

REMOVAL NOTES:

- THE SCOPE OF REMOVAL SHOWN ON "REMOVALS" DRAWINGS IS DIAGRAMMATIC ONLY AND INDICATES THE INTENT OF THE WORK TO BE PERFORMED AND NOT THE COMPLETE SCOPE OF DEMOLITION AND/OR REMOVAL WORK. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO REMOVE ANY RELATED MECHANICAL DEVICES EVEN IF NOT SPECIFICALLY INDICATED TO BE REMOVED ON THESE DRAWINGS IN ORDER TO ACCOMMODATE NEW WORK.
- DEVICES SHOWN CROSS HATCHED ON DRAWINGS ARE ITEMS TO BE REMOVED. ANY DEVICES REMOVED SHALL INCLUDE (BUT SHALL NOT BE LIMITED TO) THE REMOVAL OF ALL ASSOCIATED PIPING, CONTROLS, ETC. THAT ARE NOT INCORPORATED IN THE NEW LAYOUT, UNTIL SUCH REMOVAL IS COMPLETE. THIS CONTRACTOR SHALL PERFORM ALL WORK REQUIRED TO INSURE CONTINUITY OF SERVICE TO EXISTING REMAINING EQUIPMENT. NO EXTRAS RELATING TO THE SCOPE OF WORK DESCRIBED WILL BE ALLOWED.
- 3 EQUIPMENT, PIPING, ETC., REQUIRED TO RECONNECT SHALL BE INSTALLED CONCEALED WITHIN THE NEW SUSPENDED CEILINGS, PARTITIONS AND/OR WALLS, FLOORS, NO SURFACE MOUNTED OR EXPOSED EQUIPMENT, PIPING, ETC., SHALL BE PERMITTED, UNLESS SPECIFICALLY INDICATED.
- ALL ITEMS TO BE REMOVED SHALL BE REVIEWED WITH THE OWNER PRIOR TO REMOVAL. OWNER SHALL HAVE FIRST SALVAGE RIGHTS. ITEMS THE OWNER WISHES TO KEEP SHALL BE REMOVED WITH CARE AND STORED AS DIRECTED BY OWNER. ITEMS THE OWNER DOES NOT WISH TO KEEP SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.

GENERAL NOTES

1 PAINT NEW AND EXISTING PIPING AND DUCTWORK. COLOR AS DIRECTED BY ARCHITECT.

/	HVAC LEGEND
	NEW DUCTWORK 1" THERMAL ACOUSTIC LINING-DUCT SIZES ON PLANS ARE CLEAR INSIDE DIMENSIONS FLEXIBLE CONNECTION NEW DUCTWORK
	NEW DUCTWORK ——POINT OF CHANGE IN DUCT SIZE SQUARE DUCT TURN WITH TURNING VANES
	TYPE -SEE SCHEDULE NEW 4-WAY CEILING DIFFUSER
	TYPE -SEE SCHEDULE
	NEW 3-WAY CEILING DIFFUSER ———————————————————————————————————
	NEW 2—WAY CEILING DIFFUSER ————————————————————————————————————
	CEILING EXHAUST/RETURN REGISTER
(*)*** <u></u>	REGISTER/DIFFUSER IDENTIFICATION
-D ➤ -R ➤	DUCT DROP; DUCT RISE
	DUCT MTD. MANUAL AIR VOLUME DAMPER (W/LOCKING DEVICE)
 -	MOTORIZED AIR VOLUME DAMPER (W/ACCESS DOOR)
,	FIRE DAMPER (U.L. APPROVED) & ACCESS DOOR
——— EHWS——	EXISTING HOT WATER HEATING SUPPLY PIPING
— EHWR / EHWRR—	EXISTING HOT WATER RETURN / HOT WATER REVERSE RETURN PIP
——HWS——	HOT WATER HEATING SUPPLY PIPING
—	HOT WATER RETURN / HOT WATER REVERSE RETURN PIPING
	LIQUID REFRIGERANT PIPING
&	SUCTION REFRIGERANT PIPING
<u> </u>	
CD	CONDENSATE DRAIN PIPING
	FLOW DIRECTION WITHIN PIPE — CONNECTION TO EQUIPMENT ABOVE
<u> </u>	GATE VALVE (HORIZONTAL/VERTICAL)
	COMBINATION BALANCING & SHUT-OFF VALVE (CIRCUIT SETTER)
<u> </u>	2 – WAY CONTROL VALVE
-1 7 1 -Ø 	CHECK VALVES
	PIPE CONNS. (BOTTOM; TOP 45 OR 90; PIPE UP)
}× = = □□× }	EXPANSION JOINT, ANCHOR AND GUIDES
UVAC *	UNIT VENTILATOR IDENTIFICATION
	UNIT VENTILATOR INTAKE IDENTIFICATION
<u>CH</u>	CABINET HEATER IDENTIFICATION
	DUST COLLECTOR IDENTIFICATION
ERU.	ENERGY RECOVERY UNIT IDENTIFICATION
(HP)	HEAT PUMP UNIT IDENTIFICATION
	INDOOR FANCOIL UNIT IDENTIFICATION
(F)	FLOW SELECTOR UNIT IDENTIFICATION
CH *	CABINET UNIT HEATER IDENTIFICATION
CONY *	HOT WATER CONVECTOR IDENTIFICATION
HWC *	HOT WATER COIL IDENTIFICATION
CONY	EXISTING HOT WATER CONVECTOR IDENTIFICATION
(CRAD) EXIST	EXISTING CEILING RADIATOR IDENTIFICATION
UV EXIST	EXISTING UNIT VENTILATOR IDENTIFICATION
UVI EXIST	EXISTING UNIT VENTILATOR INTAKE IDENTIFICATION
(SF EXIST)	EXISTING SUPPLY AIR FAN IDENTIFICATION
(UH EXIST)	EXISTING UNIT HEATER IDENTIFICATION
EF EXIST)	EXISTING EXHAUST FAN IDENTIFICATION
FT-*	
* -	NEW FIN TUBE RADIATION IDENTIFICATION
EXIST	EXISTING FIN TUBE RADIATION IDENTIFICATION TO CONTROLLED ITEM.
<u></u>	WALL MTD.(5'-2"±.A.F.F-U.O.N.) TEMPERATURE SENSOR
-U ►	DOOR UNDERCUT
CD	CEILING DIFFUSER
CR	CEILING REGISTER
TR	TOP WALL REGISTER
CFM	CUBIC FEET PER MINUTE
CV	MOTORIZED CONTROL VALVE
AFF	ABOVE FINISHED FLOOR
OAI/FAI	OUTSIDE (FRESH) AIR INTAKE
,	,
HVAC	HEATING, VENTILATING, AIR CONDITIONING CONTRACTOR
FC	FLEXIBLE CONNECTION
FSC	FULL SIZE CONNECTION

AD

FD

ACCESS DOOR

FIRE DAMPER

-DRAWING NUMBER

POINT OF DISCONNECTION

- SECTION/ELEVATION IDENTIFICATION

POINT OF CONNECTION, NEW TO EXISTING

- SECTION/DETAIL/ELEVATION/PART PLAN NUMBER

MOUNT PLEASANT CENTRAL SCHOOL DISTRICT

2022 CAPITAL BOND PROJECT PHASE 1

WESTLAKE MIDDLE / HIGH SCHOOL

M = M \ S I

2 LYON PLACE WHITE PLAINS, NY 10601 914.915.9519 MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
THE LA GROUP
179 GRAHAM ROAD
ITHACA, NY 14850

STRUCTURAL CONSULTANT

REILLY TARANTINO ENGINEERING

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39 MARBLE AVE.

