

DESIGN TEAM INFORMATION:

MECHANICAL/PLUMBING ENGINEER  
SCHMIDT CONSULTING GROUP, INC.  
901 W. GARDEN ST.  
PENSACOLA, FL 32502

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ELECTRICAL ENGINEER  
SCHMIDT CONSULTING GROUP, INC.  
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PENSACOLA, FL 32502

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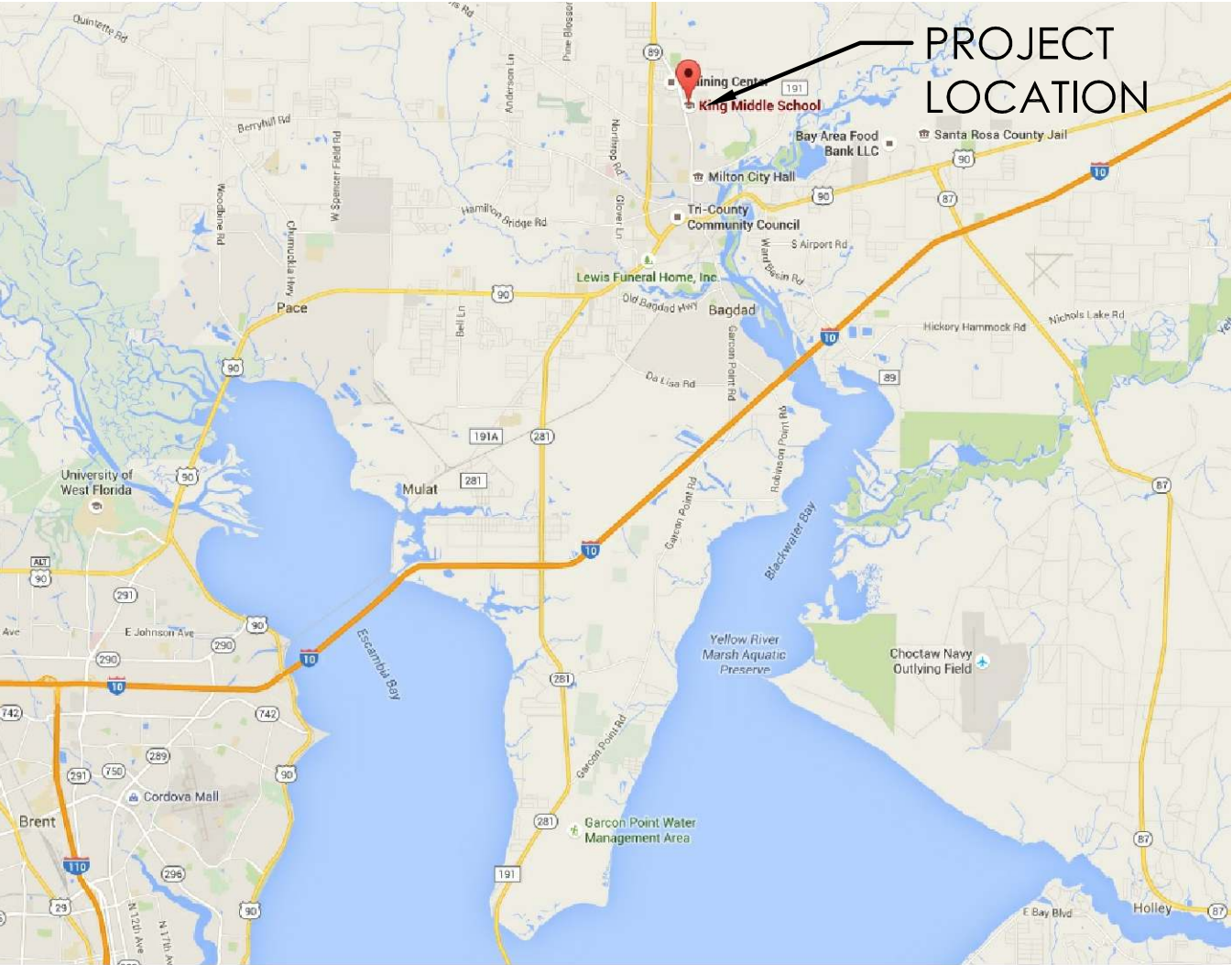
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SCHOOL BOARD OF  
SANTA ROSA COUNTY  
SCHOOL DISTRICT

OWNER CONTACTS:  
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VICINITY MAP  
NOT TO SCALE

HVAC RENOVATION  
PHASE B

KING MIDDLE SCHOOL  
5928 STEWART STREET  
MILTON, FL  
(850) 916-4100  
PHASE 2 - DESIGN REVIEW SET

DECEMBER 5, 2018



**SCHMIDT**  
CONSULTING GROUP, INC.  
MECHANICAL - ELECTRICAL - STRUCTURAL  
COMMUNICATIONS - INDUSTRIAL  
FLORIDA LICENSE NUMBER 05371  
901 W. Garden St., Pensacola, FL 32502  
P: 850-438-0050 • F: 850-432-8631

SEAL

NOT FOR CONSTRUCTION

REVISION NUMBER	REVISION DESCRIPTION				

KING MIDDLE SCHOOL  
HVAC RENOVATION PH. B  
SANTA ROSA COUNTY SCHOOL DISTRICT

DESIGNED BY:  
WJJ

DRAWN BY:  
CAP

CHECKED BY:  
WJJ

DATE:  
DECEMBER 5, 2018

SHEET TITLE:

TITLE SHEET

SHEET:

G001





HATCH LEGEND

AREA UNDER  
PHASE B RENOVATION

APPROX. TOTAL = 40,825 SF

1

HVAC RENOVATION PHASE B AREA SCOPE OF WORK

32'0'32'64'

SCALE: 1/32"=1'-0"

DRAWING INDEX				
SHEET	OF	SHEET	SHEET#	SHEET NAME
GENERAL				
1	OF	49	G001	TITLE SHEET
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4	OF	49	G201	PARTIAL CEILING DEMOLITION PLAN
5	OF	49	G202	PARTIAL CEILING DEMOLITION PLAN
6	OF	49	G203	PARTIAL CEILING DEMOLITION PLAN
7	OF	49	G204	PARTIAL CEILING DEMOLITION PLAN
8	OF	49	G205	PARTIAL CEILING DEMOLITION PLAN
9	OF	49	G301	PARTIAL CEILING PLAN
10	OF	49	G302	PARTIAL CEILING PLAN
11	OF	49	G303	PARTIAL CEILING PLAN
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13	OF	49	G305	PARTIAL CEILING PLAN
14	OF	49	G401	GENERAL DETAILS
MECHANICAL				
15	OF	49	M001	MECHANICAL LEGEND, NOTES AND ABBREVIATIONS
16	OF	49	M002	MECHANICAL NOTES
17	OF	49	M003	MECHANICAL SCHEDULES
18	OF	49	M004	MECHANICAL SCHEDULES
19	OF	49	M101	MECHANICAL DEMOLITION ROOF PLAN
20	OF	49	M102	MECHANICAL ROOF PLAN
21	OF	49	M201	PARTIAL MECHANICAL DEMOLITION PLAN
22	OF	49	M202	PARTIAL MECHANICAL DEMOLITION PLAN
23	OF	49	M203	PARTIAL MECHANICAL DEMOLITION PLAN
24	OF	49	M204	PARTIAL MECHANICAL DEMOLITION PLAN
25	OF	49	M205	PARTIAL MECHANICAL DEMOLITION PLAN
26	OF	49	M206	PARTIAL MECHANICAL DEMOLITION PLAN
27	OF	49	M207	PARTIAL MECHANICAL DEMOLITION PLAN
28	OF	49	M301	PARTIAL MECHANICAL PLAN
29	OF	49	M302	PARTIAL MECHANICAL PLAN
30	OF	49	M303	PARTIAL MECHANICAL PLAN
31	OF	49	M304	PARTIAL MECHANICAL PLAN
32	OF	49	M305	PARTIAL MECHANICAL PLAN
33	OF	49	M306	PARTIAL MECHANICAL PLAN
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35	OF	49	M401	PARTIAL MECHANICAL PIPING PLAN
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37	OF	49	M403	PARTIAL MECHANICAL PIPING PLAN
38	OF	49	M404	PARTIAL MECHANICAL PIPING PLAN
39	OF	49	M405	PARTIAL MECHANICAL PIPING PLAN
40	OF	49	M501	MECHANICAL DETAILS
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43	OF	49	M504	MECHANICAL DETAILS
44	OF	49	M601	MECHANICAL CONTROLS
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49	OF	49	M606	MECHANICAL CONTROLS

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HVAC RENOVATION PH. B

SANTA ROSA COUNTY SCHOOL DISTRICT

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WJJ

DRAWN BY:  
AL

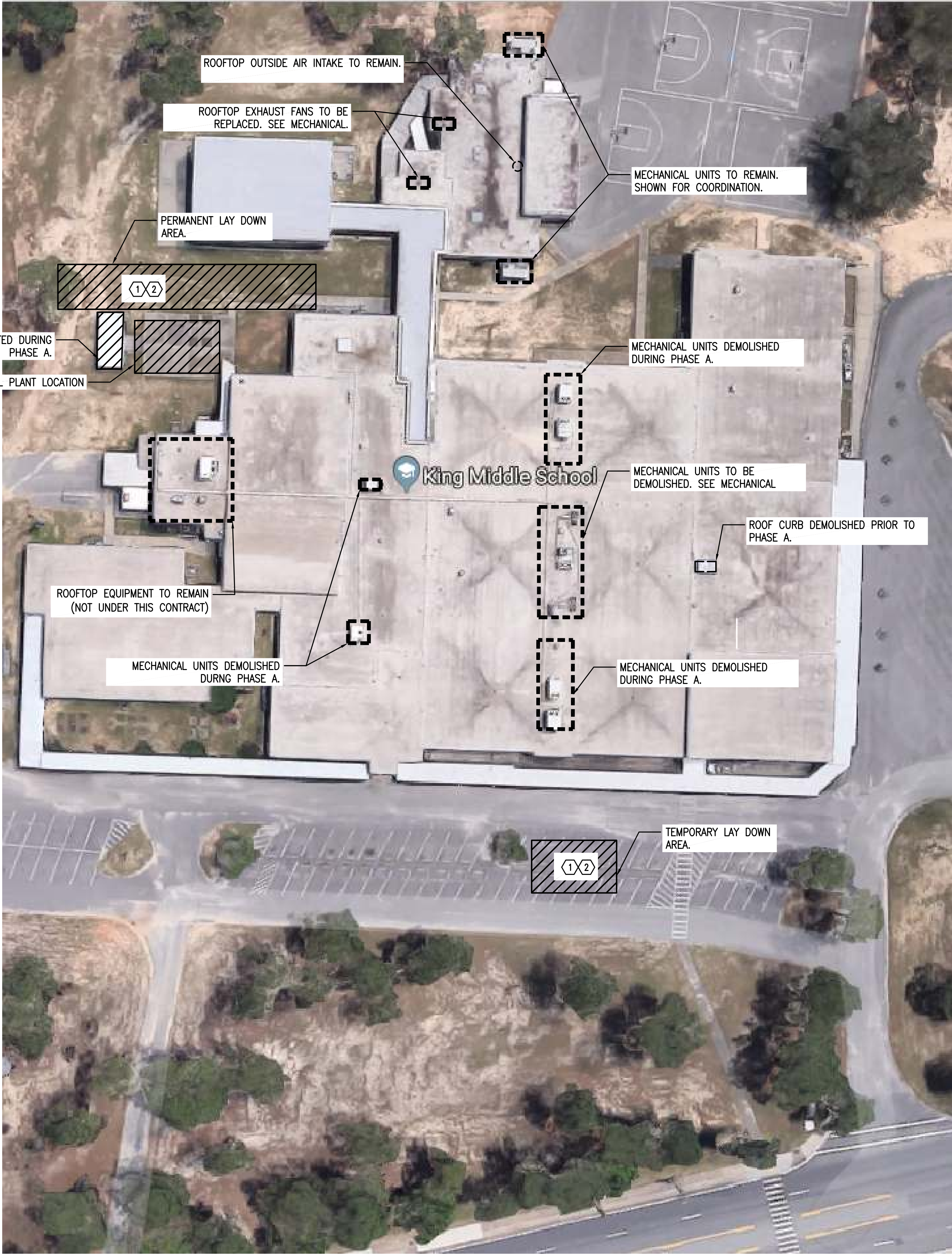
CHECKED BY:  
WJJ

DATE:  
DECEMBER 5, 2018

SHEET TITLE:  
DRAWING  
INDEX AND  
PHASE B AREA  
SCOPE OF WORK

SHEET:  
G002





SHEET NOTES

- 1 PROVIDE LAY DOWN AREAS WITH TEMPORARY SAFETY FENCING.
- 2 REPAIR EXISTING AREA AS REQUIRED TO MATCH ORIGINAL.



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SHEET TITLE:  
GENERAL SITE  
CONSTRUCTION  
INFORMATION

SHEET:  
G003



ABBREVIATIONS

ACD	AT
AD	AUTOMATIC CONTROL DAMPER
AFF	ACCESS DOOR
AS	ABOVE FINISHED FLOOR
ASHRAE	AIR SEPARATOR
	AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR CONDITIONING ENGINEERS
B	BOILER
BD	BELT DRIVE
BMS	BUILDING MANAGEMENT SYSTEM
BP	BOILER PUMP –PRIMARY LOOP
CD	CEILING DIFFUSER
CF	CHEMICAL FEEDER
CHWS	CHILLED WATER PIPING SUPPLY
CHWR	CHILLED WATER PIPING RETURN
CHWP	CHILLED WATER PUMP
CFM	CUBIC FEET PER MINUTE
COAC	CLEANOUT ABOVE CEILING
CONT	CONTINUOUS
COP	COEFFICIENT OF PERFORMANCE
DAC	DUCTLESS SPLIT DX AIR CONDITIONING UNIT
DCU	DUCTLESS SPLIT DX CONDENSING UNIT
DD	DIRECT DRIVE
DDC	DIRECT DIGITAL CONTROL
DPS	DIFFERENTIAL PRESSURE SENSOR
DPT	DEW POINT TEMPERATURE
DWGS	DRAWINGS
EA	EXHAUST AIR
EAL	EXHAUST AIR LOUVER
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EL	ELEVATION
EMCS	ENERGY MANAGEMENT AND CONTROL SYSTEM
ENT	ENTERING
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
FD	FIRE DAMPER
FPM	FEET PER MINUTE
GI	GRAVITY INTAKE
GR	GRAVITY RELIEF
HD	HUB DRAIN (SEE SHEET M002)
HP	HORSEPOWER
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
HWP	HOT WATER PUMP
MAX	MAXIMUM
MCP	MODULAR CENTRAL PLANT
MIN	MINIMUM
MMS	MODULE MANAGEMENT SYSTEM
MVD	MANUAL VOLUME DAMPER
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NO	NORMALLY OPEN
NC	NORMALLY CLOSED
OA	OUTSIDE AIR
OAU	OUTSIDE AIR UNIT
O.C.	ON CENTER
PPM	PARTS PER MILLION
PRV	PRESSURE REDUCING VALVE
P/T	PRESSURE/TEMPERATURE
RA	RETURN AIR
SA	SUPPLY AIR
SD	SMOKE DETECTOR
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SF	SUPPLY FAN
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION
SPT	STATIC PRESSURE TRANSMITTER
T'STAT	THERMOSTAT
TT	TEMPERATURE TRANSMITTER
TSP	TOTAL STATIC PRESSURE
TYP.	TYPICAL
U/G	UNDERGROUND
W/	WITH
W.G.	WATER GAUGE
WCC	WATER COOLED CHILLER

LEGEND

	POSITIVE PRESSURE SUPPLY DUCT TURNING UP		ELBOW TURN UP
	NEGATIVE PRESSURE RETURN OR EXHAUST DUCT TURNING UP		ELBOW TURN DOWN
	POSITIVE PRESSURE SUPPLY DUCT TURNING DOWN		CONNECTION, BOTTOM
	NEGATIVE PRESSURE RETURN OR EXHAUST DUCT TURNING DOWN		CONNECTION, TOP
	RECTANGULAR DUCT SIZE. FIRST SIZE LISTED IS SIDE SHOWN IN PLANS.		CHILLED WATER SUPPLY PIPING
	EXTERNALLY INSULATED DUCTWORK		CHILLED WATER RETURN PIPING
	EXISTING DUCTWORK TO REMAIN		HEATING WATER SUPPLY PIPING
	EXISTING DUCTWORK TO BE DEMOLISHED		HEATING WATER RETURN PIPING
	EXTERNALLY INSULATED ROUND FLEXIBLE DUCTWORK		CONDENSER WATER SUPPLY PIPING
	DUCT ELBOW WITH TURNING VANES		CONDENSER WATER RETURN PIPING
	RADIUSED DUCT ELBOW		NEW UNDERGROUND PIPING
	FLEXIBLE DUCT CONNECTION		CONDENSATE DRAIN PIPING
	MANUAL VOLUME BALANCING DAMPER		GATE VALVE
	TRANSITION		BALL VALVE
	FLEX DUCT TAKE OFF WITH MVD		BUTTERFLY VALVE
	BRANCH DUCT TAKEOFF WITH MVD		SWING CHECK VALVE
	RETURN OR SUPPLY DEVICE WITH MVD DIRECTLY BELOW MAIN TRUNK DUCT		SPRING CHECK VALVE
	TEE WITH TURNING VANES		PRESSURE REDUCING VALVE
	MOTORIZED DAMPER		PRESSURE RELIEF VALVE, PIPE FULL SIZE DISCHARGE TO FLOOR DRAIN.
	FIRE DAMPER		CIRCUIT SETTER
	EQUIPMENT TAG		TRIPLE DUTY VALVE
	SHEET NOTE		AUTOMATIC FLOW CONTROL VALVE
	THERMOSTAT MOUNTED AT 56" AFF OR TO MATCH EXISTING. ('1' INDICATES AHU OR FCU OR BCU CONTROLLED). PROVIDE LOCKABLE COVER WITH USER OVERRIDE.		2-WAY CONTROL VALVE
	SMOKE DETECTOR (PROVIDED BY DIVISION 26, INSTALLED BY DIVISION 23 AND WIRED BY DIVISION 26).		3-WAY CONTROL VALVE
	UNDER CUT DOOR 3/4"		COMBINATION VENTURI AND BALL VALVE WITH MEMORY STOP FOR FLOW BALANCING AND SHUT OFF SERVICE
	CONNECT TO EXISTING		MULTI-TURN BALANCING VALVE
	HVAC EQUIPMENT WITH CLEARANCE		UNION
			GLOBE VALVE
			THERMAL EXPANSION VALVE
			TRIPLE DUTY VALVE
			ANGLE VALVE
			SOLENOID VALVE
			BACKPRESSURE RELIEF OR SAFETY VALVE
			BACKPRESSURE REGULATOR (SELF-CONTAINED)
			BACKPRESSURE REGULATOR (EXTERNAL PRESSURE)
			FLEXIBLE PIPE CONNECTOR
			COMBINATION PRESSURE AND TEMPERATURE TEST PLUG WITH EXTENDED NECK AND CAP
			STRAINER WITH BLOW DOWN GATE VALVE FULL SIZE OF STRAINER AND 3/4" HOSE END CONNECTION WITH CAP
			MANUAL AIR VENT WITH 1/2" BALL VALVE. ROUTE 1/2" SOFT COPPER TUBING FROM DISCHARGE TO FLOOR DRAIN UNLESS OTHERWISE NOTED.

GENERAL MECHANICAL NOTES

- THE CONTRACTOR IS TO COORDINATE WITH OTHER TRADES REQUIRED OPENINGS IN WALLS, FOUNDATIONS, FLOORS, AND ROOFS.
- OUTSIDE AIR INLETS TO BE LOCATED A MINIMUM OF 10 FT FROM ANY EXHAUST AIR OUTLET OR PLUMBING VENT STACK. FIELD COORDINATE WITH EXISTING CONDITIONS.
- THE CONTRACTOR TO VERIFY MECHANICAL EQUIPMENT LOCATIONS AND BE RESPONSIBLE FOR ALL RELATED CLEARANCES IN THE FIELD. PROVIDE ADEQUATE MAINTENANCE CLEARANCE AROUND EACH PIECE OF EQUIPMENT PER THE MANUFACTURER'S RECOMMENDATIONS. PROVIDE CLEARANCE IN FRONT OF ELECTRICAL PANELS AND OTHER ELECTRICAL EQUIPMENT PER THE NATIONAL ELECTRICAL CODE REQUIREMENTS. COORDINATE WITH THE ELECTRICAL AND GENERAL CONTRACTORS IN THE FIELD.
- PROVIDE WATER PROOF SEALING OF PIPE AND DUCT PENETRATIONS OF EXTERIOR WALLS, FLOORS, AND/OR ROOF.
- THE PIPING SYSTEM IS TO BE FLUSHED UNTIL CLEAN BEFORE EQUIPMENT CONNECTION.
- PIPING PENETRATING THROUGH INTERIOR WALLS IS TO BE SLEEVED.
- PIPING SHOWN ON THESE DRAWINGS IS DIAGRAMMATIC. ARRANGE IN A NEAT AND ORDERLY MANNER.
- THE CONTRACTOR IS TO COORDINATE EXISTING FLOOR DRAIN LOCATIONS IN MECHANICAL ROOMS WITH ANY EQUIPMENT LOCATED IN THE MECHANICAL ROOM.
- ALL DUCTWORK AND PIPING PENETRATING THROUGH RATED WALLS TO BE FIRE STOPPED. PENETRATIONS THROUGH FIRE RATED FLOORS AND WALLS ARE TO BE FIRE SEALED SO AS TO MAINTAIN FLOOR OR WALL INTEGRITY IN THE EVENT OF A FIRE. PENETRATIONS OF FIREWALLS, CEILINGS, FLOORS, ETC. FOR PIPING TO BE UL LISTED FIRESTOPS AND SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION. CONTRACTOR TO OBTAIN MANUFACTURER SHOP DRAWINGS AT JOBSITE FOR PENETRATIONS.
- VERIFY COLLAR SIZES ON ALL EQUIPMENT INLETS AND OUTLETS. TRANSITION DUCTWORK AS NECESSARY. EXTERNALLY INSULATE ALL TRANSITIONS AT EQUIPMENT CONNECTIONS.
- INSTALL EQUIPMENT AND DUCTWORK TO MANUFACTURERS RECOMMENDED CLEARANCES.
- PROVIDE FLEXIBLE DUCT, PIPE CONNECTIONS, AND VIBRATION ISOLATORS FOR INTERNALLY ISOLATED UNITS.
- DO NOT MOUNT DISCONNECT SWITCHES ON HVAC EQUIPMENT EXCEPT AS RECOMMENDED BY MANUFACTURER.
- ALL NEW ROUND FLEXIBLE DUCT TO BE FACTORY PRE-INSULATED. MAXIMUM LENGTH OF ANY FLEXIBLE DUCT RUNOUT TO BE 6'. WHERE LENGTH REQUIRED EXCEEDS 6', INSTALL EXTERNALLY INSULATED ROUND SNAPLOCK DUCT FOR BALANCE OF DISTANCE TO SPIN-IN TAP AT MAIN DUCT TRUNK.
- NEW SUPPLY AIR DUCTWORK EXCEPT TAKEOFFS TO SUPPLY AIR DIFFUSERS TO BE SINGLE WALL RECTANGULAR, SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A, EXTERNALLY INSULATED WITH 2" THICK FIBERGLASS DUCT WRAP. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
- NEW RETURN AIR DUCTWORK TO BE SINGLE WALL RECTANGULAR, SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS. PROVIDE 2" THICK EXTERNAL FIBERGLASS WRAP.
- NEW OUTSIDE AIR INTAKE DUCTWORK TO BE SINGLE WALL RECTANGULAR, SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A, EXTERNALLY INSULATED WITH 2" THICK FIBERGLASS WRAP. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
- AVOID ROUTING DUCTWORK OVER LIGHTS WHEREVER POSSIBLE. MAINTAIN MINIMUM 6" CLEARANCE BETWEEN DUCT INSULATION TO TOP OF LIGHTS.
- WORK SHALL COMPLY WITH THE FOLLOWING AGENCIES  
-2017 FLORIDA BUILDING CODE.  
-2017 FLORIDA MECHANICAL CODE.  
-2017 FLORIDA PLUMBING CODE.  
-2017 FLORIDA FUEL GAS CODE.  
-NATIONAL FIRE PROTECTION AGENCY (NFPA)  
-AMERICAN SOCIETY OF HEATING AND REFRIGERATION ENGINEERS (ASHRAE)
- TRANSFER DUCTS TO BE INTERNALLY INSULATED WITH 1" THICK ACOUSTICAL DUCT LINER. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
- KEEP MECHANICAL SYSTEMS TIGHT TO STRUCTURE AT ALL TIMES.
- ALL ROOF PENETRATIONS AND ROOF MOUNTED EQUIPMENT THRU AND /OR LOCATED ON THE SLOPED PORTION OF THE ROOF SHALL BE PAINTED. PAINT TO MATCH EXISTING ROOF.
- ALL PIPING LOCATIONS ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL PIPING ELEVATIONS IN THE FIELD PRIOR TO FABRICATION. CONTRACTOR TO FIELD ADJUST PIPING RUNS TO COORDINATE WITH EXISTING STRUCTURAL AND BUILDING SYSTEMS AS NECESSARY.
- REFER TO SPECIFICATIONS FOR COMMISSIONING REQUIREMENTS.
- ALL REQUIRED TESTING AND BALANCING OF HVAC SYSTEMS AS REQUIRED BY THE PROJECT MANUAL WILL BE OWNER PROVIDED UNDER SEPARATE CONTRACT. SEE SPECIFICATION. THE CONTRACTOR SHALL COORDINATE ALL SCHEDULED TEST AND BALANCE ACTIVITIES WITH THE OWNER'S TEST AND BALANCE CONTRACTOR AS REQUIRED. PROVIDE TESTING, ADJUSTING, AND BALANCING OF HVAC SYSTEMS BY A NEBB OR AABC CERTIFIED TESTING, ADJUSTING, AND BALANCING CONTRACTOR. PROVIDE TAB REPORTS AS PER THE STANDARD NEBB OR AABC REPORT FORMS. BALANCE AND ADJUST SYSTEMS AS PER DESIGN DOCUMENT REQUIREMENTS. PROVIDE WARRANTY AND PERFORMANCE GUARANTEE FOR TESTING, ADJUSTING, AND BALANCING.

DIFFUSER/GRILLE LEGEND

	CEILING DIFFUSER (CD)	EQUAL TO TITUS OMNI-AA OR PRICE ASPD ALUMINUM CEILING DIFFUSER SUITABLE FOR INSTALLATION IN GYPSUM BOARD CEILINGS OR LAY-IN INSTALLATION IN TILE CEILINGS. SIZE AND AIRFLOW AS INDICATED. PROVIDE WITH SQUARE-TO-ROUND NECK TRANSITION AS REQUIRED.
	RETURN REGISTER (RAR) OR RETURN GRILLE (RAG) OR RETURN REGISTER WITH FILTER (RAR2) OR TRANSFER GRILLE (TAG) OR TRANSFER REGISTER (TAR) OR EXHAUST GRILLE (EAG) OR EXHAUST REGISTER (EAR)	EQUAL TO TITUS 350 ZF ALUMINUM REGISTER/GRILLE WITH 0° DEFLECTION AND 19mm (3/4") SPACING SUITABLE FOR SURFACE MOUNTING TO SIDEWALL GYPSUM BOARD CEILINGS OR LAY-IN INSTALLATION IN TILE CEILING. REGISTER DESIGNATION INDICATES GRILLE TO BE PROVIDED WITH OPPOSED BLADE DAMPER. SIZE AS INDICATED. FOR LAY-IN INSTALLATION, PROVIDE LAY-IN BORDER FRAME AND PROVIDE FILLER PANEL FOR CEILING TILE LOCATION.
	SUPPLY REGISTER (SAR) OR SIDEWALL SUPPLY REGISTER (SWR)	EQUAL TO TITUS 300FS ALUMINUM SUPPLY GRILLE. PROVIDE WITH OPPOSED BLADE DAMPER. SIZE AND AIRFLOW AS INDICATED. FOR LAY-IN INSTALLATION, PROVIDE LAY-IN BORDER FRAME AND PROVIDE FILLER PANEL FOR CEILING TILE LOCATION.
	OUTSIDE AIR LOUVER (OAL) OR EXHAUST AIR LOUVER (EAL)	WALL LOUVER SHALL BE FLORIDA PRODUCT APPROVED, MIAMI-DADE QUALIFIED, AND COMPLIES WITH AMCA 540 AND 550. STATIONARY DRAINABLE BLADE EXTRUDED ALUMINUM LOUVER. PROVIDE WITH BIRD SCREEN. COORDINATE FINISH WITH ARCHITECT. LOUVER SIZE AS INDICATED (FACE AREA) WITH A MINIMUM OF 30% FREE AREA. COORDINATE EXACT WALL OPENING WITH STRUCTURAL. LOUVER EQUAL TO POTTORFF ECV-645 OR EQUIVALENT.

COORDINATE DIFFUSERS/GRILLES/LOUVERS COLOR REQUIREMENTS WITH ENGINEER

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HVAC RENOVATION PH. B  
SANTA ROSA COUNTY SCHOOL DISTRICT

DESIGNED BY:  
CAP

DRAWN BY:  
CAP

CHECKED BY:  
WJJ

DATE:  
DECEMBER 5, 2018

SHEET TITLE:  
MECHANICAL  
LEGEND,  
NOTES, &  
ABBREVIATIONS

SHEET:  
M001



GENERAL PHASING NOTES

1. ALL WORK WHICH REQUIRES POWER OUTAGE SHUTDOWN SHALL BE COMPLETED IN A CONSECUTIVE 24 HOUR PERIOD. THE WORK SHALL BE COMMENCED AT 7:00 AM ON THE SHUTDOWN DAY AND SHALL BE COMPLETED AT OR BEFORE 7:00 AM ON THE FOLLOWING DAY. COORDINATE WITH OWNER.
2. THE OWNER WITH THE ASSISTANCE OF THE PLANT MANUFACTURER REPRESENTATIVE WILL SHUT DOWN THE CENTRAL PLANT AND THE CONTRACTOR SHALL DRAIN THE HYDRONIC WATER SYSTEM PRIOR TO THE COMMENCEMENT OF WORK ON THE SHUTDOWN DAY.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REFILLING THE SYSTEM AND LEAK TESTING THE PIPING PRIOR TO COMPLETION OF SHUTDOWN WORK.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VENTING AIR FROM THE SYSTEM AND ASSISTING THE OWNER IN RESTARTING THE SYSTEM FOLLOWING COMPLETION OF SHUTDOWN WORK AT 7:00 AM ON THE DAY FOLLOWING THE SHUTDOWN DAY.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND DELIVERING TO THE SITE ALL EQUIPMENT, PIPING, VALVES, ACCESSORIES AND OTHER MATERIALS REQUIRED FOR COMPLETION OF THE SHUTDOWN WORK IN THE SPECIFIED TIME PERIOD. THE CONTRACTOR IS ENCOURAGED TO UTILIZE PREFABRICATED PIPING ASSEMBLIES TO THE MAXIMUM EXTENT PRACTICABLE.
6. RE-INSULATION WORK, CLEAN-UP, AND OTHER TASKS NOT REQUIRING SYSTEM SHUTDOWN SHALL BE ACCOMPLISHED WITHIN 3 WORKING DAYS OF SUCCESSFUL SYSTEM START-UP.

GRAVITY VENTILATOR SCHEDULE				
MARK	CFM	SP (IN W.G.)	DIMENSIONS (IN.)	
			CURB CAP (WxL)	THROAT (WxL)
GI-5	2,665	0.005	56x56	50x50

NOTES:

1. GI – GRAVITY INTAKE
2. PROVIDE WITH PRE-FABRICATED CURB, ALUMINUM MESH INSECT SCREEN, AND BACKDRAFT DAMPER.
3. PROVIDE LOW SILHOUETTE, ROOF MOUNTED MIAMI DADE/FLORIDA PRODUCT APPROVED HIGH WIND RATED GRAVITY VENTILATOR AND MFR INSULATED CURB ASSEMBLY
4. BASIS OF DESIGN IS GREENHECK FGI.
5. REFER TO DETAIL 1 ON SHEET M504.

GENERAL PIPING NOTES

1. ALL PIPING LOCATIONS ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL PIPING ELEVATIONS IN THE FIELD PRIOR TO SUBMITTING A BID.
2. BUTTERFLY VALVES SHALL BE RATED AT A MINIMUM OF 150 PSIG WOG AND SHALL PROVIDE BUBBLETIGHT SHUTOFF. VALVES SHALL HAVE LUG STYLE CAST IRON BODY, ALUMINUM BRONZE DISC, 416 STAINLESS STEEL STEM, EPDM SLEEVES, SEATS AND O-RINGS, AND GEAR OPERATOR WITH DUCTILE IRON HANDWHEEL. VALVES SHALL BE SUITABLE FOR DEAD END SERVICE AND SHALL BE MILWAUKEE 'M' SERIES. –NO EQUAL. GEAR OPERATORS SHALL HAVE MEMORY POSITIONING DEVICE (TRAVEL ADJUSTMENT SCREW) FOR PERMANENT REGISTERING OF FINAL TAB SETTING.
3. ALL BALL VALVES SHALL BE BRONZE BODY, THREADED ENDS, ALL STAINLESS STEEL TRIM, MILWAUKEE 20BSOR-02.
4. PRESSURE/TEMPERATURE TEST PORTS SHALL BE BRASS BODY 1/4” MPT WITH DUAL NORDEL SEALS AND BRASS CAP W/RETAINER STRAP, FLOW DESIGN INC. SUPERSEAL. PROVIDE 2-3/4” LENGTH FOR INSULATED PIPING AND 1-1/4” LENGTH FOR NON-INSULATED PIPING. INSTALL P/T PORTS IN GALVANIZED MALLEABLE IRON SCREWED REDUCING TEE IN STEEL PIPING SIZE 2” AND SMALLER. INSTALL P/T PORTS IN FORGED STEEL THREDOLETS OR WELDED REDUCING TEE IN PIPING SIZE 2 1/2” AND LARGER. HALF COUPLINGS ARE NOT ALLOWABLE. MOUNT P/T PORTS IN VERTICAL POSITION.
5. THE USE OF BUSHINGS AND CLOSE NIPPLES FOR THREADED CONNECTIONS OF ANY KIND IS NOT ALLOWABLE.
6. PROVIDE PIPE CONNECTIONS AND VIBRATION ISOLATORS FOR INTERNALLY ISOLATED MECHANICAL EQUIPMENTS.
7. COMPLY WITH MSS SP-58 (PIPE HANGERS AND SUPPORTS-MATERIALS, DESIGN, AND MANUFACTURE), MSS SP-69 (PIPE HANGERS AND SUPPORTS-SELECTION AND APPLICATION), MSS SP-89 (PIPE HANGERS AND SUPPORTS-FABRICATION AND INSTALLATION) FOR PIPE HANGER SELECTIONS AND APPLICATIONS.
8. PROVIDE WALL SLEEVE AND ESCUTCHEON PLATES FOR ALL WALL PIPING PENETRATIONS. GALVANIZED STEEL SHEET SLEEVES. PROVIDE A MINIMUM 1” ANNULAR SPACE. PROVIDE CONTINUOUS INSULATION THROUGH SLEEVE.
9. ALL PIPING PENETRATIONS (FIRE WALLS, CEILINGS, FLOORS) SHALL BE UL LISTED FIRESTOPS AND SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION. CONTRACTOR SHALL OBTAIN MANUFACTURER SHOP DRAWINGS AT JOBSITE FOR ALL PENETRATIONS.
- 10.SLOPE ABOVE CEILING WASTE LINE MIN. ¼” PER FOOT. SEE FLOOR PLAN FOR SIZE AND ROUTING. INSULATE ABOVE CEILING WASTE PIPING PER SPECIFICATIONS. PROVIDE ABOVE CEILING CAST IRON BODY HUB DRAIN (HD) WITH BOTTOM OUTLET AND WATERLESS TRAP GUARD. SIZE AS INDICATED. BASIS OF DESIGN IS ZURN.

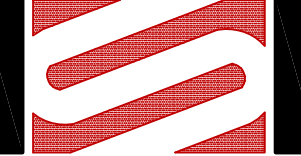
FAN SCHEDULE										
MARK	TYPE	DRIVE	PERFORMANCE DATA					ELECTRICAL DATA		
			CFM	E.S.P. (IN. W.C.)	MAX. RPM	MAX. SONES	FAN POWER (W)	VOLTS	PHASE	Hz
EF-6	CEF	DD	150	0.52	900	3.5	50 W	115	1	60
EF-7	CEF	DD	150	0.52	900	3.5	50 W	115	1	60
EF-8	CEF	DD	50	0.50	808	0.3	12 W	115	1	60
EF-9	CEF	DD	50	0.27	850	0.3	13 W	115	1	60
EF-10	CEF	DD	50	0.27	850	0.3	13 W	115	1	60
EF-11	CEF	DD	50	0.27	850	0.3	13 W	115	1	60
EF-12	CEF	DD	150	0.52	900	3.5	50 W	115	1	60
EF-13	CEF	DD	150	0.52	900	3.5	50 W	115	1	60
EF-14	CEF	DD	50	0.50	808	0.3	12 W	115	1	60
EF-15	CEF	DD	50	0.27	580	0.3	13 W	115	1	60
EF-16	RME	DD	50	0.20	1,187	2.1	8 W	115	1	60
EF-17	RME	DD	70	0.25	1,365	2.7	8 W	115	1	60

NOTES:

1. CEF- CEILING EXHAUST FAN; DD – DIRECT DRIVE; RME- ROOF MOUNTED EXHAUST
2. PROVIDE FANS WITH SOLID STATE SPEED CONTROLLER FOR AIR FLOW BALANCING.
3. PROVIDE FAN WITH AN INTEGRAL DISCONNECT.
4. PROVIDE WITH BACKDRAFT DAMPER AND ROUTE TO ASSOCIATED GRAVITY RELIEF VENTILATOR.
5. INTERLOCK FANS WITH DDC SYSTEM OCCUPANCY SCHEDULE.
6. REFER TO FIRE ALARM DRAWINGS FOR FIRE ALARM SHUTDOWN RELAYS.
7. SEE ELECTRICAL FOR COMBINATION MOTOR STARTER/DISCONNECT.
8. BASIS OF DESIGN IS GREENHECK SP (CEILING MOUNT) AND G (ROOF MOUNT).

DEMOLITION NOTES

1. ALL DEMOLISHED ITEMS NOT SPECIFICALLY INDICATED TO BE REUSED SHALL BE REMOVED FROM THE OWNER’S PROPERTY AND LEGALLY DISPOSED OF BY THE CONTRACTOR AS PART OF WORK UNDER THIS CONTRACT.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY AND PERMANENT WEATHERPROOFING OF THE INSTALLATION. THE CONTRACTOR SHALL BE FULLY LIABLE FOR ANY WATER DAMAGE OR OTHER DAMAGE FROM THE ELEMENTS CAUSED TO THE OWNER’S PROPERTY AS A RESULT OF THE CONTRACTOR’S FAILURE TO PROVIDE THE NECESSARY WEATHERPROOFING DURING THE COURSE OF WORK UNDER THIS CONTRACT.
3. DRAWINGS SHOWING EXISTING ROOF CURBS, DUCTWORK CONNECTIONS, AND ELECTRICAL CONNECTIONS ARE DIAGRAMMATIC AND ARE INTENDED ONLY TO DEPICT THE GENERAL ARRANGEMENT, APPROXIMATE SIZE, AND OVERALL PROXIMITY OF THE EXISTING SYSTEM ELEMENTS. EACH CONTRACTOR AND SUBCONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE OF WORK TO VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING THE CONSTRUCTION.
4. THE CONTRACTOR SHALL ADDITIONALLY BE RESPONSIBLE FOR MAKING ACCURATE FIELD MEASUREMENTS OF ALL EXISTING CONDITIONS RELATING TO THE DESIGN AND INSTALLATION OF NEW MECHANICAL EQUIPMENT, PIPING, DUCTWORK, ETC PRIOR TO COMMENCING WORK. PROPER SIZING OF THE PHYSICAL ASPECTS OF NEW EQUIPMENT TO MATCH EXISTING SITE CONDITIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
5. UNLESS NOTED OTHERWISE, ANY AND ALL DAMAGE TO THE EXISTING BUILDING SITE, EXTERIOR BUILDING FINISHES, BUILDING STRUCTURE, BUILDING SYSTEMS (MECHANICAL, ELECTRICAL, ETC.), INTERIOR BUILDING FINISHES, OR BUILDING FURNISHINGS CAUSED BY THE CONTRACTOR DURING THE COURSE OF WORK UNDER THIS CONTRACT SHALL BE REPLACED AND/OR REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. REPLACEMENT AND/OR REPAIR OF DAMAGED ITEMS SHALL BE MADE TO THE COMPLETE SATISFACTION OF THE OWNER, AND AS A MINIMUM SHALL RETURN THE DAMAGED ITEMS TO THE CONDITION IN WHICH THEY WERE FOUND PRIOR TO THE COMMENCEMENT OF THIS WORK.
6. PLACEMENT OF EQUIPMENT AND MATERIALS REQUIRED FOR THIS WORK SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
7. ACCORDINGLY, THE CONTRACTOR SHALL INCLUDE IN HIS BID THE COST OF PROPER PLACEMENT OF MACHINERY AND EQUIPMENT. THE CONTRACTOR SHALL BE FULLY LIABLE FOR ANY DAMAGE CAUSED TO THE BUILDING OR BUILDING SITE (AS NOTED ABOVE) DURING EQUIPMENT PLACEMENT OPERATIONS. THIS INCLUDES BUT IS NOT LIMITED TO DAMAGE TO SITE ITEMS SUCH AS LANDSCAPING, GRASSING, SIDEWALKS, AND EXTERIOR LIGHTING.
8. THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST FOR OUTAGES OF ELECTRICAL POWER, AIR CONDITIONING/HEATING, ETC. TO THE OWNER NOT LESS THAN 10 WORKING DAYS PRIOR TO THE DATE PLANNED FOR SUCH OUTAGES. ALL OUTAGES SHALL REQUIRE THE PRIOR WRITTEN APPROVAL OF THE OWNER’S AUTHORIZED REPRESENTATIVE.
9. REMOVE INDICATED UNITS AND IMMEDIATELY COMPLETE THE FOLLOWING WORK:
  - REMOVE CONDENSATE DRAIN PIPING.
  - CAP EXISTING ROOF CURBS AS INDICATED. SEE STRUCTURAL AND ARCHITECTURAL FOR COORDINATION.
  - COORDINATE WITH ELECTRICAL CONTRACTOR FOR TERMINATING POWER PROCEDURES.
10. EXISTING UNUSED SUPPLY OR RETURN AIR REGISTER/GRILLE TO BE REMOVED. REMOVE ITS ASSOCIATED FLEX DUCT AND CAP ALL DUCT OPENINGS TIGHT. PROVIDE CEILING OPENING WITH CEILING TILES TO MATCH EXISTING.
11. REMOVE EXISTING UNUSED SUPPLY DUCTWORK FROM DEMOLISHED PACKAGED DX UNIT. REMOVE AS NECESSARY TO EASE NEW WORK CONSTRUCTION.
12. CLEAN ALL RE-USED EXISTING DIFFUSER/REGISTER.
13. REMOVE CEILING TILES AS NECESSARY TO INSTALL NEW DUCTWORK. EXISTING CEILING TILES TO BE STORED AND REUSED AS NECESSARY. SEE NEW WORK FOR EXTENT OF NEW DUCTWORK. CARE SHALL BE TAKEN NOT TO DAMAGE ANY FURNITURE, WALL, FLOOR, AND EQUIPMENT IN THIS SPACE. COORDINATE WITH SHEETS G200’S TO G300’S FOR CEILING TILES SCOPE OF WORK.
14. INFORMATION INDICATING LOCATION OF EXISTING DUCTWORK, CEILING DIFFUSERS AND RETURN REGISTERS WAS OBTAINED FROM EXISTING AS BUILT DRAWINGS AND SITE VISITS AND ARE REPRESENTATIVE OF THE BEST AVAILABLE SOURCE TO DATE.
15. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VERIFY DUCTWORK AND PIPING LOCATION AND SIZE.
16. CONTRACTOR SHALL CUT ANY AREAS NECESSARY TO PERFORM WORK AND PATCH TO MATCH EXISTING. COORDINATE WALL OR FLOOR FINISH WITH ARCHITECTURAL.
17. PRIOR TO SUBSTANTIAL, CONTRACTOR SHALL PATCH OR REPLACE ALL DAMAGED EQUIPMENT (SMART BOARDS, TACK BOARDS, PROJECTORS, TELEVISIONS, COMPUTERS, ETC) WALL, CEILING, AND FLOOR DURING CONSTRUCTION TO MATCH EXISTING, IF ANY, OR NEW WORK. COORDINATE WITH ENGINEER OF RECORD AND THE SCHOOL DISTRICT. THIS SHALL BE AT NO COST TO THE OWNER.
18. ALL REMOVED MECHANICAL ASSOCIATED ITEMS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE TRANSFERRED FROM JOB SITE, EXCEPT ITEMS SELECTED BY OWNER AND THESE ITEMS SHALL BE RELOCATED TO STORAGE AREA DESIGNATED BY THE SCHOOL DISTRICT.
19. CONTRACTOR SHALL NOT DISRUPT EXISTING UTILITY SERVICES WITHOUT ASCERTAINING WRITTEN PERMISSION FROM OWNER. REQUIRED OUTAGES OR SHUTDOWNS SHALL BE KEPT TO A MINIMUM AND SHALL BE PERFORMED WITHIN A PREDETERMINED TIME FOR DURATION OF SHUT-DOWN.
20. UNLESS NOTED OR SHOWN OTHERWISE, ALL EXISTING UTILITY SERVICES SHALL REMAIN INTACT AND ACTIVE TO FACILITATE REVISED CONDITIONS.



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FLORIDA LICENSE NUMBER 56080

SEAL

NOT FOR CONSTRUCTION

REVISION NUMBER	REVISION DESCRIPTION				

KING MIDDLE SCHOOL  
HVAC RENOVATION PH. B  
SANTA ROSA COUNTY SCHOOL DISTRICT

DESIGNED BY:  
CAP

DRAWN BY:  
CAP

CHECKED BY:  
WJJ

DATE:  
DECEMBER 5, 2018

SHEET TITLE:

MECHANICAL  
NOTES AND  
SCHEDULES

SHEET:

M002




VAV AIR HANDLING UNIT SCHEDULE																								
MARK	FAN DATA										CHILLED WATER COIL DATA											UV LIGHT RATING		
	AIR VOLUME CONTROL	MAX. AIRFLOW (CFM)	MIN. AIRFLOW (CFM)	HEATING AIRFLOW (CFM)	OA AIRFLOW (CFM)	E.S.P. (IN. W.G.)	ELECTRICAL DATA				MAX. FACE VEL. (FPM)	MIN. TOTAL CAP. (MBH)	MIN. SENS. CAP. (MBH)	MIN. LATENT CAP. (MBH)	AIR SIDE				WATER SIDE					
							QTY OF FAN	FAN HP (EACH)	TOTAL FAN HP	V/PH/HZ					EAT DB (DEG. F)	EAT WB (DEG. F)	LAT DB (DEG. F)	LAT WB (DEG. F)	EWT (DEG. F)	LWT (DEG. F)	FLOW (GPM)		CONTROL VALVE TYPE	MAX. WATER PRESS. DROP (FT. W.C.)
AHU 1	VAV	5,790	1,737	3,475	1,400	3.0	1	7.5	7.5	208/3/60	500	209.5	139.6	69.9	76.3	65.0	54.0	53.0	44	56	34.9	2-WAY	15	13
AHU 2	VAV	5,700	1,710	4,015	940	3.0	1	7.5	7.5	208/3/60	500	184.0	132.7	51.3	74.9	63.3	53.8	52.4	44	56	30.7	2-WAY	15	13

- NOTES:
- MANUFACTURER SHALL ALLOW A MINIMUM OF 0.5" EXTRA STATIC FOR DIRTY INITIAL FILTERS. EXTERNAL STATIC DOES NOT INCLUDE PRESSURE DROP THROUGH CASING COILS, INITIAL FILTERS, AND FILTER HOUSINGS.
  - PROVIDE EXTENDED LUBE LINES TO OUTSIDE OF UNIT CASING ON THE SIDE WHICH IS ACCESSIBLE FOR SERVICING ON ALL UNITS.
  - INSTALL UNIT IN STRICT ACCORDANCE WITH THE MFR'S PRINTED INSTRUCTIONS AND APPLICABLE CODES AND STANDARDS.
  - ADJUST LOCATION OF UNITS IN MECHANICAL ROOMS AS REQUIRED FOR SERVICE AS RECOMMENDED BY MANUFACTURER. COORDINATE ACCESS DOOR LOCATION FOR UNIT ACCESS.
  - AIR HANDLING UNITS SHALL BE KNOCKDOWN CONSTRUCTION.
  - PIPE ALL CONDENSATE FROM UNITS TO DRAIN WITH TRAP. PROVIDE PADS AND BASE RAILS OF SUFFICIENT HEIGHT TO ENABLE CORRECT TRAP DEPTH.
  - PROVIDE FACTORY MOUNTED FIRE STATS TO SHUT UNIT DOWN UPON DETECTION OF EXCESSIVE HEAT IN THE SUPPLY SIDE DISCHARGE OF UNIT.
  - INTERLOCK AHU'S TO ENABLE FAN SHUTDOWN UPON AN INDICATION OF ALARM CONDITION BY THE BLDG. FIRE ALARM SYSTEM.
  - CONTROL VALVE Cv TO BE CALCULATED AT THE SCHEDULED WATER FLOW WITH A VALVE AUTHORITY OF 0.5 BY CONTROLS SUB-CONTRACTOR.
  - PROVIDE UNIT WITH FILTER DIFFERENTIAL PRESSURE GAUGE AND VIEWING WINDOWS USE SPECIALLY DESIGNED GLASS THAT BLOCKS UV LIGHTS
  - PROVIDE UNIT WITH UVC (ULTRA VIOLET C-BAND) DISINFECTION SYSTEM ON DISCHARGE SIDE OF CHILLED WATER COIL. SEE SHEET M503 FOR UV NOTES.
  - PROVIDE UNIT WITH VFD – VARIABLE FREQUENCY DRIVE. SEE MECHANICAL SPECIFICATIONS FOR VFD REQUIREMENTS.
  - PROVIDE UNIT WITH MERV 8 PRE-FILTER AND MERV-13 FINAL FILTERS.
  - VAV – VARIABLE AIR VOLUME. PROVIDE WITH MULTI FAN ARRAY SYSTEMS. ALL FAN HP SHALL BE THE SAME SIZE.
  - PROVIDE FACTORY VFD STARTUP AND CERTIFICATION. PROVIDE WRITTEN CONFIRMATION FROM MANUFACTURER CONFIRMING COMPLETION OF START UP.
  - COORDINATE POWER REQUIREMENTS WITH ELECTRICAL.
  - REFER TO SECTIONS AND ELEVATIONS FOR EQUIPMENT PHYSICAL DIMENSIONS AND OTHER PHYSICAL ATTRIBUTES.
  - BASIS OF DESIGN IS TEMTROL.
  - PROVIDE BASIS OF DESIGN MANUFACTURER AND MODEL OR APPROVED EQUAL WITH PERFORMANCE.
  - COMPONENTS AND TRIM OPTIONS WHICH EXCEED OR EQUAL TO BASIS OF DESIGN.

BLOWER COIL UNIT SCHEDULE																									
MARK	TYPE	BASIS OF DESIGN	FAN CFM	EXT. STATIC PRESS. (IN. W.C.)	MIN. OA CFM	COOLING COIL DATA										HEATING COIL DATA								ELECTRICAL DATA	
						MIN. TOTAL CAP. (MBH)	MIN. SENS. CAP. (MBH)	MIN. LAT. CAP. (MBH)	ENT. AIR TEMP. (DEG F)	LVG. AIR TEMP. (DEG F)	WATER TEMP. (DEG F)		GPM	CONTROL VALVE TYPE	MAX. PRESS. DROP (FT. W.C.)	MIN. TOTAL CAP. (MBH)	AIR TEMP. (DEG F)		WATER TEMP. (DEG F)		GPM	CONTROL VALVE TYPE	MAX. PRESS. DROP (FT. W.C.)	SA FAN POWER (HP)	V/PH/HZ
									DB/WB	DB/WB	EWT	LWT					EDB	LDB	EWT	LWT					
BCU 2-1	HDT	SEE NOTE 11	1,575	0.5	125	40.3	32.9	7.4	73.5/61.5	54.6/52.6	44	56	6.7	2-WAY	10	34.8	65.2	85	130	100	2.3	3-WAY	5	1/2 x 2	115/1/60
BCU 2-2	HDT	SEE NOTE 11	1,540	0.5	300	48.4	35.0	13.4	75.7/63.9	54.6/53.3	44	56	8.1	2-WAY	10	41.0	61.1	85	130	100	2.7	3-WAY	5	1/2 x 2	115/1/60
BCU 2-3	HDT	SEE NOTE 11	660	0.5	200	25.2	16.5	8.7	77.4/66.1	54.6/53.3	44	56	4.2	2-WAY	10	20.1	57.6	85	130	100	1.3	3-WAY	5	1/2	115/1/60
BCU 2-4	HDT	SEE NOTE 11	230	0.5	50	7.7	5.3	2.4	76.0/64.5	54.6/53.4	44	56	1.3	2-WAY	10	6.3	60.4	85	130	100	0.4	3-WAY	5	1/3	115/1/60
BCU 2-5	HDT	SEE NOTE 11	395	0.5	55	12.6	8.7	3.9	74.7/64.0	54.6/53.3	44	56	2.1	2-WAY	10	9.7	62.9	85	130	100	0.6	3-WAY	5	1/2	115/1/60
BCU 2-6	HDT	SEE NOTE 11	1,255	0.5	15	18.3	17.7	0.6	72.4/60.6	59.6/55.6	44	56	3.1	2-WAY	10	COOLING ONLY								1/2 x 2	115/1/60
BCU 2-7	VDT	SEE NOTE 12	2,865	0.5	560	91.5	62.2	29.3	75.4/64.3	55.0/53.7	44	56	15.3	2-WAY	10	76.1	61.2	85	130	100	5.1	3-WAY	5	1.0	115/1/60
BCU 2-8	VDT	SEE NOTE 12	2,870	0.5	505	89.0	62.3	26.7	75.1/63.6	54.5/53.2	44	56	14.8	2-WAY	10	74.1	61.8	85	130	100	4.9	3-WAY	5	1.0	115/1/60

- NOTES:
- MANUFACTURER SHALL ALLOW A MINIMUM OF 0.5" EXTRA STATIC FOR DIRTY INITIAL FILTERS. EXTERNAL STATIC DOES NOT INCLUDE PRESSURE DROP THROUGH CASING COILS, FILTERS, AND FILTER HOUSINGS.
  - PIPE ALL CONDENSATE FROM UNITS TO DRAIN WITH TRAP.
  - TRAP CONDENSATE PIPING AT UNIT AND ROUTE TO NEAREST FLOOR DRAIN OR HUB DRAIN.
  - PROVIDE WITH FACTORY MOUNTED DISCONNECT. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL.
  - PROVIDE WITH ECM MOTOR AND SPRING ISOLATOR HANGING BRACKETS.
  - PROVIDE DOUBLE WALL CONSTRUCTION WITH MIN. 1" FOAM INSULATION.
  - PROVIDE 2 INCH MERV 8 RATED PLEATED FILTERS IN ASSOCIATED FILTER GRILLES FOR BCU'S 2-1 THRU 2-5. SEAL FILTER ACCESS COMPLETE.
  - PROVIDE 2 INCH MERV 8 RATED PLEATED FILER FOR BCU'S 2-6 THRU 2-8
  - HDT – HORIZONTAL DRAW THRU; VDT– VERTICAL DRAW THRU
  - PROVIDE WITH CONCEALED CONDENSATE PUMP. COORDINATE POWER WITH ELECTRICAL. PROVIDE STAINLES STEEL PRIMARY AND SECONDARY DRAIN PAN WITH OVERFLOW SAFETY FLOAT SWITCH. PROVIDE ALARM POINT TO DDC PANEL.
  - WIRE SWITCH INTO LOW VOLTAGE POWER SUPPLY TO SHUT UNIT DOWN IF THE CONDENSATE PUMP FAILS.
  - BASIS OF DESIGN IS PRICE FCHG.
  - BASIS OF DESIGN IS JOHNSON CONTROLS SBV



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SEAL

NOT FOR CONSTRUCTION

REVISION NUMBER	REVISION DESCRIPTION			

KING MIDDLE SCHOOL  
HVAC RENOVATION PH. B  
SANTA ROSA COUNTY SCHOOL DISTRICT

DESIGNED BY:  
CAP

DRAWN BY:  
CAP

CHECKED BY:  
WJJ

DATE:  
DECEMBER 5, 2018

SHEET TITLE:

MECHANICAL  
SCHEDULES

SHEET:

M003



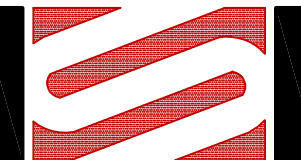
CLASSROOM FAN COIL UNIT SCHEDULE																								
MARK	(SEE NOTE 9 TO 12) TYPE	FAN CFM	OA FAN CFM	OA COOLING COIL DATA (PRECONDITIONED)												OA HEATING COIL DATA (PREHEAT)								
				MIN. TOTAL CAP. (MBH)	MIN. SENS. CAP. (MBH)	MIN. LAT. CAP. (MBH)	EAT (DEG F)	EAT (DEG F)	LAT (DEG F)	LAT (DEG F)	WATER TEMP. (DEG F)		GPM	CONTROL VALVE TYPE	MAX. PRESS. DROP (FT. W.C.)	MIN. TOTAL CAP. (MBH)	AIR TEMP. (DEG F)		WATER TEMP. (DEG F)		GPM	CONTROL VALVE TYPE	MAX. PRESS. DROP (FT. W.C.)	
							DB	WB	DB	WB	EWT	LWT					EAT	LAT	EWT	LWT				
FCU 1-18	VDT	1185	370	31.3	15.2	16.1	89.6	77	54	53.9	44	56	5.2	2-WAY	15	9.0	33	54	130	100	0.6	2-WAY	10	
FCU 1-19	VDT	1590	445	36.2	17.7	18.5	89.6	77	54	53.9	44	56	6.0	2-WAY	15	10.4	33	54	130	100	0.7	2-WAY	10	
FCU 1-20	VDT	1560	415	33.8	16.5	17.3	89.6	77	54	53.9	44	56	5.6	2-WAY	15	9.7	33	54	130	100	0.6	2-WAY	10	
FCU 1-21	VBT	1110	355	28.8	14.0	14.8	89.6	77	54	53.9	44	56	4.8	2-WAY	15	8.3	33	54	130	100	0.6	2-WAY	10	
FCU 1-22	VBT	1110	355	28.8	14.0	14.8	89.6	77	54	53.9	44	56	4.8	2-WAY	15	8.3	33	54	130	100	0.6	2-WAY	10	
FCU 1-23	VBT	1110	355	28.8	14.0	14.8	89.6	77	54	53.9	44	56	4.8	2-WAY	15	8.3	33	54	130	100	0.6	2-WAY	10	
FCU 1-24	VBT	1110	355	28.8	14.0	14.8	89.6	77	54	53.9	44	56	4.8	2-WAY	15	8.3	33	54	130	100	0.6	2-WAY	10	
FCU 2-1	VDT	1450	395	32.1	15.6	16.5	89.6	77	54	53.9	44	56	5.4	2-WAY	15	16.3	33	70	130	100	1.1	2-WAY	10	
FCU 2-2	VDT	1535	395	32.2	15.7	16.5	89.6	77	54	53.9	44	56	5.4	2-WAY	15	16.3	33	70	130	100	1.1	2-WAY	10	
FCU 3-1	VBT	1445	360	29.4	14.3	15.1	89.6	77	54	53.9	44	56	4.9	2-WAY	15	8.4	33	54	130	100	0.6	2-WAY	10	
FCU 3-2	VBT	1210	385	31.4	15.3	16.1	89.6	77	54	53.9	44	56	5.2	2-WAY	15	9.0	33	54	130	100	0.6	2-WAY	10	
FCU 3-3	VBT	1580	360	29.4	14.3	15.1	89.6	77	54	53.9	44	56	4.9	2-WAY	15	8.4	33	54	130	100	0.6	2-WAY	10	
FCU 3-4	VBT	1530	360	29.1	14.2	14.9	89.6	77	54	53.9	44	56	4.9	2-WAY	15	8.4	33	54	130	100	0.6	2-WAY	10	
FCU 3-5	VBT	1100	235	19.2	9.4	9.8	89.6	77	54	53.9	44	56	3.2	2-WAY	15	5.5	33	54	130	100	0.4	2-WAY	10	
FCU 3-6	VDT	760	100	5.8	2.8	3.0	89.6	77	54	53.9	44	56	1.0	2-WAY	15	1.7	33	54	130	100	0.1	2-WAY	10	
FCU 3-7	VDT	1050	100	6.4	3.1	3.3	89.6	77	54	53.9	44	56	1.1	2-WAY	15	1.8	33	54	130	100	0.1	2-WAY	10	
FCU 3-8	VDT	1095	100	5.3	2.6	2.7	89.6	77	54	53.9	44	56	0.9	2-WAY	15	1.5	33	54	130	100	0.1	2-WAY	10	
AHU-3	VDT	1400	215	17.3	8.5	8.8	89.6	77	54	53.9	44	56	2.9	2-WAY	15	5.0	33	54	130	100	0.3	2-WAY	10	

CLASSROOM FAN COIL UNIT SCHEDULE (CONTINUED)																							
MARK	COOLING COIL DATA (PRIMARY)												HEATING COIL DATA (REHEAT)								ELECTRICAL DATA		
	MIN. TOTAL CAP. (MBH)	MIN. SENS. CAP. (MBH)	MIN. LAT. CAP. (MBH)	EAT (DEG F)	EAT (DEG F)	LAT (DEG F)	LAT (DEG F)	WATER TEMP. (DEG F)		GPM	CONTROL VALVE TYPE	MAX. PRESS. DROP (FT. W.C.)	MIN. TOTAL CAP. (MBH)	AIR TEMP. (DEG F)		WATER TEMP. (DEG F)		GPM	CONTROL VALVE TYPE	MAX. PRESS. DROP (FT. W.C.)	SA FAN POWER (HP)	OA FAN POWER (W)	V/PH/HZ
				DB	WB	DB	WB	EWT	LWT					EAT	LAT	EWT	LWT						
FCU 1-18	22.5	17.1	5.4	66.6	58.7	54.5	52.3	44	56	3.8	2-WAY	10	30.1	63.8	85.0	130	100	2.0	2-WAY	10	3/4	77	115/1/60
FCU 1-19	29.3	22.1	7.2	67.0	58.9	54.5	52.4	44	56	4.9	2-WAY	10	37.1	64.1	85.0	130	100	2.5	2-WAY	10	3/4	77	115/1/60
FCU 1-20	28.1	22.4	5.7	67.2	58.7	54.5	52.2	44	56	4.7	2-WAY	10	36.2	64.3	85.0	130	100	2.4	2-WAY	10	3/4	77	115/1/60
FCU 1-21	19.6	14.6	5.0	66.4	58.8	54.6	52.5	44	56	3.3	2-WAY	10	26.6	63.5	85.0	130	100	1.8	2-WAY	10	1/2	77	115/1/60
FCU 1-22	19.6	14.6	5.0	66.4	58.8	54.6	52.5	44	56	3.3	2-WAY	10	26.6	63.5	85.0	130	100	1.8	2-WAY	10	1/2	77	115/1/60
FCU 1-23	19.6	14.6	5.0	66.4	58.8	54.6	52.5	44	56	3.3	2-WAY	10	26.6	63.5	85.0	130	100	1.8	2-WAY	10	1/2	77	115/1/60
FCU 1-24	19.6	14.6	5.0	66.4	58.8	54.6	52.5	44	56	3.3	2-WAY	10	26.6	63.5	85.0	130	100	1.8	2-WAY	10	1/2	77	115/1/60
FCU 2-1	33.0	27.5	5.5	71.6	60.6	54.6	52.4	44	56	5.5	2-WAY	10	26.6	68.5	85.0	130	100	1.8	2-WAY	10	3/4	77	115/1/60
FCU 2-2	34.8	29.1	5.7	71.7	60.4	54.6	52.4	44	56	5.8	2-WAY	10	28.2	68.5	85.0	130	100	1.9	2-WAY	10	3/4	77	115/1/60
FCU 3-1	26.6	21.0	5.6	67.5	58.8	54.5	52.3	44	56	4.4	2-WAY	10	33.0	64.5	85.0	130	100	2.2	2-WAY	10	1/3	77	115/1/60
FCU 3-2	30.1	25.1	5.0	73.2	61.2	54.5	52.4	44	56	5.0	2-WAY	10	33.3	60.4	85.0	130	100	2.2	2-WAY	10	1/3	77	115/1/60
FCU 3-3	29.3	23.6	5.7	67.9	58.9	54.5	52.2	44	56	4.9	2-WAY	10	35.6	64.8	85.0	130	100	2.4	2-WAY	10	1/3	77	115/1/60
FCU 3-4	28.3	22.7	5.6	67.8	58.9	54.5	52.2	44	56	4.7	2-WAY	10	34.5	64.7	85.0	130	100	2.3	2-WAY	10	1/3	77	115/1/60
FCU 3-5	20.5	16.7	3.8	68.1	58.9	54.5	52.2	44	56	3.4	2-WAY	10	24.5	65.0	85.0	130	100	1.6	2-WAY	10	1/2	77	115/1/60
FCU 3-6	14.9	13.4	1.5	70.3	58.9	54.5	51.8	44	56	2.5	2-WAY	10	15.5	66.7	85.0	130	100	1.0	2-WAY	10	3/4	77	115/1/60
FCU 3-7	20.1	19.1	1.0	70.7	58.2	54.5	51.2	44	56	3.4	2-WAY	10	21.3	67.0	85.0	130	100	1.4	2-WAY	10	3/4	77	115/1/60
FCU 3-8	21.4	20.0	1.4	70.9	58.6	54.5	51.2	44	56	3.6	2-WAY	10	21.7	67.2	85.0	130	100	1.4	2-WAY	10	3/4	77	115/1/60
AHU-3	43.3	37.9	5.4	78.8	62.4	54	51.8	44	56	7.2	2-WAY	10	36.6	61.7	85.0	130	100	2.4	2-WAY	10	3/4	77	115/1/60

DUCTLESS SPLIT DX WALL MOUNT AIR CONDITIONER SCHEDULE																				
MARK	SERVICE	WALL MOUNT INDOOR UNIT										OUTDOOR UNIT							ARI COOLING DATA	
		FAN DATA										COMPRESSOR		CONDENSER FAN QTY	UNIT MCA	ELECTRICAL DATA			RATED COOLING CAPACITY (MBH)	MIN. SEER
		FAN (CFM)	MIN. TOTAL CAP. (MBH)	MIN. SENS. CAP. (MBH)	EAT (DEG. F DB)	EAT (DEG. F WB)	LAT (DEG. F DB)	LAT (DEG. F WB)	ELECTRICAL DATA							VOLTS	PHASE	Hz		
									VOLTS	PHASE	Hz									
DAC/DCU-2	111	720	13.9	13.7	72.2	57.4	54.6	50.8	208	1	60	1	7.0	1	11.0	208	1	60	18	18
DAC/DCU-3	115B	500	10.8	9.6	72.3	58.2	54.6	50.1	208	1	60	1	7.0	1	11.0	208	1	60	12	18
DAC/DCU-4	054B	840	16.5	16.5	72.2	56.0	54.6	48.5	208	1	60	1	7.0	1	19	208	1	60	24	18

DUCTLESS SPLIT DX NOTES:

- UNIT RATED AT ARI STANDARD CONDITIONS.
- PROVIDE COMPRESSOR WITH ANTI-SHORT CYCLE CONTROLS AND TIME DELAY ON COMPRESSOR RESTART.
- REFRIGERANT PIPING SIZE, ROUTING, AND CONFIGURATION SHALL BE AS RECOMMENDED BY MANUFACTURER.
- INSULATE ENTIRE LENGTH OF BOTH REFRIGERANT LINES WITH MINIMUM 3/4" THICK UNICELLULAR INSULATION.
- PROVIDE UNIT WITH LOW AMBIENT CONTROLS FOR OPERATION DOWN TO 0 DEG F.
- PROVIDE OUTDOOR UNIT WITH MFR STANDARD SEACOAST CORROSION PROTECTION FOR COILS AND CASINGS.
- MOUNT AND SECURE OUTDOOR UNIT ON 4" THICK CONCRETE PAD.
- UNIT SHALL BE COOLING ONLY
- BASIS OF DESIGN IS MITSUBISHI PKA-A/PUY-A SERIES



**SCHMIDT**  
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MECHANICAL • ELECTRICAL • STRUCTURAL  
COMMUNICATIONS • INDUSTRIAL  
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P: 850-438-0050 • F: 850-432-4631  
WILLIAM JOSEPH JONES P.E.  
FLORIDA LICENSE NUMBER 56080

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REVISION NUMBER	REVISION DESCRIPTION

KING MIDDLE SCHOOL  
HVAC RENOVATION PH. B  
SANTA ROSA COUNTY SCHOOL DISTRICT

DESIGNED BY:  
CAP

DRAWN BY:  
CAP

CHECKED BY:  
WJJ

DATE:  
DECEMBER 5, 2018

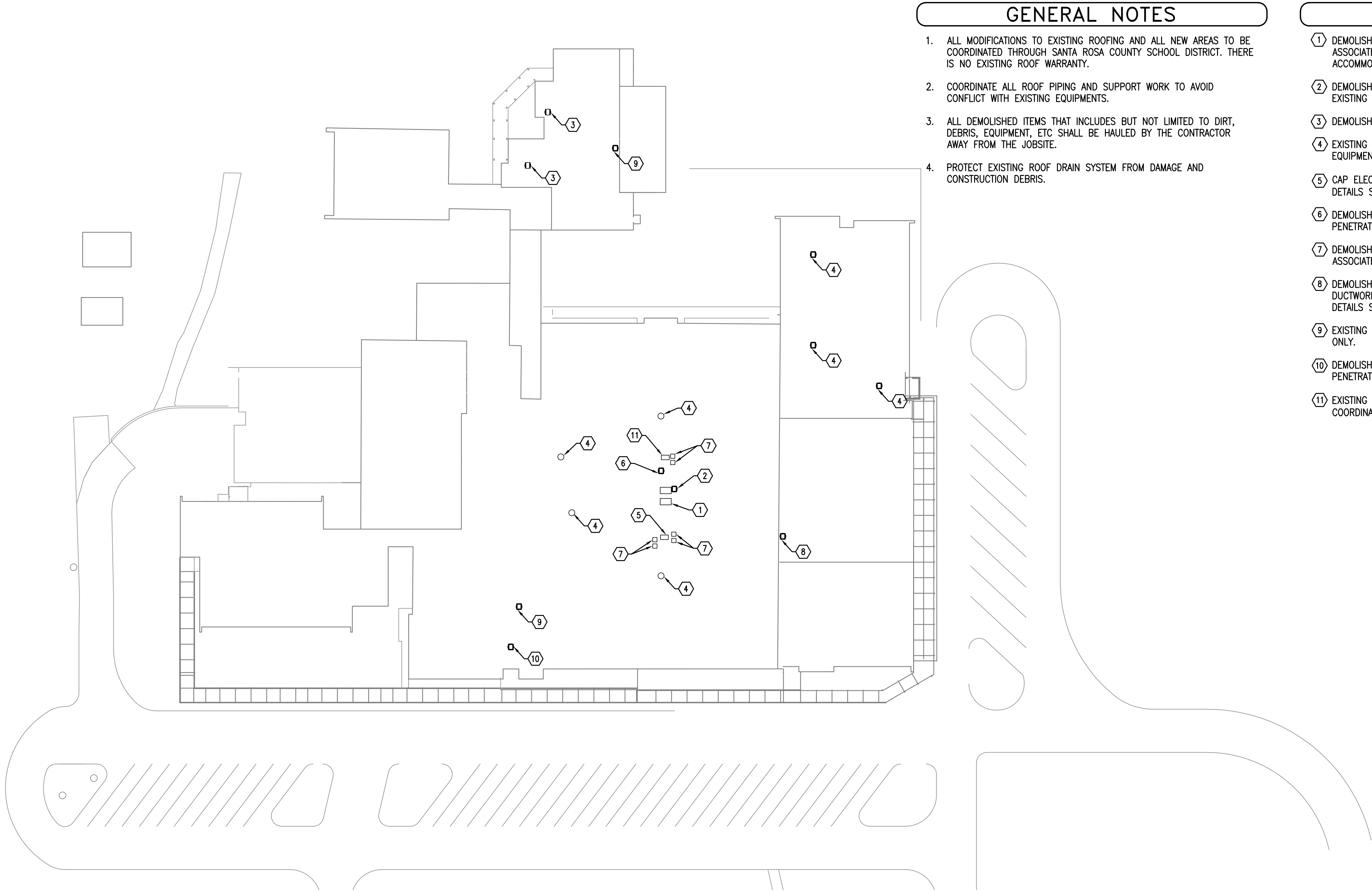
SHEET TITLE:

MECHANICAL  
SCHEDULES

SHEET:

M004





GENERAL NOTES

- ALL MODIFICATIONS TO EXISTING ROOFING AND ALL NEW AREAS TO BE COORDINATED THROUGH SANTA ROSA COUNTY SCHOOL DISTRICT. THERE IS NO EXISTING ROOF WARRANTY.
- COORDINATE ALL ROOF PIPING AND SUPPORT WORK TO AVOID CONFLICT WITH EXISTING EQUIPMENTS.
- ALL DEMOLISHED ITEMS THAT INCLUDES BUT NOT LIMITED TO DIRT, DEBRIS, EQUIPMENT, ETC SHALL BE HAULED BY THE CONTRACTOR AWAY FROM THE JOBSITE.
- PROTECT EXISTING ROOF DRAIN SYSTEM FROM DAMAGE AND CONSTRUCTION DEBRIS.

SHEET NOTES

- DEMOLISH EXISTING SPLIT SYSTEM DX ROOFTOP UNITS AND ASSOCIATED CONDENSATE PIPING. MODIFY CURB AS REQUIRED TO ACCOMMODATE NEW GRAVITY INTAKE. COORDINATE WITH NEW WORK.
- DEMOLISH EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK, CAP EXISTING CURB. REFER TO PENETRATION INFILL DETAILS SHEET G401.
- DEMOLISH EXISTING EXHAUST FAN. EXISTING ROOF CURB TO REMAIN.
- EXISTING ROOFTOP EXHAUST FAN UNIT APPROXIMATE LOCATION. EQUIPMENT TO REMAIN. SHOWN FOR COORDINATION ONLY.
- CAP ELECTRICAL/PIPING CURB. REFER TO PENETRATION INFILL DETAILS SHEET G401.
- DEMOLISH EXISTING OUTSIDE AIR INTAKE AND SEAL CURB. REFER TO PENETRATION INFILL DETAILS SHEET G401.
- DEMOLISH EXISTING SPLIT SYSTEM DX ROOFTOP UNITS AND ASSOCIATED PIPING.
- DEMOLISH EXISTING ROOFTOP EXHAUST FAN AND ASSOCIATED DUCTWORK. SEAL CURB OPENING. REFER TO PENETRATION INFILL DETAILS SHEET G401.
- EXISTING GRAVITY VENTILATOR TO REMAIN. SHOWN FOR COORDINATION ONLY.
- DEMOLISH EXISTING GRAVITY VENTILATOR. SEAL CURB. REFER TO PENETRATION INFILL DETAILS SHEET G401
- EXISTING ELECTRICAL/PIPING CURB TO REMAIN. SHOWN FOR COORDINATION ONLY.

1

32'

0'

32'

64'

SCALE: 1/32"=1'-0"

MECHANICAL DEMOLITION ROOF PLAN

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REVISION NUMBER	REVISION DESCRIPTION

KING MIDDLE SCHOOL  
HVAC RENOVATION PH. B  
SANTA ROSA COUNTY SCHOOL DISTRICT

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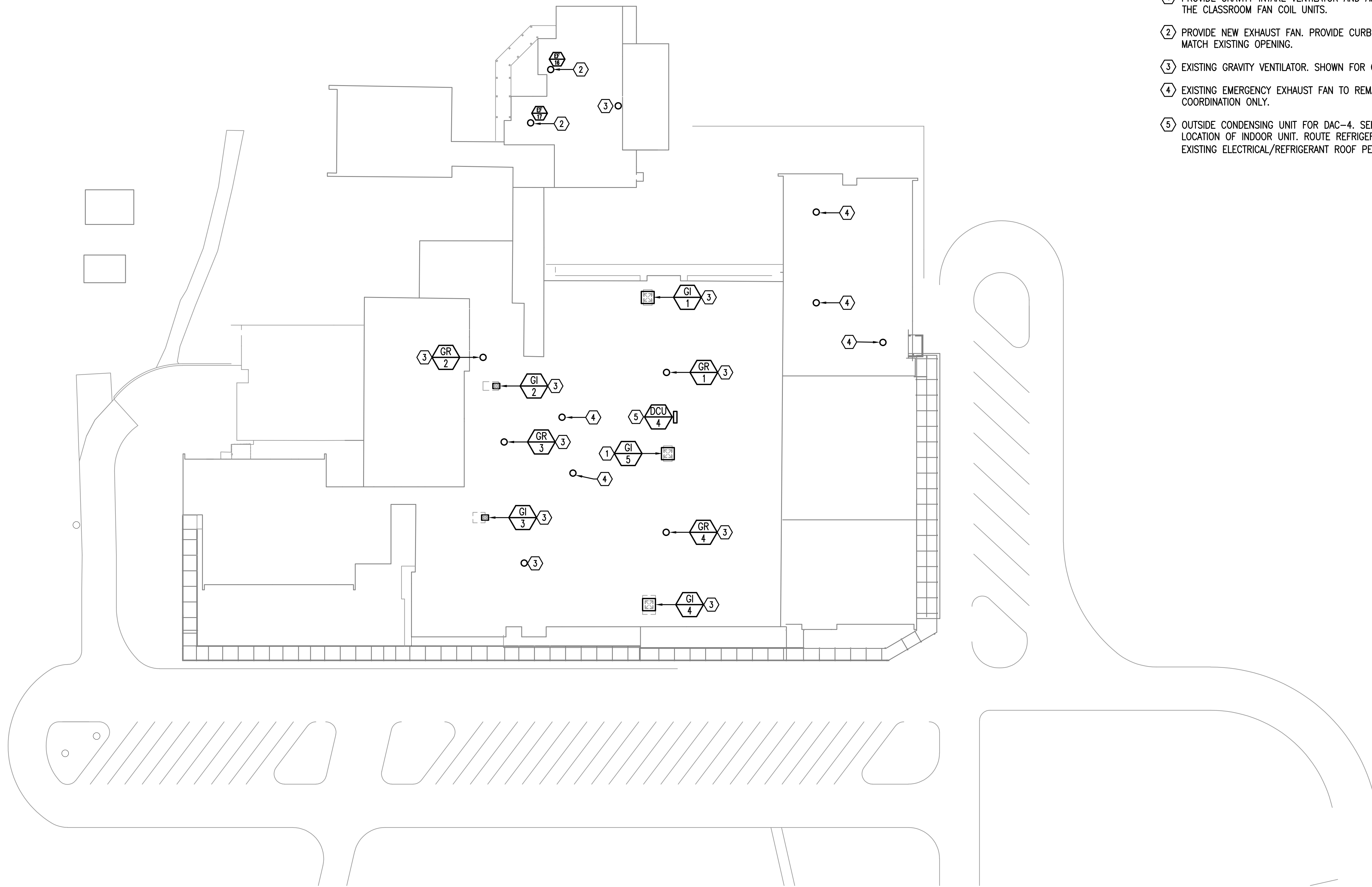
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SHEET TITLE:  
MECHANICAL  
DEMOLITION  
ROOF PLAN

SHEET:  
M101





1 MECHANICAL ROOF PLAN  
32' 0' 32' 64'  
SCALE: 1/32"=1'-0"

## SHEET NOTES

- 1 PROVIDE GRAVITY INTAKE VENTILATOR AND ASSOCIATED DUCTWORK TO THE CLASSROOM FAN COIL UNITS.
- 2 PROVIDE NEW EXHAUST FAN. PROVIDE CURB OR CURB ADAPTER TO MATCH EXISTING OPENING.
- 3 EXISTING GRAVITY VENTILATOR. SHOWN FOR COORDINATION ONLY.
- 4 EXISTING EMERGENCY EXHAUST FAN TO REMAIN. SHOWN FOR COORDINATION ONLY.
- 5 OUTSIDE CONDENSING UNIT FOR DAC-4. SEE SHEET M303 FOR LOCATION OF INDOOR UNIT. ROUTE REFRIGERANT PIPING THROUGH EXISTING ELECTRICAL/REFRIGERANT ROOF PENETRATION.

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REVISION NUMBER	REVISION DESCRIPTION

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DATE:

DECEMBER 5, 2018

SHEET TITLE:

MECHANICAL  
ROOF PLAN

SHEET:

M102



REVISION NUMBER	REVISION DESCRIPTION

KING MIDDLE SCHOOL  
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SANTA ROSA COUNTY SCHOOL DISTRICT

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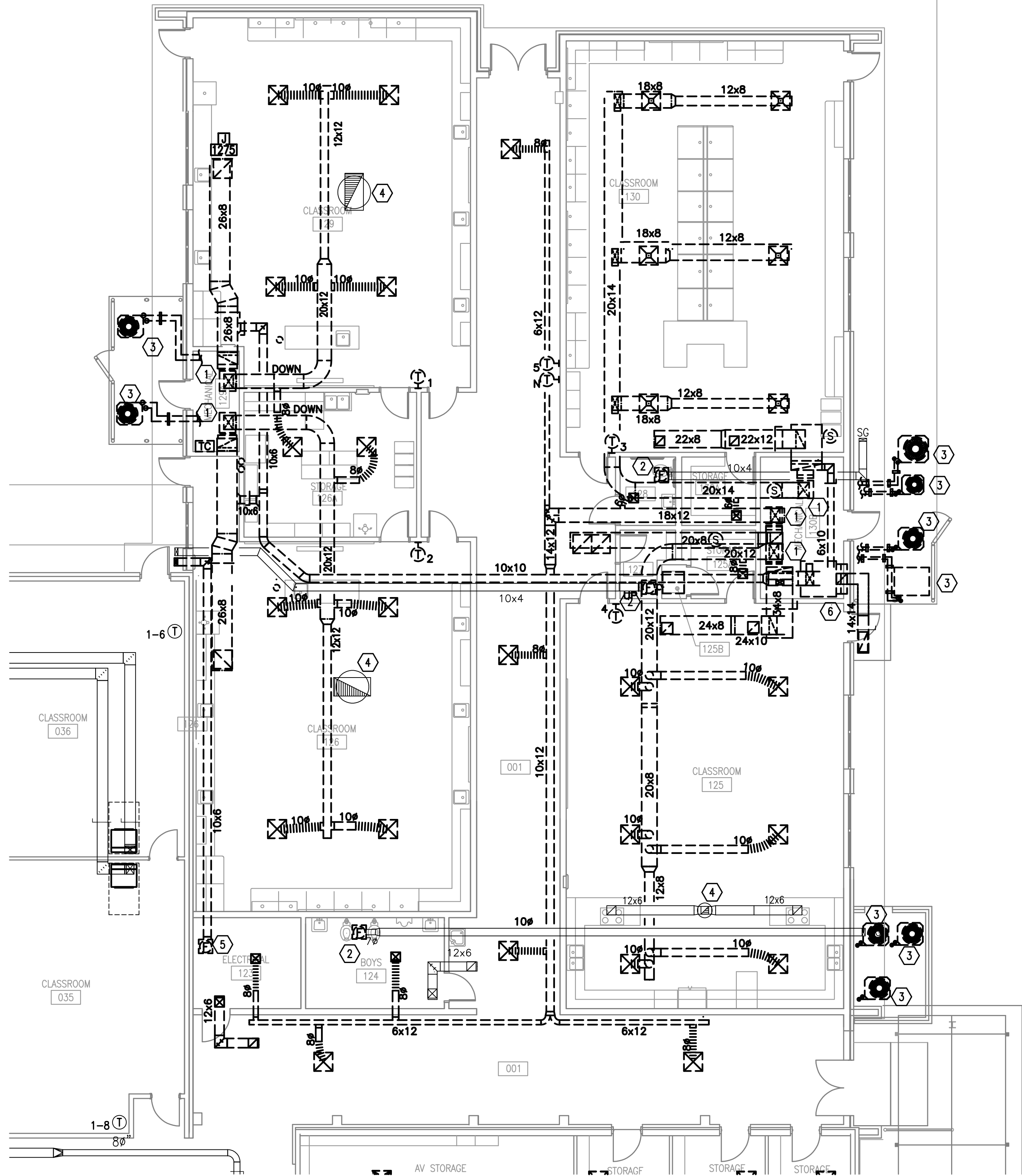
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CAP

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WJJ

DATE:  
DECEMBER 5, 2018

SHEET TITLE:  
PARTIAL  
MECHANICAL  
DEMOLITION  
PLAN

SHEET:  
M201



- SHEET NOTES
- 1

DEMOLISH AND REMOVE EXISTING DX EQUIPMENT, DUCTWORK AND GRILLES. REMOVE EXISTING CONTROLS COMPLETE. REPLACE ALL EXISTING THERMOSTATS WITH NEW DDC THERMOSTAT/HUMIDISTAT AS NOTED. MATCH NEW THERMOSTAT LOCATION TO EXISTING HEIGHT/LOCATION. PATCH AND PAINT OPENINGS IN WALL TO MATCH EXISTING. SEE NEW WORK.
- 2
- REMOVE EXISTING EXHAUST FAN AND REPLACE IN KIND. DUCTWORK, CONTROLS, AND GRILLES TO REMAIN.

3

4

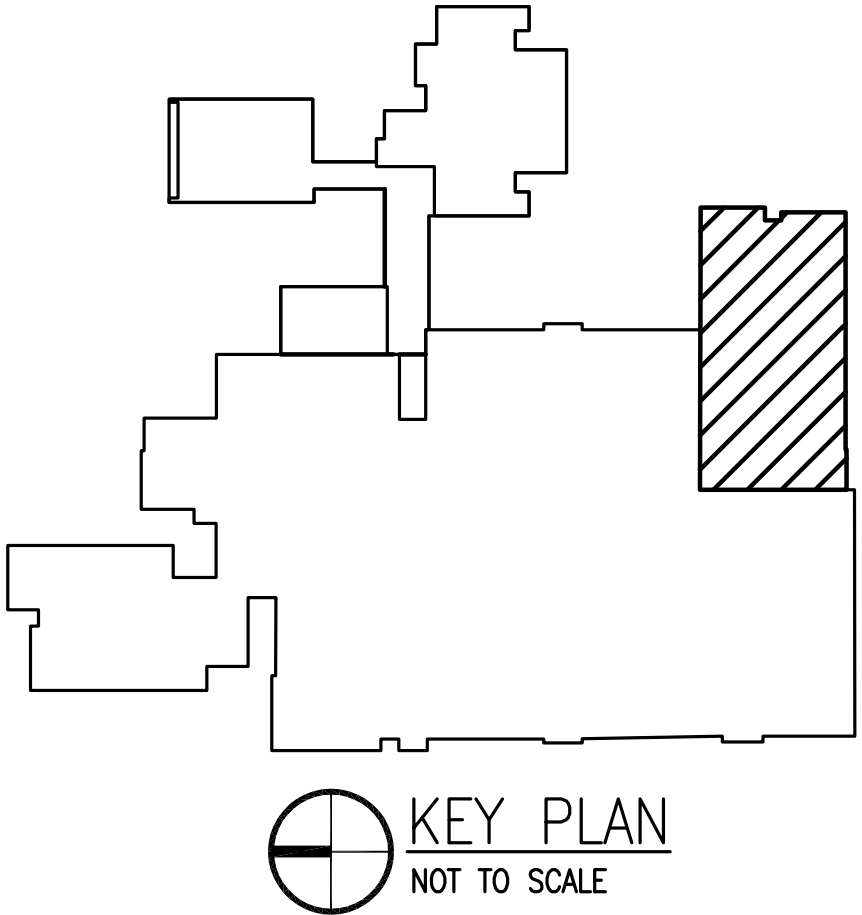
5

6

1 PARTIAL MECHANICAL DEMO PLAN

8' 0' 8' 16'

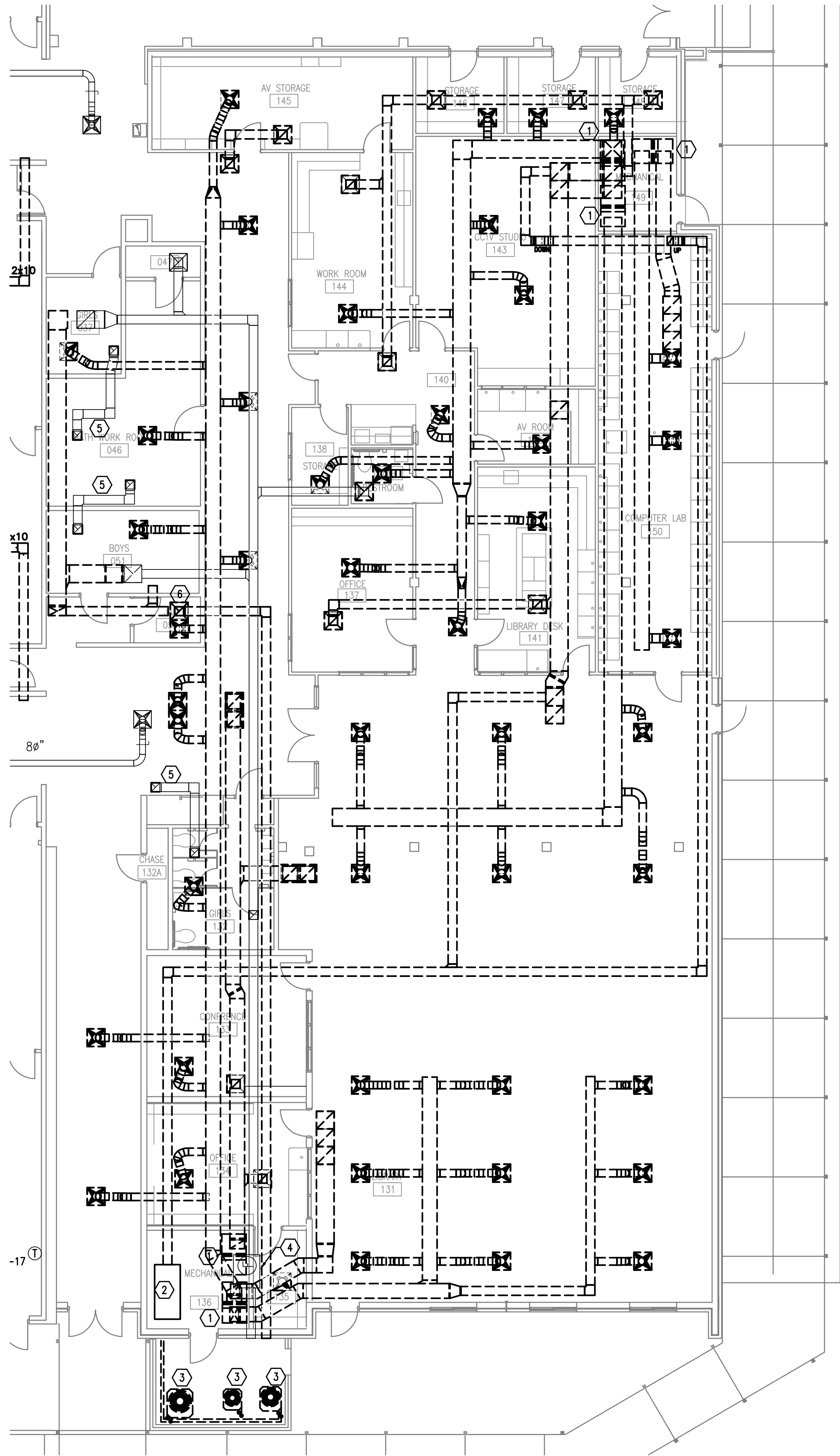
SCALE: 1/8"=1'-0"



KEY PLAN

NOT TO SCALE

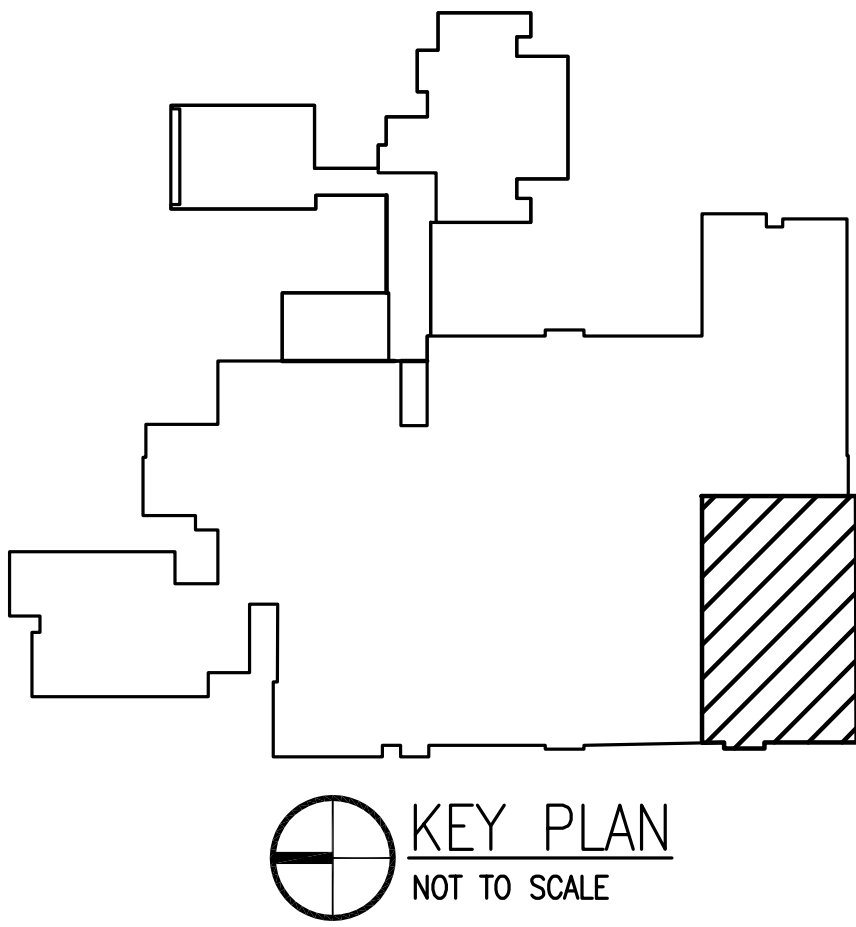




SHEET NOTES

- 1 DEMOLISH AND REMOVE EXISTING DX EQUIPMENT, DUCTWORK AND GRILLES. REMOVE EXISTING CONTROLS COMPLETE. REPLACE ALL EXISTING THERMOSTATS WITH NEW DDC THERMOSTAT/HUMIDISTAT AS NOTED. SEE NEW WORK DRAWINGS FOR LOCATION. PATCH AND PAINT OPENINGS IN WALL TO MATCH EXISTING.
- 2 DEMOLISH EXISTING OA DX EQUIPMENT AND DUCTWORK. REMOVE EXISTING CONTROLS COMPLETE.
- 3 APPROXIMATE LOCATION OF OUTSIDE CONDENSING UNIT. DEMOLISH UNIT AND ASSOCIATED PIPING COMPLETE.
- 4 EXISTING INLINE EXHAUST FAN AND ASSOCIATED DUCTWORK TO REMAIN. SHOWN FOR COORDINATION ONLY.
- 5 EXISTING TRANSFER GRILLES AND DUCTWORK TO REMAIN. SHOWN FOR COORDINATION ONLY.
- 6 DEMOLISH AND REMOVE EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK COMPLETE.

1 PARTIAL MECHANICAL DEMO PLAN  
8' 0' 8' 16'  
SCALE: 1/8"=1'-0"



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SANTA ROSA COUNTY SCHOOL DISTRICT

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SHEET TITLE:  
PARTIAL  
MECHANICAL  
DEMOLITION  
PLAN

SHEET:  
M202



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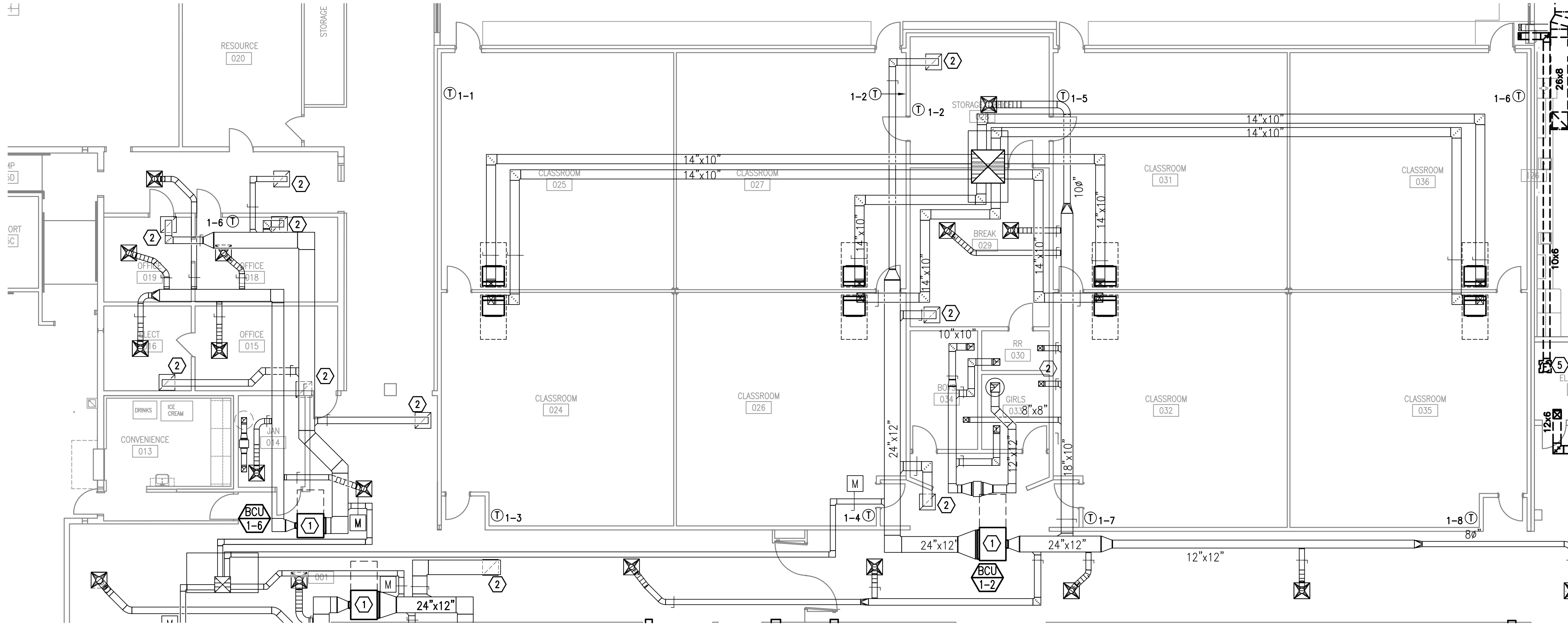
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DATE:  
DECEMBER 5, 2018

SHEET TITLE:  
PARTIAL  
MECHANICAL  
DEMOLITION  
PLAN

SHEET:

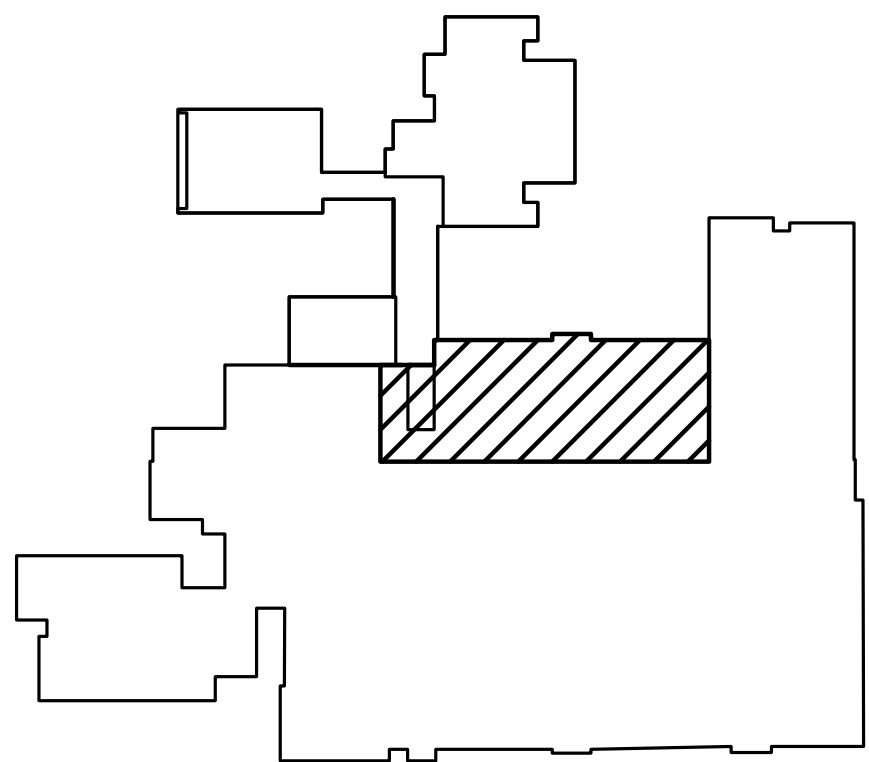
M203



SHEET NOTES

- 1 REMOVE FILTER FROM EXISTING BCU. PROVIDE SHEET METAL COVER TO SEAL FILTER ACCESS.
- 2 REMOVE EXISTING RETURN AIR REGISTER AND RETURN TO SRCSD. CONTACT RICHARD LAING [(850) 983-5120, LaingR@mail.santarosa.k12.fl.us] FOR STORAGE LOCATION. REPLACE WITH RETURN AIR FILTER GRILLE. SEE NEW WORK.

1 PARTIAL MECHANICAL DEMO PLAN  
8' 0' 8' 16'  
SCALE: 1/8"=1'-0"



KEY PLAN  
NOT TO SCALE



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REVISION  
DESCRIPTION

REVISION  
NUMBER

KING MIDDLE SCHOOL  
HVAC RENOVATION PH. B  
SANTA ROSA COUNTY SCHOOL DISTRICT

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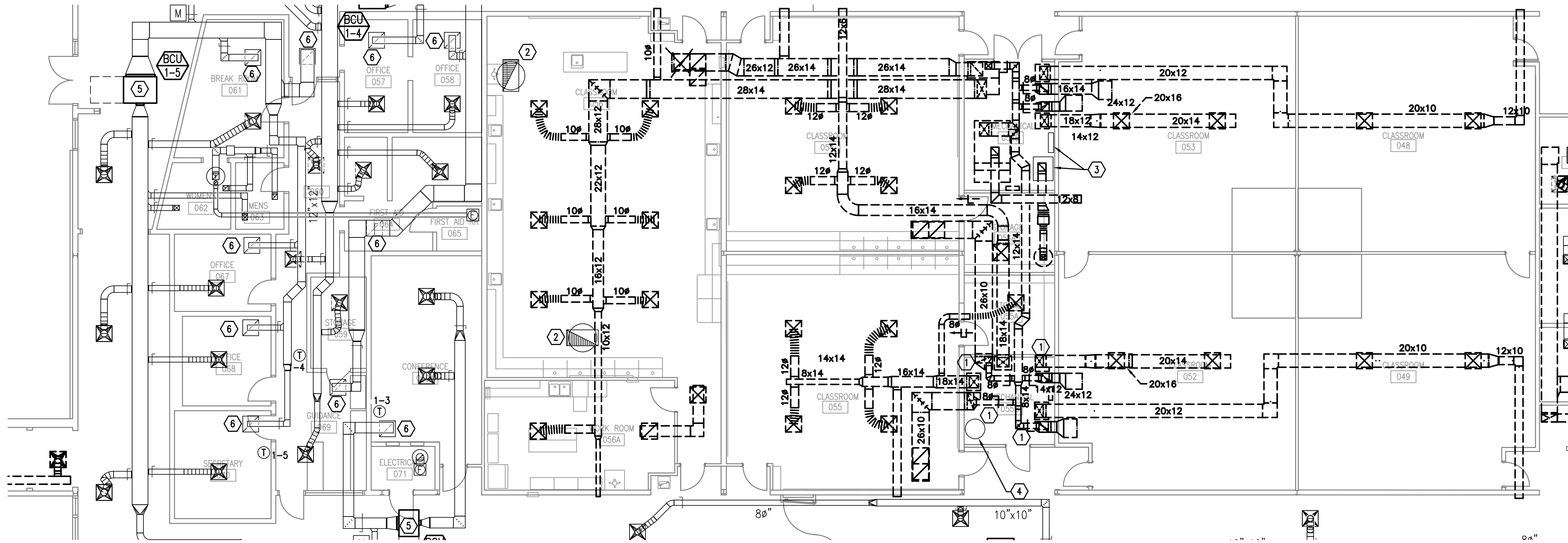
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WJJ

DATE:  
DECEMBER 5, 2018

SHEET TITLE:  
PARTIAL  
MECHANICAL  
DEMOLITION  
PLAN

SHEET:

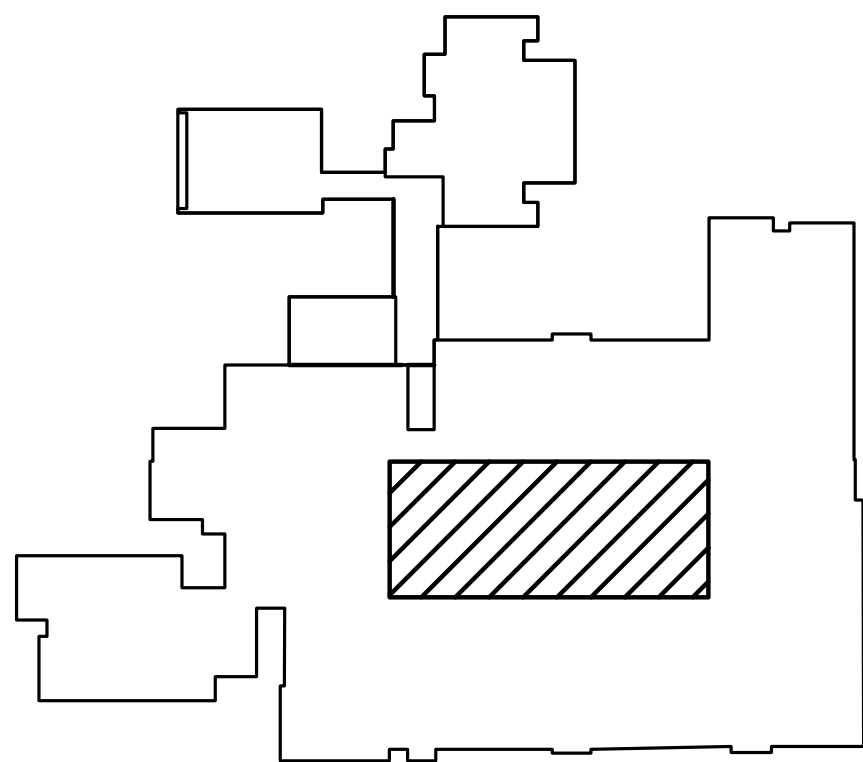
M204



SHEET NOTES

- DEMOLISH AND REMOVE EXISTING DX EQUIPMENT, DUCTWORK AND GRILLES. REMOVE EXISTING CONTROLS COMPLETE. REPLACE ALL EXISTING THERMOSTATS WITH NEW DDC THERMOSTAT/HUMIDISTAT AS NOTED. MATCH NEW THERMOSTAT LOCATION TO EXISTING HEIGHT/LOCATION.
- EXISTING EMERGENCY EXHAUST FAN AND GRAVITY RELIEF VENTILATOR TO REMAIN. SHOWN FOR COORDINATION ONLY.
- EXISTING ELECTRICAL EQUIPMENT TO REMAIN. SHOWN FOR COORDINATION ONLY.
- EXISTING WATER HEATER TO REMAIN. SHOWN FOR COORDINATION ONLY.
- REMOVE FILTER FROM EXISTING BCU. PROVIDE SHEET METAL COVER TO SEAL FILTER ACCESS.
- REMOVE EXISTING RETURN AIR REGISTER AND RETURN TO SRCSD. CONTACT RICHARD LAING [(850) 983-5120, LaingR@mail.santarosa.k12.fl.us] FOR STORAGE LOCATION. REPLACE WITH RETURN AIR FILTER GRILLE. SEE NEW WORK.

1 PARTIAL MECHANICAL DEMO PLAN  
SCALE: 1/8"=1'-0"



KEY PLAN  
NOT TO SCALE



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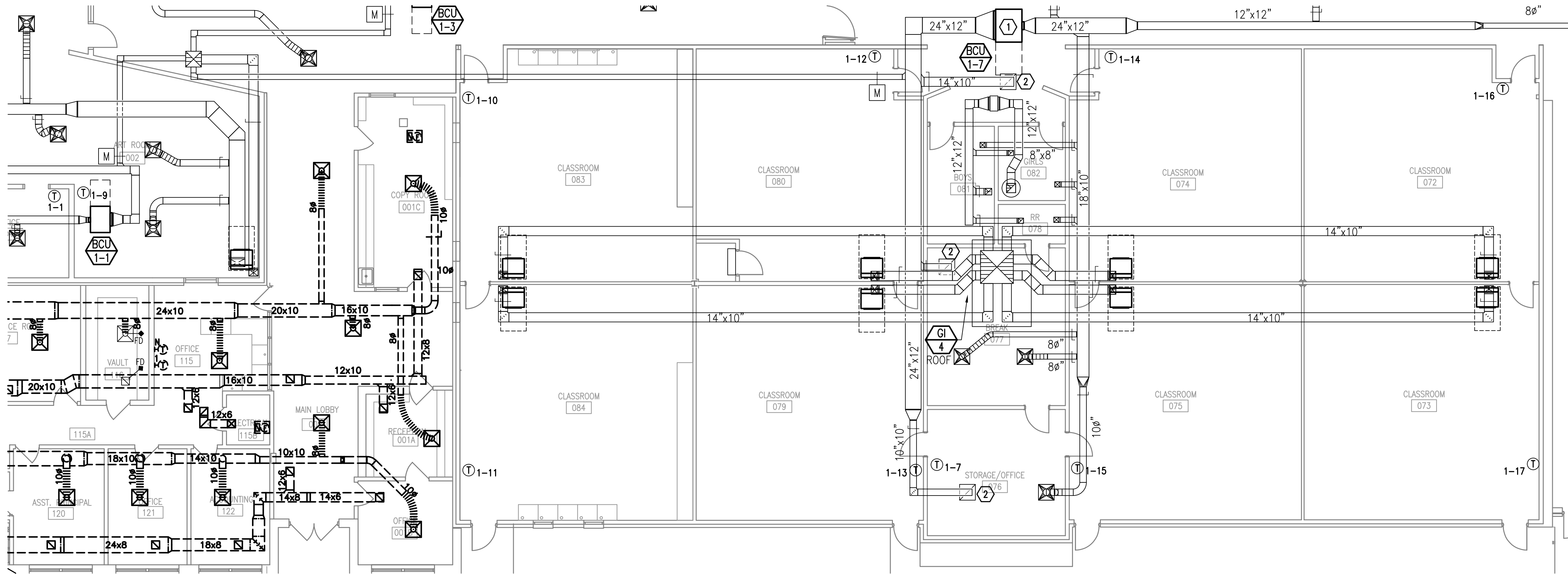
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DATE:  
DECEMBER 5, 2018

SHEET TITLE:  
PARTIAL  
MECHANICAL  
DEMOLITION  
PLAN

SHEET:

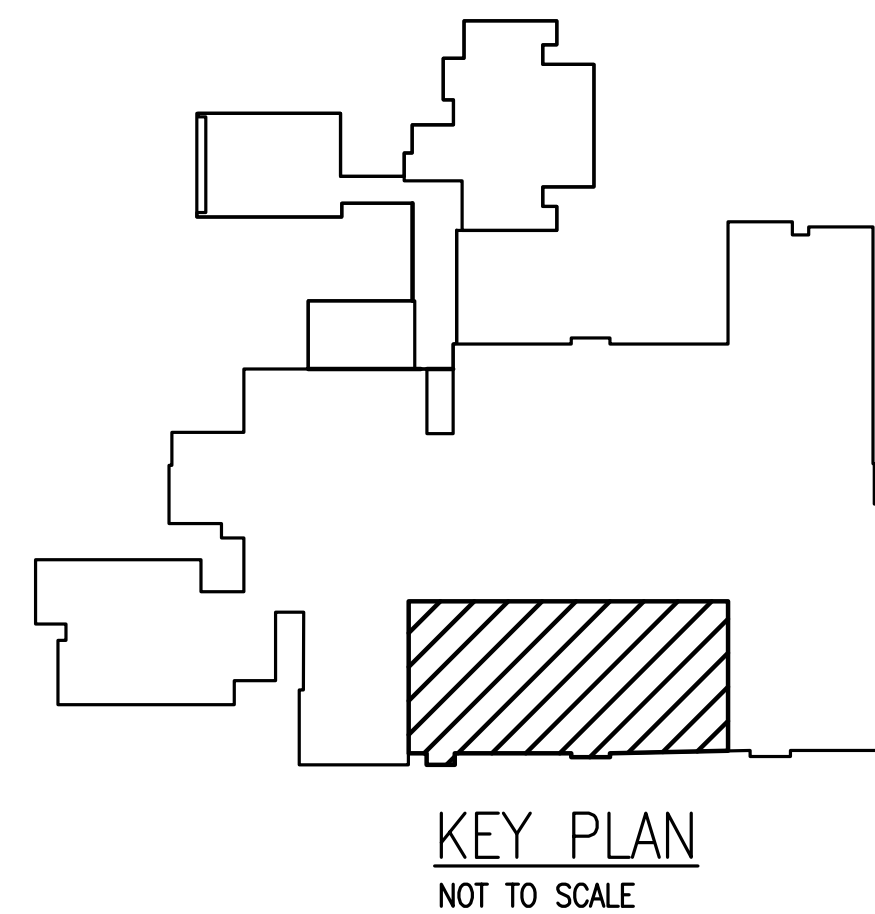
M205



SHEET NOTES

- 1 REMOVE FILTER FROM EXISTING BCU. PROVIDE SHEET METAL COVER TO SEAL FILTER ACCESS.
- 2 REMOVE EXISTING RETURN AIR REGISTER AND RETURN TO SRCSD. CONTACT RICHARD LAING [(850) 983-5120, LaingR@mail.santarosa.k12.fl.us] FOR STORAGE LOCATION. REPLACE WITH RETURN AIR FILTER GRILLE. SEE NEW WORK.

1 PARTIAL MECHANICAL DEMO PLAN  
8' 0' 8' 16'  
SCALE: 1/8"=1'-0"





SEAL

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REVISION  
DESCRIPTION

REVISION  
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SANTA ROSA COUNTY SCHOOL DISTRICT

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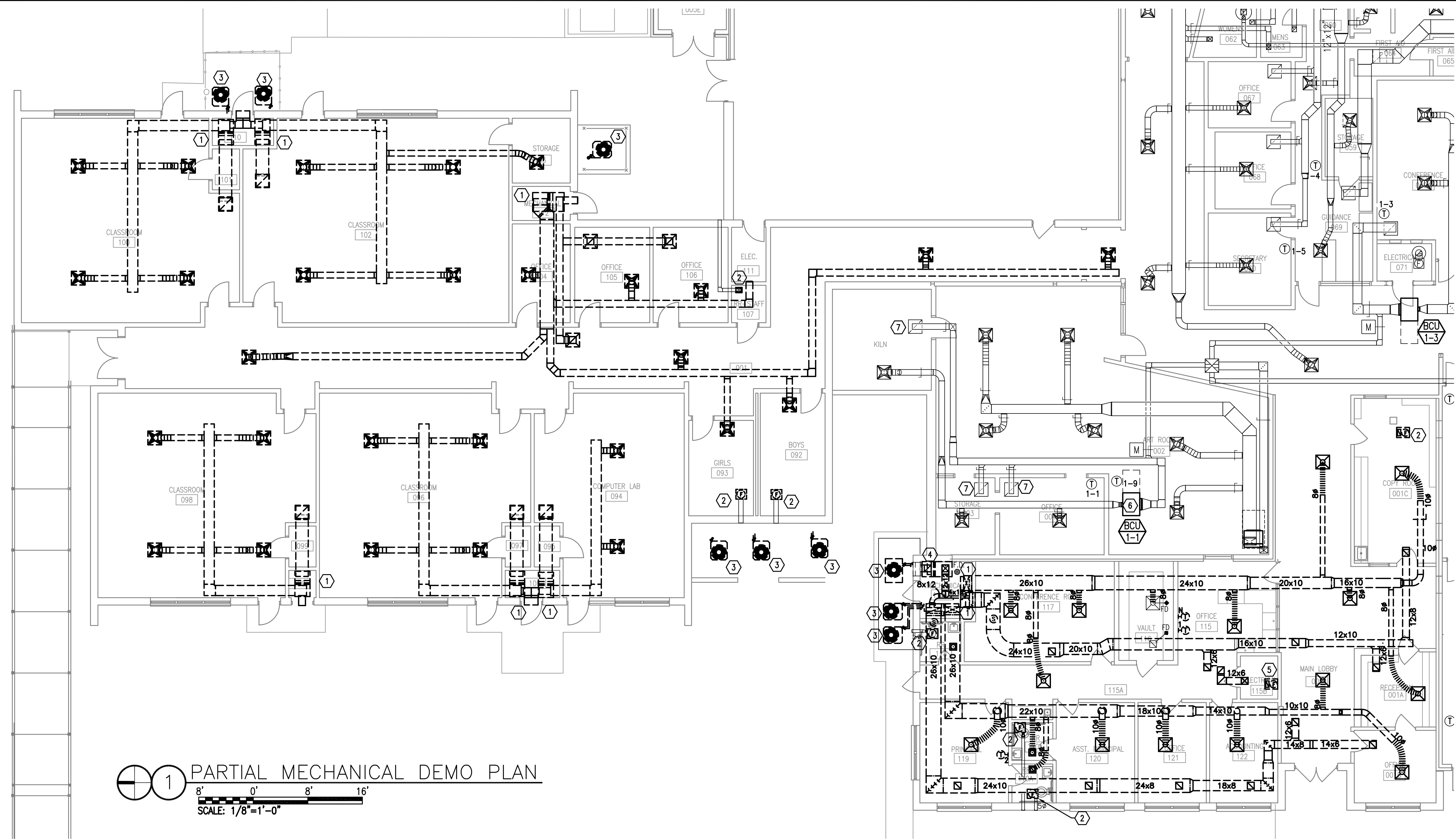
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WJJ

DATE:  
DECEMBER 5, 2018

SHEET TITLE:  
PARTIAL  
MECHANICAL  
DEMOLITION  
PLAN

SHEET:

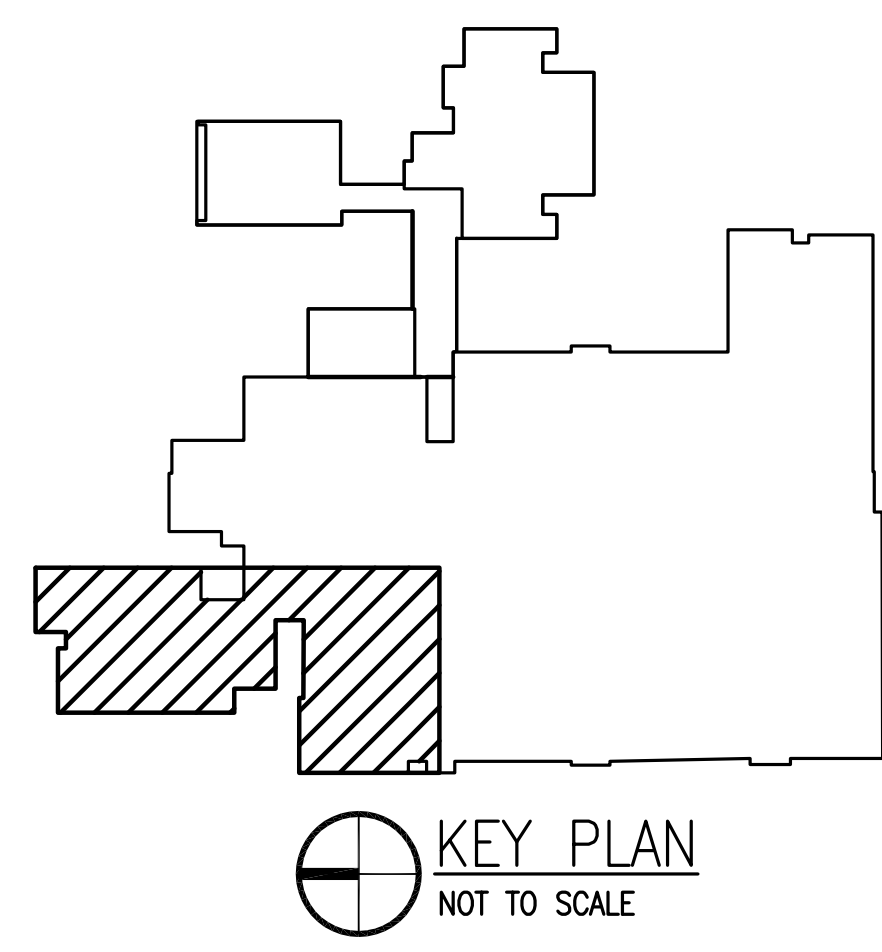
M206



1 PARTIAL MECHANICAL DEMO PLAN  
SCALE: 1/8"=1'-0"

SHEET NOTES

- 1 DEMOLISH AND REMOVE EXISTING DX EQUIPMENT, DUCTWORK AND GRILLES. REMOVE EXISTING CONTROLS COMPLETE. REPLACE ALL EXISTING THERMOSTATS WITH NEW DDC THERMOSTAT/HUMIDISTAT AS NOTED. SEE NEW WORK PLANS FOR THERMOSTAT LOCATION. EXISTING OUTSIDE AIR DUCT EXTERIOR WALL PENETRATION TO REMAIN FOR NEW WORK.
- 2 REMOVE EXISTING EXHAUST FAN AND REPLACE IN KIND. DUCTWORK, CONTROLS, AND GRILLES TO REMAIN.
- 3 APPROXIMATE LOCATION OF OUTSIDE CONDENSING UNIT. DEMOLISH UNIT AND ASSOCIATED PIPING COMPLETE.
- 4 DEMOLISH EXISTING OA DX EQUIPMENT AND DUCTWORK. SEAL OUTSIDE AIR LOUVER WEATHER TIGHT. REMOVE EXISTING CONTROLS COMPLETE.
- 5 DEMOLISH AND REMOVE EXISTING EXHAUST FAN AND DUCTWORK COMPLETE.
- 6 REMOVE FILTER FROM EXISTING BCU. PROVIDE SHEET METAL COVER TO SEAL FILTER ACCESS.
- 7 REMOVE EXISTING RETURN AIR REGISTER AND RETURN TO SRCSD. CONTACT RICHARD LAING [(850) 983-5120, LaingR@mail.santarosa.k12.fl.us] FOR STORAGE LOCATION. REPLACE WITH RETURN AIR FILTER GRILLE. SEE NEW WORK.



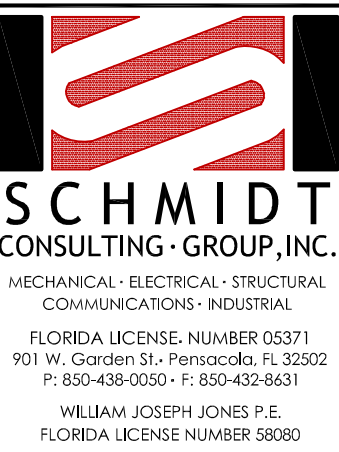
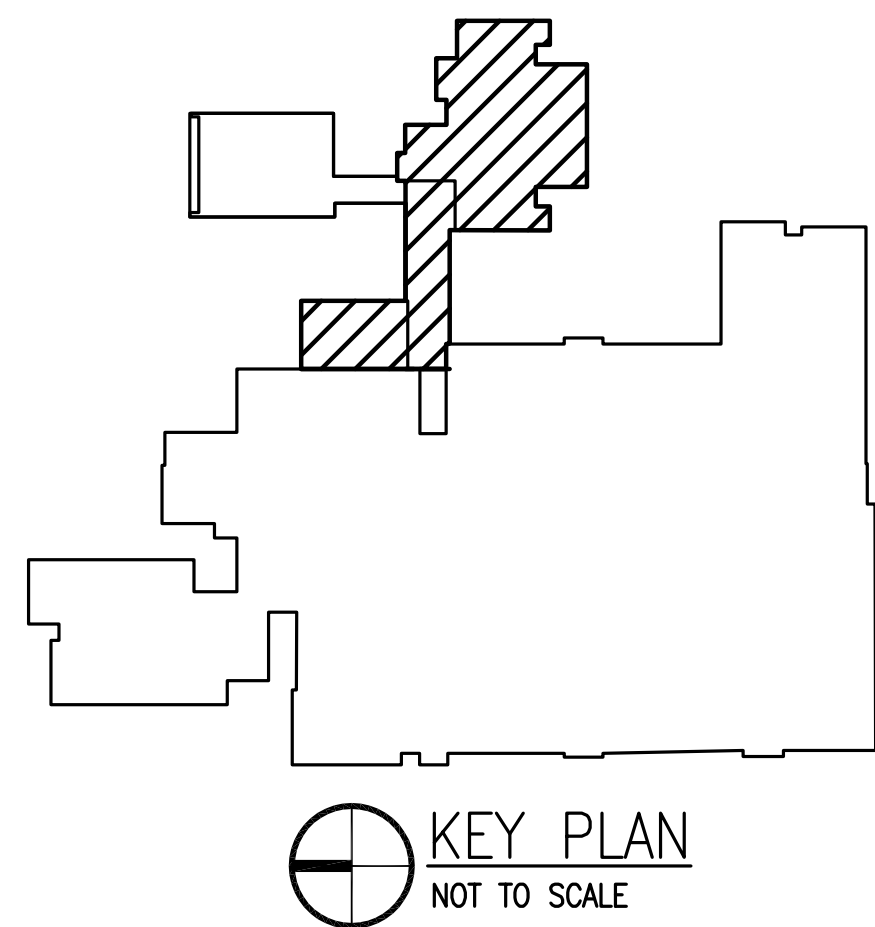
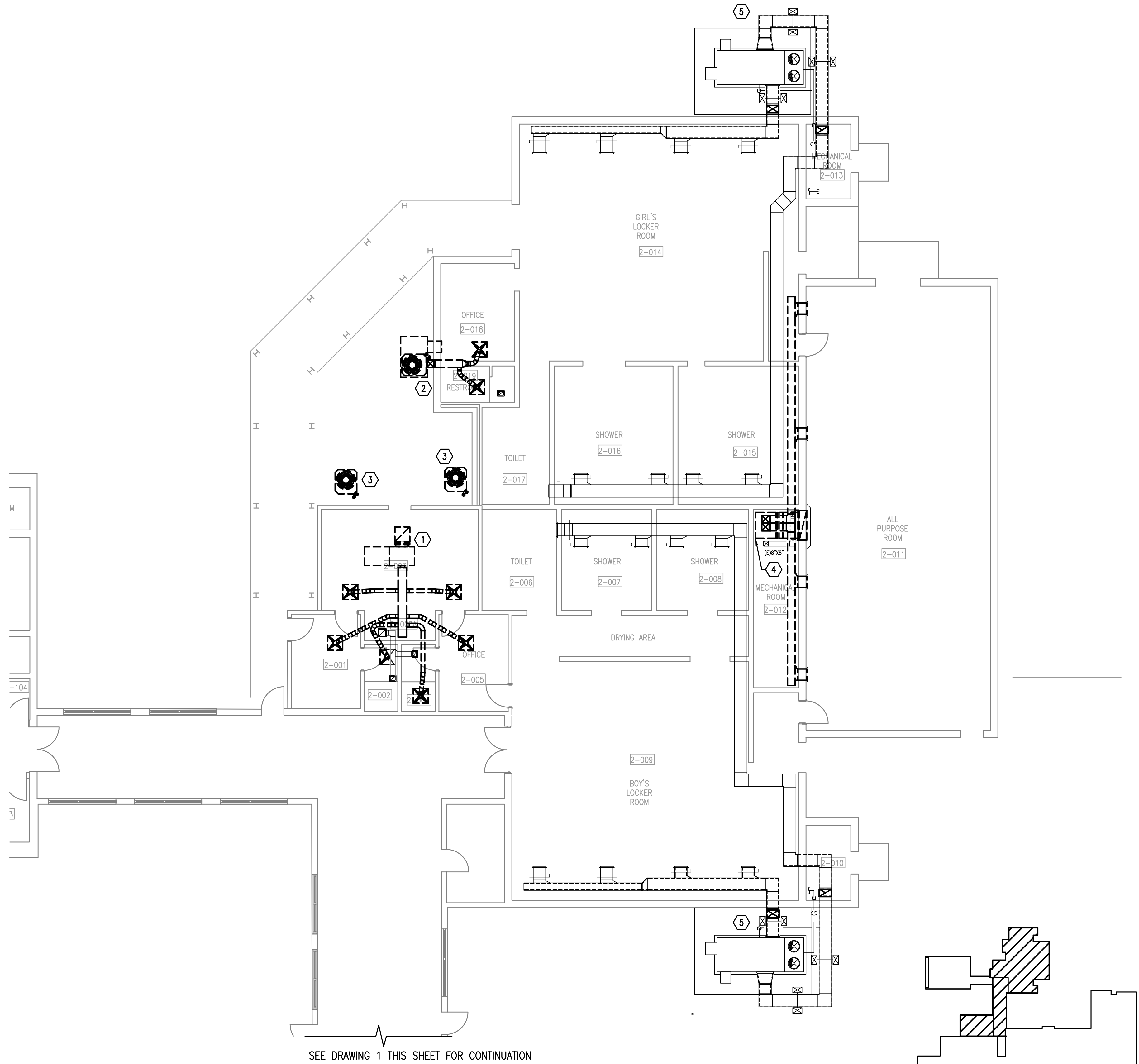
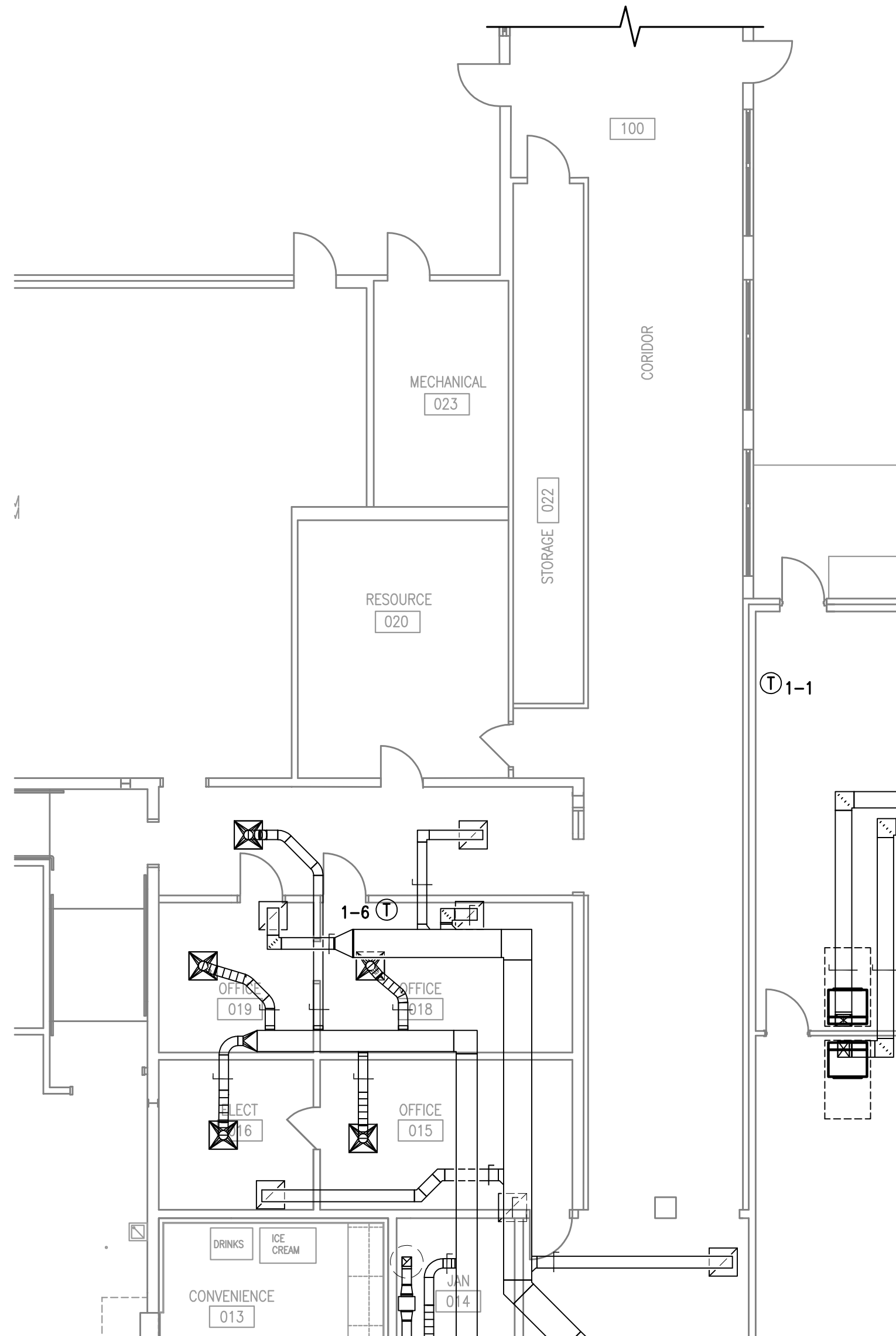
KEY PLAN  
NOT TO SCALE



## SHEET NOTES

- ① DEMOLISH AND REMOVE EXISTING DX EQUIPMENT, SUPPLY AND RETURN DUCTWORK AND GRILLES. REMOVE EXISTING CONTROLS COMPLETE. REPLACE ALL EXISTING THERMOSTATS WITH NEW DDC THERMOSTAT/HUMIDISTAT AS NOTED. MATCH NEW THERMOSTAT LOCATION TO EXISTING HEIGHT/LOCATION.
- ② DEMOLISH AND REMOVE EXISTING PACKAGED DX EQUIPMENT, DUCTWORK AND GRILLES. REMOVE EXISTING CONTROLS COMPLETE. SEAL RETURN AIR DUCT PENETRATION WEATHER TIGHT. SUPPLY AIR EXTERIOR PENETRATION TO REMAIN AND BE RE-USED FOR OUTSIDE AIR LOUVER. REPLACE EXISTING THERMOSTATS WITH NEW DDC THERMOSTAT/HUMIDISTAT AS NOTED. MATCH NEW THERMOSTAT LOCATION TO EXISTING HEIGHT/LOCATION.
- ③ APPROXIMATE LOCATION OF OUTSIDE CONDENSING UNIT. DEMOLISH UNIT AND ASSOCIATED PIPING COMPLETE.
- ④ DEMOLISH AND REMOVE EXISTING DX EQUIPMENT, SUPPLY AND RETURN DUCTWORK, AND EXISTING CONTROLS COMPLETE. OUTSIDE AIR DUCT AND SUPPLY/RETURN GRILLES TO REMAIN. REPLACE EXISTING THERMOSTAT WITH NEW DDC THERMOSTAT/HUMIDISTAT AS NOTED. MATCH NEW THERMOSTAT LOCATION TO EXISTING HEIGHT/LOCATION.
- ⑤ EXISTING ERV UNITS AND DUCTWORK TO REMAIN. SHOWN FOR COORDINATION ONLY.

SEE DRAWING 2 THIS SHEET FOR CONTINUATION



SEAL

NOT FOR CONSTRUCTION

REVISION NUMBER	REVISION DESCRIPTION

KING MIDDLE SCHOOL  
HVAC RENOVATION PH. B  
SANTA ROSA COUNTY SCHOOL DISTRICT

DESIGNED BY:  
CAP

DRAWN BY:  
CAP

CHECKED BY:  
WJJ

DATE:  
DECEMBER 5, 2018

**SHEET TITLE:**

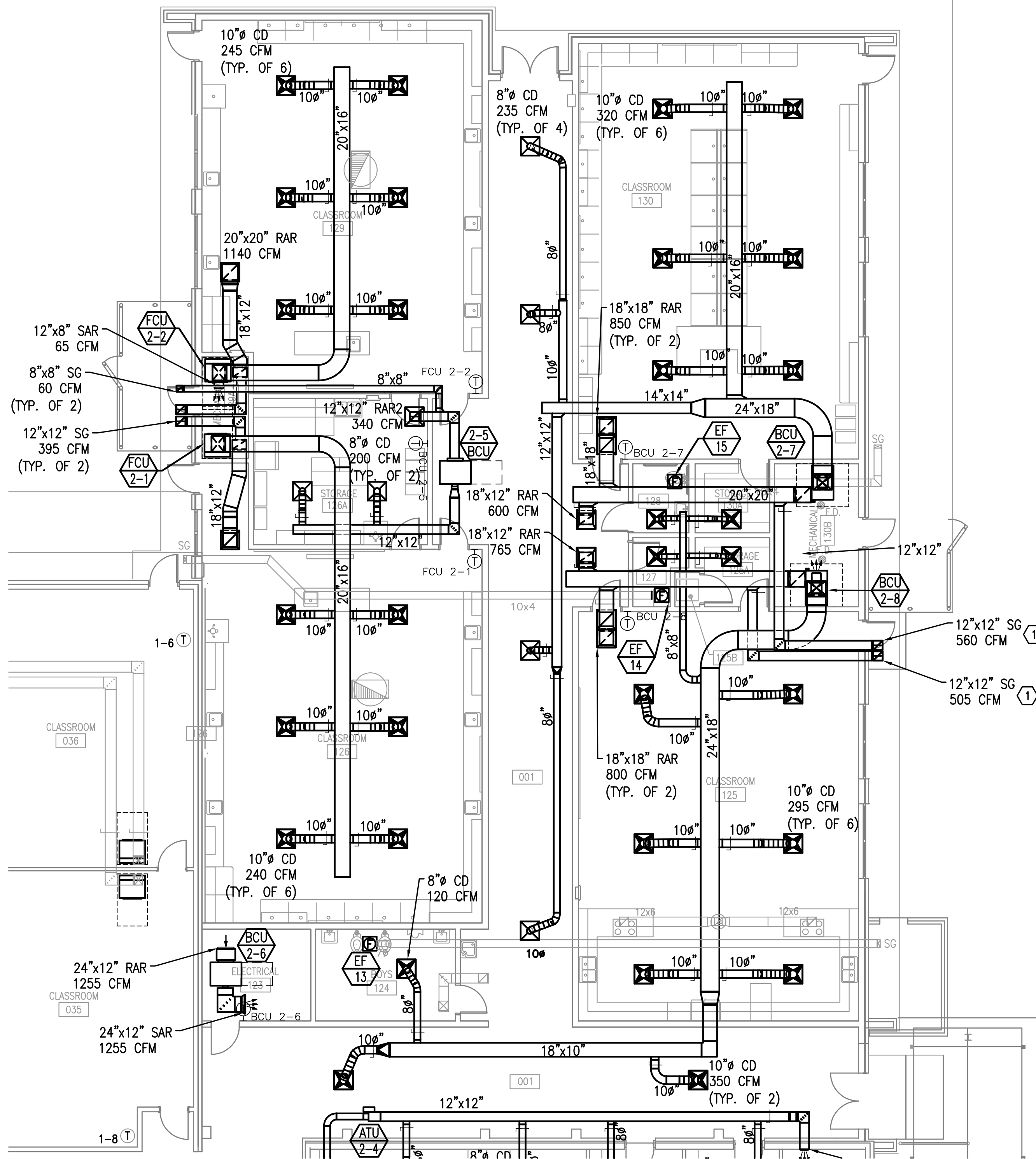
PARTIAL  
MECHANICAL  
DEMOLITION  
PLAN

**SHEET:**

M207

KEY PLAN  
NOT TO SCALE





## PHASING NOTES

1. CONTRACTOR SHALL NOT DEMOLISH EXISTING HVAC SYSTEM SERVING THE AREAS UNTIL NEW CHILLED WATER UNITS ARE RUNNING AND MAINTAINING SPACE CONDITION FOR 72 HOURS.
2. EXISTING MECHANICAL ROOM SHALL BE CLEANED FROM ANY EXISTING DEBRIS. SEAL ALL EXISTING OPENINGS WEATHER TIGHT. SEAL ALL UNUSED OPENINGS WEATHER TIGHT.

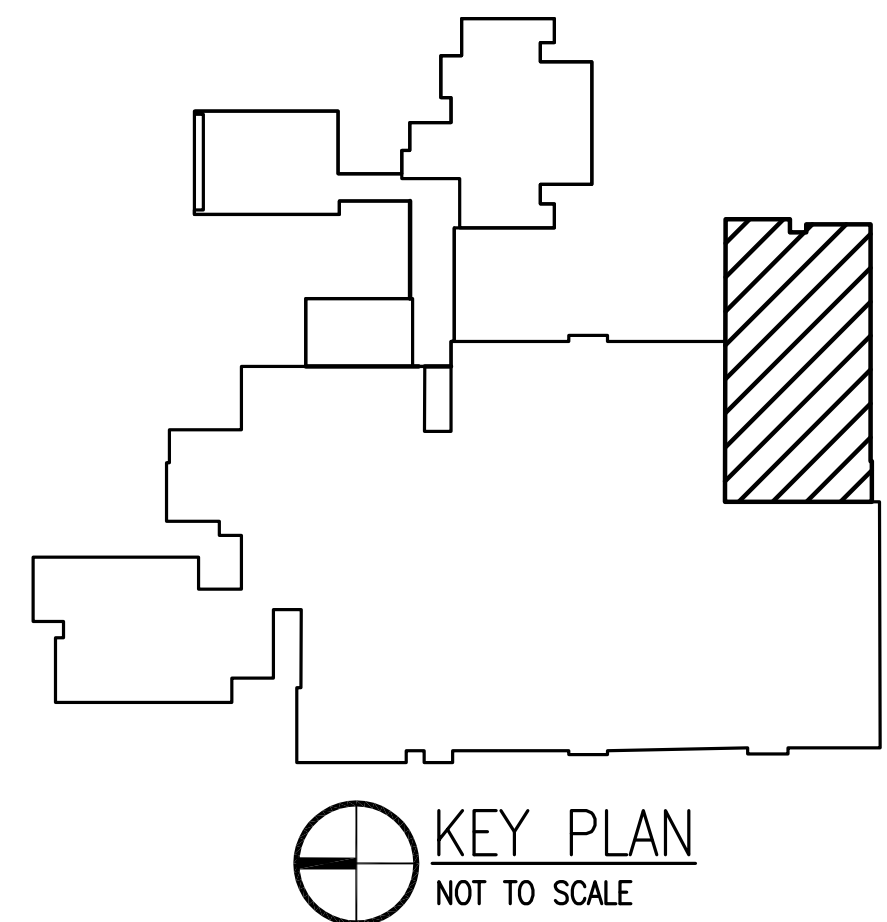
## GENERAL NOTES

1. COORDINATE LOCATION OF NEW DIFFUSERS WITH EXISTING LIGHT FIXTURES
2. COORDINATE LOCATION OF GRAVITY VENTILATORS AND ROOF PENETRATIONS WITH EXISTING STRUCTURE.
3. PROVIDE OUTSIDE AIR MOTORIZED DAMPER FOR EACH BLOWER COIL UNIT (BCU). COORDINATE MOTORIZED DAMPER ACTUATOR WITH CONTROLS CONTRACTOR.

## SHEET NOTES

- ① USE EXISTING OUTSIDE AIR LOUVER PENETRATION FOR NEW UNIT'S OUTSIDE AIR SOFFIT GRILLES

1 PARTIAL MECHANICAL PLAN  
8' 0' 8' 16'  
SCALE: 1/8"=1'-0"



SEAL

NOT FOR CONSTRUCTION

REVISION  
DESCRIPTION

REVISION  
NUMBER

KING MIDDLE SCHOOL  
HVAC RENOVATION PH. B  
SANTA ROSA COUNTY SCHOOL DISTRICT

DESIGNED BY:  
CAP

DRAWN BY:  
CAP

CHECKED BY:  
WJJ

DATE:  
SEPTEMBER 25, 2018

SHEET TITLE:  
PARTIAL  
MECHANICAL  
PLAN

SHEET:  
M301



REVISION NUMBER	REVISION DESCRIPTION

KING MIDDLE SCHOOL  
HVAC RENOVATION PH. B  
SANTA ROSA COUNTY SCHOOL DISTRICT

DESIGNED BY:  
CAP  
DRAWN BY:  
CAP  
CHECKED BY:  
WJJ  
DATE:  
SEPTEMBER 25, 2018

SHEET TITLE:  
PARTIAL  
MECHANICAL  
PLAN

SHEET:  
M302

PHASING NOTES

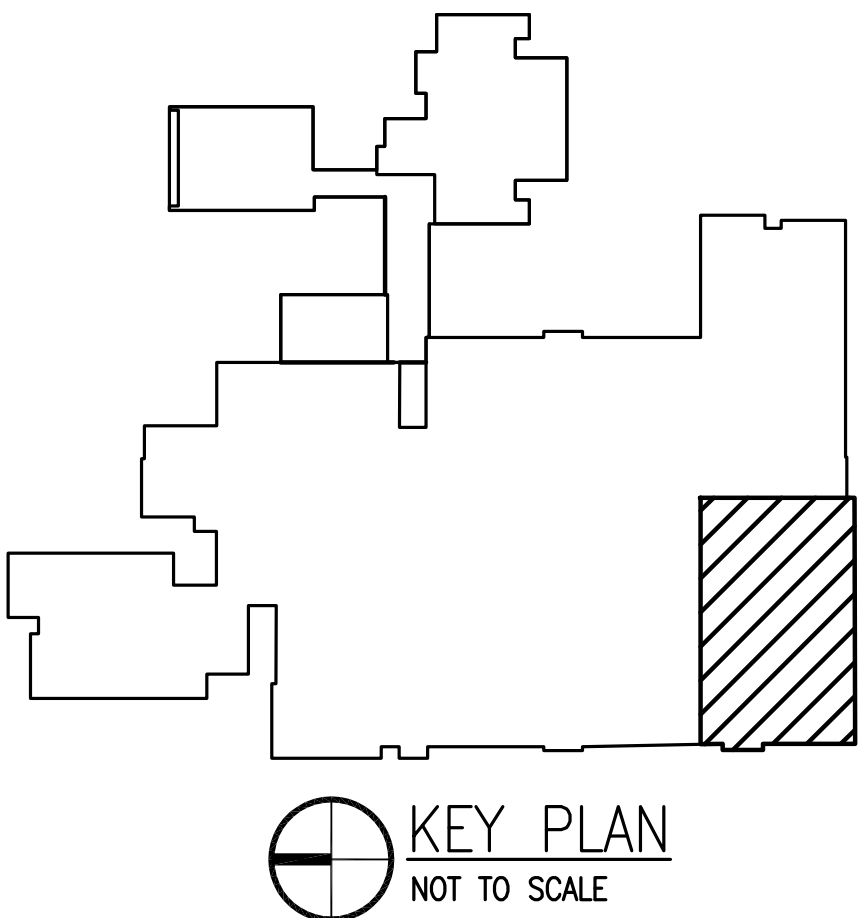
- CONTRACTOR SHALL NOT DEMOLISH EXISTING HVAC SYSTEM SERVING THE AREAS UNTIL NEW CHILLED WATER UNITS ARE RUNNING AND MAINTAINING SPACE CONDITION FOR 72 HOURS.
- EXISTING MECHANICAL ROOM SHALL BE CLEANED FROM ANY EXISTING DEBRIS. SEAL ALL EXISTING OPENINGS WEATHER TIGHT. SEAL ALL UNUSED OPENINGS WEATHER TIGHT.

GENERAL NOTES

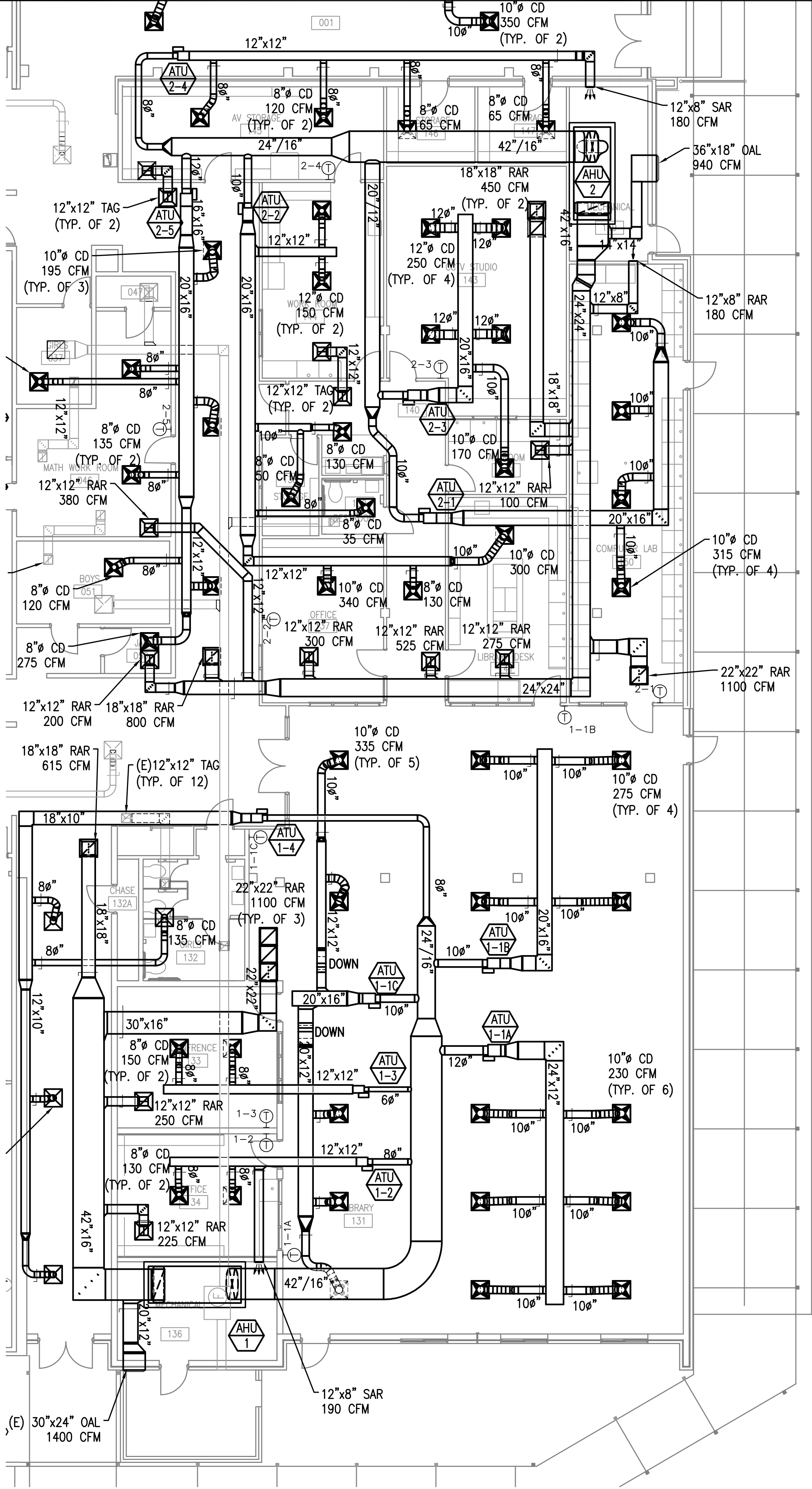
- COORDINATE LOCATION OF NEW DIFFUSERS WITH EXISTING LIGHT FIXTURES
- COORDINATE LOCATION OF GRAVITY VENTILATORS AND ROOF PENETRATIONS WITH EXISTING STRUCTURE.
- PROVIDE OUTSIDE AIR MOTORIZED DAMPER FOR EACH BLOWER COIL UNIT (BCU). COORDINATE MOTORIZED DAMPER ACTUATOR WITH CONTROLS CONTRACTOR.

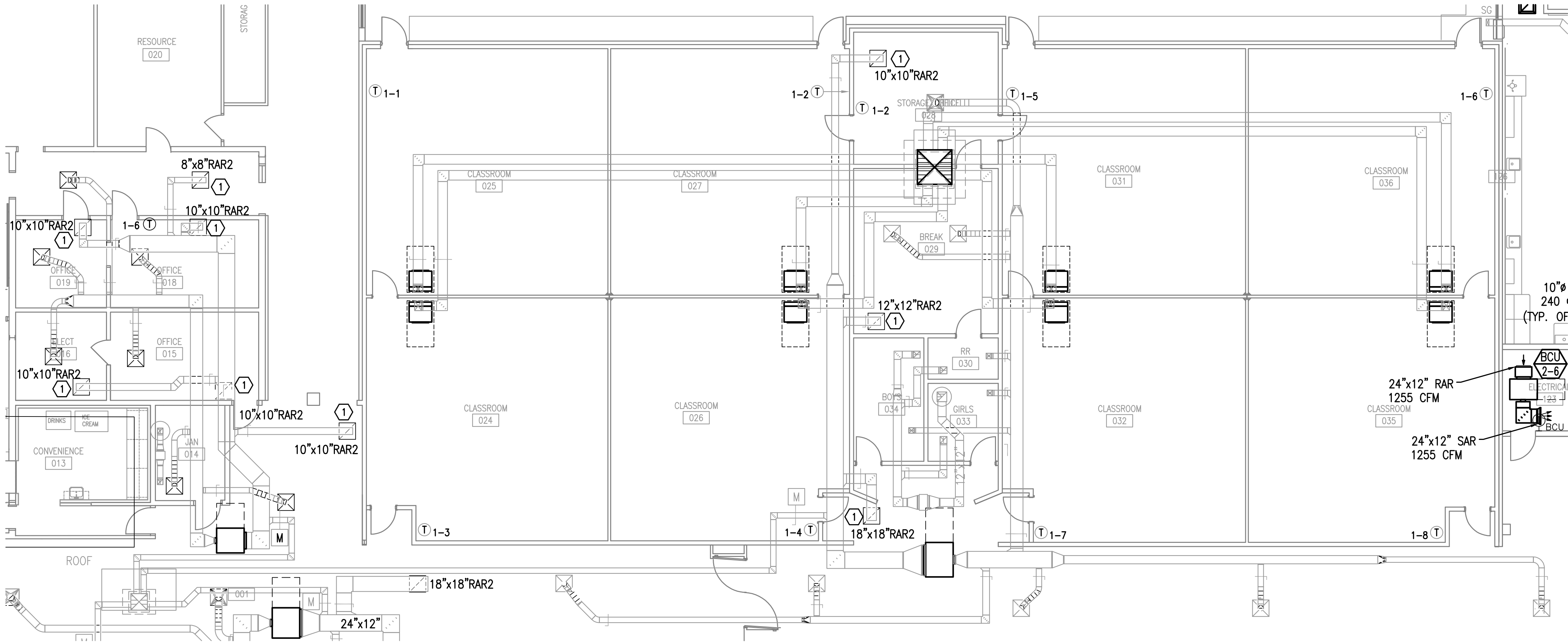
SHEET NOTES

- ① USE EXISTING OUTSIDE AIR LOUVER FOR NEW UNIT'S OUTSIDE AIR DUCT.



1 PARTIAL MECHANICAL PLAN  
8' 0' 8' 16'  
SCALE: 1/8"=1'-0"

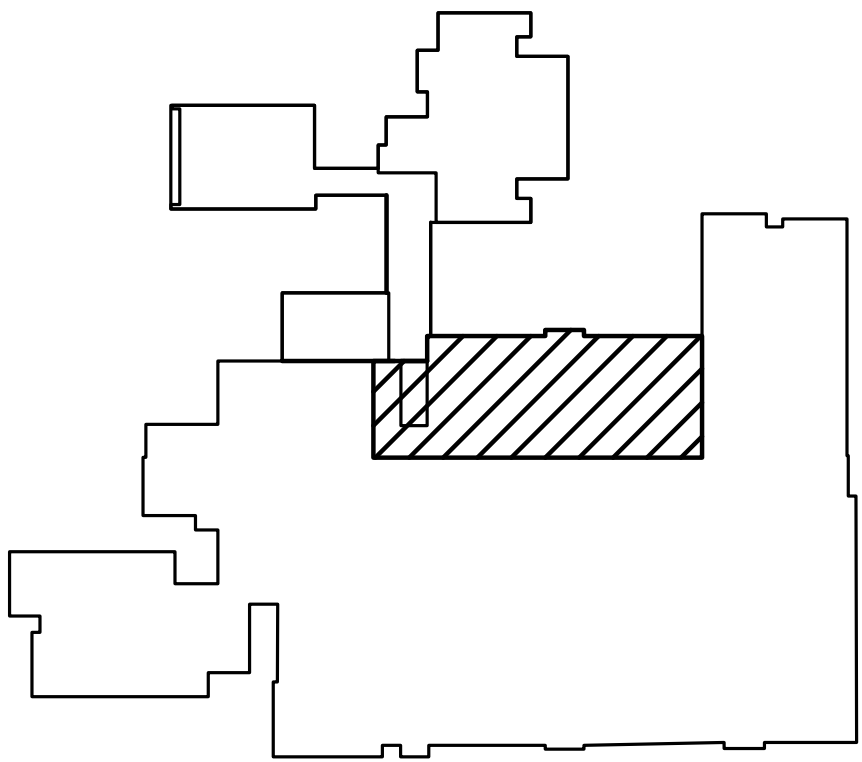




SHEET NOTES

1 INSTALL RETURN FILTER REGISTER THE SAME SIZE AS PREVIOUS RETURN REGISTER.

1 PARTIAL MECHANICAL PLAN  
8' 0' 8' 16'  
SCALE: 1/8"=1'-0"



KEY PLAN  
NOT TO SCALE

SEAL

NOT FOR CONSTRUCTION

REVISION NUMBER	REVISION DESCRIPTION

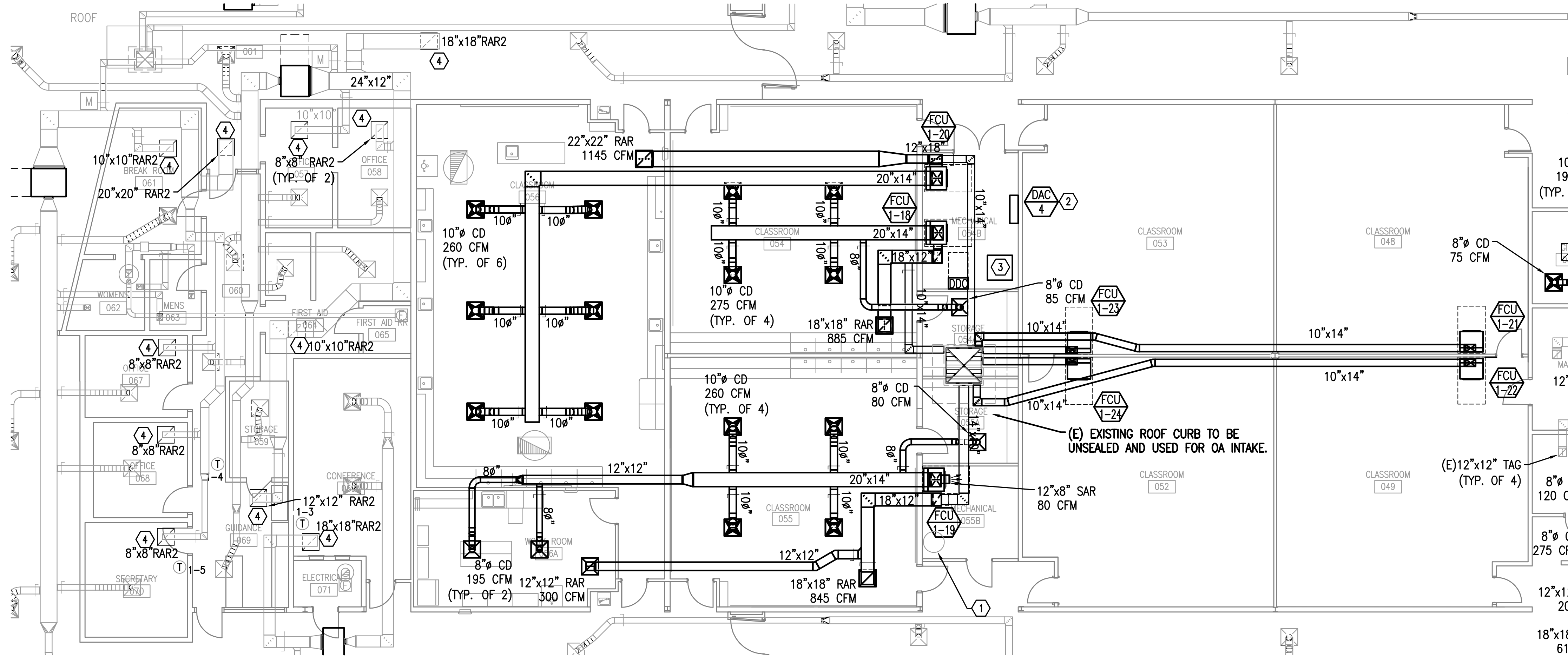
KING MIDDLE SCHOOL  
HVAC RENOVATION PH. B  
SANTA ROSA COUNTY SCHOOL DISTRICT

DESIGNED BY:  
CAP  
DRAWN BY:  
CAP  
CHECKED BY:  
WJJ  
DATE:  
SEPTEMBER 25, 2018

SHEET TITLE:  
PARTIAL  
MECHANICAL  
PLAN

SHEET:  
M303





PHASING NOTES

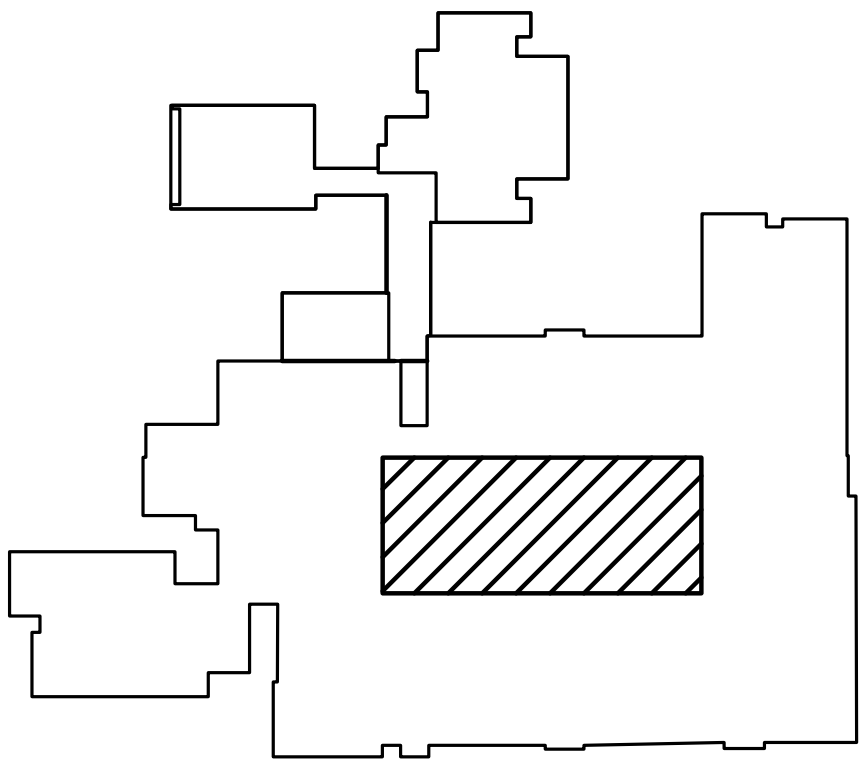
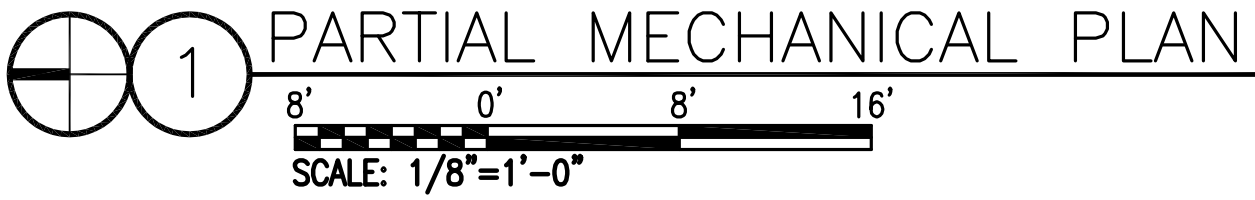
- 1. CONTRACTOR SHALL NOT DEMOLISH EXISTING HVAC SYSTEM SERVING THE AREAS UNTIL NEW CHILLED WATER UNITS ARE RUNNING AND MAINTAINING SPACE CONDITION FOR 72 HOURS.
- 2. EXISTING MECHANICAL ROOM SHALL BE CLEANED FROM ANY EXISTING DEBRIS. SEAL ALL EXISTING OPENINGS WEATHER TIGHT. SEAL ALL UNUSED OPENINGS WEATHER TIGHT.

GENERAL NOTES

- 1. COORDINATE LOCATION OF NEW DIFFUSERS WITH EXISTING LIGHT FIXTURES
- 2. COORDINATE LOCATION OF GRAVITY VENTILATORS AND ROOF PENETRATIONS WITH EXISTING STRUCTURE.
- 3. PROVIDE OUTSIDE AIR MOTORIZED DAMPER FOR EACH BLOWER COIL UNIT (BCU). COORDINATE MOTORIZED DAMPER ACTUATOR WITH CONTROLS CONTRACTOR.

SHEET NOTES

- 1 EXISTING WATER HEATER. SHOWN FOR COORDINATION ONLY.
- 2 OUTDOOR CONDENSING UNIT LOCATED ON ROOF. SEE SHEET M102 FOR LOCATION.
- 3 EXISTING TRANSFORMER SHOWN FOR COORDINATION ONLY.
- 4 INSTALL RETURN FILTER REGISTER THE SAME SIZE AS PREVIOUS RETURN REGISTER.



KEY PLAN  
NOT TO SCALE

SEAL

NOT FOR CONSTRUCTION

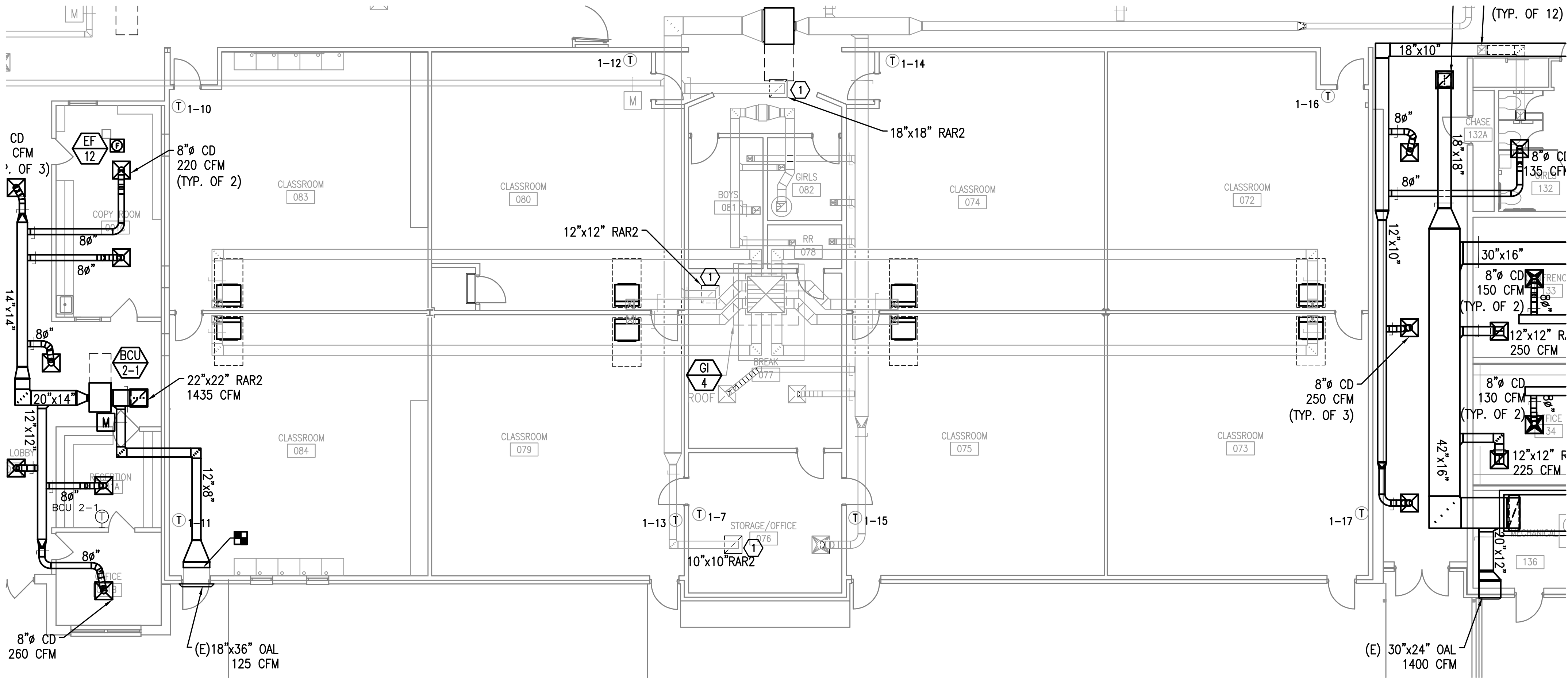
REVISION NUMBER	REVISION DESCRIPTION

KING MIDDLE SCHOOL  
HVAC RENOVATION PH. B  
SANTA ROSA COUNTY SCHOOL DISTRICT

DESIGNED BY:  
CAP  
DRAWN BY:  
CAP  
CHECKED BY:  
WJJ  
DATE:  
SEPTEMBER 25, 2018

SHEET TITLE:  
PARTIAL  
MECHANICAL  
PLAN

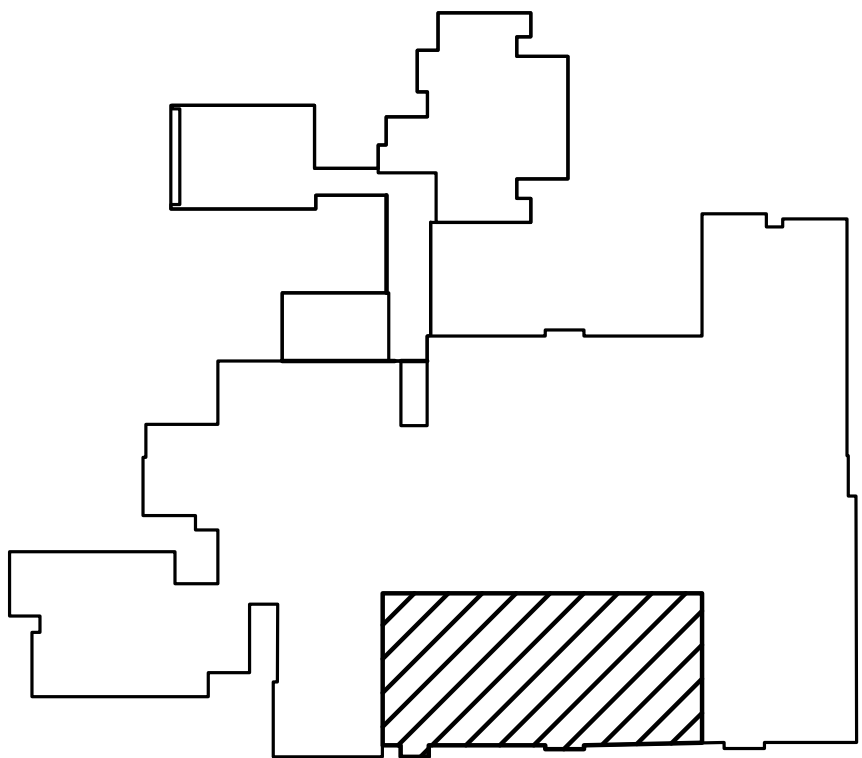
SHEET:  
M304



SHEET NOTES

① INSTALL RETURN FILTER REGISTER THE SAME SIZE AS PREVIOUS RETURN REGISTER.

1 PARTIAL MECHANICAL PLAN  
8' 0' 8' 16'  
SCALE: 1/8"=1'-0"



KEY PLAN  
NOT TO SCALE

SEAL

NOT FOR CONSTRUCTION

REVISION  
DESCRIPTION

REVISION  
NUMBER

KING MIDDLE SCHOOL  
HVAC RENOVATION PH. B  
SANTA ROSA COUNTY SCHOOL DISTRICT

DESIGNED BY:  
CAP

DRAWN BY:  
CAP

CHECKED BY:  
WJJ

DATE:  
SEPTEMBER 25, 2018

SHEET TITLE:  
PARTIAL  
MECHANICAL  
PLAN

SHEET:  
M305



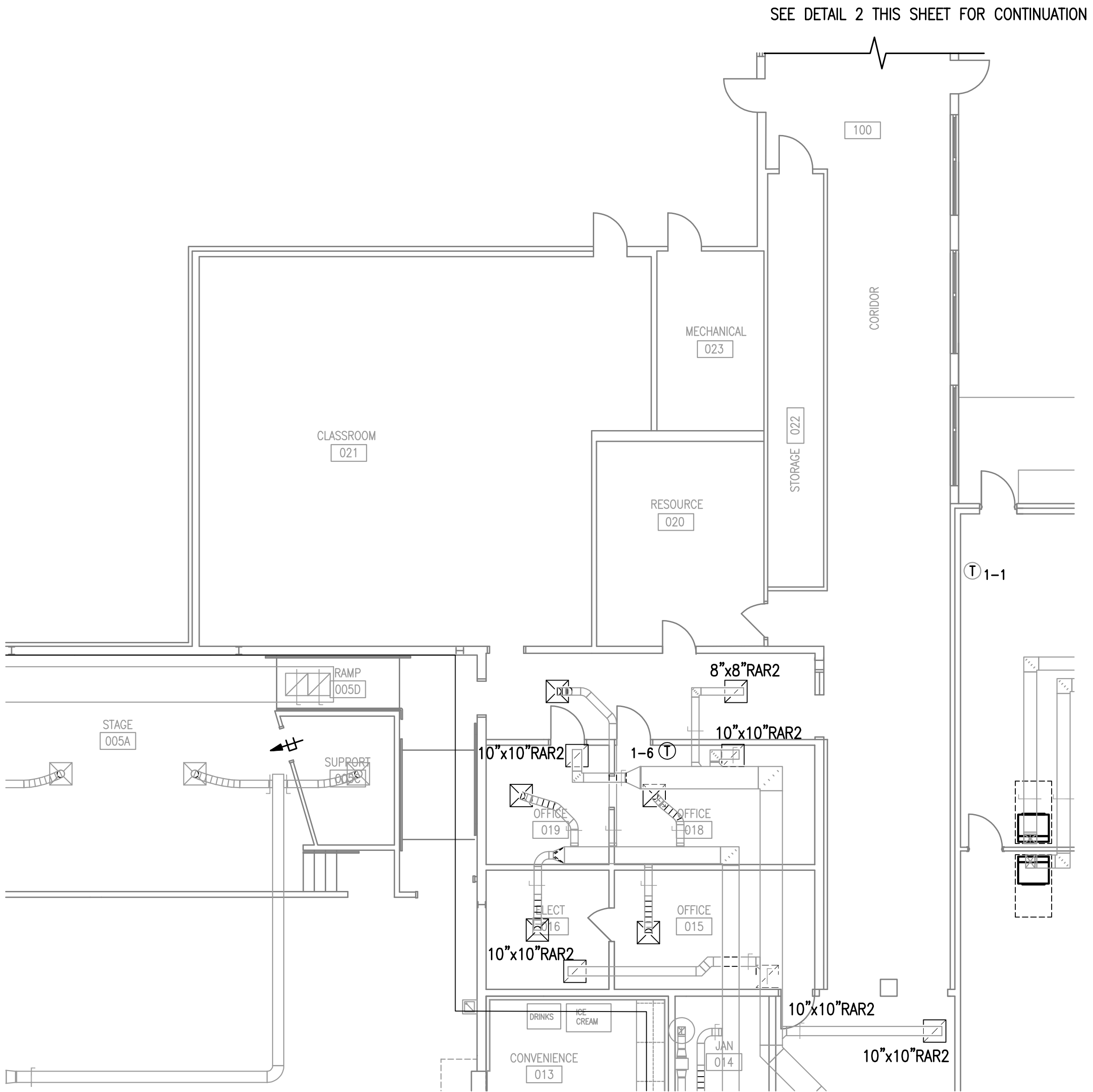


PHASING NOTES

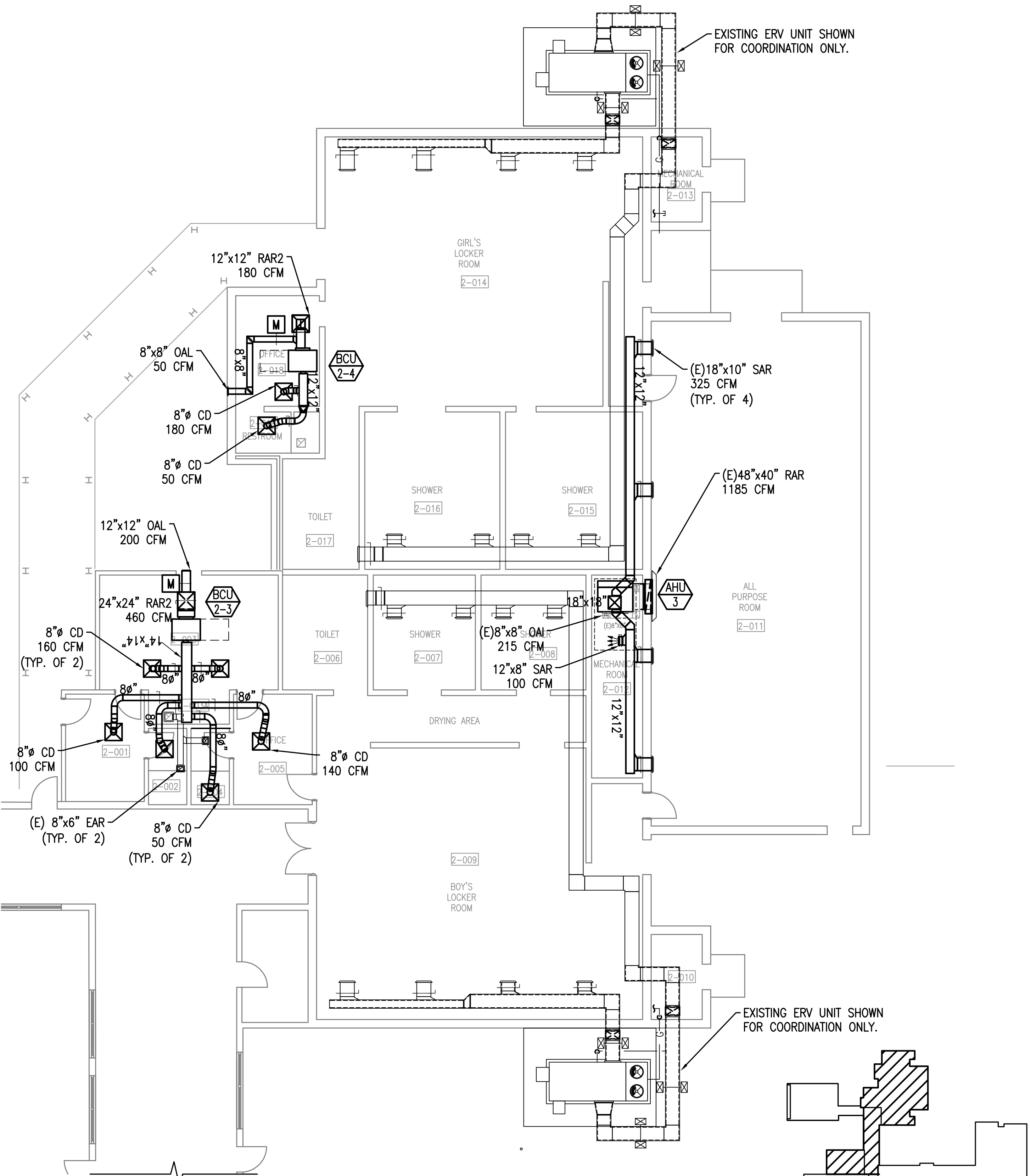
- 1. CONTRACTOR SHALL NOT DEMOLISH EXISTING HVAC SYSTEM SERVING THE AREAS UNTIL NEW CHILLED WATER UNITS ARE RUNNING AND MAINTAINING SPACE CONDITION FOR 72 HOURS.
- 2. EXISTING MECHANICAL ROOM SHALL BE CLEANED FROM ANY EXISTING DEBRIS. SEAL ALL EXISTING OPENINGS WEATHER TIGHT. SEAL ALL UNUSED OPENINGS WEATHER TIGHT.

GENERAL NOTES

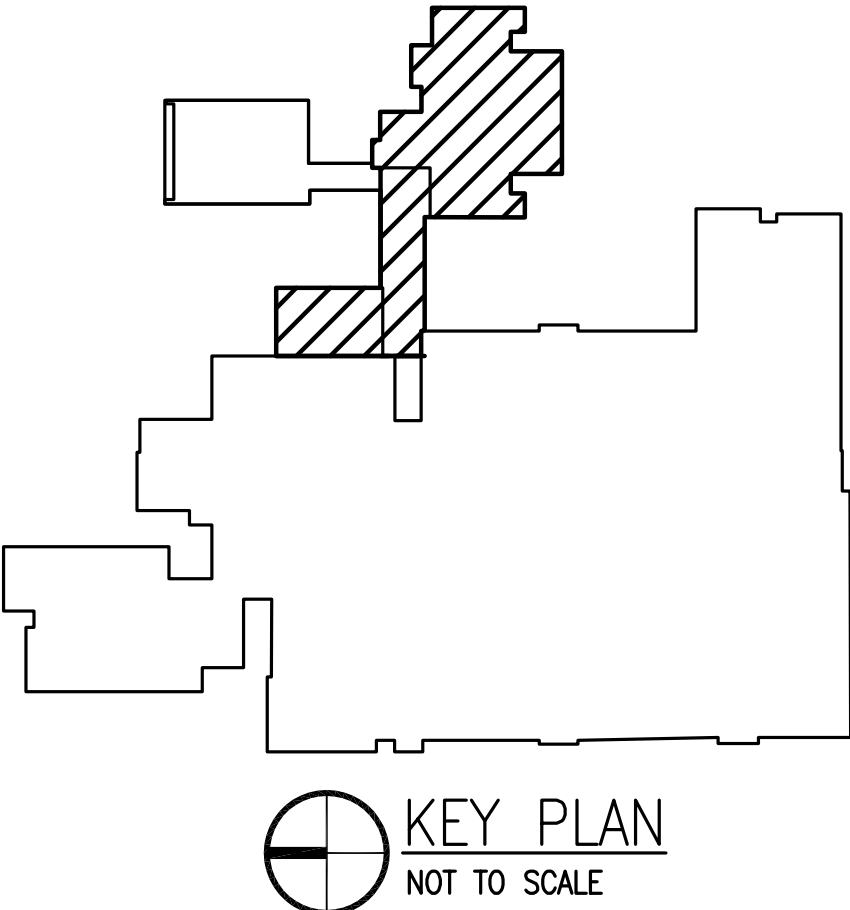
- 1. COORDINATE LOCATION OF NEW DIFFUSERS WITH EXISTING LIGHT FIXTURES
- 2. COORDINATE LOCATION OF GRAVITY VENTILATORS AND ROOF PENETRATIONS WITH EXISTING STRUCTURE.
- 3. PROVIDE OUTSIDE AIR MOTORIZED DAMPER FOR EACH BLOWER COIL UNIT (BCU). COORDINATE MOTORIZED DAMPER ACTUATOR WITH CONTROLS CONTRACTOR.



1 PARTIAL MECHANICAL PLAN  
SCALE: 1/8"=1'-0"



2 PARTIAL MECHANICAL PLAN  
SCALE: 1/8"=1'-0"



**SCHMIDT**  
CONSULTING GROUP, INC.  
MECHANICAL - ELECTRICAL - STRUCTURAL  
COMMUNICATIONS - INDUSTRIAL  
FLORIDA LICENSE NUMBER 05371  
901 W. Garden St., Pensacola, FL 32502  
P: 850-438-0050 • F: 850-432-4631  
WILLIAM JOSEPH JONES P.E.  
FLORIDA LICENSE NUMBER 56080

SEAL

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REVISION NUMBER	REVISION DESCRIPTION

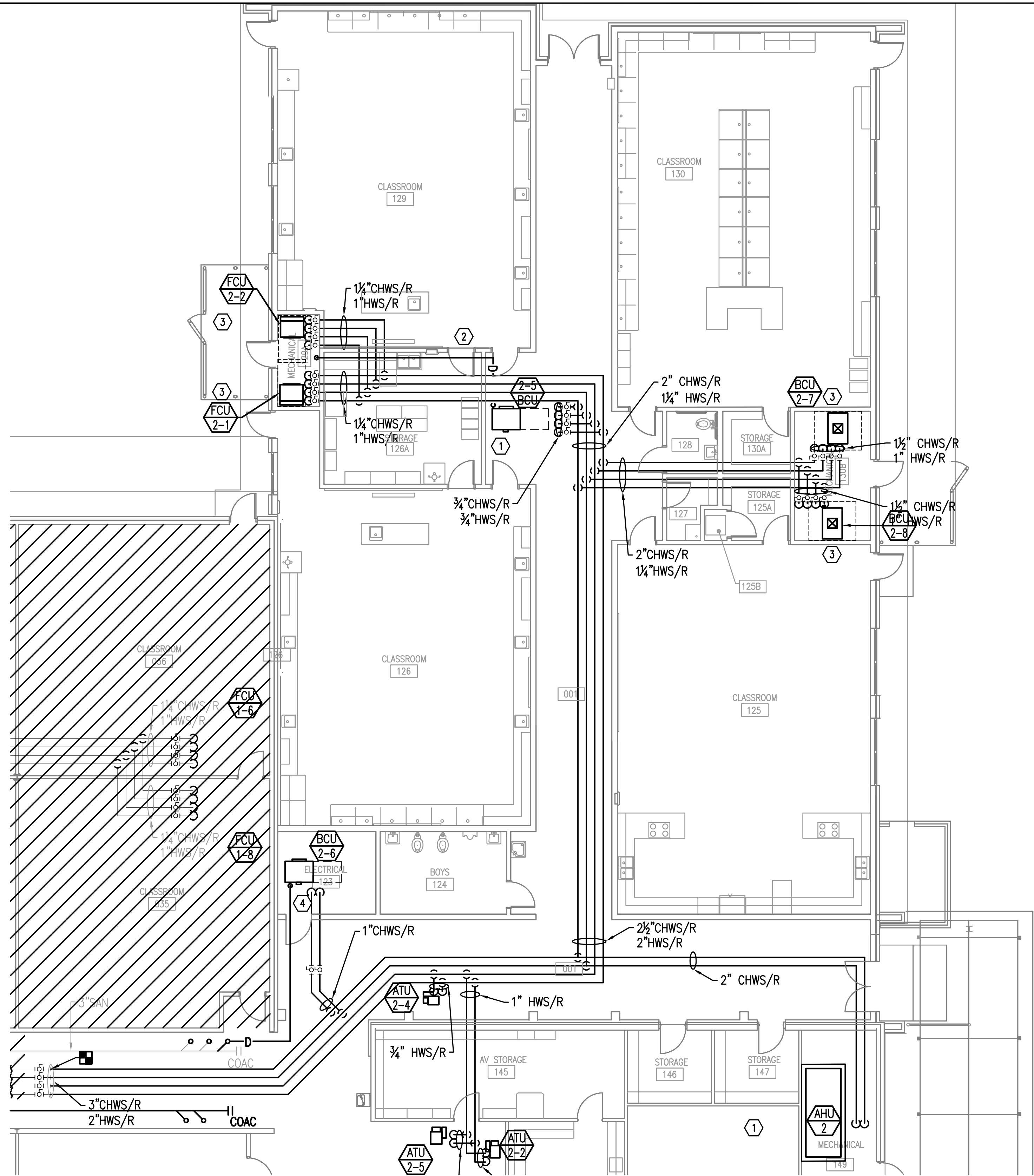
KING MIDDLE SCHOOL  
HVAC RENOVATION PH. B  
SANTA ROSA COUNTY SCHOOL DISTRICT

DESIGNED BY:  
CAP  
DRAWN BY:  
CAP  
CHECKED BY:  
WJJ  
DATE:  
SEPTEMBER 25, 2018

SHEET TITLE:  
PARTIAL  
MECHANICAL  
PLAN

SHEET:  
M307





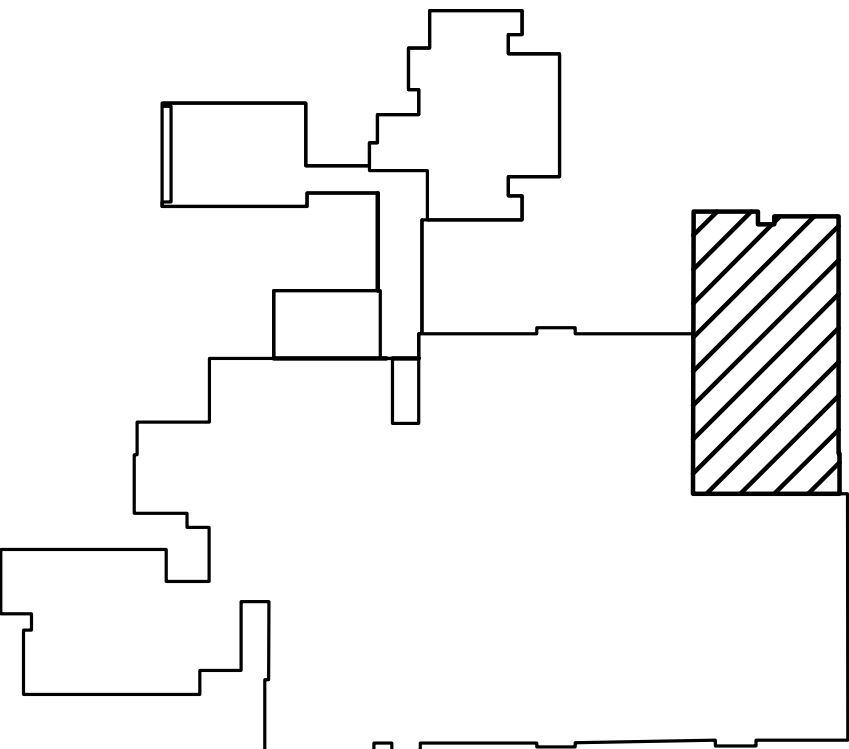
1 PARTIAL MECHANICAL PIPING PLAN  
8' 0' 8' 16'  
SCALE: 1/8"=1'-0"

SHEET NOTES

- 1 ROUTE CONDENSATE PIPING TO EXISTING FLOOR DRAIN LOCATED IN THE MECHANICAL ROOM. PROVIDE WITH AIR GAP. SECURE PIPING TO STRUCTURAL ELEMENTS. INSULATE PER SPECIFICATIONS. ROUTE ALONG OTHER CONDENSATE DRAIN AWAY FROM FCU FILTER RACK CLEARANCE.
- 2 ROUTE PIPING BESIDE DUCTWORK. PROVIDE TRANSITION AS REQUIRED.
- 3 ROUTE CONDENSATE PIPING AWAY FROM FILTER RACK CLEARANCE TO FLOOR DRAIN.
- 4 ROUTE CONDENSATE PIPING FROM BCU TO ABOVE CEILING HUB DRAIN LOCATED AT THE CORRIDOR. INSULATE PIPE PER SPECIFICATIONS.

GENERAL NOTES

1. HATCHED SYMBOL INDICATE NO NEW WORK TO BE PERFORMED IN THIS AREA.
2. UNLESS NOTED OTHERWISE, ALL PIPING RUNOUTS TO THE CLASSROOM FAN COIL UNIT (FCU) SHALL BE 1/4"CHWS/R AND 1"HWS/R. PROVIDE ALL UNIT WITH ISOLATION VALVE FOR UNIT MAINTENANCE.



KEY PLAN  
NOT TO SCALE

SEAL

NOT FOR CONSTRUCTION

REVISION  
DESCRIPTION

REVISION  
NUMBER

KING MIDDLE SCHOOL  
HVAC RENOVATION PH. B  
SANTA ROSA COUNTY SCHOOL DISTRICT

DESIGNED BY:  
CAP

DRAWN BY:  
CAP

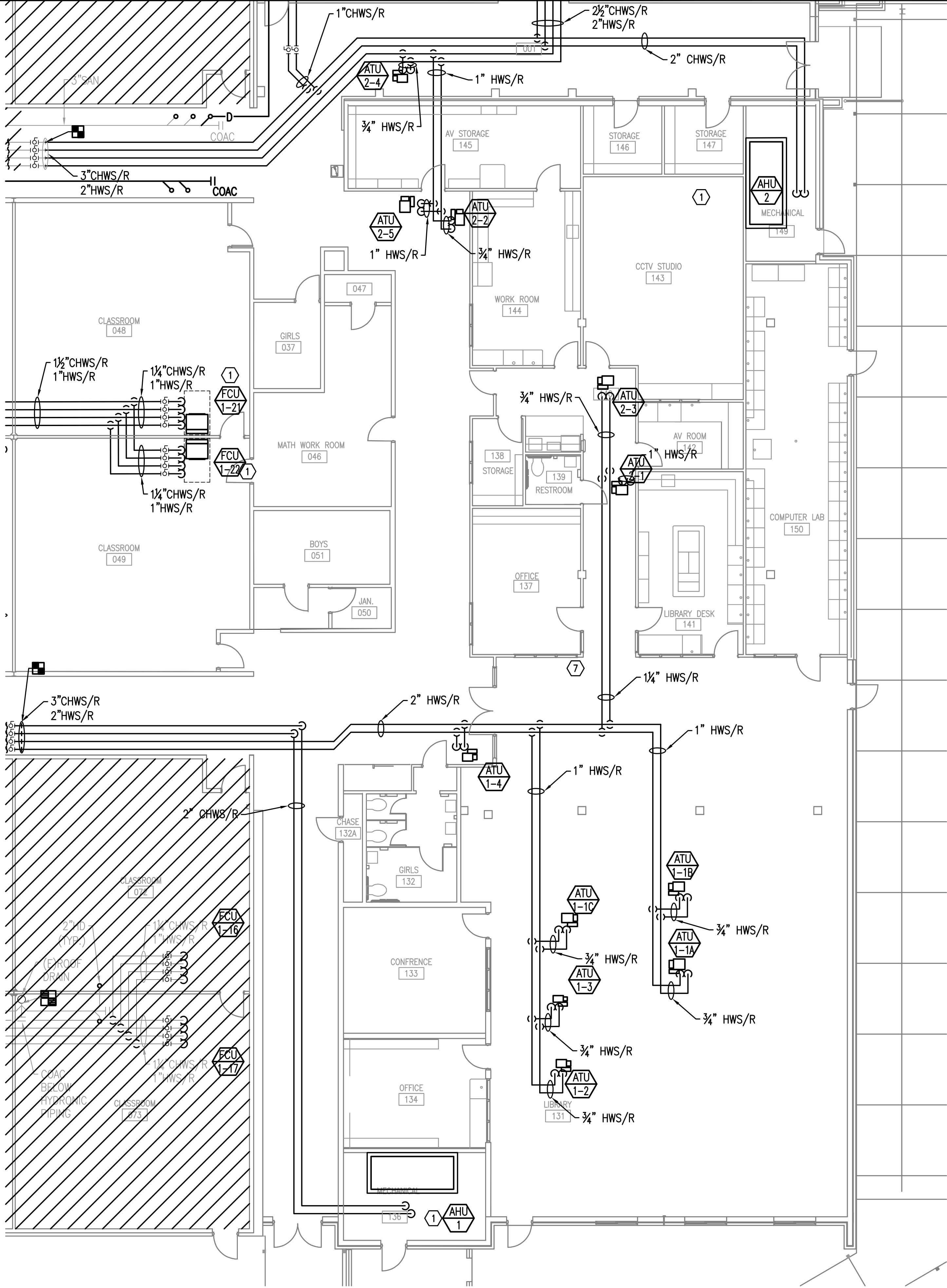
CHECKED BY:  
WJJ

DATE:  
SEPTEMBER 25, 2018

SHEET TITLE:  
PARTIAL  
MECHANICAL  
PIPING PLAN

SHEET:

M401

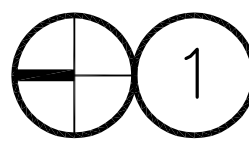


### SHEET NOTES

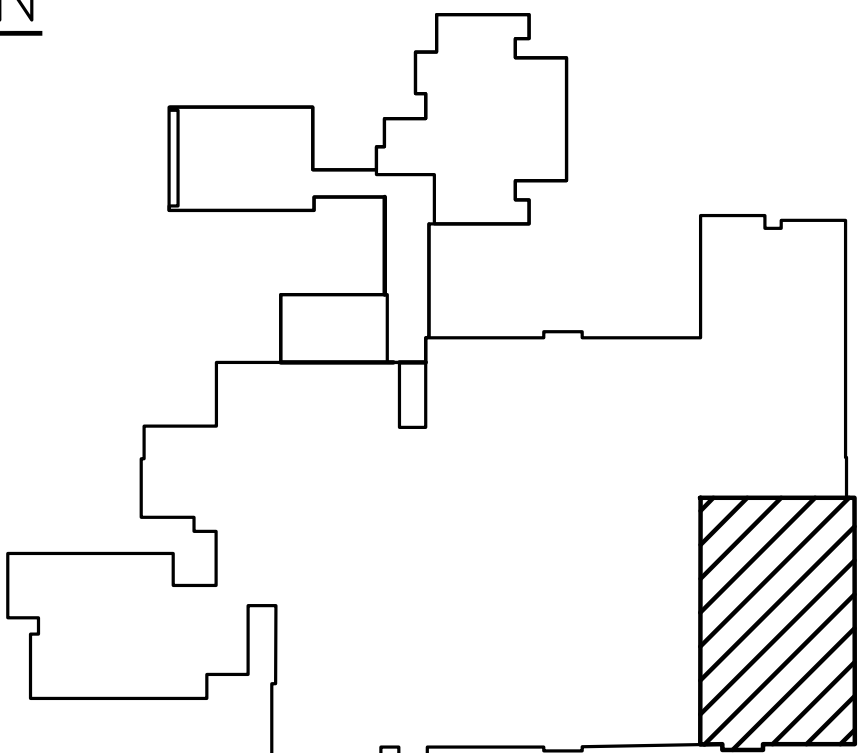
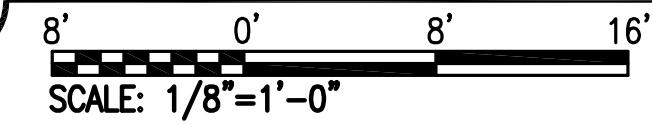
- ① ROUTE CONDENSATE PIPING TO EXISTING FLOOR DRAIN LOCATED IN THE MECHANICAL ROOM. PROVIDE WITH AIR GAP. SECURE PIPING TO STRUCTURAL ELEMENTS. INSULATE PER SPECIFICATIONS. ROUTE ALONG OTHER CONDENSATE DRAIN AWAY FROM AHU FILTER RACK CLEARANCE.

### GENERAL NOTES

1. HATCHED SYMBOL INDICATE NO NEW WORK TO BE PERFORMED IN THIS AREA.



### PARTIAL MECHANICAL PIPING PLAN



KEY PLAN  
NOT TO SCALE

SEAL  
*NOT FOR CONSTRUCTION*

REVISION NUMBER	REVISION DESCRIPTION

## KING MIDDLE SCHOOL HVAC RENOVATION PH. B SANTA ROSA COUNTY SCHOOL DISTRICT

DESIGNED BY:  
CAP  
DRAWN BY:  
CAP  
CHECKED BY:  
WJJ  
DATE:  
SEPTEMBER 25, 2018

SHEET TITLE:  
PARTIAL  
MECHANICAL  
PIPING PLAN

SHEET:  
**M402**



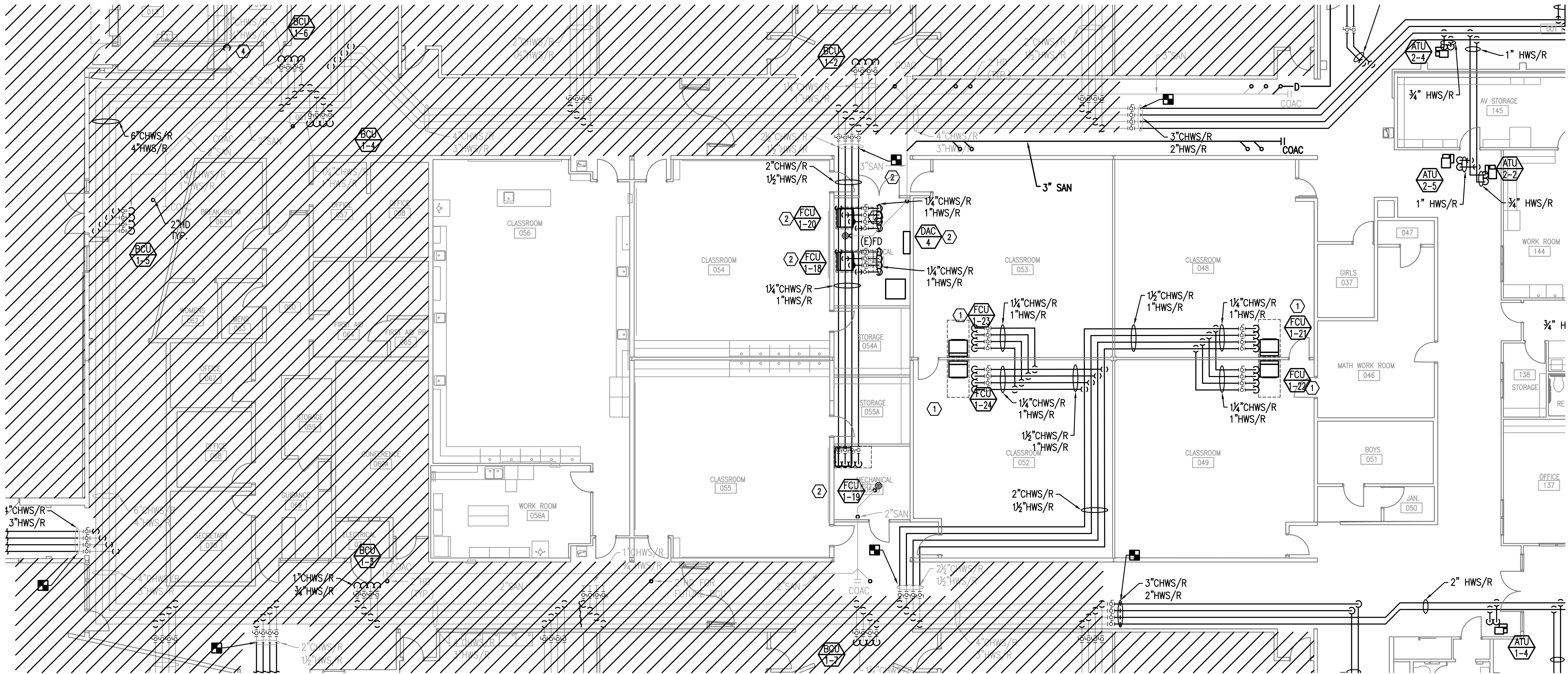
REVISION NUMBER	REVISION DESCRIPTION

**KING MIDDLE SCHOOL  
HVAC RENOVATION PH. B**  
SANTA ROSA COUNTY SCHOOL DISTRICT

DESIGNED BY:  
CAP  
DRAWN BY:  
CAP  
CHECKED BY:  
WJJ  
DATE:  
SEPTEMBER 25, 2018

SHEET TITLE:  
PARTIAL  
MECHANICAL  
PIPING PLAN

SHEET:  
**M403**



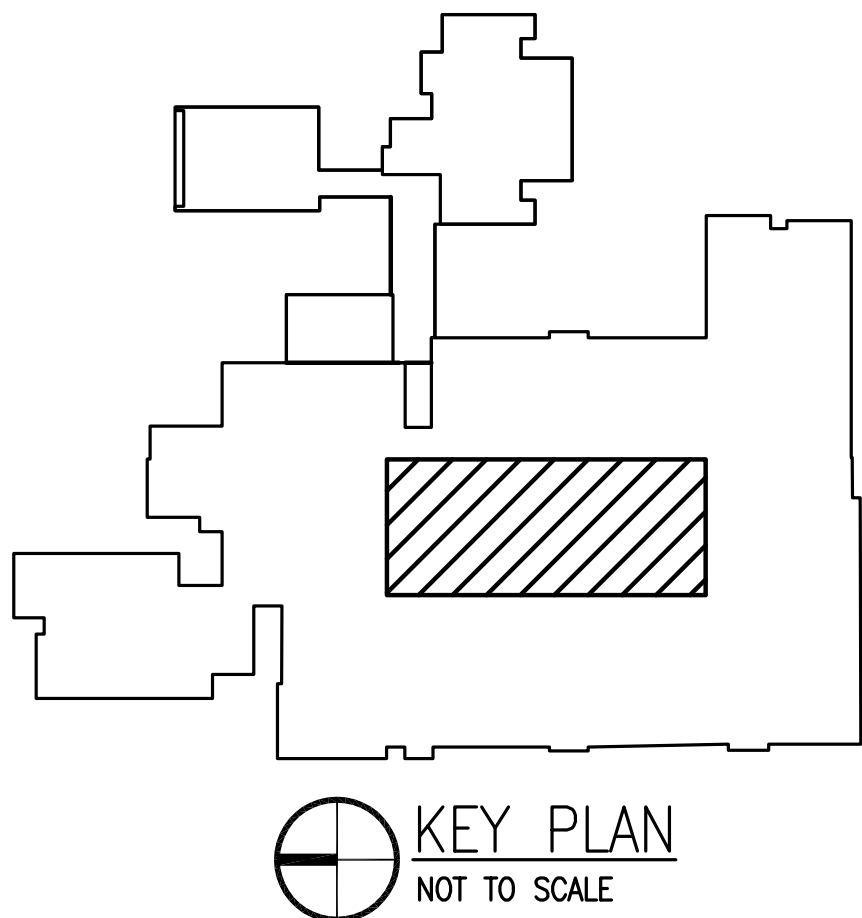
**SHEET NOTES**

1. ROUTE CONDENSATE PIPING FROM FCU UP TO ABOVE CEILING HUB DRAIN LOCATED AT THE CORRIDOR. INSULATE PIPE PER SPECIFICATIONS.
2. ROUTE CONDENSATE PIPING TO EXISTING FLOOR DRAIN LOCATED IN THE MECHANICAL ROOM. PROVIDE WITH AIR GAP. SECURE PIPING TO STRUCTURAL ELEMENTS. INSULATE PER SPECIFICATIONS. ROUTE ALONG OTHER CONDENSATE DRAIN AWAY FROM FCU FILTER RACK CLEARANCE.

**GENERAL NOTES**

1. HATCHED SYMBOL INDICATE NO NEW WORK TO BE PERFORMED IN THIS AREA.
2. UNLESS NOTED OTHERWISE, ALL PIPING RUNOUTS TO THE CLASSROOM FAN COIL UNIT (FCU) SHALL BE 1/4\"/>

**1 PARTIAL MECHANICAL PIPING PLAN**  
8' 0' 8' 16'  
SCALE: 1/8"=1'-0"





SEAL

NOT FOR CONSTRUCTION

REVISION  
DESCRIPTION

REVISION  
NUMBER

KING MIDDLE SCHOOL  
HVAC RENOVATION PH. B  
SANTA ROSA COUNTY SCHOOL DISTRICT

DESIGNED BY:  
CAP

DRAWN BY:  
CAP

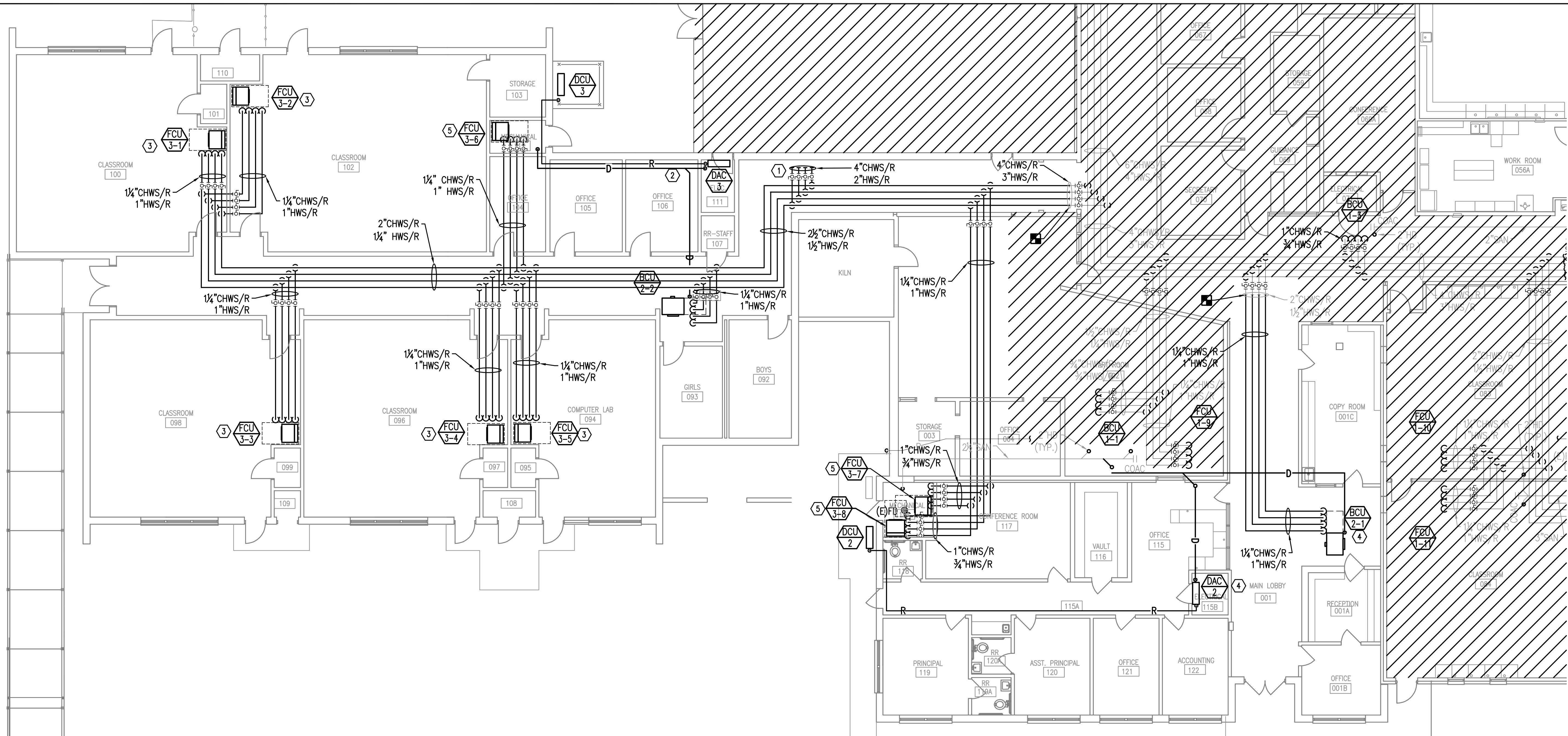
CHECKED BY:  
WJJ

DATE:  
SEPTEMBER 25, 2018

SHEET TITLE:  
PARTIAL  
MECHANICAL  
PIPING PLAN

SHEET:

M404



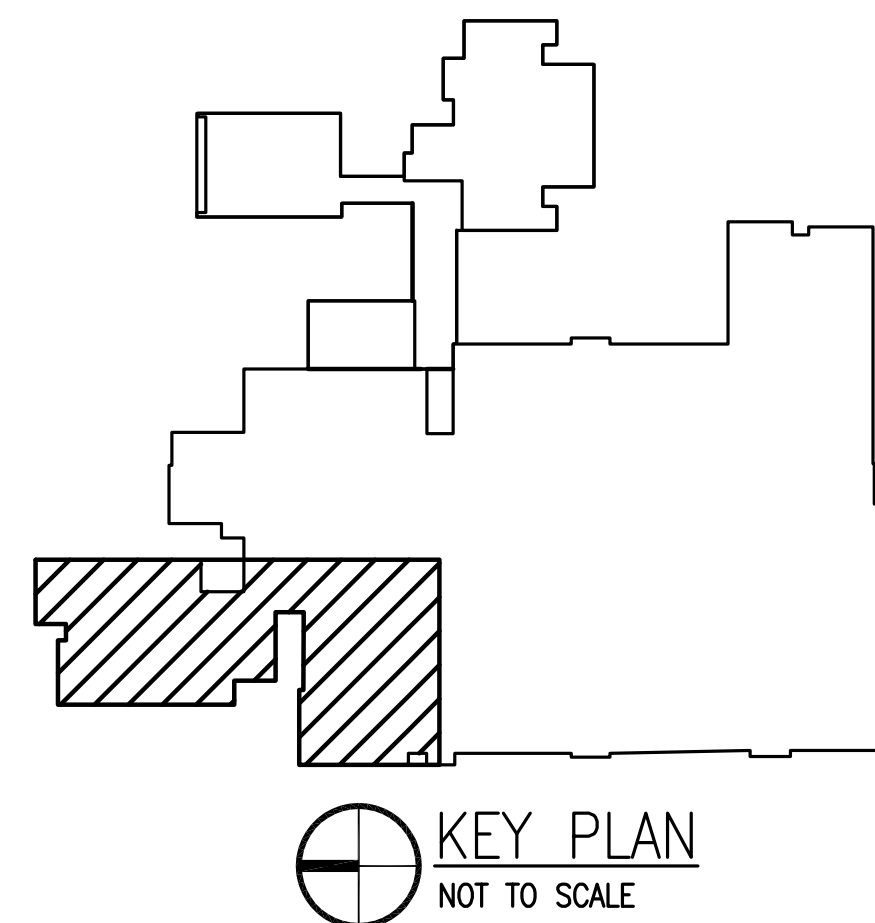
SHEET NOTES

1. PROVIDE ISOLATION VALVE AND BLIND FLANGE ABOVE CEILING FOR FUTURE CONNECTIONS. TYP.
2. ROUTE SAN PVC PIPING TO EXISTING FLOOR DRAIN LOCATED AT THE MECHANICAL ROOM. PROVIDE WITH AIR GAP. SECURE PIPING TO STRUCTURAL ELEMENTS. INSULATE PER SPECIFICATIONS.
3. ROUTE CONDENSATE PIPING UP FROM FCU TO FLOOR DRAIN IN CLOSEST MECHANICAL ROOM. PROVIDE WITH AIR GAP. SECURE PIPING TO STRUCTURAL ELEMENTS. INSULATE PER SPECIFICATIONS.
4. ROUTE CONDENSATE PIPING TO ABOVE CEILING HUB DRAIN LOCATED ABOVE ART ROOM. INSULATE PIPE PER SPECIFICATIONS.
5. ROUTE CONDENSATE PIPING TO FLOOR DRAIN IN MECHANICAL ROOM. PROVIDE WITH AIR GAP. SECURE PIPING TO STRUCTURAL ELEMENTS. INSULATE PER SPECIFICATIONS.

GENERAL NOTES

1. HATCHED SYMBOL INDICATE NO NEW WORK TO BE PERFORMED IN THIS AREA.
2. UNLESS NOTED OTHERWISE, ALL PIPING RUNOUTS TO THE CLASSROOM FAN COIL UNIT (FCU) SHALL BE 1/4\"/>

1 PARTIAL MECHANICAL PIPING PLAN  
8' 0' 8' 16'  
SCALE: 1/8\"/>





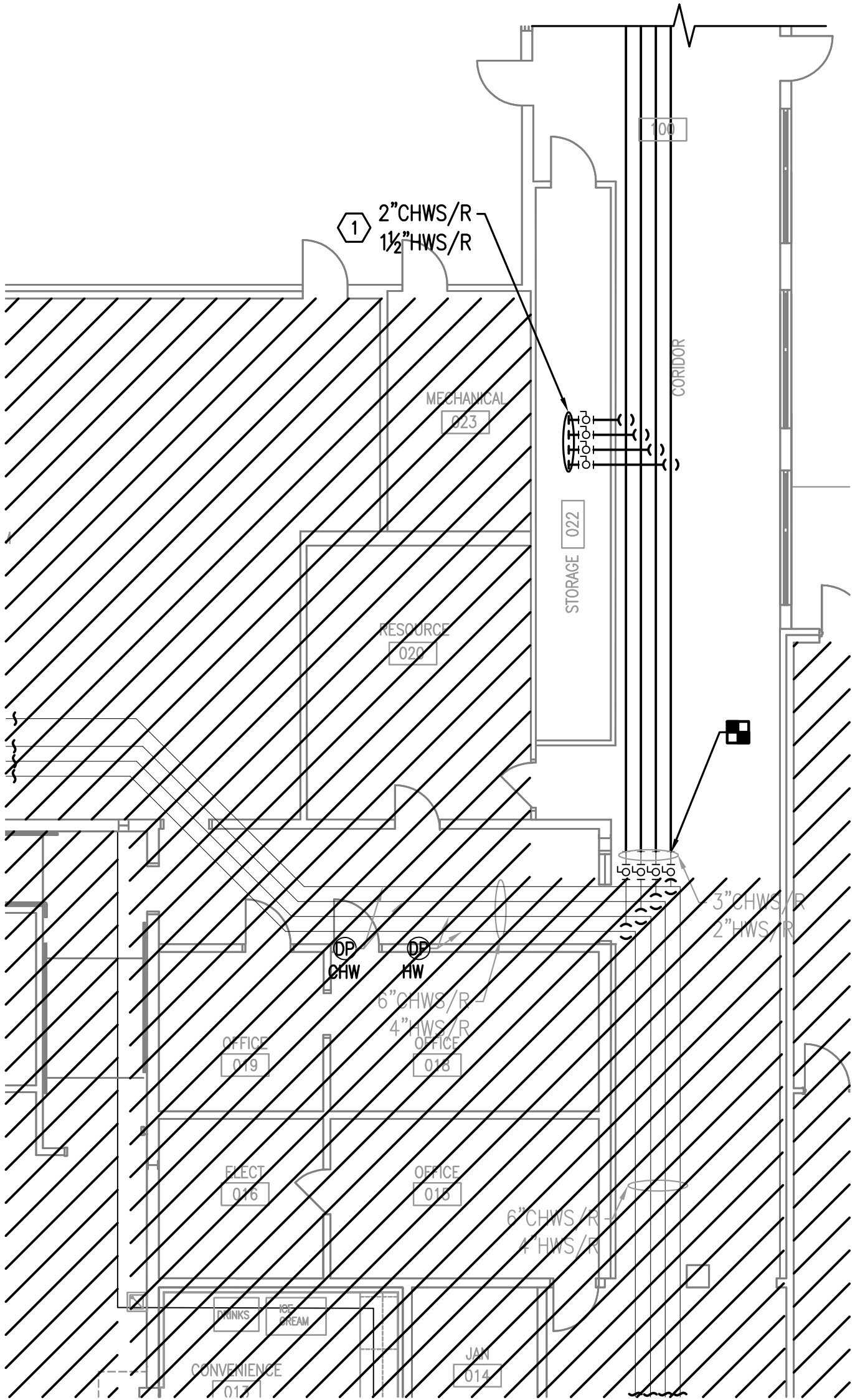
SHEET NOTES

- 1
- PROVIDE ISOLATION VALVE AND BLIND FLANGE ABOVE CEILING FOR FUTURE CONNECTIONS. TYP.
- 2
- ROUTE CONDENSATE PIPING ABOVE CEILING AND DOWN ALONG EXTERIOR WALL TO DRYWELL. INSULATE PER SPECIFICATIONS.
- 3
- ROUTE CONDENSATE PIPING TO FLOOR DRAIN IN MECHANICAL ROOM. SECURE TO STRUCTURAL ELEMENTS. INSULATE PIPING PER SPECIFICATIONS. ROUTE AWAY FROM FILTER RACK CLEARANCE.

GENERAL NOTES

1.
- HATCHED SYMBOL INDICATE NO NEW WORK TO BE PERFORMED IN THIS AREA.

SEE DRAWING 2 THIS SHEET FOR CONTINUATION



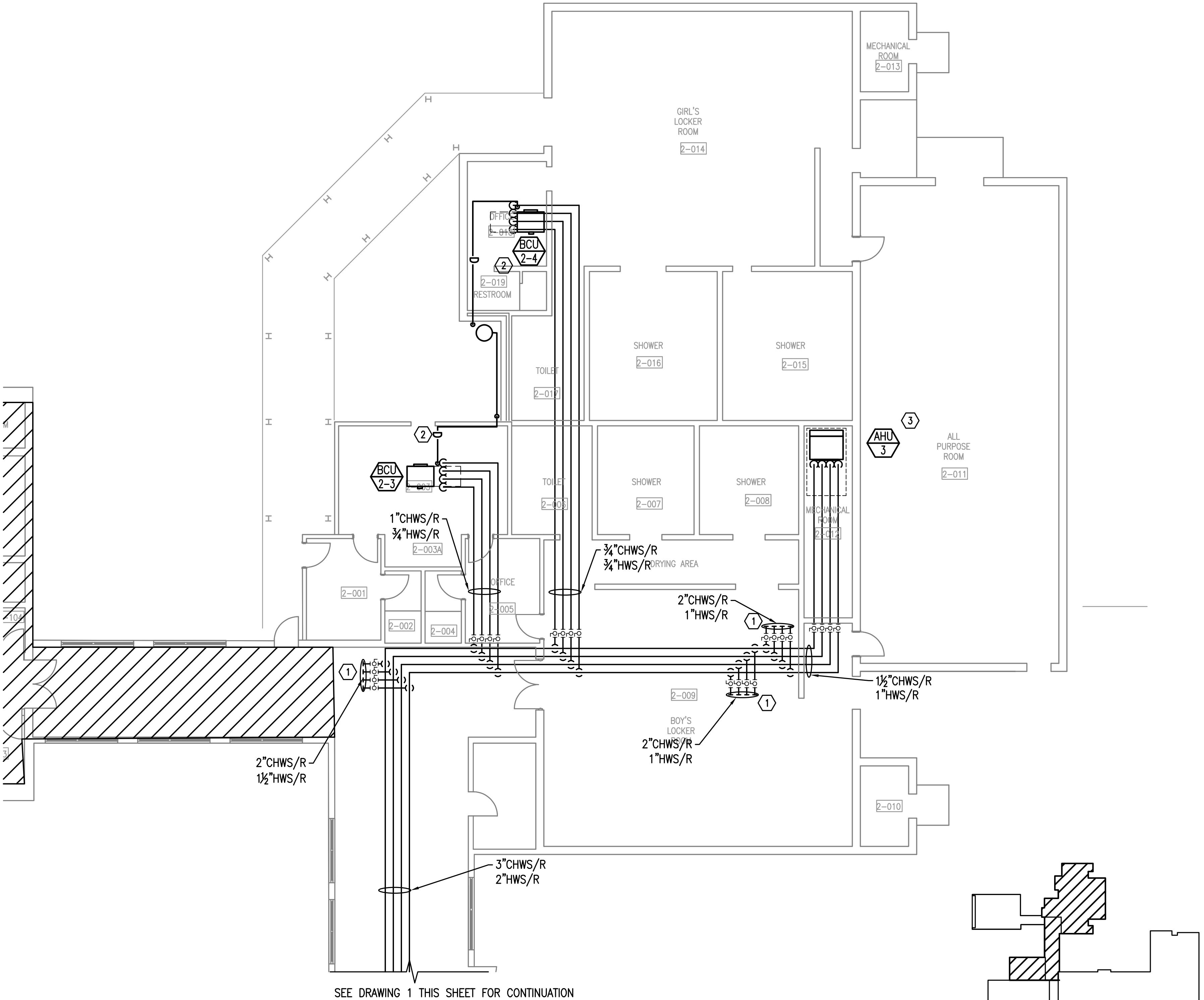
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PARTIAL MECHANICAL PIPING PLAN

8' 0' 8' 16'

SCALE: 1/8"=1'-0"

SEE DRAWING 1 THIS SHEET FOR CONTINUATION

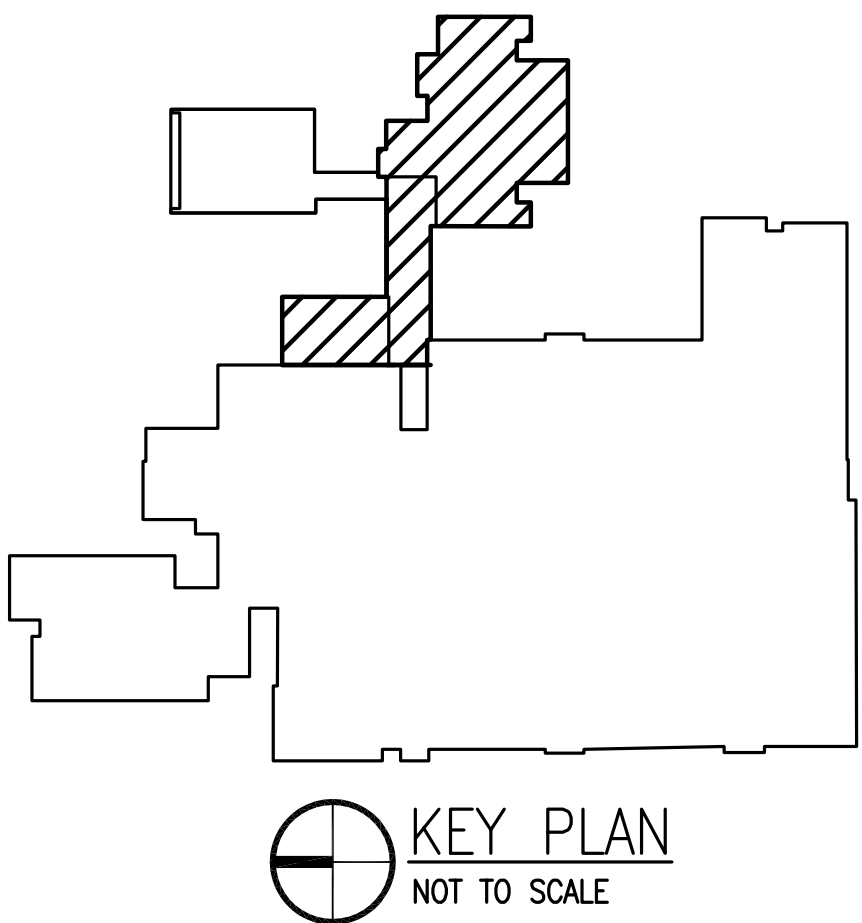


2

PARTIAL MECHANICAL PIPING PLAN

8' 0' 8' 16'

SCALE: 1/8"=1'-0"



REVISION NUMBER	REVISION DESCRIPTION

KING MIDDLE SCHOOL  
HVAC RENOVATION PH. B  
SANTA ROSA COUNTY SCHOOL DISTRICT

DESIGNED BY:  
CAP  
DRAWN BY:  
CAP  
CHECKED BY:  
WJJ  
DATE:  
SEPTEMBER 25, 2018

SHEET TITLE:  
PARTIAL  
MECHANICAL  
PIPING PLAN

SHEET:  
M405