

LITTLE VALLEY COUNTY CENTER

303 COURT STREET LITTLE VALLEY, NEW YORK 14755

DPW BID #56 - LITTLE VALLEY CIVIL DEFENSE

AHU IMPROVEMENTS

BID DOCUMENTS SEPTEMBER 19, 2018



Centerpointe Corporate Park 375 Essjay Road, Suite 200 Williamsville, NY 14221 www.wendelcompanies.com p:716.688.0766 f:716.625.6825

Wendel Project No. 307659



CENTER - CIVIL DEFENSE AIR HANDLING UNIT IMPROVEMENTS

BID DOCUMENTS





COVERSHEET

MECHANICAL/ ELECTRICAL

ME001 MECHANICAL SYMBOLS, NOTES, AND ABBREVIATIONS
ME101 PARTIAL GROUND FLOOR DUCTWORK AND PIPING PLANS
ME201 MECHANICAL DETAILS AND SCHEDULES





HVAC ABBREVIATIONS AAV AUTOMATIC AIR VENT HUMIDIFIER AC AIR COMPRESSOR **HEATING COIL** HC AIR COOLED CONDENSING UNIT HEX HEAT EXCHANGER ACS DR ACCESS DOOR HP HORSEPOWER ACS PNL ACCESS PANEL HEAT RECOVERY UNIT HRU ACV AUTOMATIC CONTROL VALVE HSTAT HUMIDISTAT ABOVE FINISHED FLOOR HEATING AND VENTILATING UNIT HV ABOVE FINISHED GRADE HWB HOT WATER BOILER HOT WATER CIRCULATING PUMP AHU HWCP AIR HANDLING UNIT ALUM ALUMINUM AS LEAVING AIR TEMPERATURE AIR SEPARATOR 12"Ø ASC ABOVE SUSPENDED CEILING LRI LOUVERED ROOF INTAKE AVG AVERAGE LRV LOUVERED ROOF VENT LEAVING WATER TEMPERATURE LWT BAV BALANCING VALVE **BASEBOARD - ELECTRIC** BB-E

BACKFLOW PREVENTER

BOILER FEED WATER PUMP

CONCRETE EQUIPMENT BASE

CONDENSATE RETURN PUMP

DUCT COVERING INSULATION

ENTERING AIR TEMPERATURE

ELECTRICAL CONTRACTOR

DEGREES FAHRENHEIT

FURNISHED BY OTHERS

FROM FLOOR ABOVE

FROM FLOOR BELOW

FIRE/SMOKE DAMPER

FINNED TUBE RADIATOR

GENERAL CONTRACTOR

GAS VENT THROUGH ROOF

GALLONS PER MINUTE

DUCT LINING INSULATION

DIRECT EXPANSION

EXHAUST AIR

EXPANSION TANK

FAN COIL UNIT

FIRE DAMPER

GLOBE VALVE

GATE VALVE

FURNACE

CUBIC FEET PER MINUTE

CAST IRON RADIATOR

CABINET UNIT HEATER

BUTTERFLY VALVE

COMPRESSED AIR

COMBUSTION AIR

CHECK VALVE

COOLING TOWER

CONTROL VALVE

DRY BULB

COMMON

BALL VALVE

BRAKE HORSEPOWER

BFWP

BHP

CA

CA

CEB

CHKV

CHWP

COM

CRP

CT

CUH

CUV

CV

DCI

DLI

DSS

DX

EΑ

ET

FBO

FCU

FFB

FID

FSD

FTR

GLV

GPM

FURN

CIR

MAKE-UP AIR UNIT MAV MANUAL AIR VENT MECHANICAL CONTRACTOR NC NORMALLY CLOSED NIC NOT IN CONTRACT NO NORMALLY OPEN NOT TO SCALE NTS OUTSIDE AIR ON CENTER CHILLED WATER CIRCULATING PUMP OPEN ENDED DUCT OED PLUMBING CONTRACTOR PLV PLUG VALVE PRV PRESSURE REDUCING VALVE PTAC PACKAGE TERMINAL AIR CONDITIONER CLASSROOM UNIT VENTILATOR RETURN AIR RETURN AIR FAN RELATIVE HUMIDITY REHEAT COIL REFRIGERANT LIQUID LINE RSL REFRIGERANT SUCTION LINE DUCTLESS SPLIT SYSTEM AIR CONDITIONER RTU **ROOF TOP UNIT ROOF VENT** SUPPLY AIR SMOKE DAMPER **EQUIVALENT DIRECT RADIATION** SUPPLY FAN STATIC PRESSURE STN STRAINER ENTERING WATER TEMPERATURE SUSPENDED UNIT HEATER TFA TO FLOOR ABOVE TFB TO FLOOR BELOW

