	Bottom Of Lintel	PLYWD	Plywood	E 300.00	ELECTRICAL DETAILS						
BOT	Bottom	PSF	Pounds per Square Foot	E 400.00	ELECTRICAL SINGLE LINE DIAGRAMS						
CEL	Ceiling	PSI	Pounds per Square Inch	E 500.00	ELECTRICAL SCHEDULES						
CEM	Cement	PTD	Painted	E 600.00	ELECTRICAL SWITCHBOARD ELEVATION						
CER	Ceramic	PVC	Polyvinyl Chloride	STAGING NOTES							
CLO	Closet	R	Radius or Riser	1. POST SIGNS INDICATING CONSTRUCTION AREA AND CONSTRUCTION EMPLOYEE ENTRANCE.							
CMU	Concrete Masonry Unit	RCP	Reflected Ceiling Plan	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 BE LOCKED AT ALL TIMES, EXCEPT FOR WHEN A WORKER IS IN ATTENDANCE TO PREVENT UNAUTHORIZED ENTRY.							
COL	Column	RD	Roof Drain	3. 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.							
CONC	Concrete	REINF	Reinforced	4. CONTRACTOR SHALL RESTORE ALL STAGING AREAS TO PRE-CONSTRUCTION CONDITION, UPON COMPLETION OF WORK IN THAT AREA.							
CONST	Construction	ROOM	Room								
CONT	Continuous	RO	Rough Opening								
CORR	Corridor	SIM	Similar								
CPT	Carpet	SPEC	Specifications								
DS	Downspout	SS	Stainless Steel								
DW	Dishwasher	STL	Steel								
DWG	Drawing	TEMP	Temperature								
EA	Each	TER	Terrazzo								
ELEC	Elevation	THK	Thick								
ELEV	Electric/Electrical	TYP	Typical								
EP	Elevator	UTIL	Utility								
EP	Electrical Panel	VB	Vapor Barrier								
EPY	Epoxy Coating	VCT	Vinyl Composition Tile								
EQU	Equal	VERT	Vertical								
EQUIP	Equipment	VTR	Vent Thru Roof								
EXIST	Existing	WC	Water Closet								
EXIT	Exit	WH	Water Heater								
FAI	Fresh Air Intake	WWF	Welded Wire Fabric								
F.C.	Fire Code										
FD	Floor Drain										

LOCATION MAPS		SYMBOLS LEGEND		UNIFORM SAFETY STANDARDS - FOR SCHOOL CONSTRUCTION AND MAINTENANCE PROJECTS			
				<p>1. "THE OCCUPIED PORTION OF ANY SCHOOL BUILDING SHALL ALWAYS COMPLY WITH THE MINIMUM REQUIREMENTS NECESSARY TO MAINTAIN A CERTIFICATE OF OCCUPANCY."</p> <p>2. SCHOOL AREAS TO BE DISTURBED DURING RENOVATION OR DEMOLITION ACTIVITIES HAVE BEEN TESTED AND FOUND TO CONTAIN ASBESTOS. THESE AREAS WILL BE ABATED IN ACCORDANCE WITH SPECIFICATION SECTION 028200. A COPY OF THE TEST RESULTS IS INCLUDED WITHIN THE ENVIRONMENTAL REPORT FOUND IN THE APPENDIX OF THE PROJECT MANUAL FOR THIS PROJECT.</p> <p>3. "GENERAL SAFETY AND SECURITY STANDARDS FOR CONSTRUCTION PROJECTS:</p> <p>(1) ALL CONSTRUCTION MATERIALS SHALL BE STORED IN A SAFE AND SECURE MANNER.</p> <p>(2) FENCES AROUND CONSTRUCTION SUPPLIES OR DEBRIS SHALL BE MAINTAINED.</p> <p>(3) GATES SHALL ALWAYS BE LOCKED UNLESS A WORKER IS IN ATTENDANCE TO PREVENT UNAUTHORIZED ENTRY.</p> <p>(4) DURING EXTERIOR RENOVATION WORK, OVERHEAD 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.</p> <p>(5) WORKERS SHALL BE REQUIRED TO WEAR PHOTO-IDENTIFICATION BADGES AT ALL TIMES FOR IDENTIFICATION AND SECURITY PURPOSES WHILE WORKING AT OCCUPIED SITES."</p> <p>4. "SEPARATION OF CONSTRUCTION AREAS FROM OCCUPIED SPACES: CONSTRUCTION AREAS WHICH ARE UNDER THE CONTROL OF A CONTRACTOR AND THEREFORE NOT OCCUPIED BY DISTRICT STAFF OR STUDENTS SHALL BE SEPARATED FROM OCCUPIED AREAS. PROVISIONS SHALL BE MADE TO PREVENT THE PASSAGE OF DUST AND CONTAMINANTS INTO OCCUPIED 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 EXITWAYS 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.</p> <p>(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.</p> <p>(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.</p> <p>(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."</p> <p>5. A PLAN DETAILING HOW EXITING REQUIRED BY THE APPLICABLE BUILDING CODE WILL BE MAINTAINED.</p> <p>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.</p> <p>7. A PLAN DETAILING HOW ADEQUATE VENTILATION WILL BE MAINTAINED DURING CONSTRUCTION.</p> <p>8. 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.</p> <p>"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."</p> <p>"THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF CHEMICAL FUMES, GASES, AND OTHER CONTAMINANTS 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.</p> <p>"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 OCCUPIED."</p> <p>10. "LARGE AND SMALL ASBESTOS ABATEMENT PROJECTS AS DEFINED BY 12NYCRR66 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 PHYSICALLY SEPARATED AND SEALED AT THE ISOLATION BARRIER.</p> <p>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.</p> <p>MINOR ASBESTOS PROJECTS DEFINED BY 12NYCRR66 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 ACCORDANCE WITH 12NYCRR66.</p> <p>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 026000.</p> <p>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 APPLIED.</p> <p>ALL CONTRACTORS SHALL TAKE EVERY PRECAUTION AND SHALL PROVIDE SUCH EQUIPMENT AND FACILITIES AS ARE 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 INJURED OR ILL.</p> <p>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.</p>			



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[illegible]

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PROJECT NO.: WPSD 2204		DATE: OCTOBER 2023	SCALE:

CLIENT

**White Plains City
School District**

AC and Ventilation Upgrades at Ridgeway Elementary School



**225 Ridgeway
White Plains, NY 10605**

**SED PROJECT CONTROL
NO. 66-22-00-01-0-014-017**

CONTRACT

ALL CONTRACTS







STATUS	FINAL BID DOCUMENT
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**GENERAL NOTES, MAPS,
DRAWINGS LIST, STAGING
PLAN, EXIT PLAN AND LEGENDS**

DRAWING No. **G000.00**

ABBREVIATIONS	
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
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATING
ESP	EXTERNAL STATIC PRESSURE
FAI	FRESH AIR INTAKE
FD	FLOOR DRAIN
FLA	FULL LOAD AMPS
FT. H2O	FEET OF WATER
'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
M	METER
MAX	MAXIMUM
MBH	1,000 BTU PER HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MIN	MINIMUM
MANF	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
OD	OUTER DIAMETER
OED	OPEN ENDED DUCT
'P'	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PSIG	LBS / SQUARE INCH (GAUGE PRESSURE)
RD	ROOF DRAIN
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE
SAT	SUPPLY AIR TEMPERATURE
SEER	SEASONAL ENERGY EFFICIENCY RATING
TEMP	TEMPERATURE
TG	TRANSFER GRILLE
TYP	TYPICAL
VFD	VARIABLE FREQUENCY DRIVE
W	WIDTH
WB	WET BULB
WMS	WIRE MESH SCREEN

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
	SEE AIR DEVICE SCHEDULE	BOTTOM RETURN OR EXHAUST GRILLE/REGISTER
	FC	FLEXIBLE CONNECTION
		TURNING VANES
		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
	AD	ACCESS DOOR
	FD/AD	FIRE DAMPER WITH ACCESS DOOR
	FSD/AD	FIRE SMOKE DAMPER WITH ACCESS DOOR
	FAN	FAN
		WORK TO BE REMOVED
		POINT OF DISCONNECTION FROM EXISTING
		POINT OF CONNECTION TO EXISTING

SYMBOL	ABBREV	DESCRIPTION
		CARBON MONOXIDE SENSOR
		THERMOSTAT
		DIGITAL TEMPERATURE SENSOR
		HUMIDITY SENSOR
		CARBON DIOXIDE SENSOR
		PRESSURE SENSOR

PIPING LEGEND		
SYMBOL	ABBREV	DESCRIPTION
		NEW WORK
		PIPING DOWN/ PIPING UP
		BALL VALVE WITH HOSE END CONNECTION
	TH	THERMOMETER
	U	UNION
	FPC	FLEXIBLE PIPE CONNECTION
		DIRECTION OF FLOW
	PSR	PRESSURE SAFETY AND RELIEF VALVE
	PRV	PRESSURE REDUCING VALVE
	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
	FD	FLOOR DRAIN
		AIR SEPARATOR
		STEAM TRAPS (INDICATE TYPE)
	CH	CHECK VALVE
	PG	PRESSURE GAUGE WITH GAUGE COCK
	RED	REDUCER
	CO	CLEANOUT END CAP
		PIPE GUIDE
		PIPE ANCHOR
		CAPPED PIPE
		PUMP
		WORK TO BE REMOVED
		POINT OF DISCONNECTION FROM EXISTING
		POINT OF CONNECTION TO EXISTING
	TDV	TRIPLE DUTY VALVE

- ## 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 DEVICES AND ACCURATE 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 UNDESIRABLE, 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 WITH WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF THE WORK. OBTAIN THE APPROVAL OF THE ARCHITECT/ENGINEER FOR MODIFICATIONS.
 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 APPURTEANCES 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 INSTALLATION 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 GIRDS 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 WARRANTIES/GUARANTEES ARE NOT VOIDED. USE QUALIFIED PERSONNEL IN PERFORMANCE OF THE WORK.

CONTRACT 'H' 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. 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 OPERATION.
4. FURNISH ALL LINTELS FOR DUCT AND PIPE PENETRATIONS IN INTERIOR 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'.

LEGENDS/ABBREVIATIONS NOTES

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



The logo for H2M architects + engineers is a square divided into four smaller squares. The top-left square is light gray and contains a white letter 'H'. The top-right square is dark gray and contains a white number '2'. The bottom-left square is light gray and contains a white letter 'M'. The bottom-right square is white and contains the text 'architects + engineers' in a dark gray, sans-serif font, with 'architects' on the top line, a plus sign on the second line, and 'engineers' on the third line.

H 2
architects
+
engineers
M

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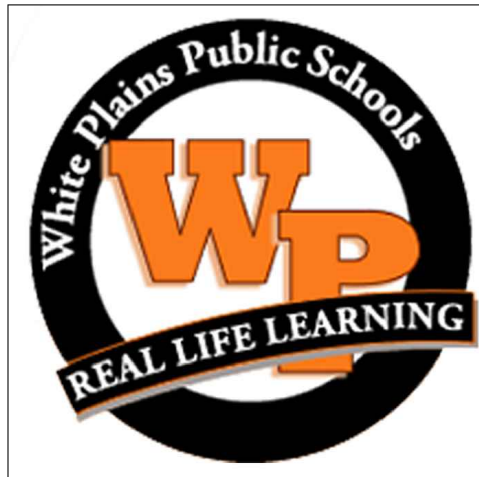
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PROJECT NO. WPSD 2204	DATE OCTOBER 2008	SCALE	SEE PLANS

CLINT

White Plains City School District

AC and Ventilation Upgrades at
Ridgeway Elementary School

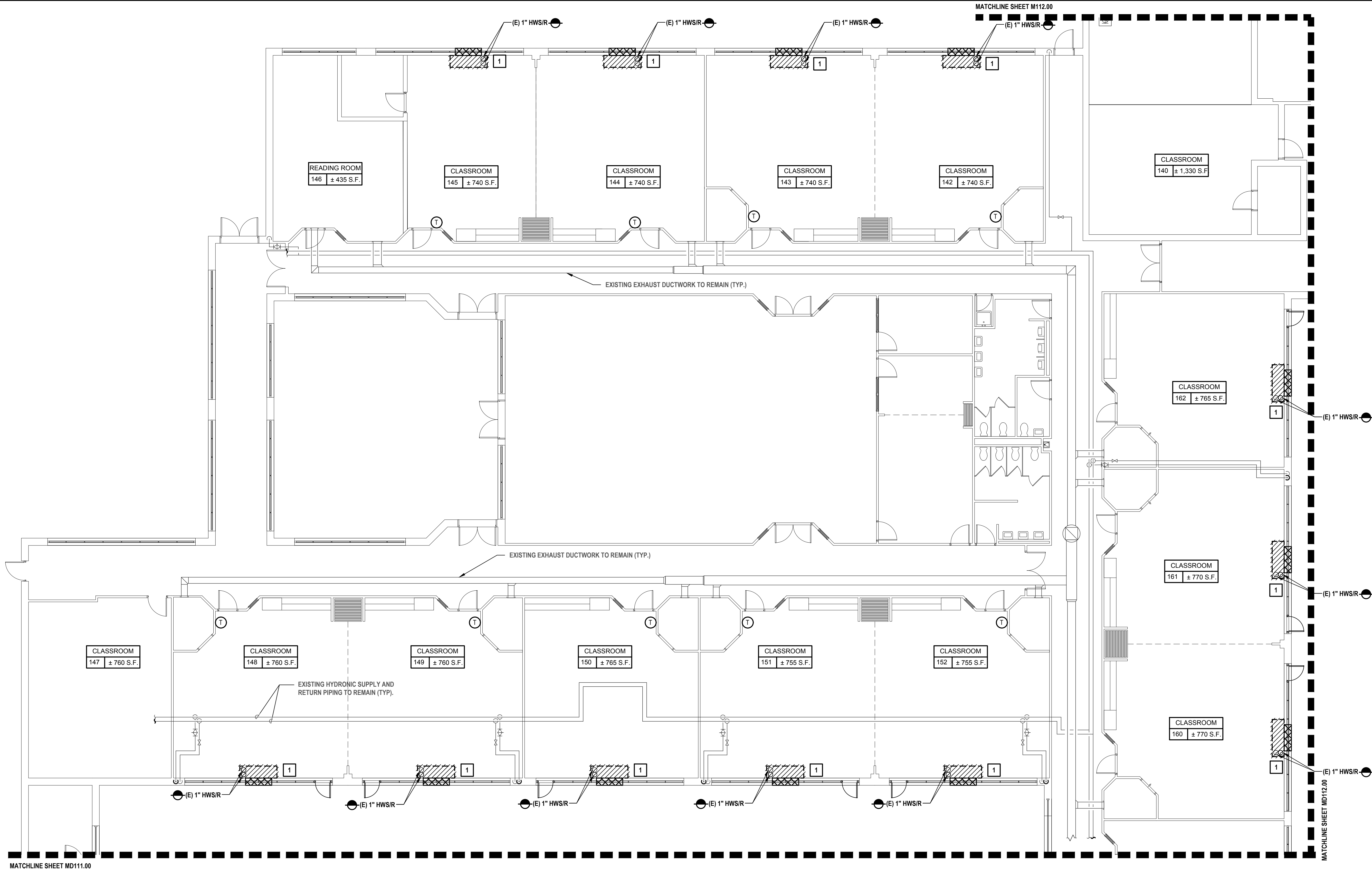


225 Ridgeway
White Plains, NY 10605

SED PROJECT CONTROL
NO. 66-22-00-01-0-014-017

CONTRACT	CONTRACT H
	HEATING VENTILATION AND AIR CONDITIONING
STATUS	FINAL BID DOCUMENT
SHEET TITLE	HVAC GENERAL NOTES AND LEGENDS
DRAWING NO.	M000.00

X:\PSD\White Plains Central School District - 10851\PSD 2204 - AC & Ventilators at Ridgeway Elem School\02 BIM\CADD\Copy\psd\mechanical\DEMOLITION FLOOR PLAN PART A.dwg Last Modified: Nov 12, 2022 5:05pm Plotted on: Sep 28, 2023 9:03am By: bsadell



1 First Floor Plan Part A
SCALE: 1/8"=1'-0"

GENERAL NOTES:

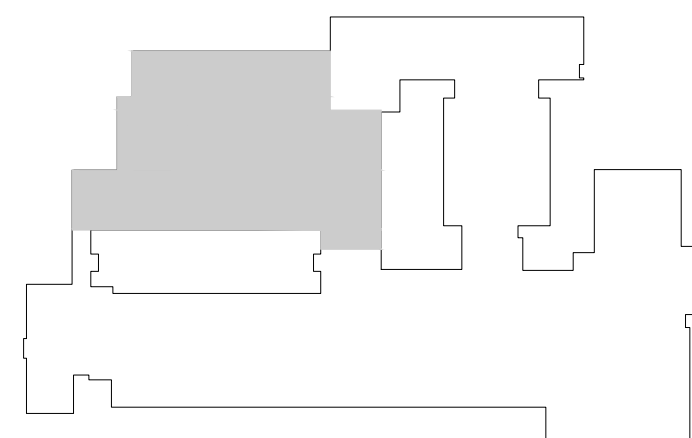
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- PATCH/SEAL ALL OPENINGS AND PENETRATIONS TO MATCH SURROUNDING FINISH(ES).
- ALL EXISTING EXHAUST DUCTWORK, GRILLES, ETC TO REMAIN.

UNIT VENTILATOR SURVEY NOTES:

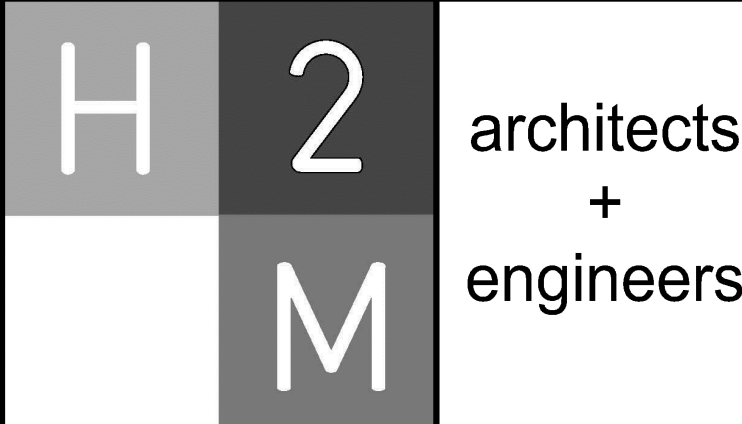
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Key Plan



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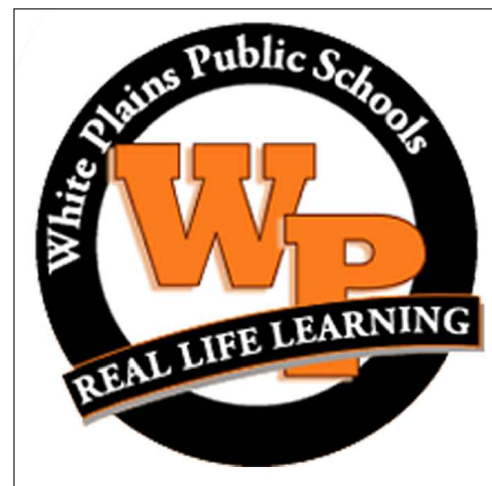


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**White Plains City
School District**

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



225 Ridgeway
White Plains, NY 10605

**SED PROJECT CONTROL
NO. 66-22-00-01-0-014-017**

CONTRACT

**CONTRACT H
HEATING VENTILATION AND AIR
CONDITIONING**

STATUS

FINAL BID DOCUMENT

SHEET TITLE

**MECHANICAL DEMOLITION
FLOOR PLAN PART A**

DRAWING No.

