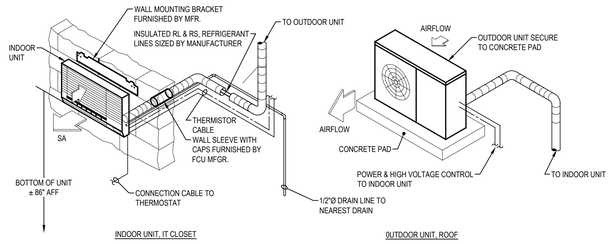
SPLIT AIR COOLED AIR CONDITIONING UNIT SCHEDULE

DESIGNATION	AREA SERVED	EVAPORATOR UNIT										CONDENSING UNIT											EER ACTUAL / EER REQUIRED	COP ACTUAL / COP REQUIRED	COMMENTS
		COOLING CAPACITY			HEATING CAPACITY	CFM	ENT. AIR (°F)	LVG. AIR (°F)	ELECTRICAL		WEIGHT (LBS)	DIMENSIONS (LxWxH)	MANUFACTURER/ MODEL	DESIGNATION	NOMINAL TONS	COOLING (MBH)	HEATING (MBH)	ELECTRICAL			AMB. (°F)	ELECTRICAL VOLT/Ø/Hz	WEIGHT (LBS)	DIMENSIONS (WxHxD)	MANUFACTURER/ MODEL			
		NOMINAL (TONS)	TOTAL (MBH)	SENSIBLE (MBH)					VOLT/Ø/Hz	MCA								MCA	MOP	RLA							
AC-1-1	COURT ROOM	2	24	17	27	635	80	67	208-230/1/60	0.6	30.9	41.4 x 9.3 x 11.4	DAIKIN FXAQ24PVJU	ACCU-1	7	95	77	36.3	45	19	95	208-230/3/60	524	49 x 66 x 30	DAIKIN RXYQ96XATJA	14.3 / 11	4.21 / 3.3	--
AC-1-2	COURT ROOM	2	24	17	27	635	80	67	208-230/1/60	0.6	30.9	41.4 x 9.3 x 11.4	DAIKIN FXAQ24PVJU															
AC-1-3	COURT ROOM	2	24	17	27	635	80	67	208-230/1/60	0.6	30.9	41.4 x 9.3 x 11.4	DAIKIN FXAQ24PVJU															
AC-1-4	COURT ROOM	2	24	17	27	635	80	67	208-230/1/60	0.6	30.9	41.4 x 9.3 x 11.4	DAIKIN FXAQ24PVJU															
AC-1-5	COURT ROOM	1	12	9	14	290	80	67	208-230/1/60	0.6	26.5	31.4 x 9.3 x 11.4	DAIKIN FXAQ12PVJU															
AC-2-1	OFFICE	.75	9.5	7.1	10.5	280	80	67	208-230/1/60	0.3	26.5	31.4 x 9.3 x 11.4	DAIKIN FXAQ09PVJU	ACCU-2	3	38	31	16.5	30	15.3	95	208-230/1/60	172	37 x 39 x 13	DAIKIN RXTQ36TBVJUA	14.3 / 11	4.21 / 3.3	--
AC-2-2	OFFICE	.5	7.5	6	8.5	260	80	67	208-230/1/60	0.3	26.5	31.4 x 9.3 x 11.4	DAIKIN FXAQ07PVJU															
AC-2-2	OFFICE	.5	7.5	6	8.5	260	80	67	208-230/1/60	0.3	26.5	31.4 x 9.3 x 11.4	DAIKIN FXAQ07PVJU															
AC-2-1	OFFICE	.75	9.5	7.1	10.5	280	80	67	208-230/1/60	0.3	26.5	31.4 x 9.3 x 11.4	DAIKIN FXAQ09PVJU															
AC-2-1	OFFICE	.75	9.5	7.1	10.5	280	80	67	208-230/1/60	0.3	26.5	31.4 x 9.3 x 11.4	DAIKIN FXAQ09PVJU															

SPLIT AIR COOLED AIR CONDITION UNIT SCHEDULE NOTES (TYPICAL FOR EACH UNIT):

