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 -

ABBREVIATIONS GENERAL NOTES Anchor Bolt ALL WORK SHALL COMPLY WITH THE NEW YORK STATE FIRE PREVENTION AND BUILDING AR FIN Finish A/C ACI Fire Retardent Air Conditioning FR WELL AS THE NEW YORK STATE EDUCATION DEPARTMENT MANUAL OF PLANNING STANDA Footing Gauge American Concrete Institute FTG ACST ACT Acoustic GA ALL NOTES APPEARING HEREIN, WITH THOSE ON VARIOUS DRAWINGS SHALL APP Acoustical Ceiling Tile GWB GYP Gypsum Wall Board ACU AD DRAWINGS AND FORM PART OF THE CONTRACT DOCUMENTS Air Conditioning Uni Gypsum Access Door GYP. BD Gypsum Board ADJ Adiustable Handicapped IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY ALL DIMENSIONS, SQUARE A/E Architect/Enginee Hollow Metal LOCATIONS AND QUANTITIES OF ALL ITEMS AND/OR SPACES WHETHER INDICATED IN THE AFF Above Finish Floor HOR Horizontal OR NOT. ALUM ANCH ANSI Aluminum Hot Water HW Anchor INSUL Insulation/Insulating American National Standards Institute DO NOT SCALE MEASURE ANY DRAWING. VERIFY THE FIGURES, DIMENSIONS AN nterior APA Access Panel Lavatorv INTENTION SHOWN ON THE DRAWINGS BEFORE BEGINNING LAYOUT OF THE WORK AN APPROX Approximately I DR Leader ANY ERRORS, INACCURACIES, OR CONFLICTS TO THE ARCHITECT/ENGINEER IN WRITI ASPH Asphalt Light ASTM BEGINNING ANY WORK. American Society for Maximum MAX Testing & Materials MECH Mechanical AWS American Welding Society ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, LAWS AND STATUTES AS MISC Fire Blanket Miscellaneous STRICTLY ADHERE TO MANUFACTURER'S PRINTED INSTRUCTIONS. Balance MO Masonry Opening Bulletin Board MR Moisture Resistant BD BLDG VERIFY EXACT LAYOUT COMPATIBILITY WITH ALL EXISTING CONDITIONS BEFORE BEGINNI Board Not in Contract Building NTS Not to Scale BLK Block Blocking On Center DISTURB ONLY THOSE AREAS OF THE SITE AFFECTED BY RENOVATION, UNLESS NOTED C BLKG Outside Diameter PROTECT ALL OTHER AREAS. CONTRACTORS SHALL BE RESPONSIBLE FOR ALL PATCH A Beam Bottom Of BM B.O. PLYWD Plywood OF EXISTING FINISHES WHICH ARE DAMAGED DURING CONSTRUCTION. PSF Pounds per Square Foot BOL Bottom Of Lintel Pounds per Square Inch BOT Bottom EACH CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF ANSI AND PROVI Painted CEIL CEM Ceiling Cement PVC Polyvinyl Chloride APPLICABLE ADA COMPLIANT BUILDING COMPONENTS. Radius or Riser Ceramic Reflected Ceiling Plan THE OWNER RESERVES THE RIGHT AT ALL TIMES TO DELIVER, PLACE AND INSTALL EQUIP CLO Closet Roof Drain CMU Concrete Masonry Unit Reinforced REINF FURNISHINGS AS THE WORK PROGRESSES SO LONG AS THERE IS NOT A CONFLICT COL Column RM Room CONTRACTORS. CONC CONST Concrete Rough Opening Construction Simila THE CONTRACTOR SHALL MAINTAIN AT THE SITE ONE RECORD COPY OF ALL I CONT SPEC Specifications Continuous CORR CPT SPECIFICATIONS AND APPROVED SHOP DRAWINGS AND APPROVED SAMPLES MARKED CI Corridor Square Carpet Stainless Steel TO RECORD ALL CHANGES DURING CONSTRUCTION. STL DS Downspout Steel DW DWG Dishwasher TEMP Temperature ANY CHANGES TO THE SCOPE OF WORK OR IN THE CONSTRUCTION DETAILS, WHETHE Drawing ter Thk Terrazzo FIELD CONDITIONS OR OMISSION SHALL BE DOCUMENTED BY THE ARCHITECT PRIOR TO E Each FA Thick ANY INCREASE OR DECREASE IN THE CONTRACT PRICE MUST BE APPROVED IN WRITING Elevation TYP Typical ELEC Electric/Electrical EXECUTION. UTIL Utility ELEV Elevator Vapor Barrier Electrical Panel VCT VERT Vinyl Composition Tile Epoxy Coating Vertical Equal VTR WC ĒÕUIP Vent Thru Roof Equipment Water Closet EXIST Existing Exhaust EXST Water Heater WWF Welded Wire Fabric Fresh Air Intake FAI Fire Code F.C FD Floor Drain **UNIFORM SAFETY STANDARDS - FOR SCHOOL CONSTRUCTION AND MAINTENANCE PROJECTS** SYMBOLS LEGEND LOCATION MAPS "THE OCCUPIED PORTION OF ANY SCHOOL BUILDING SHALL 4. "SEPARATION OF CONSTRUCTION AREAS FROM OCCUPIED ALWAYS COMPLY WITH THE MINIMUM REQUIREMENTS SPACES: CONSTRUCTION AREAS WHICH ARE UNDER THE NECESSARY TO MAINTAIN A CERTIFICATE OF OCCUPANCY." CONTROL OF A CONTRACTOR AND THEREFORE NOT OCCUPIED



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

	DRAWING LIST	
G CODE AS RDS. Y TO ALL	INFORMATIONAL DRAWINGS G.000.00 GENERAL NOTES, MAPS, DRAWING LIST & LEGENDS G100.00 EXISTING GROUND FLOOR PLAN G101.00 EXISTING FIRST FLOOR PLAN	EXISTING ASPHALT
OOTAGES, DRAWINGS D DESIGN D REPORT G BEFORE	G102.00 EXISTING SECOND FLOOR PLAN MECHANICAL DRAWINGS M001.00 HVAC LEGENDS, SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES M100.00 MECHANICAL GROUND FLOOR PLAN PART A M101.00 MECHANICAL GROUND FLOOR PLAN PART B M110.00 MECHANICAL FIRST FLOOR PLAN PART A M111.00 MECHANICAL FIRST FLOOR PLAN PART B M120.00 MECHANICAL SECOND FLOOR PART A M121.00 MECHANICAL SECOND FLOOR PLAN PART B M140.00 MECHANICAL SOF PLAN PART A M141.00 MECHANICAL ROOF PLAN PART B M140.00 MECHANICAL ROOF PLAN PART B M140.00 MECHANICAL ROOF PLAN PART B M500.00 HVAC DETAILS [1 OF 2] M501.00 HVAC DETAILS [2 OF 2]	EXISTING GRASS AREA
ig work. Iherwise. Nd repair	M600.00 MECHANICAL SCHEDULE [1 OF 4] M601.00 MECHANICAL SCHEDULE [2 OF 4] M602.00 MECHANICAL SCHEDULE [3 OF 4] M603.00 MECHANICAL SCHEDULE [4 OF 4] MD100.00 MECHANICAL GROUND FLOOR PLAN PART A MD101.00 MECHANICAL GROUND FLOOR PLAN PART B MD110.00 MECHANICAL FIRST FLOOR PLAN PART A MD111.00 MECHANICAL FIRST FLOOR PLAN PART B	
DE WHERE	MD120.00 MECHANICAL SECOND FLOOR PLAN PART A MD121.00 MECHANICAL SECOND FLOOR PLAN PART B MD140.00 MECHANICAL ROOF PLAN PART A MD141.00 MECHANICAL ROOF PLAN PART B	NOSB
MENT AND WITH THE	ELECTRICAL DRAWINGS E001.00 ELECTRICAL LEGENDS ES100.00 ELECTRICAL SITE PLAN ED100.00 ELECTRICAL PARTIAL BASEMENT DEMOLITION ED101.00 ELECTRICAL PARTIAL BASEMENT DEMOLITION	
JRRENTLY R DUE TO XECUTION. PRIOR TO	ED110.00 ELECTRICAL PARTIAL FIRST FLOOR DEMOLITION ED111.00 ELECTRICAL PARTIAL FIRST FLOOR DEMOLITION PLAN ED120.00 ELECTRICAL PARTIAL SECOND FLOOR DEMOLITION PLAN ED121.00 ELECTRICAL PARTIAL SECOND FLOOR DEMOLITION PLAN ED130.00 ELECTRICAL PARTIAL ROOF FLOOR DEMOLITION PLAN ED131.00 ELECTRICAL PARTIAL ROOF FLOOR DEMOLITION PLAN ED121.00 ELECTRICAL PARTIAL SECOND FLOOR DEMOLITION PLAN ED121.00 ELECTRICAL PARTIAL SECOND FLOOR DEMOLITION PLAN ED121.00 ELECTRICAL PARTIAL SECOND FLOOR DEMOLITION PLAN E100.00 ELECTRICAL PARTIAL BASEMENT HVAC POWER PLAN	1 Staging Site Plan
	ELECTRICAL PARTIAL FIRST FLOOR HVAC POWER PLAN E110.00 ELECTRICAL PARTIAL FIRST FLOOR HVAC POWER PLAN E120.00 ELECTRICAL PARTIAL SECOND FLOOR HVAC POWER PLAN E121.00 ELECTRICAL PARTIAL SECOND FLOOR HVAC POWER PLAN E130.00 ELECTRICAL PARTIAL ROOF HVAC POWER PLAN E131.00 ELECTRICAL PARTIAL ROOF HVAC POWER PLAN E200.00 ELECTRICAL DETAILS AND SCHEDULE E300.00 ELECTRICAL SINGLE LINE DIAGRAM E400.00 ELECTRICAL SCHEDULES E500.00 ELECTRICAL SWITCHBOARD ELEVATION	 STAGING NOTES: 1. POST SIGNS INDICATING CONSTRUCTION AREA A EMPLOYEE ENTRANCE. SEE SIGN SCHEDULE BEL 2. CONSTRUCTION FENCE TO BE 8'-0" HIGH CHAIN L A MINIMUM OF 15'-0" FROM ALL WINDOW OPENING BE LOCKED AT ALL TIMES, EXCEPT FOR WHEN A ATTENDANCE TO PREVENT UNAUTHORIZED ENTR BELOW.

SPECIFIC AREAS HAVE BEEN TESTED AND FOUND NOT TO CONTAIN ASBESTOS AS DESCRIBED IN THE PROJECT MANUAL. A COPY OF THE REPORT CAN BE VIEWED AT THE DISTRICT OFFICE LOCATED AT 5 HOMESIDE LANE, WHITE

- "GENERAL SAFETY AND SECURITY STANDARDS FOR
- ALL CONSTRUCTION MATERIALS SHALL BE STORED IN A
- FENCES AROUND CONSTRUCTION SUPPLIES OR DEBRIS
- GATES SHALL ALWAYS BE LOCKED UNLESS A WORKER (3) IS IN ATTENDANCE TO PREVENT UNAUTHORIZED ENTRY.
- 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."

- 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 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.
- 8. 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 SH ACTIVITIES AND MATE VOLATILE ORGANIC CO FURNITURE, CARPETIN SCHEDULED, CURED MANUFACTURERS REC OCCUPIED."
- 10. "LARGE AND SMALL AS BY 12NYCRR56 SHALL OCCUPIED." IT IS OUR "BUILDING", AS REFER MAJOR SECTION OF A ISOLATED FROM THE COMBUSTIBLE CONST BUILDING MUST CONT OCCUPIED PORTION PHYSICALLY SEPARA
- 11. EXTERIOR WORK SUCI WORK MAY BE PERFO PROPER VARIANCES ISOLATION OF VENTIL PROVIDED. CARE MUS CLASSES ARE NOT DIS

MINOR ASBESTOS PRO ASBESTOS PROJECT REPAIR, ENCAPSULAT SQUARE FEET OF ASB PERFORMED IN UNOC ACCORDANCE WITH '

SPECIFIC AREAS HAVE LEAD AS DESCRIBED BE ABATED IN ACCORE

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		CONSULTANTS:	2700 Westches Purchas 914.358.5623	ster Ave., Suite 415 e, NY 10577 ▪ www.h2m.com
017		MARK	DATE 10-16-23	DESCRIPTION FINAL BID DOCUMENT
NG ASPHALT NG LOT			LICENSED DROFE	NEW LALA 1303 HINK SSIONAL
AND AVENUE STAGING AREA	AVED AREA	DESIGNED BY: PROJECT No.: WPSD 22 CLIENT	DRAWN BY: 205 DATE: OCTO ATE: ATE: ATE: OCTO ATE: A	CHECKED BY: QAQC BER 2023 SCALE: ains City District
ALL BE RESPONSIBLE TO ENSURE THAT RIALS WHICH RESULT IN "OFF-GASSING" OF NDCONSTRUCTION OW. INK FENCE LOCATED SS. ALL GATES ARE TO NORKER IS IN RY. SEE LEGEND IALL BE RESPONSIBLE TO ENSURE THAT RIALS WHICH RESULT IN "OFF-GASSING" OF OMPOLINDS SLICH AS GILLES PAINTS IALL SURPLICES IS SCHEDUL SCHOOL OF SCHOOL OF SCHO	LED TO BE COMPLETED WHEN SION AND THEREFORE WILL NOT TUDENT ENTRANCE/EXIT EGRESS. ON THE SITE IN SUCH A MANNER AS TO NOT N EXISTING EXITS/ENTRANCES TO BUILDING, ORE ALL STAGING AREAS TO TION, UPON COMPLETION OF WORK IN EW YORK STATE LAW SMOKING IS PROHIBITED ON GROUNDS. EMPLOYEES FOUND TO BE SMOKING OL GROUNDS SHALL BE ORDERED OFE SITE AND A		REAL LIF	E LEARNING
G, WALL COVERING, DRAPERY, ETC. ARE R VENTILATED IN ACCORDANCE WITH OMMENDATIONS BEFORE A SPACE CAN BE BESTOS ABATEMENT PROJECTS AS DEFINED NOT BE PERFORMED WHILE THE BUILDING IS NTERPRETATION THAT THE TERM ENCED IN THIS SECTION, MEANS A WING OR BUILDING THAT CAN BE COMPLETELY SHALL PR NECESSA	DEFENSE WILL BE GROUNDS FOR PERMANENT FROM PROJECT. LEGAL PENALTIES MAY ALSO BE RACTORS SHALL TAKE EVERY PRECAUTION AND OVIDE SUCH EQUIPMENT AND FACILITIES AS ARE RY OR REQUIRED FOR THE SAFETY OF ITS ES. IN CASE OF AN ACCIDENT, FIRST AID SHALL ISTERED TO ANY WHO MAY BE INJURED IN THE SS OF THE WORK. IN ADDITION, THE CONTRACTOR	W SEI	7 Nosba hite Plains D PROJEC	and Ave. s, NY 10605 CT CONTROL
EEST OF THE BUILDING WITH SEALED NON RUCTION. THE ISOLATED PORTION OF THE AIN EXITS THAT DO NOT PASS THROUGH THE ND VENTILATION SYSTEMS MUST BE ED AND SEALED AT THE ISOLATION BARRIER. THE CONT PROVIDE AS ROOFING, FLASHING, SIDING, OR SOFFIT RMED ON OCCUPIED BUILDINGS PROVIDED	PREPARED FOR THE REMOVAL TO THE HOSPITAL TMENT OF ANY EMPLOYEE EITHER SERIOUSLY OR ILL. TRACTOR FOR GENERAL CONSTRUCTION SHALL TEMPORARY WEATHER-TIGHT AND INSULATED RES AS MAY BE REQUIRED BY THE SCOPE OF R ALL EXTERIOR OPENINGS SO AS TO PROTECT		ALL CO	NTRACTS
RE IN PLACE AS REQUIRED, AND COMPLETE ALL WORH TION SYSTEMS AND AT WINDOWS IS SECURITY T BE TAKEN TO SCHEDULE WORK SO THAT SHALL NO RUPTED BY NOISE OR VISUAL DISTRACTION. EXITS SHA	K FROM THE WEATHER, AND TO PROVIDE AGAINST UNAUTHORIZED ENTRY. ENCLOSURES TO CREATE DEAD END CONDITIONS, REQUIRED ALL BE MAINTAINED FREE AND CLEAR.	STATUS	FINAL BID	DOCUMENT
DJECTS DEFINED BY 12NYCRR56 AS AN NVOLVING THE REMOVAL, DISTURBANCE, ON, ENCLOSURE OR HANDLING OF 10 ESTOS OR ASBESTOS MATERIAL MAY BE CUPIED AREAS OF AN OCCUPIED BUILDING IN 2NYCRR56.		SHEET TITLE GI DRAV	ENERAL N VINGS LIS	NOTES, MAPS, ST AND LEGENDS
E BEEN TESTED AND FOUND TO CONTAIN N THE PROJECT MANUAL. THESE AREAS WILL DANCE WITH SPECIFICATION SECTION 020600.		DRAWING No.	G00	0.00





	ALLOWED	
BUILDING OCCUPANCY	-	
CONSTRUCTION CLASSIFICATION	-	
HEIGHT (STORIES)	3 STORIES	
HEIGHT (FEET)	55 FEET	
FIRE AREA	N/A	



	ALLOWED	
BUILDING OCCUPANCY	-	
CONSTRUCTION CLASSIFICATION	-	
HEIGHT (STORIES)	3 STORIES	
HEIGHT (FEET)	55 FEET	
FIRE AREA	N/A	







	ALLOWED	
BUILDING OCCUPANCY	-	
CONSTRUCTION CLASSIFICATION	-	
HEIGHT (STORIES)	3 STORIES	
HEIGHT (FEET)	55 FEET	Т
FIRE AREA	N/A	Τ

ABBREVIATIONS				
AFF	ABOVE FINISHED FLOOR			
BCU	BUILDING CONTROL UNIT			
BTU	BRITISH THERMAL UNIT			
CFH				
COMM.	COMMUNICATION			
CV	CONTROL VALVE			
(D)	DEMOLISH			
DB				
	DEMAND CONTROLLED VENTILATION			
DIA	DIAMETER			
DX	DIRECT EXPANSION			
'E'	ELECTRICAL CONTRACTOR			
(E)	EXISTING			
EA				
EER	ENERGY EFFICIENCY RATING			
ESP	EXTERNAL STATIC PRESSURE			
FAI	FRESH AIR INTAKE			
FD	FLOOR DRAIN			
FLA FT. H20	FEET OF WATER			
FTR	FIN TUBE RADIATOR			
'G'	GENERAL CONSTRUCTION CONTRACTOR			
GPM	GALLONS PER MINUTE			
GPH				
<u></u> 'Н'	HVAC CONTRACTOR			
HP	HORSEPOWER			
IN.	INCHES			
IN. W.C. (W.G.)	INCHES WATER COLUMN (WATER GAUGE)			
KW				
LAT	LEAVING AIR TEMPERATURE			
LBS	POUNDS			
LCD	LIQUID CRYSTAL DISPLAY			
LWB				
М	METER			
MAX	MAXIMUM			
MBH				
MIN				
MNF	MANUFACTURER			
N.C.	NORMALLY CLOSED			
N.O.	NORMALLY OPEN			
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION			
NTS	NOT TO SCALE			
OAI	OUTDOOR AIR INTAKE			
OD	OUTER DIAMETER			
OED				
PD	PRESSURE DROP			
PSIG	LBS / SQUARE INCH (GAUGE PRESSURE)			
RA	RETURN AIR			
RD				
RPM RP7				
SA	SUPPLY AIR			
SAT	SUPPLY AIR TEMPERATURE			
SEER	SEASONAL ENERGY EFFICIENCY RATING			
TEMP				
IG TVP				
VFD	VARIABLE FREQUENCY DRIVE			
W	WIDTH			
WB	WET BULB			
WMS	WIRE MESH SCREEN			