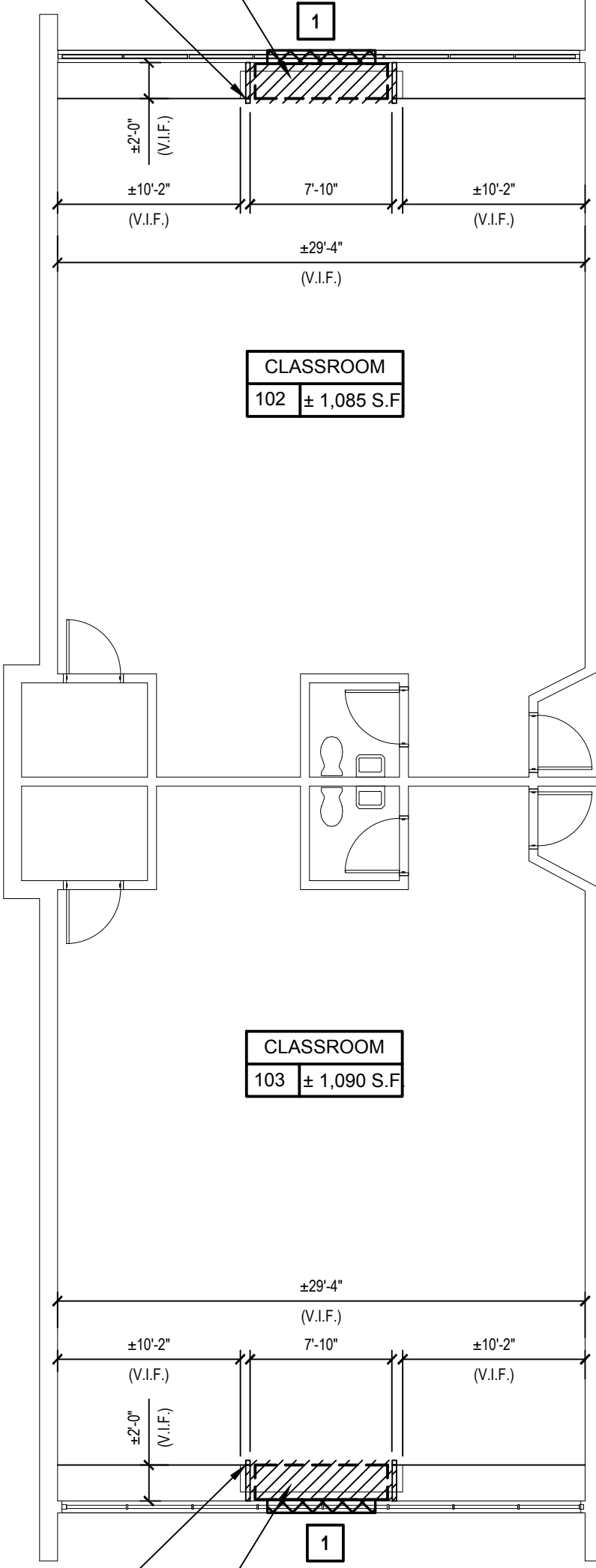
MD 110.00

X:\PSD\White Plains Central School District - 10851 WPSD 2204 - AC & Ventilation at Ridgeway Elem School\102 31M\CADD\Copy\sheet\MECHANICAL DEMOLITION FLOOR PLAN PART B.dwg User: jason.burke Date: 10/12/23 4:51pm Plotted on: 10/23/23 9:03am By: jason.burke

MATCHLINE SHEET MD110.00

CONTRACTOR SHALL COMPLETELY REMOVE AND DISPOSE OF EXISTING UNIT VENT BY CONTRACT 'H'

CONTRACTOR SHALL CAREFULLY CUT AND DISPOSE OF EXISTING CASEWORK INCLUDING BUT NOT LIMITED TO CASEWORK, BLOCKING, COUNTER TOP, SHELVING, AND ALL DEVICES USED TO SECURE THE CASEWORK IN PLACE ACCOMMODATE NEW UNIT VENT.



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1 First Floor Plan Part B
SCALE: 1/8"=1'-0"

GENERAL NOTES:

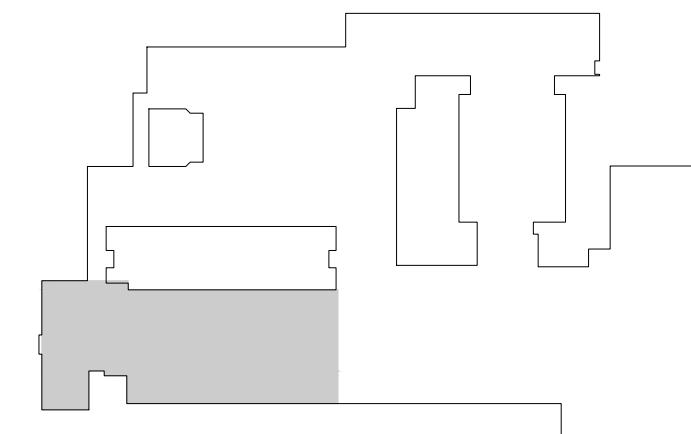
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UNIT VENTILATOR SURVEY NOTES:

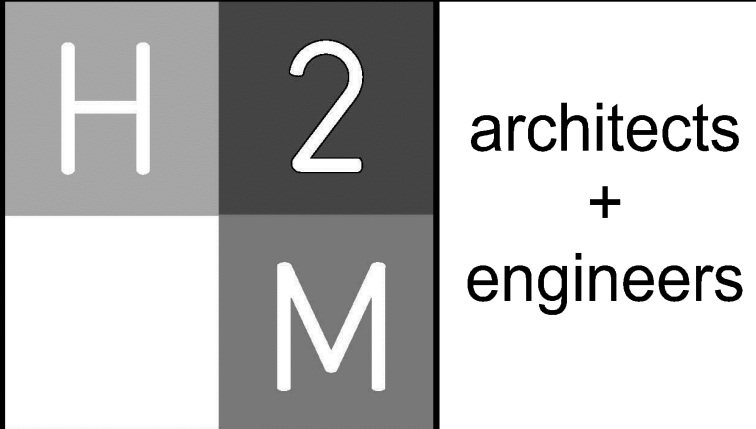
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Key Plan



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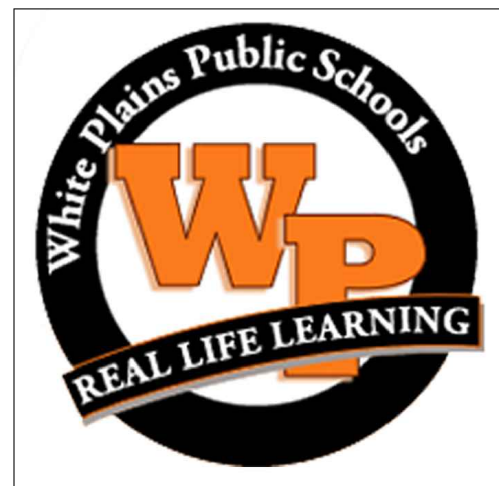
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**White Plains City
School District**

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



225 Ridgeway
White Plains, NY 10605

**SED PROJECT CONTROL
NO. 66-22-00-01-0-014-017**

CONTRACT

**CONTRACT H
HEATING VENTILATION AND AIR
CONDITIONING**

STATUS

FINAL BID DOCUMENT

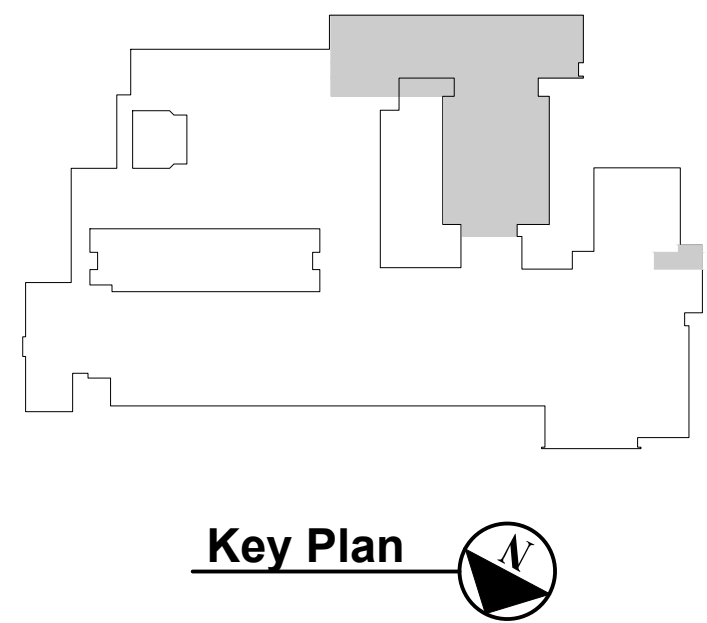
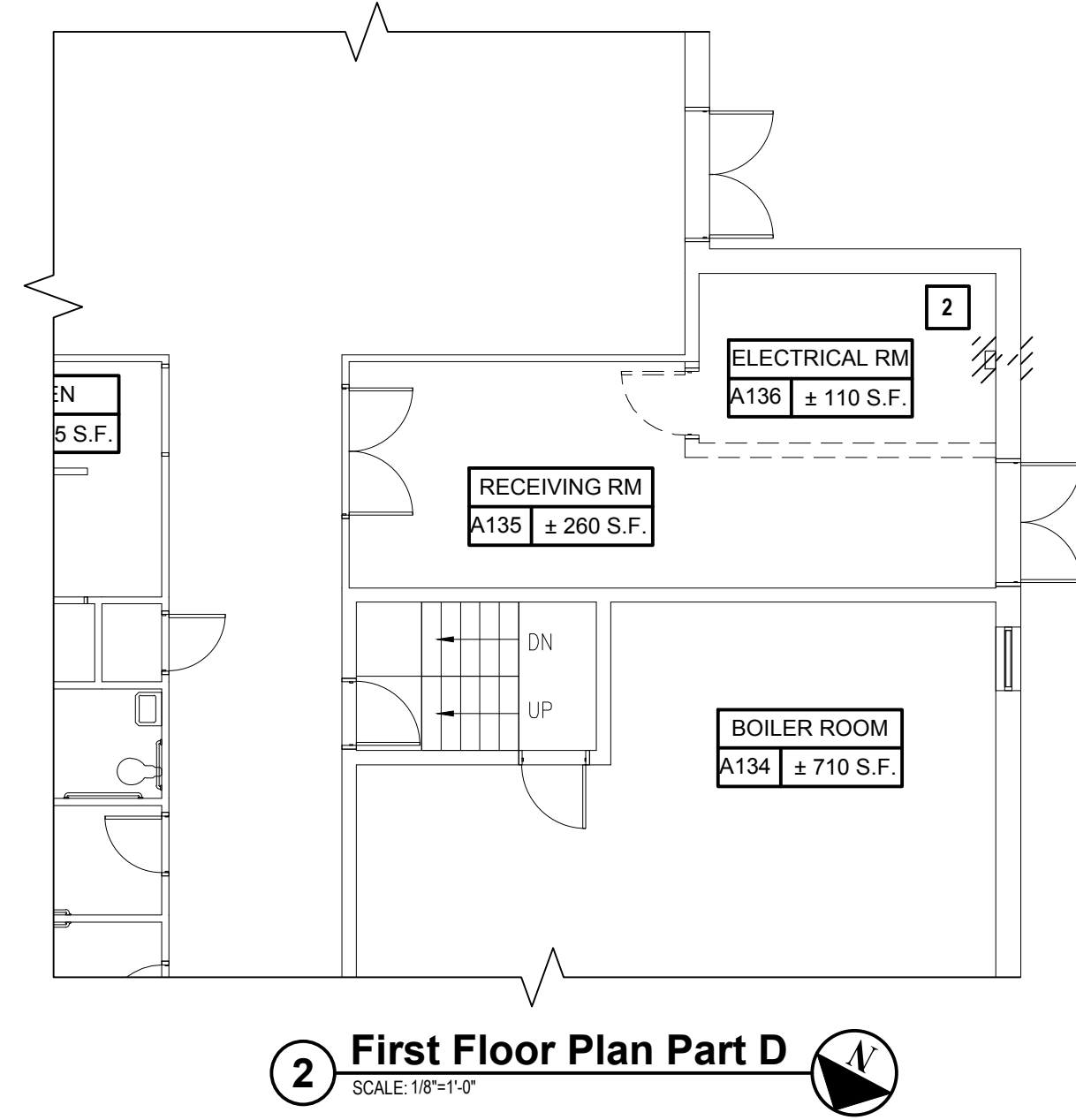
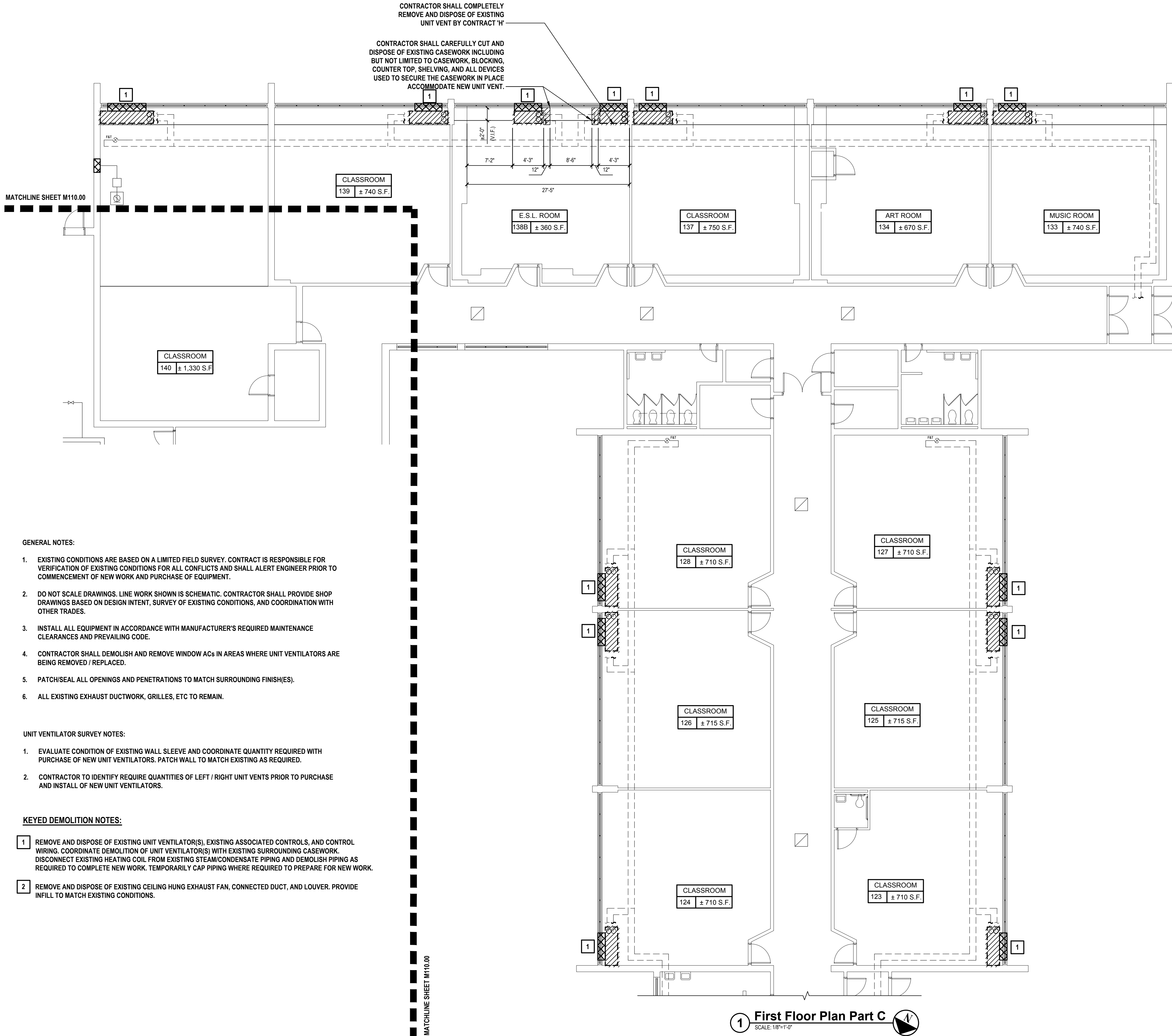
SHEET TITLE

**MECHANICAL DEMOLITION
FLOOR PLAN PART B**

DRAWING No.

MD 111.00

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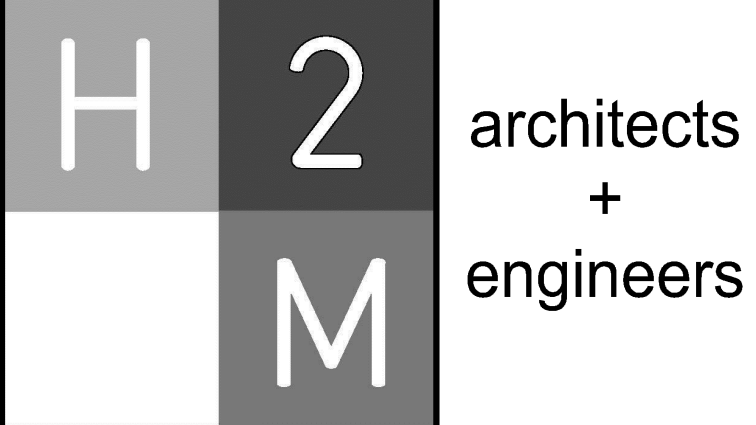
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- REMOVE AND DISPOSE OF EXISTING CEILING HUNG EXHAUST FAN, CONNECTED DUCT, AND LOUVER. PROVIDE INFILL TO MATCH EXISTING CONDITIONS.



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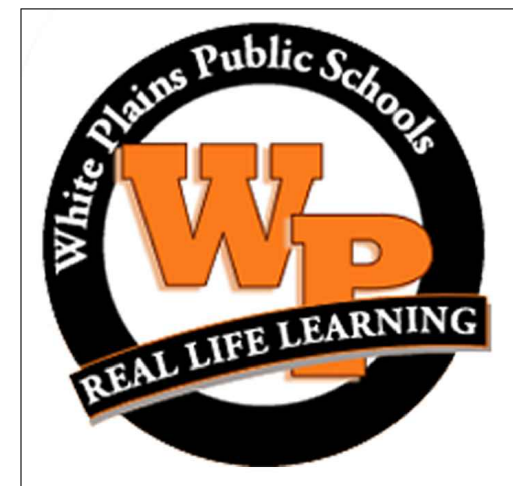
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White Plains City
School District

AC and Ventilation Upgrades at
Ridgeway Elementary School



225 Ridgeway
White Plains, NY 10605

SED PROJECT CONTROL
NO. 66-22-00-01-0-014-017

CONTRACT

CONTRACT H
HEATING VENTILATION AND AIR
CONDITIONING

STATUS

FINAL BID DOCUMENT

SHEET TITLE

MECHANICAL DEMOLITION
FLOOR PLAN PART C & D

DRAWING No.

MD 112.00

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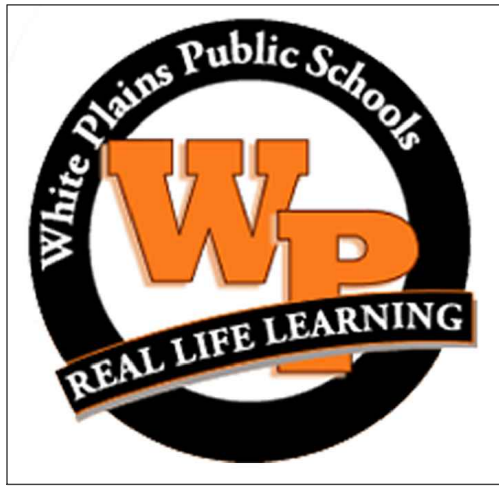


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White Plains City
School District

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225 Ridgeway
White Plains, NY 10605

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CONTRACT

CONTRACT H
HEATING VENTILATION AND AIR
CONDITIONING

STATUS

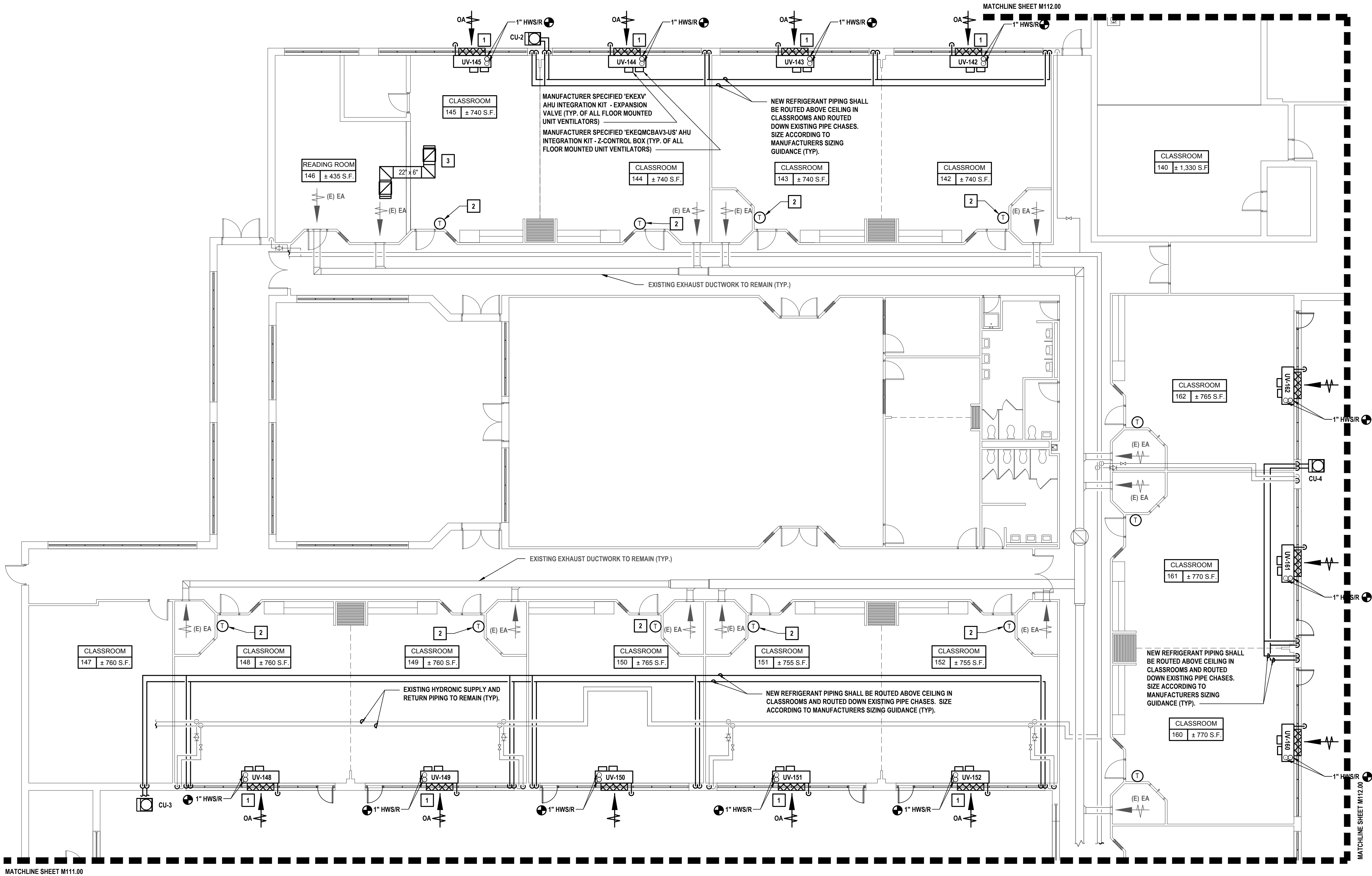
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SHEET TITLE

MECHANICAL FLOOR PLAN
PART A

DRAWING No.

M 110.00



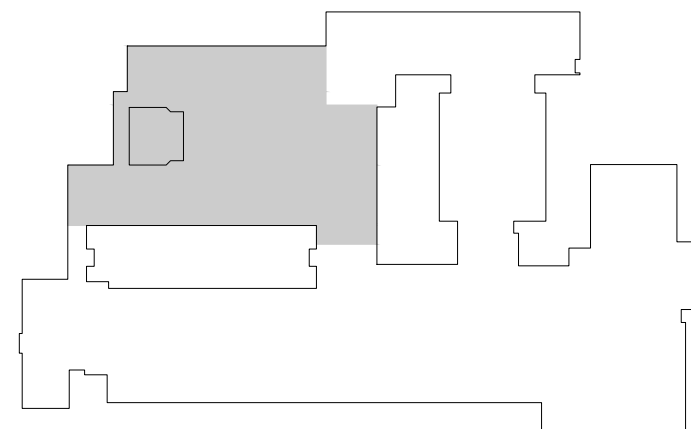
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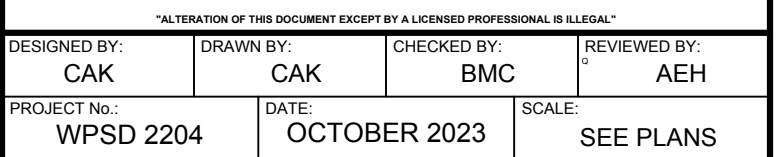
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- CONTRACTOR SHALL ROUTE ALL HORIZONTAL REFRIGERANT PIPING IN CEILING SPACES.

KEYED CONSTRUCTION NOTES:

- PROVIDE AND INSTALL NEW VERTICAL FLOOR-MOUNTED UNIT VENTILATOR (UV) WITH NEW DDC CONTROLS, NEW DDC THERMOSTAT, LOUVER, AND WALL SLEEVE. RECONNECT WITH NEW HYDRONIC 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 ARCHITECTURAL DRAWINGS FOR MODIFICATIONS OR REPLACEMENTS OF EXISTING SHELVING UNITS.
- PROVIDE AND INSTALL NEW MANUFACTURER SPECIFIED LOW VOLTAGE THERMOSTAT/CONTROLLER.
- PROVIDE AND INSTALL NEW TRANSFER AIR DUCT AS SHOWN ABOVE EXISTING CEILING. COORDINATE RETURN GRILLE LOCATIONS WITH EXISTING CEILING GRID.



Key Plan



AC and Ventilation Upgrades at Ridgeway Elementary School



SED PROJECT CONTROL
NO. 66-22-00-01-0-014-017

CONTRACT H
HEATING VENTILATION AND AIR
CONDITIONING

FINAL BID DOCUMENT

MECHANICAL FLOOR PLAN PART B

M 111.00



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7. CONTRACTOR SHALL ROUTE ALL HORIZONTAL REFRIGERANT PIPING IN CEILING SPACES.
8. PROVIDE ALLOWANCE FOR MODIFICATION OF CASEWORK IN ROOM 138. NEW UV'S ARE GREATER IN LENGTH THAN EXISTING.
9. ALL CONDENSING UNITS SHOWN ON PLAN TO BE INSTALLED ON NEW CONCRETE PADS AT EXTERIOR OF BUILDING IN LOCATIONS SHOWN ON PLAN.



1	PROVIDE AND INSTALL NEW VERTICAL FLOOR-MOUNTED UNIT VENTILATOR (UV) WITH NEW DDC CONTROLS, NEW DDC THERMOSTAT, LOUVER, AND WALL SLICE. 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 ADDITIONAL INFORMATION.
2	PROVIDE AND INSTALL NEW MANUFACTURER SPECIFIED LOW VOLTAGE THERMOSTAT/CONTROLLER.



CONSULTANTS:

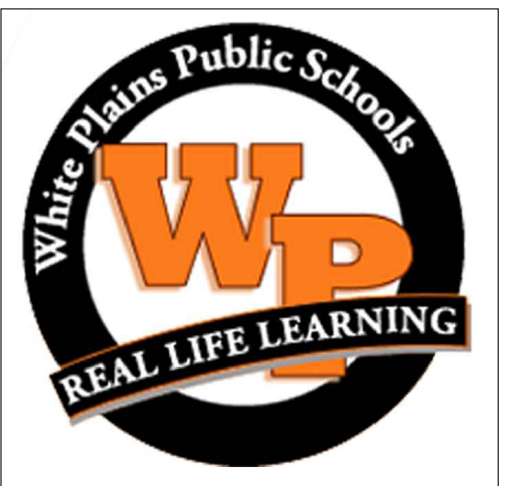
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AC and Ventilation Upgrades at Ridgeway Elementary School



225 Ridgeway
White Plains, NY 10605

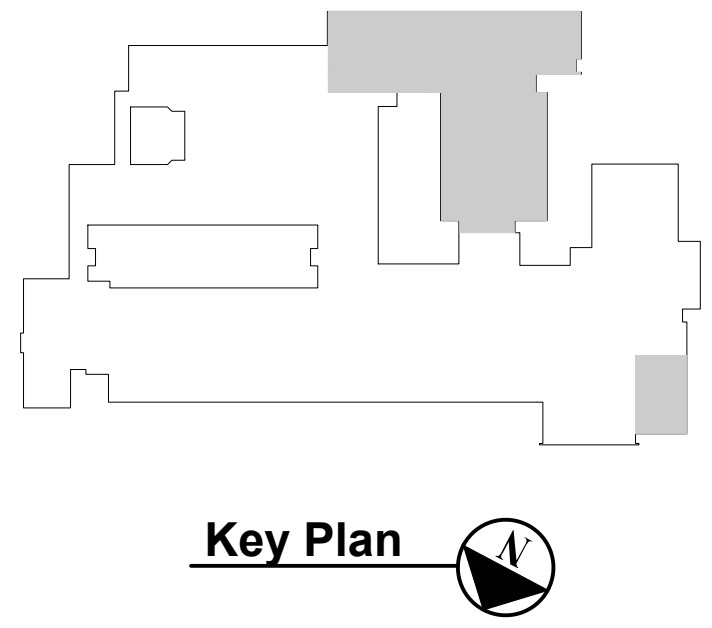
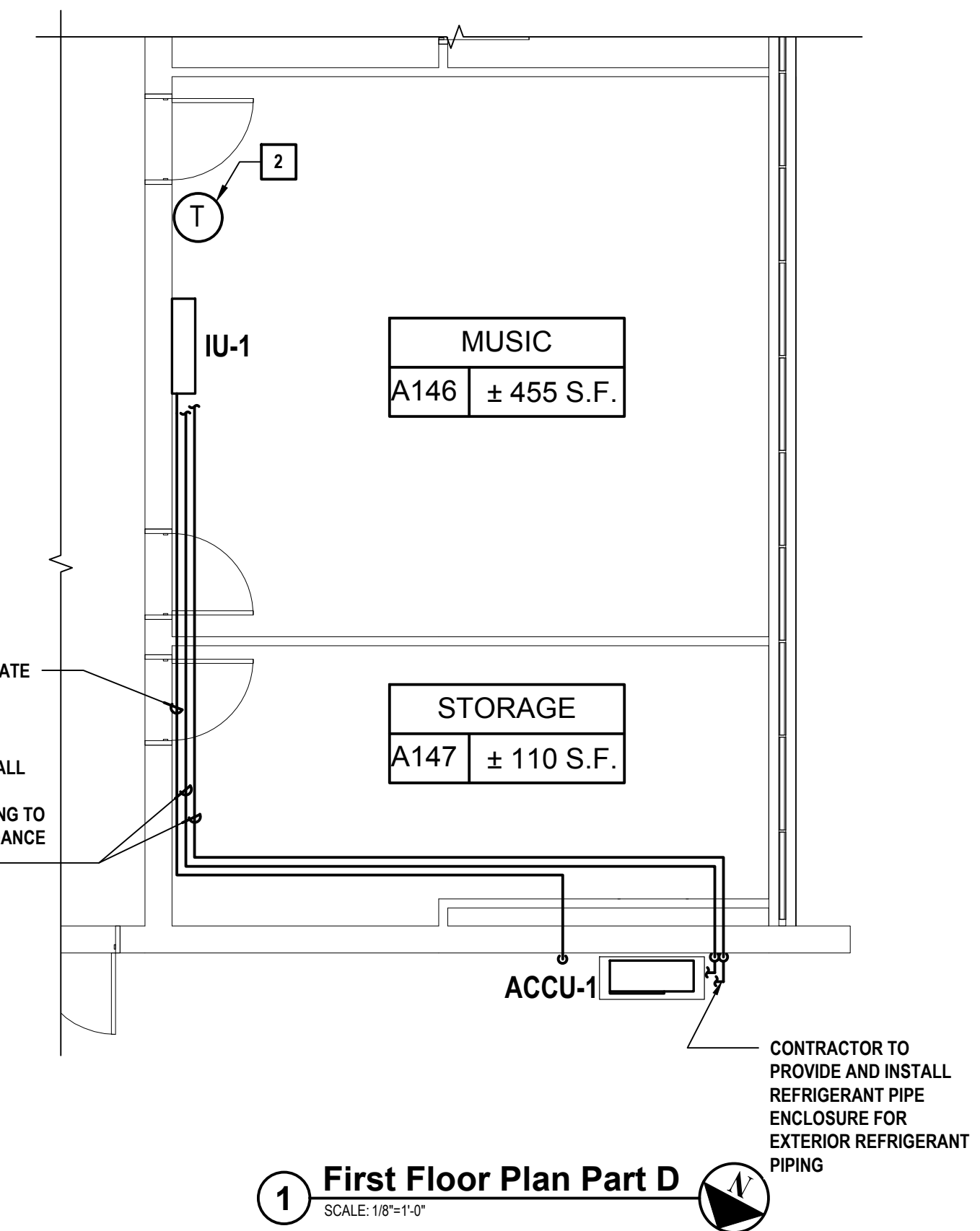
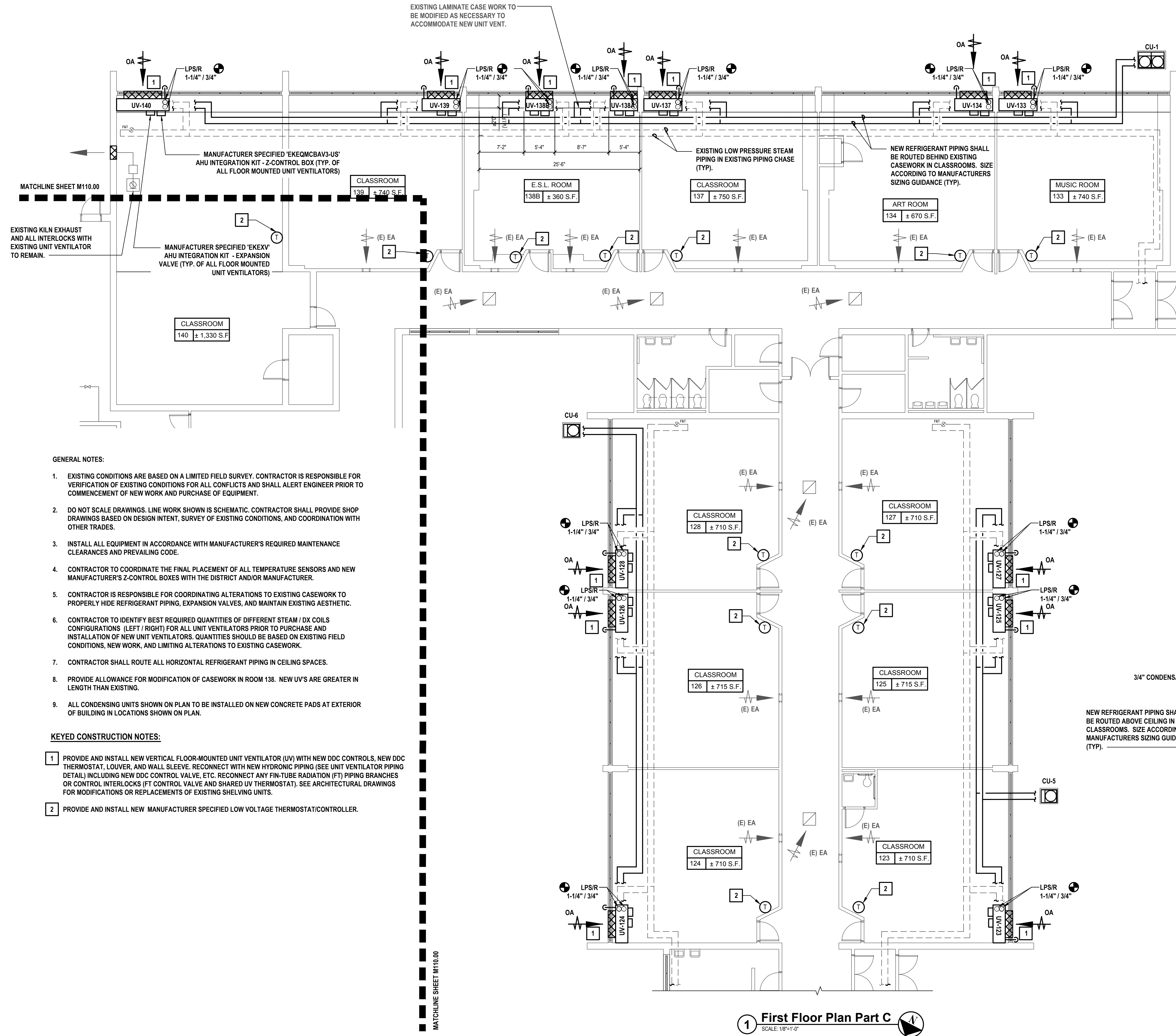
SED PROJECT CONTROL
NO. 66-22-00-01-0-014-017

CONTRACT
**CONTRACT H
HEATING VENTILATION AND AIR
CONDITIONING**

STATUS
FINAL BID DOCUMENT

SHEET TITLE
**MECHANICAL FLOOR PLAN
PART C**

DRAWING No.
M 112.00





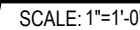
- ### SCALE-NTS



- SCALE: NTS



- SCALE-NT:



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CONTRACT

STATUS

SHEET TITLE

DRAWING No.