1. MANUFACTURER MUST BE CERTIFIED, LISTED, AND LABELED PER AHRI 1230.
2. SYSTEM RATING DATA BASED ON DESIGN AMBIENT CONDITIONS FOR COOLING AND FOR HEATING.
3. SUBMITTED PERFORMANCE DATA MUST BE FULLY DE-RATED FOR ALL COMPONENTS AND ACCESSORIES, INCLUDING BUT NOT LIMITED TO, LINE LENGTH, VERTICAL SEPARATION, CONNECTION RATIO, DESIGN CONDITIONS, CONDENSER COIL COATING.
4. CONDENSING UNITS MUST HAVE FULLY MODULATING INVERTER COMPRESSORS.
5. CONDENSING UNITS MUST HAVE HAVE AUTO CHANGEOVER FUNCTIONS
6. DEMAND LIMITING RELAY CONTACT MUST BE PROVIDED.
7. EEV ACTUATORS MUST BE REMOVABLE FROM VALVE BODY WITHOUT DISTURBING THE REFRIGERANT SYSTEM.
8. FCU THERMOSTATS MUST PROVIDE +/- 1 DEGREE DEAD-BAND SET-POINT AND CONTROL CAPABILITY.
9. MANUFACTURERS SUBMITTAL MUST INCLUDE REFRIGERANT PIPING DIAGRAM WITH PIPE DIAMETERS, LENGTHS, AND REFRIGERANT VOLUME.
10. SUBSTITUTE MANUFACTURER SHALL BE RESPONSIBLE FOR ADDITIONAL PIPING AND REFRIGERANT.
11. CONTRACTOR TO FURNISH AND INSTALL INSULATION ON REFRIGERANT PIPING.
12. MANUFACTURER MUST PROVIDE 10 YEARS PARTS WARRANTY ON ALL FCUS, CONDENSING UNITS, AND MODE CHANGEOVER DEVICES. WARRANTY CONDITIONS MUST BE CLARIFIED DURING SUBMITTAL PHASE.
13. CONDENSING UNITS MUST BE FURNISHED WITH PROTECTIVE COIL COATING TO WITHSTAND ASTM B117 SALT SPRAY TEST FOR A MINIMUM OF 1000 HOURS. PERFORMANCE OF SYSTEM MUST BE DE-RATED FOR COIL COATING.
14. MANUFACTURER MUST PROVIDE 10 YEARS PARTS WARRANTY ON ALL FCUS AND CONDENSING UNITS. WARRANTY CONDITIONS MUST BE CLARIFIED DURING SUBMITTAL



INDOOR UNIT, IT CLOSET

OUTDOOR UNIT, ROOF

DUCTLESS AIR CONDITIONER UNIT DETAIL

NOT TO SCALE

MECHANICAL LEGEND

	CEILING SUPPLY DIFFUSER
	CEILING RETURN/EXHAUST REGISTER
A(200)	DIFFUSER TYPE AND CFM (CUBIC FEET PER MINUTE). REFER TO SCHEDULE.
T	THERMOSTAT/TEMPERATURE SENSOR. REFER TO PLANS FOR LOCATION.
	PIPE UP
	PIPE DROP
	BOTTOM CONNECTION
	TOP CONNECTION
	CAP

NEW YORK STATE BUILDING DEPARTMENT NOTES

ALL WORK SHALL COMPLY WITH APPLICABLE SECTIONS OF THE BUILDING CODE, STATE OF NEW YORK, EFFECTIVE DECEMBER 6, 2019 AND ALL AMENDMENTS AND RULES AND REGULATIONS OF THE DEPARTMENT OF BUILDINGS TO DATE.

