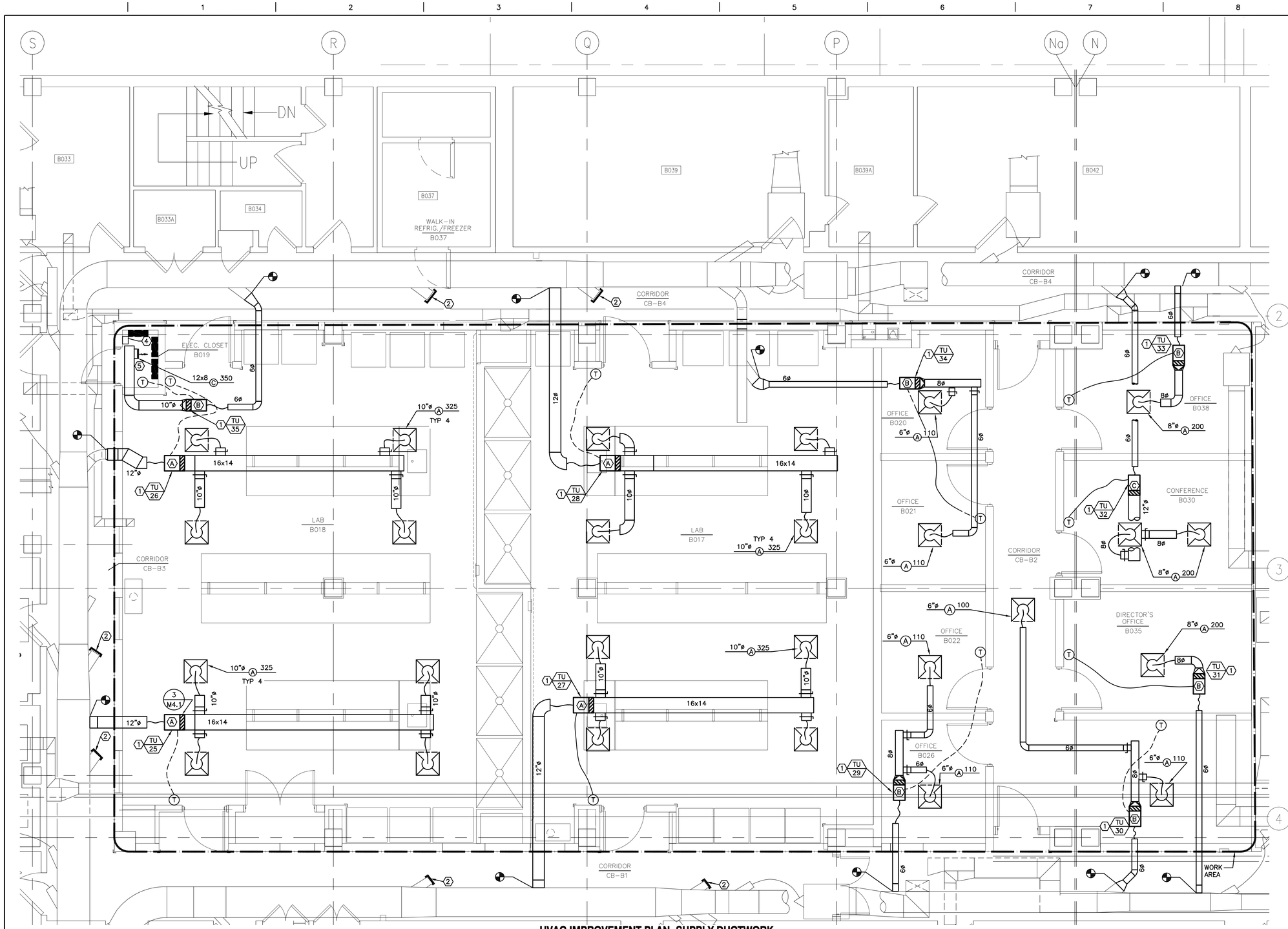


HVAC IMPROVEMENT PLAN- SUPPLY DUCTWORK

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

BIDDING DOCUMENTS

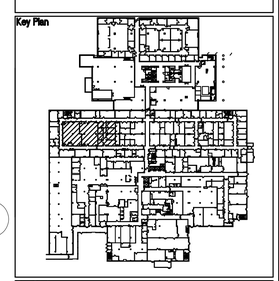
GENERAL NOTES:

1. NEW DUCTWORK LAYOUT IS SHOWN SCHEMATIC. PROVIDE OFFSETS AS NECESSARY TO AVOID CONFLICT WITH NEW EXHAUST DUCTWORK AND PIPING. TERMINAL UNITS SHALL BE FULLY ACCESSIBLE.
2. REPAIR EXISTING DAMAGED DUCTWORK AND INSULATION AS REQUIRED. INCLUDE AS A SEPARATE ITEM IN BID.
3. HALLWAY CEILING SURFACES ARE EXISTING TO REMAIN. TIE IN TO MAIN DUCTWORK SHALL BE PERFORMED IN A WAY THAT WOULD MINIMIZE DAMAGE TO EXISTING CEILING. REFER TO ARCHITECTURAL DRAWINGS.

KEY NOTES:

1. PROVIDE CONSTANT VOLUME TERMINAL REHEAT UNIT. SUPPORT FROM STRUCTURE ABOVE. PROVIDE DUCTWORK AND CEILING MOUNTED DIFFUSERS. MOUNT THERMOSTAT AT 48"AFF. TERMINAL UNIT SHALL BE FULLY ACCESSIBLE.
2. CAP UNUSED TAP WITH 18 GAUGE SHEET METAL. SEAL AIR TIGHT, INSULATE CAP TO MATCH EXISTING.
3. PROVIDE HORIZONTAL FIRE DAMPER. INSTALL PER MANUFACTURER RECOMMENDATION TO MAINTAIN UL RATING. PROVIDE ACCESS DOOR IN DUCT. DAMPER SHALL BE ACCESSIBLE.
4. PROVIDE NEW SIEMENS NETWORK CONTROLLER. INSTALL WITH CENTER OF PANEL AT 48" AFF. PROVIDE ALL REQUIRED CONNECTIONS. SEE PROPOSED ROUTING OF CONTROL CONNECTION ON SHEET M4.1.
5. MOUNT BOTTOM OF DUCT AT 7'-6" ABOVE FINISHED FLOOR.

Key Plan



Bar Scale

N

0 2' 4' 8'

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

Revisions	Date

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Drawing Title	HVAC IMPROVEMENT PLAN- SUPPLY DUCTWORK
Approved Project Director	
Project Title	RENOVATE RESEARCH - SECTION B LAB VA MEMORIAL HOSPITAL
Location	COLUMBIA, MO
Date	MARCH 04, 2009
Checked	GFE
Drawn	SRK
Project Number	589A4-07-109
Building Number	
Drawing Number	M1.0
Dwg. of	

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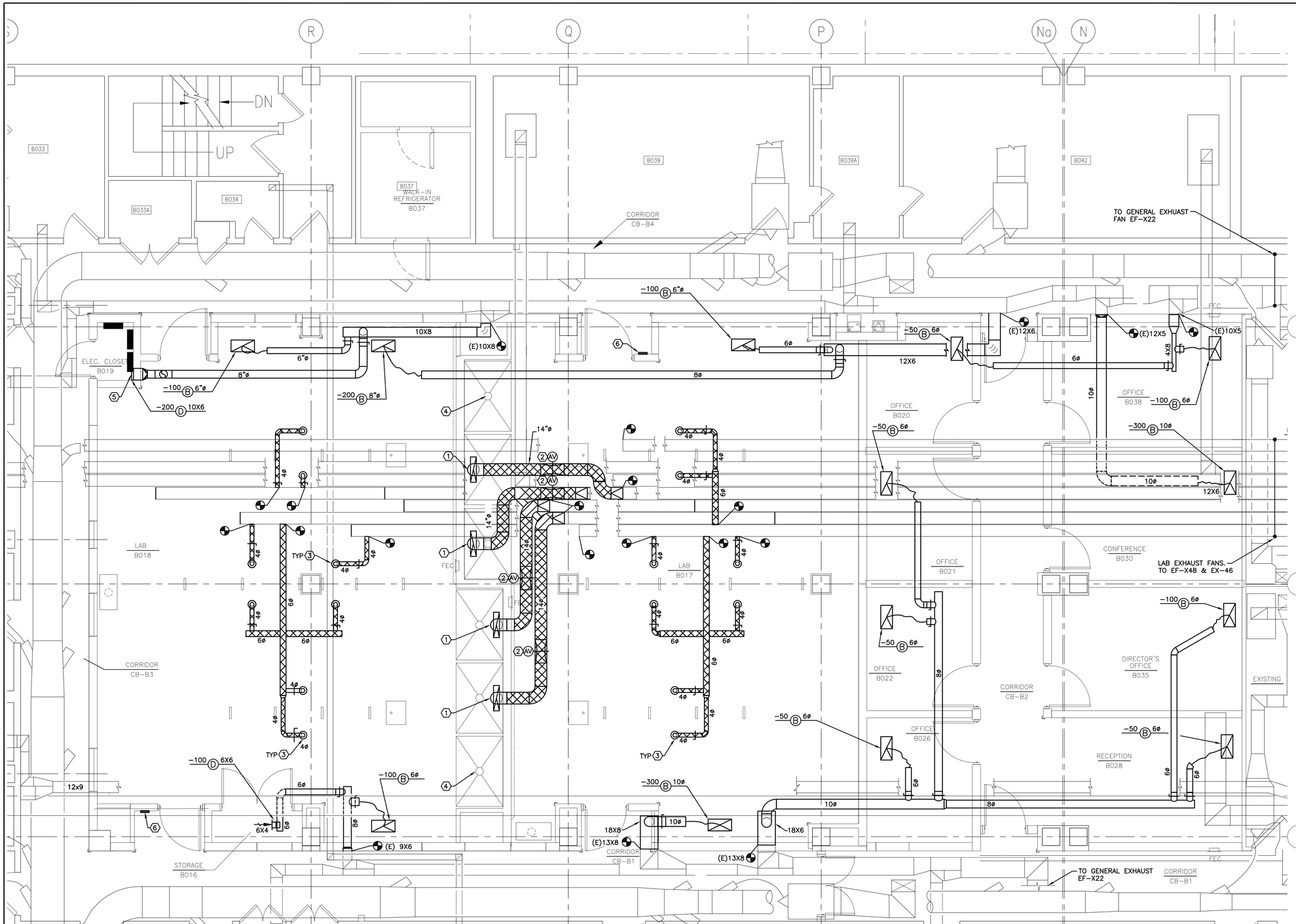


HVAC IMPROVEMENT PLAN- EXHAUST DUCTWORK

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

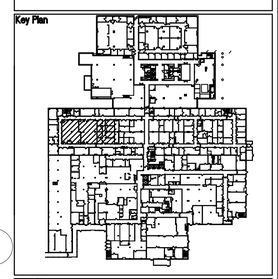
GENERAL NOTES:

1. EXHAUST DUCTWORK SERVING LABORATORY FUME HOOD(S) SHALL BE STAINLESS STEEL DUCTWORK. PROVIDE OFFSETS AS REQUIRED TO AVOID CONFLICT WITH NEW AND EXISTING DEVICES. AIR VALUES AND BALANCING DAMPERS SHALL BE FULLY ACCESSIBLE.

KEY NOTES:

1. PROVIDE EXHAUST DUCTWORK MAKE FINAL CONNECTION TO NEW EXHAUST FUME HOOD.
2. PROVIDE AIR VALVE. INSTALL PER MANUFACTURERS RECOMMENDATIONS. AIR VALVE SHALL BE FULLY ACCESSIBLE. BALANCE EACH TO A MAXIMUM AIRFLOW OF 1,000 CFM. COORDINATE VERTICAL OR HORIZONTAL INSTALLATION PRIOR TO ORDERING UNIT.
3. PROVIDE STAINLESS STEEL DUCTWORK CONNECT TO SNORKEL DUCT PROVIDED BY OTHERS. BALANCE EACH TO MAXIMUM AIRFLOW OF 75 CFM.
4. BIO HOOD FURNISHED AND INSTALLED BY EQUIPMENT CONTRACTOR. HOOD RESOURCES NO EXHAUST.
5. INSTALL TOP OF GRILLE AT 6" BELOW STRUCTURE.
6. INSTALL DIFFERENTIAL PRESSURE MONITOR WITH REMOTE PRESSURE TRANSMITTER (SIEMENS PART 547-006 AND 547-003). INSTALL BOTTOM OF MONITOR AT 60" AFF AND TOP OF TRANSMITTER AT 6" BELOW CEILING. MONITOR AND TRANSMITTER SHALL BE RECESSED IN WALL. COORDINATE ROUGH-IN WITH ELECTRICAL CONTRACTOR. PROVIDE CONTROL WIRING AND TIE IN TO BUILDING MANAGEMENT SYSTEM. SEE SHEET M4.1.

Key Plan



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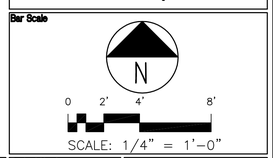

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Drawing Title	HVAC IMPROVEMENT PLAN EXHAUST DUCTWORK
Project Title	RENOVATE RESEARCH - SECTION B LAB VA MEMORIAL HOSPITAL
Project Number	589A4-07-109
Building Number	
Approved Project Director	
Location	COLUMBIA, MO
Date	MARCH 04, 2009
Checked	GFE
Drawn	SRK
Drawing Number	M1.1
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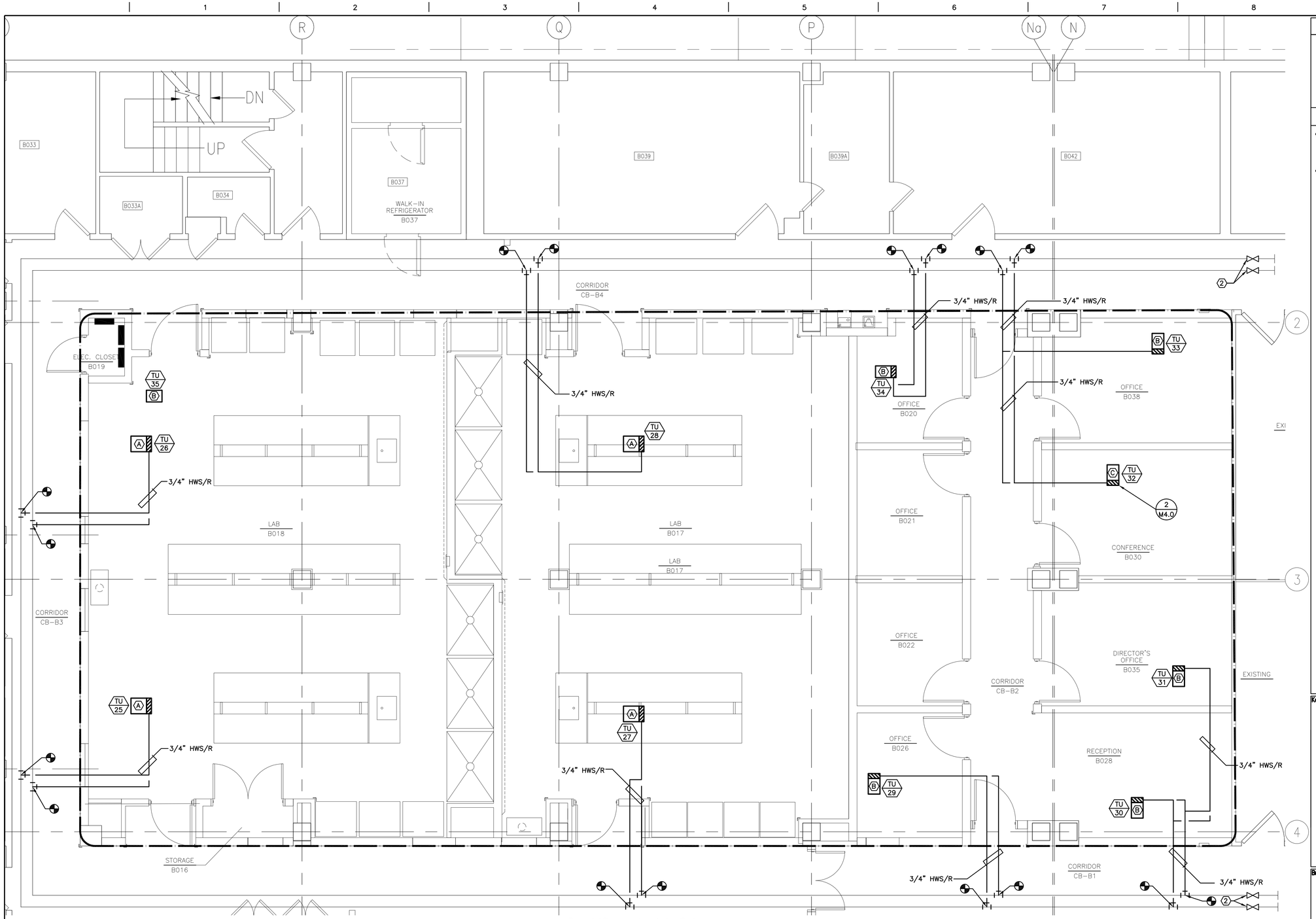

HVAC IMPROVEMENT PIPING PLAN

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

GENERAL NOTES:

1. PIPING LAYOUT IS SCHEMATIC. PROVIDE OFFSETS AS REQUIRED. TO AVOID CONFLICT AND TO TIE IN TO NEW TERMINAL UNIT.
2. CONNECTIONS ON TERMINAL UNIT MAY VARY. COORDINATED PIPING TIE INS.

KEY NOTES:

1. PROVIDE HEATING HOT WATER PIPING REFER TO DETAILS MAKE ALL FINAL CONNECTIONS TO TERMINAL UNIT. PIPING SPECIALTIES SHALL BE FULLY ACCESSIBLE.
2. SHUT-OFF VALVES INSTALLED IN DEMOLITION PHASE. REFER TO M0.2.

Key Plan

Bar Scale

N

0 2' 4' 16'

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

BIDDING DOCUMENTS

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Drawing Title	HVAC IMPROVEMENT PIPING PLAN
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Project Number	589A4-07-109
Building Number	
Location	COLUMBIA, MO
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Drawing Number	M1.2
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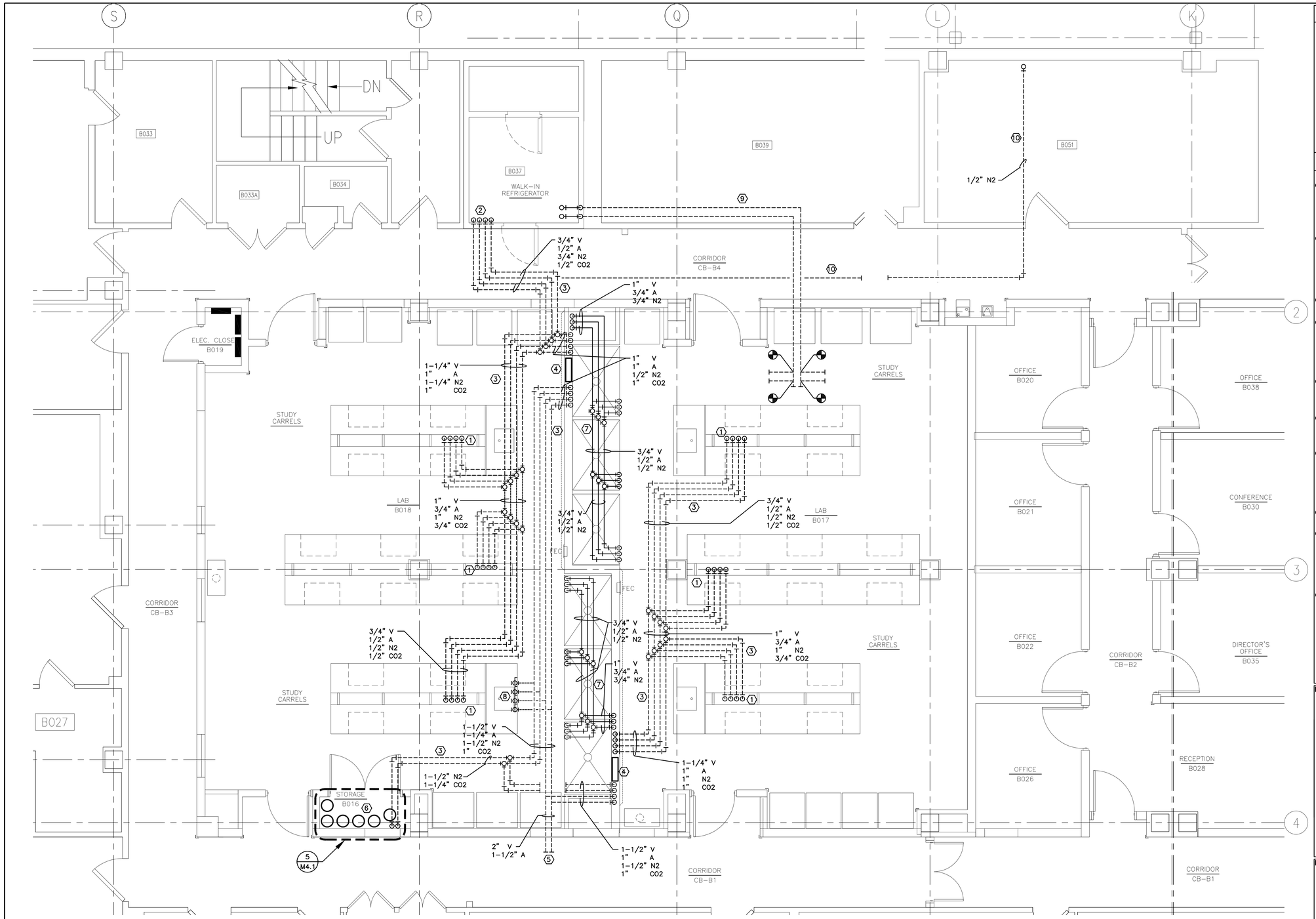

LABORATORY GAS SYSTEMS PIPING PLAN

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

GENERAL NOTES:

1. PIPING ROUTING SHOWN IN SCHEMATIC. CONTRACTOR TO COORDINATE EXACT ROUTING WITH EQUIPMENT CUTSHEETS AND TO AVOID CONFLICT WITH OTHER TRADES.
2. BRANCH TAKE OFF OF MAINS SHALL BE AT TOP OF PIPE. PROVIDE SHUT OFF VALVE AT EACH BRANCH TAKE OFF AND PRIOR TO PIPE GOING THROUGH SLAB. ALL VALVES SHALL BE ACCESSIBLE.
3. COORDINATE VACUUM AND COMPRESSED AIR TAP INTO MAIN. COORDINATE ALL SHUTDOWNS WITH OWNER. REFER TO SPECIFICATIONS.

KEY NOTES:

1. 3/4" VACUUM, 1/2" AIR, 1/2" NITROGEN, AND 1/2" CARBON DIOXIDE PIPING. ROUTE PIPING UP THROUGH CASEWORK UTILITY CHASE. FIELD ROUTE PIPING INSIDE CASE AND MAKE FINAL CONNECTIONS TO ALL CASEWORK TURRET UTILITY COCKS.
2. 3/4" VACUUM, 1/2" AIR, 1/2" NITROGEN, AND 1/2" CARBON DIOXIDE PIPING. ROUTE PIPING UP THROUGH NEW WALK-IN COOLER UTILITY CHASE. FIELD ROUTE PIPING INSIDE ROOM AND MAKE FINAL CONNECTIONS TO ALL TURRET UTILITY COCKS.
3. FIELD ROUTE PIPING IN PIPING BASEMENT BELOW. SUPPORT FROM STRUCTURE ABOVE.
4. WALL MOUNTED VALVE ZONE CABINET. ALL LABORATORY GAS PIPING SHALL BE ROUTED FROM FLOOR BELOW UP THROUGH WALL CAVITY INTO CABINET. BOTTOM OF CABINET SHALL BE AT 48" AFF. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUTING OF PIPES.
5. CONNECT GAS PIPING TO EXISTING VACUUM AND COMPRESSED AIR PIPING MAIN HEADERS LOCATED IN PIPE BASEMENT. REFER TO DETAILS.
6. PROVIDE CARBON DIOXIDE AND NITROGEN CYLINDERS MANIFOLDS. CYLINDERS BY OWNER. REFER TO DETAIL. ROUTE PIPING DOWN BELOW IN PIPE BASEMENT.
7. FIELD ROUTE PIPING FROM ZONE CABINET UP THROUGH WALL. ROUTE PIPING ABOVE CEILING AND DROP DOWN INTO LAB HOOD CHASE. MAKE ALL FINAL CONNECTIONS. MAINTAIN ACCESS TO HOOD COMPONENTS ABOVE CEILING INCLUDING EXHAUST DUCTWORK.
8. PROVIDE TAP FOR FUTURE USE. CAP WITH BALL VALVE.
9. PROVIDE COOLING WATER PIPING TO REMOTE WATER COOLED CONDENSER SERVING NEW WALK-IN COOLER. WALK-IN COOLER AND REMOTE COMPRESSOR/ CONDENSER BY EQUIPMENT VENDOR INTERCONNECTING PIPING BY THIS CONTRACTOR.
10. 1/2" N2 3116 STAINLESS STEEL PIPING. FIELD ROUTE NEW PIPE IN PIPE BASEMENT OR ABOVE CEILING TO NEW DEIONIZED WATER GENERATOR. SEE DETAIL ON SHEET M4.4. SECURE PIPING TO STRUCTURE ABOVE.

Key Plan

Bar Scale

N

0 2' 4' 8'

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

BIDDING DOCUMENTS

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Drawing Title	LABORATORY GAS SYSTEMS PIPING PLAN
Approved Project Director	
Project Title	RENOVATE RESEARCH - SECTION B LAB VA MEMORIAL HOSPITAL
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Project Number	589A4-07-109
Building Number	
Drawing Number	M1.3
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Office of Facilities Management

Department of Veterans Affairs

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EXISTING AIR HANDLING UNIT SCHEDULE

UNIT IDENTIFICATION												STEAM COIL						SUPPLY FAN													
PLAN MARK	LOCATION	COOLING CAPACITY		ENTERING AIR		LEAVING AIR		WATER				PRESSURE	FLOWRATE	HEATING	EAT	LAT	MAX. APD	SUPPLY	STATIC (in. w.g.)		FAN		MOTOR DATA		PREFILTER		FILTER		TOTAL	MAX SOUND	NOTES:
		TOTAL (MBH)	SENSIBLE (MBH)	DB (°F)	WB (°F)	DB (°F)	WB (°F)	EWT (°F)	LWT (°F)	GPM	MAX WPD (ft w.g.)	(psig)	(lb/hr)	CAPACITY (MBH)	DB (°F)	DB (°F)	(in. w.g.)	(CFM)	EXT	TOTAL	TYPE	BHP	HP	VOLTS/PH/HZ	DEPTH (in)	PERCENT	DEPTH (in)	PERCENT	APD (in. w.g.)	(dBA)	
AC-SX18	MECH ROOM	73,604	48,254	98	75	54	53	42	57	9.8	14.3	5	1482	1601	-2	55		26000	3		B.C. D.W.D.I.	44.76	50	460/3/60							1,2

NOTES:
1 EXISTING TO REMAIN
2 PROVIDE NEW VARIABLE FREQUENCY DRIVE FOR 50 HP SUPPLY FAN.
3 MECHANICAL CONTRACTOR TO FURNISH VFD FOR ELECTRICAL CONTRACTOR TO INSTALL. ADJUST SPEED TO PROVIDE REQUIRED AIR FLOW.

GRILLE, REGISTER AND DIFFUSER SCHEDULE

PLAN MARK	TYPE & MOUNTING STYLE	DESCRIPTION
A	TITUS MODEL OMNI-AA, LAY-IN MOUNT SUPPLY	24X24 MODULE ALUMINUM, ROUND NECK SIZE SHOWN ON PLANS.
B	TITUS MODEL 50F, LAY-IN MOUNT RETURN	24X12, EGGCRATE, ALLUMINUM 1/2"X1/2"X1/2" CORE, BORDER TYPE 3 FOR LAY-IN CEILING, NECK SIZE SHOWN ON PLANS.
C	TITUS MODEL 300RS, SURFACE MOUNT SUPPLY	STEEL REGISTER, DOUBLE DEFLECTION, 3/4" BLADE SPACING, INDIVIDUALLY ADJUSTABLE BLADES, SIZE SHOWN ON PLANS.
D	TITUS MODEL 350ZFL, SURFACE MOUNT	ALUMINUM GRILLE, 3/4" BLADE SPACING, 0 DEG. FIXED DEFLECTION

NEW TERMINAL UNIT SELECTION SCHEDULE

PLAN MARK	DUCT SEAL CLASS	LOCATION SERVED	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	INLET SIZE (in.)	MFR CFM RANGE	AIRFLOW (CFM)	ESP (in. w.g.)	INLET STATIC (in. w.g.)	EAT DB (°F)	LAT DB (°F)	EWT (°F)	LWT (°F)	WATER FLOW (GPM)	COIL CAPACITY BTU/HR	ROWS	MAX SOUND (dBA)	NOTES
TU-25	A	LAB "A"	TITUS	DESV	12	325-2000	1300	0.5	2.5	55	85	180	159	4.0	42,120	1		ALL
TU-26	A	LAB "A"	TITUS	DESV	12	325-2000	1300	0.5	2.5	55	85	180	159	4.0	42,120	1		ALL
TU-27	A	LAB "B"	TITUS	DESV	12	325-2000	1300	0.5	2.5	55	85	180	159	4.0	42,120	1		ALL
TU-28	A	LAB "B"	TITUS	DESV	12	325-2000	1300	0.5	2.5	55	85	180	159	4.0	42,120	1		ALL
TU-29	B	OFFICES	TITUS	DESV	5	65-350	220	0.5	2.5	55	85	180	166	1.0	7,128	1		ALL
TU-30	B	RECEPTION	TITUS	DESV	5	65-350	210	0.5	2.5	55	85	180	166	1.0	6,804	1		ALL
TU-31	B	OFFICE	TITUS	DESV	5	65-350	200	0.5	2.5	55	85	180	167	1.0	6,480	1		ALL
TU-32	C	CONFERENCE	TITUS	DESV	6	80-500	400	0.5	2.5	55	85	180	154	1.0	12,960	1		ALL
TU-33	B	OFFICE	TITUS	DESV	5	65-350	200	0.5	2.5	55	85	180	167	1.0	6,480	1		ALL
TU-34	B	OFFICES	TITUS	DESV	5	65-350	220	0.5	2.5	55	85	180	166	1.0	7,128	1		ALL
TU-35	B	ELECTRICAL RM	TITUS	DESV	5	65-350	300	0.5	2.5	55	55	--	--	--	--	--	--	ALL
							6950.0							22.0				

NOTES:
1 PROVIDE DUCT TRANSITION AT UNIT WHERE UNIT INLET SIZE AND DUCT RUNOUT SIZE ARE DIFFERENT.
2 THE UNIT MAXIMUM SP IS THE PRESSURE DIFFERENCE BETWEEN THE UNIT INLET AND DISCHARGE INCLUDING REHEAT COIL AND SOUND ATTENUATOR. IT IS ALSO THE MINIMUM PRESSURE REQUIRED AT THE UNIT INLET TO OBTAIN THE RATED CFM.

DUCT LEAKAGE CLASSIFICATION AND ALLOWABLE LEAKAGE TABLE

DUCT PRESSURE CLASS, W.G. IN (MM)	SEAL CLASS	APPLICABLE SEALING	SMACNA LEAKAGE CLASS RECTANGULAR DUCT	SMACNA LEAKAGE CLASS ROUND DUCT
1/2", 1", 2" [13, 25, 51]	C	TRAVERSE JOINTS ONLY	24	12
3" [76]	B	TRAVERSE JOINTS AND SEAMS	12	6
4", 6", 10" [102, 152, 254]	A	JOINTS, SEAMS AND ALL WALL PENETRATIONS	6	3

AIR VALVE SCHEDULE

PLAN MARK	SERIVICE	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	TYPE	DIA. (in.)	CFM	NOTES
AV	FUME HOODS	PHEONIX CONTROLS	CVV BF 12 M-ANCHO	CV	14	1,000	1

NOTES:
1 FIELD VERIFY ORIENTATION PRIOR TO OPERATING VALVES

EXISTING TERMINAL UNIT SCHEDULE

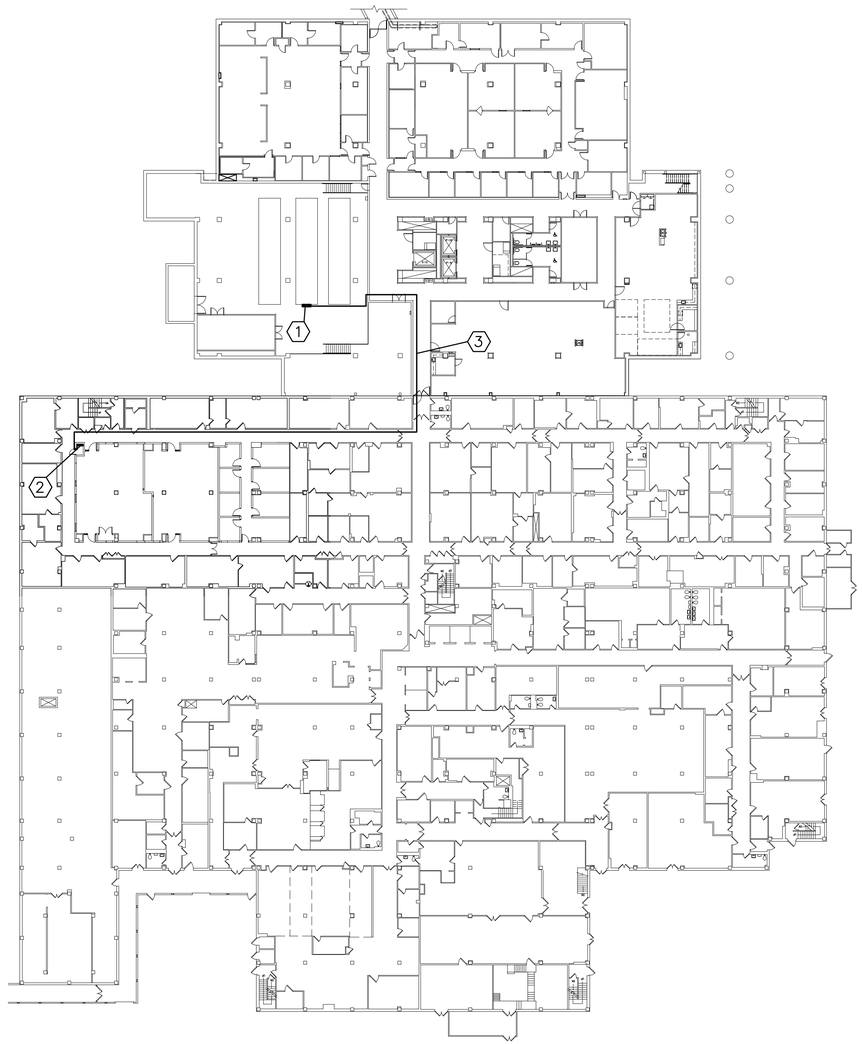
PLAN MARK	SIZE	AIRFLOW (CFM)	WATER FLOW (GPM)	NOTES
TU-X1	G	1,085	3.5	1
TU-X2	D	500	1.7	1
TU-X3	H	1,900	3.5	1
TU-X4	B	270	1.0	1
TU-X5	E	585	1.7	1
TU-X6	B	190	1.0	1
TU-X7	E	655	2.0	1
TU-X8	F	850	2.7	1
TU-X9	E	735	2.7	1
TU-X10	E	585	1.7	1
TU-X11	D	450	1.3	1
TU-X12	H	1,885	3.5	1
TU-X13	F	830	2.7	1
TU-X14	G	1,170	3.9	1
TU-X15	C	375	1.3	1
TU-X16	E	675	2.1	1
TU-X17	C	350	1.3	1
TU-X18	H	1,450	3.2	1
TU-X19	G	1,295	3.1	1
TU-X20	E	585	1.7	1
TU-X21	F	850	2.7	1
TU-X22	G	1,290	4.1	1
TU-X23	D	575	2.1	1
TU-X24	F	865	2.8	1
TU-D25	E	685	2.4	2
TU-D26	D	500	1.7	2
TU-D27	E	585	1.7	2
TU-D28	E	675	2.1	2
TU-D29	E	685	2.4	2
TU-D30	E	685	2.4	2
TU-D31	E	590	1.7	2
TU-D32	C	375	1.3	2
TU-D33	E	645	2.0	2
TU-D34	E	600	1.7	2
TU-D35	F	825	2.6	2
TOTAL		26,850	79	
REMOVE		6,850	22	

NOTES:
1) EXISTING TERMINAL UNIT TO REMAIN
2) EXISTING TERMINAL UNIT TO BE REMOVED

WALK-IN REFRIGERATOR / FREEZER SCHEDULE (REFERENCE ONLY)

MANUFACTURER	TYPE	CONDENSING UNIT	MEDIUM-TEMP REFRIGERANT	LOW-TEMP REFRIGERANT	REF. SYSTEM	NOTES:
NORLAKE	COLD ROOM/FREEZER COMBINATION	WATER-COOLED	R134a	R404a	REMOTE	1

NOTES:
1 EQUIPMENT SHALL BE PROVIDED AND INSTALLED BY EQUIPMENT CONTRACTOR. SCHEDULE IS SHOWN FOR REFERNCE ONLY. COORDINATE WITH ARCHITECT.

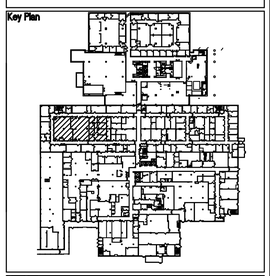


BASEMENT PLAN - BMS MAIN WIRING.
SCALE: 1/32" = 1'-0"

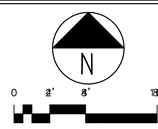
KEY NOTES:

1. MAIN CONTROL PANEL.
2. NEW CONTROLLER
3. SUGGESTED ROUTING. COORDINATE WITH VA EXACT ROUTING.

Key Plan



Bar Scale



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

BIDDING DOCUMENTS

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Drawing Title	MECHANICAL SCHEDULES & BMS MAIN CONTROL WIRING
Approved Project Director	
Project Title	RENOVATE RESEARCH - SECTION B LAB VA MEMORIAL HOSPITAL
Location	COLUMBIA, MO
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