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SECURITY CONSULTANT

BUILDING TECHNOLOGY CONSULTING

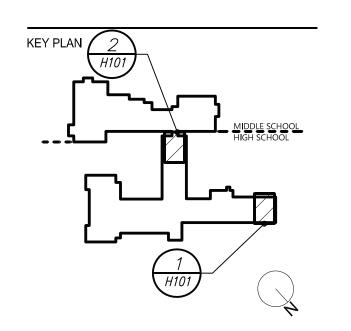
992 BEDFORD STREET

BRIDGEWATER, MA 02324

HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
250 W 34TH ST., 4TH FLOOR

NEW YORK, NY 10119

SSUED FOR BID 09/22/2023
SSUE DATE



 SED PROJECT NO.
 66-08-01-06-0-005-025

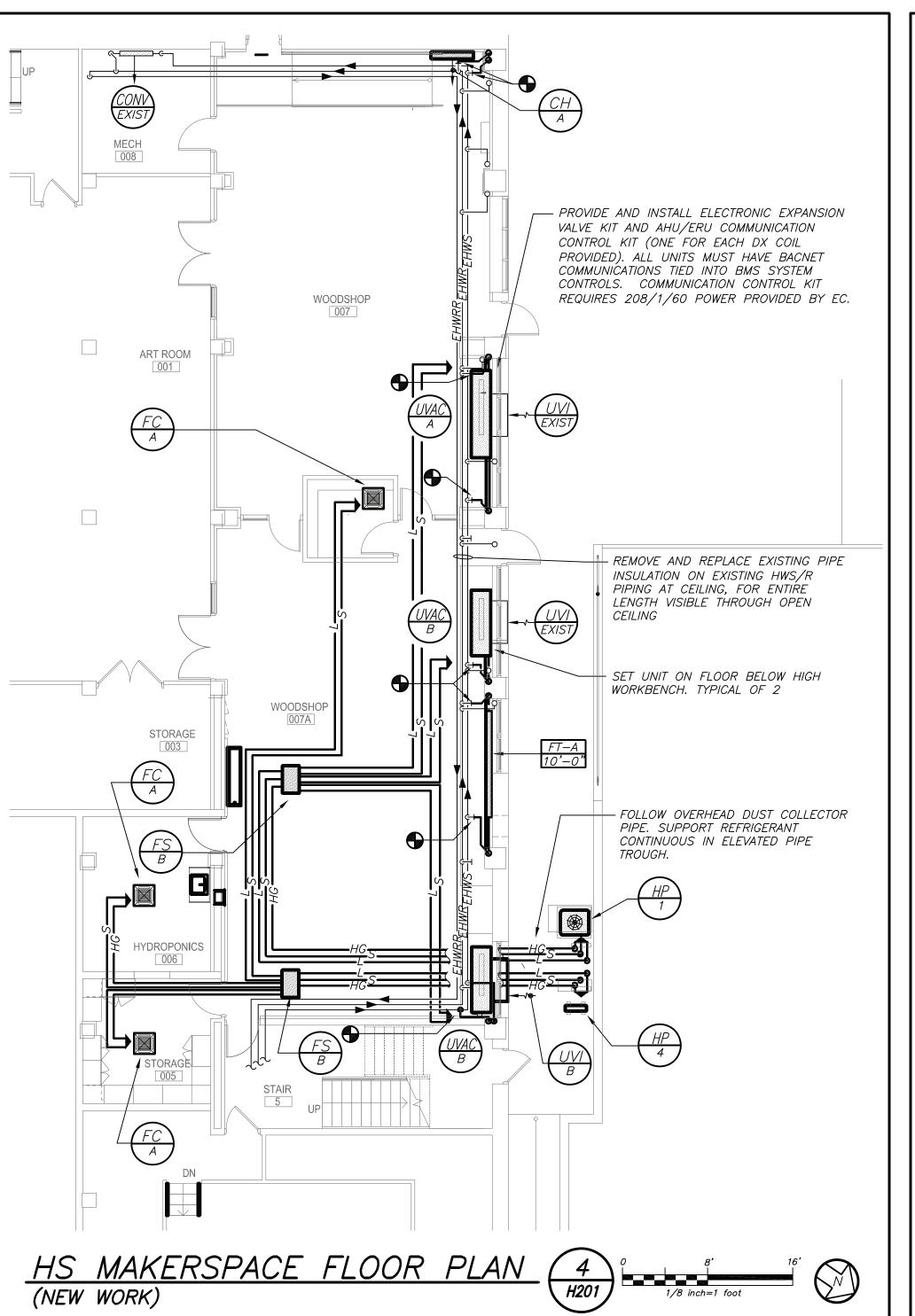
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 107-2201

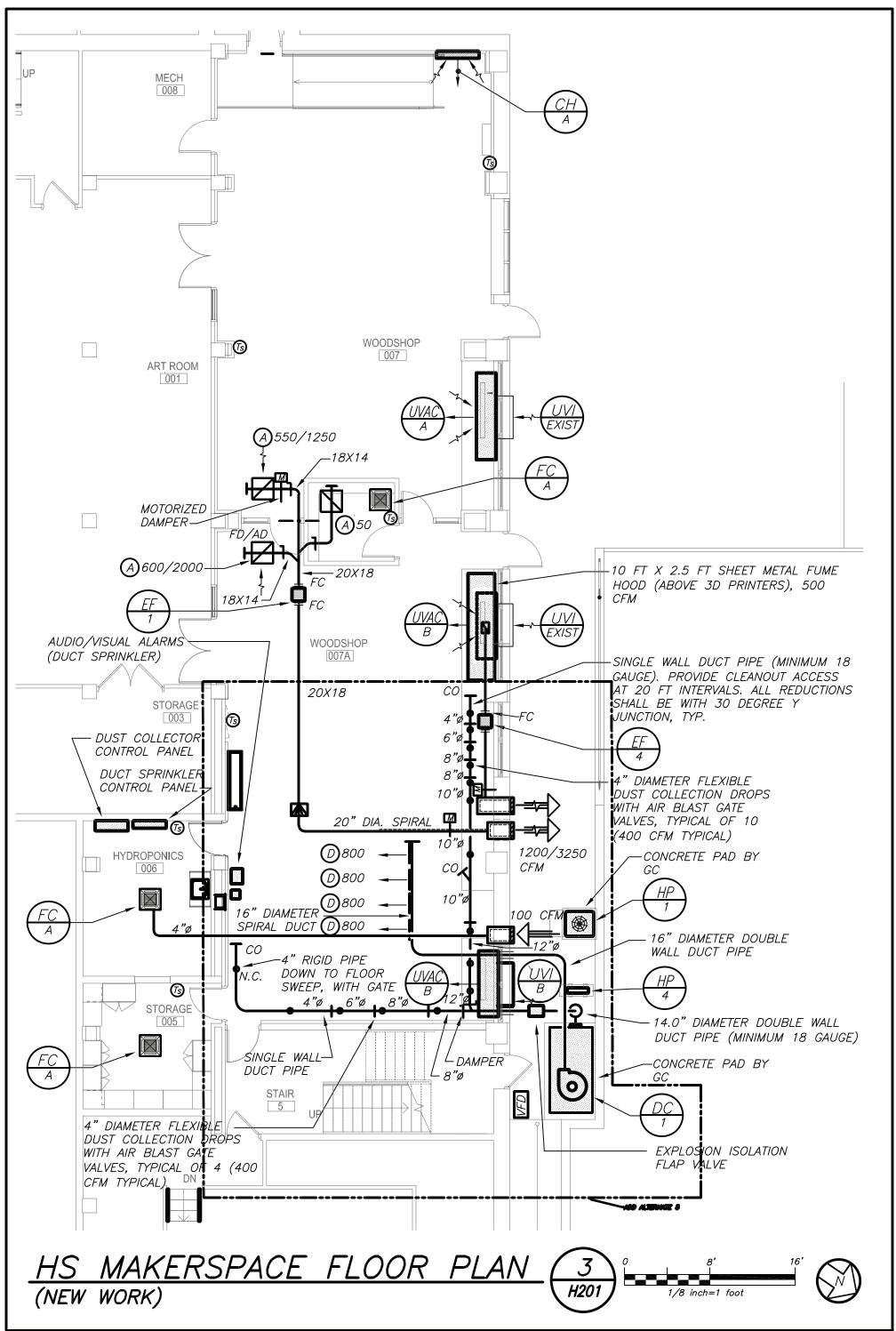
LEGEND, NOTES & PARTIAL FLOOR PLANS MAKERSPACE/PPS