1. A TEST WILL BE CONDUCTED UNDER DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR ARCHITECT OR OTHER PERSON HAVING NOT LESS THAN FIVE (5) YEARS EXPERIENCE SUPERVISING THE INSTALLATION OF THE MECHANICAL SYSTEM. THE TEST WILL SHOW COMPLIANCE WITH 2020 BUILDING CODE OF NEW YORK STATE REQUIREMENTS AS OUTLINED IN SECTION [BC 1704].
2. THE LICENSED PROFESSIONAL ENGINEER OR ARCHITECT OR OTHER PERSON HAVING NOT LESS THAN FIVE (5) YEARS EXPERIENCE SUPERVISING THE INSTALLATION OF MECHANICAL SYSTEMS AND CONDUCTING SUCH TESTS WILL FILE DOCUMENTATION AND REPORT OF TEST THAT THE SYSTEM COMPLIES WITH THE CONSTRUCTION DOCUMENTS AND APPLICABLE LAWS.
3. SMOKE DETECTION SYSTEMS SHALL BE INSTALLED AND SEQUENCED TO FOLLOW CONTROLS OPERATIONS IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION [MC 606] OF THE 2020 MECHANICAL CODE OF NEW YORK STATE.
4. THESE PLANS ARE APPROVED ONLY FOR THE WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.
5. TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE ASHRAE 90.1-2016 ENERGY CONSERVATION CODE.

MECHANICAL DEMOLITION NOTES

1. GENERAL
   - A. PRIOR TO PROPOSAL SUBMISSION. THIS CONTRACTOR SHALL VISIT THE SITE TO REVIEW THE EXISTING CONDITIONS ASSOCIATED WITH THE SCOPE OF WORK AND ADJACENT AREAS TO ASCERTAIN THE DIFFICULTIES WHICH WILL AFFECT THE EXECUTION OF THE WORK OF THIS CONTRACT.
   - B. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT THE ABOVE SITE EXAMINATION HAS BEEN MADE AND LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE.
   - C. DEMOLITION WORK SHALL INCLUDE ALL MATERIALS, LABOR, EXTENSIONS, CONNECTIONS, CUTTING REPAIRING, ADAPTING AND OTHER MECHANICAL WORK REQUIRED TO MAINTAIN SERVICE PENDING THE COMPLETION OF THE PERMANENT WORK. COORDINATE THE EXTENT OF DEMOLITION WORK WITH THE ARCHITECT AND BUILDING MANAGEMENT.
2. SCOPE OF WORK.
   - A. ALL EXISTING WORK REQUIRED TO REMAIN BUT INTERFERING WITH PROPOSED NEW MECHANICAL (AS WELL AS ELECTRICAL AND GENERAL CONSTRUCTION WORK) SHALL BE RELOCATED AND RECONNECTED USING MATERIALS CONFORMING TO STANDARDS OF THIS CONTRACT.
   - B. REMOVE ALL EXISTING AIR HANDLERS, CEILING AND FLOOR MOUNTED AIR CONDITIONING UNITS WITH ALL ASSOCIATED DUCTWORK, TERMINAL BOXES, DIFFUSERS, GRILLES, HANGERS AND ACCESSORIES.
   - C. REMOVE ALL PIPING, VALVING AND HANGERS ASSOCIATED WITH PIPING.
   - D. ALL MATERIALS AND EQUIPMENT SHALL BE DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS AND ENVIRONMENTAL REGULATIONS.
   - E. COORDINATE WITH OWNER TO DETERMINE WHETHER EQUIPMENT IS TO BE TURNED OVER FOR FUTURE USE AND STORED IN THEIR ASSOCIATED STORAGE LOCATIONS.