VAV

VD

WB

WIV

VIB ISO

WCHRU

UNIT HEATER

WET BULB

UNIT VENTILATOR

VOLUME DAMPER

WATER COLUMN

WATER INLET VALVE

VARIABLE AIR VOLUME

VIBRATION ISOLATOR

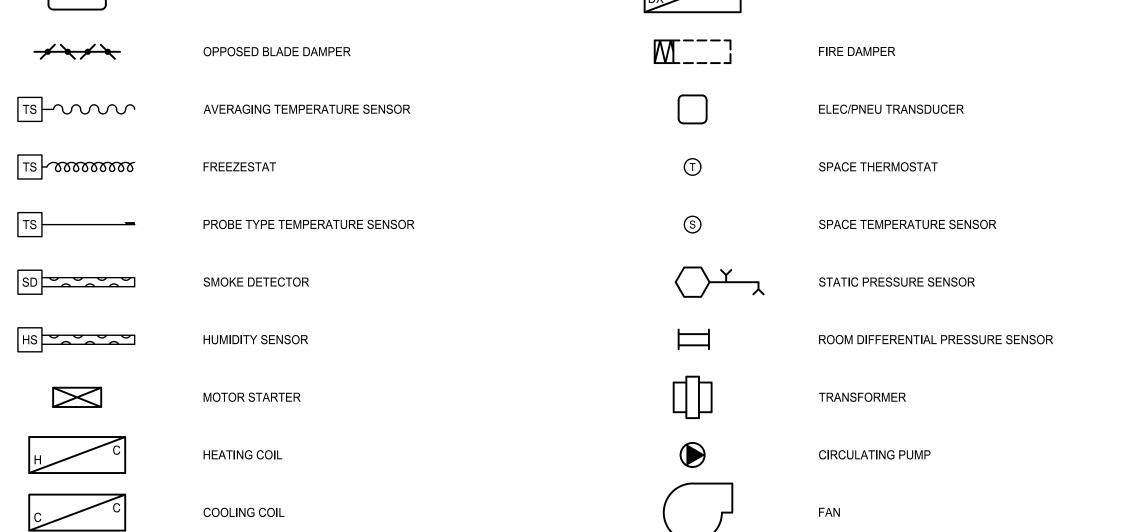
WATER CHILLER

WATER PRESSURE DROP

GENERAL NOTES

- 1. THIS LEGEND SHEET IS FOR THE HVAC CONTRACTOR REFERENCE ONLY. NOT ALL SYMBOLS AND/OR ABBREVIATIONS MAY APPLY TO THIS PARTICULAR PROJECT. ANY ADDITIONS OR OMISSIONS FROM THIS LEGEND SHEET DOES NOT IMPLY INCLUSION AND/OR EXCLUSION OF ANY PARTICULAR ITEM FROM THE PROJECT.
- 2. THE PLANS ARE DIAGRAMMATIC AND INDICATE ONLY THE SIZE AND GENERAL ARRANGEMENT OF PIPING AND EQUIPMENT. EXACT LOCATION OF ALL ELEMENTS SHALL BE DETERMINED AS WORK PROGRESSES, IN COOPERATION AND COORDINATION WITH THE WORK OF ALL OTHER TRADES. IT IS NOT INTENDED TO SHOW EVERY ITEM OF WORK OR MINOR PIECE OF EQUIPMENT, BUT THE CONTRACTOR SHALL FURNISH AND INSTALL WITHOUT ADDITIONAL REMUNERATION ANY COMPONENT NECESSARY TO COMPLETE THE SYSTEM IN ACCORDANCE WITH THE BEST PRACTICE OF THE TRADE.
- 3. ITEMS OF WORK OR EQUIPMENT SHOWN ON THE DRAWINGS ONLY, OR CALLED FOR IN THE SPECIFICATIONS ONLY, SHALL BE FURNISHED AND INSTALLED IN THE SAME MANNER AS IF THEY APPEARED ON BOTH THE DRAWINGS AND SPECIFICATIONS.
- 4. DRAWINGS DO NOT INDICATE ALL OFFSETS, CHANGES IN ELEVATIONS, ETC. WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL MAKE SUCH CHANGES IN PIPING AND LOCATION OF EQUIPMENT, ETC. TO ACCOMMODATE WORK WITH THAT OF OTHER CONTRACTORS.
- 5. INSTALL EQUIPMENT, DUCTWORK, AND PIPING TO AVOID INTERFERENCE WITH THE OPERATION OR SERVICING AND MAINTENANCE OF EQUIPMENT.
- 6. HVAC CONTRACTOR IS RESPONSIBLE TO PROVIDE ACCESS PANELS AND DOORS WHERE THEY ARE NEEDED TO GAIN ACCESS TO CONCEALED EQUIPMENT.
- 7. ALL COSTS FOR CUTTING, PATCHING AND PAINTING OF EXISTING WALLS, CEILINGS AND FLOORS TO ACCOMMODATE THE INSTALLATION OF HVAC WORK SHALL BE THE RESPONSIBILITY OF THE HVAC CONTRACTOR UNLESS INDICATED OTHERWISE. MATERIALS FOR RESTORATION OF EXISTING SURFACES SHALL MATCH THE EXISTING MATERIALS.
- 8. PIPES AND/OR DUCTS PENETRATING FIRE WALLS AND FLOORS SHALL BE FIRESTOPPED AS SPECIFIED. REFER TO THE ARCHITECTURAL DRAWINGS FOR FIRE WALL AND FLOOR LOCATIONS.
- 9. ALL DUCT SIZES SHOWN ON DRAWINGS INDICATE CLEAR INSIDE DIMENSIONS.
- 10. ALL PHYSICAL ATTRIBUTES OF EQUIPMENT AND DEVICES ARE BASED ON THOSE MANUFACTURERS LISTED IN THE SPECIFICATIONS AND/OR THE EQUIPMENT SCHEDULES. THE RESPECTIVE CONTRACTORS ARE RESPONSIBLE FOR ALL CHANGES BROUGHT ABOUT BY USE OF ITEMS BY OTHER MANUFACTURERS. THE ARCHITECT/ENGINEER HAS RESERVED THE RIGHT TO REJECT ITEMS BY OTHER MANUFACTURERS IF THOSE ITEMS DO NOT MATCH THE PHYSICAL ATTRIBUTES OF THE MANUFACTURERS LISTED.
- 11. COMPLY WITH THE NEW YORK STATE BUILDING CODES, ASHRAE 90.1-2013, AND OTHER APPLICABLE CODES.