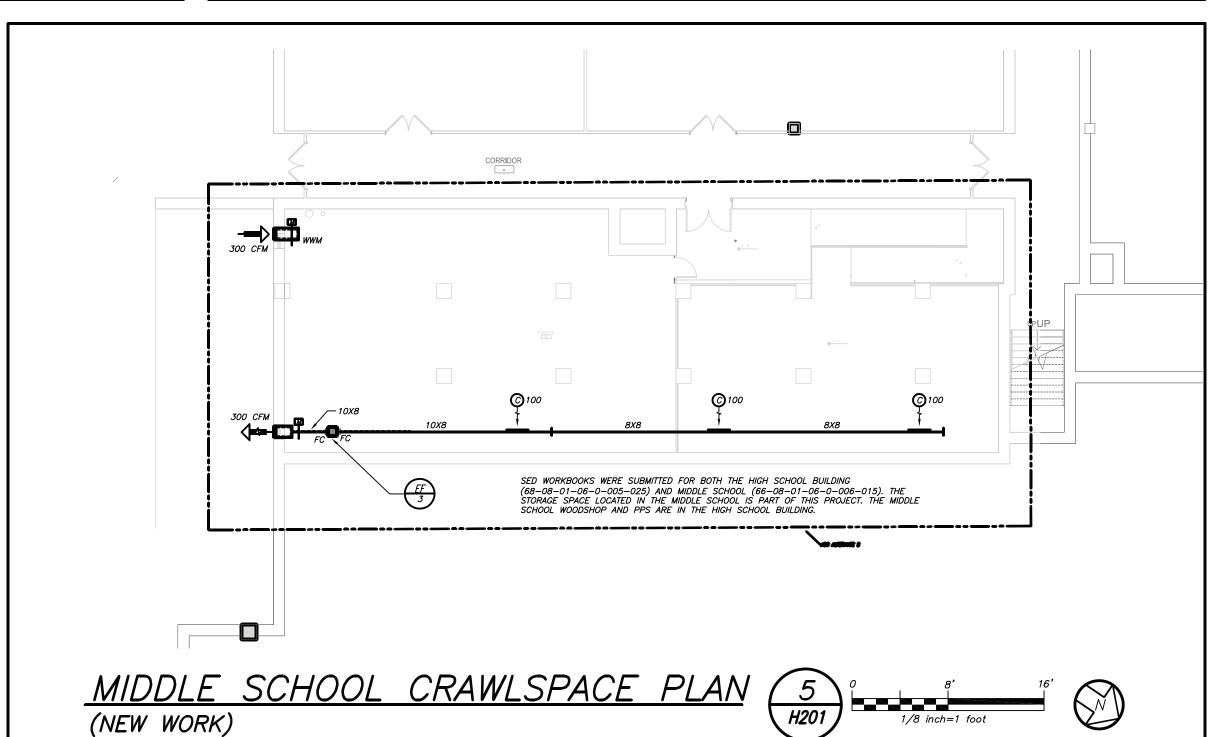
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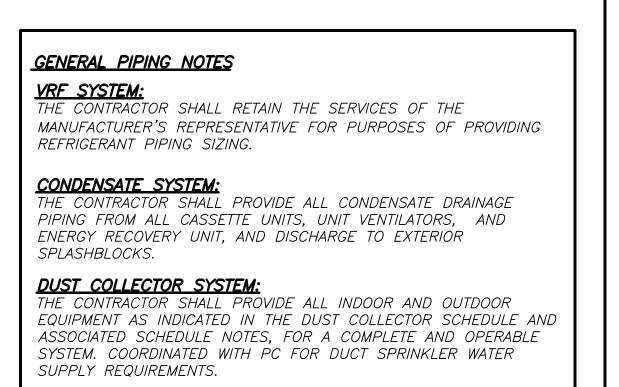
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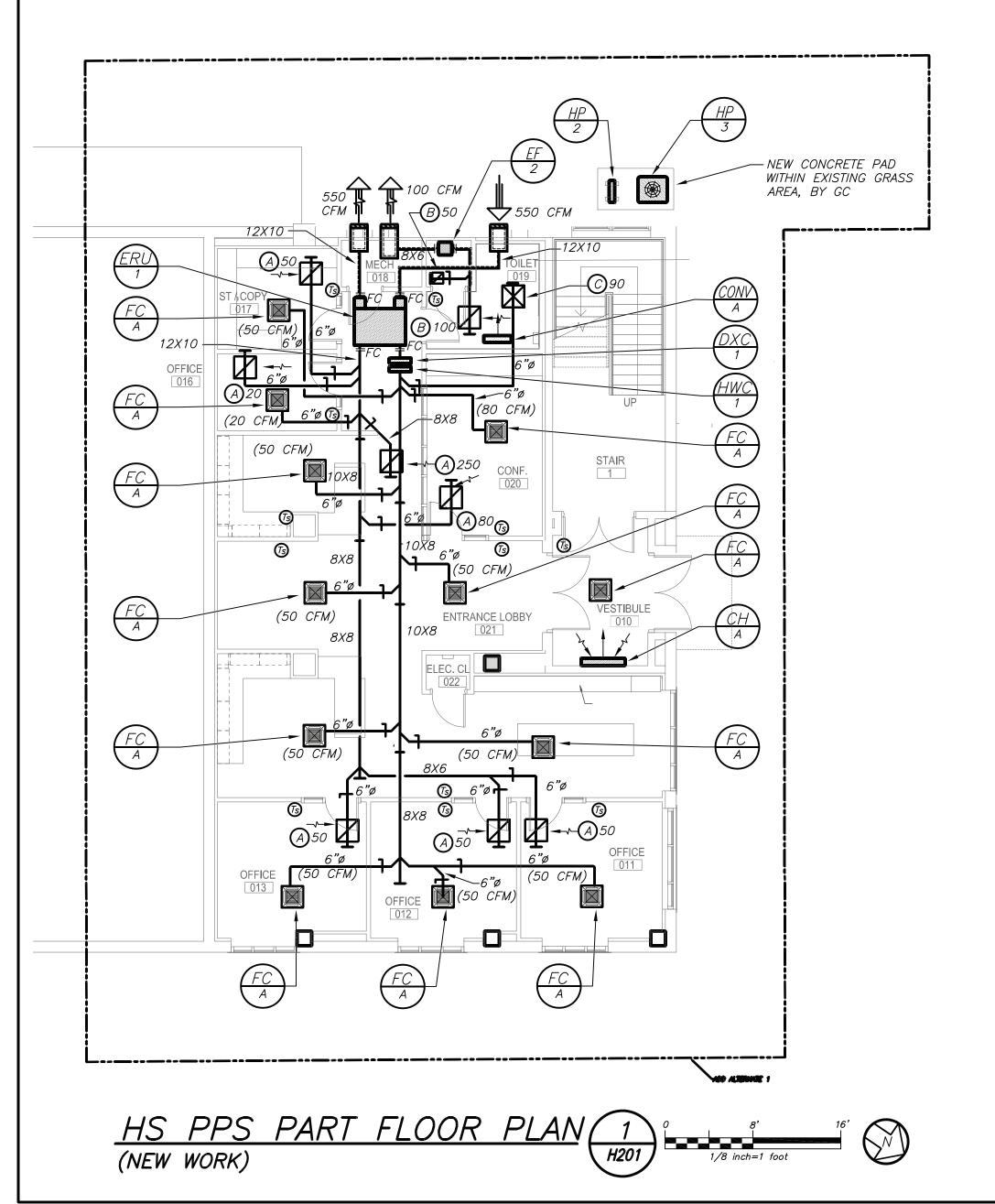
BEFORE FABRICATION THIS CONTRACTOR SHALL
VERIFY ALL MEASUREMENTS AND CONDITIONS ON
JOB AND COORDINATE HIS WORK WITH THE WORK
OF ALL OTHER CONTRACTORS

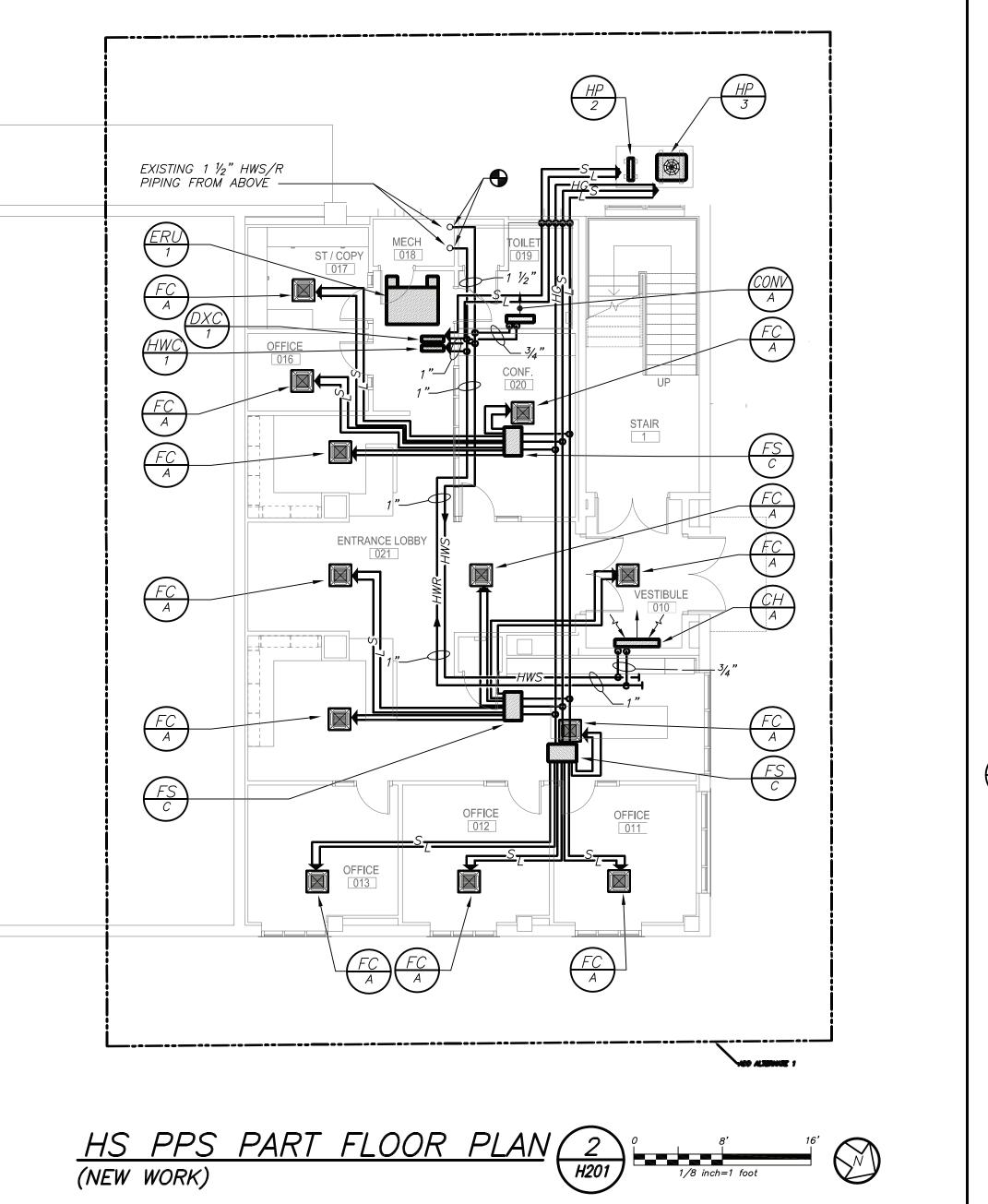












MOUNT PLEASANT CENTRAL SCHOOL DISTRICT

2022 CAPITAL BOND PROJECT PHASE 1

WESTLAKE MIDDLE / HIGH SCHOOL

M = M \ S I

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250 W 34TH ST., 4TH FLOOR NEW YORK, NY 10119

SED PROJECT NO. 66-08-01-06-0-005-025

FLOOR PLANS & NOTES MAKERSPACE,

H201

PPS

MEMASI PROJECT NO.