NYS ENERGY CONSERVATION CODE NOTES

1. ALL NEW/REPLACEMENT PIPING INSULATION SHALL MEET MINIMUM REQUIREMENTS REQUIRED BY ASHRAE 90.1-2016 ENERGY CONSERVATION CODE FOR HEATING SYSTEMS AND SERVICE WATER HEATING WITH HEAT TRACE OR AUTOMATIC CIRCULATING.
2. CONTRACTOR SHALL PROVIDE OPERATING AND MAINTENANCE MANUAL HAS BEEN SPECIFIED IN CONSTRUCTION DOCUMENT TO BE PROVIDED TO OWNER.
3. ALL NEW EQUIPMENT ON MECHANICAL EQUIPMENT SHALL MEET OR EXCEED THE MINIMUM EFFICIENCIES LISTED IN THE ASHRAE 90.1-2016 / FEDERAL GUIDELINES.
4. HEATING AND COOLING LOAD CALCULATIONS HAVE BEEN PERFORMED TO SIZE ALL NEW EQUIPMENT INDICATED IN THESE DOCUMENTS AS PER ASHRAE / NYECC GUIDELINES.
5. ALL THERMOSTATIC CONTROLS SHALL BE SPECIFIED WITH THE CITED PROVISIONS, AS APPLICABLE: TEMPERATURE, TEMPERATURE MAINTENANCE OUTLET TEMPERATURE, SET POINT OVERLAP RESTRICTIONS AND OFF-HOUR CONTROLS.
6. REFER TO CONTROLS SPECIFICATIONS FOR CONTROL SYSTEM DESCRIPTION DESCRIBING FUNCTION AND OPERATION OF NEWLY INSTALLED EQUIPMENT.
7. DEMAND CONTROLLED VENTILATION SHALL BE PROVIDED FOR SPACES LARGER THAN 500SF AND AN OCCUPANT LOAD OF 25 PEOPLE/1000SF HAS BEEN DESIGNED.
8. ECONOMIZER CYCLES SHALL BE PROVIDED FOR ALL EQUIPMENT OVER 54,000 BTUH.
9. ALL SINGLE ZONE DX COOLING SYSTEMS > 110,000 BTU/H HAVE BEEN DESIGNED WITH THE CAPABILITY TO REDUCE AIRFLOW AT TO NO GREATER THAN 50% COOLING CAPACITY BY MULTI-SPEED 2 OR VFD.
10. ALL ENERGY RECOVERY VENTILATION FOR SYSTEMS SHALL CONFORM TO ASHRAE TABLE 6.5.6.1.
11. ALL NEW INSULATION SHALL MEET MINIMUM REQUIREMENTS FOR INSTALLED HVAC DUCTWORK AND/OR PIPING WITH JOINTS AND SEAMS SEALED.
12. HEATING AND COOLING LOAD CALCULATIONS FOR DERIVING CORRECT EQUIPMENT SIZE. REFERENCE PROCEDURES IN THE ASHRAE/ACCA 183.

LINE REPRESENTATION

	NEW PIPING, DUCTWORK OR EQUIPMENT
	EXISTING DUCTWORK
	EXISTING PIPING
	EXISTING PIPING, DUCTWORK OR EQUIPMENT TO BE REMOVED
	THERMOSTAT/SENSOR WIRING FROM SENSING DEVICE TO CONTROLLED DEVICE
	NEW EQUIPMENT
	EXISTING EQUIPMENT TO REMAIN
ER	EXISTING EQUIPMENT TO BE RELOCATED
RE	RELOCATED POSITION OF EXISTING EQUIPMENT
	EXISTING EQUIPMENT TO BE REMOVED

DRAWING NOTATIONS

#	DRAWING KEYNOTE TAG
1	DRAWING KEYNOTE TAG
1	DRAWING KEYNOTE TAG
A / B	SECTION DESIGNATION ON DRAWING WHERE SECTION IS CUT A-SECTION DESIGNATION B-DRAWING NO.
	POINT OF NEW CONNECTION TO EXISTING WORK
	POINT OF DEMOLITION
	REMOVE AND PATCH EXISTING WORK
1	REVISION DELTA

ABBREVIATION

AC	AIR CONDITIONING UNIT
ACCU	AIR COOLED CONDENSING UNIT
AD	ACCESS DOOR
AF	AIR FILTER
AFF	ABOVE FINISH FLOOR
AHC	ABOVE HUNG CEILING
BD	BACK DRAFT DAMPER
C	CONDENSATE DRAIN
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CG	CEILING GRILLE
CR	CEILING REGISTER
D	DRAIN
DN	DOWN
GC	GENERAL CONTRACTOR
OA	OUTSIDE AIR
RG	RETURN GRILLE
RA	RETURN AIR
REF	REFRIGERANT
VD	VOLUME DAMPER (OPPOSED BLADE DAMPER)
WAC	WINDOW AIR CONDITIONING UNIT

DRAWING LIST

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ELMSFORD VILLAGE HALL HVAC REPLACEMENT