HVAC SYMBOLS - DUCTWORK HVAC SYMBOLS - PIPING DESIGNATIONS EXISTING PIPING (REFER TO DESIGNATIONS BELOW FOR TYPE) RECTANGULAR/ROUND SUPPLY AIR DUCTWORK UP AIRFLOW - SUPPLY/OUTDOOR AIR PIPING TO BE REMOVED (REFER TO DESIGNATIONS BELOW FOR TYPE) AIRFLOW - RETURN/EXHAUST AIR **BOILER BLOWDOWN** RECTANGULAR/ROUND RETURN OR EXHAUST AIR RECTANGULAR DUCTWORK (FIRST NUMBER 12"x8" DUCTWORK UP CONDENSATE RETURN INDICATES VISIBLE DIMENSION) RECTANGULAR/ROUND SUPPLY AIR DUCTWORK ROUND DUCTWORK —— FW —— FEEDWATER HOT WATER SUPPLY RECTANGULAR/ROUND RETURN OR EXHAUST AIR FLAT OVAL DUCTWORK 12"x8"o— DUCTWORK DOWN HOT WATER RETURN LOW PRESSURE STEAM RECTANGULAR ELBOW WITH TURNING VANES 12"x8"L "L" INDICATES LINED DUCTWORK MAKE-UP WATER PUMPED DISCHARGE ______ FLEXIBLE DUCTWORK REFRIGERANT - LIQUID **VOLUME DAMPER** REFRIGERANT - SUCTION RECTANGULAR CEILING DIFFUSER (ARROWS —— CHWS —— CHILLED WATER SUPPLY INDICATE DIRECTION OF THROW) FIRE DAMPER CHILLED WATER RETURN —— CWS —— CONDENSER WATER SUPPLY SMOKE DAMPER CIRCULAR CEILING DIFFUSER CONDENSER WATER RETURN POINT OF CONNECTION MOTOR OPERATED DAMPER RETURN/EXHAUST REGISTER OR GRILLE **HVAC SYMBOLS - VALVES AND SPECIALTIES** VAV BOX (X INDICATES BOX DESIGNATION) SHUT-OFF VALVE (GATE, BALL, ETC.) LINEAR DIFFUSER BALANCING VALVE (X INDICATES GPM) DUCT MOUNTED COIL TWO-WAY AUTOMATIC CONTROL VALVE SIDEWALL DIFFUSER, REGISTER OR GRILLE THREE-WAY AUTOMATIC CONTROL VALVE FLEXIBLE DUCT CONNECTION CHECK VALVE STRAINER DIFFUSER, REGISTER OR GRILLE DESIGNATION SMOKE DETECTOR TYPE X INDICATES: GLOBE VALVE CD - CEILING DIFFUSER LD - LINEAR DIFFUSER PRESSURE REDUCING VALVE RCD - RECTANGULAR CEILING DIFFUSER DUCT MOUNTED SENSOR EG - EXHAUST GRILLE X INDICATES: **ER - EXHAUST REGISTER** LOCKING VALVE SP - STATIC PRESSURE RG - RETURN GRILLE T - TEMPERATURE RR - RETURN REGISTER TRIPLE DUTY VALVE H - HUMIDITY TG - TRANSFER GRILLE) V - VELOCITY FLOW CONTROL VALVE WALL MOUNTED THERMOSTAT RELIEF VALVE (X INDICATES T - TEMPERATURE WALL MOUNTED REMOTE SENSOR THERMOSTAT STEAM TRAP (X INDICATES S WALL MOUNTED TEMPERATURE SENSOR WALL MOUNTED HUMIDISTAT BRANCH CONNECTION - BOTTOM **BRANCH CONNECTION - TOP ELBOW - TURNED DOWN** ELBOW - TURNED UP HVAC SYMBOLS - CONTROLS FLEXIBLE CONNECTOR DIRECTION OF FLOW DAMPER ACTUATOR DIRECT EXPANSION REFRIGERANT COIL DIRECTION OF DOWNWARD PITCH SENSOR/SWITCH (X INDICATES OPPOSED BLADE DAMPER FIRE DAMPER GAUGE (X INDICATES T - TEMPERATURE Ts-----ELEC/PNEU TRANSDUCER AVERAGING TEMPERATURE SENSOR P - PRESSURE F - FLOW)





Cattaraugus County **CATTARAUGUS COUNTY**

LITTLE VALLEY CIVIL DEFENSE AHU IMPROVEMENTS

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P - PRESSURE

T - THERMOSTATIC

IB - INVERTED BUCKET)

P - PRESSURE

F - FLOW)

PRESSURE/TEMPERATURE TAP

CIRCULATING PUMP

PIPE GUIDE (PG)

PIPE ANCHOR (PA)