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BEFORE FABRICATION THIS CONTRACTOR SHALL
VERIFY ALL MEASUREMENTS AND CONDITIONS ON
JOB AND COORDINATE HIS WORK WITH THE WORK
OF ALL OTHER CONTRACTORS

		Α	В	С	D	E	F	G	Н	1	
ROOM NAME/NUMBER	OCCUPANCY CATEGORY	ROOM AREA (SQ.FT.)	PEOPLE DENSITY (#P/1000 SQ.FT.)	PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	NUMBER OF PEOPLE (A×B)÷1000= #P	OUTDOOR AIR FLOW RATE WITHOUT ZONE EFFECTIVENESS FACTOR (F×C)+(A×D)=CFM	ZONE AIR DISTRIBUTION EFFECTIVENE SS FACTOR	MINIMUM ROOM VENTILATION AIR FLOW RATE G÷H=CFM	MINIMUM EXHAUST AIR FLOW RATE A×E=CFM
	OCCUPIABLE STORAGE						ı				
Crawl Space	ROOMS FOR DRY MATERIALS	3100	2	5	0.06	o	7	221	0.8	276	0
007 Makerspace	WOOD/METAL SHOP	1100	20	10	0.18	0.5	22	418	0.8	523	550
007A Woodshop	WOOD/METAL SHOP	1155	20	10	0.18	0.5	24	448	0.8	560	578
007B Storage	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	50	2	5	0.06	0	1	8	0.8	10	0
Office Storage Rm	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	80	2	5	0.06	0	1	10	0.8	12	0
012 Admin	OFFICE SPACE	490	5	5	0.06	0	3	44	0.8	56	0
009A Conference	CONFERENCE/MEETING	180	50	5	0.06	0	9	56	0.8	70	0
009E Office	OFFICE SPACE	105	5	5	0.06	0	2	16	0.8	20	0
009D Copy	COPY, PRINTING ROOMS	95	О	О	0	0.5	0	0	0.8	0	48
009B Toilet											
009F Office	OFFICE SPACE	170	5	5	0.06	0	1	15	0.8	19	0
009G Office	OFFICE SPACE	170	5	5	0.06	0	1	15	0.8	19	0
009H Office	OFFICE SPACE	170	5	5	0.06	0	1	15	0.8	19	0
Entry Lobby/Waiting	LOBBIES/PREFUNCTION	290	30	7.5	0.06	0	5	55	0.8	69	0

ELECTRICAL SERVICE.

	SCHEDULE OF VRF DUCTLESS AIR SOURCE HEAT RECOVERY OUTDOOR UNITS													
	GENERA	L DATA	CAPACITY	PHYS	SICAL E	DATA		ELECTR	PICAL SUPF	PLY	EFFICIENCY			
MARK	SERVICE	MODEL ① No.	COOL/HEAT (MBH)	UNIT WEIGHT (POUNDS)	D	W	Н	SERVICE	MCA	MOP	EER	REMARKS		
HP 1	WOODSHOP UNIT VENTILATORS	ARUMO96BTE5	96 108	507	30	49	67	208/3/60	28.5	40	15.0	REFER TO 2345678		
HP 2	PPS ERU DUCT COIL	ARUN024GSS4	24 27	159	13	38	33	208/1/60	19.6	30	15.5	REFER TO 2345678		
HP 3	PPS CASSETTES	ARUMO72BTE5	72 81	430	30	<i>37</i>	67	208/3/60	22.6	<i>35</i>	15.0	REFER TO 2345678		
HP 4	WOODSHOP CASSETTES	ARUM036GSS5	36 42	294	13	38	54	208/1/60	23.5	40	15.5	REFER TO 2345678		

N (1) AS MANUFACTURED BY "LG." (KLIMA NEW YORK 914 255-4390)

BASED ON A.R.I. CERTIFIED COIL SELECTIONS; REFRIGERANT R-410A.

E3 INSTALL ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. (4) PROVIDE DC INVERTER COMPRESSOR SPEED CONTROL BASED ON SYSTEM LOAD.

(5) UNIT SHALL BE CONTROLLED VIA MANUFACTURER'S DDC NETWORK CONTROLLER TO INDOOR HARDWIRED CONTROLLER.

PROVIDE LOW AMBIENT CONTROL, HARD START, CRANKCASE HEATER, DISCONNECT SWITCH.
THE VRF SYSTEM SHALL BE. ABLE TO INTEGRATE WITH THE BUILDING MANAGEMENT SYSTEM VIA BACNET IP GATEWAY. THIS GATEWAY CONVERTS BETWEEN BACNET IP OR MODBUS TCP PROTOCOL. AND RS-485 LGAP (LG AIRCON PROTOCOL) ALLOWING THIRD PARTY CONTROL AND MONITORING OF THE LG A/C SYSTEM, OR LONWORKS GATEWAYS.

PROVIDE ELECTRONIC EXPANSION VALVE KIT AND AHU/ERU COMMUNICATION CONTROL KIT (ONE FOR EACH DX COIL PROVIDED). PROVIDE NEMA WEATHERPROOF ENCLOSURES FOR EEV KITS INSTALLED OUTDOORS. ALL UNITS MUST HAVE BACNET COMMUNICATIONS TIED INTO BMS SYSTEM CONTROLS. COMMUNICATION CONTROL KIT REQUIRES 208/1/60 POWER REQUIREMENTS. PROVIDE "PRVC2" OUTDOOR UNIT MULTI APPLICATION I/O

(8) INDICATED EQUIPMENT DESIGNATIONS ARE FOR USE IN CONSTRUCTION ONLY. CONTRACTOR SHALL COORDINATE WITH OWNER ON DESIRED FINAL TAG IDENTIFICATION/NUMBERING/LETTERING. OWNER APPROVED DESIGNATIONS SHALL BE USED IN BMS PROGRAMMING AND ON PERMANENT EQUIPMENT IDENTIFICATION TAGS. AS-BUILT DRAWINGS SHALL BE UPDATED WITH FINAL IDENTIFICATION TAG

	SCHEDULE OF EXHAUST FANS														
MARK	SERVICE	LOCATION	MODEL No. 🚺	TYPE	CFM	EXT. S.P. IN H ₂ O	RPM	HP (WATTS)	ELECTRIC V/PH/HZ	SIZE (IN)	WEIGHT (LBS.)	REMARKS			
EF 1	WOODSHOPS RELIEF AIR	WOODSHOP 007A	SQ-160VG	IN-LINE	1200/3250	0.5	1300	3/4	115/1/60	26Lx26Wx26H	160	REFER TO 24			
EF 2	PPS TOILET	PPS TOILET	CSP-A125	IN-LINE	150	0.25	980	(23)	115/1/60	13Lx10Wx9H	16	REFER TO 23			
EF 3	MIDDLE SCHOOL STORAGE VENTILATION	STORAGE	CSP-A510	IN-LINE	300	0.5	1070	(218)	115/1/60	18Lx14Wx14H	36	REFER TO 23			
EF 4	3D PRINTERS FUME EXHAUST HOOD	WOODSHOP 007A	CSP-A1300	IN-LINE	500	0.5	1300	(609)	115/1/60	24Lx14Wx14H	60	REFER TO 23			

(1) AS MANUFACTURED BY "GREENHECK".

NO., CFM, RPM, HP, AND ELECTRICAL SERVICE.

(2) INSTALL PER MANUFACTURER'S RECOMMENDATIONS. (3) PROVIDE VIBRATION ISOLATORS, BACKDRAFT DAMPER, SPEED CONTROL,

DISCONNECT SWITCH, AND NAMEPLATE IDENTIFYING FAN MARK, MODEL

(6) THE VRF SYSTEM SHALL BE ABLE TO INTEGRATE WITH THE BUILDING MANAGEMENT

MONITORING OF THE LG A/C SYSTEM, OR LONWORKS GATEWAYS.

SYSTEM VIA BACNET IP GATETWAY. THIS GATEWAY CONVERTS BETWEEN BACNET IP OR MODBUS TCP

PROTOCOL, AND RS-485 LGAP (LG AIRCON PROTOCOL) ALLOWING THIRD PARTY CONTROL AND

(4) PROVIDE VIBRATION ISOLATORS, BACKDRAFT DAMPER, VARI-GREEN SPEED CONTROL FOR 2-SPEED OPERATION, DISCONNECT SWITCH, AND NAMEPLATE IDENTIFYING FAN MARK, MODEL NO., CFM, RPM, HP, AND

	SCHEDULE OF UNIT VENTILATORS														
MARK	MODEL No. ①	CFM	MIN. O.A. CFM	HEATING CAPACITY MBH	DATA © ROWS	TOTAL	S DATA SENSIBLE CAPACITY MBH	FILTER TYPE	MOTOR H.P.	ELEC. SERV.	MOTOR FLA	MOTOR MCA	MOTOR MOCP	PHYSICAL DATA DIMENSION / WEIGHT	REMARKS
(IVAC) A	MAUV1250	1250	600	95	5	48	35.5	THROWAWAY	1/2	208/1/60	3.3	4.1	15	86"Lx17"Dx30"H/570LBS	REFER TO 4567
(JVAC) B	MAUV1000	1000	300	66	4	32	23.7	THROWAWAY	1/3	208/1/60	2.6	3.2	15	74"Lx17"Dx30"H/460LBS	REFER TO 4567

1 AS MANUFACTURED BY "MAGICAIRE". (2) BASED ON ENTERING/LEAVING WATER TEMPERATURES HW 180/160°. $\begin{tabular}{lll} \begin{tabular}{lll} \begin{$

4 INSTALL PER MANUFACTURER'S RECOMMENDATIONS

(5) COORDINATE HVAC EQUIPMENT FAN SHUT DOWN BY FIRE ALARM PANEL WITH ELECTRICAL CONTRACTOR.