ELMSFORD VILLAGE HALL

10 NORTH STONE AVE
ELMSFORD, NEW YORK
10523

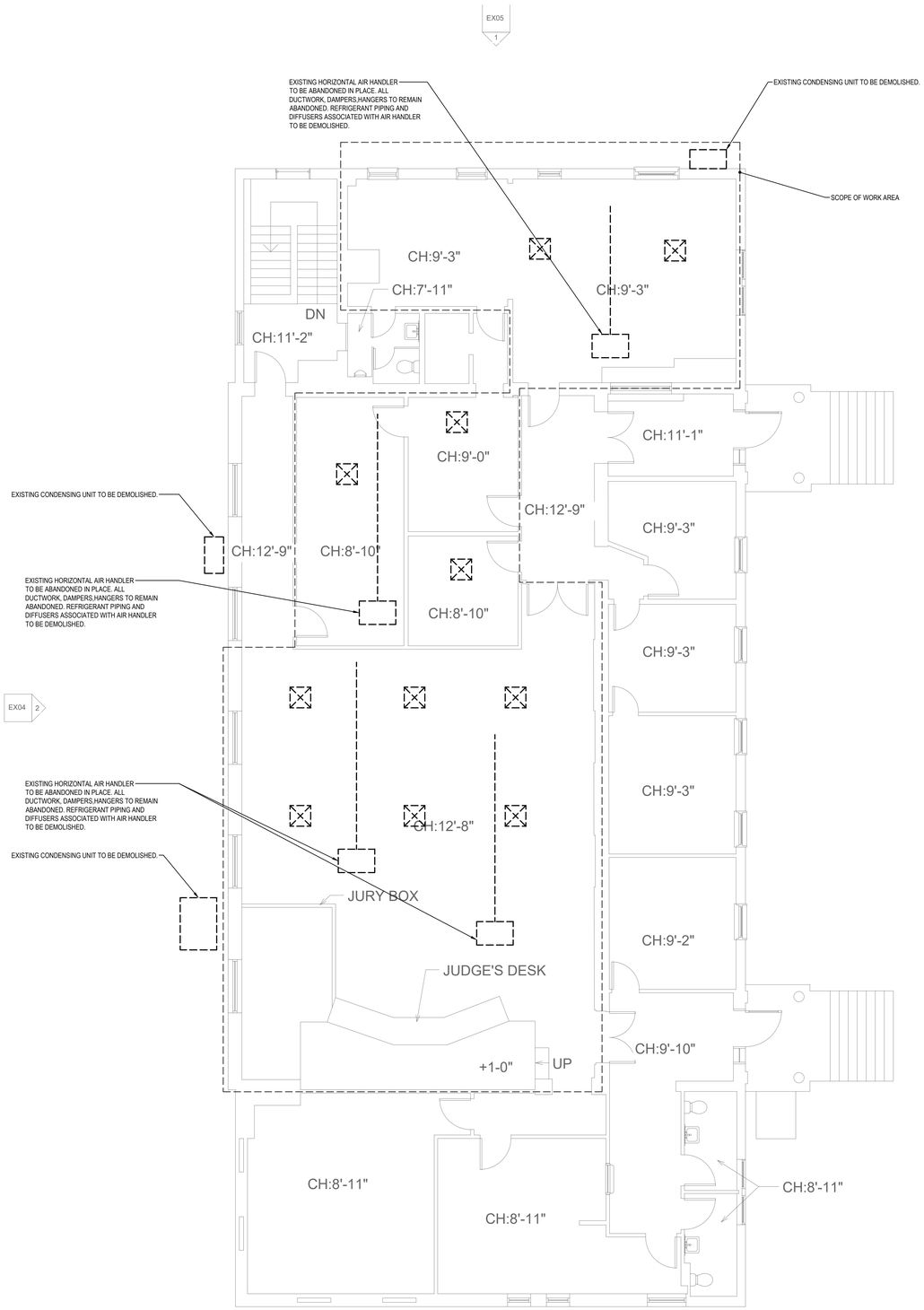
Revision Schedule

Revision Number	Revision Description	Revision Date
1	REVIEW	5/26/23
2	BID	7/26/23

MECHANICAL SYMBOLS, NOTES, SCHEDULES AND DETAILS

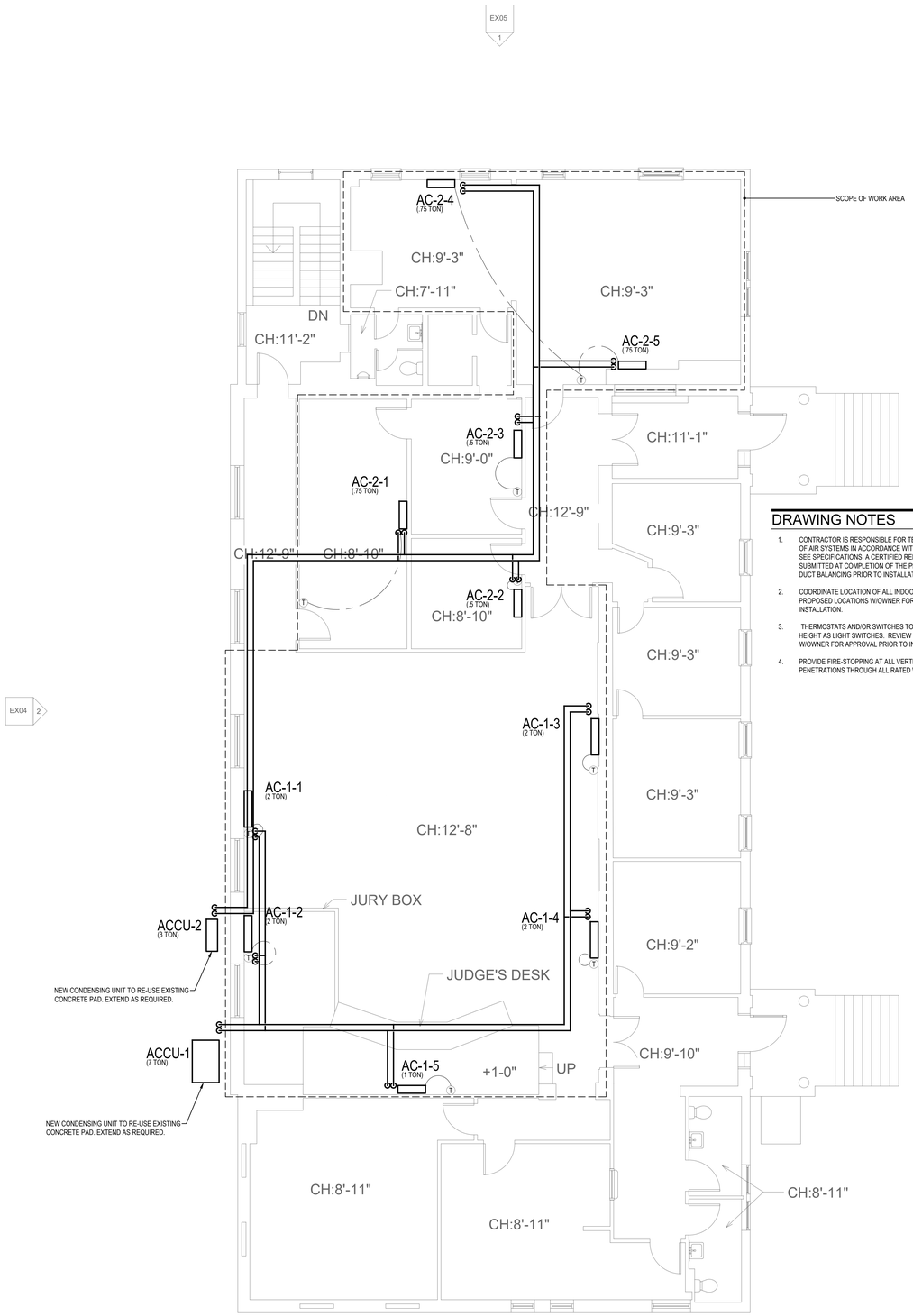
Date: 07/26/23
Scale: NTS
Drawn By: SM

M-001



PROPOSED MECHANICAL DEMOLITION PLAN

SCALE: 3/16" = 1' - 0"



PROPOSED MECHANICAL PLAN

SCALE: 3/16" = 1' - 0"

DRAWING NOTES

1. CONTRACTOR IS RESPONSIBLE FOR TESTING AND BALANCING OF AIR SYSTEMS IN ACCORDANCE WITH NEBB GUIDELINES. SEE SPECIFICATIONS. A CERTIFIED REPORT MUST BE SUBMITTED AT COMPLETION OF THE PROJECT. PROVIDE ALL DUCT BALANCING PRIOR TO INSTALLATION OF CEILING.
2. COORDINATE LOCATION OF ALL INDOOR UNITS. REVIEW PROPOSED LOCATIONS W/OWNER FOR APPROVAL PRIOR TO INSTALLATION.
3. THERMOSTATS AND/OR SWITCHES TO BE MOUNTED AT SAME HEIGHT AS LIGHT SWITCHES. REVIEW PROPOSED LOCATIONS W/OWNER FOR APPROVAL PRIOR TO INSTALLATION.
4. PROVIDE FIRE-STOPPING AT ALL VERTICAL AND HORIZONTAL PENETRATIONS THROUGH ALL RATED WALLS AND FLOORS.

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE NEW YORK STATE ENERGY CONSERVATION CODE

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10523

Revision Schedule

Revision Number	Revision Description	Revision Date
1	REVIEW	5/26/23
2	BID	7/26/23

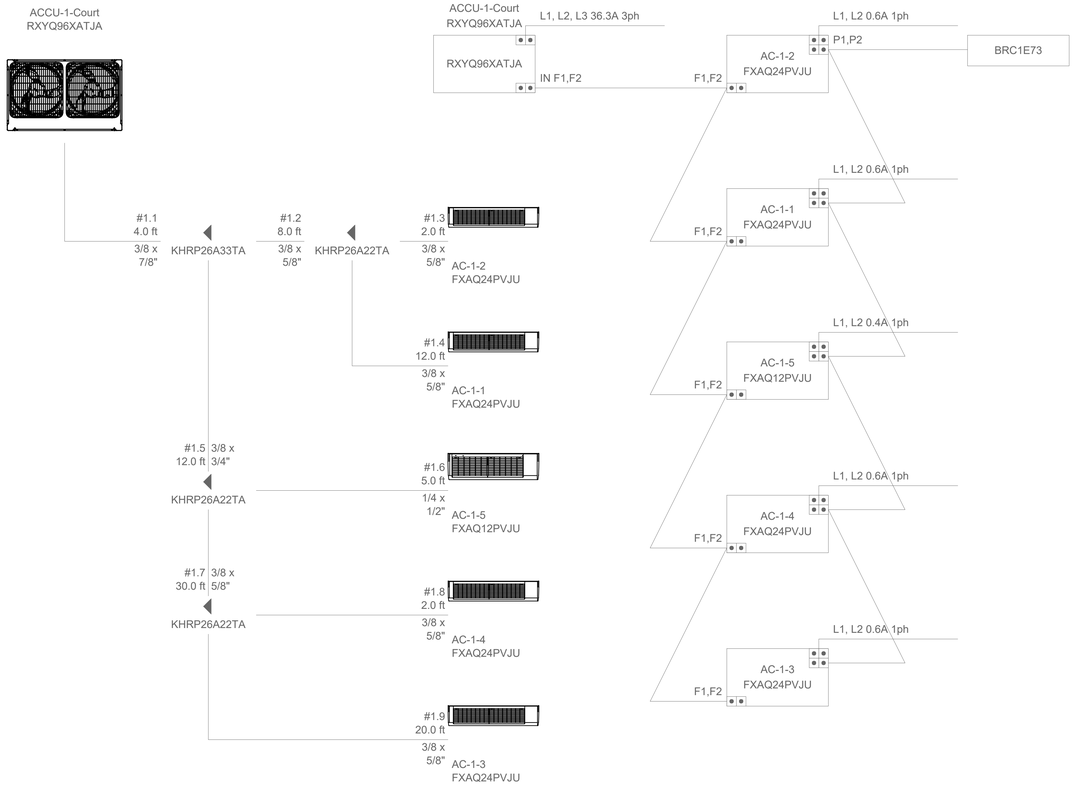
MECHANICAL PLAN

Date: 07/26/23
Scale: 3/16" = 1'-0"
Drawn By: SM

M-101

Client	USA
Project	Elmsford Village Hall
Title	Piping schematics ACCU-1-Court Air cooled heat pump VRV-IV-X -A RXYQ96XATJA
Date	05/25/2023
Drawing No	