UNION

REDUCER

T - TEMPERATURE

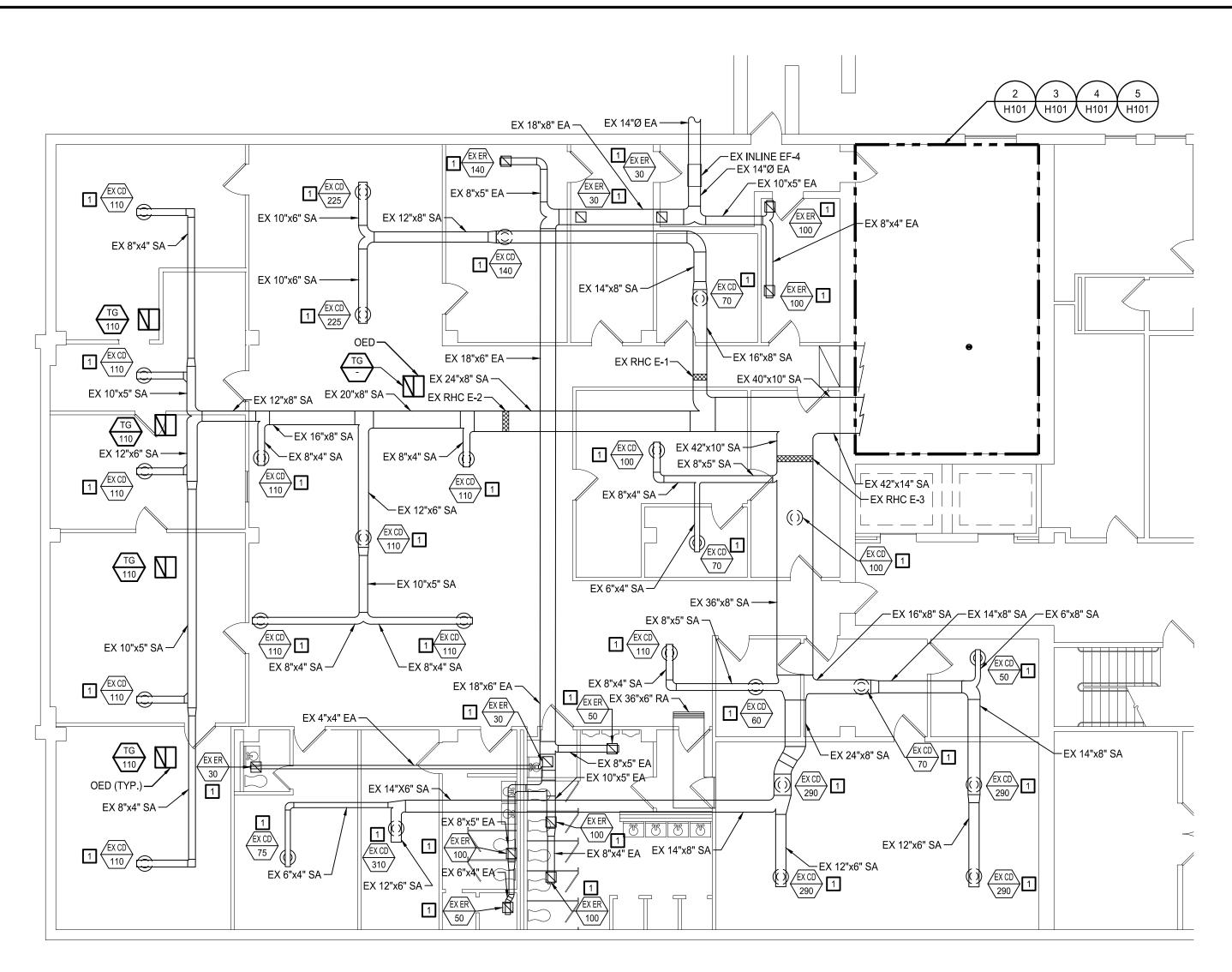
PT - COMBINATION PRESS/TEMP)

FT - FLOAT AND THERMOSTATIC

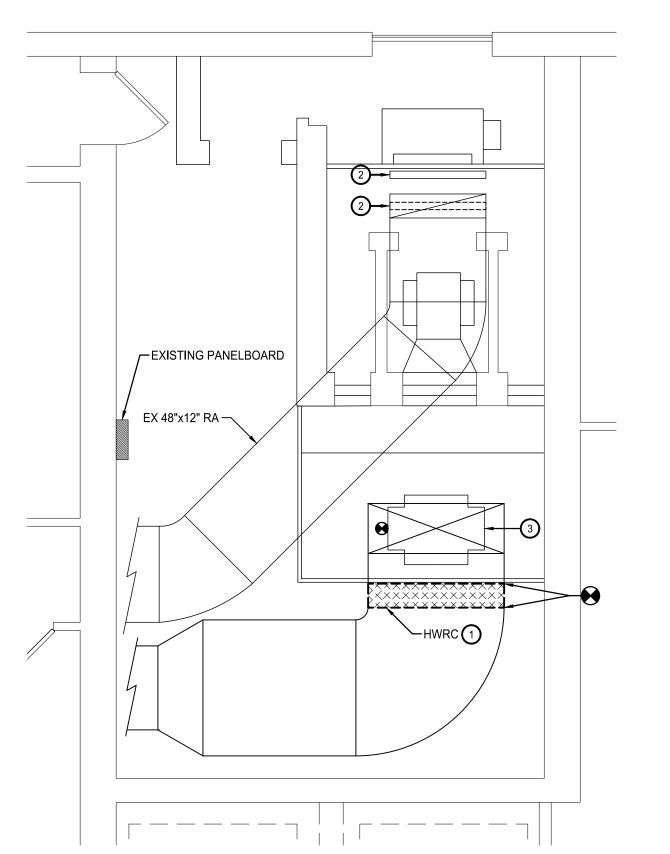
BID DOCUMENTS 09/19/2018 REVISIONS DATE

DWG. TITLE MECHANICAL SYMBOLS, NOTES, AND ABBREVIATIONS

GENERIC SCALE BAR SCALE BAR SHOWN IS TWO INCHES ON THE ORIGINAL DRAWING. IF NOT TWO INCHES ON THIS SHEET, ADJUST ACCORDINGLY DATE 09/19/2018 AS NOTED SCALE DWN. NBN CHK. GMM PROJ. No.

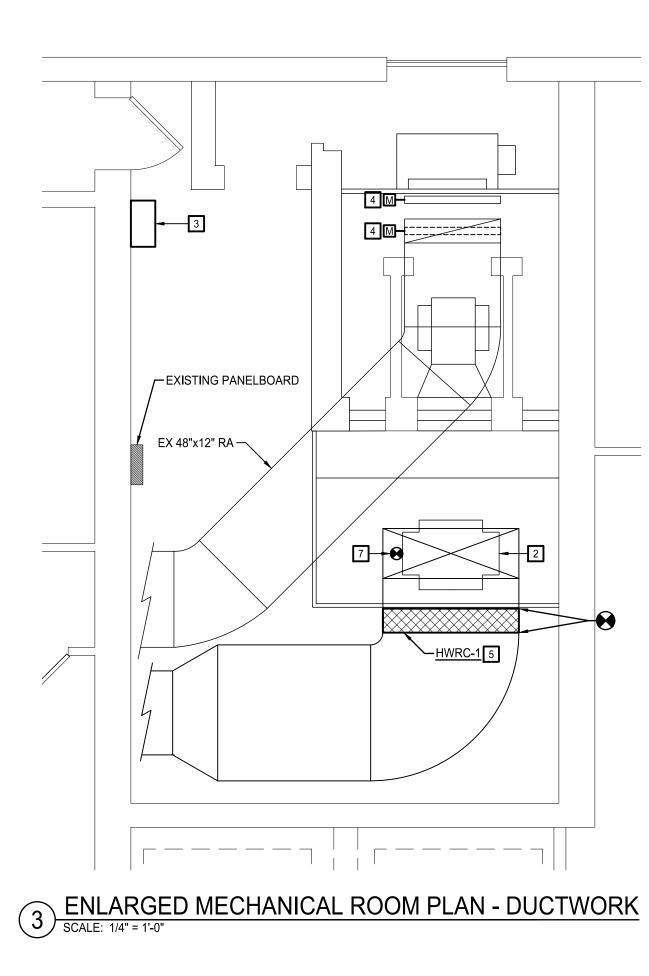


PARTIAL GROUND FLOOR DUCTWORK PLAN SCALE: 1/8" = 1'-0"



ENLARGED MECHANICAL ROOM DEMOLITION PLAN - DUCTWORK

SCALE: 1/4" = 1'-0"



GENERAL NOTES:

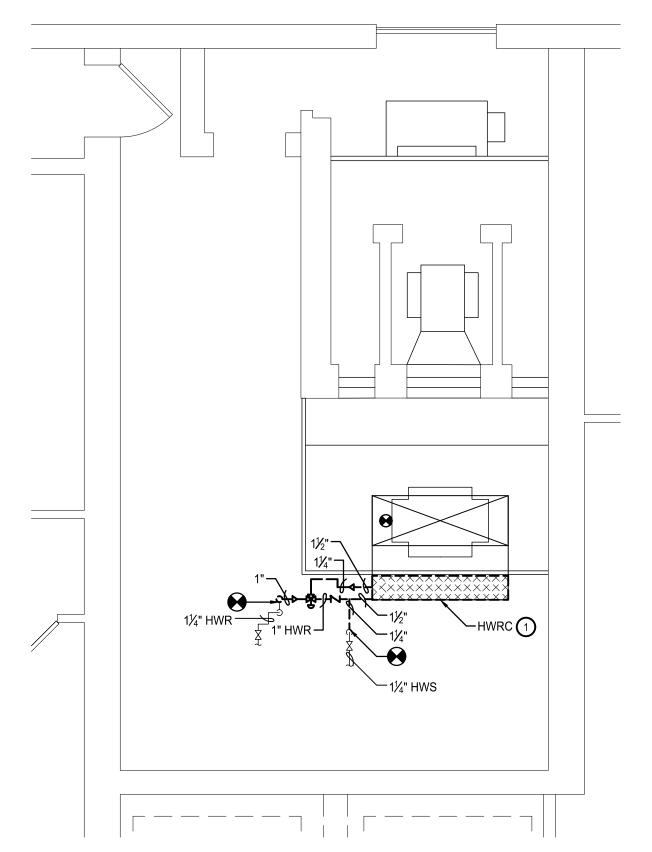
- A. PROVIDE EXTERIOR DUCT SEALING ON EXISTING DUCTWORK SHOWN ON PLAN. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- B. CLEAN INTERIOR OF EXISTING DUCTWORK SHOWN ON PLAN. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- C. REMOVE AND REINSTALL EXISTING CEILING TILES TO CLEAN AND SEAL EXISTING DUCTWORK. CONTRACTOR SHALL REPLACE AT OWN COST ANY TILES THAT BECOME DAMAGED OR DESTROYED DURING COURSE OF WORK.

DEMOLITION NOTES:

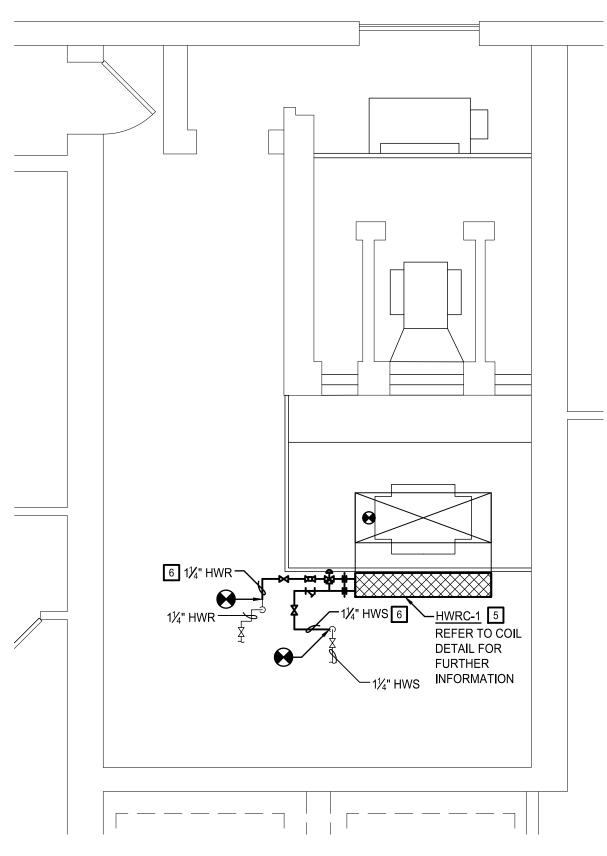
- REMOVE HOT WATER REHEAT COIL AND ALL ASSOCIATED HOT WATER PIPING AND VALVES BACK TO POINT OF DISCONNECTION SHOWN.
- 2. REMOVE PNEUMATIC ACTUATOR ON DAMPER. EXISTING DAMPER TO REMAIN FOR REUSE.
- 3. REMOVE AIR HANDLING UNIT SUPPLY FAN 3HP MOTOR. REMOVE FAN SHEAVE, MOTOR SHEAVE, AND FAN BELT. DISCONNECT AND REMOVE EXISTING ELECTRICAL CONNECTION TO SUPPLY FAN AND ALL ASSOCIATED ELECTRICAL WORK BACK TO EXISTING PANELBOARD WITHIN THE ROOM. EXISTING CIRCUIT BREAKER SHALL REMAIN TO BE REUSED.

■ CONSTRUCTION NOTES:

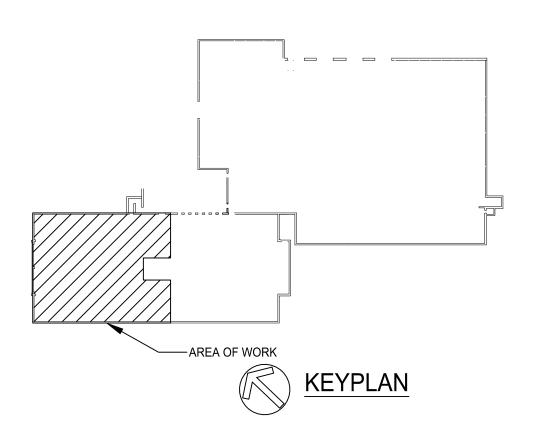
- REBALANCE EXISTING AIR DEVICE TO INDICATED QUANTITY UPON CONCLUSION OF SYSTEM IMPROVEMENTS.
- 2. PROVIDE PREMIUM EFFICIENCY 3HP MOTOR. PROVIDE FAN SHEAVE, MOTOR SHEAVE, AND FAN BELT. CLEAN EXISTING SUPPLY FAN.
- 3. PROVIDE 3HP COMBINATION FUSED DISCONNECT SWITCH / VARIABLE FREQUENCY DRIVE FOR AIR HANDLING UNIT SUPPLY AIR FAN. PROVIDE NECESSARY HARDWARE TO WALL MOUNT VFD. REBALANCE AHU TO 4900 CFM UPON CONCLUSION OF SYSTEM IMPROVEMENTS.
- 4. PROVIDE MOTORIZED OPPOSED BLADE DAMPER ACTUATOR AND INSTALL IN EXISTING DAMPER.
- 5. PROVIDE DUCT MOUNTED HOT WATER REHEAT COIL AS SCHEDULED. INSTALL IN EXISTING SUPPLY DUCTWORK AT POINTS OF CONNECTION SHOWN.
- 6. PROVIDE HOT WATER PIPING AND ASSOCIATED VALVES TO HOT WATER REHEAT COIL. CONNECT INTO EXISTING HOT WATER PIPE AT POINT OF CONNECTION SHOWN. REFER TO COIL DETAIL FOR MORE INFORMATION.
- 7. PROVIDE ELECTRICAL CONNECTION TO NEW 3HP MOTOR FROM EXISTING PANELBOARD TO NEW VFD. FROM NEW VFD TO MOTOR. REUSE EXISTING CIRCUIT BREAKER LEFT FROM DEMOLITION. PROVIDE (3)#12 AWG AND (1)#12 GND WIRES IN 3/4" CONDUIT.



4 ENLARGED MECHANICAL ROOM DEMOLITION PLAN - PIPING
SCALE: 1/4" = 1'-0"



5 ENLARGED MECHANICAL ROOM PLAN - PIPING
SCALE: 1/4" = 1'-0"





CATTARAUGUS COUNTY

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PARTIAL GROUND FLOOR DUCTWORK AND PIPING PLANS

0 1" 2"

GENERIC SCALE BAR

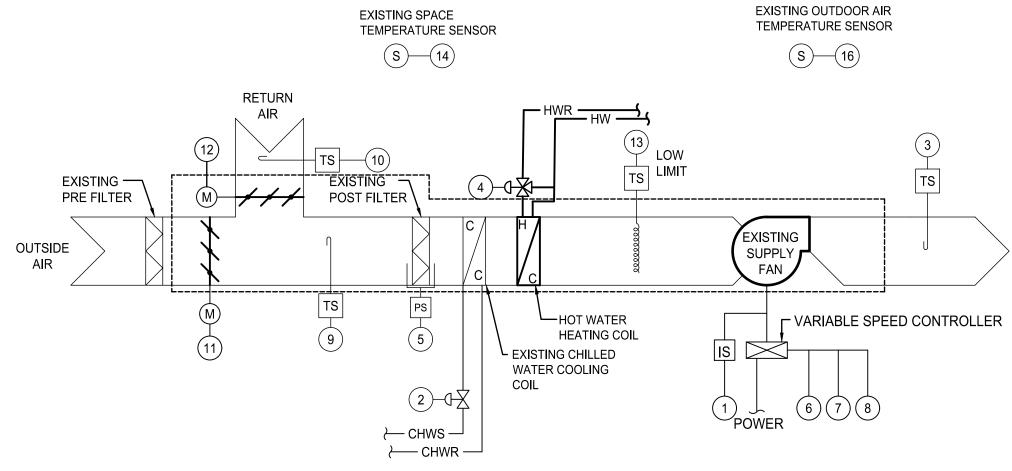
SCALE BAR SHOWN IS TWO INCHES ON THE ORIGINAL DRAWING. IF NOT TWO INCHES ON THIS SHEET, ADJUST ACCORDINGLY

DATE 09/19/2018

SCALE AS NOTED

307659 ME101

PROJ. No.



CONTROL POINTS LIST		HARD	WARE		SOFTWARE					
		JTPUT	INP	rUT	ALA	ARMS	DMC FUNCTION			
	DIGITAL	ANALOG	DIGITAL ANALOG		DIGITAL ANALOG		BMS FUNCTION			
SYSTEM: EXISTING CIVIL DEFENSE AIR HANDLING UNIT		PNEUMATIC TRANSDUCER ELECTRONIC TRANSDUCER 4-20 MA	TEMPERATURE PRESSURE OCCUPANCY SWITCH CLOSURE AUXILIARY CONTACT	TEMPERATURE RELATIVE HUMIDITY PRESSURE CURRENT FLOW CO2 LEVELS	EQUIPMENT STATUS MAINTENANCE FAILURE HIGH LIMIT	HIGH LIMIT LOW LIMIT RUN TIME FAILURE	SCHEDULED START/STOP OPTIMUM START/STOP UNIT ENABLE/DISABLE DEMAND LIMITING DAY/MICHT SETBACK ECONOMIZER VENTILATION TEMPERATURE CONTROL ENTHALPY RETURN AIR DAMPER POSITION FILTER PRESSURE STATIC PRESSURE STATIC PRESSURE SUPPLY FLOW RETURN FLOW RETURN FLOW RETURN FLOW RETURN FLOW			
POINT DESCRIPTION										
1 SUPPLY FAN STATUS	 	111111	 			 				
2 EXISTING CHILLED WATER 2-WAY CONTROL VALVE		X					X X			
3 EXISTING DISCHARGE TEMPERATURE				X		XX				
4 HOT WATER 3-WAY CONTROL VALVE										
5 EXISTING FILTER PRESSURE		\bot		X		$\bot \bot \bot \bot \bot \bot$				
6 SUPPLY FAN SPEED	\bot					\bot				
7 SUPPLY FAN START/STOP		+++++				+++++	<u> X </u>			
8 SUPPLY FAN ALARM	+++++	+++++	\square			+++++				
9 EXISTING MIXED AIR TEMPERATURE	++++	+++++	+++++	<u> </u>	\square	+++++	X			
10 EXISTING RETURN AIR TEMPERATURE	++++	++++++	+++++	X	\square	+++++				
11 OUTDOOR AIR DAMPER	++++	 	+++++		++++	+++++				
12 RETURN AIR DAMPER 13 EXISTING DISCHARGE TEMPERATURE #1 (FREEZE-40 DEG F)	++++	 	╂┼┼┼┼┤	\blacksquare	++++	 				
14 EXISTING SPACE TEMPERATURE SENSOR	++++	+++++	╂┼┼┼	+++++	++++	 	 			
15 EXISTING OUTDOOR AIR TEMPERATURE SENSOR	++++		 		\cdots	 	 			

AIR HANDLING UNIT CONTROL POINTS LIST
SCALE: NTS

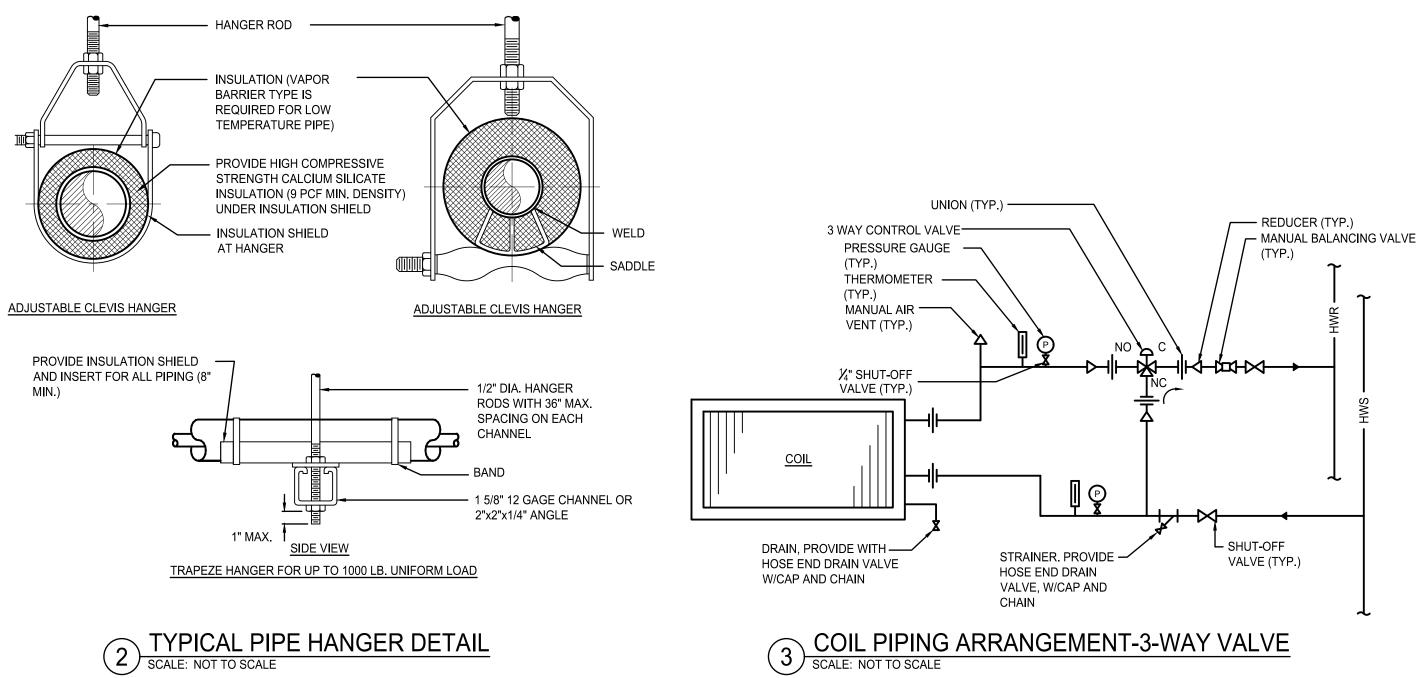
				НО	T WAT	ER RE	HEAT (COIL SO	CHEDU	ILE (HV	/RC)					
				AIR SIDE		WATER SIDE				FIN	FACE	FIN	COIL FACE			
PLAN DESIGNATION	MANUFACTURER MODEL NO.	LOCATION	CAPACITY (MBH)	AIR FLOW (CFM)	EAT/LAT (°F)	AIR ΔP (IN. WG)	WATER FLOW (GPM)	EWT/LWT (°F)	FLUID/ MEDIA	WATER ΔP (FT. WG)	ROWS DEEP	HEIGHT x FIN LENGTH	VELOCITY (FPM)	SPACING (FPFT)	AREA (SQ FT)	NOTES
HWRC-1	LUVATA 5MS0602A	MECH RM	197.5	4900	55/85	.06	16.31	180/160	0% GLYCOL	0.60	2	25.5 X 68	406.9	72	12.04	1,2
NOTES:										_						

1. PROVIDE DRAINABLE COIL WITH ALUMINUM FINS.

VERIFY COIL DIMENSIONS AND COIL CONNECTION SIDE PRIOR TO ORDERING COIL.

			AIR INLET	AND OUTLE	ET SCHEDU	JLE			
PLAN DESIGNATION	CFM RANGE	STATIC PRESSURE (IN. WG)	MANUFACTURER MODEL NO.	TYPE	MATERIAL	NECK SIZE (IN.)	FACE SIZE (IN.)	N.C. LEVEL	NOTES
TG	0-360	.015	PRICE 535	RETURN GRILLE	STEEL	24X12	-	<30	1,2

1. VERIFY CEILING LOCATION PRIOR TO ORDERING. 2. PROVIDE REQUIRED BRACKETS, FLANGES, SURFACE PLATES, ETC. TO MOUNT DIFFUSERS, REGISTERS, AND GRILLES IN CEILINGS.



3 COIL PIPING ARRANGEMENT-3-WAY VALVE
SCALE: NOT TO SCALE

Cattaraugus County

CATTARAUGUS COUNTY

LITTLE VALLEY **CIVIL DEFENSE AHU IMPROVEMENTS**

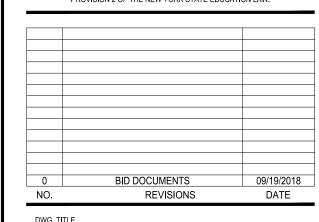
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MECHANICAL DETAILS AND SCHEDULES

	1" GENERIC SCA BAR SHOWN IS TWO INCHES T TWO INCHES ON THIS SHEE	ON THE ORIGIN	
DATE	09/19/2018		
SCALE	AS NOTED		
DWN.	NBN	CHK.	GMM
PROJ. No.	307659		

ME201