(6) UNIT SHALL INCLUDE HW HEATING COIL, DX VRF TYPE DX COOLING COIL, INSULATED VALVE PACKAGE, WALL SLEEVE, EXTERIOR LOUVER (MODEL AEL-268-267-L, VERTICAL BLADES, FLANGED FRAME, LATTICE FACE) WITH BIRD SCREEN, DISCHARGE GRILLE WITH SCREEN, INSULATED OUTSIDE AIR DAMPER, FACE AND BYPASS DAMPER, ECM HIGH STATIC VARIABLE SPEED MOTOR, PIPE FALSE BACK, 2" MERV 13 FILTERS, DDC CONTROL PACKAGE, BACNet CONTROLLER. LH AND RH CONNECTIONS TO BE COORDINATED IN FIELD.

 \nearrow Provide EEV KIT AND COMMUNICATION KIT FOR D/X COIL OPERATION WITH LG VRF SYSTEM.

SCHEDULE OF VRF DUCTLESS HEAT RECOVERY INDOOR UNITS INDOOR AIR HANDLER INFORMATION SUPPLY FAN DATA COOLING COIL DATA (3) | HEATING GENERAL DATA REMARKS No. 🕧 REFER TO 23456 CEILING 9,600 ARNU093TRD4 0.20 208/1/60

N (1) AS MANUFACTURED BY "LG." (KLIMA NEW YORK 914 255-4390) O (2) INSTALL PER MANUFACTURER'S RECOMMENDATIONS. (3) BASED ON A.R.I. CERTIFIED COIL SELECTIONS; REFRIGERANT R-410A.

4 PROVIDE FACTORY MOUNTED INTEGRAL CONDENSATE PUMP, CHECK VALVE, ANTI SWEAT SLEEVE AND AUTO SHUTDOWN OVERFLOW SWITCH.

5 PROVIDE MOUNTING HARDWARE, VIBRATION ISOLATORS, DISCONNECT, AND HARDWIRED REMOTE WALL MOUNTED THIRD PARTY CONTROLLER/THERMOSTAT.

	SCHEDULE OF CABINET HEATERS MODEL CAPACITY DATA MOTOR FLECTRIC SELECTRIC													
MARK	TYPE UNIT	MODEL N º ⊙	CAF MBH	CFM	DATA GPM	PD.FT.	MOTOR WATTS		ELECTRIC SERVICE	REMARKS				
$\frac{CH}{A}$	WALL	W 1070 03	22.7	335	2.0	0.26	1/15	1050	120/1/60	2345				
\ \ C	`													

N (1) AS MANUFACTURED BY "STERLING". (2) INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

(3) CAPACITIES BASED ON LOW SPEED FAN SETTING, AND 170 A.W.T. PROVIDE 2 ROW COIL, THROWAWAY FILTERS, INTEGRAL SPEED CONTROL, DISCONNECT SWITCH, REMOTE WALL SENSOR CONNECTED TO BMS, GASKET AND PERMA LAP FRAME. COORDINATE FINISH AND COLOR WITH

(5) UNIT DIMENSIONS 36"x25"x9.5", WEIGHT 150 LBS.

6 PROVIDE WITH HOT WATER RETURN AQUASTAT. AQUASTAT SHALL NOT ALLOW FAN TO OPERATE AT WATER TEMPERATURE BELOW 98 DEGREES F.

	SCHEDULE OF REGISTERS AND DIFFUSERS													
MARK	TYPE	SERVICE	MODEL No. 🕦	DIRECTION DISCHARGE	DAMPER TYPE	FINISH	TYPE	REMARKS						
A	CEILING REGISTER	RETURN	535	-	OPPOSED BLADE	PER ARCH.	LAY IN	REFER TO 2346						
B	CEILING REGISTER	EXHAUST	635	_			LAY IN	REFER TO 2356						
0	CEILING DIFFUSER	SUPPLY	SCD	4-WAY			LAY IN	REFER TO 2346						
(D)	DUCT REGISTER	SUPPLY	96	DOUBLE DEFLECTION	V	V	SURFACE MOUNT	REFER TO 2346						

N (1) AS MANUFACTURED BY "PRICE". (2) INSTALL PER MANUFACTURER'S RECOMMENDATIONS. 3 PROVIDE MOUNTING FRAME COMPATIBLE W/ MOUNTING SURFACE. COORDINATE ALL BORDER TYPES, COLORS, FINISHES AND DIMENSIONS WITH ARCHITECT.

4) STEEL CONSTRUCTION. 5 ALUMINUM CONSTRUCTION. 6 RETURN NECK SIZE PER CFM RANGE (NOT TO EXCEED 675 fpm)

	SCHEDULE OF ENERGY RECOVERY UNITS																						
GENERAL DATA SUPPLY FAN DATA RETURN-EXH. FAN DATA ELECTRICAL DATA HEAT EXCHANGER HOT WATER HEATING COIL DATA FILTER PHYSICAL DATA																							
MARK	SERVICE	LOCATION	OAI	MODEL () No.	CFM	MOTOR HP	E.S.P. IN WG	CFM	MOTOR HP	E.S.P. IN WG	MCA	MOP	ELECTRICAL SERVICE	MODEL	THERMAL EFFICIENCY (%)	MARK	CAPACITY TOTAL MBH	E.A.T. *F L.	.A.T. *F	GPM	TYPE	LxHxW(in.)/WEIGHT(lbs)	REMARKS
ERU 1	PPS RENOVATION	PPS CEILING	640	U-ERV-600	640	-	1.0	550	-	0.75	8.3	15	208/1/60	HEAT WHEEL	75	HWC 1	_	-	-	_	2" MERV 13	57x12x69/96	REFER TO 23456

N (1) AS MANUFACTURED BY "ENERGYWALL" (KLIMA NEW YORK 914 255-4390) PROVIDE UNIT WITH MERV 13 FILTERS, DX VRF COOLING/HEATING COIL WITH DRAIN PAN, ECM MOTORS, 100% ECONOMIZER, DRY CONTACTS FOR DIRTY FILTER INDICATOR, FROST (2) INSTALL PER MANUFACTURER'S RECOMMENDATIONS. DUCT MOUNTED COIL BASED ON ENTERING/LEAVING WATER TEMPERATURES HW 180/160: (5) PROVIDE EEV KIT AND COMMUNICATION KIT FOR D/X COIL OPERATION WITH LG VRF SYSTEM.

CONTROL, PHASE PROTECTION, DISCONNECT SWITCH, AND MOTORIZED DAMPERS FOR OA, EA.

6 INDICATED EQUIPMENT DESIGNATIONS ARE FOR USE IN CONSTRUCTION ONLY. CONTRACTOR SHALL COORDINATE WITH OWNER ON DESIRED FINAL TAG IDENTIFICATION/NUMBERING/LETTERING. OWNER APPROVED DESIGNATIONS SHALL BE USED IN BMS PROGRAMMING AND ON PÉRMANENT EQUIPMENT IDENTIFICATION TAGS. AS-BUILT DRAWINGS SHALL BE UPDATED WITH FINAL IDENTIFICATION TAG

SO	CHEL	DULE (DF_	DU	CT	MC	DUNT	ED H	OT V	VATE	R H	IEATING COILS	
MARK	SERVICE	HTG. CAPACITY BTU/HR	E.A.T. (° F)	L.A.T. (°F)	E.W.T. (° F)	L.W.T. (°F)	GPM	CFM	COIL FACE AREA SQ.FT.	COIL FACE VELOC.FPM	ROWS	REMARKS	
HWC 1	ERU 1	55,300	10	90	180	160	4.8	640	_	500	_	0234560	
N (N (1) AS MANUFACTURED BY "NATIONWIDE COILS INC."												

AS MANUFACTURED BY "NATIONWIDE COILS INC." (2) AIR PRESSURE DROP ACROSS COIL SHALL NOT EXCEED 0.30" S.P. (3) Install per manufacturer's recommendations. $\mathsf{S}\left(4
ight)$ coil shall be minimum 2 rows with minimum of 8 fins per inch. (5) 5/8" TUBE AND ALUMINUM FINS.

(6) GALVANIZED PITCHED CASING. (7) THE WATER COIL IS SIZED TO HANDLE OUTDOOR AIR QUANTITIES AT 100 PERCENT (WITH ENERGY RECOVERY UNIT IN OPERATION) OF OCCUPANCY WITHOUT HAVING TO RESORT TO CLOSING OUTDOOR AIR INTAKE DAMPERS ON A "DESIGN HEATING DAY" TO PREVENT FREEZE-UP.