UCTWORK LEGEND		PIPING LEGEND			
SYMBOL	ABBREV	DESCRIPTION	SYMBOL	ABBREV	DESCRIPTION
		DUCTWORK BRANCH CONNECTION			NEW WORK
	VD	VOLUME DAMPER	<u> </u>		PIPING DOWN/ PIPING UP
			<u> </u>		BALL VALVE WITH HOSE END CONNECTION
	CD	ROUND FACE SUPPLY DIFFUSER	<u> </u>	TH	THERMOMETER
	SEE AIR DEVICE SCHEDULE	SIDEWALL SUPPLY, RETURN OR EXHAUST GRILLE/REGISTER		U	
[¤]	SEE AIR DEVICE SCHEDULE	SQUARE FACE SUPPLY DIFFUSER		FPC	DIRECTION OF FLOW
רא ען	SEE AIR DEVICE SCHEDULE	BOTTOM RETURN OR EXHAUST GRILLE/REGISTER		PSR	PRESSURE SAFETY AND RELIEF VALVE
	FC	FLEXIBLE CONNECTION		PRV	PRESSURE REDUCING VALVE
			-5	BV	BALL VALVE
		TURNING VANES	—ēj— k	BA	BALANCING VALVE
		RECTANGULAR TO ROUND TRANSITION	л <u>–</u> б–	BFV	BUTTERFLY VALVE
	AL	ACOUSTICAL LINING			TEMPERATURE SENSOR WITH THERMOWELL
				GA	GATE VALVE
		END CAP		GB	GLOBE VALVE
X	SEE AIR DEVICE SCHEDULE	SUPPLY DIFFUSER WITH DIRECTIONAL FLOW (SOLID HATCH INDICATES BLANK OFF PANEL)	<u></u>	AV	AUTOMATIC AIR VENT
		SUPPLY DUCT DROP (TURN DOWN)		CV	2-WAY ELECTRONIC CONTROL VALVE
				CV	3-WAY ELECTRONIC CONTROL VALVE
				CV	2-WAY PNEUMATIC CONTROL VALVE
		SUPPLY DUCT RISE		CV	3-WAY PNEUMATIC CONTROL VALVE
		RETURN/EXHAUST DUCT RISE		STR	STRAINER WITH BLOW OFF VALVE WITH HOSE END CONNECTION
DSD 🗖	DSD	DUCT SMOKE DETECTOR	● , Ĵ	FD	FLOOR DRAIN
			ERT ERT		AIR SEPARATOR
M	MD	MOTORIZED DAMPER WITH ACTUATOR			STEAM TRAPS (INDICATE TYPE)
	AD	ACCESS DOOR		СН	CHECK VALVE
	FD/AD	FIRE DAMPER WITH ACCESS DOOR		PG	PRESSURE GAUGE WITH GAUGE COCK
-	FSD/AD	FIRE SMOKE DAMPER WITH ACCESS DOOR		CO	CLEANOUT END CAP
		EAN			PIPE GUIDE
			——————————————————————————————————————		PIPE ANCHOR
///// ,		WORK TO BE REMOVED]		CAPPED PIPE
—		POINT OF DISCONNECTION FROM EXISTING			PUMP
•		POINT OF CONNECTION TO EXISTING	·/////		WORK TO BE REMOVED
		- -		POINT OF DISCONNECTION FROM EXISTING	
CONTROLS LEGEND			6		POINT OF CONNECTION TO EXISTING
SYMBOL	ABBREV	DESCRIPTION	<u>+</u> // <u>+</u>	TDV	TRIPLE DUTY VALVE
\bigcirc					

CONTROLS LEGEND						
SYMBOL	ABBREV	DESCRIPTION				
©		CARBON MONOXIDE SENSOR				
$(\bar{\mathbb{T}})$		THERMOSTAT				
S		DIGITAL TEMPERATURE SENSOR				
H		HUMIDITY SENSOR				
\odot		CARBON DIOXIDE SENSOR				
P		PRESSURE SENSOR				

SYSTEM COMMISSIONING NOTES (NYS):

- COMMISSION ALL NEW BUILDING MECHANICAL SYSTEMS IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2020 NEW YORK STATE (NYS) ENERGY CONSERVATION CODE (ECC) SECTION C408. COMMISSIONING SHALL BE PERFORMED BY AN APPROVED THIRD-PARTY COMMISSIONING AGENCY HIRED BY THE OWNER. REFER TO SPECIFICATION SECTION 230800 - COMMISSIONING OF MECHANICAL SYSTEMS FOR MORE INFORMATION.
- 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.
- PROVIDE FINAL COMMISSIONING REPORT TO THE BUILDING OWNER OR OWNER'S AUTHORIZED AGENT WITHIN 90 DAYS OF THE 3. 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

- DRAWINGS, AS SPECIFIED AND AS REQUIRED BY 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.
- FIRE RATED CONSTRUCTION.)
- THE ARCHITECT/ENGINEER DURING THE SUBMITTAL PHASE FOR RESOLUTION PRIOR TO PURCHASING ANY EQUIPMENT.
- CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.

- REGULATIONS. REFER TO DETAILS FOR ADDITIONAL PIPING AND EQUIPMENT INSTALLATION REQUIREMENTS.
- 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.
- 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.
- BUREAU (NEBB). PERFORM ALL TESTING, ADJUSTING, AND BALANCING IN ACCORDANCE WITH THE SPECIFICATIONS.
- PERMITTED.
- SECTION 230719 FOR ADDITIONAL REQUIREMENTS.
- APPROVED BY THE ARCHITECT/ENGINEER.

WORK IN EXISTING AREAS

- CONDITIONS PRIOR TO PROCEEDING WITH THE WORK.
- USE QUALIFIED PERSONNEL IN PERFORMANCE OF THE WORK.

CONTRACT 'M' SCOPE NOTES

OF CONTRACT 'E'.

- OPERATION.
- 4. FURNISH ALL LINTELS FOR DUCT AND PIPE PENETRATIONS IN MASONRY WALLS FOR INSTALLATION BY CONTRACT 'G'.

- 9. ALL NEW EQUIPMENT TO BE INTEGRATED WITH EXISTING SCHNEIDER ELECTRIC EBO BMS.

LEGENDS/ABBREVIATIONS NOTES

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

ADD ALTERNATE 1

- SEE MD DRAWINGS FOR FURTHER INFORMATION.
- FOR FURTHER INFORMATION.
- MANAGEMENT SYSTEM.

1. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE

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

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

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

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,

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 APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND

11. LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE OR DUCT UP- AND DOWNSTREAM

13. COORDINATE LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS WITH ALL OTHER TRADES. COORDINATE ALL PIPING AND EQUIPMENT SUPPORTED FROM

16. TESTING, ADJUSTING, AND BALANCING AGENCY SHALL BE A MEMBER OF THE ASSOCIATED AIR BALANCE COUNCIL (AABC) OR THE NATIONAL ENVIRONMENTAL BALANCING

17. MAKE ALL ATTACHMENTS TO JOISTS, TRUSSES, OR JOIST GIRDERS AT PANEL POINTS. PROVIDE BEAM CLAMPS MEETING MSS STANDARDS. THE USE OF C-CLAMPS IS NOT

18. PROVIDE CONCRETE PADS A MINIMUM OF 6 INCHES HIGH FOR ALL FLOOR MOUNTED EQUIPMENT. EXTEND PAD 4 INCHES BEYOND THE EQUIPMENT ON ALL SIDES.

19. INTERNALLY LINE ALL SUPPLY AND RETURN DUCTWORK WITHIN 20 FEET UPSTREAM AND DOWNSTREAM OF FANS WITH 1" THICK INSULATION. INTERNALLY LINED DUCTWORK MEETING THIS REQUIREMENT SHALL ALSO BE PROVIDED WITH EXTERNALLY APPLIED INSULATION AS REQUIRED BY THE SPECIFICATIONS. SEE SPECIFICATION

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

21. INSTALL PIPING, DUCTWORK, AND CONDUIT CONCEALED IN AREAS HAVING HUNG CEILINGS AND/OR FURRED SPACES UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

1. EXISTING CONDITIONS, INCLUDING EQUIPMENT, DUCT AND PIPE SIZES AND LOCATIONS, INDICATED ON THE DRAWINGS ARE DIAGRAMMATIC. CONFIRM ALL EXISTING

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.

1. PROVIDE ALL LOUVERS FOR INSTALLATION BY CONTRACT 'G'. SUBMIT LOUVER COLOR AND CONFIGURATION TO THE ARCHITECT/ENGINEER FOR APPROVAL. 2. INSTALL SMOKE DETECTORS IN DUCTWORK FOR AIR HANDLING UNITS RATED AT 2,000 CFM OR GREATER AND AT FSD/SD. SMOKE DETECTOR SUPPLY AND WIRING IS PART

3. FURNISH AND INSTALL ALL NECESSARY CONTROL WIRING, CONDUIT, AND ACCESSORIES AS REQUIRED TO PROVIDE FULLY FUNCTIONING SYSTEMS AND SEQUENCES OF

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'.

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



architects engineers

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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

HVAC LEGENDS, SYMBOLS, ABBREVIATIONS, AND **GENERAL NOTES**

M001.00



- 1. REFRIGERANT PIPING IS SCHEMATIC FINAL PIPE LAYOUT AND SIZING TO BE PROVIDED AND VERIFIED THROUGH MANUFACTURER SOFTWARE AND SUBMITTED FOR ENGINEER APPROVAL. 2. RETURN AIR PATHS ARE EXISTING TO REMAIN.
- 3. ALL CONDENSATE PIPES TO BE PITCHED 1/8" PER FOOT. DRAIN INDIRECTLY IN LOCATIONS
- SHOWN. 4. COORDINATE WITH STRUCTURE AND EXISTING DUCTWORK, OFFSET AS REQUIRED.
- 5. ALL DUCT SIZES ARE CLEAR INSIDE DIMENSIONS. REFER TO SPECIFICATIONS FOR ALL DUCT
- 6. THE CONTRACTOR SHALL REMOVE, PROTECT AND REINSTALL ALL CEILING SYSTEMS AS REQUIRED
- 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 MAINTAIN EXISTING AESTHETIC.
- 9. 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
- 10. EXISTING WALL, FLOOR AND CEILING FINISHES SHALL REMAIN IN PLACE U.O.N.. THE CONTRACTOR SHALL PATCH AND REPAIR ALL WALLS, FLOORING AND CEILINGS IN AREA OF WORK TO MATCH

- 2 UNIT VENTILATOR 3/4" CONDENSATE DRAIN THROUGH WALL TURN DOWN. TERMINATE +/- 24" ABOVE

- 7 PROVIDE AND INSTALL NEW CEILING-MOUNTED CASSETTE VRF FAN COIL UNIT (AC) WITH NEW DDC CONTROLS, NEW DDC THERMOSTAT. FOR LAY-IN CEILING APPLICATIONS, MODIFY CEILING AS REQUIRED

MECHANICAL GROUND FLOOR PLAN PART B

M101.00

- 1. REFRIGERANT PIPING IS SCHEMATIC FINAL PIPE LAYOUT AND SIZING TO BE PROVIDED AND VERIFIED THROUGH MANUFACTURER SOFTWARE AND SUBMITTED FOR ENGINEER APPROVAL.
- 2. RETURN AIR PATHS ARE EXISTING TO REMAIN.
- 3. ALL CONDENSATE PIPES TO BE PITCHED 1/8" PER FOOT. DRAIN INDIRECTLY IN LOCATIONS SHOWN 4. COORDINATE WITH STRUCTURE AND EXISTING DUCTWORK, OFFSET AS REQUIRED.
- 5. ALL DUCT SIZES ARE CLEAR INSIDE DIMENSIONS. REFER TO SPECIFICATIONS FOR ALL DUCT CONSTRUCTION
- REQUIREMENTS. 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 IN-KIND AT NO ADDITIONAL COST TO THE OWNER.
- 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 MAINTAIN EXISTING AESTHETIC.
- 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 IN-KIND AT NO ADDITIONAL
- 10. EXISTING WALL, FLOOR AND CEILING FINISHES SHALL REMAIN IN PLACE U.O.N.. THE CONTRACTOR SHALL PATCH AND REPAIR ALL WALLS, FLOORING AND CEILINGS IN AREA OF WORK TO MATCH ADJACENT FINISHES AND PREPARE NEW CONSTRUCTION.

KEYED NOTES:

- 1 PROVIDE NEW MANUFACTURER LOUVER FOR UNIT VENTILATOR
- 2 UNIT VENTILATOR 3/4" CONDENSATE DRAIN THROUGH WALL TURN DOWN. TERMINATE +/- 24" ABOVE

5 EXISTING RELIEF TO REMAIN

6 PROVIDE AND INSTALL NEW UNIT VENTILATOR (UV) WITH NEW DDC CONTROLS, NEW DDC THERMOSTAT

7 PROVIDE AND INSTALL NEW CEILING-MOUNTED CASSETTE VRF FAN COIL UNIT (AC) WITH NEW DDC AND PROVIDE TRIM/FLANGE KIT.

	Н	2) - 1	architects + engineers
		2700 Westch Purch 914.358.56	ester Av ase, NY 23 • wwv	re., Suite 415 10577 v.h2m.com
	CONSULTANTS:			
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- 1. REFRIGERANT PIPING IS SCHEMATIC FINAL PIPE LAYOUT AND SIZING TO BE PROVIDED AND VERIFIED THROUGH MANUFACTURER SOFTWARE AND SUBMITTED FOR ENGINEER APPROVAL.
- 2. RETURN AIR PATHS ARE EXISTING TO REMAIN.
- 3. ALL CONDENSATE PIPES TO BE PITCHED 1/8" PER FOOT. DRAIN INDIRECTLY IN LOCATIONS SHOWN 4. COORDINATE WITH STRUCTURE AND EXISTING DUCTWORK. OFFSET AS REQUIRED.
- 5. ALL DUCT SIZES ARE CLEAR INSIDE DIMENSIONS. REFER TO SPECIFICATIONS FOR ALL DUCT CONSTRUCTION
- REQUIREMENTS.
- 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 IN-KIND AT NO ADDITIONAL
- COST TO THE OWNER. 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 MAINTAIN EXISTING AESTHETIC.
- SEE M-001 FOR ALTERNATE #1. 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 IN-KIND AT NO ADDITIONAL COST TO THE OWNER.
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KEYED NOTES:

1	PROVIDE NEW MANUFACTURER LOUVER FOR UNIT VENTILATOR
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2 UNIT VENTILATOR 3/4" CONDENSATE DRAIN THROUGH WALL TURN DOWN. TERMINATE +/- 24" ABOVE

3 EXISTING VENTILATION TO REMAIN

FINISHED GRADE

4 EXISTING EXHAUST TO REMAIN

5 EXISTING RELIEF TO REMAIN

6 PROVIDE AND INSTALL NEW UNIT VENTILATOR (UV) WITH NEW DDC CONTROLS, NEW DDC THERMOSTAT

- 7 PROVIDE AND INSTALL NEW CEILING-MOUNTED CASSETTE VRF FAN COIL UNIT (AC) WITH NEW DDC
- CONTROLS, NEW DDC THERMOSTAT. FOR LAY-IN CEILING APPLICATIONS, MODIFY CEILING AS REQUIRED AND PROVIDE TRIM/FLANGE KIT.

CU-UV-1	
ROOF	
	ROOF
Key Plan	

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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 SECOND FLOOR PART A

M120.00

1. REFRIGERANT PIPING IS SCHEMATIC FINAL PIPE LAYOUT AND SIZING TO BE PROVIDED AND VERIFIED THROUGH MANUFACTURER SOFTWARE AND SUBMITTED FOR ENGINEER APPROVAL.

2. RETURN AIR PATHS ARE EXISTING TO REMAIN. 3. ALL CONDENSATE PIPES TO BE PITCHED 1/8" PER FOOT. DRAIN INDIRECTLY IN LOCATIONS SHOWN

4. COORDINATE WITH STRUCTURE AND EXISTING DUCTWORK, OFFSET AS REQUIRED. 5. ALL DUCT SIZES ARE CLEAR INSIDE DIMENSIONS. REFER TO SPECIFICATIONS FOR ALL DUCT CONSTRUCTION

REQUIREMENTS. 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 IN-KIND AT NO ADDITIONAL

COST TO THE OWNER. 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 MAINTAIN EXISTING AESTHETIC.

SEE M-001 FOR ALTERNATE #1. 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 IN-KIND AT NO ADDITIONAL COST TO THE OWNER.

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

KEYED NOTES:

1 PROVIDE NEW MANUFACTURER LOUVER FOR UNIT VENTILATOR

2 UNIT VENTILATOR 3/4" CONDENSATE DRAIN THROUGH WALL TURN DOWN. TERMINATE +/- 24" ABOVE FINISHED GRADE

3 EXISTING VENTILATION TO REMAIN

5 EXISTING RELIEF TO REMAIN

6 PROVIDE AND INSTALL NEW UNIT VENTILATOR (UV) WITH NEW DDC CONTROLS, NEW DDC THERMOSTAT

7 PROVIDE AND INSTALL NEW CEILING-MOUNTED CASSETTE VRF FAN COIL UNIT (AC) WITH NEW DDC CONTROLS, NEW DDC THERMOSTAT. FOR LAY-IN CEILING APPLICATIONS, MODIFY CEILING AS REQUIRED AND PROVIDE TRIM/FLANGE KIT.

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White Plains City **School District**

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

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

CONTRACT H HEATING VENTILATION AND AIR CONDITIONING

FINAL BID DOCUMENT

MECHANICAL SECOND FLOOR PLAN PART B

M121.00

- 1. ALL DUCT SIZES ARE CLEAR INSIDE DIMENSIONS. REFER TO SPECIFICATIONS FOR ALL DUCT CONSTRUCTION REQUIREMENTS.
- DAMPERS.

- LOADS PROVIDED ON DRAWINGS, SIGNED AND SEAL BY A LICENSED PROFESSIONAL ENGINEER

WIND LOAD	S (MC 301.15	& B
ZONE ID	POSITIVE WIND PRESSURE (PSF)	NEC PRE
ROOF (INT. ZONE)	13.0	
ROOF (END ZONE)	13.0	
ROOF (CORNER ZONE)	13.0	
WALLS (INT. ZONE)	32.0	
WALLS (END ZONE)	32.0	

Н	2) -	architects +
	N		engineers
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- 1. ALL DUCT SIZES ARE CLEAR INSIDE DIMENSIONS. REFER TO SPECIFICATIONS FOR ALL DUCT CONSTRUCTION REQUIREMENTS.
- 2. ALL SUPPLY, RETURN AND EXHAUST BRANCH DUCTWORK SHALL BE PROVIDED WITH VOLUME DAMPERS.
- 3. COORDINATE WITH STRUCTURE AND EXISTING DUCTWORK, OFFSET AS REQUIRED.

