

GENERAL NOTES:

- DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. IT IS INTENDED THAT ALL COMPONENTS AND MATERIALS REQUIRED TO MAKE THE SYSTEMS COMPLETE, TESTED AND OPERATIONAL BE INSTALLED.
- CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS, DIMENSIONS AND ELEVATIONS BEFORE DEMOLITION AND CONSTRUCTION.
- ALL MATERIALS, EQUIPMENT, METHODS OF INSTALLATION, REMOVALS AND DISPOSAL SHALL BE IN ACCORDANCE WITH THE STANDARDS, REGULATIONS, CODES, ORDINANCES, AND LAWS OF AUTHORITIES THAT HAVE LAWFUL JURISDICTION.
- COMPLETELY COORDINATE WORK OF THIS CONTRACT WITH WORK OF OTHER CONTRACTORS AND OWNERS WORK.
- PROTECT ALL EXISTING BUILDING ELEMENTS AND SITE ELEMENTS TO REMAIN FROM ANY DAMAGE. CONTRACTOR SHALL RESTORE ALL EXISTING CONDITIONS AFFECTED BY DEMOLITION AND CONSTRUCTION TO ORIGINAL OR BETTER CONDITION.
- WORK SHALL BE EXECUTED IN A WORKMANLIKE MANNER AND SHALL PRESENT NEAT, RECTILINEAR APPEARANCE WHEN COMPLETED. MAINTAIN MAXIMUM HEAD ROOM AT ALL TIMES.
- MATERIALS AND EQUIPMENT SHALL BE NEW AND INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. MAINTAIN MANUFACTURER'S EQUIPMENT CLEARANCES.
- ALL EQUIPMENT PIPING, WIRING, INSULATION AND ANCILLARY MATERIALS INSTALLED IN HVAC AIR PLENUM SPACES SHALL MEET CODE REQUIREMENTS FOR SMOKE AND COMBUSTIBILITY.
- DO NOT SUPPORT EQUIPMENT FROM SUSPENDED CEILINGS. ALL SUPPORT SHALL COME FROM BUILDING STRUCTURE. SUPPORTS SHALL BE SELECTED AND INSTALLED TO PROVIDE A VIBRATION FREE INSTALLATION.
- DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH THE LATEST ISSUES OF SMACNA STANDARDS.
- PROVIDE PROPER ACCESS TO MATERIALS AND EQUIPMENT THAT REQUIRE INSPECTION, REPLACEMENT, REPAIR OR SERVICE SUCH AS COILS, DAMPERS, HEATERS, VALVES, ETC. IF PROPER ACCESS CANNOT BE PROVIDED, CONFER WITH THE ENGINEER AS TO THE BEST METHOD OF APPROACH TO MINIMIZE THE EFFECT OF THE REDUCED ACCESS WHICH MAY RESULT.
- RELOCATE EXISTING DUCTING, PIPING, CONDUIT AND OTHER INTERFERENCES TO INSTALL NEW EQUIPMENT AND MATERIALS. OFFSETS IN PIPING AND DUCTS, DIVIDED DUCTS AND TRANSITIONS AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO OWNER.
- THOROUGHLY CLEAN ALL NEW DUCTWORK AFTER INSTALLATION.
- NOTES, SYMBOLS LIST AND DETAILS ARE APPLICABLE TO ALL DRAWINGS IN THE CONTRACT.
- ALL WORK SHOWN IS TO BE COMPLETED BY THIS CONTRACT UNLESS SPECIFICALLY INDICATED OTHERWISE.
- FIRE STOP ALL NEW AND EXISTING SLEEVES THROUGH CONCRETE FLOORS AND FIRE RATED WALLS OR PARTITIONS WITH UL RATED ASSEMBLIES WITH EQUAL FIRE RATING. SEE ARCHITECTURAL PLANS FOR LOCATIONS OF FIRE RATED FLOOR AND WALL ASSEMBLIES.
- CONTRACTOR IS RESPONSIBLE FOR ALL OWNER COORDINATION AND PROCEDURES RELATED TO ISOLATING, SHUTTING DOWN, DRAINING, FILLING AND RESTARTING SYSTEMS, INCLUDING THOSE REQUIRED FOR RELOCATIONS. TO ALLOW FOR COMPLETION OF ALL DEMOLITION AND NEW WORK, INTERRUPTIONS TO EXISTING SERVICES AND SYSTEMS SHALL BE AS SHORT AS POSSIBLE AND AT A TIME AND DURATION APPROVED BY THE OWNER. INCLUDE ALL PREMIUM TIME ASSOCIATED WITH INTERRUPTIONS. ALL SYSTEM INTERRUPTIONS SHALL BE SCHEDULED WITH OWNER AND COORDINATED WITH OTHER CONTRACTORS. CONTRACTOR SHALL FURNISH ALL FLUIDS REQUIRED, INCLUDING GLYCOL FOR FILLING NEW SYSTEMS AND REFILLING EXISTING SYSTEMS.

ABBREVIATIONS:

- ∠ - ANGLE
- AAD - AUTOMATIC AIR DAMPER
- ALUM - ALUMINUM
- BLDG - BUILDING
- BSMT - BASEMENT
- BOT - BOTTOM
- CFM - CUBIC FEET PER MINUTE
- CJ - CONTROL JOINT
- CL - CENTER LINE
- CLG - CEILING
- CLR - CLEAR
- CMU - CONCRETE MASONRY UNITS
- CONC - CONCRETE
- CONST - CONSTRUCTION
- DEMO - DEMOLISH, DEMOLITION
- DN - DOWN
- EA - EACH
- EC - ELECTRICAL CONTRACTOR
- ELEC - ELECTRICAL
- ELEV - ELEVATION
- EQUIP - EQUIPMENT
- E.S.P. - EXTERNAL STATIC PRESSURE
- EX - EXIST - EXISTING
- FIN FLR - FINISHED FLOOR
- FLA - FULL LOAD AMPS
- FPM - FEET PER MINUTE
- FTG - FOOTING
- GA - GAUGE
- GALV - GALVANIZED
- GC - GENERAL CONTRACTOR

ABBREVIATIONS (CONT.):

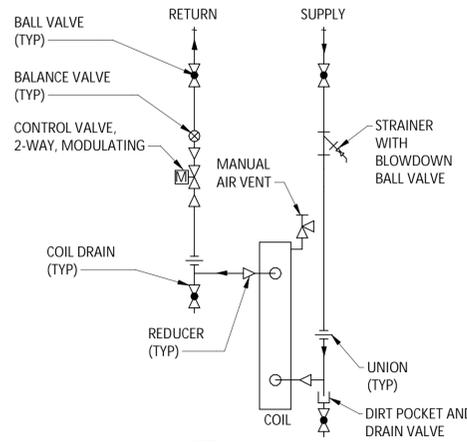
- HP - HORSE POWER
- HZ - HERTZ
- INSUL - INSULATION
- INV - INVERT
- MANUF - MANUFACTURER
- MAX - MAXIMUM
- MC - MECHANICAL CONTRACTOR
- MIN - MINIMUM
- MTL - METAL
- NAT - NATURAL
- NTS - NOT TO SCALE
- OD - OUTSIDE DIAMETER
- PLAS - PLASTIC
- RD - ROOF DRAIN
- SAN - SANITARY
- SHT - SHEET
- SIM - SIMILAR
- SS - STAINLESS STEEL
- STL - STEEL
- T/ - TOP OF
- T&B - TOP AND BOTTOM
- TEMP - TEMPERED
- TYP - TYPICAL
- VIF - VERIFY IN FIELD
- W.G. - WATER GAUGE

LEGEND

- S— SLOPE DN IN DIRECTION OF ARROW
- /— BREAK
- ///// PIPING/EQUIPMENT TO BE REMOVED
- LIMIT OF REMOVAL
- CONNECTION POINT TO EXISTING
- TEE RISE
- TEE DROP
- PIPE RISE
- PIPE DROP
- DIRECTION OF FLOW
- CAP
- ≡ UNION
- △ CONCENTRIC REDUCER
- |— FLANGED CONNECTION
- ~ FLEXIBLE CONNECTION
- |— BUTTERFLY VALVE
- |— PRESSURE GAUGE
- |— THERMOMETER
- |— MANUAL AIR VENT
- |— AUTOMATIC AIR VENT
- |— STRAINER
- |— SWING CHECK VALVE
- |— BALL VALVE
- |— GATE VALVE

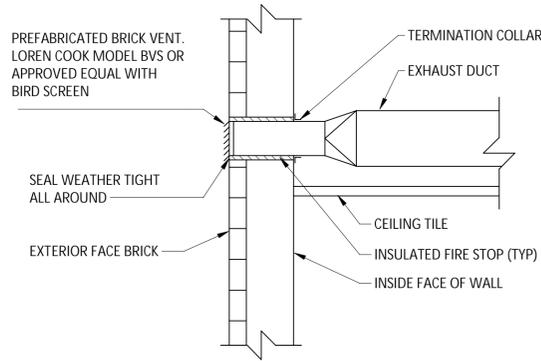
LEGEND

- GLOBE VALVE
- TRIPLE DUTY VALVE
- BALANCE VALVE
- BALL VALVE W/ HOSE CONNECTION, CAP AND CHAIN
- PRESSURE REDUCING VALVE
- SAFETY RELIEF VALVE
- TEMPERATURE SENSOR
- PUMP
- CONTROL VALVE, 3-WAY, MODULATING
- VOLUME DAMPER
- FIRE DAMPER
- SUPPLY DUCT SECTION UP
- SUPPLY DUCT SECTION DOWN
- RET/EXH DUT SECTION UP
- RET/EXH DUT SECTION DOWN
- 45° BRANCH DUCT CONNECTION
- NEW SUPPLY DIFFUSER, REGISTER OR GRILLE (WITH CFM)
- NEW RETURN/EXHAUST REGISTER OR GRILLE (WITH CFM)
- THERMOSTAT (ARROW INDICATES DEVICE)
- HWS— HOT WATER SUPPLY PIPING
- HWR— HOT WATER RETURN PIPING

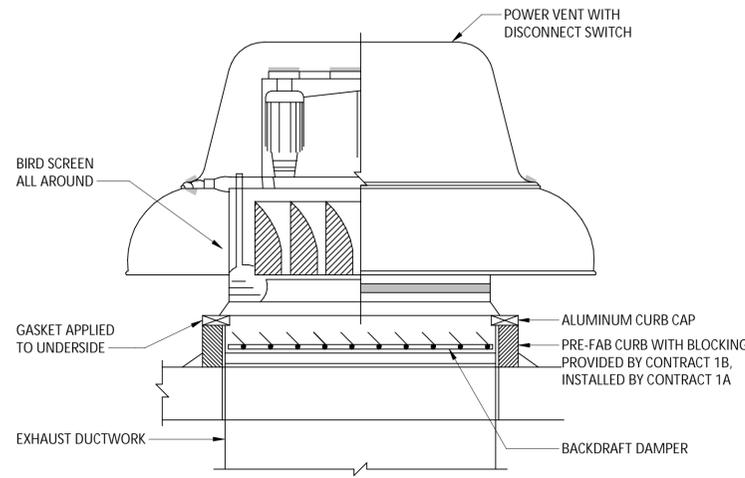


- NOTES:**
- REFER TO DRAWINGS FOR LINE SIZES.
 - ALL ISOLATION VALVES AND ACCESSORIES SHALL BE LINE SIZE UNLESS OTHERWISE SHOWN.

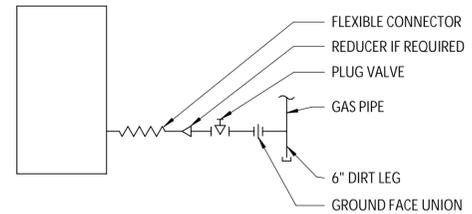
4 HOT WATER REHEAT COIL DETAIL
 SCALE: NOT TO SCALE



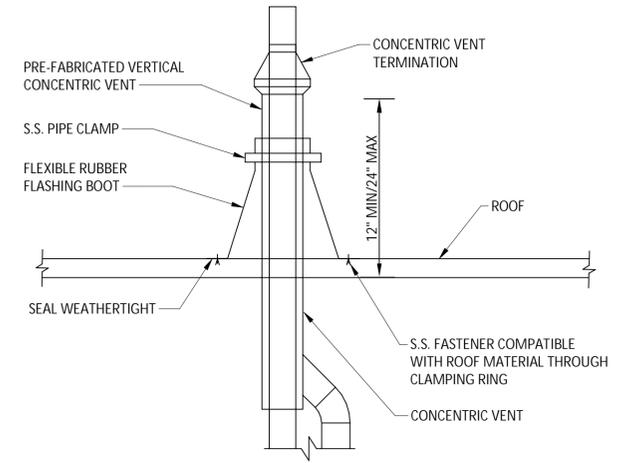
3 BRICK VENT DETAIL
 SCALE: NOT TO SCALE



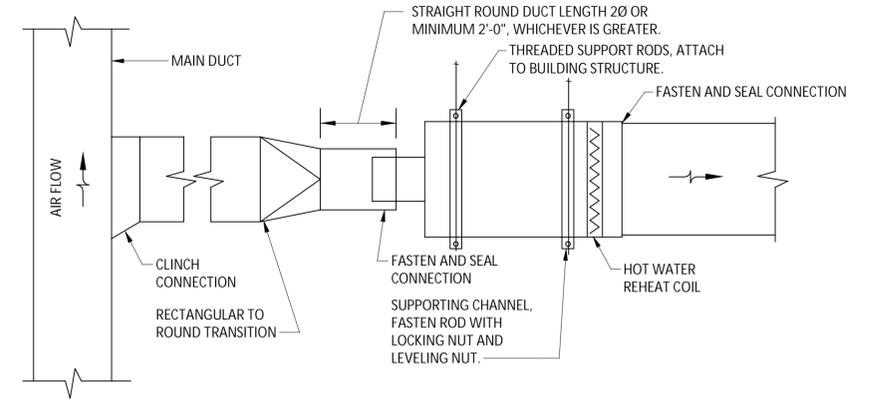
5 EXHAUST FAN DETAIL
 SCALE: NOT TO SCALE



1 TYPICAL GAS FIRED APPLIANCE CONNECTION DETAIL
 SCALE: NOT TO SCALE



2 TYPICAL CONCENTRIC VENT DETAIL
 SCALE: NOT TO SCALE



- NOTES:**
- THE OPERATION OF VARIABLE AIR VOLUME TERMINAL BOX ARE AFFECTED BY EXCESSIVE TURBULENCE ON THE ENTERING SIDE OF EACH TERMINAL BOX. THEREFORE, TERMINAL BOX MUST NOT BE INSTALLED TOO CLOSE TO MAIN DUCTS, ELBOWS AND FITTINGS.
 - WHEN MINIMUM UPSTREAM STRAIGHT DUCT CONNECTION TO TERMINALS AS INDICATED ABOVE CANNOT BE MAINTAINED, PROVIDE ORIFICE PLATE, STRAIGHTENING VANES OR OTHER DEVICE AS RECOMMENDED BY TERMINAL BOX MANUFACTURER AND SUBMIT TO ENGINEER FOR REVIEW PRIOR TO INSTALLATION.
 - DDC PANELS & MOTORS FOR NEW VAV TERMINAL BOXES SHALL BE PROVIDED BY CONTROLS MANUFACTURER AND SHALL BE DELIVERED TO VAV BOX MANUFACTURER. DDC PANEL SHALL CONTAIN STEP DOWN TRANSFORMER (120V AC TO 24V AC) TO POWER CONTROL & MOTOR. BOX MANUFACTURER SHALL FACTORY MOUNT DDC CONTROLLER & MOTOR ON LEFT OR RIGHT HAND SIDE OF VAV BOXES TO SUIT FIELD CONDITIONS. VAV BOX MANUFACTURER WILL PROVIDE ALL SENSORS & DAMPER WITH LINKAGES.
 - ARRANGE ACCESS TO PERMIT EASY FIELD BALANCE AND MAINTENANCE OF TERMINAL UNIT.

6 VAV BOX INSTALLATION DETAIL
 SCALE: NOT TO SCALE

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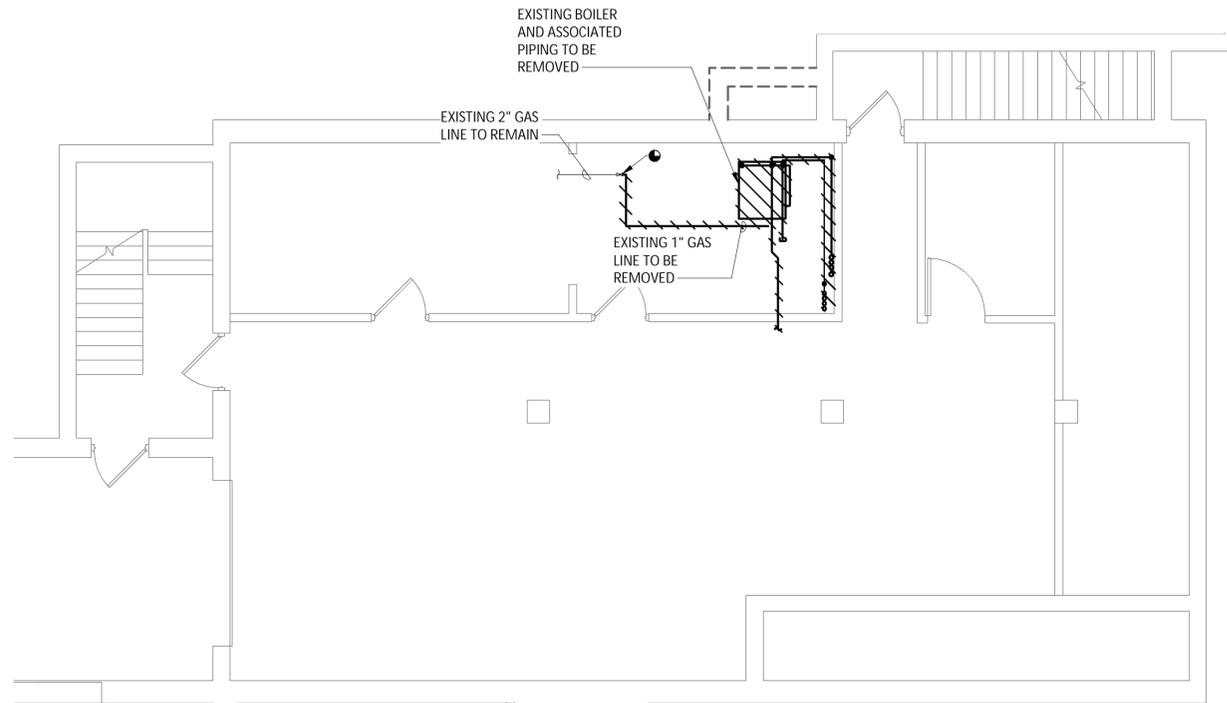
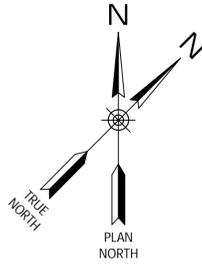
REVISIONS

CITY OF MIDDLETOWN
 NEW COURTHOUSE FACILITY
 CONTRACT 1B - MECHANICAL CONSTRUCTION
SYMBOLS AND ABBREVIATIONS
 ORANGE COUNTY, NEW YORK

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NYS EXP.: 11/30/2025
 Date: AUGUST, 2024
 Scale: AS SHOWN
 Sheet Number: M001
 Project Number: 1753.008.001



GENERAL NOTES:

- 1. REMOVE ALL EXISTING HOT WATER SUPPLY AND RETURN PIPING, VALVES AND INSULATION IN THE BASEMENT COMPLETE.
- 2. REMOVE EXISTING BOILER VENTING COMPLETE. EXISTING CHIMNEY BEING REMOVED IN CONTRACT 1A.

BASEMENT HVAC PIPING DEMOLITION PLAN

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



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CITY OF MIDDLETOWN
NEW COURTHOUSE FACILITY
CONTRACT 1B - MECHANICAL CONSTRUCTION
BASEMENT HVAC DEMOLITION PLAN
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ORANGE COUNTY, NEW YORK

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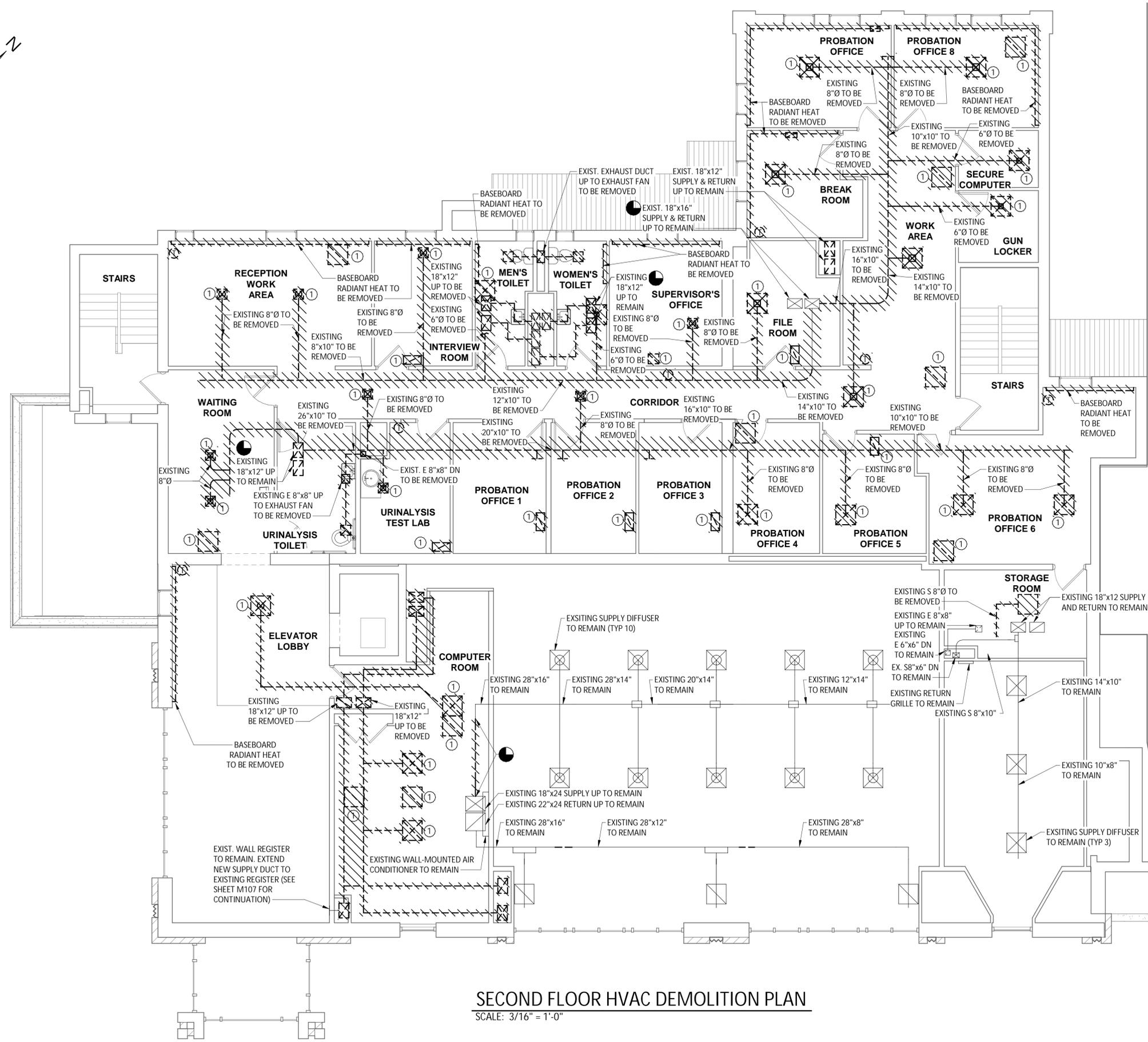
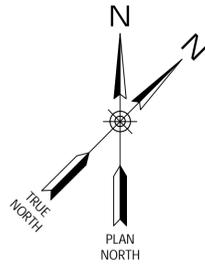
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AUGUST, 2024

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Sheet Number
M100

Project Number
1753.008.001



- GENERAL NOTES:**
- REMOVE ALL EXISTING HOT WATER SUPPLY AND RETURN PIPING, FIN TUBE, THERMOSTATS, VALVES AND INSULATION AT ALL LEVELS COMPLETE.
 - REMOVE EXISTING DUCTWORK AND DUCTWORK INSULATION BETWEEN FLOORS UNLESS SPECIFICALLY SHOWN TO REMAIN.
- KEYED NOTES:**
- ① REMOVE SUPPLY DIFFUSER OR RETURN DIFFUSER IN ITS ENTIRETY.

SECOND FLOOR HVAC DEMOLITION PLAN
SCALE: 3/16" = 1'-0"



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REVISIONS	
2	1/31/23 ADD. 2

CITY OF MIDDLETOWN
NEW COURTHOUSE FACILITY
CONTRACT 1B - MECHANICAL CONSTRUCTION
SECOND FLOOR HVAC DEMOLITION PLAN
ORANGE COUNTY, NEW YORK
CITY OF MIDDLETOWN

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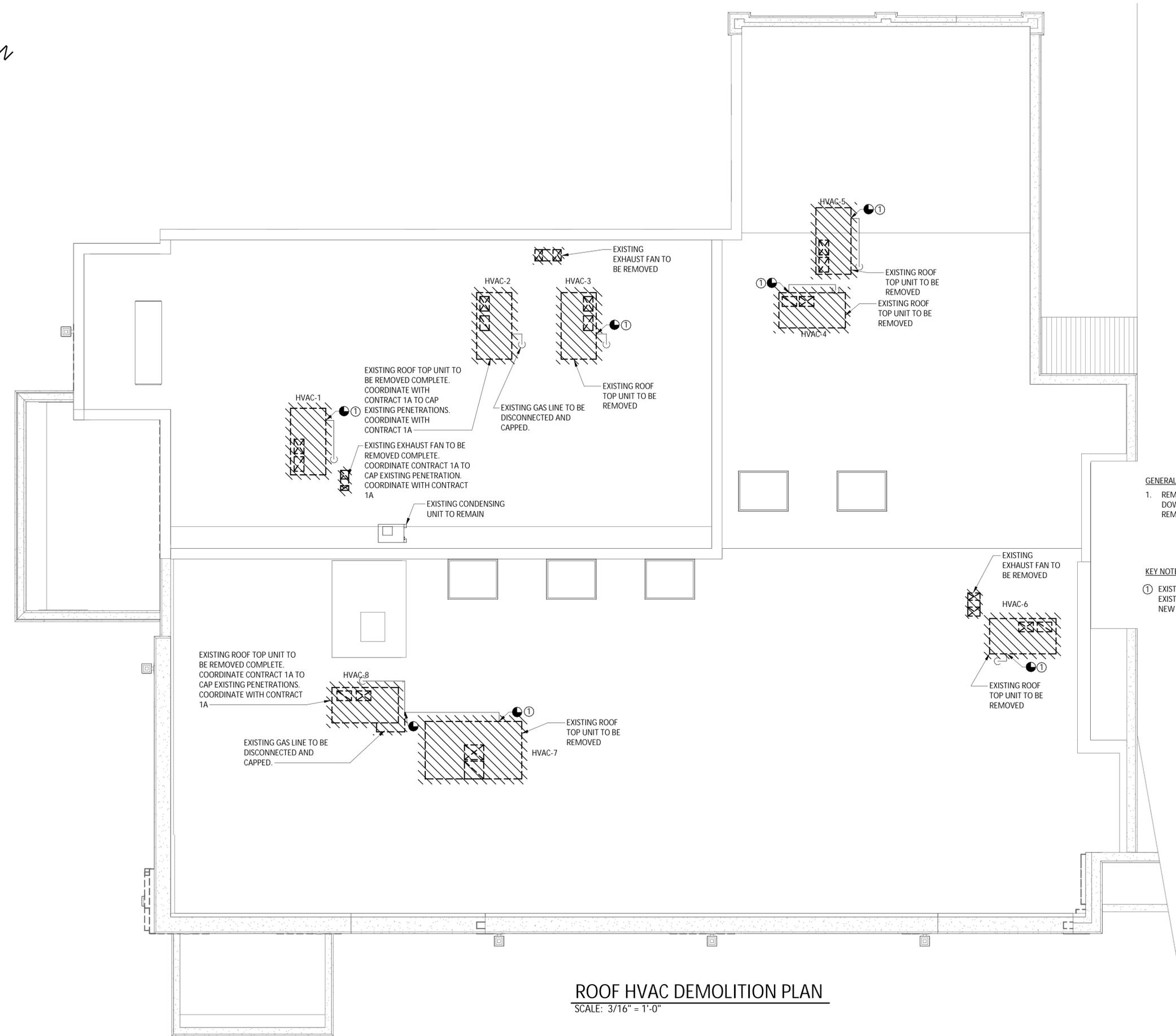
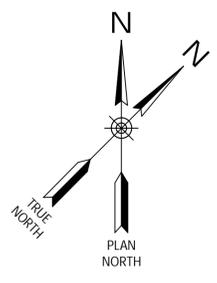


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Project Number: 1753.008.001

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GENERAL NOTES:

- 1. REMOVE EXISTING DUCTWORK AND DUCTWORK INSULATION DOWN THROUGH ROOF UNLESS SPECIFICALLY SHOWN TO REMAIN.

KEY NOTES:

- ① EXISTING GAS LINE TO BE DISCONNECTED FROM EXISTING ROOFTOP UNITS AND RECONNECTED TO NEW ROOFTOP UNITS.

ROOF HVAC DEMOLITION PLAN
 SCALE: 3/16" = 1'-0"

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CITY OF MIDDLETOWN
 NEW COURTHOUSE FACILITY
 CONTRACT 1B - MECHANICAL CONSTRUCTION
ROOF HVAC DEMOLITION PLAN
 ORANGE COUNTY, NEW YORK

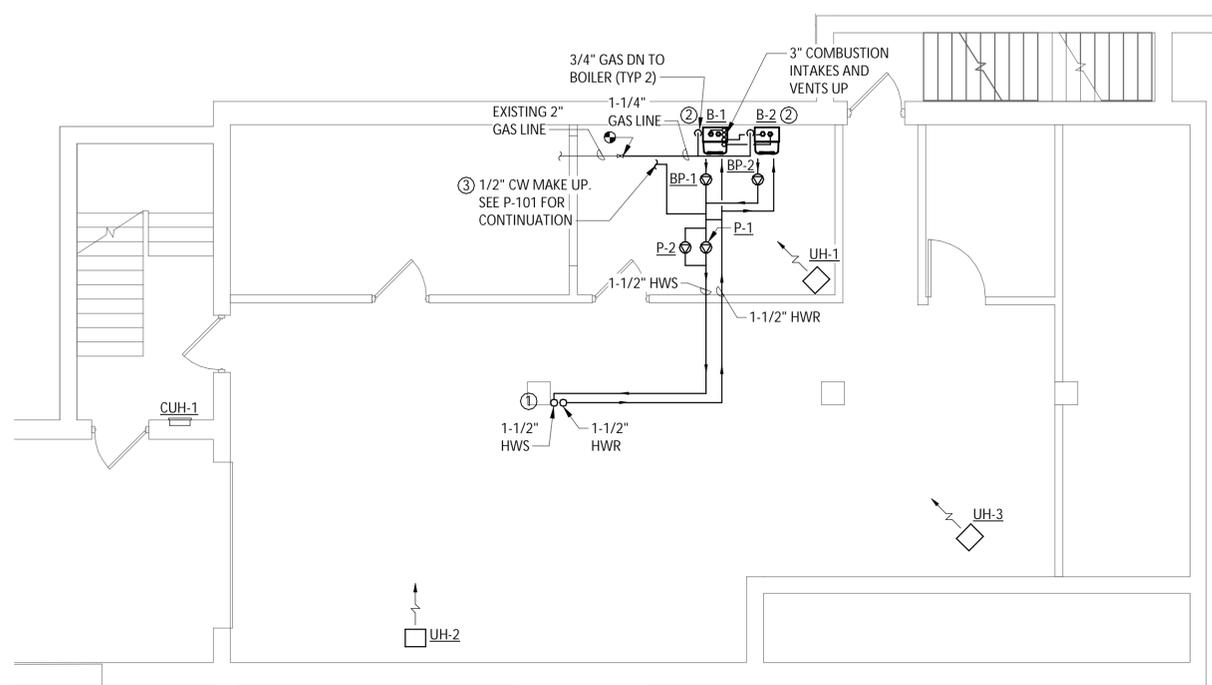
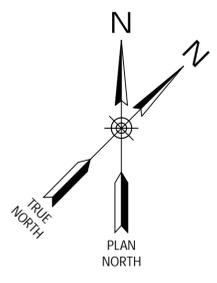
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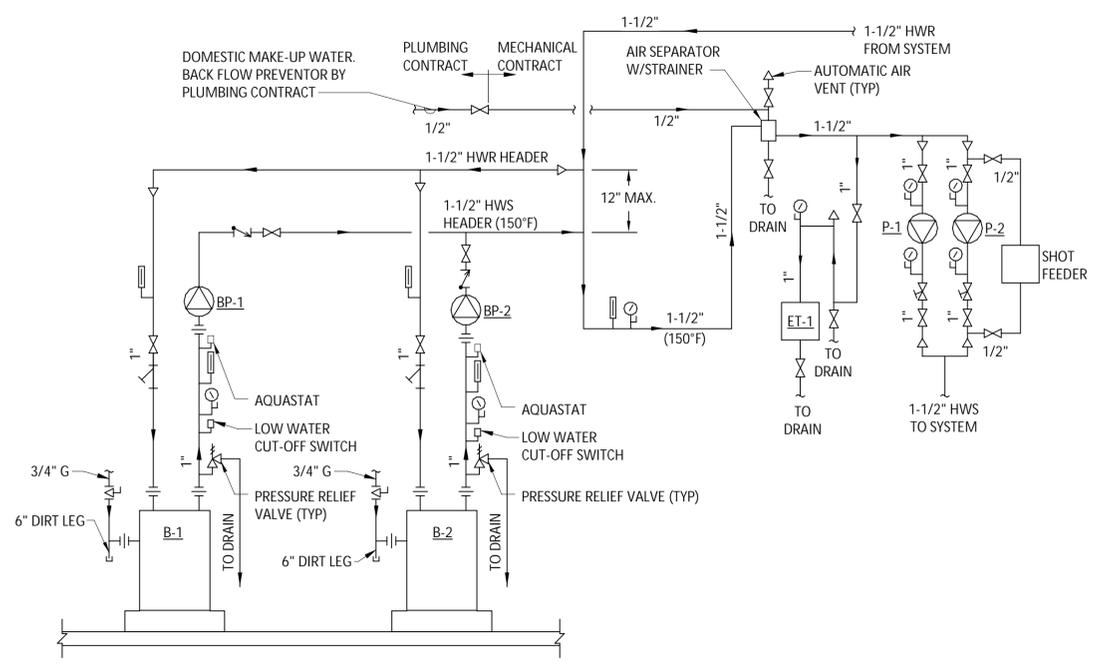


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Sheet Number	M103
Project Number	1753.008.001

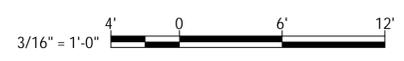


- KEY NOTES:**
- ① CORE DRILL THROUGH CEILING TO FLOOR ABOVE TO ACCOMMODATE NEW PIPING. FIRE CAULK PENETRATIONS.
 - ② NEW BOILERS ARE FLOOR MOUNTED. PROVIDE 6" CONCRETE EQUIPMENT PAD BELOW BOILERS.
 - ③ COORDINATE NEW COLD WATER MAKE-UP CONNECTION FOR BOILER SYSTEM WITH CONTRACT 1C.

BASEMENT HVAC PIPING PLAN
SCALE: 3/16" = 1'-0"



BOILER SYSTEM SCHEMATIC
NOT TO SCALE



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CITY OF MIDDLETOWN
NEW COURTHOUSE FACILITY
CONTRACT 1B - MECHANICAL CONSTRUCTION
BASEMENT HVAC PIPING PLAN
CITY OF MIDDLETOWN
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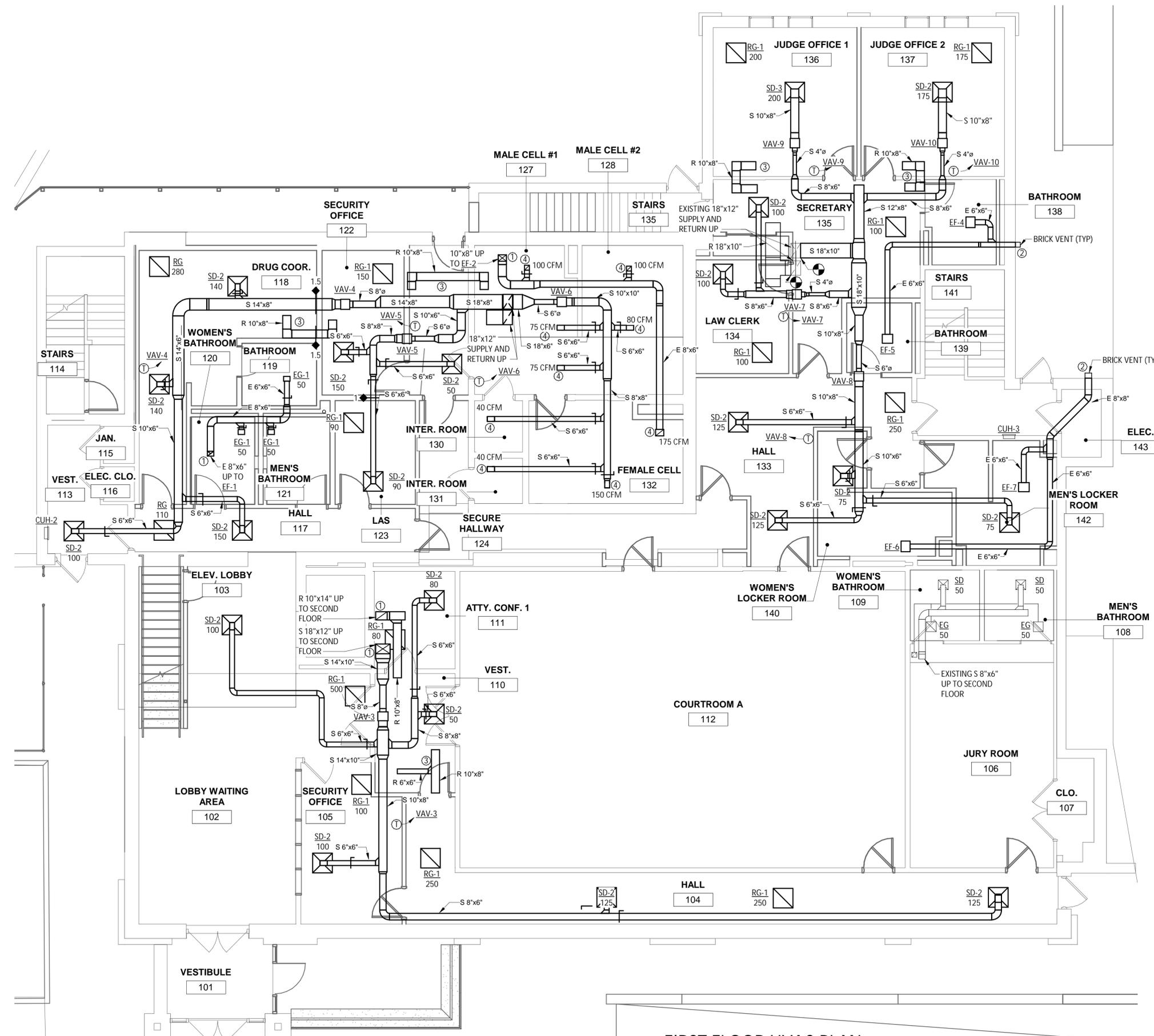
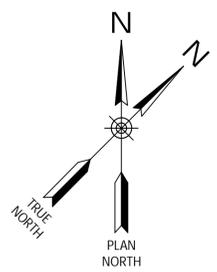
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Date	AUGUST, 2024
Scale	AS SHOWN
Sheet Number	M104
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- KEY NOTES:**
- ① SAW CUT THROUGH CEILING TO FLOOR ABOVE TO ACCOMMODATE NEW DUCT
 - ② COORDINATE NEW EXHAUST/BRICK VENT PENETRATIONS WITH CONTRACT 1A. SEE DETAIL ON SHEET M001.
 - ③ RETURN TRANSFER DUCT TO BE ACCOUSTICALLY LINED AND TERMINATED OPEN ENDED.
 - ④ TERMINATE DUCT WITH 45 DEGREE ELBOW DOWN OPEN ENDED ABOVE CEILING PANEL PERFORATION AREAS. COORDINATE EXACT LOCATIONS WITH CONTRACT 1A.

FIRST FLOOR HVAC PLAN
SCALE: 3/16" = 1'-0"

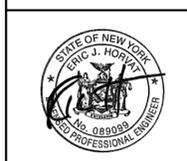


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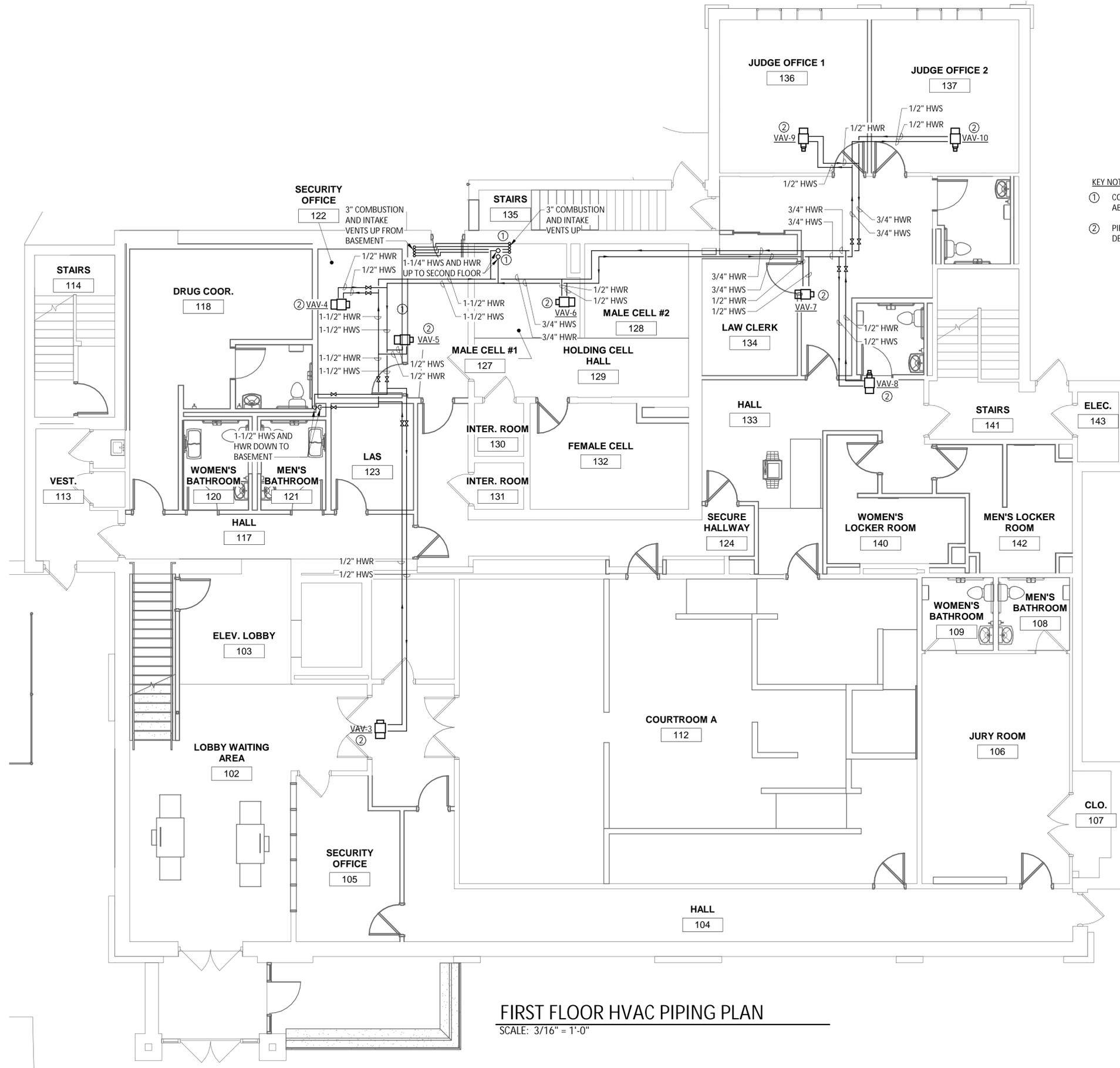
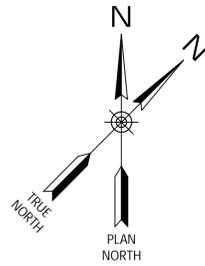
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CITY OF MIDDLETOWN
NEW COURTHOUSE FACILITY
CONTRACT 1B - MECHANICAL CONSTRUCTION
FIRST FLOOR HVAC PLAN
ORANGE COUNTY, NEW YORK

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Project Number: 1753.008.001



KEY NOTES:

- ① CORE DRILL THROUGH CEILING TO FLOOR ABOVE TO ACCOMMODATE NEW PIPING.
- ② PIPE VAV'S PER HOT WATER REHEAT COIL DETAIL ON SHEET M001.

FIRST FLOOR HVAC PIPING PLAN
 SCALE: 3/16" = 1'-0"

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REVISIONS

NO.	DESCRIPTION

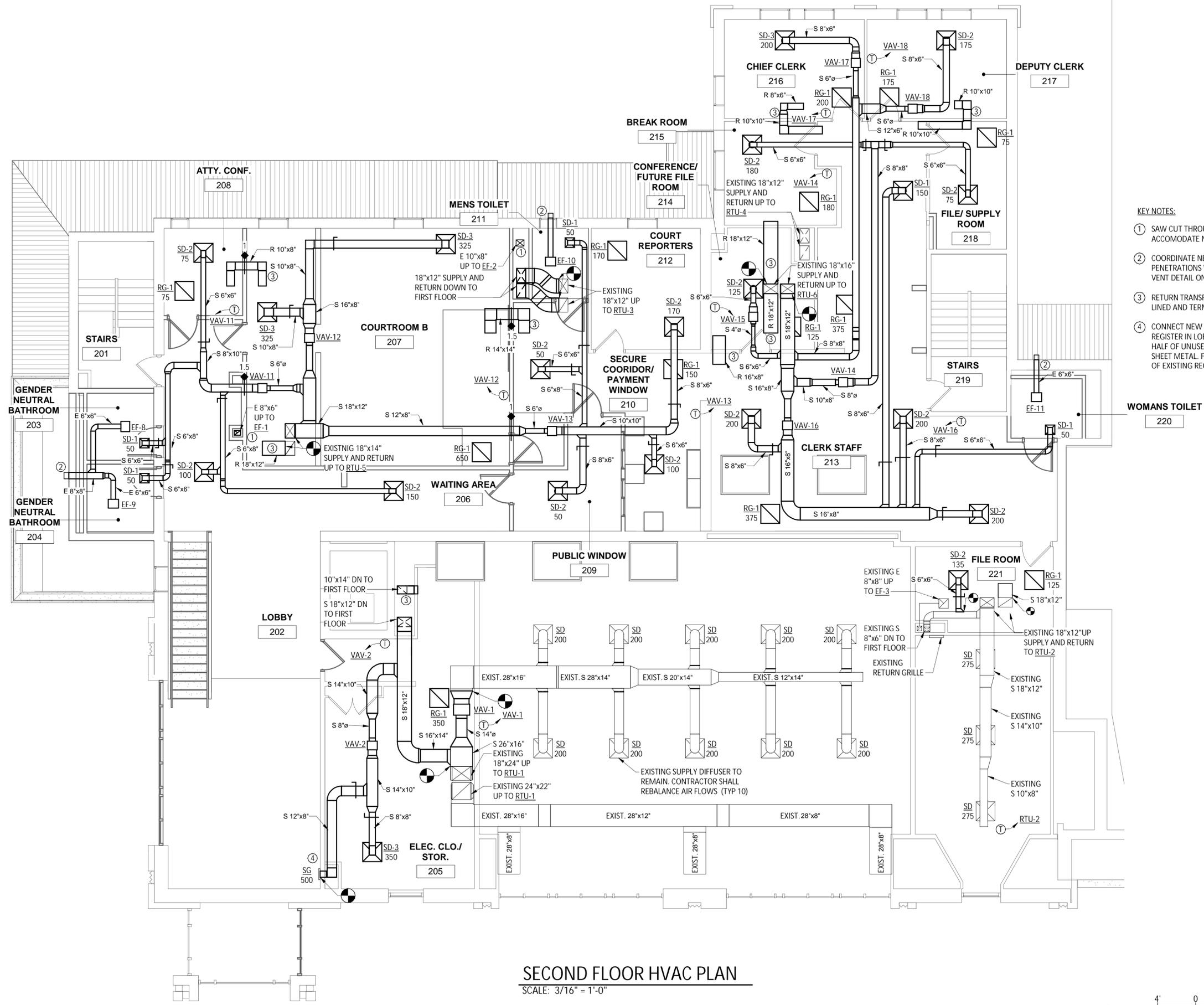
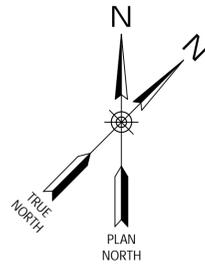
CITY OF MIDDLETOWN
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 CONTRACT 1B - MECHANICAL CONSTRUCTION
FIRST FLOOR HVAC PIPING PLAN
 ORANGE COUNTY, NEW YORK

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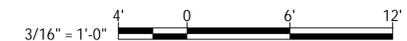


KEY NOTES:

- ① SAW CUT THROUGH CEILING TO FLOOR ABOVE TO ACCOMMODATE NEW DUCT.
- ② COORDINATE NEW EXHAUST/BRICK VENT PENETRATIONS WITH CONTRACT 1A. SEE BRICK VENT DETAIL ON SHEET M001
- ③ RETURN TRANSFER DUCT TO BE ACCOUSTICALLY LINED AND TERMINATED OPEN ENDED.
- ④ CONNECT NEW SUPPLY DUCT TO EXISTING REGISTER IN LOBBY WALL. BLOCK OFF BOTTOM HALF OF UNUSED REGISTER IN WALL CHASE USING SHEET METAL. FIELD VERIFY EXACT DIMENSIONS OF EXISTING REGISTER TO BE REUSED.

SECOND FLOOR HVAC PLAN

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



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REVISIONS	
2	1/31/23 ADD. 2

CITY OF MIDDLETOWN
 NEW COURTHOUSE FACILITY
 CONTRACT 1B - MECHANICAL CONSTRUCTION
 SECOND FLOOR HVAC PLAN
 ORANGE COUNTY, NEW YORK

B&L
 443 Electronics Parkway
 Liverpool, NY
 13088
Barton & Loguidice, D.P.C.

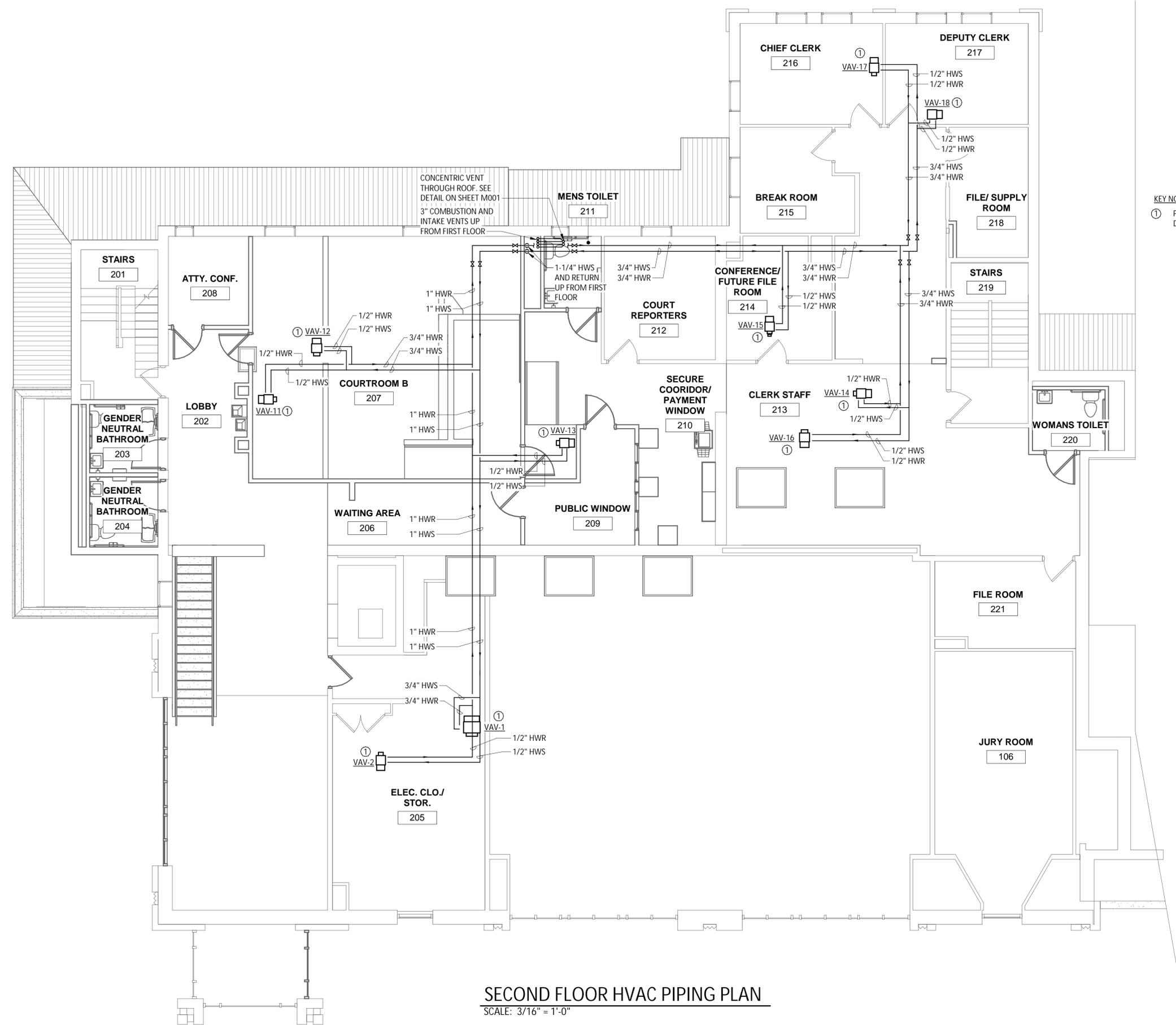
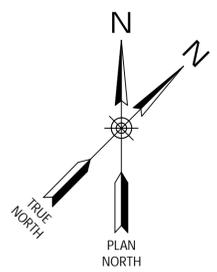


NYS EXP.: 11/30/2025
 Date: AUGUST, 2024
 Scale: AS SHOWN
 Sheet Number: M107
 Project Number: 1753.008.001

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Checked by: _____ Drawn by: RAD Designed by: RAD In Charge of: E/H



KEY NOTES:
① PIPE VAV'S PER HOT WATER REHEAT COIL
DETAIL ON SHEET M001.

SECOND FLOOR HVAC PIPING PLAN

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REVISIONS

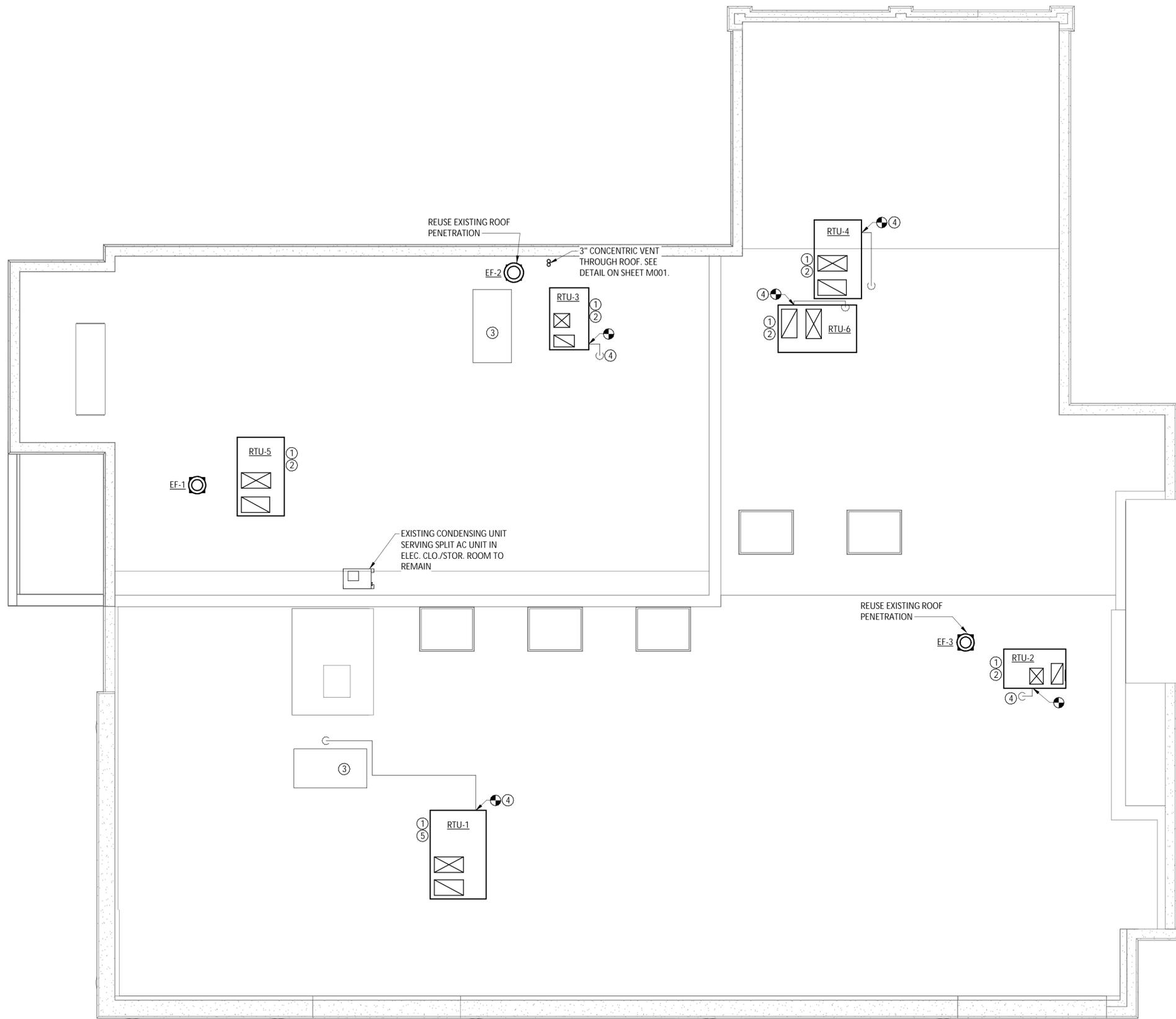
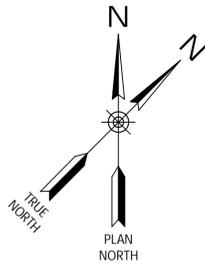
CITY OF MIDDLETOWN
NEW COURTHOUSE FACILITY
CONTRACT 1B - MECHANICAL CONSTRUCTION
SECOND FLOOR HVAC PIPING PLAN
CITY OF MIDDLETOWN
ORANGE COUNTY, NEW YORK

443 Electronics Parkway
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KEY NOTES:

- ① EXTEND NEW DUCT CONNECTIONS BETWEEN NEW ROOFTOP UNIT AND EXISTING DUCT RISERS. FIELD VERIFY EXACT DIMENSIONS BEFORE DUCT FABRICATION AND INSTALLATION. FURNISH AND INSTALL ADAPTER CURBS FOR ALL NEW UNITS. SEE TYPICAL ROOF EQUIPMENT/CURB DETAIL ON SHEET A204. COORDINATE ROOFTOP INSTALLATION WITH CONTRACT 1A.
- ② ADDITIVE BID ITEM NO. 1 – REMOVE THE EXISTING ROOFTOP UNITS WITH ASSOCIATED ROOFCURBS, AND FURNISH AND INSTALL NEW ROOFTOP UNITS. NEW ROOF CURBS SHALL BE PROVIDED BY CONTRACT 1B AND INSTALLED BY CONTRACT 1A.
- ③ OPENINGS FOR EXISTING ROOFTOP UNITS REMOVED AND NOT REPLACED TO BE INFILLED AND REPAIRED BY CONTRACT 1A. CONTRACT 1B TO COORDINATE ASSOCIATED WORK WITH CONTRACT 1A.
- ④ CONNECT EXISTING GAS LINE TO NEW ROOFTOP UNIT.
- ⑤ REMOVE THE EXISTING ROOFTOP UNIT WITH ASSOCIATED ROOFCURB, AND FURNISH AND INSTALL NEW ROOFTOP UNITS. CONTRACT 1B SHALL PROVIDE NEW ROOF CURB WITH INSTALLATION BY CONTRACT 1A.

ROOF HVAC PLAN
SCALE: 3/16" = 1'-0"

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CITY OF MIDDLETOWN
 NEW COURTHOUSE FACILITY
 CONTRACT 1B - MECHANICAL CONSTRUCTION
 ROOF HVAC PLAN
 ORANGE COUNTY, NEW YORK
 CITY OF MIDDLETOWN

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ROOFTOP UNIT SCHEDULE																
ITEM	SUPPLY AIR (CFM)	MIN. OUTSIDE AIR (CFM)	EXTERNAL STATIC (IN W.C.)	FAN DRIVE	FAN MOTOR HP	TOTAL COOLING CAP. (MBH)	SENSIBLE COOLING CAP. (MBH)	COOLING EAT (°F db/wb)	COOLING LAT (°F db/wb)	HEATING INPUT (MBH)	HEATING OUTPUT (MBH)	AIR TEMP RISE (°F db)	VOLTS	PHASE	MCA (AMPS)	DESIGN EQUIPMENT
RTU-2	960	200	.75	DIRECT	0.75	36.58	27.30	82.5/67.6	56.16/55.14	60	48	46.5	208	3	24	TRANE MODEL YHC037E
RTU-3	1280	570	1.00	DIRECT	1.0	50.81	34.22	80.5/68.1	55.74/55.22	60	49	35.7	208	3	30	TRANE MODEL YHC047E
RTU-4	975	400	1.00	DIRECT	0.75	36.00	27.27	81.2/66.5	55.03/54.17	60	48	45.8	208	3	24	TRANE MODEL YHC037E
RTU-5	1495	450	1.00	DIRECT	1.0	54.06	39.37	83.4/68.8	59.02/57.39	80	64	43.5	208	3	30	TRANE MODEL YHC047E
RTU-6	1555	250	1.00	DIRECT	1.0	51.89	41.10	81.0/65.5	56.53/54.24	80	64	38.4	208	3	30	TRANE MODEL YHC047E

- NOTES:
 1. PROVIDE SMOKE DETECTOR AND CO₂ SENSOR IN RETURN DUCT MAIN, WITH ASSOCIATED WIRING AND CONTROLS.
 2. PROVIDE ECONOMIZER FOR 100% OUTSIDE AIR MODE WITH DIFFERENTIAL ENTHALPY CONTROL AND TRANSMITTER, AND POWER EXHAUST.
 3. PROVIDE WITH R410A TYPE REFRIGERANT, CRANKCASE HEATER AND LOW AMBIENT CONTROL.
 4. PROVIDE MANUFACTURER SUPPLIED 24" ADAPTER CURB.

VARIABLE AIR VOLUME (VAV) SCHEDULE																
TAG	ASSOC. UNIT	AREA SERVED	ZONE	VAV BOX				HOT WATER REHEAT COIL							DESIGN BASIS	
				MAX CFM	MIN. CFM	NFCK SIZE (IN)	MAX AIR PD (IN WC)	LOAD (MBH)	EWT (°F)	LWT (°F)	EAT (°F)	LAT (°F)	FLOW RATE (GPM)	MAX WATER PD (FT H2O)		COIL ROWS
VAV-1	RTU-1	112	1	2000	570	12	0.69	31.71	150	130	55	106.3	3.18	0.56	2	TRANE VCVWF12
VAV-2	RTU-1	102, 202, 205	2	850	150	8	0.66	8.86	150	130	55	108.38	0.87	0.07	2	TRANE VCVWF08
VAV-3	RTU-1	103, 104, 105, 110, 111	3	580	105	8	0.36	6.43	150	130	55	111.44	0.64	0.04	2	TRANE VCVWF08
VAV-4	RTU-3	113, 117, 118	4	530	105	8	0.31	6.43	150	130	55	111.44	0.64	0.04	2	TRANE VCVWF08
VAV-5	RTU-3	122, 123, 124, 126	5	290	75	5	0.19	5.38	150	130	55	121.14	0.54	0.20	2	TRANE VCVWF05
VAV-6	RTU-3	127, 128, 129, 130, 131, 132	6	460	150	6	0.53	9.22	150	130	55	111.69	0.92	0.52	2	TRANE VCVWF06
VAV-7	RTU-4	134, 135	7	200	50	4	0.10	3.98	150	134.06	55	128.39	0.50	0.18	2	TRANE VCVWF04
VAV-8	RTU-4	133, 140, 142	8	400	225	6	0.43	12.2	150	130	55	104.99	1.22	0.86	2	TRANE VCVWF06
VAV-9	RTU-4	136	9	200	50	4	0.10	3.98	150	134.06	55	128.39	0.50	0.18	2	TRANE VCVWF04
VAV-10	RTU-4	137	10	175	50	4	0.09	3.98	150	134.06	55	128.39	0.50	0.18	2	TRANE VCVWF04
VAV-11	RTU-5	203, 204, 206, 208	11	425	150	6	0.47	9.22	150	130	55	111.69	0.92	0.52	2	TRANE VCVWF06
VAV-12	RTU-5	207	12	650	275	8	0.43	13.67	150	130	55	100.85	1.37	0.16	2	TRANE VCVWF08
VAV-13	RTU-5	209, 210, 211, 212	13	420	75	6	0.46	5.38	150	130	55	121.14	0.54	0.20	2	TRANE VCVWF08
VAV-14	RTU-6	215, 218	14	255	50	5	0.16	3.98	150	134.06	55	128.39	0.50	0.18	2	TRANE VCVWF05
VAV-15	RTU-6	214	15	125	50	4	0.06	3.98	150	134.06	55	128.39	0.50	0.18	2	TRANE VCVWF04
VAV-16	RTU-6	213, 220	16	800	125	8	0.60	7.47	150	130	55	110.10	0.75	0.05	2	TRANE VCVWF08
VAV-17	RTU-6	216	17	200	50	4	0.10	3.98	150	134.06	55	128.39	0.50	0.18	2	TRANE VCVWF04
VAV-18	RTU-6	217	18	175	50	4	0.09	3.98	150	134.06	55	128.39	0.50	0.18	2	TRANE VCVWF04

- NOTES:
 1. PROVIDE INSULATED ACCESS DOOR WITHIN UNIT FOR INSPECTION AND SERVICE OF DAMPER
 2. FURNISH AND INSTALL VAV UNIT, REHEAT COIL, PIPING, VALVES, ALL CONTROL EQUIPMENT (INCLUDING ACTUATOR, SENSORS & LOW VOLTAGE WIRING), AND SUPPORTS.
 3. PROVIDED UNIT MOUNTED DISCONNECT

DIFFUSER AND GRILLE SCHEDULE							
TYPE	DESCRIPTION	MAX SONES	BLOW PATTERN	FACE SIZE (IN)	NECK SIZE (IN)	AIR FLOW (CFM)	BASIS OF DESIGN
SD-1	SUPPLY DIFFUSER	-	4-WAY	12 x 12	4Ø	0-70	TITUS TMS
SD-2	SUPPLY DIFFUSER	19	4-WAY	24 x 24	6Ø	0-180	TITUS TMS
SG-1	SUPPLY GRILLE	22	4-WAY	14 x 14	12 x 12	0-500	TITUS 300RL
RG-1	EGGCRATE RETURN GRILLE	20	-	24 x 24	-	0-650	TITUS 50F
EG-1	EXHAUST GRILLE	19	-	10 x 8	8 x 6	0-175	TITUS 350R

- REMARKS:
 1. BALANCE ALL DUCT BRANCHES TO CFM VALUE SHOWN.
 2. REFER TO PLANS FOR QUANTITIES, AIR FLOW. ALL BRANCH DUCT CONNECTING DIFFUSER TO MAIN SHALL BE THE SAME SIZE AS THE DIFFUSER NECK.
 3. VERIFY MOUNTING FRAME. REFER TO REFLECTED CEILING PLAN FOR LOCATIONS AND CEILING TYPE. COORDINATE WITH OTHER CEILING MOUNTED EQUIPMENT.
 4. PROVIDE WITH OPPOSED BLADE DAMPER, ADJUSTABLE WITHOUT DISASSEMBLY.
 5. PROVIDE FACTORY SUPPLIED PLENUM FOR LINEAR DIFFUSER.

BOILER (B) SCHEDULE												
TAG	LOCATION	FUEL	MAXIMUM INPUT (MBH)	OUTPUT AT MAX. CAPACITY (MBH)	WATER			COMBUSTION EFFICIENCY	RELIEF VALVE SETTING (PSI)	VOLTS/PHASE/ HZ	FULL LOAD AMPS	DESIGN EQUIPMENT
					FLOW RATE (GPM)	ENT./LVG. TEMP. (°F)	WATER CONTENT (GAL)					
B-1	BASEMENT	NG	110	101	7.5	120/150	2.5	95.1%	30	120/1	15	WEIL MCLAIN EVG-110
B-2	BASEMENT	NG	110	101	7.5	120/150	2.5	95.1%	30	120/1	15	WEIL MCLAIN EVG-110

- NOTES:
 1. PROVIDE COMPLETE WITH LOW-WATER CUTOFF, MANUAL RESET HIGH LIMIT AQUASTAT, PRESSURE/TEMPERATURE GAUGE AND DRAIN VALVE.
 2. PROVIDE COMPLETE WITH ASME COMPLIANT PRESSURE RELIEF VALVE DESIGNED FOR THE BOILER OUTPUT CAPACITY.
 3. PROVIDE DISCONNECT WITH THERMAL OVERLOAD PROTECTION.
 4. HVAC CONTRACT SHALL FURNISH AND INSTALL UNIT AND ALL CONTROL EQUIPMENT, INCLUDING SENSORS, LOW VOLTAGE WIRING AND CONDUIT. LINE VOLTAGE WIRING (120V AND ABOVE) BY ELECTRICAL CONTRACT.

PUMP SCHEDULE										
TAG	SERVICE	MOTOR			PUMP RPM	FLUID	FLOW (GPM)	HEAD (FT WC)	TYPE	BASIS OF DESIGN
		HP	VOLTS	PHASE						
BP-1	BOILER B-1	1/8	115	1	3250	WATER	7.2	10	INLINE	TACO ECM OO15e
BP-2	BOILER B-2	1/8	115	1	3250	WATER	7.2	10	INLINE	TACO ECM OO15e
P-1	HOT WATER LOOP	1/2	115	1	1725	WATER	18	20	INLINE (CLOSE COUPLED)	BELL & GOSSETT e-90 1.25AAB
P-2	HOT WATER LOOP	1/2	115	1	1725	WATER	18	20	INLINE (CLOSE COUPLED)	BELL & GOSSETT e-90 1.25AAB

- NOTES:
 1. PROVIDE WITH COMBINATION MOTOR STARTER/DISCONNECT AND INTERLOCK OPERATION WITH ASSOCIATED BOILER.
 2. RATED FOR 125PSI MAXIMUM WORKING PRESSURE AND 225°F MAXIMUM OPERATING TEMPERATURE.
 3. FURNISH AND INSTALL UNIT AND ALL CONTROL EQUIPMENT, INCLUDING SENSORS, LOW VOLTAGE WIRING AND CONDUIT.

EXPANSION TANK (ET) SCHEDULE								
TAG	CONN. SIZE (IN)	SYSTEM	TANK TYPE	TANK VOLUME (GAL)	TANK ACCEPTANCE (GAL)	CHARGE PRESSURE (PSIG)	ORIENTATION	BASIS OF DESIGN
ET-1	3/4	HOT WATER	BLADDER	10	10	12	VERTICAL, FLOOR MOUNTED	BELL & GOSSETT B-35

- NOTES:
 1. TANK SHALL BE STEEL CONSTRUCTION WITH HEAVY DUTY BUTYL RUBBER DIAPHRAGM & FORGED STEEL CONNECTION FITTINGS.
 2. EXPANSION TANK TO BE DESIGNED, CONSTRUCTED AND STAMPED PER ASME SECTION VIII, DIVISION 1.
 3. TANK SHALL BE RATED FOR MAXIMUM WORKING PRESSURE OF 125 PSIG AND MAXIMUM WORKING TEMPERATURE OF 240°F.

EXHAUST FAN SCHEDULE											
TAG	AREA SERVED	LOCATION	CFM	E.S.P. (IN W.G.)	DRIVE	RPM	MOTOR			DESIGN EQUIPMENT	NOTES
							WATTS	VOLTS	PHASE		
EF-1	119, 120, 121	ROOF	150	.35	DIRECT	850	13	115	1	GREENHECK G-070-D	1,3,4
EF-2	127, 128, 129	ROOF	375	.35	DIRECT	850	13	115	1	GREENHECK G-095-VG	1,3,4
EF-3	108, 109	ROOF	100	.25	DIRECT	1,550	13	115	1	GREENHECK G-060-D	1,3,4
EF-4	138	CEILING	50	.25	DIRECT	850	13	115	1	GREENHECK SP-A70	1,2,4
EF-5	139	CEILING	90	.25	DIRECT	950	17	115	1	GREENHECK SP-A70	1,2,4
EF-6	140	CEILING	50	.25	DIRECT	850	13	115	1	GREENHECK SP-A70	1,2,4
EF-7	142	CEILING	50	.25	DIRECT	850	13	115	1	GREENHECK SP-A70	1,2,4
EF-8	203	CEILING	110	.25	DIRECT	1,100	21	115	1	GREENHECK SP-A70	1,2,4
EF-9	204	CEILING	170	.25	DIRECT	1,400	48	115	1	GREENHECK SP-A70	1,2,4
EF-10	211	CEILING	50	.25	DIRECT	850	13	115	1	GREENHECK SP-A70	1,2,4
EF-11	220	CEILING	50	.25	DIRECT	850	13	115	1	GREENHECK SP-A70	1,2,4

- NOTES:
 1. PROVIDE COMBINATION STARTER/DISCONNECT SWITCH WITH THERMAL OVERLOAD PROTECTION.
 2. PROVIDE BACKDRAFT DAMPER, ALUMINUM BIRD SCREEN, WALL COLLAR, MOTORIZED SHUTTER AND SHUTTER GAURD.
 3. PROVIDE BACKDRAFT DAMPER, ALUMINUM BIRD SCREEN AND MANUFACTURERS ROOF CURB.
 4. FAN SHALL RUN CONTINUOUSLY WHILE BUILDING IS OCCUPIED.

ELECTRIC UNIT HEATER (UH) SCHEDULE								
TAG	LOCATION	MOUNTING TYPE	CAPACITY (KW)	VOLTS	PHASE	FULL LOAD AMPS	AIR FLOW (CFM)	DESIGN EQUIPMENT
UH-1	BASEMENT	CEILING	3	208	1	14.4	380	MODINE HER 30
UH-2	BASEMENT	CEILING	5	208	1	24.5	380	MODINE HER 50
UH-2	BASEMENT	CEILING	5	208	1	24.5	380	MODINE HER 50

- NOTES:
 1. FURNISH WITH FUSED DISCONNECT SWITCH.
 2. PROVIDE MOUNTING BRACKETS AND SUPPORTS AS NECESSARY, FINISH TO MATCH UNIT HOUSING.
 3. PROVIDE UNIT MOUNTED THERMOSTAT.

CABINET UNIT HEATER (CUH) SCHEDULE								
TAG	AIR FLOW (CFM)	CAP. (BTUH)	KW	TEMP. RISE (°F)	NO. OF FANS	ELEC.		BASIS OF DESIGN
						VOLTS	PHASE	
CUH-1	100	6,820	4.8	50	1	208	1	QMARK LFK488F
CUH-2	100	5,115	4.8	50	1	208	1	QMARK LFK488F
CUH-2	100	5,115	4.8	50	1	208	1	QMARK LFK488F

- NOTES:
 1. PROVIDE UNIT MOUNTED TAMPERPROOF THERMOSTAT AND DISCONNECT SWITCH.
 2. PROVIDE WITH UNIT MOUNTED DAY/NIGHT RELAY AND SURFACE MOUNTING ADAPTER.

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