SCHEDULE OF VRF FLOW SELECTOR UNITS												
MARK	MODEL No. 🕥		ITY DAT PORTS	A (BTU/HR) EACH PORT	MCA	ELECTRIC SERVICE		DATA WEIGHT (LBS)	REMARKS			
FS A	PRHR023A	120,000	2	60,000	0.17	208/1/60	19X19X9	35	REFER TO 234			
FS B	PRHR033A	180,000	3	60,000	0.17	208/1/60	19X19X9	38	REFER TO 234			
<u>()</u>	PRHR043A	230,000	4	60,000	0.17	208/1/60	19X19X9	40	REFER 10 234			

N (1) AS MANUFACTURED BY "LG." (KLIMA NEW YORK 914 255-4390) (2) INSTALL PER MANUFACTURER'S RECOMMENDATIONS. (3) REFRIGERANT R-410A. 4 PROVIDE MOUNTING HARDWARE. MOUNT UNIT HORIZONTALLY.

	SCHEDULE OF DUCT MOUNTED D/X COILS													
MARK	SERVICE	CLG. CAPACITY BTU/HR	HTG. CAPACITY BTU/HR	E.A.T. (° F)	L.A.T. (°F)	CFM	COIL FACE AREA SQ.FT.	COIL FACE VELOC.FPM	ROWS	REMARKS				
Oxc 1	ERU 1	22,600	27,000	90	58	640	_	400	-	REFER TO (10)				

N (1) AS MANUFACTURED BY "NATIONWIDE COILS INC." $Q \stackrel{\frown}{(2)}$ INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

(3) BASED ON A.R.I. CERTIFIED COIL SELECTIONS. REFRIGERANT R-410. S $\mathsf{(4)}$ provide duct mounted cased DX cooling/heating coil section supported from STRUCTURE ABOVE, MOUNTING HARDWARE, ACCESS DOORS ON BOTH SIDES OF COIL, ASSOCIATED PIPING, CONTROLS AND APPURTENANCES.

(5) PROVIDE EEV KIT AND COMMUNICATION KIT FOR D/X COIL OPERATION WITH LG VRF SYSTEM. KITS SHALL BE FIELD INSTALLED. AHU KIT REQUIRES 208/1/60 POWER.

	SCHEDULE OF DUST COLLECTOR												
MARK	SERVICE	LOCATION	MODEL No. 🛈	TYPE	CFM	EXT. S.P. IN H ₂ O		HP	ELECTRIC V/PH/HZ	SIZE (IN)	WEIGHT (LBS.)	REMARKS	
DC 1	WOODSHOP	EXTERIOR	NFPZ3000-2LE	BAG FILTER	3200	2.3	1800	10.0	208/3/60	44Lx94Wx168H	3000	REFER TO 23	

(1) AS MANUFACTURED BY "NEDERMAN LLC CONFIGURED SOLUTIONS". (704 999-0774) (2) INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

PROVIDE CONTROL PANEL, VFD SPEED CONTROL, INVERTER DUTY MOTOR, DISCONNECT SWITCH, 16 GAUGE WELDED STEEL SEPARATOR, DISCHARGE AIR SILENCER, ANGLE IRON FRAME STAND, STEEL DUST BINS, HIGH EFFICIENCY POLYESTER BAG FILTERS 99.9% EFFICIENT, ENAMEL COAT FINISH, WEATHER RESISTANT CONSTRUCTION, NFPA COMPLIANT, EXPLOSION ISOLATION FLAP DAMPER, BAG SHAKER MECHANISM, EXPLOSION DOORS, FAN SILENCER, VFD, UNIT CATWLK/GANGWAY, LADDER, SPRINKLER PIPE. DUCT SPARK DETECTION SYSTEM INCLUDES CONTROL PANEL, ALARM HORN/STROBE LIGHT, DUCT SPARK DETECTORS, DUCT SPARK DETECTORS INSTALLATION KIT, EXTINGUISHING SETS (FURNISH TO PC FOR INSTALLATION IN WATER SUPPLY), DUCT EXTINGUISHING CONTROL

PANEL, ZONE CONTROL UNITS, ZONE CONTROL UNIT WIRING,BASES, ZONE CONTROL UNIT MOUNTING BRACKETS, CABLE FOR SOLENOID VALVES AND FLOW MONITORS, CABLE FOR SPARK DETECTORS AND TEST LIGHTS, AN SYSTEM COMMISSIONING. PROVIDE SYSTEM COMMISSIONING. NAMEPLATE IDENTIFYING FAN MARK, MODEL NO., CFM, RPM, HP, AND ELECTRICAL SERVICE.

MEMASI PROJECT NO.

SCHEDULES

66-08-01-06-0-005-025

MOUNT PLEASANT

CENTRAL SCHOOL

2022 CAPITAL BOND PROJECT

WESTLAKE MIDDLE / HIGH

DISTRICT

PHASE 1

SCHOOL

WHITE PLAINS, NY 10601

SITE - CIVIL CONSULTANT

STRUCTURAL CONSULTANT

1000 PARK BLVD., SUITE 209 MASSAPEQUA PARK, NY 11762

PLEASANTVILLE, NY 10570

SECURITY CONSULTANT

HAZARDOUS MATERIALS CONSULTANT

992 BEDFORD STREET BRIDGEWATER, MA 02324

ONE PENN PLAZA

NEW YORK, NY 10119

250 W 34TH ST., 4TH FLOOR

WSP

REILLY TARANTINO ENGINEERING

BARILE GALLAGHER & ASSOCIATES

BUILDING TECHNOLOGY CONSULTING

THE LA GROUP

179 GRAHAM ROAD

MEP CONSULTANT

39 MARBLE AVE.

ITHACA, NY 14850

MEMASIDESIGN.COM

914.915.9519

ADD ALTERNATE 5

DBE: TAB: Layout1 - Y:\MT PLEASANT CSD\Mt. Pleasant CSD - MS -Maker Space Renovation (2235.00)\Drawings\HVAC\XF223500-H301 MECHANICAL.dwg - DATE: Sep 20, 2023 - 3:42pm