- EQUAL.
- LOADS PROVIDED ON DRAWINGS, SIGNED AND SEAL BY A LICENSED PROFESSIONAL ENGINEER

WIND LOADS (MC 301.15 & BC 1609)								
ZONE ID	POSITIVE WIND PRESSURE (PSF)	NEGATIVE WIND PRESSURE (PSF)						
ROOF (INT. ZONE)	13.0	-57.0						
ROOF (END ZONE)	13.0	-67.3						
ROOF (CORNER ZONE)	13.0	-91.8						
WALLS (INT. ZONE)	32.0	-34.7						
WALLS (END ZONE)	32.0	-42.9						

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	N	e	engineers
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ANGL	E IRON TABLE
WALL OPENING	ANGLE SIZE
UP TO 30"	1"x1"x1/8"
31" TO 54"	1-1/2"x1-1/2"x1/8"
55" TO 84"	3"x2"x3/16"
85" T0 120"	3"x2"x3/16"

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M501.00

2 PROVIDE AND INSTALL NEW MANUFACTURER SPECIFIED LOW VOLTAGE THERMOSTAT/CONTROLLER.

(DETAIL #)

		2	architects
		N /	+ engineers
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		914.358.5623	• www.h2m.com
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	CU-UV-2	SEE PLAN	N HF	FAT RECOVERY	R-410A	114	12 00	25 40	129	23	DAIKIN	RXYQ120XATJA	48-7/8x30-3/16x66-	. 528	208/3/60	36.3	45	1.2.4-6	3.7.14	ROOF (CORNER ZONE) 13.0 -91.8	
													11/16 48-7/8 x 30-3/16 x							WALLS (INT. ZONE) 32.0 -34.7	CONSULTANTS:
	CU-3	SEE PLAN	N HE	EAT RECOVERY	R-410A	184	13.00	22.60	206	2.5	DAIKIN	REYQ192XATJE	66-11/16 (1) 48-7/8 x 30-3/16 x	525 (1) 525 (2)	208/3/60	38.1 (1) 38.1 (2)	45 (1) 45 (2)	1,2,4-6	3,7,14	WALLS (END ZONE) 32.0 -42.9	
													66-11/16 (2)								
	CU-4	SEE PLAN	N HE	EAT RECOVERY	R-410A	156	10.80	22.30	174	2.1	DAIKIN	REYQ168XATJE	48-7/8 x 30-3/16 x 66-11/16	695	208/3/60	61.9	70	1,2,4-6	3,7,14		
													48-7/8 x 30-3/16 x								MARK DATE DESCRIPTION
	CU-5	SEE PLAN	N HE	EAT RECOVERY	R-410A	228	11.60	22.20	256	2.3	DAIKIN	REYQ240XATJE	66-11/16 (1) 48-7/8 x 30-3/16 x	528 (1) 528 (2)	208/3/60	43 (1) 43 (2)	50 (1) 50 (2)	1,2,4-6	3,7,14		10-16-23 FINAL BID DOCUMENT
													66-11/16 (2)								
	CU-6	SEE PLAN	N HE	EAT RECOVERY	R-410A	252	11.20	21.60	282	2.2	DAIKIN	REYQ264XATJE	66-11/16 (1) 48-7/8 x 30-3/16 x	660.5 (1) 660.5 (2)	208/3/60	43 (1) 58.3 (2)	50 (1) 70 (2)	1,2,4-6	3,7,14		
													66-11/16 (2)		8 1						
 Provide a construction of the standard of the standa	1. REFRIC 2. PROVI	ERANT CHARGE E AND INSTALL	E IS SOLELY PR REFRIGERANT	RE-CHARGE FROM C	CONDENSERS. CONTR ES PER MANUFACTUR	RACTOR TO NOTIFY EN	IGINEER IF IONS.	ADDITIONA	AL SYSTEM CHARGE IS	REQUIRED.		1. INTEGRAL D 2. INTEGRAL D	ISCONNECT SWITCH	[FIELD WIRED] [FACTORY WIRED]	9. IN 10. N	NTEGRAL START	ERS PERS [24VAC]				
	3. CONTR 4. MANUF	ACTOR TO PROV	VIDE 14" HIGH R Rovide Hail Gl	RAILS. JARD KIT								 INTEGRAL U INTEGRAL P 	NPOWERED RECEPT OWERED RECEPTAC	ACLES [FIELD WIRE LES [FACTORY WIRE	ED] 11. M ED] 12. S	NOTORIZED DAMI	PERS [120VAC] WER FEED				
	5. Manuf 6. Manuf	ACTURER PROV ACTURER PROV	IDED LOW AMB IDED BASE PAN	BIENT KIT N HEATER								5. IN TEGRAL C 6. INTEGRAL C	ONDENSATE PUMP [I ONDENSATE PUMP [I GE CONTROLS	JNPOWERED] POWERED]	13. IN 14. E 15 C	NDOOR UNIT POV ELECTRICAL CON	VERED FROM OU TRACTOR TO PRO	TDOOR UNIT OVIDE DISCONNECT SW	ТСН		
															10. 0						EOFNEW
	EXHA	UST FA	NS	PERFORMANIC		1															AP JOHN LAND PR
				REQUI	REMENTS	N		BASIS OF	DESIGN INFORMATI	ON											
	NO.	YSTEM SERV	ED CFN	EXT S. P.	FAN/MOTOR	BHP MNF		EL NO.			DATA	REMARKS	NOTES	NOTES	ENERG	Y RECOV		NTILATOR			
				(IN. W.C.)	RPM				(LT x W" x H") (LBS	S.) VOLT	TS MOTOR SE HP									PERFORMANCE/CONSTRUCTION REQUIREMENTS	101303 E
	TX-1 BO	S TOILET FLOOF	RS G-2 1000	0.6	1537	0 GREENHEC	СК G-1	00-VG	24.40" x 25.45" 41	115/	'1 <u>1</u>	-	1	1,7,11,12	EQUIPMENT	NO. LOCAT	TIONS QUAN	ITITY SUPPLY	FAN	HEAT RECOVERY NOM NOMINAL ELECTRICAL DATA NOTES LE RECOVERY MNF MODEL NO. DIMENSIONS OPERATING Image: Control of the second sec	"ALTERATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL IS ILLEGAL"
	TX-2 GIR	S TOILET FLOOF	RS G-2 825	0.6	1520	0 GREENHEC	CK G-C	99-VG	24.40" x 25.45 41	115/	1 4	-	1	1,7,11,12				(CFM)	.P. (IN W.G.) EFFIC	L'' x W'' x H'' WEIGHT (LBS.) VOLTS/PHASE MCA	DESIGNED BY: DRAWN BY: CHECKED BY: REVIEWED BY: OAQAQC
A Normal Norma	TX-3 GRC	JND FLOOR BOY GIRLS	(S AND 600	0.6	1586	0 GREENHEC	ск G-C	98-VG	24.40" x 25.45 41	115/	1 4	-	1	1,7,11,12	ERV-1 <u>NOTES:</u>	SEE F	2LAN 1	520	-	NOVA A16 60x40x16 43 20873 5.91 1,4	PROJECT No.: DATE: SCALE: WPSD 2205 OCTOBER 2023
	TX-4	T FLOOR BOYS / GIRLS	AND 520	0.6	1467	0 GREENHEC	ск G-0	98-VG	24.40" x 25.45 41	115/	'1 <u>1</u>	-	1	1,7,11,12	1. PROVIDE 2. PROVIDE 3 PROVIDE	MERV 6 FILTERS MERV 8 FILTERS					White Plains Citv
	NOTES:					OTES:		"2521	8. LINI	EVOLTAGE	CONTROLS				4. PROVIDE	BACKDRAFT DAM	MPER				School District
	1. MANUF	CTURER PROVI	DED DISCONNEC	CISWITCH	1. INTEGR/ 2. INTEGR/ 3. INTEGR/	AL DISCONNECT SWITC AL DISCONNECT SWITC AL LINDOWERED RECE	CH [FIELD V CH [FACTO] PTACLES [VIRED] RY WIRED] TIELD WIRE	9. ואו 10. MO 11 MO	EGRAL STAF FORIZED DA FORIZED DA	MPERS [24VAC]										
					4. INTEGR/ 5. INTEGR/	AL POWERED RECEPT/ AL CONDENSATE PUMF	ACLES [FAC P [UNPOWE	TORY WIRE RED]	RED] 12. SIN 13. IND	GLE POINT F	POWER FEED OWERED FROM OL	UTDOOR UNIT			CONDE						
					6. INTEGR/ 7. LOW VO	AL CONDENSATE PUMP DLTAGE CONTROLS	P [POWERE	D]	14. ELE 15. ON	CTRICAL CO	ONTRACTOR TO PR ER FEED AS ASSOC	ROVIDE DISCONNECT CIATED INDOOR UNIT	SWITCH			SYSTEM		MENTS	BASIS	S OF DESIGN INFORMATION MECHANICAL ELECTRICAL	at Mamaroneck
	VRF B	RANCH	CONTRO	OL BOXES	S										EQIVIT. NO.	SERVED FLU			MNF MODEL NO	NO. DIMS. WEIGHT VOLTS/ DRAW NOTES NOTES	Elementary School
Prop Norm Norm Norm Latter due				# OF		BASIS OF DESI		RMATION							CDP-A	SEE PLANS WA	TER 48	(FT.) 10 1/30 LIT	LE GIANT VCCA-20-P	-P 11 X 5 X 7 6.3 208V/1 75-93 1-3 7,12,14,15	
	EQMT NO.	LOCATION	CNDSR. PAIRING	INDOOR UNIT MNF		NOMINAL DIMENS				ME ME	ECHANICAL NOTES	ELECTRICA	L NOTES		NOTES: 1. UL RATED		ELECTRIC	AL NOTES:	WITCH IEIELD WIREDI	8. LINE VOLTAGE CONTROLS 9. INTEGRAL STARTERS	
				PORTS		L" x W" x H"		VEIGHT (LBS.)	PHASE MCA	MOCP					2. OVERFLOV 3. 1/2 GALLO	W DETECTION SW N COLLECTION TA	VITCH 2. INT ANK 3. INT	FEGRAL DISCONNECT S FEGRAL UNPOWERED R	WITCH [FACTORY WIRE]	ED] 10. MOTORIZED DAMPERS [24VAC] VIRED] 11. MOTORIZED DAMPERS [120VAC]	Jains Public Schoo
	BC-1	SEE PLAN	CU UV-1	6 DAIKI	N BS6Q54TVJ	22-13/16 x 18-15/16 x 1	11-3/4	68	208/1		1,2	7,12,	14				4. INT 5. INT	FEGRAL POWERED REC FEGRAL CONDENSATE F	EPTACLES [FACTORY W UMP [UNPOWERED]	WIRED] 12. SINGLE POINT POWER FEED 13. INDOOR UNIT POWERED FROM OUTDOOR UNIT	
	BC-2	SEE PLAN	CU UV-2	4 DAIKI	N BS4Q54TVJ	14-9/16 x 18-15/16 x 1	1-3/4	49	208/1		1,2	7,12,	14				6. INT 7. LO	FEGRAL CONDENSATE F W VOLTAGE CONTROLS	UMP [POWERED]	 ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH ON SAME POWER FEED AS ASSOCIATED INDOOR UNIT 	
	BC-3	SEE PLAN	CU-5	4 DAIKI	N BS4Q54TVJ	14-9/16 x 18-15/16 x 1	1-3/4	49	208/1		1,2	7,12,	14	_							THE LEARNING
	BC-4	SEE PLAN	CU-6	6 DAIKI	N BS6Q54TVJ	22-13/16 x 18-15/16 x 1	11-3/4	68	208/1		1,2	7,12,	14	СО	NTROL VA	LVES					REALLING
Image: No. 1/2 / 2010// 2010	BC-5	SEE PLAN	CU UV-1	4 DAIKI	N BS4Q54TVJ	14-9/16 x 18-15/16 x 1	1-3/4	49	208/1		1,2	7,12,	14	DAIDE						PERFORMANCE/CONSTRUCTION REQUIREMENTS	
	BC-6	SEE PLAN	CU-5	6 DAIKI	N BS6Q54TVJ	22-13/16 x 18-15/16 x 1	11-3/4	68	208/1		1,2	7,12,	14	EQMT	r. SERVICE	QTY. VAL			ON VALVE MEI	EDIUM COEFFICIENT CLOSE OFF TRIM MATERIAL CONNECTION CODE NUMBER ACTUATOR CONTROL	7 Nosband Ave.
BEB BEPA QIA 6 Mode BESSET 2 1000 (2000) (BC-7	SEE PLAN	CU-6	6 DAIKI	N BS6Q54TVJ	22-13/16 x 18-15/16 x 1	11-3/4	68	208/1		1,2	7,12,	14	CV-1	I HTG-0 S	SEE PLANS BA	LL VALVE 2	2-WAY LAST POSIT	ON VARIES WA	VATER 4.6* 200* BRASS THREADED VA9310-HGC-2 0-10VDC PROP;24VAC INC;24VAC ON/OFF;4-20MA PROP	White Plains, NY 10605
ECG ECG 21 Statistic field for the statis	BC-8	SEE PLAN	CU-3	8 DAIKI	N BS8Q54TVJ	22-13/16 x 18-15/16 x1	1-3/4	73	208/1		1,2	7,12,	14	_							
HECHANCINGS 1 HECONOCINATION 1 <	BC-9	SEE PLAN	CU-4	6 DAIKI	N BS6Q54TVJ	22-13/16 x 18-15/16 x 1	11-3/4	68	208/1		1,2	7,12,	14	_							NO. 66-22-00-01-0-010-017
CONDENSATE DRAIN NOT REQUIRED FOR THIS MAULTACTURE 1, ENTERSAL LUMPARTED RECEPTION IS INTEGAL CONTRACTS IN EUTO AREA DATA DATA INTEGAL CONTRACTS IN	MECHANICAL	<u>Notes:</u> De Ball Valves	S		ELECTRIC 1. IN	CAL NOTES: ITEGRAL DISCONNECT	SWITCH [FI		8.)] 9. 10	LINE VOL	TAGE CONTROLS	VA C1									CONTRACT H
 INTEGRAL COORDENSATE FUNDIN proveree production out that proveree production out that proveree production out that proveree production of the p	2. COND	INSATE DRAIN N	NOT REQUIRED	FOR THIS MANUFA	ACTURER 2. IN 3. IN 4. IN	ITEGRAL DISCONNECT		LES [FIELD S IFACTOR)	WIRED] 11. Y WIRED] 12.	MOTORIZ	ZED DAMPERS [240 ZED DAMPERS [120 POINT POWER FEE	DVAC] ED									HEATING VENTILATION AND AIR
TO WARD FOR THE ASSOCIATED INDOR UNIT FINAL BID DOCUMENT Sett TITLE MECHANICAL SCHEDULE [4 OF 4] DIMINION. M603.00					5. IN ⁻ 6. IN ⁻	ITEGRAL CONDENSATE	PUMP [UN PUMP [PO	POWERED] WERED]] 13. 14.	INDOOR ELECTRI	UNIT POWERED FF	ROM OUTDOOR UNIT R TO PROVIDE DISCO	NNECT SWITCH								CONDITIONING
MECHANICAL SCHEDULE [4 OF 4]					7. LO	OW VOLTAGE CONTROL	_S		15.	ON SAME	E POWER FEED AS	SASSOCIATED INDOO	RUNIT								FINAL BID DOCUMENT
MECHANICAL SCHEDULE [4 OF 4]														_							SHEET TITLE
[4 OF 4]																					
BRAVING No. M603.00																					[4 OF 4]
Drawling no. M603.00																					
M603.00																					
																					M603.00

SPLIT E	SPLIT EVAPORATING UNITS																			
				PERFORMANCE/ CONSTRUCTION REQUIREMENTS SUPPLY UNIT DATA						BASIS OF D	ESIGN INFORMA		ELEC	RICAL D	ATA	-				
UNIT TAG	UNIT LOCATION	TYPE	PAIRED E	QUIPMENT	REFRIGERANT	NOMINAL SIZE (MBH)	DRY AIRFLOW (CFM) [HI-MED-LO]	SOUND LEVEL LOW TO HIGH dB(A)	TOTAL COOLING CAPACITY (MBH)	SENSIBLE COOLING CAPACITY (MBH)	HEATING CAPACITY (MBH) @ 0°F	MANUF.	MODEL	NOMINAL DIMENSIONS L" x W" x H"	OPERATING WEIGHT (LBS.)	VOLTS/ PHASE/ HZ	MCA (A)	MOCP (A)	NOTES	ELECTRICAL NOTES
AC - 105	ROOM 105	CEILING MOUNTED CASSETTE			R-410A	30	1112/918/671	32 / 38	30	22.3	34	DAIKIN	FXFQ30TVJU	33-1/16 x 33-1/16 x 11-5/16	58	208/1/60	1.3	15	1-5	7,12,14
AC - 202	ROOM 202	CEILING MOUNTED CASSETTE			R-410A	36	1165/918/671	32 / 38	36	28.2	40	DAIKIN	FXFQ36TVJU	33-1/16 x 33-1/16 x 11-5/16	58	208/1/60	1.5	15	1-5	7,12,14
AC - 204	ROOM 204	CEILING MOUNTED CASSETTE			R-410A	36	1165/918/671	32 / 38	36	28.2	40	DAIKIN	FXFQ36TVJU	33-1/16 x 33-1/16 x 11-5/16	58	208/1/60	1.5	15	1-5	7,12,14
AC - 205	ROOM 205	CEILING MOUNTED CASSETTE	011.0		R-410A	36	1165/918/671	32 / 38	36	28.2	40	DAIKIN	FXFQ36TVJU	33-1/16 x 33-1/16 x 11-5/16	58	208/1/60	1.5	15	1-5	7,12,14
AC - 206	ROOM 206	CEILING MOUNTED CASSETTE	CU-3	BC-8	R-410A	36	1165/918/671	32 / 38	36	28.2	40	DAIKIN	FXFQ36TVJU	33-1/16 x 33-1/16 x 11-5/16	58	208/1/60	1.5	15	1-5	7,12,14
AC - 207	ROOM 207	CEILING MOUNTED CASSETTE			R-410A	30	1112/918/671	32 / 38	30	22.3	34	DAIKIN	FXFQ30TVJU	33-1/16 x 33-1/16 x 11-5/16	58	208/1/60	1.3	15	1-5	7,12,14
AC - 209	ROOM 209	CEILING MOUNTED CASSETTE			R-410A	14	512/459/388	27 / 29	14.4	11.3	17	DAIKIN	FXFQ15TVJU	9-11/16 x 33-1/16 x 9-11/16	42	208/1/60	0.40	15	1-5	7,12,14
AC - 211	ROOM 211	CEILING MOUNTED CASSETTE			R-410A	18	742/618/477	28 / 32	18	16	20	DAIKIN	FXFQ18TVJU	33-1/16 x 33-1/16 x 9-11/16	42	208/1/60	0.60	15	1-5	7,12,14
AC - 214	ROOM 214	CEILING MOUNTED CASSETTE			R-410A	36	1165/918/671	32 / 38	36	28.2	40	DAIKIN	FXFQ36TVJU	33-1/16 x 33-1/16 x 11-5/16	58	208/1/60	1.5	15	1-5	7,12,14
AC - 215	ROOM 215	CEILING MOUNTED CASSETTE			R-410A	30	1112/918/671	32 / 38	30	22.3	34	DAIKIN	FXFQ30TVJU	33-1/16 x 33-1/16 x 11-5/16	58	208/1/60	1.3	15	1-5	7,12,14
AC - 216	ROOM 216	CEILING MOUNTED CASSETTE	CU-4	BC-9	R-410A	36	1165/918/671	32 / 38	36	28.2	40	DAIKIN	FXFQ36TVJU	33-1/16 x 33-1/16 x 33-1/16 x 33-1/16 x	58	208/1/60	1.5	15	1-5	7,12,14
AC - 217	ROOM 217				R-410A	36	1165/918/671	32 / 38	36	28.2	40	DAIKIN	FXFQ36TVJU	11-5/16 33-1/16 x 33-1/16 x	58	208/1/60	1.5	15	1-5	7,12,14
AC - 218	ROOM 218				R-410A	36	1165/918/671	32/38	36	28.2	40	DAIKIN	EXEQ36TV.IU	11-5/16 33-1/16 x 33-1/16 x	58	208/1/60	1.5	15	1-5	7,12,14
AC - 29	ROOM 29	CEILING MOUNTED CASSETTE			R-410A	30	1112/918/671	32 / 38	30	22.3	34	DAIKIN	FXFQ30TVJU	11-5/16 33-1/16 x 33-1/16 x 11-5/16	58	208/1/60	1.3	15	1-5	7,12,14
AC - 31	ROOM 31	CEILING MOUNTED CASSETTE			R-410A	30	1112/918/671	32 / 38	30	22.3	34	DAIKIN	FXFQ30TVJU	33-1/16 x 33-1/16 x 11-5/16	58	208/1/60	1.3	15	1-5	7,12,14
AC - 33	ROOM 33	CEILING MOUNTED CASSETTE		BC-3	R-410A	30	1112/918/671	32 / 38	30	22.3	34	DAIKIN	FXFQ30TVJU	33-1/16 x 33-1/16 x 11-5/16	58	208/1/60	1.3	15	1-5	7,12,14
AC - 34	ROOM 34	CEILING MOUNTED CASSETTE			R-410A	30	1112/918/671	32 / 38	30	22.3	34	DAIKIN	FXFQ30TVJU	33-1/16 x 33-1/16 x 11-5/16	58	208/1/60	1.3	15	1-5	7,12,14
AC - 104	ROOM 104	CEILING MOUNTED CASSETTE	CU-5		R-410A	48	1218/971/742	34 / 40	48	35	54	DAIKIN	FXFQ48TVJU	33-1/16 x 33-1/16 x 11-5/16	58	208/1/60	1.8	15	1-5	7,12,14
AC - 106	ROOM 106	CEILING MOUNTED CASSETTE			R-410A	48	1218/971/742	34 / 40	48	35	54	DAIKIN	FXFQ48TVJU	33-1/16 x 33-1/16 x 11-5/16	58	208/1/60	1.8	15	1-5	7,12,14
AC - 119	ROOM 119	CEILING MOUNTED CASSETTE		BC-6	R-410A	30	1112/918/671	32 / 38	30	22.3	34	DAIKIN	FXFQ30TVJU	33-1/16 x 33-1/16 x 11-5/16	58	208/1/60	1.3	15	1-5	7,12,14
AC - 121	ROOM 121				R-410A	30	1112/918/671	32 / 38	30	22.3	34	DAIKIN	FXFQ30TVJU	33-1/16 x 33-1/16 x	58	208/1/60	1.3	15	1-5	7,12,14
AC - 123	ROOM 123	CEILING MOUNTED CASSETTE			R-410A	36	1165/918/671	32 / 38	36	28.2	40	DAIKIN	FXFQ36TVJU	11-5/16 33-1/16 x 33-1/16 x	58	208/1/60	1.5	15	1-5	7,12,14
AC - 27	ROOM 27	CEILING MOUNTED CASSETTE			R-410A	48	1218/971/742	34 / 40	48	35	54	DAIKIN	FXFQ48TVJU	33-1/16 x 33-1/16 x 11-5/16	58	208/1/60	1.8	15	1-5	7,12,14
AC - 28	ROOM 28	CEILING MOUNTED CASSETTE		BC-4	R-410A	36	1165/918/671	32 / 38	36	28.2	40	DAIKIN	FXFQ36TVJU	33-1/16 x 33-1/16 x 11-5/16	58	208/1/60	1.5	15	1-5	7,12,14
AC - 30	ROOM 30	CEILING MOUNTED CASSETTE			R-410A	15	512/459/388	27 / 29	14.4	11.3	17	DAIKIN	FXFQ15TVJU	33-1/16 x 33-1/16 x 9-11/16	42	208/1/60	0.40	15	1-5	7,12,14
AC - 32	ROOM 32	CEILING MOUNTED CASSETTE	CU-6		R-410A	18	742/618/477	28 / 32	18	16	20	DAIKIN	FXFQ18TVJU	33-1/16 x 33-1/16 x 9-11/16	42	208/1/60	0.60	15	1-5	7,12,14
AC - 116	ROOM 116	CEILING MOUNTED CASSETTE			R-410A	36	1165/918/671	32 / 38	36	28.2	40	DAIKIN	FXFQ36TVJU	33-1/16 x 33-1/16 x 11-5/16	58	208/1/60	1.5	15	1-5	7,12,14
AC - 117	ROOM 117	CEILING MOUNTED CASSETTE			R-410A	48	1218/971/742	34 / 40	48	35	54	DAIKIN	FXFQ48TVJU	33-1/16 x 33-1/16 x 11-5/16	58	208/1/60	1.8	15	1-5	7,12,14
AC - 118	ROOM 118	CEILING MOUNTED CASSETTE		BC-7	R-410A	30	1112/918/671	32 / 38	30	22.3	34	DAIKIN	FXFQ30TVJU	33-1/16 x 33-1/16 x 33-1/16 x 33-1/16 x	58	208/1/60	1.3	15	1-5	7,12,14
AC - 120	ROOM 120	CEILING MOUNTED CASSETTE			R-410A	30	1112/918/671	32 / 38	30	22.3	34	DAIKIN	FXFQ30TVJU	11-5/16 33-1/16 x 33-1/16 x	58	208/1/60	1.3	15	1-5	7,12,14
AC-14	ROOM 14	CEILING MOUNTED CASSETTE	CU UV-1	BC-1	R-410A	24	777/618/477	28 / 32	23	22.5	27	DAIKIN	FXFQ24TVJU	11-5/16 33-1/16 x 33-1/16 x	51	208/1/60	.7	15	1-5	7,12,14
MECHAI 1. M 2. C 3. F 4. I 5. C	MECHANICAL NOTES: Electrical Notes: Electrical Notes: 8. Line Voltage Controls 1. MANDFACTURER TO PROVIDE HARDWIRED, WALL MOUNTED, PROGRAMMABLE TEMPERATURE SENSOR. Electrical Notes: 8. Line Voltage Controls 2. DRAIN PAIN Level Sensor The UNIT SHALL TURN OFF IF WATER IS SENSED. 1. INTEGRAL DISCONNECT SWITCH [FIELD WIRED] 9. INTEGRAL STATERS 3. FURNISH AND INSTALL BACKET INTERFACE AND INTEGRATE WITH BMS. 1. INTEGRAL CONDENSATE (FIELD WIRED) 10. MOTORIZED DAMPERS [24VAC] 4. INSTALL ALL EQUIPMENT AND COMPONENTS ACCORDING TO MANUFACTURER'S INSTRUCTIONS. 1. INTEGRAL CONDENSATE PUMP [UNPOWERED RECEPTACLES [FACTORY WIRED] 11. MOTORIZED DAMPERS [120VAC] 5. CONFIGURABLE AIRFLOW DIRECTIONS 6. INTEGRAL CONDENSATE PUMP [UNPOWERED] 13. INDOOR UNIT 6. INTEGRAL CONDENSATE PUMP [POWERED] 13. INDOOR UNIT OPOWER FEED 13. INDOOR UNIT 6. INTEGRAL CONDENSATE PUMP [POWERED] 14. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH 14. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH 6. INTEGRAL CONDENSATE PUMP [POWERED] 13. INDOOR UNIT 14. ELECTRICAL CONTRACTOR TO PROVED ELECTRICAL CONTRACTOR TO PROVED EL																			

Н	Ż	-	architects +							
	N		engineers							
	2700 Westchester Ave., Suite 415 Purchase, NY 10577									
	914.358.562	23 • www	v.h2m.com							
CONSULTANTS:										
MARK	DATE	F								
	10-10-23									
"A DESIGNED BY:	LTERATION OF THIS DOCUMENT	F NE LAA 01303 ESSIC	NEED PROFESSIONAL IS ILLEGAL" REVIEWED BY: REVIEWED BY:							
DESIGNED BY: JML PROJECT No.: WPSD 22	205 DRAWN BY: BFB/DKF DATE: OCT		2023							
	/hite P	lair	ns Citv							
AC a	School nd Ventil at Marr Elementa	Dis lation naror ary S	strict n Upgrades neck school							
	REAL LI	ublic FE LE	Schools DARNING							
w	7 Nosb hite Plaiı	and ns, N	Ave. Y 10605							
SEI NO	D PROJE . 66-22-00	CT C 0-01-	ONTROL 0-010-017							
HEAT	CON ING VEN COND	TRAC TILA DITIO	CT H FION AND AIR NING							
STATUS	INAL BI	D DO	CUMENT							
	CHANIC [2	AL (OF	SCHEDULE 4]							
DRAWING No.	M6	01	.00							

NTILATION	INDEX BASED	ON 202	20 NEW YOR	K STAT		CAL CODE	E (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 (CFM)	EXHAUST REQUIRED (CFM)
010	CLASSROOM 9+	647	35	23	10	0.12	0	308	0.90	340	0
013	CLASSROOM 9+	1024	35	35	10	0.12	0	470	0.90	522	0
012	CLASSROOM 9+	733	35	27	10	0.12	0	359	0.90	399	0
014	CLASSROOM 9+	862	35	31	10	0.12	0	415	0.80	461	0
015A	CLASSROOM 9+	347	35	13	10	0.12	0	172	0.80	215	0
015B	CLASSROOM 9+	404	35	14	10	0.12	0	188	0.90	209	0
017	CLASSROOM 9+	755	35	27	10	0.12	0	361	0.90	401	0
019	CLASSROOM 9+	804	35	30	10	0.12	0	376	0.90	441	0
021	CLASSROOM 9+	374	35	14	10	0.12	0	185	0.90	206	0
034	CLASSROOM (5-8)	697	25	18	10	0.12	0	264	0.80	330	0
032	CLASSROOM (5-8)	359	25	9	10	0.12	0	133	0.80	166	0
030	CLASSROOM (5-8)	350	25	18	10	0.12	0	266	0.80	33	0
029	CLASSROOM (5-8)	828	25	21	10	0.12	0	310	0.80	387	0
028	CLASSROOM 9+	819	35	30	10	0.12	0	374	0.80	498	0
031	CLASSROOM (5-8)	759	25	19	10	0.12	0	281	0.80	352	0
033	CLASSROOM (5-8)	709	25	18	10	0.12	0	265	0.80	332	0
027	MUSIC ROOM	936	35	32	10	0.06	0	375	0.80	468	0
026	MUSIC ROOM	936	35	32	10	0.06	0	375	0.80	468	0
100	CLASSROOM 9+	470	35	16	10	0.06	0	187	0.90	208	0
101	ART CLASSROOM	1003	20	20	10	0.18	0.70	377	0.90	419	702.00
102	ART CLASSROOM	964	20	20	10	0.18	0.70	374	0.90	415	675.00
105	CLASSROOM (5-8)	776	25	21	10	0.18	0	307	0.80	384	0.00
104	CLASSROOM (5-8)	848	25	22	10	0.12	0	323	0.80	404	0.00
106	CLASSROOM (5-8)	916	25	22	10	0.12	0	324	0.80	405	0.00
118	CLASSROOM 9+	600	35	22	10	0.12	0	293	0.80	366	0.00
120	CLASSROOM (5-8)	722	25	19	10	0.12	0	279	0.80	349	0.00
122	CLASSROOM (5-8)	695	25	18	10	0.12	0	264	0.80	330	0.00
119	CLASSROOM (5-8)	673	25	17	10	0.12	0	250	0.80	313	0.00
121	CLASSROOM (5-8)	759	25	19	10	0.12	0	280	0.80	350	0.00
123	CLASSROOM (5-8)	709	25	18	10	0.12	0	264	0.80	330	0.00
117	CLASSROOM (5-8)	899	25	23	10	0.12	0	339	0.80	424	0.00
116	CLASSROOM (5-8)	899	25	23	10	0.12	0	339	0.80	424	0.00
202	CLASSROOM 9+	742	35	26	10	0.12	0	349	0.80	436	0.00
204	CLASSROOM 9+	692	35	25	10	0.12	0	334	0.80	418	0.00
205	CLASSROOM 9+	780	35	30	10	0.12	0	373	0.80	492	0.00
206	CLASSROOM 9+	627	35	22	10	0.12	0	295	0.80	369	0.00
207	CLASSROOM 9+	678	35	24	10	0.12	0	321	0.80	401	0.00
209	CLASSROOM 9+	233	35	9	10	0.12	0	118	0.80	147	0.00
211	CLASSROOM 9+	378	35	14	10	0.12	0	185	0.80	231	0.00
214	CLASSROOM (5-8)	694	25	18	10	0.12	0	264	0.80	231	0.00
216	CLASSROOM (5-8)	722	25	19	10	0.12	0	279	0.80	349	0.00
215	CLASSROOM (5-8)	674	25	17	10	0.12	0	249	0.80	312	0.00

ENTILATION INDEX BASED ON 2020 NEW YORK STATE MECHANICAL CODE (2 OF 2)															
ROOM NAME	ROOM NAMEOCCUPANCY CLASSIFICATIONFLOOR AREA (SF)OCCUPANCY LOAD (PERSONS/1000 SF)NUMBER OF OCCUPANTSOCCUPANT BASED OA RATE (CFM/OCCUPANT)AREA BASED OUTSIDE AIR RATE (CFM/SF)EXHAUST RATE (CFM/SF)UNCORRECTED OA RATE (CFM/SF)Ez EFFICIENCY FACTOR (CFM)CORRECTED OA [HEATING]EXHAUST REQUIRED (CFM)														
218	CLASSROOM (5-8)	699	25	18	10	0.12	0	264	0.80	312	0				
217	CLASSROOM (5-8)	759	25	19	10	0.12	0	279	0.80	349	0				
219	CLASSROOM (5-8)	709	25	18	10	0.12	0	264	0.80	330	0				

Η	2)	architects									
	N		engineers									
	2700 Westch Purch	ester Av	re., Suite 415 10577									
CONSULTANTS:	914.358.562	23 • wwv	v.h2m.com									
MARK	DATE 10-16-23	F	DESCRIPTION									
	E OF NEW IN											
	STATE O	FNE	AL OPA									
	* LICENS		SINEER *									
-a	LTERATION OF THIS DOCUMENT	01303 ESSIC	IN A HING AND AND A HING AND AND A HING AND AND A HING AND AND AND AND A HING AND AND A HING AND AND A HING AND AND AND AND A HING A									
DESIGNED BY: JML PROJECT No.: WPSD 22	205 DRAWN BY: BFB/DKF DATE: OCT	R CHEC	CKED BY: REVIEWED BY: ° QAQC 2023 SCALE:									
	/hite P School	lain Dis	s City strict									
AC a	nd Ventil at Man Elementa	latior naror ary S	n Upgrades neck school									
	Sellains P	ublic FE LE	Schools									
w	7 Nosb hite Plair	and . ns, N	Ave. Y 10605									
SEI NO	D PROJE 66-22-00	CT C 0-01-	ONTROL 0-010-017									
HEAT	CONTRACT CONTRACT H HEATING VENTILATION AND AIR CONDITIONING											
STATUS	INAL BI	D DO	CUMENT									
	CHANIC/ [1	AL S OF	CHEDULES 4]									
DRAWING No.	M6	00	.00									

						PERFORMA	NCE/ CONSTRUCT	TION REQUIREMEN	NTS							BASIS (OF DESIGN INFOR	RMATION				
		SUPPL	Y FAN				COOLING COIL				HEATIN	IG COIL						EL	ECTRICAL DATA	۱		
EQUIPMENT	QUANTITY			OUTSIDE		τοται		AIR I	DATA		AIR	DATA	STEAM COIL DATA			NOMINAL DIMENSIONS	NOMINAL				MECHANICAL	ELECTRICA
NU.		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
MECHANICAL NOT 1. PROVIDE PN 2. GALVANIZED 3. COLD WEATH 4. REAR OUTSII 5. HIGH EFFICIE 6. STEAM 2 WA 7. 2" MERV 13 F 8. TOP DISCHA	ES: EUMATIC CONTROLS TO TIE DRAIN PAN ER DAMPER ASSEMBLY DE AIR, BOTTOM RETURN AI NCY ECM MOTOR MODULATING VALVE/ACTU LTER RGE BAR STOCK STEEL GRI	INTO EXISTING R JATOR	9. FALSI 10. SINGI 11. PROV 12. CONT 13. PROV 14. PROV 15. REUS 16. PROV 17. OUTS BALAI	E BACK LE ROW STEAM CC IDE WITH FREEZE RACTOR RESPON IDE NEW WALL MC IDE ECONOMIZER E EXISTING PNEUM IDE SUBBASE, MA IDE AIR VALUES IN	DIL STAT SIBILITY TO CONFIRM DUNTED PNEUMATIC T MATIC LINES TCH HEIGHT OF EXIST I THIS SCHEDULE ARE	QUANTITIES HERMOSTAT ING CASEWORK. MAXIMUM VALUES	VALUES ON 18. FACE AND B	PLAN/VENTILATION S YPASS CONTROL	CHEDULE.			<u>El</u> 1. 2. 3. 4. 5. 6. 7.	ECTRICAL NOTES INTEGRAL DI INTEGRAL DI INTEGRAL UI INTEGRAL PO INTEGRAL CO INTEGRAL CO LOW VOLTAC	<u>S:</u> ISCONNECT SWIT ISCONNECT SWIT NPOWERED RECE OWERED RECEPT ONDENSATE PUM ONDENSATE PUM GE CONTROLS	CH [FIELD WIRED] CH [FACTORY WIRE PTACLES [FIELD WI ACLES [FACTORY W P [UNPOWERED] P [POWERED]	8. 9. 10. IRED] 11. VIRED] 12. 13. 14. 15.	LINE VOLTAGE COI INTEGRAL STARTE MOTORIZED DAMP MOTORIZED DAMP SINGLE POINT POV INDOOR UNIT POW ELECTRICAL CONT ON SAME POWER F	NTROLS IRS ERS [24VAC] ERS [120VAC] VER FEED /ERED FROM OUTDOO! RACTOR TO PROVIDE FEED AS ASSOCIATED	R UNIT DISCONNECT SWI INDOOR UNIT	ТСН		

							PERFORM	ANCE/ CONSTRU	ICTION REQUIRE	MENTS									BASIS (OF DESIGN INFOR	RMATION				
		SUPPI	LY FAN				COOLING COIL						HEATING CO	L							EI	ECTRICAL DATA			
EQUIPMENT				OUTSIDE				AIR	DATA		AIR I	DATA		HOT V	/ATER				DIMENSIONS	NOMINAL					
NO.	QUANTITY	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
MECHANICAL NOTES			6 2" MER	V 13 FILTER			14 REUSE EXISTIN	I IG PNELIMATICS			1				I ECTRICAL NO	<u> </u>			8. LINE VOLTAG	E CONTROLS					

PROVIDE PNEUMATIC CONTROLS TO TIE INTO EXISTING

GALVANIZED DRAIN PAN

COLD WEATHER DAMPER ASSEMBLY

REAR OUTSIDE AIR, BOTTOM RETURN AIR

HIGH EFFICIENCY ECM MOTOR

7. TOP DISCHARGE BAR STOCK STEEL GRILLE

8. FALSE BACK

9. SINGLE ROW HOT WATER COIL

10. PROVIDE WITH FREEZE STAT

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

11. CONTRACTOR RESPONSIBILITY TO CONFIRM QUANTITIES

12. PROVIDE WALL MOUNTED PNEUMATIC THERMOSTAT 13. PROVIDE ECONOMIZER

VALUES ON PLAN/VENTILATION SCHEDULE. 17. FACE AND BYPASS CONTROL

PACKAGED ROOFTOP SYSTEM WITH ENERGY RECOVERY WHEEL

														PER	FORMANC	COI /3C	NSTRU	сті
			SUP	PLY FAN		E	KHAUST	FAN		ERV							CO	OLI
EQUIPMENT NO.	LOCATION	SUPPLY AIR (CFM)	внр	MOTOR HP	EXT. S.P. (IN W.G)	EXHAUST AIR (CFM) [ECONOMIZER]	BHP	MOTOR HP	EXT. S.P. (IN W.G)	MOTOR HP	OUTSIDE AIR FLOW (CFM)	NOMINAL TONNAGE	REFR. TYPE	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	EER	SEER / IEER	DE (
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
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
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
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
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
MECHANICAL NOT	<u>ES:</u>) MERV-8 FILTI	ERS.								11. 12.	CONDE	NSER HAIL	GUARD RY WHE	EL				

HINGED ACCESS DOORS

DIRTY FILTER INDICATOR SWITCH.

SUPPLY FAN STATUS SWITCH

HOT GAS REHEAT COIL.

PROVIDE NEW PROGRAMMABLE THERMOSTAT.

MANUFACTURER TO PROVIDE BACNET INTERFACE CARD

STAINLESS STEEL DRAIN PAN AND CONDENSATE OVERFLOW SWITCH, INTERLOCK TO TURN OFF UNIT. PHASE LOSS PROTECTION

VERTICAL SUPPLY/RETURN DUCTWORK CONFIGURATION.

- 13. SCROLL COMPRESSOR FOR ALL CIRCUITS
- 14. MANUFACTURER TO PROVIDE FACTORY INSTALLED UNIT CONTROLLER
- 15. SUPPLY AIR FLOW MONITORING

16. SUPPLY AND EXHAUST FAN VFD

17. PROVIDE CURB ADAPTOR

INTEGRAL DISCONNECT SWITCH [FIELD WIRED]

INTEGRAL UNPOWERED RECEPTACLES [FIELD WIRED]

INTEGRAL POWERED RECEPTACLES [FACTORY WIRED]

9. INTEGRAL STARTERS

MOTORIZED DAMPERS [24VAC] 10. 11. 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

INTEGRAL DISCONNECT SWITCH [FACTORY WIRED]

INTEGRAL CONDENSATE PUMP [UNPOWERED]

INTEGRAL CONDENSATE PUMP [POWERED] 6. LOW VOLTAGE CONTROLS

BASIS OF DESIGN INFORMAT **FION REQUIREMENTS** ING COIL HEATING NOMINAL NOMINAL HEAT PUMP ELECTRIC COIL AIR DATA DIMENSIONS UWYH (IN) UNIT | UNIT MODEL NO. MNF OA
DB/WB
(°F)RA
DB/WB
(°F)ENT.
DB/WB
(°F)LVG.
DB/WB
(°F)HGRH
DB/WB
(°F)LVG
TEMP
(°F)OA
DB/WB
(°F)RA
DB/WB
(°F)ENT. DB
DB/WB
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(°F)COP<b LVG LxWxH (IN.) (LBS) 3 / 72 | 75 / 62 | 79.7/66.1 | 53.2/53.1 | 70 / 59.5 | 53.2 | 10 / 70 | 70 / 50 | 46.7 | 65.4 | 3.58 | 44.8 18 61.4 25.8 72.5 DAIKIN DPS007A 111x96.5x56.8 2424 3 / 72 | 75 / 62 | 78.7/65.3 | 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 83.1 DAIKIN DPS007A 111x96.5x56.8 2424 182.3x76.5x82. 10/70 70/50 48.7 76.1 3.55 30 4139 3 / 72 75 / 62 79.3/65.8 48.3/48.2 70/57.1 48.3 95.7 102.4 29.5 78.2 DAIKIN DPS016A 5 182.3x76.5x82. 8 / 72 | 75 / 62 | 80.4/67.5 | 50.0/50.0 | 70/58.0 | 50 | 10 / 70 / 70 / 50 | 47.0 | 74.4 | 3.55 | 30 4139 95.7 102.4 29.5 76.5 DAIKIN DPS016A 5 8 / 72 75 / 62 78.7/65.4 50.6/50.6 70/58.2 50.6 10/70 70/50 51.2 72.4 3.58 18 44.0 29.8 81.0 DAIKIN 111x96.5x56.8 61.4 DPS007A 2424

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] 5. INTEGRAL CONDENSATE PUMP [POWERED]

LOW VOLTAGE CONTROLS

LINE VOLTAGE CONTROLS INTEGRAL STARTERS

MOTORIZED DAMPERS [120VAC] 10.

11. SINGLE POINT POWER FEED

12. INDOOR UNIT POWERED FROM OUTDOOR UNIT

13. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH

14. ON SAME POWER FEED AS ASSOCIATED INDOOR UNIT

Ι	ION					
	EL	ECTRIC	AL DATA	ł		
	VOLTS/ PHASE	FLA	MCA	MOCP	NOTES	NOTES
	208 / 3	94.6	110.1	125	1-17	2,4,7,10,11
	208 / 3	94.6	110.1	125	1-17	2,4,7,10,11
	208 / 3	167.7	200.3	225	1-17	2,4,7,10,11
	208 / 3	167.7	200.3	225	1-17	2,4,7,10,11
	208 / 3	94.6	110.1	125	1-17	2,4,7,10,11

Η	2		architects								
	N		+ engineers								
	2700 Westch Purch 914.358.56	nester Av base, NY 23 • www	/e., Suite 415 10577 w.h2m.com								
CONSULTANTS:											
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5D (White Plains Central School District) - 10991/WPSD 2205 - (AC & Ventilation at Mamaroneck Elem School)/02-BIM-CADD/Con-docs/hvac/MD141.00 Mechanical Roof Plan Part B.dwg Last Modified: Sep 20, 2023 - 9:20am Plotted on: Sep 22, 2023 - 12:46pm By mvitran

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	ELECTRICAL LEGENDS			LIST OF DRA	WINGS	SYMBOLS L	EGEND
SYMBOL	DESCRIPTION	COMMENTS	E 001	ELECTRICAL LEGENDS, FIRE AL	ARM RISER, NOTES AND DETAIL	100	ROOM
ST	SWITCH WITH THERMAL OVERLOAD PROTECTION (CONTRACTOR SHALL		ES 100	ELECTRICAL SITE PLANS			DESIGNATION
	2 #12 AWG + #12 AWG GND IN 3/4" E.C. CONCEALED IN WALL OR CEILING		ED 100 ED 101	ELECTRICAL PARTIAL BASEMEN	NT DEMOLITION PLAN A NT DEMOLITION PLAN B	5 A2.2	BUILDING SECTION CUT
	3 #12 AWG + #12 AWG GND IN 3/4" F.C. CONCEALED IN OR BELOW SLAB		 ED 110	ELECTRICAL PARTIAL FIRST FL	OOR DEMOLITION PLAN A	5	WALL SECTION
	DEDICATED HOME RUN TO PANEL LP1 FOR CIRCUIT NO. 35 ONLY. 2 #12		ED 111	ELECTRICAL PARTIAL FIRST FL	OOR DEMOLITION PLAN B	A22	CUT
LP1-35	AWG + #12 AWG GND IN 3/4" E.C. CONCEALED IN WALL OR CEILING		ED 120	ELECTRICAL PARTIAL SECOND	FLOOR DEMOLITION PLAN A	$\left(\begin{array}{c} 5\\ 422 \end{array}\right)$	DETAIL KEY
θ-	SIMPLEX RECEPTACLE: 120V, 20A. COORDINATE MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR TO CLEAR BASEBOARDS.	FLUSH	ED 121	ELECTRICAL PARTIAL SECOND	FLOOR DEMOLITION PLAN B	5	ΕΙ ΕΛΑΤΙΟΝ ΚΕΧ
C	DUPLEX RECEPTACLE: 120V, 20A. COORDINATE MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR TO CLEAR BASEBOARDS.	FLUSH	ED 130	ELECTRICAL PARTIAL ROOF DE		A22	
	QUAD RECEPTACLE, DOUBLE DUPLEX RECEPTACLE: 120V, 20A. COORDINATE MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR TO	FLUSH	E 100	ELECTRICAL PARTIAL BASEMEN	NT HVAC POWER PLAN A	———(H)	COLUMN GRID
	CLEAR BASEBOARDS. DUPLEX RECEPTACLE: 120V, 20A; WITH GROUND FAULT INDICATOR.		E 101	ELECTRICAL PARTIAL BASEMEN	NT HVAC POWER PLAN B	0	ELEVATION LINE
GFI	COORDINATE MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR TO	FLUSH	E 110	ELECTRICAL PARTIAL FIRST FLO	OOR HVAC POWER PLAN A		
CT CT	DUPLEX RECEPTACLE: 120V, 20A; SUBSCRIPT "CT" INDICATES COUNTER	AS PER ENGINEER	E 111	ELECTRICAL PARTIAL FIRST FL	OOR HVAC POWER PLAN B		- DRAWING TITLE
	DUPLEX RECEPTACLE: 120V, 20A; SUBSCRIPT "WP" INDICATED WEATHER		_ E 120	ELECTRICAL PARTIAL SECOND	FLOOR HVAC POWER PLAN A	JUALE.	
		AS PER ENGINEER	E 121	ELECTRICAL PARTIAL SECOND	FLOOR HVAC POWER PLAN B	4	INTERIOR
			E 130	ELECTRICAL PARTIAL ROOF HV	AC POWER PLAN A	3 <u>5</u> 1	ELEVATION
	DISCONNECTION SWITCH "DS1"; SEE DISCONNECT SWITCH SCHEDULE.		E 131		AC POWER PLAN B	\mathbf{Y}_{2}	REFERENCE
	JUNCTION BOX.		E 200		RAMS		
·/ P1			E 300	ELECTRICAL SINGLE LINE DIAG	INAMO IS	#	SEE NOTE #
·////////	ELECTRICAL PANEL "P1", SURFACE MOUNT; SEE PANEL SCHEDULE.		E 500	ELECTRICAL SWITCHBOARD EL	EVATION	#	ON DWG #
C	CONDUIT GOING UP.		ABBREVIATION	DESCRIPTION	COMMENTS		
O	CONDUIT GOING DOWN.		AFF	ABOVE FINISHED FLOOR		SITE PLAN LEGE	=ND
			AFC	ABOVE FINISHED CEILING			
	SINGLE LINE DIAGRAM LEGEND						
			AFCI			CURB	
SYMBOL	DESCRIPTION	COMMENTS	AFCI AFG	ARC FAULT CIRCUIT INTERRUPTER ABOVE FINISHED GRADE	c		
SYMBOL	DESCRIPTION	COMMENTS	AFCI AFG AHJ	ARC FAULT CIRCUIT INTERRUPTER ABOVE FINISHED GRADE AUTHORITY HAVING	c	CURB CURB UTILITY POWER/TE	LEPHONE POLE
SYMBOL	DESCRIPTION CIRCUIT BREAKER WITH TRIP AND POLES AS NOTED; 100 AMP FRAME, 100 AMP TRIP.	COMMENTS	AFCI AFG AHJ AMP, A	ARC FAULT CIRCUIT INTERRUPTER ABOVE FINISHED GRADE AUTHORITY HAVING JURISDICTION AMPERE	(CURB CURB CURB G G CURB CURLITY POWER/TE CURLITY POWER/TE CURLITY POWER/TE CURLITY POWER/TE CURLITY POWER/TE	LEPHONE POLE
SYMBOL	DESCRIPTION CIRCUIT BREAKER WITH TRIP AND POLES AS NOTED; 100 AMP FRAME, 100 AMP TRIP.	COMMENTS	AFCI AFG AHJ AMP, A AWG	ARC FAULT CIRCUIT INTERRUPTER ABOVE FINISHED GRADE AUTHORITY HAVING JURISDICTION AMPERE AMERICAN WIRE GAUGE		CURB CURB UTILITY POWER/TE G EXISTING NATURAL S EXISTING SEWER S	LEPHONE POLE GAS SERVICE SERVICE
SYMBOL 100AF 100AT MCB	DESCRIPTION CIRCUIT BREAKER WITH TRIP AND POLES AS NOTED; 100 AMP FRAME, 100 AMP TRIP.	COMMENTS	AFCI AFG AHJ AMP, A AWG BFC	ARC FAULT CIRCUIT INTERRUPTER ABOVE FINISHED GRADE AUTHORITY HAVING JURISDICTION AMPERE AMERICAN WIRE GAUGE BELOW FINISHED CEILING		CURB CURB UTILITY POWER/TE G-G	LEPHONE POLE GAS SERVICE SERVICE SERVICE
SYMBOL 100AF 100AT 100AT	DESCRIPTION CIRCUIT BREAKER WITH TRIP AND POLES AS NOTED; 100 AMP FRAME, 100 AMP TRIP. DISTRIBUTION PANEL P1 WITH 30A, 2 POLE M.C.B.; SEE DISTRIBUTION	COMMENTS	AFCI AFG AHJ AMP, A AWG BFC CL	ARC FAULT CIRCUIT INTERRUPTER ABOVE FINISHED GRADE AUTHORITY HAVING JURISDICTION AMPERE AMERICAN WIRE GAUGE BELOW FINISHED CEILING CENTERLINE		CURB CURB UTILITY POWER/TE G EXISTING NATURAL S EXISTING SEWER S W EXISTING WATER S T EXISTING TELEPHO	LEPHONE POLE GAS SERVICE SERVICE SERVICE DNE SERVICE
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SYMBOL 100AF 100AF 100AT M.C.B PANEL "P1"	DESCRIPTION CIRCUIT BREAKER WITH TRIP AND POLES AS NOTED; 100 AMP FRAME, 100 AMP TRIP. DISTRIBUTION PANEL P1 WITH 30A, 2 POLE M.C.B.; SEE DISTRIBUTION PANEL SCHEDULE.	COMMENTS	AFCI AFG AHJ AMP, A AWG BFC CL CL CT E.C.	ARC FAULT CIRCUIT INTERRUPTER ABOVE FINISHED GRADE AUTHORITY HAVING JURISDICTION AMPERE AMERICAN WIRE GAUGE BELOW FINISHED CEILING CENTERLINE COUNTER TOP ELECTRICAL CONDUIT GROUND FAULT CIRCUIT		CURB CURD UTILITY POWER/TE -G -S EXISTING NATURAL -S EXISTING SEWER S -W EXISTING WATER S -T EXISTING TELEPHONE S -T EXISTING ELECTRIC	LEPHONE POLE GAS SERVICE ERVICE ERVICE ERVICE ERVICE ERVICE EXVICE EXVIC
SYMBOL 100AF 100AT 100AT M.C.B 300A2P PANEL "P1"	DESCRIPTION CIRCUIT BREAKER WITH TRIP AND POLES AS NOTED; 100 AMP FRAME, 100 AMP TRIP. DISTRIBUTION PANEL P1 WITH 30A, 2 POLE M.C.B.; SEE DISTRIBUTION PANEL SCHEDULE. FUSED DISCONNECT SWITCH 'DSI'. FUSED AT 100 AMP SIZE, 100 AMP	COMMENTS	AFCI AFG AHJ AMP, A AWG BFC CL CT CT E.C. GFCI	ARC FAULT CIRCUIT INTERRUPTER ABOVE FINISHED GRADE AUTHORITY HAVING JURISDICTION AMPERE AMERICAN WIRE GAUGE BELOW FINISHED CEILING CENTERLINE COUNTER TOP ELECTRICAL CONDUIT GROUND FAULT CIRCUIT INTERRUPTER CENTERLINE		CURB CURD UTILITY POWER/TE G EXISTING NATURAL -s EXISTING SEWER S -w EXISTING WATER S -T EXISTING TELEPHONE S -T NEW TELEPHONE S -E NEW ELECTRICAL L	LEPHONE POLE GAS SERVICE ERVICE ERVICE ERVICE ERVICE ERVICE CAL LINES LINES
SYMBOL 100AF 100AF 100AT M.C.B 300A2P PANEL "P1" DS1 100AS 100AS	DESCRIPTION CIRCUIT BREAKER WITH TRIP AND POLES AS NOTED; 100 AMP FRAME, 100 AMP TRIP. DISTRIBUTION PANEL P1 WITH 30A, 2 POLE M.C.B.; SEE DISTRIBUTION PANEL SCHEDULE. FUSED DISCONNECT SWITCH 'DSI', FUSED AT 100 AMP SIZE, 100 AMP FUSED, 3 POLES; SEE DISCONNECT SWITCH SCHEDULE.	COMMENTS	AFCI AFG AHJ AMP, A AWG BFC CL CT CT E.C. GFCI GFI	ARC FAULT CIRCUIT INTERRUPTER ABOVE FINISHED GRADE AUTHORITY HAVING JURISDICTION AMPERE AMERICAN WIRE GAUGE BELOW FINISHED CEILING CENTERLINE COUNTER TOP ELECTRICAL CONDUIT GROUND FAULT CIRCUIT INTERRUPTER GROUND FAULT CIRCUIT INDICATOR		CURB O_ UTILITY POWER/TE -G EXISTING NATURAL -S EXISTING SEWER S -W EXISTING SEWER S -W EXISTING WATER S -T EXISTING TELEPHONE S -T NEW TELEPHONE S -E EXISTING ELECTRIC -E NEW ELECTRICAL L	LEPHONE POLE GAS SERVICE ERVICE ERVICE ERVICE ERVICE CAL LINES LINES
SYMBOL 100AF 100AT 100AT M.C.B M.C.B M.C.B M.C.B M.C.B 100AS 100AS 100AS 100AS	DESCRIPTION CIRCUIT BREAKER WITH TRIP AND POLES AS NOTED; 100 AMP FRAME, 100 AMP TRIP. DISTRIBUTION PANEL P1 WITH 30A, 2 POLE M.C.B.; SEE DISTRIBUTION PANEL SCHEDULE. FUSED DISCONNECT SWITCH 'DSI', FUSED AT 100 AMP SIZE, 100 AMP FUSED, 3 POLES; SEE DISCONNECT SWITCH SCHEDULE.	COMMENTS	AFCI AFG AHJ AMP, A AWG BFC CL CL CT E.C. GFCI GFI GND	ARC FAULT CIRCUIT INTERRUPTER ABOVE FINISHED GRADE AUTHORITY HAVING JURISDICTION AMPERE AMERICAN WIRE GAUGE BELOW FINISHED CEILING CENTERLINE COUNTER TOP ELECTRICAL CONDUIT GROUND FAULT CIRCUIT INTERRUPTER GROUND FAULT INDICATOR GROUND CONSOLIDATED EDISON		CURB CURD UTILITY POWER/TE -G EXISTING NATURAL -S EXISTING SEWER S -W EXISTING WATER S -T EXISTING TELEPHONE S -T NEW TELEPHONE S -E EXISTING ELECTRIC EXISTING PRIMARY	LEPHONE POLE GAS SERVICE SERVICE SERVICE ONE SERVICE SERVICE CAL LINES INES 'ELECTRIC SERVICE
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MANUAL PULL STAT SMOKE DETECTOR HEAT DETECTOR DUCT DETECTOR CARBON MONOXID FIRE PANEL AC POV FA SYSTEM LOW BA OPEN CIRCUIT GROUND FAULT NOTIFICATION APPL **CIRCUIT SHORT**

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3 Fire Alarm Sequence of Operation

FIRE ALARM GENERAL NOTES:

1.	ALL WIRING TO BE INSTALLED ACCORDING TO THE LATEST REVISION OF THE NATIONAL ELECTRIC CODE AND	10.
	N.F.P.A 72 AS REQUIRED BY LOCAL ORDINANCE.	

- ALL CONDUCTORS MUST BE TEST FREE OF OPENS, SHORTS AND GROUNDS.
- 3. GROUNDING MUST COMPLY WITH THE NATIONAL ELECTRIC CODE. GROUNDING MUST BE No. 12 AWG.
- 4. ALL PANEL TERMINATIONS TO BE SUPERVISED BY A FACTORY AUTHORIZED TECHNICIAN PRIOR TO POWERING EQUIPMENT.
- FOR COMPONENT WIRING AND INSTALLATION INFORMATION REFER TO MANUFACTURERS REQUIREMENTS.
- REFER TO CONTRACT DRAWINGS FOR APPROXIMATE DEVICE LOCATIONS. DRAWINGS REPRESENT DEVICE QUANTITIES. SHOP DRAWINGS SHALL BE SUBMITTED SHOWING SCALED LOCATIONS. CONTRACTOR TO SUBMIT PLANS STAMPED BY LICENSED NEW YORK PROFESSIONAL ENGINEER ONLY. SHOP DRAWINGS WITHOUT P.E STAMP WILL BE AUTOMATICALLY REJECTED.
- CONTRACTOR RESPONSIBLE TO PATCH & PAINT ALL OPENINGS AS A RESULT OF REMOVAL OF EXISTING 7 EQUIPMENT.
- INSTALL DETECTORS A MINIMUM OF 3'-0" FROM ANY SUPPLY OR RETURN AIR REGISTERS. COORDINATE EXACT 8. LOCATIONS OF SUPPLY/RETURNS REGISTERS WITH MECHANICAL CONTRACTOR
- WHEN INSTALLING SHIELDED CABLE THE FOLLOWING MUST BE OBSERVED:
 - A. METALLIC CONTINUITY MUST BE MAINTAINED THROUGHOUT THE CABLE RUN.
 - B. THE CABLE SHIELD MUST BE ISOLATED FROM GROUND AND TERMINATED ONLY IN THE ASSOCIATED CONTROL PANEL AT THE TERMINAL INDICATED ON THE CONTROL PANEL DRAWINGS. THE REMOTE END OF THE SHIELD (AT LAST DEVICE) MUST BE TAPED AND ISOLATED FROM GROUND.

GEN	ERAL NUTES:
G1.	CONTRACTOR SHALL INCLUDE ALL WORK REQUIRED TO COMPLETE THIS PROJECT IN BASE BID, UON. NO ADDITIONAL MONIES WILL BE PROVIDED FOR OVERTIME TIME REQUIRED TO COMPLETE THIS WORK NOR FOR MULTIPLE WORK SHIFTS PER DAY.
G2.	VERIFY PHASE ROTATION OF ALL EXISTING, TEMPORARY, AND NEW EQUIPMENT TO ENSURE PROPER ROTATION.
G3.	ALL WORK SHALL BE COORDINATED WITH CON EDISON PRIOR TO INSTALLATION OF NEW ELECTRICAL SERVICE.
G4.	CONTRACTOR SHALL PROVIDE A DETAILED SCHEDULE TWO WEEKS PRIOR TO BEGINNING WORK TO DESCRIBE HOW POWER SWITCHOVERS WILL BE ACCOMPLISHED. SCHEDULE SHALL INCLUDE DETAIL USAGE OF TEMPORARY GENERATORS TO MINIMIZE POWER OUTAGE.
G5.	PROVIDE ADDITIONAL SETS OR OVERSIZED LUGS AS REQUIRED TO MAKE ALL TERMINATIONS.
G6.	THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND ENGINEER TO PHASE WORK SUCH THAT OUTAGES TO VARIOUS AREAS OF THE BUILDING ARE ACCEPTABLE TO MAINTAIN PROPER OPERATION OF THE SCHOOL. WORK SHALL BE DONE ON PREMIUM TIME AS REQUIRED. NO ADDITIONAL MONIES WILL BE PROVIDED FOR PREMIUM TIME REQUIRED TO FINISH THIS WORK NOR FOR MULTIPLE WORK SHIFTS PER DAY.
G7.	FOR ALL NEW INTERIOR FEEDERS, THE CONTRACTOR SHALL REUSE CONDUIT TO THE GREATEST EXTENT POSSIBLE.
G8.	FOR ALL CONTROLS WHICH BECOME DISCONNECTED AS A RESULT OF DEMOLITION, EXTEND WIRING & CONDUIT AS REQUIRED TO MATCH EXISTING, UON.
G9.	PROVIDE TEMPORARY LIGHTING AS REQUIRED TO FACILITATE THE WORK OF THIS CONTRACT.
G10.	CONTRACTOR SHALL MAINTAIN POWER TO THE ENTIRE BUILDING DURING THE HOURS 7:00 AM AND 5:00 PM. ALL WORK SHALL BE PERFORMED BETWEEN THE HOURS OF 7:00 AM AND 11:00 PM. ALL ELECTRICAL SHUTDOWNS MUST OCCUR BETWEEN 5:00 PM AND 11:00 PM AND THE DISTRICT SHALL BE NOTIFIED 72 HOURS PRIOR TO ANY SHUTDOWNS. CONTRACTOR SHALL PROVIDE GENERATOR AND TEMPORARY PANELS AS REQUIRED TO PROVIDE TEMPORARY POWER.
G11.	THE CONTRACTOR SHALL PROVIDE AND TEMPORARILY INSTALL A PORTABLE 100KW 208V, 3-PHASE DIESEL GENERATOR DURING ALL ELECTRICAL UTILITY SHUTDOWNS. CONTRACTOR SHALL PROVIDE ALL FUEL TO MAINTAIN GENERATOR OPERATION AND SHALL ARRANGE FOR CONTINUOUS FUEL DELIVERIES AS REQUIRED FOR THE FULL DURATION OF THE GENERATOR OPERATION.
G12.	THE CONTRACTOR SHALL MEASURE (AMPROBE) THE CURRENT DRAW ON ALL FEEDERS TO PANELBOARDS THAT ARE TO BE TEMPORARILY FED. PROVIDE CURRENT DATA TO ENGINEER PRIOR TO ORDERING THE TEMPORARY GENERATOR.
G12.	IN ADDITION, THE CONTRACTOR SHALL PROVIDE ADDITIONAL GENERATORS AS REQUIRED FOR CONSTRUCTION POWER TO ACCOMPLISH THE WORK OF THIS CONTRACT AT NO ADDITIONAL COST TO THE OWNER. THE BUILDING'S ELECTRICAL DISTRIBUTION SYSTEM MAY BE USED BY ELECTRICAL CONTRACTOR FOR CONSTRUCTION POWER WHEN AVAILABLE.
G13.	THE EXISTING SINGLE LINE DIAGRAM HAS BEEN CREATED USING EXISTING DRAWINGS AND/OR BY COMPLETING FIELD SURVEYS. PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL TONE OUT AND VERIFY THE EXISTING SINGLE LINE DIAGRAM. THE CONTRACTOR SHALL PROVIDE THE OWNER/ENGINEER WITH AN UPDATED SINGLE LINE PRIOR TO BEGINNING ANY DEMOLITION WORK.

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GENERAL NOTES:

AFTER ALARM INDICATION, ALL FANS SHALL BE MANUALLY RESET INDEPENDENT FROM F.A.C.P. SYSTEM RESET. PROVIDE ALL REQUIRED HARDWARE ACCESSORIES, MOTOR STARTERS, CONTROLS, POWER AND CONTROL WIRING AND CONDUITS TO PROVIDE INDEPENDENT RESET OF ALL FANS AFTER ALARM INDICATION.

VIDE AND INSTALL ALL NECESSARY CONTROL MODULES, STARTERS, SYNCHRONIZATION MODULES AND ITOR MODULES AS REQUIRED BY MANUFACTURER.

VIDE ALL REQUIRED DUCT SMOKE DETECTORS. CONTRACTOR TO INSTALL DUCT SMOKE DETECTORS. TRACTOR TO INTERFACE ALL DUCT DETECTORS WITH FACP.

ALARM RISER DIAGRAM IS SCHEMATIC. REFER TO FLOOR PLANS FOR DEVICE TYPES AND QUANTITIES.

HVAC EQUIPMENT WITH A CFM RATING OF 1000 CFM OR GREATER SHALL BE INTERCONNECTED TO THE ALARM SYSTEM AND SHUT DOWN UPON FIRE ALARM SYSTEM ALARM ACTIVATION. CONTRACTOR SHALL PROVIDE AND INSTALL NEW SUPPLY AND RETURN DUCT SMOKE DETECTORS WITH REMOTE LED'S FOR HVAC UNITS WITH A CFM RATING OF 2000 CFM OR GREATER.

DDITION TO DEVICES SHOWN ON THE DRAWINGS CONTRACTOR TO PROVIDE TWO DUCT SMOKE ECTORS. EACH DEVICE SHALL BE INCLUDED WITH 100' OF WIRING AND/OR CONDUIT.

NUM WIRING TO BE USED IN ALL AREAS. CONDUIT MUST BE USED IN ALL MECHANICAL AND ELECTRICAL MS. CONDUIT MUST ALSO BE USED IN ALL AREAS WITH OPEN CEILINGS.

architects engineers

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

CONSULTANTS:		
MARK	DATE	DESCRIPTION
	10-16-23	FINAL BID DOCUMENT

White Plains City **School District**

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

7 Nosband Ave. White Plains, NY 10605

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

CONTRACT E **ELECTRICAL CONSTRUCTION**

FINAL BID DOCUMENT

SHEET TITLE

ONTRAC[®]

ELECTRICAL LEGENDS

LEGEND

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

ELECTRICAL GENERAL SITE PLAN NOTES:

GS1. CONTRACTOR SHALL INSPECT CONSTRUCTION SITE PRIOR TO SUBMISSION OF BIDS AND SHALL MAKE NO ADDITIONAL CLAIMS REGARDING SITE CONDITIONS THEREAFTER.

GS2. LOCATION OF ALL UNDERGROUND UTILITIES BOTH PUBLIC AND CUSTOMER OWNED, WERE OBTAINED FROM EITHER MAPS, SURVEYS, DRAWINGS AND RECORDS SUPPLIED BY OTHERS. THE OWNER AND ENGINEER DO NOT GUARANTEE OR ACCEPT RESPONSIBILITY FOR ANY DAMAGE TO SUCH FACILITIES DUE TO DISCREPANCIES IN LOCATION AND SIZE SHOWN ON THE PLANS OR THOSE UTILITIES NOT SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A PRIVATE MARKOUT COMPANY FOR DETERMINING THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK. CONTRACTOR SHALL LOCATE ALL UTILITIES WITHIN PROXIMITY OF CONSTRUCTION LIMITS.

GS3. CONTRACTOR SHALL COMPLETELY RESTORE ALL AREAS DISTURBED DURING CONSTRUCTION, INCLUDING BUT NOT LIMITED TO GRASS AREAS, LANDSCAPING, PAVEMENTS, SIDEWALKS, CURBING AND IN-GROUND SPRINKLER SYSTEMS.

GS4. THE CONTRACTOR SHALL PERFORM DAILY CLEAN-UP OPERATIONS WHICH INCLUDE REMOVAL OF DEBRIS AND EXCESS CONSTRUCTION MATERIAL TO THE SATISFACTION OF THE OWNER AND THE ENGINEER.

GS5. DURING ALL NON-WORKING HOURS, THE CONTRACTOR WILL BE REQUIRED TO STORE ALL EQUIPMENT AND MATERIALS WITHIN THE AREA DESIGNATED BY THE ENGINEER AT THE PROJECT SITE.

GS6. PROVIDE TEMPORARY FENCING TO PROTECT WORK AREAS.

GS7. CONTRACTOR SHALL MINIMIZE REMOVAL OF EXISTING TREES. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE LAYOUT, TAGGING AND REMOVAL OF TREES REQUIRED TO COMPLETE ALL WORK. OWNER SHALL APPROVE TREES TO BE REMOVED PRIOR TO ACTUAL REMOVALS. REMOVALS SHALL INCLUDE REMOVAL OF COMPLETE STUMP AND ROOT SYSTEM. CONTRACTOR NOT PERMITTED TO GRIND STUMPS.

GS8. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LAYOUT SURVEY, ETC. AS REQUIRED TO COMPLETE THE

GS9. CONCRETE SIDEWALKS SHALL BE SAWCUT BACK TO EXPANSION/ CONTROL JOINTS.

GS10. CONTRACTOR SHALL PROVIDE AND TEMPORARILY INSTALL TRAFFIC RATED STEEL PLATES OVER ALL TRENCHES SUCH THAT TRAFFIC AND WALKING PATTERNS ARE MINIMALLY DISTURBED. PROVIDE AND INSTALL TRAFFIC SIGNS AND SIDEWALK SIGNS AS REQUIRED TO DIRECT TRAFFIC OF PEDESTRIANS AND AUTOMOBILES.

ELECTRICAL DEMOLITION SITE PLAN KEY NOTE:

D1. CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING SERVICE AND SERVICE RISER ONCE CONSTRUCTION IS COMPLETED. REMOVE AND DISPOSE OF EXISTING PRIMARY AND SECONDARY SERVICE CONDUCTORS. CUT BACK EXISTING CONDUITS TO BELOW GRADE AND REPAIR SURFACES TO MATCH EXISTING. CONTRACTOR SHALL COORDINATE REMOVAL OF EXISTING UTILITY TRANSFORMERS WITH ELECTRICAL UTILITY.

ELECTRICAL SITE PLAN KEY NOTES:

S1. NEW UTILITY TRANSFORMER PAD/ PULL BOX AS PER UTILITY REQUIREMENTS.

S2. SAWCUT EXISTING PAVEMENT/ SIDEWALK/ CURBING FOR INSTALLATION OF NEW CONDUITS. REMOVE AND DISPOSE OF ALL DEBRIS.

S3. CONTRACTOR SHALL STUB ALL CONDUITS INTO BUILDINGS BELOW GRADE. NO EXTERIOR CONDUITS PERMITTED TO RUN EXPOSED ON EXTERIOR WALLS. SAWCUT FLOOR AND CORE DRILL FOUNDATIONS AS REQUIRED. SEAL ALL CONDUIT PENETRATIONS WITH LINK SEALS AND SEAL ALL CONDUIT WITH DUCT SEAL. RESTORE ALL FLOOR FINISHES WITH NEW CONCRETE. RESTORE FLOOR FINISHES TO MATCH EXISTING.

S4. NEW ELECTRIC SERVICE RISER AS PER UTILITY REQUIREMENTS

S5. ALL HORIZONTAL CONDUITS BETWEEN THE NEW UTILITY PAD MOUNTED TRANSFORMER AND THE EXISTING BUILDING SHALL BE INSTALLED 24" BELOW GRADE MINIMUM. CONDUITS SHALL BE PITCHED DOWN AND AWAY FROM BUILDING.

P1. INITIATE NEW SERVICE INSTALLATION WITH CON EDISON AND HAVE ALL AREAS, WHERE EXCAVATION TRENCHING WILL OCCUR, MARKED OUT FOR LOCATION OF EXISTING UTILITIES.

P2. PROVIDE AND INSTALL NEW CONCRETE HOUSE KEEPING PAD FOR NEW SWITCHBOARD.

P3. PROVIDE AND INSTALL NEW CONCRETE PAD/PULL BOX FOR NEW UTILITY PAD MOUNTED TRANSFORMER. PROVIDE AND INSTALL NEW PROPERTY LINE PULL BOX

P4. PROVIDE AND INSTALL NEW SWITCHBOARD. INSTALL NEW REMOTE UTILITY METER AND ALL ASSOCIATED WIRING AND CONDUIT.

P5. COMPLETELY PROVIDE AND INSTALL NEW SECONDARY FEEDERS AND CONDUIT FROM UTILITY TRANSFORMER PAD/PULL BOX TO NEW SWITCHBOARD. PROVIDE AND SECURELY INSTALL STEEL PLATES AS REQUIRED WHEN NOT WORKING TO ALLOW FOR NORMAL FLOW OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.

P6. PROVIDE AND INSTALL NEW PRIMARY FEEDERS BETWEEN THE NEW PROPERTY LINE PULL BOX "PB1" AND TRANSFORMER PAD/PULL BOX. PROVIDE AND SECURELY INSTALL STEEL PLATES AS REQUIRED WHEN NOT WORKING TO ALLOW FOR NORMAL FLOW OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.

P7. PROVIDE AND INSTALL NEW FEEDERS BETWEEN NEW SWITCHBOARD AND EXISTING PANEL "MDP".

P8. COORDINATE WITH DISTRICT AND CON EDISON FOR POWER OUTAGE DATE AND TIME. PROVIDE AND INSTALL TEMPORARY GENERATOR AND TEMPORARY POWER FEEDS AS REQUIRED TO MAINTAIN POWER TO THE EXISTING SWITCHBOARD DURING NORMAL WORKING HOURS. HAVE CON EDISON DE-ENERGIZE EXISTING ELECTRICAL SYSTEM. ENERGIZE EXISTING SYSTEM VIA TEMPORARY GENERATOR IF REQUIRED. THE TEMPORARY GENERATOR IS CONSIDERED A SEPARATELY DERIVED SYSTEM. THERE SHALL BE A NEUTRAL TO GROUND BOND AT THE TEMPORARY GENERATOR. THE TEMPORARY GENERATOR SHALL BE BONDED TO THE BUILDING GROUNDING ELECTRODE AND SHALL HAVE (2) #2 AWG BARE COPPER GROUND WIRES TO TWO (2) 5/8" X 8' COPPER PLATED GROUND RODS. THE CONTRACTOR SHALL OPEN AND LOCK THE EXISTING UTILITY MAIN DISCONNECT TO ENSURE THAT NO POWER IS BACK FED TO THE UTILITY.

P9. HAVE CON EDISON INSTALL NEW PAD MOUNTED TRANSFORMER. DE-ENERGIZE TEMPORARY GENERATOR. ENERGIZE NEW PRIMARY FEEDERS, TRANSFORMER, SECONDARY FEEDERS, NEW ELECTRICAL DISTRIBUTION EQUIPMENT, EXISTING ELECTRICAL DISTRIBUTION EQUIPMENT, AND REMOTE METER.

architects engineers

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

CONSULTANTS:		
MADK		DESCRIPTION
	DATE	DESCRIPTION
	10-16-23	FINAL BID DOCUMENT

White Plains City **School District**

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

7 Nosband Ave. White Plains, NY 10605

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

CONTRACT E **ELECTRICAL CONSTRUCTION**

FINAL BID DOCUMENT

SHEET TITLE

ONTRAC⁷

ELECTRICAL SITE PLANS

ES 100.00

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

- CABLES, BACK TO SOURCE UNLESS OTHERWISE NOTED.
- CIRCUIT WHEN THE DRAWINGS CALL FOR REMOVAL AND/OR DISPOSAL OF A DEVICE ON THAT CIRCUIT.
- PATCHED UNLESS OTHERWISE NOTED. SURFACE SHALL BE PRIMED AND PAINTED TO MATCH EXISTING.
- CONTRACTOR SHALL REROUTE EXISTING CONDUIT AND WIRING. PROVIDE CONDUIT, WIRE, AND JUNCTION BOXES AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. COORDINATE WITH OTHER TRADES.
- MODIFYING EXISTING AND/OR NEW FIRE ALARM DEVICES. PROGRAM SYSTEM AS REQUIRED TO INSTALL NEW

DEMOLITION INCLUDING BUT NOT LIMITED TO DISCONNECT SWITCHES, MOTOR STARTERS, ASSOCIATE FIRE ALARM DEVICES, WIRE AND CONDUIT BACK TO SOURCE. REFER TO CONTRACT 'H' DRAWINGS FOR ADDITIONAL INFORMATION.

LEGEND

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

ELECTRICAL GENERAL DEMOLITION 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.
- 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 NOTES:

- D1. CONTRACT 'H' 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, ASSOCIATE FIRE ALARM DEVICES, WIRE AND CONDUIT BACK TO SOURCE. REFER TO CONTRACT 'H' DRAWINGS FOR ADDITIONAL INFORMATION.
- D2. 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 FLUSH WITH THE SURFACE AND FLOOR/WALL SHALL BE PATCHED. REPAIR, RESTORE, PAINT & REFINISH TO MATCH ORIGINAL APPEARANCE OF ALL WALLS, CEILINGS, AND ALL BUILDING FINISHES THAT ARE DISTURBED IN DEMOLITION OR INSTALLATION.
- D3. CONTRACTOR SHALL TURN EXISTING UTILITY METER OVER TO ELECTRIC UTILITY.

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

- CABLES, BACK TO SOURCE UNLESS OTHERWISE NOTED.
- CIRCUIT WHEN THE DRAWINGS CALL FOR REMOVAL AND/OR DISPOSAL OF A DEVICE ON THAT CIRCUIT.
- PATCHED UNLESS OTHERWISE NOTED. SURFACE SHALL BE PRIMED AND PAINTED TO MATCH EXISTING.
- CONTRACTOR SHALL REROUTE EXISTING CONDUIT AND WIRING. PROVIDE CONDUIT, WIRE, AND JUNCTION BOXES AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. COORDINATE WITH OTHER TRADES.
- MODIFYING EXISTING AND/OR NEW FIRE ALARM DEVICES. PROGRAM SYSTEM AS REQUIRED TO INSTALL NEW

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

LECTRICAL GENERAL NOTE: 1. NO WORK SHOWN HERE. THIS DRAWING IS FOR REFERENCE ONLY.		
	ROOF	
Flectrical Partial Second Floo	\mathbf{r} Demolition Plan A \mathbf{A}	
SCALE: 1/8"=1'-0"		

LEGEND

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

ELECTRICAL GENERAL DEMOLITION 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.
- 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 'H' 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, ASSOCIATE FIRE ALARM DEVICES, WIRE AND CONDUIT BACK TO SOURCE. REFER TO CONTRACT 'H' DRAWINGS FOR ADDITIONAL INFORMATION.

- ON SITE TO AVOID ALL EXISTING EQUIPMENT AND OBSTACLES AND SHALL RE-ROUTE AS REQUIRED.

- CONTRACTOR SHALL COREDRILL WALL/FLOOR/CEILING AS REQUIRED. INSTALL NON SHRINK
- 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

ELECTRICAL GENERAL NOTES:

- G1. REFER TO SINGLE LINE DIAGRAM FOR WIRE AND CONDUIT SIZE AND QUANTITIES FOR NEW PANEL FEEDERS.
- G2. CONTRACTOR SHALL NOTE THAT ALL WIRE AND CONDUIT ROUTING SHOWN ON THIS DRAWING IS DIAGRAMMATICAL. PRIOR TO BIDDING, CONTRACTOR SHALL FIELD VERIFY EXACT WIRE AND CONDUIT ROUTING
- G3. CONTRACTOR SHALL NOTE ALL EXISTING SPARE CIRCUIT BREAKERS SCHEDULED TO BE REMOVED DUE TO
- G4. CONTRACTOR SHALL RECONFIGURE PANEL AS REQUIRED TO ACCOMMODATE NEW CIRCUIT BREAKERS.
- G5. REFER TO DRAWING E 110 FOR PANEL "1H" LOCATION.

ELECTRICAL KEY NOTES:

- CONTRACTOR SHALL REMOVE, CLEAN AND TURN OVER TWO (2) EXISTING 20A/1P SPARE CIRCUIT BREAKER IN EXISTING PANEL TO SCHOOL DISTRICT. PROVIDE AND INSTALL A NEW 15A/2P CIRCUIT BREAKER IN EXISTING PANEL. PROVIDE AND INSTALL ALL MOUNTING HARDWARE AS REQUIRED. NEW CIRCUIT BREAKER SHALL BE LISTED/LABELED FOR USE IN EXISTING PANEL. AMPERE INTERRUPTING CAPACITY (AIC) RATING ON NEW CIRCUIT BREAKER SHALL MATCH OR EXCEED EXISTING PANEL RATING.
- CONTRACTOR SHALL REMOVE, CLEAN AND TURN OVER EXISTING 20A/1P SPARE CIRCUIT BREAKER IN EXISTING PANEL TO SCHOOL DISTRICT. PROVIDE AND INSTALL A NEW 15A/1P CIRCUIT BREAKER IN EXISTING PANEL. PROVIDE AND INSTALL ALL MOUNTING HARDWARE AS REQUIRED. NEW CIRCUIT BREAKER SHALL BE LISTED/LABELED FOR USE IN EXISTING PANEL. AMPERE INTERRUPTING CAPACITY (AIC) RATING ON NEW CIRCUIT BREAKER SHALL MATCH OR EXCEED EXISTING PANEL RATING.
- CONTRACTOR SHALL COREDRILL WALL/FLOOR/CEILING AS REQUIRED. INSTALL NON SHRINK 3. GROUT/FIREPROOFING SEALANT FOR ALL CONDUIT PENETRATIONS. RESTORE ALL FINISH TO MATCH EXISTING.

ELECTRICAL GENERAL NOTES:

- G1. REFER TO SINGLE LINE DIAGRAM FOR WIRE AND CONDUIT SIZE AND QUANTITIES FOR NEW PANEL FEEDERS.
- DIAGRAMMATICAL. PRIOR TO BIDDING, CONTRACTOR SHALL FIELD VERIFY EXACT WIRE AND CONDUIT ROUTING ON SITE TO AVOID ALL EXISTING EQUIPMENT AND OBSTACLES AND SHALL RE-ROUTE AS REQUIRED.
- G3. REFER TO DRAWING E 110 FOR PANEL "1H" LOCATION.
- ELECTRICAL KEY NOTES:
- CONTRACTOR SHALL PROVIDE AND INSTALL A CHANNEL SUPPORT SYSTEM AS REQUIRED TO MOUNT 1 DISCONNECT SWITCH AND/OR RECEPTACLE FROM THE ROOF CURBS SUPPORTING THE HVAC UNIT SUCH THAT THE UNIT'S MANUFACTURER'S WARRANTY IS NOT VOIDED. PROVIDE AND INSTALL ALL MOUNTING HARDWARE AND ACCESSORIES AS REQUIRED TO MAINTAIN WORKING CLEARANCE AS PER NEC 110.26. MAINTAIN ALL CLEARANCES FROM THE HVAC UNIT AS REQUIRED BY THE IMC.
- CONTRACTOR SHALL NOTE CONDENSING UNITS CONSISTS OF MULTIPLE MODULES WITH DIFFERENT ELECTRICAL REQUIREMENT. VERIFY EXACT LOCATION OF MODULES WITH CONTRACT 'H' PRIOR TO TERMINATING EACH CIRCUITS.
- CONTRACTOR SHALL COREDRILL WALL/FLOOR/CEILING AS REQUIRED. INSTALL NON SHRINK 3. GROUT/FIREPROOFING SEALANT FOR ALL CONDUIT PENETRATIONS. RESTORE ALL FINISH TO MATCH EXISTING.

ELECTRICAL GENERAL NOTE:

G1. REFER TO DRAWING E 120 FOR PANEL "2H" LOCATION.

ELECTRICAL KEY NOTES:

- FACTORY PROVIDED NON-FUSED DISCONNECT SWITCH. CONTRACTOR SHALL PROVIDE AND INSTALL ALL WIRE 1. AND CONDUIT AS REQUIRED TO TERMINATE TO FACTORY PROVIDED DISCONNECT SWITCH FOR A FULLY FUNCTIONING SYSTEM.
- CONTRACTOR SHALL PROVIDE AND INSTALL A CHANNEL SUPPORT SYSTEM AS REQUIRED TO MOUNT 2. DISCONNECT SWITCH AND/OR RECEPTACLE FROM THE ROOF CURBS SUPPORTING THE HVAC UNIT SUCH THAT THE UNIT'S MANUFACTURER'S WARRANTY IS NOT VOIDED. PROVIDE AND INSTALL ALL MOUNTING HARDWARE AND ACCESSORIES AS REQUIRED TO MAINTAIN WORKING CLEARANCE AS PER NEC 110.26. MAINTAIN ALL CLEARANCES FROM THE HVAC UNIT AS REQUIRED BY THE IMC.
- CONTRACTOR SHALL NOTE CONDENSING UNITS CONSISTS OF MULTIPLE MODULES WITH DIFFERENT 3. ELECTRICAL REQUIREMENT. VERIFY EXACT LOCATION OF MODULES WITH CONTRACT 'H' PRIOR TO TERMINATING EACH CIRCUITS.

- MODIFYING EXISTING AND/OR NEW FIRE ALARM DEVICES. PROGRAM SYSTEM AS REQUIRED TO INSTALL NEW DEVICES.

- AND CONDUIT AS REQUIRED TO TERMINATE TO FACTORY PROVIDED DISCONNECT SWITCH FOR A FULLY FUNCTIONING SYSTEM.
- CONTRACTOR SHALL PROVIDE AND INSTALL A CHANNEL SUPPORT SYSTEM AS REQUIRED TO MOUNT THE UNIT'S MANUFACTURER'S WARRANTY IS NOT VOIDED. PROVIDE AND INSTALL ALL MOUNTING HARDWARE AND ACCESSORIES AS REQUIRED TO MAINTAIN WORKING CLEARANCE AS PER NEC 110.26. MAINTAIN ALL CLEARANCES FROM THE HVAC UNIT AS REQUIRED BY THE IMC.
- ELECTRICAL REQUIREMENT. VERIFY EXACT LOCATION OF MODULES WITH CONTRACT 'H' PRIOR TO TERMINATING EACH CIRCUITS.

- FIELD VERIFIED BY THE CONTRACTOR.
- MAKE A PROPER CONNECTION TO EXISTING FIRE ALARM CONTROL PANEL "FACP" LOCATED IN THE BASEMENT USING MANUFACTURER'S RECOMMENDED WIRING IN 3/4" E.C. CONTRACTOR SHALL PROVIDE AND EXISTING POWER/DATA FEEDS TO NEW FIRE ALARM DEVICE LOCATION. PROVIDE AND INSTALL ALL EXPANSION CARDS, WIRE/CONDUIT, RELAYS, POWER SUPPLIES, BATTERIES, EXTENDERS, PROGRAMMING, MOUNTING HARDWARE,

FIRE DOOR C	LASSIFIED OPENINGS
RATING	GLASS SIZE PERMITTED
3 Hrs.	NONE
1[1 2] Hrs.	100 sq.in. / DOOR LEAF
[3 4] Hr.	1296 sq.in. / DOOR LEAF
1[1 2] Hrs.	NONE
[3 4] Hr.	1296 sq.in.

G				FRAME		DETAILS		FIRE	HARDWARE	REMARKS
		MATERIAL	TIPE	HEAD	JAMB	SADDLE	RATING	SET		
	А	WD	HM	H1	J1	-	45 MIN.	HW1	V.I.F. DOOR TO MATCH EXISTING	
	EX	EX	EX	EX	EX	-	EX	HW1		
=	W	OOD	EX =	EXISTING						

EXISTING WALL CONSTRUCTION TO REMAIN	
ANCHOR INTO EXISTING WALL	
	>
PATCH AND REPAIR ANY AREAS DAMAGED BY REMOVAL OF EXISTING DOOR AND FRAME -	
FINISH TO MATCH EXISTING	

EXISTING POLE MOUNTED UTILITY TRANSFORMER ÍNN EXISTING PROPERTY EXISTING LINE PULL BOX "PB"-SECONDARY SERVICE FEEDERS AND CONDUIT FIRST FLOOR —EXISTING PANEL "MDP" PANEL EXISTING ------LBP & SECONDARY PANEL PANEL PANEL PANEL KP SPARE SPARE PPM LPC & LPB SERVICE FEEDERS LPA MP-2 -EXISTING TRANS "S" \checkmark \checkmark \sim AND CONDUIT METERING CABINET 30A/3P 100A/3P 200A/3P 200A/3P 200A/3P 200A/3P 300A/3P 800A/3F MCB

EXISTING UTILITY POLE -----

architects

D	ER SCHEDULE
R	CONDUCTOR AND CONDUITS FEEDER SCHEDULE
	4 #1 AWG + #4 AWG IN 2" E.C.
	METERING CONDUCTORS AND CONDUIT AS PER PSEGLI REQUIREMENTS IN 1-1/2" E.C.
	NEW PRIMARY CONDUCTORS AS PER UTILITY REQUIREMENTS
	6 SETS OF 4-500 MCM IN (6) 4" E.C.
	MICRO-Z CABLE IN 1" E.C.
	4 #2/0 AWG + #3 AWG GND IN 2" E.C.
	4-500MCM + #1 AWG GND IN 4" E.C.
	2 SETS OF 4-350 MCM + #1 AWG GND IN (2) 3-1/2" E.C.
	#3/0 AWG GND TO UNDERGROUND METAL WATER MAIN AND #3/0 AWG GND TO 3/4" X 10' SOLID COPPER GROUND ROD VIA METAL FRAME OF BUILDING AND #3/0 AWG GND FROM METAL WATER MAIN PIPING SYSTEM TO METAL FRAME OF BUILDING.
	GROUNDING AS PER UTILITY REQUIREMENTS
	2 SETS OF 4-500 MCM + #1/0 AWG GND IN (2) 4" E.C.
	4 #3 AWG + #8 AWG IN 1-1/4" E.C.

	N		engineers
	2700 Westch Purch 914.358.56	ester Av ase, NY 23 • wwv	/e., Suite 415 10577 w.h2m.com
CONSULTANTS:			
MARK	DATE		DESCRIPTION
	10-16-23	F	INAL BID DOCUMENT
	LICENS	OF NEW	MIX 4102 N

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 E **ELECTRICAL CONSTRUCTION**

FINAL BID DOCUMENT

SHEET TITLE

CONTRACT

ELECTRICAL SINGLE LINE DIAGRAM

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				635	X////	<i>[]]]</i>	6	┠┼┤	5				15A/2P	HACK	BC-1, BC-2
EXIS	CDP-A	HACR	15A/1P		756	180	8		$\mathcal{A}^{\frac{7}{0}}$	¥4		58	15A/2P	HACR	AC-14
EXIS	UV-12	HACR	15A/1P	756		₹////			<u>77 9</u> 5 11	$\mathbf{X}_{\bar{i}}$			15A/1P	HACR	UV-15B
EXIS	SPARE		20A/1P			-	14	╏╺┥╴┤	13	XZ		756	15A/1P	HACR	UV-17
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HACR alanced to with	45A/3P hin 7% using	Connected To Actual Load T	otals: Fotals.)	ØA ØB ØC Total	13.9 14.3 14.7 43.0	9 <u>K</u> VA 0 <u>K</u> VA 1 <u>K</u> VA 0 <u>K</u> VA	A A A .	120	<u>A</u> mperes	LO - H ST - SI AUX - PA - H GFCI - HACR SF - Si TC - Ti	andle lock-off hunt Trip Typ Auxiliary Con andle Padloc Ground Faul - Heating, A/ ubfeed me Clock Co	i device e tacts k Attachment t Circuit Interrup C & Refrigeratio ntrol	ter n
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HACR alanced to with	45A/3P hin 7% using I le (3-Ph RH1 EATON	Connected To Actual Load T ase)	Voltage Mains	ØA ØB ØC Total	13.9 14.3 14.7 43.0 120/208 MLO	9 <u>K</u> VA 1 <u>K</u> VA 0 <u>K</u> VA 0 <u>K</u> VA	A A A hase flains F	<u>120</u>	Amperes	LO - H ST - SI AUX - PA - H GFCI - HACR SF - Si TC - Ti	andle lock-off hunt Trip Typ Auxiliary Con andle Padloc Ground Faul - Heating, A/ ubfeed me Clock Co	r device e tacts k Attachment t Circuit Interrup C & Refrigeratio ntrol	oter n
HACR alanced to with Schedu ure	45A/3P hin 7% using Il e (3-Ph <u>RH1</u> <u>EATON</u> <u>PRL3A</u>	Connected To Connected To Actual Load T ase)	Voltage Mains Mountin	ØA ØB ØC Total	13.9 14.3 14.7 43.0 120/208 MLO SURFAC	1 <u>9 K</u> VA 1 <u>K</u> VA 1 <u>K</u> VA 0 <u>K</u> VA	A A A A Hase Iains F	 	Amperes	LO - H ST - SI AUX - H GFCI - HACR SF - Si TC - Ti	andle lock-off ount Trip Typ Auxiliary Con andle Padloc Ground Faul - Heating, A/ ubfeed me Clock Co	r device e tacts k Attachment t Circuit Interrup C & Refrigeratio ntrol	oter n
HACR alanced to with y Schedu	45A/3P hin 7% using I le (3-Ph <u>RH1</u> <u>EATON</u> PRL3A	Connected To Connected To Actual Load T ase)	Voltage Mains	ØA ØB ØC Total	13.9 14.3 14.7 43.0 120/208 MLO SURFAC	1 <u>9 K</u> VA 1 <u>K</u> VA 1 <u>K</u> VA 0 <u>K</u> VA	A A A A Inhase Inhase Inhase Inhase Inhase Inhase	 Rating	Amperes	LO - H ST - SI AUX PA - H GFCI - HACR SF - SI TC - Ti	andle lock-off nunt Trip Typ Auxiliary Con andle Padloc Ground Faul - Heating, A/ bfeed me Clock Co AIC Rati	r device e tacts k Attachment t Circuit Interrup C & Refrigeratio ntrol	oter n
HACR alanced to with 3 Schedu ure BREAKER	45A/3P hin 7% using I le (3-Ph RH1 EATON PRL3A TRIP AMPS	Connected Tc Actual Load T ase) 1 CON	Voltage Mains INECTED LC	ØA ØB ØC Total g	13.9 14.3 14.7 43.0 120/208 MLO SURFAC	<u>19 K</u> VA <u>1 K</u> VA <u>1 K</u> VA <u>0 K</u> VA <u>0 K</u> VA <u>0 K</u> VA <u>0 K</u> VA <u>0 K</u> VA	A A A A A A A A A D ptions C Z	 Rating	Amperes Wire 	LO - H ST - SI AUX PA - H GFCI - HACR SF - Si TC - Ti	Andle lock-off aunt Trip Typ Auxiliary Con andle Padloc Ground Faul - Heating, A/ ubfeed me Clock Co AIC Rati	i device e tacts k Attachment t Circuit Interrup C & Refrigeratio ntrol	
HACR alanced to with g Schedu ure BREAKER OPTION	45A/3P hin 7% using Ile (3-Ph RH1 EATON PRL3A TRIP AMPS & POLES	Connected Tc Actual Load T ase)	Voltage Mains Mountin INECTED LC	ØA ØB ØC Total g g DAD	13.9 14.3 14.7 43.0 120/208 MLO SURFAC	<u>19 к</u> үл 1 <u>к</u> үл	hase hains F Normality Nor	 	<u>Amperes</u> Wire <u></u> 600A - ONNECTED VOLT AMPER	LO - H ST - SI AUX PA - H GFCI - HACR SF - SI TC - Ti TC - Ti	Andle lock-off aunt Trip Typ Auxiliary Con andle Padloc Ground Faul - Heating, A/ ubfeed me Clock Co AIC Ration - AIC Rati	e device e tacts k Attachment t Circuit Interrup C & Refrigeratio ntrol ntrol 	22,000
HACR alanced to with g Schedu sure BREAKER OPTION	45A/3P hin 7% using I le (3-Ph RH1 EATON PRL3A TRIP AMPS & POLES	Connected To Actual Load T ase)	Voltage Mains Mounting INECTED LC DLT AMPERE	ØA ØB ØC Total	13.9 14.3 14.7 43.0 43.0 43.0 5URFAC	<u>19 K</u> VA <u>10 K</u> VA <u>11 K</u> VA <u>10 K</u> VA	hase lains F Options	120 	Amperes	LO - H ST - SI AUX - PA - H GFCI - HACR SF - Si TC - Ti C - Ti	Audie lock-off aunt Trip Typ Auxiliary Con andle Padloc Ground Faul - Heating, A/ ubfeed me Clock Co AIC Rati	e device e tacts k Attachment t Circuit Interrup C & Refrigeratio ntrol ng BREAKER OPTION	22,000
HACR alanced to with g Schedu sure BREAKER OPTION HACR	45A/3P hin 7% using IIe (3-Ph RH1 EATON PRL3A TRIP AMPS & POLES 125A/3P	Connected Tc Actual Load T ase)	Voltage Mains Mountin INECTED LC DLT AMPERE Ø B	ØA ØB ØC Total	13.9 14.3 14.7 43.0 120/208 MLO SURFAC	9 KVA 0 KVA 1 KVA 0 KVA 0 KVA 0 KVA 0 KVA 0 KVA	A A A A A A A A A A A A A A A A A A A	120 	Amperes	LO - H ST - SI AUX PA - H GFCI - HACR SF - SI TC - Ti C - Ti AUX Not	Audle lock-off aunt Trip Typ Auxiliary Con andle Padloc Ground Faul - Heating, A/ bfeed me Clock Co AIC Rati AIC Rati AMPS & POLES 50A/3P	i device e tacts k Attachment t Circuit Interrup C & Refrigeratio ntrol ntrol 	22,000 LOAD DESCRIPTION CU-5 (MODULE 1)
HACR alanced to with g Schedu ure BREAKER OPTION HACR	45A/3P hin 7% using Ile (3-Ph RH1 EATON PRL3A TRIP AMPS & POLES 125A/3P	Connected Tc Actual Load T Actual Load T ase)	Voltage Mains Mountin INECTED LC DLT AMPERE Ø B	ØA. ØB. ØC. Total 9 9 DAD 55 Ø C 11352	13.9 14.3 14.7 43.0 120/208 MLO SURFAC	<u>19 K</u> VA <u>10 K</u> VA <u>11 K</u> VA <u>10 K</u> VA <u>10 K</u> VA <u>10 K</u> VA <u>10 K</u> VA <u>10 K</u> VA	hase hase lains F 0 2 2 4 6 8	 	 Wire 600A ONNECTED VOLT AMPER Ø B 5160	LO - H ST - SI AUX PA - H GFCI - HACR SF - SI TC - Ti C - Ti	Audle lock-off aunt Trip Typ Auxiliary Con andle Padloc Ground Faul - Heating, A/ ibfeed me Clock Co AIC Rati AIC Rati AIC Rati So SoA/3P	i device e tacts k Attachment t Circuit Interrup C & Refrigeratio ntrol ng 	22,000 LOAD DESCRIPTION CU-5 (MODULE 1)
HACR alanced to with g Schedu ure BREAKER OPTION HACR HACR	45A/3P hin 7% using Ile (3-Ph RH1 EATON PRL3A TRIP AMPS & POLES 125A/3P 125A/3P	Connected Tc Actual Load T Actual Load T I I I CON VC Ø A 11352 11352	Voltage Mains Mountin INECTED LC DLT AMPERE Ø B	ØA ØB ØC Total 9 0AD 5S Ø C 11352	13.9 14.3 14.7 43.0 120/208 MLO SURFAC	<u>19 K</u> VA <u>10 K</u> VA <u>11 K</u> VA <u>10 KVA <u>10 KVA <u>10 KVA <u>10 KVA</u> <u>10 KVA <u>10 KVA</u></u></u></u></u></u></u></u></u></u></u></u></u>	hase dains F Diptions	120 	Amperes	LO - H ST - SI AUX PA - H GFCI - HACR SF - SI TC - Ti C - Ti	Andle lock-off aunt Trip Typ Auxiliary Con andle Padloc Ground Faul - Heating, A/ ubfeed me Clock Co AIC Rati - AIC Rati - AIC Rati - SoA/3P - SoA/3P	i device e tacts k Attachment t Circuit Interrup C & Refrigeratio ntrol ng 	22,000 LOAD DESCRIPTION CU-5 (MODULE 1) CU-5 (MODULE 2)
HACR alanced to with g Schedu sure BREAKER OPTION HACR HACR	45A/3P hin 7% using Ile (3-Ph RH1 EATON PRL3A TRIP AMPS & POLES 125A/3P 125A/3P	Connected Tc Actual Load T Actual Load T Actual Load T Actual Load T CON VC Ø A 11352 11352 11352 20124	Voltage Mains Mountin INECTED LC DLT AMPERE Ø B 11352 11352	ØA ØB ØC Total 9 0AD 35 Ø C 11352 11352	13.9 14.3 14.7 43.0 120/208 MLO SURFAC 02 02 02 02 02 02 02 02 02 02	9 KVA 0 KVA 1 KVA 0	A A A A A A A A A A A A A A A A A A A	120 	Amperes	LO - H ST - SI AUX PA - H GFCI - HACR SF - SI TC - Ti C - Ti AUX HACR SF - SI TC - Ti SF - SI SF - SI	Audie lock-off aunt Trip Typ Auxiliary Con andle Padloc Ground Faul - Heating, A/ bfeed me Clock Co AIC Rati AIC Rati AIC Rati SoA/3P 50A/3P	device e tacts k Attachment t Circuit Interrup C & Refrigeratio ntrol g BREAKER OPTION HACR HACR	22,000 LOAD DESCRIPTION CU-5 (MODULE 1) CU-5 (MODULE 2) TX-1
HACR alanced to with g Schedu ure BREAKER OPTION HACR HACR HACR	45A/3P hin 7% using Ile (3-Ph RH1 EATON PRL3A TRIP AMPS & POLES 125A/3P 125A/3P 125A/3P	Connected Tc Actual Load T Actual Load T Actual Load T CON 0 A 11352 11352 20124	Voltage Mains Mountin INECTED LC DLT AMPERE Ø B 111352 111352 111352 20124	ØA ØB ØC Total 9 9 0AD 5S Ø C 11352 11352	13.9 14.3 14.7 43.0 120/208 MLO SURFAC	9 KVA 1 KVA 1 KVA 0	hase Hains F A A A A A A A A A A A A A A A A A A A	 	 Wire 600A ONNECTED VOLT AMPER Ø B 5160 5160 5160	LO - H ST - SI AUX PA - H GFCI - HACR SF - SI TC - Ti - OAD RES Ø C 5160	AlC Ration Clock Control Contr	i device e tacts k Attachment t Circuit Interrup C & Refrigeratio ntrol ng 	22,000 22,000 LOAD DESCRIPTION CU-5 (MODULE 1) CU-5 (MODULE 2) TX-1 CONVENIENCE RECEPTACLE
HACR alanced to with g Schedu ure BREAKER OPTION HACR HACR HACR	45A/3P hin 7% using Ile (3-Ph RH1 EATON PRL3A TRIP AMPS & POLES 125A/3P 125A/3P 125A/3P	Connected Tc Actual Load T Actual Load T I CON 0 A 11352 11352 20124	Voltage Mains Mountin INECTED LC DLT AMPERE Ø B 11352 11352 11352 20124	ØA ØB ØC Total 9 0AD 5S Ø C 11352 11352 20124	13.9 14.3 14.7 43.0 120/208 MLO SURFAC	<u>9 K</u> V/ <u>0 K</u> V/ <u>1 K</u> V/ <u>0 K</u> V/ <u>0</u>	hase dains F Dains F 2 4 6 8 10 12 14 16 18	120	Amperes	LO - H ST - SI AUX PA - H GFCI - HACR SF - SI TC - Ti C - Ti AUX - SF - SI TC - Ti SF - SI SF - SI	AlC Ration Clock Control Contr	i device e tacts k Attachment t Circuit Interrup C & Refrigeratio ntrol ng 	22,000 22,000 LOAD DESCRIPTION CU-5 (MODULE 1) CU-5 (MODULE 2) TX-1 CONVENIENCE RECEPTACLE SPARE
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HACR alanced to with g Schedu ure BREAKER OPTION HACR HACR HACR	45A/3P hin 7% using Ile (3-Ph RH1 EATON PRL3A TRIP AMPS & POLES 125A/3P 125A/3P 125A/3P	Connected Tc Actual Load T Actual Load T Actual Load T CON VC Ø A 11352 11352 20124 Connected To	Voltage Mains Mountin INECTED LC DLT AMPERE Ø B II1352 II1352 II1352 II1352 II1352 II1352 II1352 II1352 II1352 II1352	ØA ØB ØC Total 9 0AD 5S Ø C 11352 11352 20124 ØA ØA	13.9 14.3 14.7 43.0 120/208 MLO SURFAC 02 02 02 02 02 02 02 02 02 02	9 KV/ 1 KV/ 1 KV/ 0	hase flains F lains F Options 2 4 6 8 10 12 14 16 18	120	Amperes	LO - H ST - SI AUX PA - H GFCI - HACR SF - SI TC - Ti - Not 20AD RES Ø C 5160 5160 5160 - <u>Breake</u> AS - Pi LO - H ST - SI	AllC Ration AllC	i device e tacts k Attachment t Circuit Interrup C & Refrigeratio ntrol BREAKER OPTION HACR HACR HACR Breaker i device e	22,000 22,000 LOAD DESCRIPTION CU-5 (MODULE 1) CU-5 (MODULE 2) TX-1 CONVENIENCE RECEPTACLE SPARE
HACR alanced to with g Schedu sure BREAKER OPTION HACR HACR HACR	45A/3P hin 7% using Ile (3-Ph RH1 EATON PRL3A TRIP AMPS & POLES 125A/3P 125A/3P 125A/3P 225A/3P	Connected To Actual Load T Actual Load T CON VC Ø A 11352 11352 20124 Connected To Actual Load T	otals: Totals.) Voltage Mains Mountin INECTED LC DLT AMPERE Ø B 11352 1135 11	ØA ØB ØC Total 9 0AD SS Ø C 11352 11352 11352 11352 20124 ØA ØB ØC Total	13.9 14.3 14.7 43.0 14.7 43.0 14.7 43.0 14.7 43.0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 KVA 1 KVA 1 KVA 1 KVA 0	Thase Flains F lains F Options 2 2 4 6 8 10 12 14 16 18	120	Amperes	LO - H ST - SI AUX PA - H GFCI - HACR SF - SI TC - Ti AUX - ST - SI OAD RES Ø C 5160 5160 5160 - Breake AS - PI LO - H ST - SI AUX - PA - H	AlC Rational Content of the content		22,000 22,000 LOAD DESCRIPTION CU-5 (MODULE 1) CU-5 (MODULE 2) TX-1 CONVENIENCE RECEPTACLE SPARE
HACR alanced to with g Schedu sure BREAKER OPTION HACR HACR HACR HACR	45A/3P hin 7% using Ile (3-Ph RH1 EATON PRL3A TRIP AMPS & POLES 125A/3P 125A/3P 125A/3P 225A/3P	Connected To Actual Load T Actual Load T CON VC Ø A 11352 11352 20124 Connected To Actual Load T	otals: Totals.) Voltage Mains Mountin INECTED LC DLT AMPERE Ø B 11352 11352 11352 20124 rtals: 'otals.)	ØA ØB ØC Total 9 0AD 5S Ø C 11352 11352 11352 11352 20124 ØA ØB ØC Total	13.9 14.3 14.7 43.0 120/208 MLO SURFAC 02 02 1 1 3 5 7 9 11 13 5 53.5 53.3 53.1 160.0	9 KVA 0 KVA 1 KVA 0 KVA	Thase Phase Plains F Poptions 00 0200 2 4 6 8 10 12 14 16 18 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	 	Amperes	4 LO - H ST - SI AUX PA - H GFCI - HACR SF - SI TC - TI AUX - Not COAD RES Ø C 5160 5160 - Breake AS - PI LO - H ST - SI AUX - PA - H GFCI - HACR	AlC Rational Content of the content		ter n 22,000 LOAD DESCRIPTION CU-5 (MODULE 1) CU-5 (MODULE 2) TX-1 CONVENIENCE RECEPTACLE SPARE

Panel Wiring Schedule (3-Phase) Panelboard Manufacturer Mains EATON Panel Type PRL3A Mountin NEMA Type Enclosure ____ TRIP CONNECTED LO BREAKER AMPS LOAD DESCRIPTION VOLT AMPERE OPTION & POLES Ø A Ø B 20124 HACR ERU-3 20124 125A/3P 5160 HACR CU-6 (MODULE 1) 50A/3P 5160 6996 HACR CU-6 (MODULE 2) 70A/3F 6996 TX-2 SPARE SPARE SPARE SPARE SPARE HACR 15A/1F 420 20A/1F 20A/1P 20A/1P 20A/1P 11111 20A/1P

Connected Totals:

(All Phases to be balanced to within 7% using Actual Load Totals.)

e	I gS	120/2 MLO SURF	08 ACE		Phas Main Optic	se is R ons	<u>3</u> lating	Wire	4 Note	AIC Rati	ng	22,000
.0)AD	o.	Δ			C. NO.	CON	NNECTED LO	DAD	TRIP AMPS	BREAKER	
	<u>د</u>	z ci	ÎĘ	B			V		C C			LOAD DESCRIPTION
	.o ØC	CIR(ç	CIR			o POLES	OPTION		
		1			Ŀŀ	2	U A 11352					
-		3		+		4		11352		125A/3P	HACR	ERU-5
7	20124	5		+-	┡	6		/////	11352		-	
7	/////	7		_		8	7428		/////			
		9		+		10		7428		70A/3P	HACR	CU-4
2	5160	11		+	┝──	12			7428			
2		13		-		14	250			15Δ/2P	HACR	AC-214 215 216 217 218 219
_		15		+	H	16		250		10/1/21	HAON	
4	6996	17		+	┝──┟╴	18			208	15A/2P	HACR	AC-204,206,207,209,211
4		19		+		20	208					
7		21		+	H.	22		1080		20A/1P	HACR	CDP-A
4	-	23		┢		24			900	20A/1P	HACR	CDP-A
4		25 27				26 28		32		15A/2P	HACR	BC-4,8,9
7	-	29		\downarrow		30			-	20A/1P		SPARE
	ØA_ ØB_ ØC_ Total _	ØA <u>51.96</u> KV ØB <u>52.42K</u> V ØC <u>52.17K</u> V Total <u>156.55</u> KV					435	Amperes	Breaker AS - Po LO - Ha ST - Shi AUX - A PA - Ha GFCI - 0 HACR - SF - Sul TC - Tin	Options: werlink AS E indle lock-off unt Trip Type uuxiliary Con indle Padlocl Ground Faul Heating, A/0 bfeed ne Clock Col	Breaker device a tacts < Attachment t Circuit Interrup C & Refrigeration	ter n

7 Nosband Ave. White Plains, NY 10605

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

CONTRACT E ELECTRICAL CONSTRUCTION

FINAL BID DOCUMENT

SHEET TITLE

CONTRAC

ELECTRICAL PANEL SCHEDULES

G No.

1. CONTRACTOR SHALL PROVIDE AND INSTALL MAIN CIRCUIT BREAKER WITH ARC REDUCTION MAINTENANCE SWITCH AS PER NEC 2017 240.87 REQUIREMENT.

SHEET TITLE

ELECTRICAL SWITCHBOARD ELEVATION

E 500.00

WING No.