Client	USA
Project	Elmsford Village Hall
Title	Wiring schematics ACCU-1-Court Air cooled heat pump VRV-IV-X -A RXYQ96XATJA
Date	05/25/2023
Drawing No	

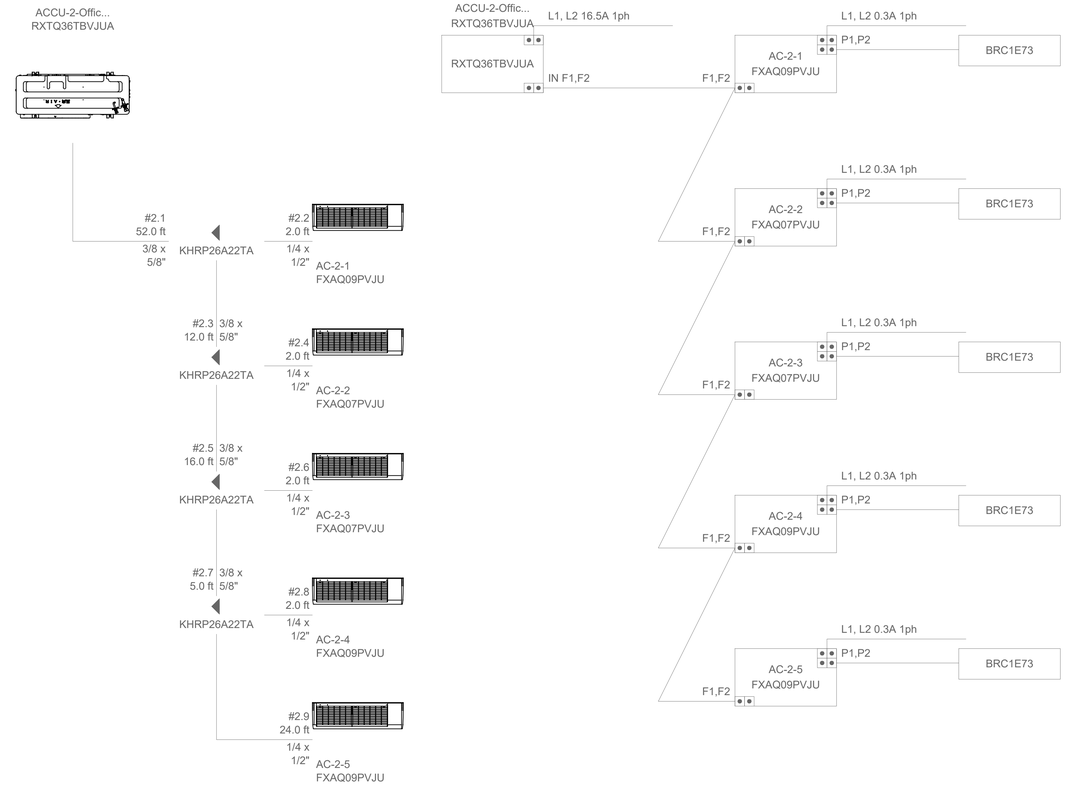


PROPOSED ACCU-1 PIPING AND WIRING RISER DIAGRAM

SCALE: NTS

Client	USA
Project	Elmsford Village Hall
Title	Piping schematics ACCU-2-Offices Air cooled heat pump VRV-IV-S -TB -A R410A RXTQ36TBVJUA
Date	05/25/2023
Drawing No	

Client	USA
Project	Elmsford Village Hall
Title	Wiring schematics ACCU-2-Offices Air cooled heat pump VRV-IV-S -TB -A R410A RXTQ36TBVJUA
Date	05/25/2023
Drawing No	



PROPOSED ACCU-2 PIPING AND WIRING RISER DIAGRAM

SCALE: NTS

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1	REVIEW	5/26/23
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MECHANICAL WIRING AND PIPING RISER

Date: 07/26/23
Scale: NTS
Drawn By: SM

M-201