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK

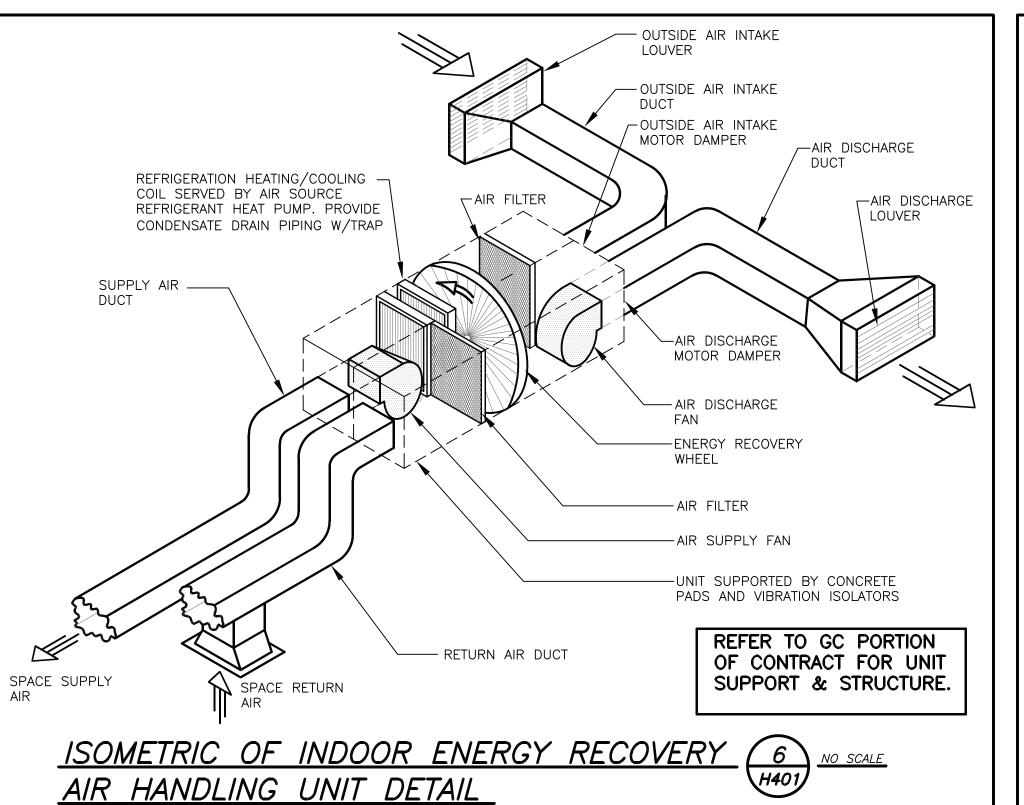
OF ALL OTHER CONTRACTORS

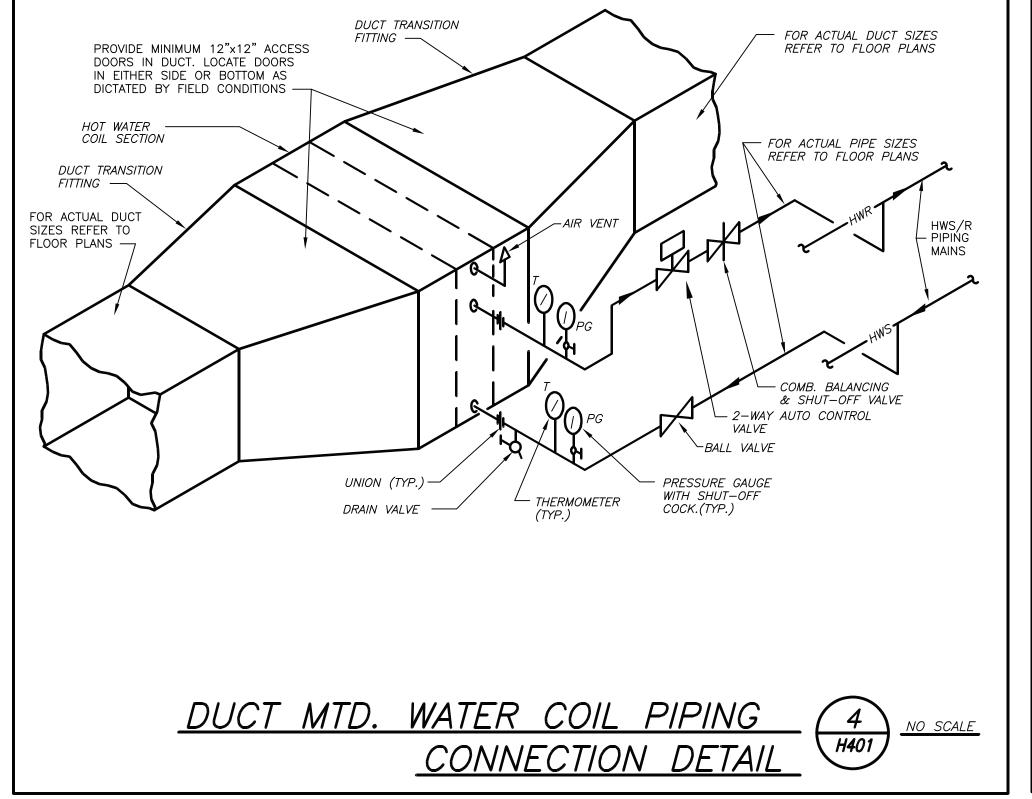
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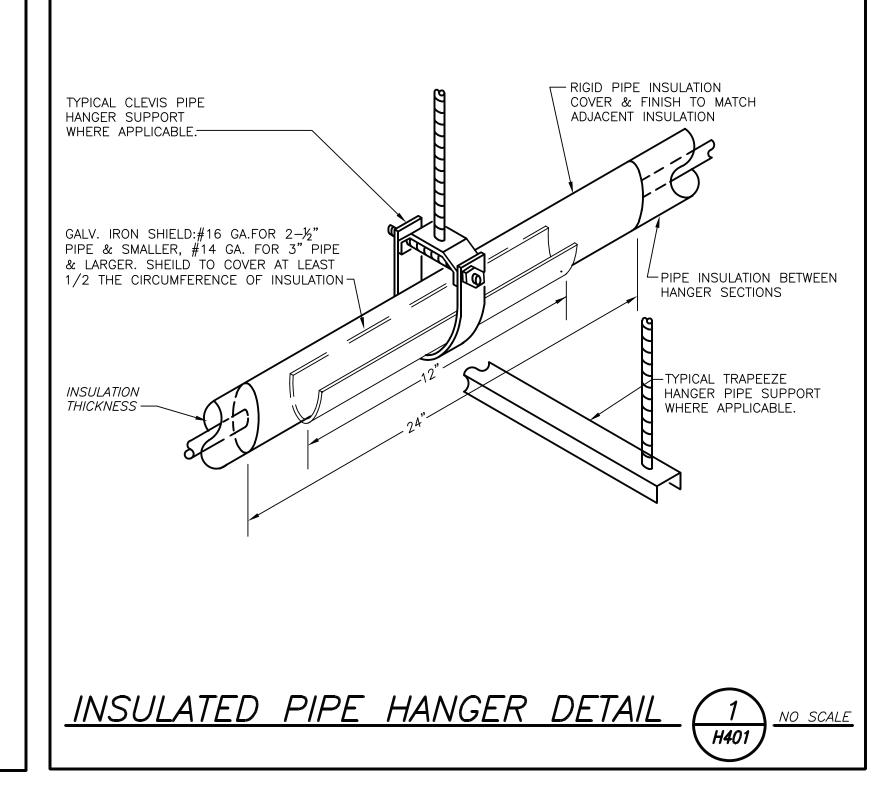
SED PROJECT NO.

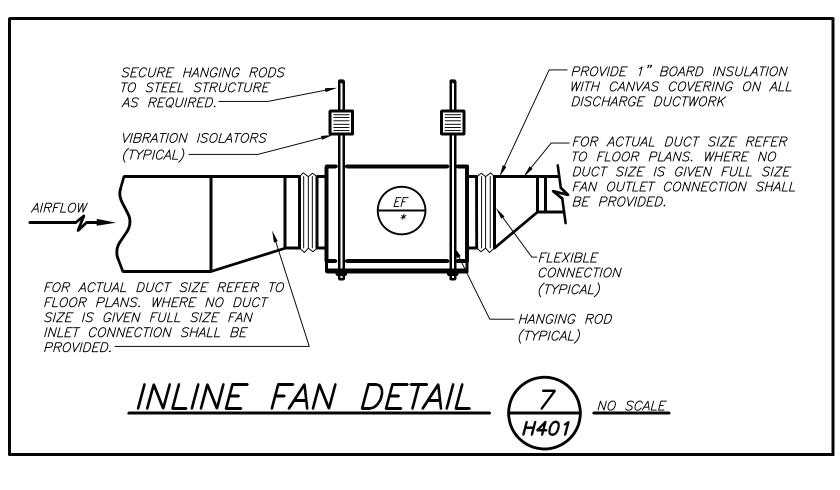
KEY PLAN

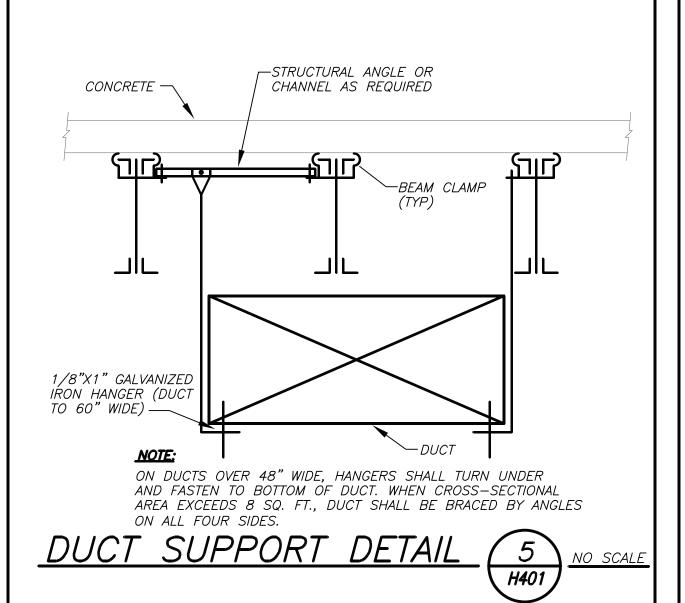
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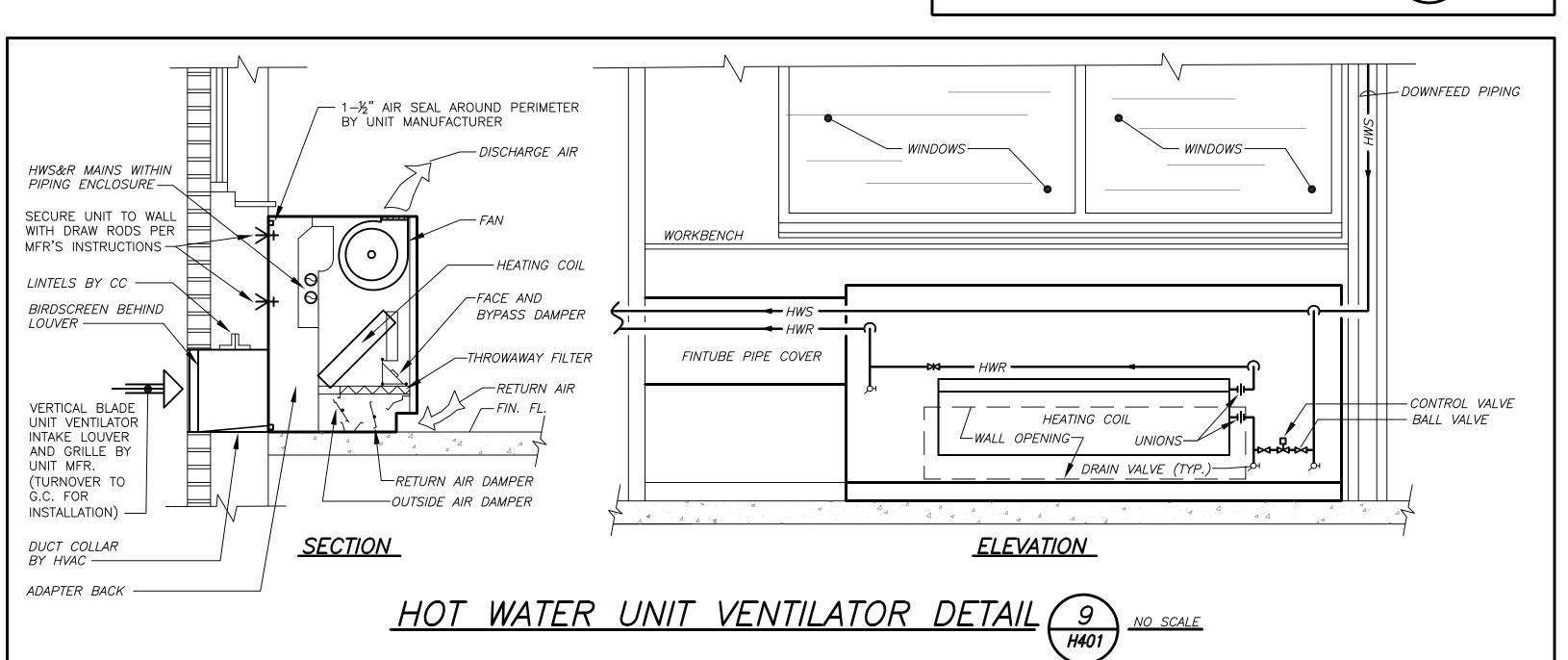