M500.00

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UNIT VENTILATORS

EQUIPMENT NO. UV-X	NOMINAL TONNAGE	ASSOCIATED CONDENSER	PERFORMANCE/ CONSTRUCTION REQUIREMENTS									
			SUPPLY FAN			OUTSIDE AIR FLOW (CFM)	COOLING COIL				FILTERS	
			AIR FLOW / FAN SPEED (CFM)	MOTOR POWER (HP)	MOTOR TYPE		TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	REFRIGERANT TYPE	AIR DATA		TYPE
										EAT DB/WB (°F)	LAT DB/WB (°F)	
138A, 138B	2.0	SEE PLANS	750	0.333	ECM - VARIABLE	SEE PLANS	22.9	17.2	R-410A	80 / 67	58.8 / 57.5	1" THROWAWAY
123, 124, 125, 126, 127, 128, 133, 134, 137	3	SEE PLANS	1000	0.333	ECM- VARIABLE	SEE PLANS	33.2	24.9	R-410A	80 / 67	56.6 / 56.0	1" THROWAWAY
142, 143, 144, 145, 148, 149, 150, 151, 152, 160, 161, 162	3	SEE PLANS	1000	0.333	ECM- VARIABLE	SEE PLANS	33.2	24.9	R-410A	80 / 67	56.6 / 56.0	1" THROWAWAY
102 ,103	4	SEE PLANS	1250	0.333	ECM - VARIABLE	SEE PLANS	43.4	32.6	R-410A	80 / 67	55.2 / 55.2	1" THROWAWAY
105, 107, 109, 111, 113, 139	4	SEE PLANS	1250	0.333	ECM - VARIABLE	SEE PLANS	43.4	32.6	R-410A	80 / 67	55.2 / 55.2	1" THROWAWAY
104, 106, 108, 110, 140	4.5	SEE PLANS	1500	0.333	ECM - VARIABLE	SEE PLANS	53.7	40.3	R-410A	80 / 67	54.3 / 54.3	1" THROWAWAY

UNIT VENTILATORS (CONTINUED)

EQUIPMENT NO. UV-X	PERFORMANCE/ CONSTRUCTION REQUIREMENTS										BASIS OF DESIGN INFORMATION						REMARKS
	HEATING COIL										MNF	MODEL NO.	NOMINAL DIMENSIONS LxWxH (IN.)	NOMINAL OPERATING WEIGHT (LBS.)	ELECTRICAL DATA		
	TOTAL CAPACITY (MBH)	AIR DATA		HEATING MEDIUM						ELECTRIC COIL							
		EAT (°F)	LAT (°F)	HYDRONIC COIL				STEAM COIL									
				NO. ROWS	EWT (°F)	LWT (°F)	WPD (FT. H2O)	NO. ROWS	INLET STEAM PRESSURE (PSIG)						ELECTRIC HEAT CAPACITY (KW)		
138A, 138B	37.69	51	97.4	-	-	-	-	1	3	-	DAIKIN	UAVS9V07	62 x 22 x 31	370	115 / 1	6.3 / 15	1, 2, 4-16
123, 124, 125, 126, 127, 128, 133, 134, 137	37.95	51	105	-	-	-	-	1	3	-	DAIKIN	UAVS9V10	74 x 22 x 31	445	115 / 1	6.3 / 15	1, 2, 4-16
142, 143, 144, 145, 148, 149, 150, 151, 152, 160, 161, 162	37.95	51	105	2	180	133.9	0.85	-	-	-	DAIKIN	UAVS9V10	74 x 22 x 31	445	115 / 1	6.3 / 15	1, 2, 4-16
102, 103	68.24	51	101.2	-	-	-	-	-	-	20	DAIKIN	UAVS9V13	86 x 22 x 31	525	208/3	73 / 80	1, 2, 4-16
105, 107, 109, 111, 113, 139	67.93	51	101.9	-	-	-	-	1	3	-	DAIKIN	UAVS9V13	86 x 22 x 31	525	115 / 1	6.3 / 15	1, 2, 4-16
104, 106, 108, 110, 140	85.47	51	104.4	-	-	-	-	1	3	-	DAIKIN	UAVS9V15	98 x 22 x 31	600	115 / 1	6.3 / 15	1, 2, 4-16

- NOTES:
1. PROVIDE FIELD INSTALLED UNITARY CONTROLLER SHALL HAVE OUTPUTS/INPUTS FOR REMOTE FAN CONTROL AND INTERLOCKS
2. ARRANGEMENT: VERTICAL, FLOOR MOUNTED, BOTTOM FRONT RETURN AIR, REAR OUTSIDE AIR
3. ARRANGEMENT: HORIZONTAL, CEILING MOUNTED, SELECT TO MATCH EXISTING ARRANGEMENT
4. PROVIDE ACTUATORS, TEMPERATURE SENSORS, AND FACTORY INSTALLED TERMINAL STRIP
5. PROVIDE FIELD INSTALLED UNITARY CONTROLLER TO MATCH EXISTING CONTROL PLATFORM
6. FACTORY INSTALLED TRANSFORMER TO POWER Z-BOX CONTROLLER
7. PROVIDE NEW MANUFACTURER SPECIFIED LOUVER.
8. UNIT VENTILATORS SHALL BE "DDC READY"
9. PROVIDE NEW WALL SLEEVE (IF REQUIRED)
10. DOUBLE-ROW HEATING COIL (STEAM)
11. LOW VOLT. REMOTE CONTROLLER
12. POWER DISCONNECT SWITCH
13. BACNET COMPATIBLE
14. DX-COIL
15. PROVIDE A WATER LEVEL DETECTION DEVICE CONFORMING TO UL 508 THAT WILL SHT OFF THE EQUIPMENT SERVED IN THE EVENT THAT THE PRIMARY CONDENSATE DRAIN PAN BECOMES BLOCKED.
16. UNIT VENTILATORS WITH FACTORY MOUNTED EEV KITS ARE LEFT HAND STEAM / HOT WATER AND RIGHT HAND DX. THIS IS STANDARD FROM THE FACTORY AND CANNOT BE ALTERED.

AIR COOLED CONDENSING UNITS

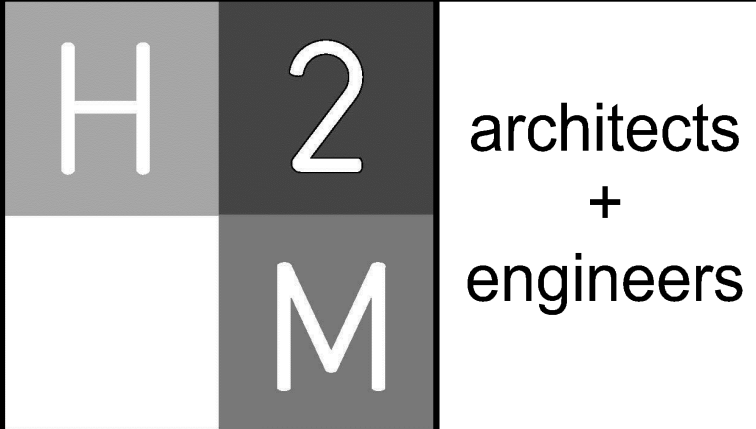
EQUIPMENT NO. CU-X	LOCATION	TOTAL TONNAGE	NUMBER OF MODULES	PERFORMANCE/ CONSTRUCTION REQUIREMENTS					BASIS OF DESIGN INFORMATION								CORRESPONDING UV-X
				COOLING AMBIENT EAT DB/WB (°F)	COOLING OPERATION TEMPERATURE RANGE (°F DB)	NOMINAL COOLING CAPACITY (MBH)	REFRIGERANT TYPE	EFFICIENCY RATING (EER / IEER)	MNF	MODEL NO.	NOMINAL DIMENSIONS L x W x H (IN.) (MOD1, MOD2)	NOMINAL OPERATING WEIGHT (LBS.) (MOD1, MOD2)	ELECTRICAL DATA				
													VOLTS/PHASE	MOD1: MCA/MOCP (AMPS)	MOD2: MCA/MOCP (AMPS)	TOTAL: MCA/MOCP (AMPS)	
1	SEE PLANS	20	2	95 / 75	23 - 122	242	R-410A	11.3 / 20.8	DAIKIN	RXYQ240XATJA	49x31x67, 49x31x67	527, 527	208/3	36.3 / 45	36.6 / 45	72.6 / 90	133, 134, 137, 138A, 138B, 139, 140
2	SEE PLANS	12	1	95 / 75	23 - 122	144	R-410A	12.3 / 24.8	DAIKIN	RXYQ144XATJA	49x31x67	695	208/3	55.1 / 60	-	-	142, 143, 144, 145
3	SEE PLANS	14	2	95 / 75	23 - 122	167	R-410A	10.6 / 22.6	DAIKIN	RXYQ168XATJA	49x31x67	695	208/3	55.1 / 60	-	-	148, 149, 150, 151, 152
4	SEE PLANS	8	1	95 / 75	23 - 122	96	R-410A	14.3 / 27.3	DAIKIN	RXYQ96XATJA	49x31x67	525	208/3	36.3 / 45	-	-	160, 161, 162
5	SEE PLANS	8	1	95 / 75	23 - 122	96	R-410A	14.3 / 27.3	DAIKIN	RXYQ96XATJA	49x31x67	525	208/3	36.3 / 45	-	-	124, 126, 128
6	SEE PLANS	8	1	95 / 75	23 - 122	96	R-410A	14.3 / 27.3	DAIKIN	RXYQ96XATJA	49x31x67	525	208/3	36.3 / 45	-	-	123, 125, 127
7	SEE PLANS	16	2	95 / 75	23 - 122	195	R-410A	11.5 / 22.2	DAIKIN	RXYQ192XATJA	49x31x67, 49x31x67	527, 437	208/3	36.3 / 45	27.6 / 35	63.9 / 80	104, 106, 108, 110
8	SEE PLANS	16	2	95 / 75	23 - 122	193	R-410A	11.5 / 22.2	DAIKIN	RXYQ192XATJA	49x31x67, 49x31x67	527, 437	208/3	36.3 / 45	27.6 / 35	63.9 / 80	105, 107, 109, 111, 113
9	SEE PLANS	3	1	95 / 75	23 - 122	36	R-410A	NA	DAIKIN	RXYQ36XATJA	37x13x39	172	208/1	16.5 / 25	-	-	102
10	SEE PLANS	3	1	95 / 75	23 - 122	36	R-410A	NA	DAIKIN	RXYQ36XAYDA	37x13x39	172	208/1	16.5 / 25	-	-	103

- NOTES:
1. PROVIDE AND INSTALL MANUFACTURER'S SPECIFIED:
1.1. INTEGRATION KIT - EXPANSION VALVE(S) (IF REQUIRED FOR UNIT VENTILATORS)
1.2. 2 PIPE REFNET JOINT(S)
1.3. INTEGRATION KIT - Z-CONTROL BOX(S) (IF REQUIRED FOR UNIT VENTILATORS)
2. INSTALL UNIT ON 18" ROOF RAILS AS PER DETAILS WITH VIBRATION ISOLATION
3. WIND BAFFLE

DUCTLESS SPLIT SYSTEM

EQUIPMENT NO.	LOCATION	AREA SERVED	PERFORMANCE/ CONSTRUCTION REQUIREMENTS										BASIS OF DESIGN INFORMATION										REMARKS	
			REQUIRED ENERGY EFFICIENCY RATING (SEER2)	REFRIGERANT	SUPPLY UNIT DATA				REMOTE CONDENSING UNIT			MNF	MODEL NO.		NOMINAL DIMENSIONS L x W x H		NOMINAL OPERATING WEIGHT (LBS.)		ELECTRICAL DATA					
					FLOW (CFM)	TOTAL COOLING CAPACITY (MBH)	HEATING CAPACITY (MBH)	MAX. DBA RATING	OUTSIDE AIR TEMP. (DEG. F)		MIN. FAN QUANTITY		MIN. COMPRESS OR QUANTITY	INTERIOR UNIT	EXTERIOR UNIT	INTERIOR UNIT	EXTERIOR UNIT	INTERIOR UNIT	EXTERIOR UNIT	INTERIOR UNIT		EXTERIOR UNIT		
									MAX	MIN										VOLTS/PHASE	MCA	VOLTS/PHASE		MCA
ACCU-1 / IU-1	SEE PLANS	SEE PLANS	19.5	R410A	328 / 643	18,000	21,600	51	104	-13	1	1	DAIKIN	FTX18WVJU9	RXL18WMVJU9	42 x 11 x 14	34 x 13 x 29	44	142	208 / 1	0.8	208 / 1	18.6	

- NOTES:
1. FURNISH AND INSTALL OPTIONAL CONDENSATE LIFT MECHANISM AS PART OF COMPLETE INDOOR UNIT SELECTION
2. PROVIDE WIRED REMOTE TEMPERATURE SENSOR / CONTROLLER AND ASSOCIATED INTERFACE ADAPTOR



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Purchase, NY 10577
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MARK	DATE	DESCRIPTION
	10-12-23	FINAL BID DOCUMENT



DESIGNED BY: CAK	DRAWN BY: CAK	CHECKED BY: BMC	REVIEWED BY: AEH
PROJECT No: WPSP 2204	DATE: OCTOBER 2023	SCALE: SEE PLANS	

CLIENT

White Plains City School District

AC and Ventilation Upgrades at Ridgeway Elementary School

225 Ridgeway
White Plains, NY 10605

SED PROJECT CONTROL
NO. 66-22-00-01-0-014-017

CONTRACT	CONTRACT H HEATING VENTILATION AND AIR CONDITIONING
STATUS	FINAL BID DOCUMENT
SHEET TITLE	MECHANICAL SCHEDULES SHEET 1
DRAWING No.	M600.00

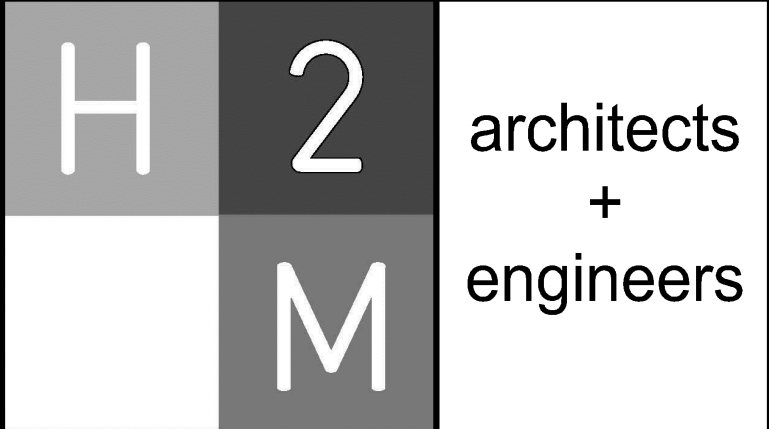
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VENTILATION INDEX BASED ON 2020 NEW YORK STATE MECHANICAL CODE (1 OF 2)

ROOM NAME	OCCUPANCY CLASSIFICATION	FLOOR AREA (SF)	OCCUPANCY LOAD (PERSONS/1000 SF)	NUMBER OF OCCUPANTS	OCCUPANT BASED OA RATE (CFM/OCCUPANT)	AREA BASED OUTSIDE AIR RATE (CFM/SF)	EXHAUST RATE (CFM/SF)	UNCORRECTED OA REQUIRED (CFM)	Ez EFFICIENCY FACTOR (HEATING)	CORRECTED OA [HEATING] (CFM)	EXHAUST REQUIRED (CFM)
102	CLASSROOM 5-8	1085	25	28	10	0.12	0	411	0.90	457	0
103	CLASSROOM 5-8	1090	25	28	10	0.12	0	411	0.90	457	0
104	CLASSROOM 5-8	1000	25	25	10	0.12	0	370	0.90	411	0
105	CLASSROOM 5-8	825	25	21	10	0.12	0	309	0.90	343	0
106	CLASSROOM 5-8	1010	25	26	10	0.12	0	382	0.90	424	0
107	CLASSROOM 5-8	835	25	21	10	0.12	0	311	0.90	346	0
108	CLASSROOM 5-8	1010	25	26	10	0.12	0	382	0.90	424	0
109	CLASSROOM 5-8	835	25	21	10	0.12	0	311	0.90	346	0
110	CLASSROOM 5-8	990	25	25	10	0.12	0	369	0.90	410	0
111	CLASSROOM 5-8	835	25	21	10	0.12	0	311	0.90	346	0
113	CLASSROOM 5-8	830	25	21	10	0.12	0	310	0.90	344	0
123	CLASSROOM 5-8	710	25	18	10	0.12	0	266	0.90	296	0
124	CLASSROOM 5-8	710	25	18	10	0.12	0	266	0.90	296	0
125	CLASSROOM 5-8	715	25	18	10	0.12	0	266	0.90	296	0
126	CLASSROOM 5-8	715	25	18	10	0.12	0	266	0.90	296	0
127	CLASSROOM 5-8	710	25	19	10	0.12	0	266	0.90	296	0
128	CLASSROOM 5-8	710	25	17	10	0.12	0	266	0.90	296	0
133	CLASSROOM 5-8	740	25	19	10	0.12	0	279	0.90	310	0

VENTILATION INDEX BASED ON 2020 NEW YORK STATE MECHANICAL CODE (2 OF 2)

ROOM NAME	OCCUPANCY CLASSIFICATION	FLOOR AREA (SF)	OCCUPANCY LOAD (PERSONS/1000 SF)	NUMBER OF OCCUPANTS	OCCUPANT BASED OA RATE (CFM/OCCUPANT)	AREA BASED OUTSIDE AIR RATE (CFM/SF)	EXHAUST RATE (CFM/SF)	UNCORRECTED OA REQUIRED (CFM)	Ez EFFICIENCY FACTOR (HEATING)	CORRECTED OA [HEATING] (CFM)	EXHAUST REQUIRED (CFM)
134	CLASSROOM 5-8	670	25	17	10	0.12	0	251	0.90	279	0
137	CLASSROOM 5-8	750	25	19	10	0.12	0	280	0.90	311	0
138	CLASSROOM 5-8	720	25	18	5	0.06	0	267	0.90	297	0
139	CLASSROOM 5-8	740	25	19	10	0.12	0	279	0.90	310	0
140	CLASSROOM 5-8	1330	25	27	10	0.12	0	510	0.90	567	0
142	CLASSROOM 5-8	740	25	19	10	0.12	0	279	0.90	310	0
143	CLASSROOM 5-8	740	25	19	10	0.12	0	279	0.90	310	0
144	CLASSROOM 5-8	740	25	19	10	0.12	0	279	0.90	310	0
145	CLASSROOM 5-8	740	25	19	10	0.12	0	279	0.90	310	0
148	CLASSROOM 5-8	760	25	19	10	0.12	0	282	0.90	313	0
149	CLASSROOM 5-8	760	25	19	10	0.12	0	282	0.90	313	0
150	CLASSROOM 5-8	765	25	20	10	0.12	0	292	0.90	324	0
151	CLASSROOM 5-8	755	25	19	10	0.12	0	281	0.90	312	0
152	CLASSROOM 5-8	755	25	19	10	0.12	0	281	0.90	312	0
160	CLASSROOM 5-8	770	25	20	10	0.12	0	293	0.90	326	0
161	CLASSROOM 5-8	770	25	20	10	0.12	0	293	0.90	326	0
162	CLASSROOM 5-8	765	25	20	10	0.12	0	292	0.90	324	0



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CONSULTANTS:

MARK	DATE	DESCRIPTION
	10-12-23	FINAL BID DOCUMENT



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DESIGNED BY: CAK	DRAWN BY: CAK	CHECKED BY: BMC	REVIEWED BY: AEH
PROJECT No.: WPSD 2204	DATE: OCTOBER 2023	SCALE: SEE PLANS	

CLIENT

White Plains City School District

AC and Ventilation Upgrades at
Ridgeway Elementary School



225 Ridgeway
White Plains, NY 10605

SED PROJECT CONTROL
NO. 66-22-00-01-0-014-017

CONTRACT

CONTRACT H
HEATING VENTILATION AND AIR
CONDITIONING

STATUS

FINAL BID DOCUMENT



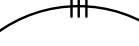

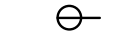
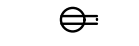

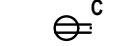
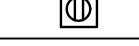


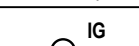
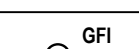
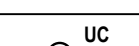
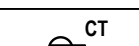

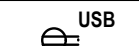

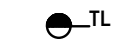

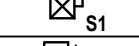
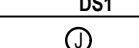
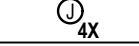
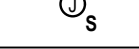
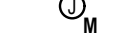

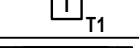

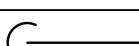
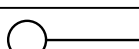








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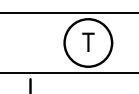
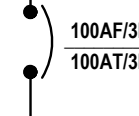
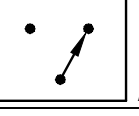
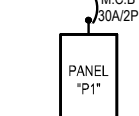
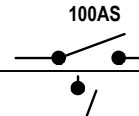
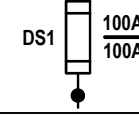
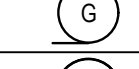
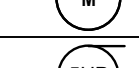

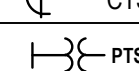


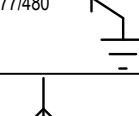
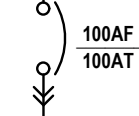
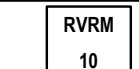
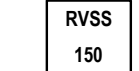
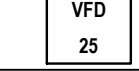
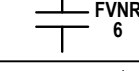
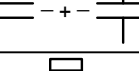

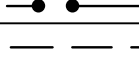

MECHANICAL SCHEDULES
SHEET 2

DRAWING No.

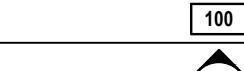
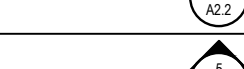
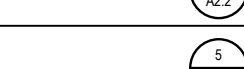
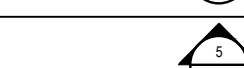
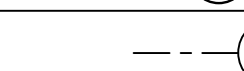
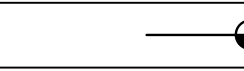


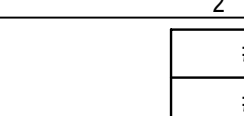

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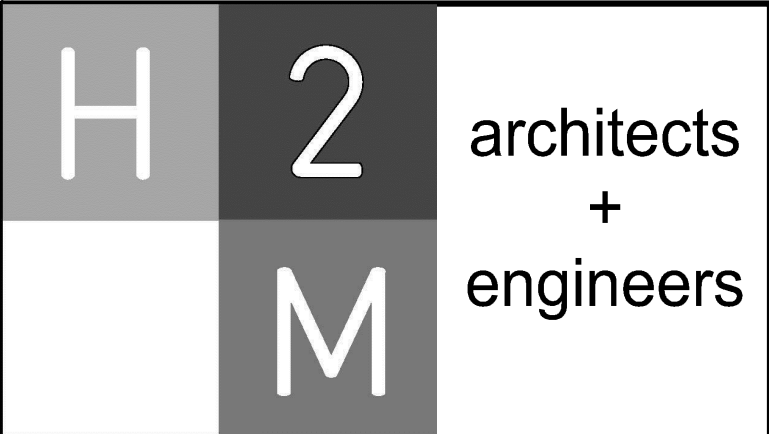
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ELECTRICAL LEGENDS					
SYMBOL	DESCRIPTION	COMMENTS	ABBREVIATION	DESCRIPTION	COMMENTS
S ₃	THREE - WAY SWITCH	46" AFF TO CL UON	AFF	ABOVE FINISHED FLOOR	
S ₄	FOUR - WAY SWITCH	46" AFF TO CL UON	AFC	ABOVE FINISHED CEILING	
S _I	ILLUMINATED SWITCH	46" AFF TO CL UON	AFCI	ARC FAULT CIRCUIT INTERRUPTER	
S ^A	SINGLE POLE SWITCH; "A" INDICATES SWITCH CONTROL	46" AFF TO CL UON	AFG	ABOVE FINISHED GRADE	
S ₀	SINGLE POLE DIMMER SWITCH	46" AFF TO CL UON	AHJ	AUTHORITY HAVING JURISDICTION	
S ₃₀	THREE - WAY DIMMER SWITCH	46" AFF TO CL UON	AMP, A	AMPERE	
S _K	SINGLE POLE KEYED SWITCH	46" AFF TO CL UON	ATS	AUTOMATIC TRANSFER SWITCH; SEE TRANSFER SWITCH SCHEDULE	
S _{K3}	KEYED THREE - WAY SWITCH	46" AFF TO CL UON	AWG	AMERICAN WIRE GAUGE	
S _{K4}	KEYED FOUR - WAY SWITCH	46" AFF TO CL UON	BFC	BELOW FINISHED CEILING	
S _P	SWITCH AND PILOT LIGHT		CL	CENTERLINE	
S _T	SWITCH WITH THERMAL OVERLOAD PROTECTION (CONTRACTOR SHALL COORDINATE VOLTAGE AND PHASE WITH EQUIPMENT)		CT	COUNTER TOP	
S _{0s} v _s	OCCUPANCY/VACANCY SENSOR WITH MANUAL OVERRIDE, WALL MOUNT		E.C.	ELECTRICAL CONDUIT	
T _C	TIME CLOCK		GFCI	GROUND FAULT CIRCUIT INTERRUPTER	
 E _G	EMERGENCY SHUT OFF SWITCH; "E" INDICATES ELECTRICAL; "G" INDICATES GAS		GFI	GROUND FAULT INDICATOR	
	2 #12 AWG + #12 AWG GND IN 3/4" E.C. CONCEALED IN WALL OR CEILING		GND	GROUND	
	3 #12 AWG + #12 AWG GND IN 3/4" E.C. CONCEALED IN OR BELOW SLAB		CON ED	CONSOLIDATED EDISON (LOCAL ELECTRIC UTILITY)	
 LP1-35	DEDICATED HOME RUN TO PANEL LP1 FOR CIRCUIT NO. 35 ONLY. 2 #12 AWG + #12 AWG GND IN 3/4" E.C. CONCEALED IN WALL OR CEILING		MCB	MAIN CIRCUIT BREAKER	
	SIMPLEX RECEPTACLE: 120V, 20A. COORDINATE MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR TO CLEAR BASEBOARDS.	FLUSH	MLO	MAIN LUGS ONLY	
	DUPLEX RECEPTACLE: 120V, 20A. COORDINATE MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR TO CLEAR BASEBOARDS.	FLUSH	N.T.S.	NOT TO SCALE	
	QUAD RECEPTACLE, DOUBLE DUPLEX RECEPTACLE: 120V, 20A. COORDINATE MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR TO CLEAR BASEBOARDS.	FLUSH	TYP	TYPICAL	
	DUPLEX RECEPTACLE: 120V, 20A; SUBSCRIPT "C" INDICATES CEILING MOUNT.	FLUSH	UON	UNLESS OTHERWISE NOTED	
	DUPLEX RECEPTACLE: 120V, 20A; FLOOR MOUNTED.	FLUSH	UC	UNDER COUNTER	
	QUAD RECEPTACLE: 120V, 20A; FLOOR MOUNTED.		UV	UNIT VENTILATOR	
 D _{IT}	DUPLEX RECEPTACLE AND DATA JACK: 120V, 20A; FLOOR MOUNTED.		V	VOLT	
 D _{IT}	DATA JACK; FLOOR MOUNTED.		VAC	VOLTS ALTERNATING CURRENT	
	ISOLATED GROUND DUPLEX RECEPTACLE. COORDINATE MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR TO CLEAR BASEBOARDS.	FLUSH	VDC	VOLTS DIRECT CURRENT	
	DUPLEX RECEPTACLE: 120V, 20A; WITH GROUND FAULT INDICATOR. COORDINATE MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR TO CLEAR BASEBOARDS.	FLUSH	XFMR	TRANSFORMER	
	DUPLEX RECEPTACLE: 120V, 20A; SUBSCRIPT "UC" INDICATES UNDER COUNTER	AS PER ENGINEER	WP	WEATHERPROOF	
	DUPLEX RECEPTACLE: 120V, 20A; SUBSCRIPT "CT" INDICATES COUNTER TOP.	AS PER ENGINEER			
	DUPLEX RECEPTACLE: 120V, 20A; SUBSCRIPT "WP" INDICATED WEATHER PROOF.	AS PER ENGINEER			
	DUPLEX RECEPTACLE: 120V, 20A; SUBSCRIPT "USB" INDICATES INTEGRAL USB.	FLUSH			
	SPECIAL PURPOSE OUTLET: 240V, 40A. VERIFY NEMA CONFIGURATION WITH EQUIPMENT MANUFACTURER.	AS PER ENGINEER			
	TWISTED LOCK RECEPTACLE: 125V, 20A, 3 WIRE, UNLESS OTHERWISE NOTED.	AS PER ENGINEER			
	SURFACE RACEWAY WITH 2 GROUNDED AND ISOLATED TYPE DUPLEX RECEPTACLES AND 1 DATA OUTLET PER POSITION, 18" AFF UNLESS OTHERWISE NOTED.				
 S ₁	MAGNETIC STARTER "S1"; SEE STARTER SCHEDULE				
 D _{S1}	DISCONNECTION SWITCH "DS1"; SEE DISCONNECT SWITCH SCHEDULE.				
	JUNCTION BOX.				
	NEMA 4X STAINLESS STEEL JUNCTION BOX WITH GASKET COVER.				
	JUNCTION BOX RECESSED IN WALL WITH BLANK COVER, PROVIDE 3/4" E.C. AND DRAG LINE TO ABOVE FINISHED CEILING, MOUNT 18" AFF, UNLESS OTHERWISE NOTED.				
	FOR MONITOR, JUNCTION BOX RECESSED IN WALL WITH BLANK COVER, PROVIDE 3/4" E.C. AND DRAG LINE TO ABOVE FINISHED CEILING.				
	FOR HAND DRYER, JUNCTION BOX RECESSED IN WALL WITH BLANK COVER, PROVIDE 3/4" E.C. AND DRAG LINE TO ABOVE FINISHED CEILING, COORDINATE MOUNTING HEIGHT WITH ARCHITECT.				
 T ₁	TRANSFORMER "T1"; SEE TRANSFORMER SCHEDULE.				
 P ₁	ELECTRICAL PANEL "P1", RECESSED; SEE PANEL SCHEDULE.				
 P ₁	ELECTRICAL PANEL "P1", SURFACE MOUNT; SEE PANEL SCHEDULE.				
	CONDUIT GOING UP.				
	CONDUIT GOING DOWN.				
	TELEPHONE. PROVIDE 3/4" E.C. WITH DRAG LINE TO AFC AND EMPTY J. BOX RECESSED IN WALL WITH BLANK COVER.				
	CABLE TELEVISION. PROVIDE 3/4" E.C. WITH DRAG LINE TO AFC AND EMPTY J. BOX RECESSED IN WALL WITH BLANK COVER.				
	DATA. PROVIDE 3/4" E.C. WITH DRAG LINE TO AFC AND EMPTY J. BOX RECESSED IN WALL WITH BLANK COVER.				
	COMBINED DATA AND TV. PROVIDE 3/4" E.C. WITH DRAG LINE TO AFC AND EMPTY J. BOX RECESSED IN WALL WITH BLANK COVER.				
	SECURITY CAMERA. PROVIDE 3/4" E.C. WITH DRAG LINE TO AFC AND EMPTY J. BOX RECESSED IN WALL WITH BLANK COVER.				

SINGLE LINE DIAGRAM LEGEND		
SYMBOL	DESCRIPTION	COMMENTS
	LINE VOLTAGE THERMOSTAT, 120V, 10A.	
	CIRCUIT BREAKER WITH FRAME SIZE, TRIP SIZE AND NUMBER OF POLES AS NOTED: 100 AMP FRAME, 100 AMP TRIP, 3 POLES.	
	TRANSFER SWITCH "TS1"; SEE TRANSFER SWITCH SCHEDULE.	
	DISTRIBUTION PANEL P1 WITH 30A, 2 POLE MCB; SEE DISTRIBUTION PANEL SCHEDULE.	
	UNFUSED DISCONNECT SWITCH DS1, 100 AMP; SEE DISCONNECT SWITCH SCHEDULE.	
	FUSED DISCONNECT SWITCH "DSI", FUSED AT 100 AMP SIZE, 100 AMP FUSED, 3 POLES; SEE DISCONNECT SWITCH SCHEDULE.	
	GENERATOR SET "G"	
	ELECTRIC METER AND METER PAN AS PER PSEG REQUIREMENTS.	
	MOTOR, NUMBER INDICATES HORSEPOWER.	
	CURRENT TRANSFORMERS.	
	VOLTAGE TRANSFORMERS.	
	UNINTERRUPTIBLE POWER SUPPLY	
	TRANSFORMER "T2" WITH SIZE, PRIMARY AND SECONDARY VOLTAGES AS NOTED.	
	RACK OUT CIRCUIT BREAKER	
	REDUCED VOLTAGE SOLID STATE RAMPING MODULE, SIZED FOR 10 H.P.	
	REDUCED VOLTAGE SOLID STATE STARTER, SIZED FOR 150 H.P.	
	VARIABLE FREQUENCY DRIVE, RATED FOR 25 H.P.	
	FULL VOLTAGE NON-REVERSING STARTER, NEMA SIZE 6	
	FULL VOLTAGE REVERSING STARTER, NEMA SIZE 5	
	FAST ACTING SOLID STATE FUSES AS PER MANUFACTURER.	
	MULTIPLE BRANCH CIRCUITS AS REQUIRED.	
	CONTROL CIRCUIT; MIN 2 #12 AWG IN 3/4" E.C.	

LIST OF DRAWINGS	
E 001	ELECTRICAL LEGENDS
ED 100	ELECTRICAL FIRST FLOOR FULL BUILDING DEMOLITION PLANS
ED 200	ELECTRICAL PARTIAL FIRST FLOOR DEMOLITION PLAN A
ED 201	ELECTRICAL PARTIAL FIRST FLOOR DEMOLITION PLAN B
ED 202	ELECTRICAL PARTIAL FIRST FLOOR DEMOLITION PLAN C
E 100	ELECTRICAL FIRST FLOOR FULL BUILDING PLANS
E 200	ELECTRICAL PARTIAL FIRST FLOOR HVAC POWER PLAN A
E 201	ELECTRICAL PARTIAL FIRST FLOOR HVAC POWER PLAN B
E 202	ELECTRICAL PARTIAL FIRST FLOOR HVAC POWER PLAN C
E 300	ELECTRICAL DETAILS AND SINGLE LINE DIAGRAMS
E 400	ELECTRICAL SCHEDULES
E 500	ELECTRICAL SWITCHBOARD ELEVATION

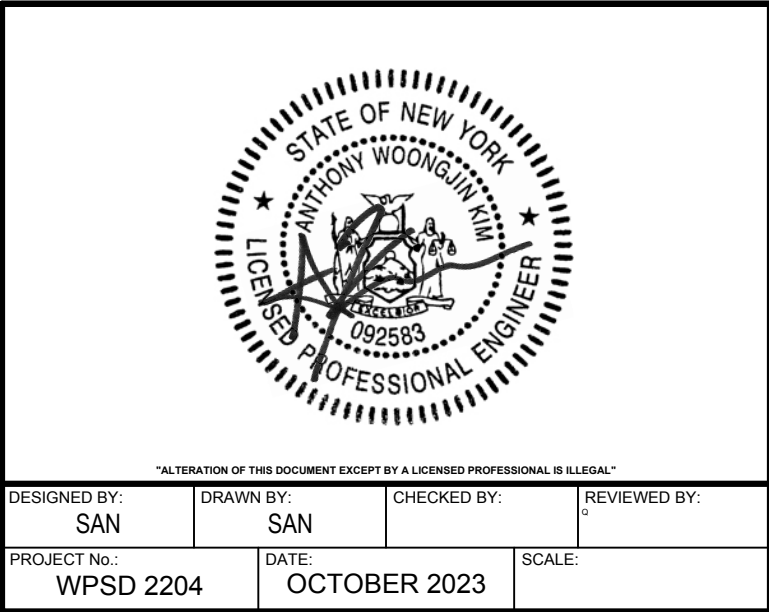
SYMBOLS LEGEND	
	ROOM DESIGNATION
	BUILDING SECTION CUT
	WALL SECTION CUT
	DETAIL KEY
	ELEVATION KEY
	COLUMN GRID
	ELEVATION LINE
	DRAWING TITLE
	INTERIOR ELEVATION REFERENCE
	SEE NOTE # ON DWG #



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Purchase, NY 10577
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CLIENT

White Plains City School District

AC and Ventilation Upgrades at Ridgeway Elementary School



225 Ridgeway
White Plains, NY 10605

SED PROJECT CONTROL
NO. 66-22-00-01-0-014-017

CONTRACT
CONTRACT E ELECTRICAL CONSTRUCTION

STATUS
FINAL BID DOCUMENT

SHEET TITLE
ELECTRICAL LEGENDS

DRAWING No.
E 001.00

MARK	DATE	DESCRIPTION
	10-16-23	FINAL BID DOCUMENT

**White Plains City
School District**



**225 Ridgeway
White Plains, NY 10605**

**SED PROJECT CONTROL
NO. 66-22-00-01-0-014-017**

CONTRACT E
ELECTRICAL CONSTRUCTION

STATUS

FINAL BID DOCUMENT

ELECTRICAL FIRST FLOOR FULL BUILDING DEMOLITION PLAN

DRAWING No. **ED 100.00**



/// - REMOVE AND DISPOSE OF ITEM IDENTIFIED, U.O.N.

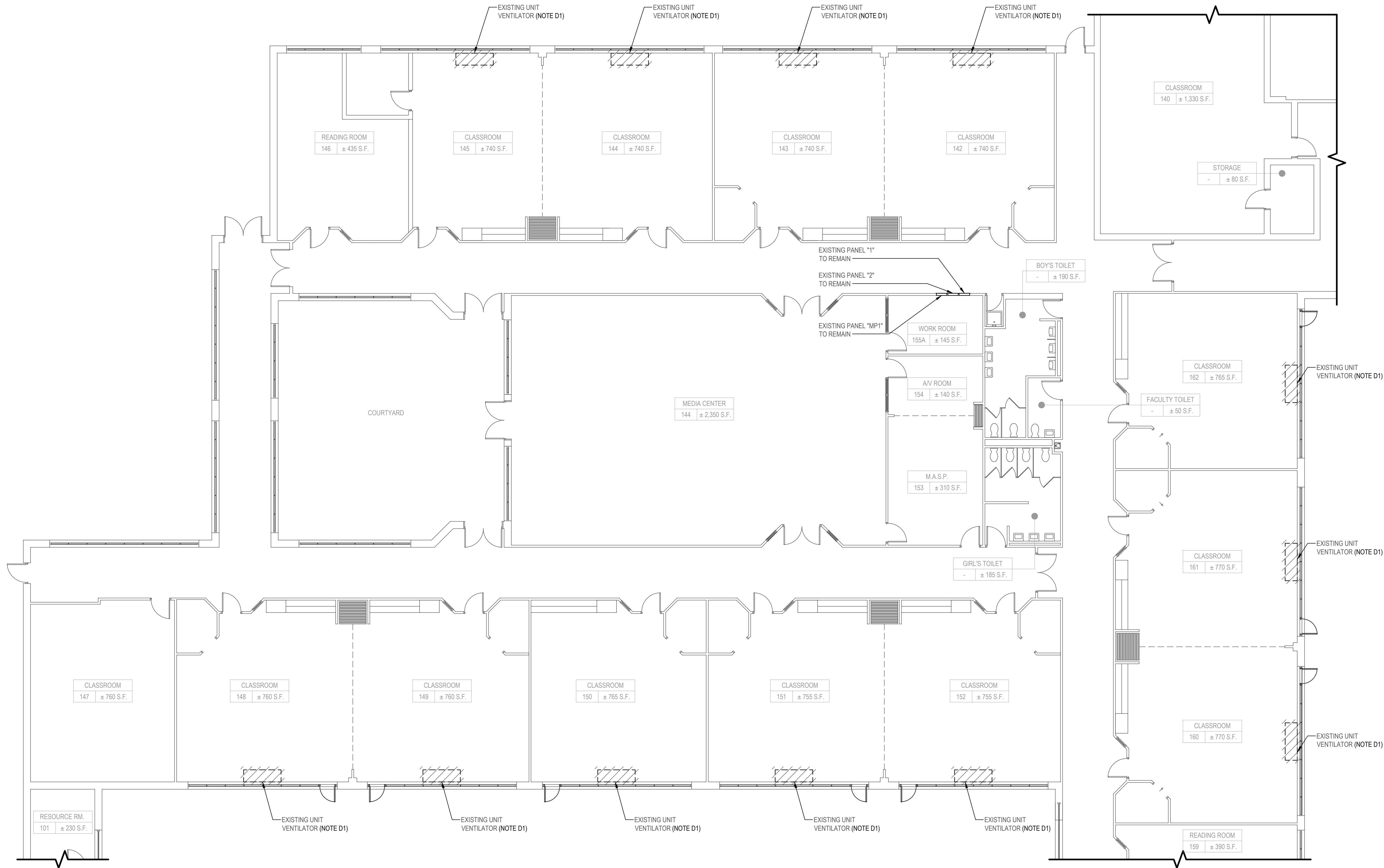
- GD1. REMOVE AND DISPOSE OF INCLUDES REMOVAL OF ITEM IDENTIFIED INCLUDING ALL CONDUITS, WIRES AND CABLES, BACK TO SOURCE UNLESS OTHERWISE NOTED.
- GD2. CONTRACTOR SHALL BE REQUIRED TO MAINTAIN CIRCUIT CONTINUITY FOR ALL EXISTING DEVICES ON A CIRCUIT WHEN THE DRAWINGS CALL FOR REMOVAL AND/OR DISPOSAL OF A DEVICE ON THAT CIRCUIT.
- GD3. ALL CONDUITS SPECIFIED TO BE REMOVED SHALL BE CUT FLUSH WITH THE SURFACE AND SURFACE SHALL BE PATCHED UNLESS OTHERWISE NOTED. SURFACE SHALL BE PRIMED AND PAINTED TO MATCH EXISTING.
- GD4. WHERE CONDUITS AND WIRING PASS THROUGH WORK AREA AND/OR ARE SCHEDULED TO REMAIN, CONTRACTOR SHALL REROUTE EXISTING CONDUIT AND WIRING, PROVIDE CONDUIT, WIRE, AND JUNCTION BOXES AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. COORDINATE WITH OTHER TRADES IS REQUIRED.
- GD5. CONTRACTOR SHALL NOTIFY FIRE ALARM MONITORING COMPANY PRIOR TO INSTALLING, RELOCATING AND/OR MODIFYING EXISTING AND/OR NEW FIRE ALARM DEVICES. PROGRAM SYSTEM AS REQUIRED TO INSTALL NEW DEVICES.

- D1. CONTRACTOR SHALL REMOVE AND DISPOSE OF INCLUDES REMOVAL OF ITEM IDENTIFIED INCLUDING ALL CONDUITS AND CONDUCTORS BACK TO SOURCE AND RESTORATION OF FINISHES, UNLESS OTHERWISE NOTED ALL CONDUITS STUBBING UP FROM BELOW SLAB OR THROUGH WALLS SHALL BE CUT BELOW SURFACE AND FLOOR/WALL SHALL BE PATCHED, REPAIR, RESTORE, PAINT & FINISH TO MATCH ORIGINAL APPEARANCE OF ALL WALLS, CEILINGS, AND ALL BUILDING FINISHES THAT ARE DISTURBED IN DEMOLITION OR INSTALLATION.
- D2. CONTRACTOR SHALL TURN EXISTING UTILITY METER OVER TO ELECTRIC UTILITY. REMOVE AND DISPOSE OF EXISTING ENCLOSURES.
- D3. CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING SWITCHBOARD AND ALL ASSOCIATED SWITCH, FUSES, CIRCUIT BREAKERS, BUSSES, COVERS AND HARDWARE. PATCH, PRIME, AND PAINT BEHIND REMOVED EQUIPMENT, ALL EXISTING MAIN FEEDERS AND SUB-DISTRIBUTION FEEDERS TO REMAIN AND SHALL BE EXTENDED TO NEW SWITCHBOARD.
- D4. CONTRACTOR SHALL VERIFY EXACT RATINGS AND NUMBER OF POLES OF EXISTING CIRCUIT BREAKERS PRIOR TO PROVIDING AND INSTALLING NEW CIRCUIT BREAKERS IN NEW SWITCHBOARD. OVERCURRENT PROTECTION ON NEW CIRCUIT BREAKERS SHALL MATCH EXISTING FUSE SIZES.

D5.	CONTRACTOR SHALL HIRE AND PAY FOR ALL SERVICES FROM ELEMCO OR APPROVED EQUAL TO TEST EXISTING BOLTED PRESSURE SWITCH PRIOR TO DE-ENERGIZING EXISTING ELECTRICAL SERVICE.
D6.	CONTRACT 'M' SHALL REMOVE AND DISPOSE OF EXISTING EQUIPMENT. CONTRACT 'E' SHALL REMOVE AND DISPOSE OF ALL ELECTRICAL EQUIPMENT ASSOCIATED WITH THE EXISTING HVAC EQUIPMENT SCHEDULED FOR DEMOLITION INCLUDING BUT NOT LIMITED TO DISCONNECT SWITCHES, MOTOR STARTERS, ASSOCIATED FIRE ALARM DEVICES, WIRE AND CONDUIT BACK TO SOURCE. REFER TO CONTRACT 'M' DRAWINGS FOR ADDITIONAL INFORMATION.
D7.	ALL EXISTING SUB-DISTRIBUTION FEEDERS FROM PANELS "MPL" AND "MPR" TO REMAIN AND SHALL BE EXTEND TO NEW PANEL "MPL" AND "MPR". ALL EXISTING SUB-DISTRIBUTION FROM PANEL "SMDD" SHALL BE EXTENDED TO NEW SWITCHBOARD. REFER TO PANEL SCHEDULES, SINGLE LINE DIAGRAMS AND SWITCHBOARD ELEVATION FOR ADDITIONAL INFORMATION.

- 1 REMOVE AND DISPOSE OF EXISTING DOOR, FRAME, HARDWARE, TRIM AND SADDLE. REMOVAL SHALL INCLUDE BUT NOT BE LIMITED TO ALL DEVICES USED TO SECURE DOOR AND FRAME IN PLACE.
- 2 SAWCUT, REMOVE, AND DISPOSE OF EXISTING WALL CONSTRUCTION IN ITS ENTIRETY. PREPARE EXISTING FLOOR, WALL AND CEILING STRUCTURAL FRAMING AND DECK TO RECEIVE NEW CONSTRUCTION AS SCHEDULED. PATCH EXISTING FLOOR, WALL AND CEILING IN AREAS WHERE WALLS ARE REMOVED WITH MATERIALS AND FINISHES TO MATCH EXISTING ADJACENT CONSTRUCTION.
- 3 EXISTING WALL AND FINISHES IN ADJACENT SPACES TO REMAIN. ANY DISTURBANCE OR DAMAGE TO ADJACENT FINISHES IN THE AREA OF WORK SHALL BE REPAIRED TO MATCH EXISTING AT NO COST TO DISTRICT, TYPICAL FOR ALL.

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1 Electrical Partial First Floor Demolition Plan A
SCALE: 1/8"=1'-0"

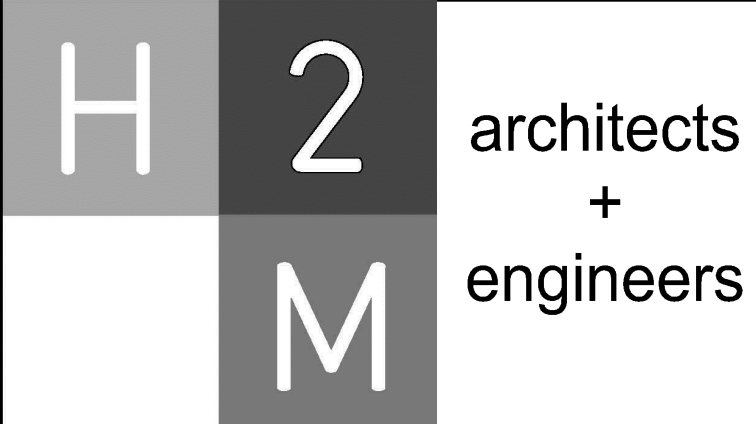
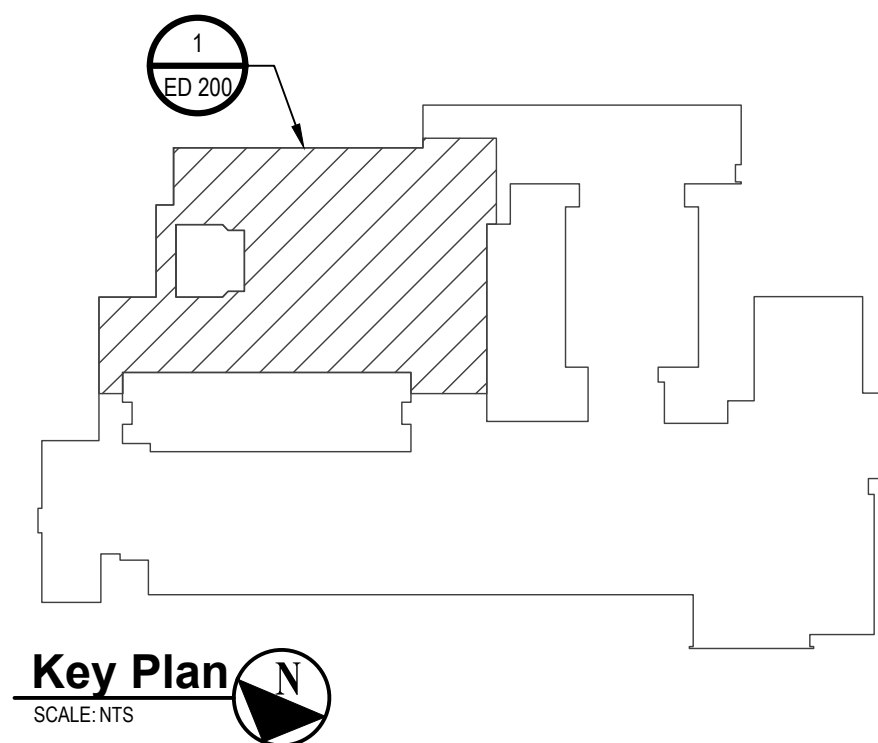
LEGEND	
	- REMOVE AND DISPOSE OF ITEM IDENTIFIED, U.O.N.

ELECTRICAL DEMOLITION GENERAL NOTES:

- GD1. REMOVE AND DISPOSE OF INCLUDES REMOVAL OF ITEM IDENTIFIED INCLUDING ALL CONDUITS, WIRES AND CABLES, BACK TO SOURCE UNLESS OTHERWISE NOTED.
- GD2. CONTRACTOR SHALL BE REQUIRED TO MAINTAIN CIRCUIT CONTINUITY FOR ALL EXISTING DEVICES ON A CIRCUIT WHEN THE DRAWINGS CALL FOR REMOVAL AND/OR DISPOSAL OF A DEVICE ON THAT CIRCUIT.
- GD3. ALL CONDUITS SPECIFIED TO BE REMOVED SHALL BE CUT FLUSH WITH THE SURFACE AND SURFACE SHALL BE PATCHED UNLESS OTHERWISE NOTED. SURFACE SHALL BE PRIMED AND PAINTED TO MATCH EXISTING.
- GD4. WHERE CONDUITS AND WIRING PASS THROUGH WORK AREA AND/OR ARE SCHEDULED TO REMAIN, CONTRACTOR SHALL REROUTE EXISTING CONDUIT AND WIRING, PROVIDE CONDUIT, WIRE, AND JUNCTION BOXES AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. COORDINATE WITH OTHER TRADES IS REQUIRED.
- GD5. CONTRACTOR SHALL NOTIFY FIRE ALARM MONITORING COMPANY PRIOR TO INSTALLING, RELOCATING AND/OR MODIFYING EXISTING AND/OR NEW FIRE ALARM DEVICES. PROGRAM SYSTEM AS REQUIRED TO INSTALL NEW DEVICES.

ELECTRICAL DEMOLITION KEY NOTE:

- D1. CONTRACT "M" SHALL REMOVE AND DISPOSE OF EXISTING EQUIPMENT. CONTRACT "E" SHALL REMOVE AND DISPOSE OF ALL ELECTRICAL EQUIPMENT ASSOCIATED WITH THE EXISTING HVAC EQUIPMENT SCHEDULED FOR DEMOLITION INCLUDING BUT NOT LIMITED TO DISCONNECT SWITCHES, MOTOR STARTERS, ASSOCIATED FIRE ALARM DEVICES, WIRE AND CONDUIT BACK TO SOURCE. REFER TO CONTRACT "M" DRAWINGS FOR ADDITIONAL INFORMATION.



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DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
PROJECT NO: WPSP 2204	DATE: OCTOBER 2023	SCALE:	

CLIENT
White Plains City School District

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



225 Ridgeway
White Plains, NY 10605

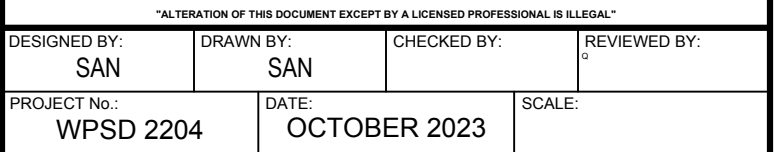
**SED PROJECT CONTROL
NO. 66-22-00-01-0-014-017**

CONTRACT
**CONTRACT E
ELECTRICAL CONSTRUCTION**

STATUS
FINAL BID DOCUMENT

SHEET TITLE
**ELECTRICAL PARTIAL FIRST
FLOOR DEMOLITION PLAN A**

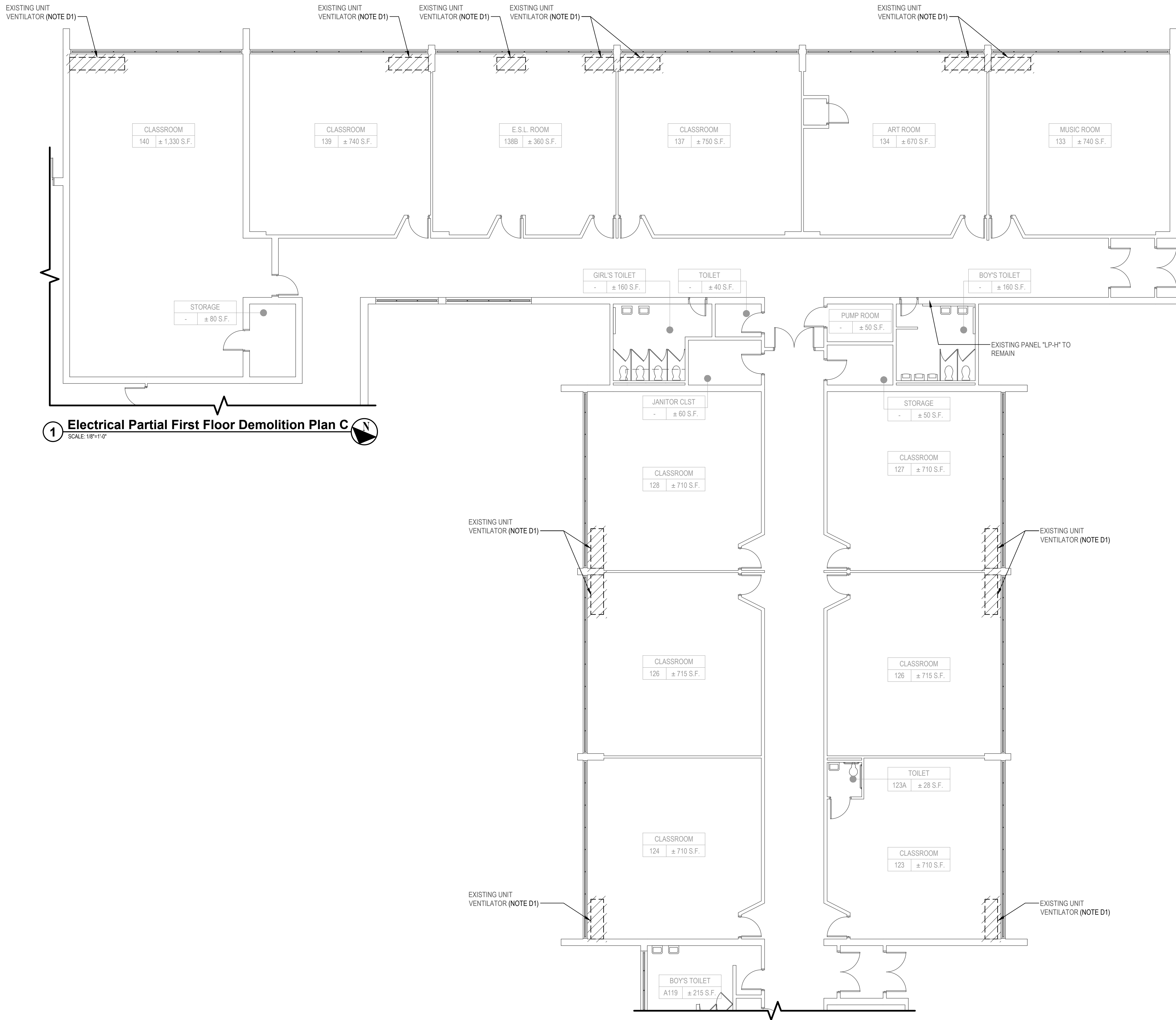
DRAWING NO.
ED 200.00

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ED 201.00



X:\WPSP\White Plains Central School District - 10851\WPSP 2204 - AC & Ventilators at Ridgeway Elem School\02 BIM\CADD\Civil\Demolition Plan C.dwg Last Modified: Sep 28, 2023 - 10:13am Plotted on: Oct 13, 2023 - 4:52pm By: Lin



1 Electrical Partial First Floor Demolition Plan C
SCALE: 1/8"=1'-0"

LEGEND

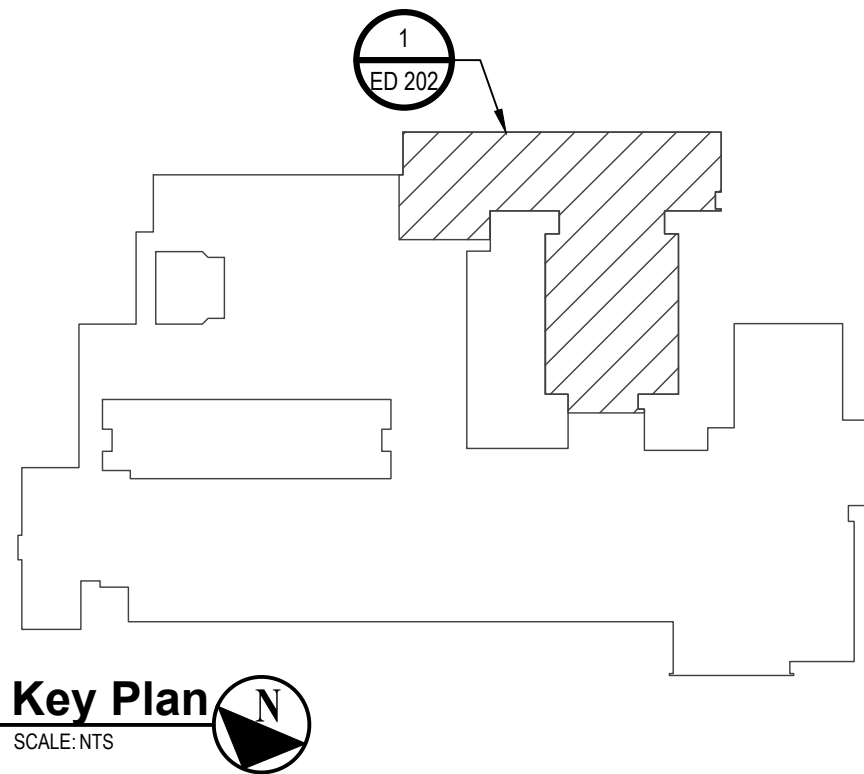
- REMOVE AND DISPOSE OF ITEM IDENTIFIED, U.O.N.

ELECTRICAL DEMOLITION GENERAL NOTES:

- GD1. REMOVE AND DISPOSE OF INCLUDES REMOVAL OF ITEM IDENTIFIED INCLUDING ALL CONDUITS, WIRES AND CABLES, BACK TO SOURCE UNLESS OTHERWISE NOTED.
- GD2. CONTRACTOR SHALL BE REQUIRED TO MAINTAIN CIRCUIT CONTINUITY FOR ALL EXISTING DEVICES ON A CIRCUIT WHEN THE DRAWINGS CALL FOR REMOVAL AND/OR DISPOSAL OF A DEVICE ON THAT CIRCUIT.
- GD3. ALL CONDUITS SPECIFIED TO BE REMOVED SHALL BE CUT FLUSH WITH THE SURFACE AND SURFACE SHALL BE PATCHED UNLESS OTHERWISE NOTED. SURFACE SHALL BE PRIMED AND PAINTED TO MATCH EXISTING.
- GD4. WHERE CONDUITS AND WIRING PASS THROUGH WORK AREA AND/OR ARE SCHEDULED TO REMAIN, CONTRACTOR SHALL REROUTE EXISTING CONDUIT AND WIRING. PROVIDE CONDUIT, WIRE, AND JUNCTION BOXES AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. COORDINATE WITH OTHER TRADES IS REQUIRED.
- GD5. CONTRACTOR SHALL NOTIFY FIRE ALARM MONITORING COMPANY PRIOR TO INSTALLING, RELOCATING AND/OR MODIFYING EXISTING AND/OR NEW FIRE ALARM DEVICES. PROGRAM SYSTEM AS REQUIRED TO INSTALL NEW DEVICES.

ELECTRICAL DEMOLITION KEY NOTE:

- D1. CONTRACT 'M' SHALL REMOVE AND DISPOSE OF EXISTING EQUIPMENT. CONTRACT 'E' SHALL REMOVE AND DISPOSE OF ALL ELECTRICAL EQUIPMENT ASSOCIATED WITH THE EXISTING HVAC EQUIPMENT SCHEDULED FOR DEMOLITION INCLUDING BUT NOT LIMITED TO DISCONNECT SWITCHES, MOTOR STARTERS, ASSOCIATED FIRE ALARM DEVICES, WIRE AND CONDUIT BACK TO SOURCE. REFER TO CONTRACT 'M' DRAWINGS FOR ADDITIONAL INFORMATION.



Key Plan
SCALE: NTS

H2M

architects
+
engineers

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Purchase, NY 10577
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CONSULTANTS:

MARK	DATE	DESCRIPTION
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STATE OF NEW YORK
LIBERTY
PROFESSIONAL ENGINEER
192563

DESIGNED BY:

DRAWN BY:

CHECKED BY:

REVIEWED BY:

PROJECT NO:

DATE:

SCALE:

WPSP 2204

OCTOBER 2023

CLIENT

White Plains City School District

AC and Ventilation Upgrades at Ridgeway Elementary School

White Plains Public Schools

WP

REAL LIFE LEARNING

225 Ridgeway
White Plains, NY 10605

SED PROJECT CONTROL
NO. 66-22-00-01-0-014-017

CONTRACT

CONTRACT E
ELECTRICAL CONSTRUCTION

STATUS

FINAL BID DOCUMENT

SHEET TITLE

ELECTRICAL PARTIAL FIRST FLOOR DEMOLITION PLAN C

DRAWING No.

ED 202.00

MARK	DATE	DESCRIPTION
	10-16-23	FINAL BID DOCUMENT

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**White Plains City
School District**



SED PROJECT CONTROL
NO. 66-22-00-01-0-014-017

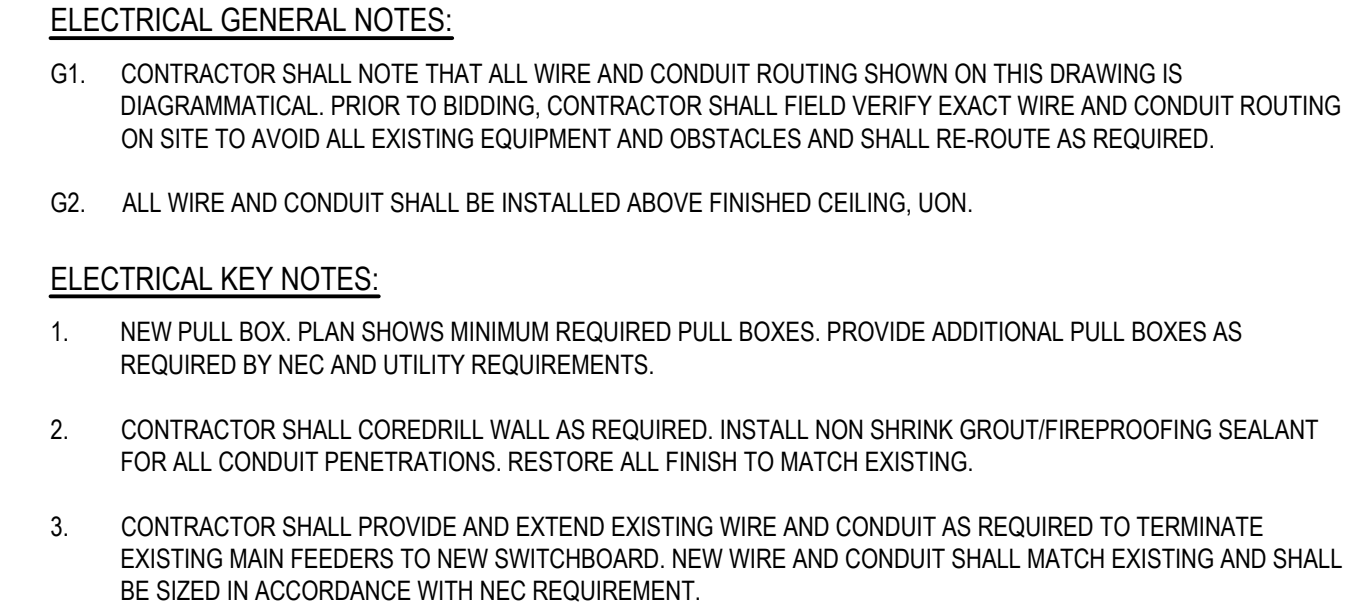
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STATUS	FINAL BID DOCUMENT
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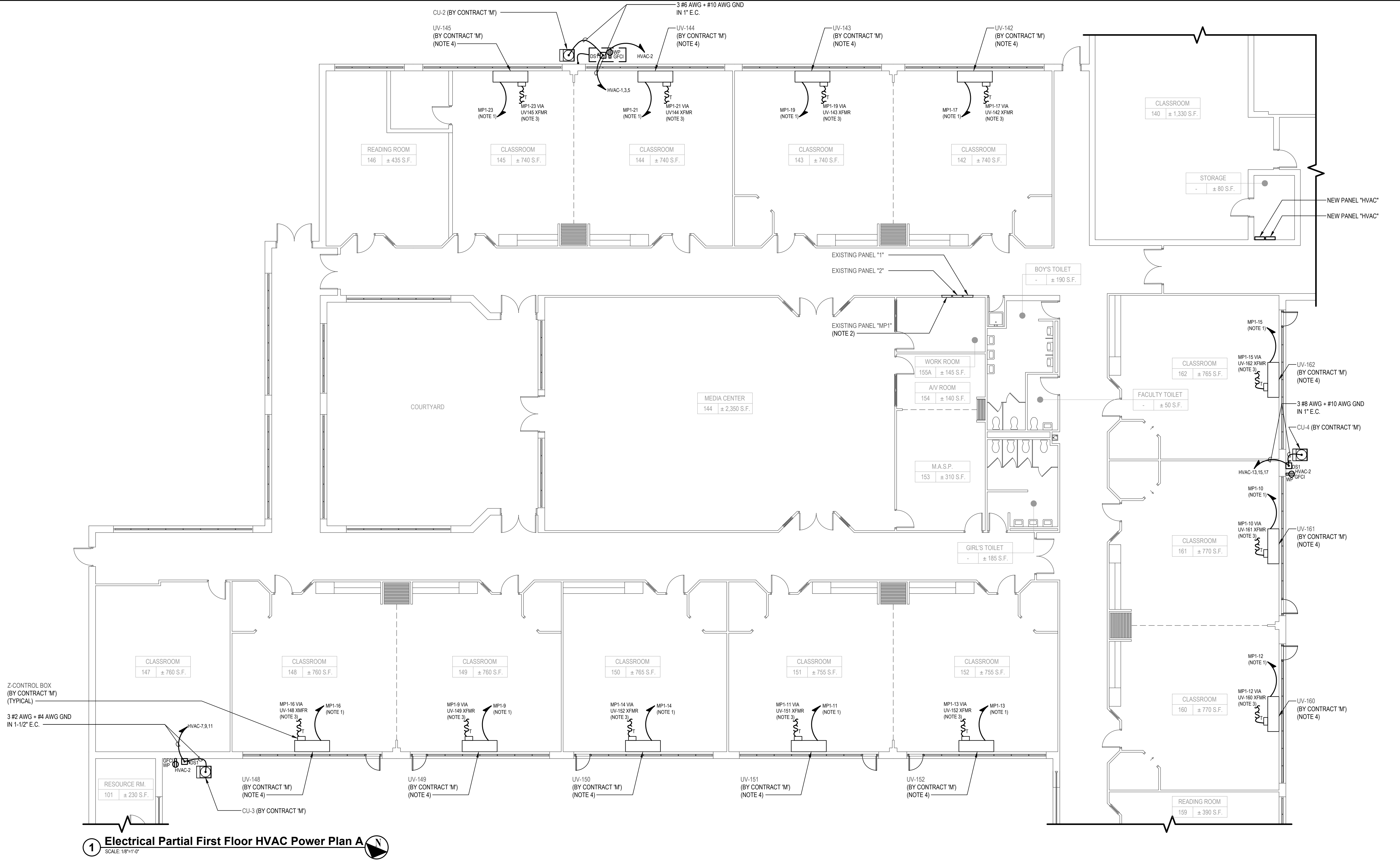
SHEET TITLE

**ELECTRICAL FIRST FLOOR FULL
BUILDING POWER PLAN**

DRAWING No. **E 100.00**



X:\WPSP\White Plains Central School District - 1001\WPSP 2204 - AC & Ventilation at Ridgeway Elem School\02 BIM\CAD\Drawings\02 E-200 Electrical Partial First Floor HVAC Power Plan.dwg, Last Modified: Sep 28, 2023 - 10:05pm, Plotted on Oct 13, 2023 - 4:23pm By JLU



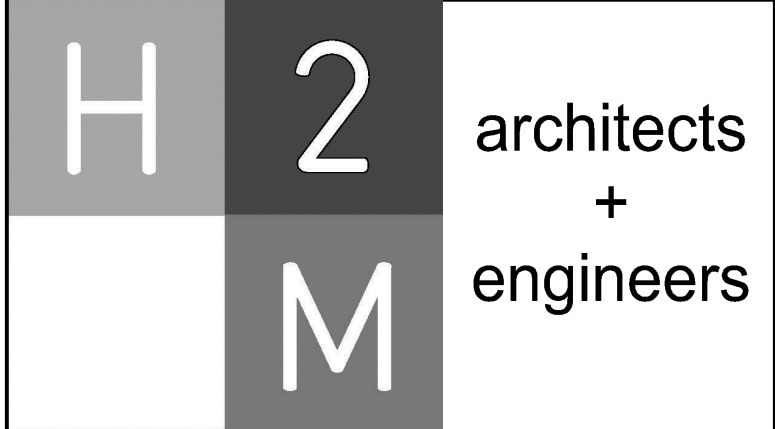
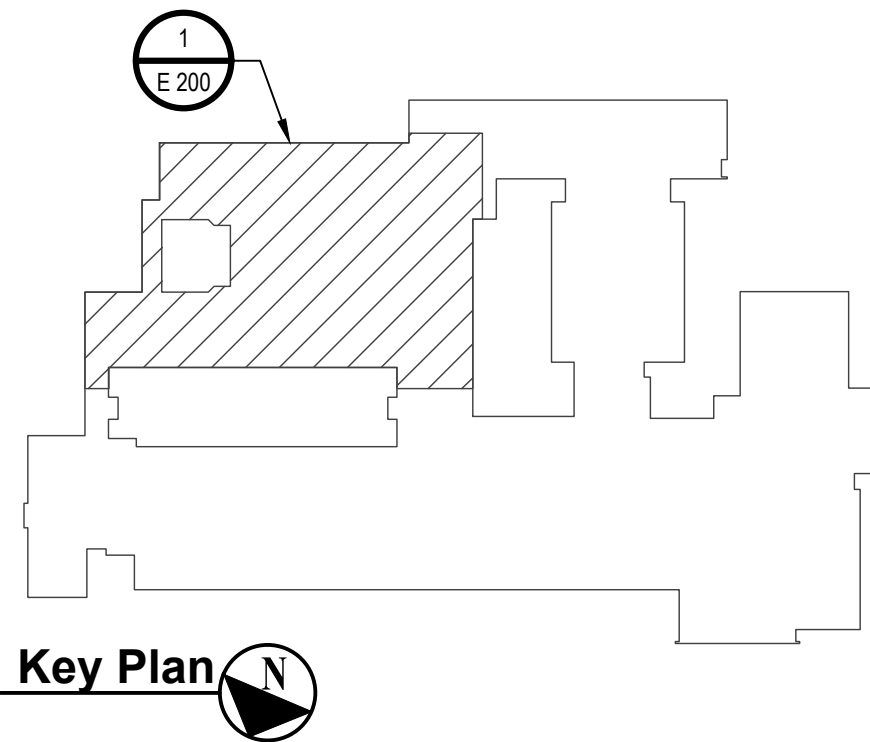
1 Electrical Partial First Floor HVAC Power Plan A
SCALE: 1/8"=1'-0"

ELECTRICAL GENERAL NOTE:

G1. REFER TO DRAWING E 100 FOR ADDITIONAL INFORMATION FOR NEW PANELS.

ELECTRICAL KEY NOTES:

- CONTRACTOR SHALL PROVIDE AND INSTALL A NEW 15A/1P CIRCUIT BREAKER IN EXISTING PANEL. PROVIDE AND INSTALL ALL MOUNTING HARDWARE. NEW CIRCUIT BREAKER SHALL BE LISTED/LABELED FOR USE IN EXISTING PANEL. AMPERE INTERRUPTING CAPACITY (AIC) RATING SHALL MATCH OR EXCEED EXISTING PANEL RATING.
- CONTRACTOR SHALL CUT BLOCK WALL/PLASTER WALL AS REQUIRED TO RECESS NEW CONDUIT ABOVE PANEL. PATCH, PRIME AND PAINT WALL TO MATCH EXISTING.
- CONTRACTOR SHALL NOTE TRANSFORMER IS PROVIDED FOR ALL Z-CONTROL BOX IN ASSOCIATED UNIT VENTILATOR. PROVIDE AND INSTALL ALL WIRE AND CONDUIT AS REQUIRED FOR A FULLY FUNCTIONING SYSTEM. REFER TO CONTRACT 'M' DRAWINGS AND SCHEDULES FOR ADDITIONAL INFORMATION.
- MANUFACTURER PROVIDED DISCONNECT SWITCH.



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PROJECT NO: WPSP 2204	DATE: OCTOBER 2023	SCALE:	

White Plains City School District

AC and Ventilation Upgrades at Ridgeway Elementary School

225 Ridgeway
White Plains, NY 10605

**SED PROJECT CONTROL
NO. 66-22-00-01-0-014-017**

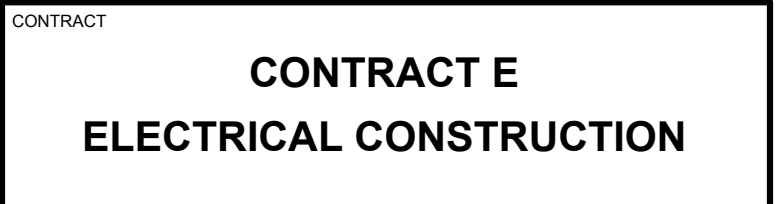
CONTRACT
**CONTRACT E
ELECTRICAL CONSTRUCTION**

STATUS
FINAL BID DOCUMENT

SHEET TITLE
ELECTRICAL PARTIAL FIRST FLOOR HVAC POWER PLAN A

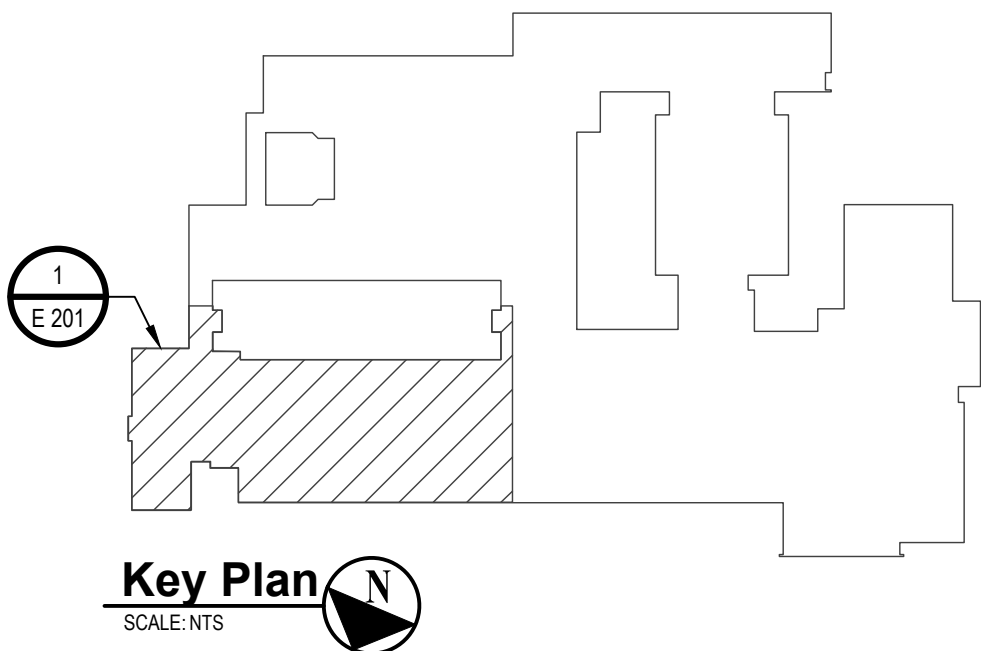
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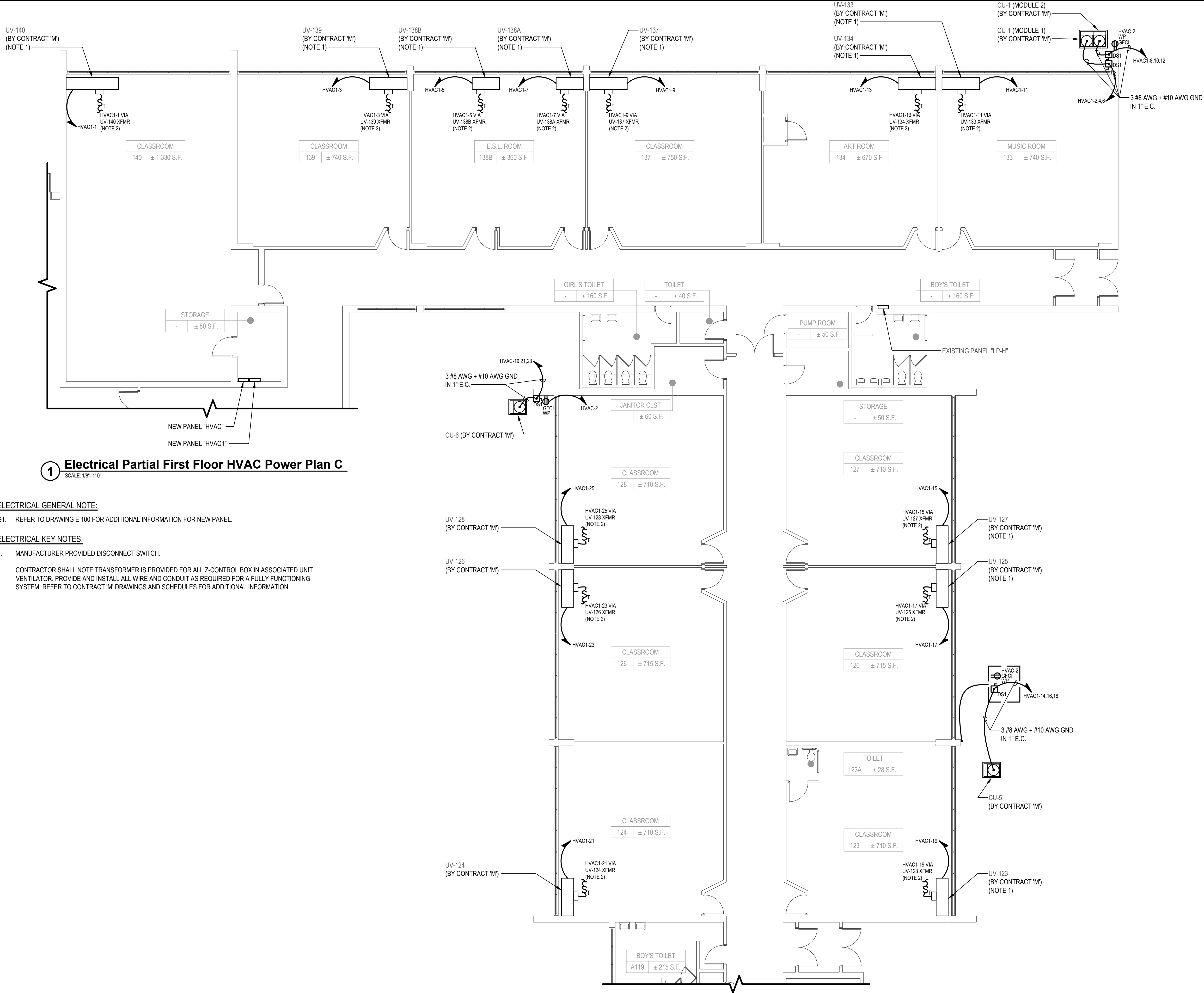
SHEET TITLE

**ELECTRICAL PARTIAL FIRST
FLOOR HVAC POWER PLAN B**



1. MANUFACTURER PROVIDED DISCONNECT SWITCH.
2. CONTRACTOR SHALL NOTE TRANSFORMER IS PROVIDED FOR ALL Z-CONTROL BOX IN ASSOCIATED UNIT VENTILATOR. PROVIDE AND INSTALL ALL WIRE AND CONDUIT AS REQUIRED FOR A FULLY FUNCTIONING SYSTEM. REFER TO CONTRACT 'M' DRAWINGS AND SCHEDULES FOR ADDITIONAL INFORMATION.

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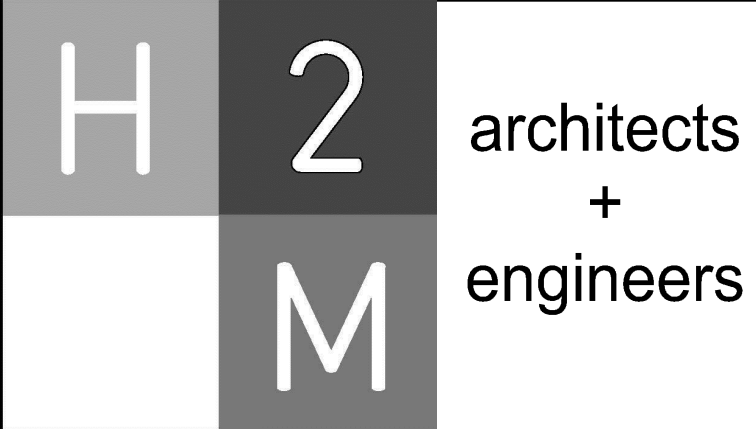
1 Electrical Partial First Floor HVAC Power Plan C
SCALE: 1/8"=1'-0"

ELECTRICAL GENERAL NOTE:

G1. REFER TO DRAWING E 100 FOR ADDITIONAL INFORMATION FOR NEW PANEL.

ELECTRICAL KEY NOTES:

- MANUFACTURER PROVIDED DISCONNECT SWITCH.
- CONTRACTOR SHALL NOTE TRANSFORMER IS PROVIDED FOR ALL Z-CONTROL BOX IN ASSOCIATED UNIT VENTILATOR. PROVIDE AND INSTALL ALL WIRE AND CONDUIT AS REQUIRED FOR A FULLY FUNCTIONING SYSTEM. REFER TO CONTRACT 'M' DRAWINGS AND SCHEDULES FOR ADDITIONAL INFORMATION.



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DESIGNED BY: SAN	DRAWN BY: SAN	CHECKED BY:	REVIEWED BY:
PROJECT NO: WPSP 2204	DATE: OCTOBER 2023	SCALE:	

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White Plains City School District

AC and Ventilation Upgrades at Ridgeway Elementary School



**225 Ridgeway
White Plains, NY 10605**

**SED PROJECT CONTROL
NO. 66-22-00-01-0-014-017**

CONTRACT
CONTRACT E ELECTRICAL CONSTRUCTION

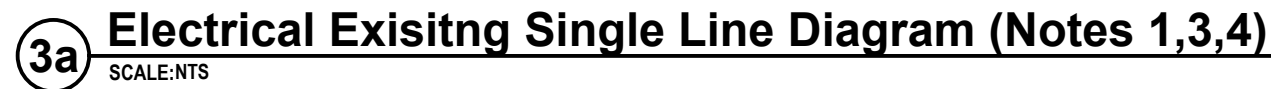
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FINAL BID DOCUMENT

SHEET TITLE
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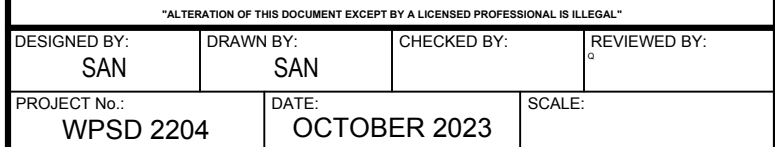
DRAWING No.
E 202.00



1. CONTRACTOR SHALL PRIME AND PAINT HORIZONTAL SURFACE OF CONCRETE PAD BEFORE INSTALLING EQUIPMENT. COORDINATE EXACT PAINT COLOR WITH ENGINEER AND OWNER. VERTICAL SURFACE ON CONCRETE PAD SHALL BE FINISHED IN SAME MANNER AS SURROUNDING FLOOR SURFACE.



1. NOT ALL EXISTING CIRCUITS ARE SHOWN IN EXISTING AND NEW PARTIAL SINGLE LINE DIAGRAM FOR CLARITY PURPOSES. REFER TO FLOOR PLANS FOR ADDITIONAL INFORMATION.
2. CONTRACTOR SHALL PROVIDE AND INSTALL MAIN CIRCUIT BREAKER WITH ARC REDUCTION MAINTENANCE SWITCH AS PER NEC 2017 240.87 REQUIREMENT.
3. CONTRACTOR SHALL VERIFY EXACT RATINGS AND NUMBER OF POLES OF ALL EXISTING FUSES PRIOR TO PROVIDING AND INSTALLING NEW CIRCUIT BREAKERS IN NEW SWITCHBOARD.
4. PRIOR TO OPERATING THE BOLTED PRESSURE SWITCH CONTRACTOR SHALL HIRE AND PAY FOR ALL SERVICES FROM ELEMCO OR APPROVED EQUAL TO TEST EXISTING BOLTED PRESSURE SWITCH PRIOR TO DE-ENERGIZING EXISTING ELECTRICAL SERVICE.
5. CONTRACTOR SHALL PROVIDE AND EXTEND WIRE AND CONDUIT TO TERMINATE EXISTING FEEDERS ONTO NEW SWITCHBOARD.
6. CONTRACTOR SHALL PROVIDE AND INSTALL ALL FUSE LIMITER AS PER CON EDISON REQUIREMENTS.



DRAWING No. **E 300.00**

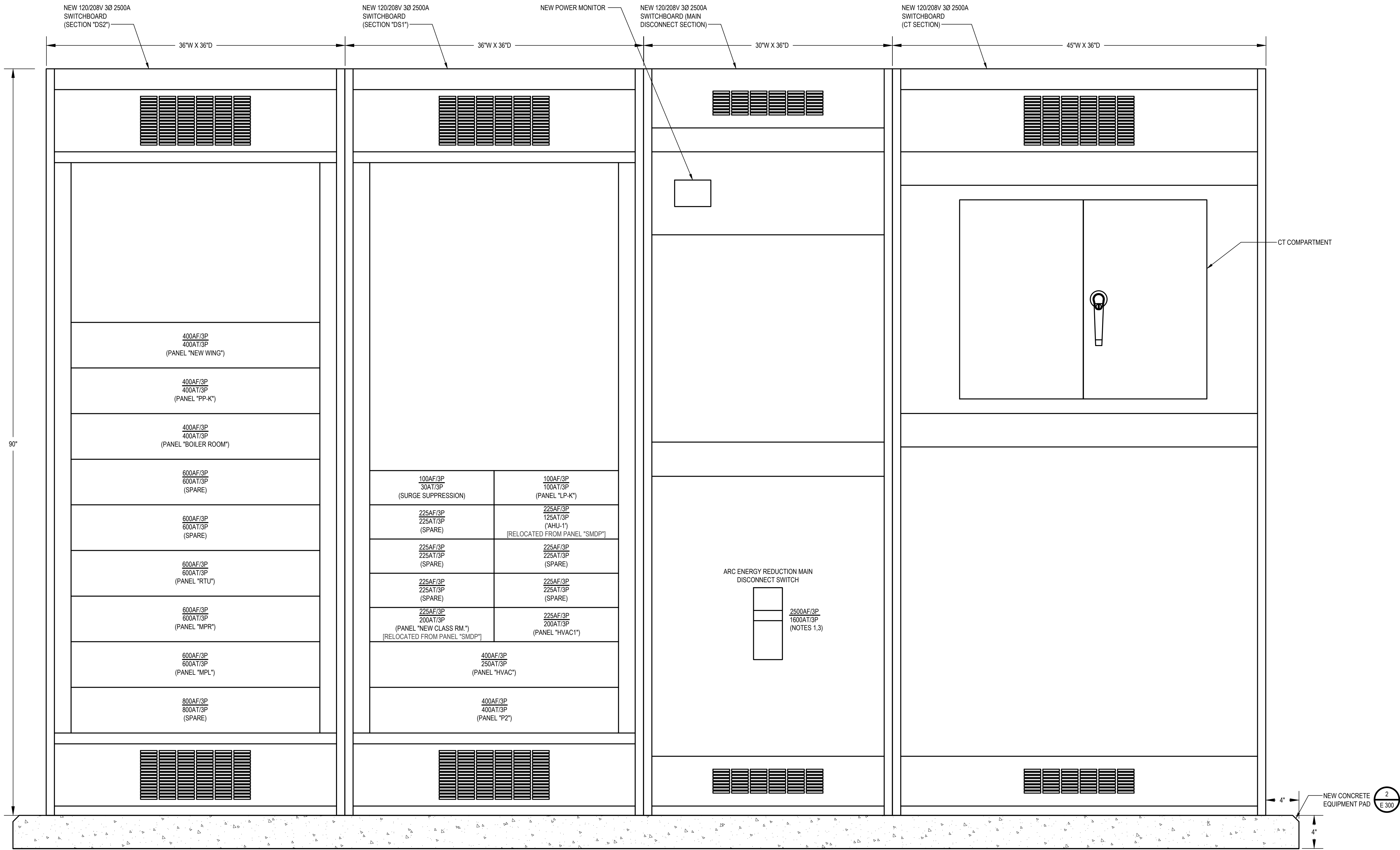
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Panel Wiring Schedule (3-Phase)																			
Panelboard		MP1 (EXISTING)		Voltage		120/208		Phase		3		Wire		4		AIC Rating		EXISTING	
Manufacturer		EATON		Mains		60A MCB		Mains Rating		100A		Options				Note		NOTE 1	
Panel Type		PRL1A		Mounting		RECESSED		Options											
NEMA Type Enclosure		1																	
LOAD DESCRIPTION	BREAKER OPTION	TRIP AMPS & POLES	CONNECTED LOAD			CIRC. NO.	A	B	C	NO	CONNECTED LOAD			TRIP AMPS & POLES	BREAKER OPTION	LOAD DESCRIPTION			
			VOLT AMPERES								VOLT AMPERES								
			Ø A	Ø B	Ø C						Ø A	Ø B	Ø C						
EXISTING MAIN CIRCUIT BREAKER		60A/3P	-	-	-	-				-	-	-	-			BLANK			
			-	-	-	-				-	-	-	-			BLANK			
EXISTING		15A/2P	-	-	-	1				2	-	-	-	15A/2P		BLANK			
			-	-	-	3				4	-	-	-			BLANK			
EXISTING		25A/2P	-	-	-	5				6	-	-	-			BLANK			
			-	-	-	7				8	-	-	-	15A/2P		EXISTING			
UV-149	HACR	15A/1P	-	756	-	9				10	-	756	-	15A/1P		UV-161			
UV-151	HACR	15A/1P	-	-	756	11				12	-	-	756	15A/1P		UV-160			
UV-152	HACR	15A/1P	756	-	-	13				14	756	-	-	15A/1P		UV-150			
UV-162	HACR	15A/1P	-	756	-	15				16	-	756	-	15A/1P		UV-148			
UV-142	HACR	15A/1P	-	-	756	17				18	-	-	-	-		BLANK			
UV-143	HACR	15A/1P	-	756	-	19				20	-	-	-	-		BLANK			
UV-144	HACR	15A/1P	-	756	-	21				22	-	-	-	-		BLANK			
UV-145	HACR	15A/1P	-	-	756	23				24	-	-	-	-		BLANK			
Breaker Options:																			
AS - Powerlink AS Breaker																			
LO - Handle lock-off device																			
ST - Shunt Trip Type																			
AUX - Auxiliary Contacts																			
PA - Handle Padlock Attachment																			
GFCI - Ground Fault Circuit Interrupter																			
HACR - Heating, A/C & Refrigeration																			
SF - Subfeed																			
TC - Time Clock Control																			
Connected Totals:																			
ØA EXISTING_KVA																			
ØB EXISTING_KVA																			
ØC EXISTING_KVA																			
(All Phases to be balanced to within 7% using Actual Load Totals.)																			
Total EXISTING_KVA																			
EXISTING_Ampers																			

Panel Wiring Schedule (3-Phase)																	
Panelboard		P2		Voltage		120/208		Phase		3		Wire		AIC Rating		22,000	
Manufacturer		EATON		Maine		MLO		Maine Rating		600A		Options		Note		NOTE 1	
Panel Type		PRL2A		Mounting		SURFACE		Options		-		Note		NOTE 1			
NEMA Type Enclosure		1															
LOAD DESCRIPTION	BREAKER OPTION	TRIP AMPS & POLES	CONNECTED LOAD			CIRC. NO.	A	B	C	CONNECTED LOAD			TRIP AMPS & POLES	BREAKER OPTION	LOAD DESCRIPTION		
			VOLT AMPERES							VOLT AMPERES							
			Ø A	Ø B	Ø C					Ø A	Ø B	Ø C					
CU-7 (MODULE 1)	HACR	45A/3P	4356			1				2	8760		80A/3P	HACR	UV-102		
			4356	4356		3				4							
					4356	5				6	8760		8760				
			3312			7				8	8760						
CU-7 (MODULE 2)	HACR	35A/3P		3312		9				10	8760		80A/3P	HACR	UV-103		
					3312	11				12		8760					
			4356			13				14	756						
				4356		15				16		756					
CU-8 (MODULE 1)	HACR	45A/3P			4356	17				18		756	15A/1P		UV-104		
			3312			19				20	756						
				3312		21				22		756					
					3312	23				24	15A/1P	756					
CU-8 (MODULE 2)	HACR	35A/3P				25				26	756		15A/1P		UV-107		
			1716			27				28		756					
				1716		29				30		756					
					1716	31				32	-		20A/1P				
CU-10	HACR	25A/2P				33				34	-		20A/1P		SPARE		
				720		35				36	-		20A/1P				
					-	37				38	-		20A/1P				
					-	39				40	-		20A/1P				
CONVENIENCE RECEPTACLES		20A/1P			-	41				42	-		20A/1P		SPARE		
					-												
					-												
					-												
Connected Totals:														Breaker Options:			
														AS - Powerlink AS Breaker			
														LO - Handle lock-off device			
														ST - Shunt Trip Type			
														AUX - Auxiliary Contacts			
														PA - Handle Padlock Attachment			
														GFCI - Ground Fault Circuit Interrupter			
														HACR - Heating, A/C & Refrigeration			
														SF - Subfeed			
														TC - Time Clock Control			
(All Phases to be balanced to within 7% using Actual Load Totals.)														Total 112.96 KVA 314 Amperes			

Panel Wiring Schedule (3-Phase)																			
Panelboard		HVAC		Voltage		120/208		Phase		3		Wire		4		AIC Rating		22,000	
Manufacturer		SIEMENS		Mains		MLO		Mains Rating		400A		Options				Note		NOTE 1	
Panel Type		P2		Mounting		SURFACE													
NEMA Type Enclosure		1																	
LOAD DESCRIPTION	BREAKER OPTION	TRIP AMPS & POLES	CONNECTED LOAD			CIRC NO	A	B	C	CONNECTED LOAD			TRIP AMPS & POLES	BREAKER OPTION	LOAD DESCRIPTION				
			VOLT AMPERES							VOLT AMPERES									
			Ø A	Ø B	Ø C					Ø A	Ø B	Ø C							
CU-2	HACR	60A/3P	6612			1				2	540	-	20A/1P		CONVENIENCE RECEPTACLES				
				6612		3				4	-	-	20A/1P		SPARE				
					6612	5				6	-	-	20A/1P		SPARE				
CU-3	HACR	60A/3P	6612			7				8	-	-	20A/1P		SPARE				
				6612		9				10	-	-	20A/1P		SPARE				
					6612	11				12	-	-	20A/1P		SPARE				
CU-4	HACR	45A/3P	4356			13				14	-	-	20A/1P		SPARE				
				4356		15				16	-	-	20A/1P		SPARE				
					4356	17				18	-	-	20A/1P		SPARE				
CU-6	HACR	45A/3P	4356			19				20	-	-	20A/1P		SPARE				
				4356		21				22	-	-	20A/1P		SPARE				
					4356	23				24	-	-	20A/1P		SPARE				
SPARE		20A/1P				25				26	-	-	20A/1P		SPARE				
SPARE		20A/1P				27				28	-	-	20A/1P		SPARE				
SPARE		20A/1P				29				30	-	-	20A/1P		SPARE				
Breaker Options: AS - Powerlink AS Breaker LO - Handle lock-off device ST - Shunt Trip Type AUX - Auxiliary Contacts PA - Handle Padlock Attachment GFCI - Ground Fault Circuit Interrupter HACR - Heating, A/C & Refrigeration SF - Subfeed TC - Time Clock Control																			
Connected Totals:						ØA	22.48	KVA											
						ØB	21.84	KVA											
						ØC	21.84	KVA											
(All Phases to be balanced to within 7% using Actual Load Totals.)						Total	66.36	KVA	185		Amperes								

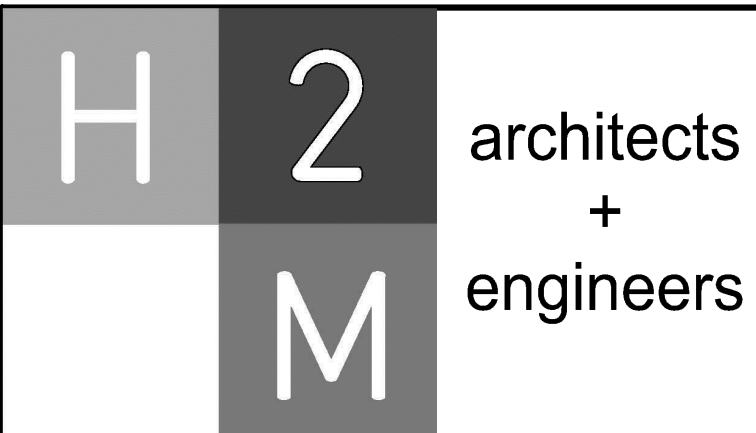
X:\WPSD\White Plains Central School District - 1001\WPSD 2204 - AC & Ventilation at Ridgeway Elem School\02 BIM\CAD\Drawings\Electrical\13 E 500 Electrical Switchboard Elevation.dwg, Last Modified: Oct 12, 2023 - 4:52pm By: LJA



1 Electrical Switchboard Elevation (Note 2)
SCALE: 2" = 1'-0"

ELECTRICAL SWITCHBOARD ELEVATION NOTES:

- CONTRACTOR SHALL PROVIDE AND INSTALL MAIN CIRCUIT BREAKER WITH ARC REDUCTION MAINTENANCE SWITCH AS PER NEC 240.87 REQUIREMENT.
- CONTRACTOR SHALL VERIFY EXACT RATINGS AND NUMBER OF POLES OF ALL EXISTING FUSES PRIOR TO PROVIDING AND INSTALLING NEW CIRCUIT BREAKERS IN NEW SWITCHBOARD.
- CONTRACTOR SHALL NOTE NEW EXISTING UTILITY TRANSFORMER AND SERVICE SIZE IS FOR A 1600A. NEW SWITCHBOARD SHALL BE SIZED FOR A 2500A WITH THE MAIN SET TO 1600A TRIP. PROVIDE AND INSTALL A PHENOLIC NAMEPLATE STATING "MAIN CIRCUIT BREAKER SHALL BE SET TO 1600A, DO NOT ADJUST THE TRIP SETTING".



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PROJECT NO: WPSD 2204	DATE: OCTOBER 2023	SCALE:	

CLIENT

White Plains City School District

AC and Ventilation Upgrades at
Ridgeway Elementary School



225 Ridgeway
White Plains, NY 10605

SED PROJECT CONTROL
NO. 66-22-00-01-0-014-017

CONTRACT
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STATUS
FINAL BID DOCUMENT

SHEET TITLE
ELECTRICAL SWITCHBOARD ELEVATION

DRAWING No.
E 500.00