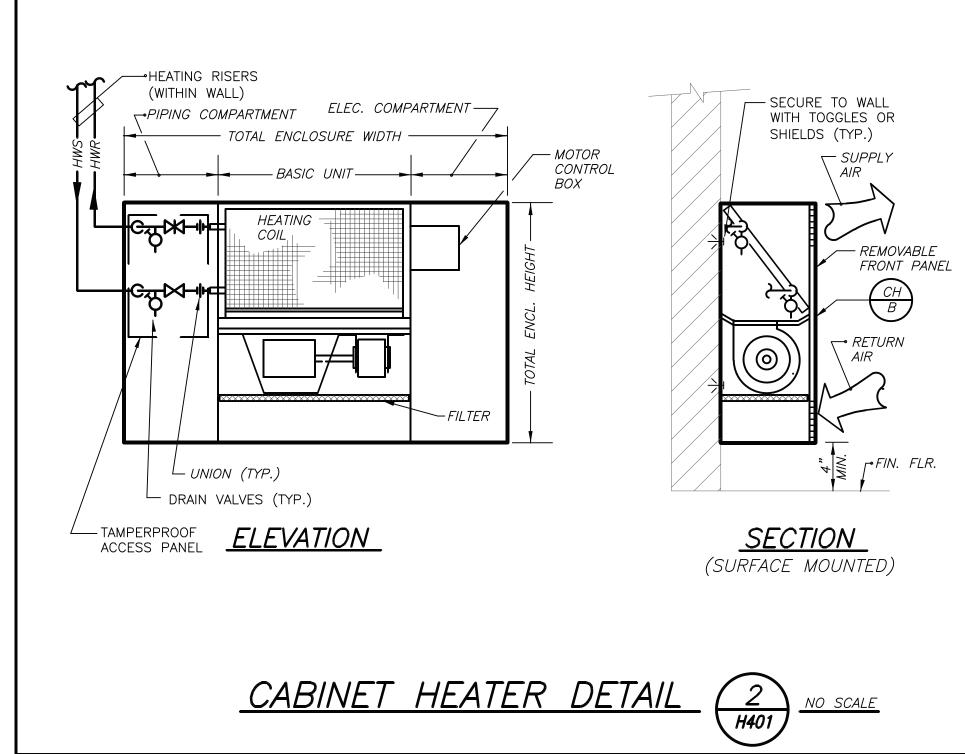


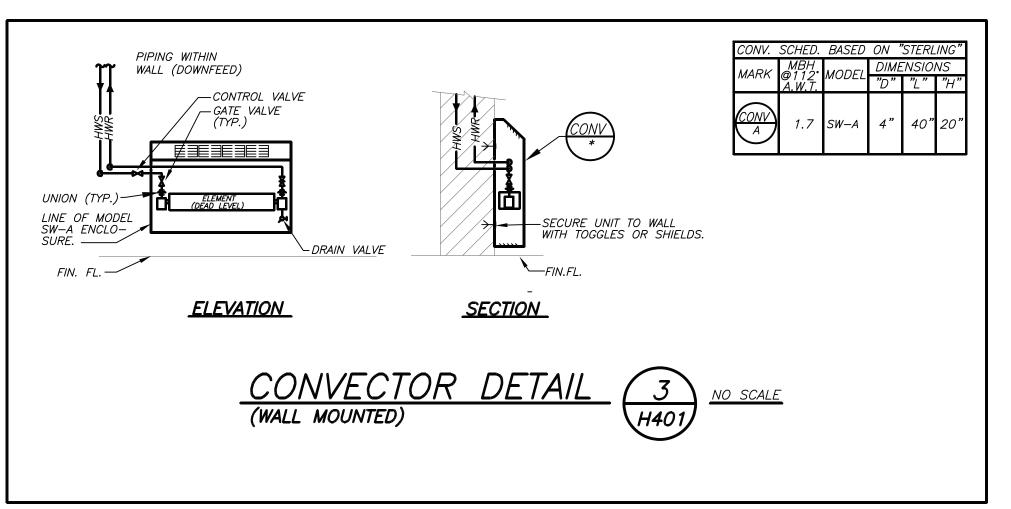


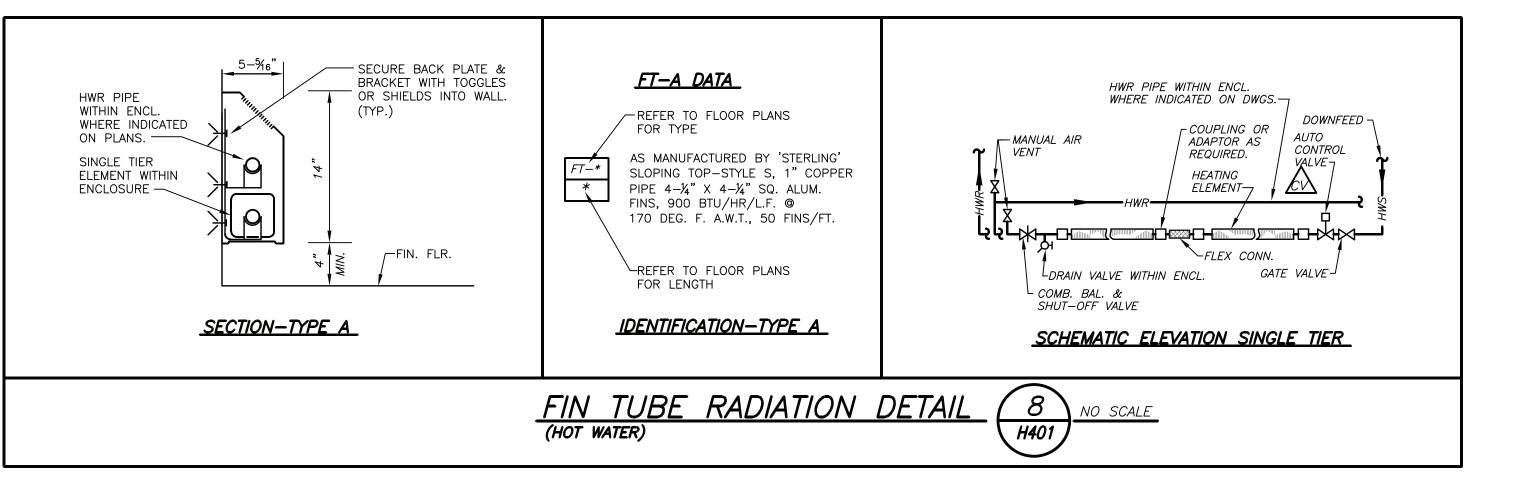












MOUNT PLEASANT CENTRAL SCHOOL DISTRICT

2022 CAPITAL BOND PROJECT PHASE 1

WESTLAKE MIDDLE / HIGH SCHOOL

 $M \equiv M \wedge SI$ 2 LYON PLACE

914.915.9519 MEMASIDESIGN.COM SITE - CIVIL CONSULTANT

THE LA GROUP

179 GRAHAM ROAD

WHITE PLAINS, NY 10601

ITHACA, NY 14850 STRUCTURAL CONSULTANT REILLY TARANTINO ENGINEERING

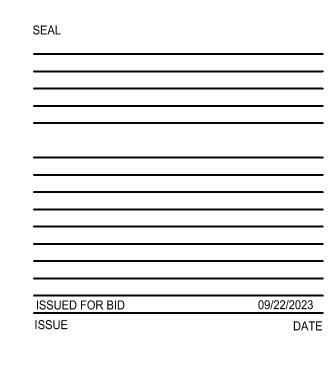
1000 PARK BLVD., SUITE 209 MASSAPEQUA PARK, NY 11762 MEP CONSULTANT

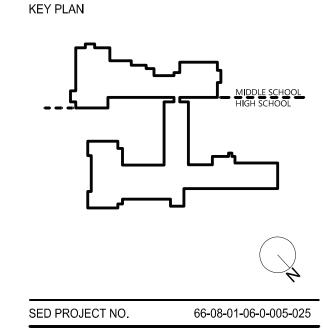
BARILE GALLAGHER & ASSOCIATES 39 MARBLE AVE. PLEASANTVILLE, NY 10570

SECURITY CONSULTANT BUILDING TECHNOLOGY CONSULTING 992 BEDFORD STREET BRIDGEWATER, MA 02324

HAZARDOUS MATERIALS CONSULTANT ONE PENN PLAZA 250 W 34TH ST., 4TH FLOOR

NEW YORK, NY 10119





MEMASI PROJECT NO.

DETAILS

H401

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS