



HCA - LEE'S SUMMIT MEDICAL CENTER LAB & PHARMACY RENOVATION

2100 SE BLUE PKWY
LEE'S SUMMIT, MO 64063

DGL PROJECT NO. 6406.24.0001 DATE: 
HCA PROJECT NO. 0972400009  **02/09/2026**

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SUBMITTALS:	DATE:
CITY & STATE - 1 ST REVIEW	05/23/2025
DESIGN COORDINATION	07/17/2025 
ASI-002 - DESIGN COORDINATION	02/09/2026

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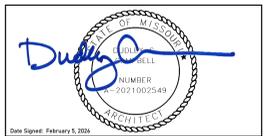


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LAB & PHARMACY RENOVATION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY
LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHS

FACILITY NUMBER:
097240009

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE
1	ASH-001 - DESIGN COORDINATION	2025/07/17
2	ASH-002 - DESIGN COORDINATION	2026/02/09

DATE: 05/23/2025
SCALE: PL, JV
DRAWN: PL, JV
REVIEWED:
JOB NUMBER: 6406.24

SHEET INDEX

GI001

SHEET INDEX WORKING			
	X = ISSUED SHEET		
	R = REVISED SHEET		
	F = FOR REFERENCE ONLY		
	D = DELETED SHEET		
SHEET NUMBER	SHEET NAME		

1ST CITY SUBMITTAL - 06/27/2025
ASH-001 - DESIGN COORDINATION - 07/17/2025
ASH-002 - DESIGN COORDINATION - 02/09/2026

GENERAL INFORMATION			
GI000	COVER SHEET	X	R R
GI001	SHEET INDEX	X	R R
GI101	PROJECT INFORMATION, AREA MAPS, SYMBOLS	X	

ARCHITECTURAL SITE			
AS001	ARCHITECTURAL SITE PLAN	X	

ARCHITECTURAL LIFESAFETY			
AC101	LIFE SAFETY FLOOR PLAN - LEVEL 1 - SECTOR B	X	
ACS01	PARTITION TYPES & DETAILS	X	
ACS21	TYPICAL MOUNTING HEIGHTS	X	R

ARCHITECTURAL DEMOLITION			
AD101	DEMOLITION PLAN - LEVEL 1 - SECTOR B - LAB & PHARMACY	X	
AD171	DEMOLITION RCP - LEVEL 1 - SECTOR B - LAB & PHARMACY	X	

ARCHITECTURAL			
AE121B	DIMENSION FLOOR PLAN - LEVEL 1 - SECTOR B - LAB & PHARMACY	X	
AE131B	ANNOTATION FLOOR PLAN - LEVEL 1 - SECTOR B - LAB & PHARMACY	X	R
AE131B	REFLECTED CEILING PLAN - LEVEL 1 - SECTOR B - LAB & PHARMACY	X	R
AE402	INTERIOR ELEVATIONS AND VIEWS - LEVEL 1 - PHARMACY	X	
AE403	INTERIOR ELEVATIONS AND VIEWS - LEVEL 1 - PHARMACY	X	
AE404	INTERIOR ELEVATIONS AND VIEWS - LEVEL 1 - LAB	X	
AE405	INTERIOR ELEVATIONS AND VIEWS - LEVEL 1 - LAB	X	
AE601	DOOR SCHEDULES & DETAILS	X	
AE651	WINDOW SCHEDULES & DETAILS	X	
AE701	INTERIOR DETAILS	X	
AE720	CEILING DETAILS	X	

INTERIORS			
AF001	GENERAL FINISH SPECIFICATIONS AND NOTES	X	
AF101	FINISH FLOOR PLAN - LEVEL 1	X	
AF102	WALL PROTECTION PLAN - LEVEL 1	X	
AF103	FLOOR PATTERN PLAN - LEVEL 1	X	
AF104	FURNITURE PLAN - LEVEL 1	X	
AF105	SIGNAGE PLAN - LEVEL 1	X	R
AF106	SIGNAGE KEY	X	
AF107	SIGNAGE KEY	X	

PLUMBING			
PD0-00	GENERAL INFORMATION - PLUMBING	X	
PD02-00	UNDERFLOOR DEMOLITION PLAN - PLUMBING	X	
PD02-01	DEMOLITION PLAN - LEVEL 1 - SECTOR B - LAB, PHARMACY & EVS - PLUMBING	X	
PD2-00	UNDERFLOOR PLAN - PLUMBING	X	
PD2-01	FLOOR PLAN - LEVEL 1 - SECTOR B - LAB, PHARMACY & EVS - PLUMBING	X	R
P07-01	DETAILS - PLUMBING	X	
P08-01	SCHEDULED - PLUMBING	X	

MECHANICAL			
M00-00	GENERAL INFORMATION - MECHANICAL	X	R
M01-01	CONTROL - MECHANICAL	X	R
M01-02	CONTROLS - MECHANICAL	X	
MD02-01	DEMOLITION PLAN - LEVEL 1 - SECTOR B - LAB, PHARMACY - HVAC	X	R
MD03-01	DEMOLITION PLAN - LEVEL 1 - SECTOR B - LAB, PHARMACY - HVAC PIPING	X	
M02-01	FLOOR PLAN - LEVEL 1 - SECTOR B - LAB & PHARMACY - HVAC	X	
M03-01	FLOOR PLAN - LEVEL 1 - SECTOR B - LAB & PHARMACY & EVS - HVAC PIPING	X	
M05-01	ENLARGED PLAN - MECHANICAL		X
M06-01	RISER DIAGRAM - MECHANICAL	X	R
M07-01	DETAILS - MECHANICAL	X	
M07-02	DETAILS - MECHANICAL	X	R
M07-03	DETAILS - MECHANICAL	X	R
M08-01	SCHEDULES - MECHANICAL	X	R
MEPD02-03	ATTACHED MOB ROOF DEMOLITION PLAN	X	
MEP02-03	ATTACHED MOB ROOF PLAN - MEP	X	

ELECTRICAL			
E00-00	GENERAL INFORMATION - ELECTRICAL	X	R
ED02-01	DEMOLITION PLAN - LEVEL 1 - SECTOR B - LAB, PHARMACY & EVS - ELECTRICAL	X	
E02-01	FLOOR PLAN - LEVEL 1 - SECTOR B - LAB, PHARMACY & EVS - POWER	X	
E03-01	FLOOR PLAN - LEVEL 1 - SECTOR B - LAB, PHARMACY & EVS - LIGHTING	X	R
E04-01	FLOOR PLAN - LEVEL 1 - SECTOR B - LAB, PHARMACY & EVS - SPECIAL SYSTEMS	X	
E05-01	ENLARGED PLAN - ELECTRICAL	X	R
E06-01	ONE LINE DIAGRAM - ELECTRICAL	X	
E07-01	DETAILS - ELECTRICAL	X	
E08-01	SCHEDULES - ELECTRICAL	X	R

TECHNOLOGIES			
T00-00	GENERAL INFORMATION - TECHNOLOGY	X	
TD02-01	DEMOLITION PLAN - LEVEL 1 - SECTOR B - LAB, PHARMACY & EVS - COMMUNICATIONS	X	
T02-01	FLOOR PLAN - LEVEL 1 - SECTOR B - LAB, PHARMACY & EVS - COMMUNICATIONS	X	
T03-01	FLOOR PLAN - LEVEL 1 - SECTOR B - LAB, PHARMACY & EVS - LOW VOLTAGE	X	
T04-01	FLOOR PLAN - LEVEL 1 - SECTOR B - LAB, PHARMACY & EVS - SECURITY	X	
T07-01	DETAILS - TECHNOLOGY	X	
T07-02	DETAILS - TECHNOLOGY	X	
T07-03	DETAILS - TECHNOLOGY	X	
T08-01	SCHEDULES - TECHNOLOGY	X	

VENDOR(MILLER KNOLL)LAB			
HM.P01.LAB	P01-LAB	F	
HM.P01.UTIL	P01-UTIL	F	
E01-LAB	E01-LAB	F	
E02-LAB	E02-LAB	F	

VENDOR(MILLER KNOLL)PHARMACY			
HM.P02-UTIL	P02-UTIL	F	
HM.P02-RX	P02-RX	F	
E03-RX	E03-RX	F	
HM.D09	ACUTE CARE AND LAB CO-STRUC	F	
HM.D10	SUPPORT PANELS	F	

VENDOR(STORAGE SYSTEMS)			
SS-1	STORAGE SYSTEMS LAYOUT	F	
SS-2	EQUIPMENT ELEVATIONS	F	

VENDOR(PNEUMATIC TUBE SYSTEM)			
PTS-000	COVER SHEET	F	
PTS-001	DETAILS	F	
PTS-002	DETAILS	F	

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GENERAL NOTES - ALL HVAC SHEETS

- A. ALL MECHANICAL, ELECTRICAL, AND PLUMBING WORK SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL BUILDING CODES. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS FOR MECHANICAL AND PLUMBING CONSTRUCTION.
- B. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, PAY ALL FEES, AND COMPLY WITH ALL NATIONAL, STATE, AND MUNICIPAL LAWS, CODES, AND ORDINANCES RELATING TO BUILDING AND PUBLIC SAFETY.
- C. CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT, AND LABOR REQUIRED FOR A COMPLETE WORKING AND COORDINATED SYSTEM.
- D. COORDINATE THE EXACT LOCATION OF MECHANICAL AND PLUMBING EQUIPMENT WITH THE LOCATIONS OF LIGHT FIXTURES, PIPING, CONDUIT, AND OTHER CONSTRUCTION, TO ALLOW FOR PROPER ACCESS TO SERVICE EQUIPMENT.
- E. COORDINATE THE LOCATION OF DUCTWORK AND PIPING WITH OTHER TRADES AND PROVIDE OFFSETS IN DUCTWORK AND PIPING AS REQUIRED.
- F. IT IS THE INTENT OF THESE DOCUMENTS TO ALLOW ALL CEILING CONSTRUCTION AND HEIGHTS TO BE AS SHOWN ON THE ARCHITECTURAL DRAWINGS. COORDINATE THE LOCATION OF DUCTWORK AND PIPING AND PROVIDE OFFSETS IN DUCTWORK AND PIPING AS REQUIRED TO MEET THIS INTENT.
- G. CONDUIT, PIPING, AND DUCTWORK SHALL BE INDEPENDENTLY SUPPORTED, AND EACH SUPPORT SHALL BE INDEPENDENT OF PARTITION AND CEILING SYSTEM SUPPORTS. WHERE INDEPENDENT SUPPORT IS NOT POSSIBLE AN ENGINEERED SUPPORT SYSTEM SHALL BE UTILIZED.
- H. INSTALL ALL FLOOR MOUNTED EQUIPMENT ON PADS AS SPECIFIED. PAD BY GENERAL CONTRACTOR. COORDINATE REQUIREMENTS WITH GENERAL CONTRACTOR.
- I. ALL WORK SHALL BE SCHEDULED AND PERFORMED IN STRICT COORDINATION WITH ARCHITECTURAL PHASING PLANS AND WITH HOSPITAL SCHEDULES, OCCUPANCIES, AND WORK.
- J. PROTECT EQUIPMENT AND WORK FROM DAMAGE DURING HANDLING AND INSTALLATION UNTIL COMPLETION OF CONSTRUCTION.
- K. REMOVE ALL EXCESS MATERIAL AND DEBRIS AND CLEAN ALL EQUIPMENT UPON COMPLETION OF WORK. TOUCH UP WITH PAINT WHERE REQUIRED.
- L. CONTRACTOR SHALL VISIT JOBSITE AND VERIFY SIZE AND LOCATION OF ALL EXISTING ITEMS AND CONDITIONS.
- M. ALL CONNECTION BETWEEN PIPES OF DISSIMILAR MATERIALS SHALL BE MADE WITH DIELECTRIC UNIONS.
- N. CONTRACTOR SHALL COORDINATE ALL WORK CLOSELY WITH EXISTING CONDITIONS AND WITH ALL OTHER TRADES.
- O. ALL EXISTING FACILITIES SHALL BE PROTECTED DURING THE CONSTRUCTION ACTIVITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE AND STORE ITEMS WHICH ARE SUBJECT TO DAMAGE.
- P. ARCHITECT SHALL HAVE FINAL APPROVAL OF ALL GRILLE, DIFFUSER, AND THERMOSTAT LOCATIONS.
- Q. COORDINATE ALL AIR DEVICE LOCATIONS AND MOUNTING FRAME STYLES WITH LIGHTING PLANS AND ARCHITECTURAL REFLECTED CEILING PLANS.
- R. COORDINATE ALL WALL MOUNTED DEVICE LOCATIONS WITH ARCHITECTURAL INTERIOR ELEVATIONS.
- S. DEMOLITION OF EACH PHASE SHALL OCCUR AS PART OF THE WORK FOR THAT PHASE. REMOVE ONLY THE WORK THAT SERVES THE AREA OF DEMOLITION.
- T. PROVISIONS SHALL BE MADE BY THE CONTRACTOR TO PREVENT DISRUPTING ADJACENT AREAS OF THE PHASE IN WHICH WORK IS BEING PERFORMED.
- U. PROVIDE ADDITIONAL VALVES, TAPS, TEMPORARY DUCTWORK, ETC. AS NECESSARY TO PROVIDE UNINTERRUPTED SERVICE TO AREAS OUTSIDE OF THE PHASE IN WHICH WORK IS BEING PERFORMED.
- V. ALL NECESSARY SHUTDOWNS OR OUT OF PHASE WORK SHALL BE COORDINATED WITH THE HOSPITAL REPRESENTATIVE.
- W. DUCT SIZES ARE NET FREE AREA.
- X. PROVIDE ROUND DUCTS TO ALL AIR DEVICES UNLESS NOTED OTHERWISE. DUCT SIZE SHALL MATCH AIR DEVICE NECK SIZE OR THE TABLE IN AIR DEVICE SCHEDULE, WHICHEVER IS LARGER. FLEXIBLE DUCTS SHALL BE SIZED SIMILARLY, DO NOT USE FLEXIBLE DUCTS ABOVE NON-LAYIN CEILINGS.
- Y. TERMINAL BOX INLET DUCTS: SIZE THE RUNOUT DUCT AND ITS TAP AT MAIN TRUCK PER VAV BOX SCHEDULE UNLESS NOTED OTHERWISE ON PLANS.
- Z. TERMINAL BOX OUTLET DUCTS: SIZE THE LOW PRESSURE OUTLET DUCT TO BE SIZE OF TERMINAL BOX DISCHARGE UNLESS NOTED OTHERWISE ON PLANS.
- AA. PROVIDE FRAMED 0.5" BY 0.5" BIRD SCREEN (GALVANIZED STEEL ASSEMBLY) AT ALL DUCTS TERMINATING WITHOUT AN AIR DEVICE, AND AT UNDUCTED AIR FLOW OPENINGS AT EQUIPMENT. PROVIDE 0.5" BY 0.5" BIRD SCREEN (316 STAINLESS STEEL) AT ALL INDOOR FACE OF LOUVERS AND UNDUCTED AIR FLOW OPENINGS TO EQUIPMENT HANDLING OUTSIDE AIR.
- AB. PROVIDE MANUAL VOLUME DAMPER IN EACH AIR DEVICE RUNOUT DUCT AS FAR FROM AIR DEVICE AS POSSIBLE.
- AC. INSTALL SPACE THERMOSTAT ADJACENT TO LATCH SIDE OF DOOR IN SPACE INDICATED.
- AD. INDICATED SPACE THERMOSTAT LOCATIONS ARE APPROXIMATE. AVOID HEAT PRODUCING EQUIPMENT.
- AE. FINAL SPACE THERMOSTAT/SENSOR LOCATIONS SHALL BE AS DIRECTED BY THE ARCHITECT.
- AF. INSTALL HUMIDISTATS IN SIMILAR FASHION.
- AG. INSTALL TURNING VANES IN ALL 90 DEGREE SQUARE ELLS IN SUPPLY, RETURN, AND EXHAUST DUCTS. (NONE ALLOWED IN COMBUSTION AIR DUCTS).
- AH. LOCATE ISOLATION VALVES FOR EQUIPMENT AS CLOSE TO THE MAIN AS POSSIBLE.
- AI. PROVIDE CONDENSATE DRAIN PIPING FROM ALL COOLING COILS TO DRAIN.
- AJ. MULTI-BLADE DAMPERS OF ANY TYPE INSTALLED WITHIN 36" OF AN ELL OR OTHER FITTING SHALL BE INSTALLED WITH THE DAMPER BLADE SHAFTS PARALLEL TO THE AIRSTREAM FLOW DIRECTION UPSTREAM OF THE FITTING.
- AK. COORDINATE LOCATION OF ALL DISCONNECTS, CONTROL PANELS AND ELECTRICAL CONNECTIONS FOR MECHANICAL AND PLUMBING EQUIPMENT TO MAINTAIN NEC REQUIRED CLEARANCES OF 42" DEEP AND 30" WIDE IN FRONT OF EQUIPMENT.
- AL. ALL FIRE AND COMBINATION FIRE/SMOKE DAMPERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTALLATION DETAILS AND BE U.L. TESTED AND LISTED.
- AM. FULLY INTEGRATE ALL NEW CONTROLS WITH ALL EXISTING / MODIFIED EQUIPMENT BACK TO NEW FMS AND ENGINEERS WORKSTATION IN RENOVATION PROJECT.
- AN. PROVIDE FILTER GAUGE ACROSS EACH FILTER BANK SERVING CENTRAL AIR SYSTEMS. THE GAUGE SHALL BE RED LINED OR A FILTER ALARM LIGHT INSTALLED TO SIGNAL WITH THE RECOMMENDED MAXIMUM STATIC PRESSURE DROP HAS BEEN REACHED. USE MAXIMUM STATIC PRESSURE AS RECOMMENDED BY FILTER MANUFACTURER.
- AO. PIPE CONNECTIONS LESS THAN 2-1/2" TO HEATING COILS, COOLING COILS, HUMIDIFIERS AND SIMILAR EQUIPMENT SHALL HAVE FLEXIBLE CONNECTORS OR THREE 90-DEGREE OFFSETS IN CLOSE PROXIMITY OF THE CONNECTION.
- AP. CONTRACTOR SHALL RE-INSPECT RECOMMENDED CONNECTION POINTS AFTER DEMOLITION PHASE TO ENSURE TIE-IN POINTS ARE ADEQUATE FOR RENOVATION SYSTEMS.
- AQ. CONTRACTOR SHALL TEST AND BALANCE ALL EXISTING SYSTEMS THAT ARE TO BE CONNECTED TO FOR THE RENOVATION PHASE PRIOR TO INSTALLING NEW WORK AND DOCUMENT VALUES. CONTRACTORS SHALL RE-TEST AND BALANCE EXISTING SYSTEMS AFTER CONNECTION TO ENSURE ALL DOWN STREAM SYSTEMS ARE PROVIDED THE SAME PERFORMANCE AFTER CONSTRUCTION.
- AR. ALL DISCONNECTS DOWN STREAM OF VFDs SHALL BE PROVIDED WITH AUXILIARY CONTACTS TO SHUT DOWN UPSTREAM VFD WHEN SWITCH IS OPEN.

GENERAL PIPING NOTES

- A. REFER TO THE ARCHITECTURAL PHASING PLAN FOR THE AREAS SHOWN ON THIS SET OF PLANS. WORK SHALL BE SCHEDULED AND PERFORMED IN SEQUENCE WITH THE PHASING PLAN.
- B. DEMOLITION OF EACH PHASE SHALL OCCUR AS PART OF THE WORK FOR THAT PHASE. REMOVE ONLY THE WORK THAT SERVES THE AREA OF DEMOLITION.
- C. PROVISIONS SHALL BE MADE BY THE CONTRACTOR TO PREVENT DISRUPTING ADJACENT AREAS OF THE PHASE IN WHICH WORK IS BEING PERFORMED.
- D. PROVIDE ADDITIONAL VALVES, TAPS, TEMPORARY DUCTWORK AND/OR PIPING AS NECESSARY TO PROVIDE UNINTERRUPTED SERVICE TO AREAS OUTSIDE OF THE PHASE IN WHICH WORK IS BEING PERFORMED.
- E. ALL WORK SHALL BE PERFORMED IN STRICT COORDINATION WITH HOSPITAL SCHEDULES, OCCUPANCIES, AND WORK. CONTRACTOR SHALL COORDINATE WITH HOSPITAL REPRESENTATIVE.
- F. ALL NECESSARY SHUTDOWNS OR OUT OF PHASE WORK SHALL BE SCHEDULED WITH THE HOSPITAL REPRESENTATIVE IN A TIMELY MANNER AS TO MINIMIZE THE DISRUPTION TO THE FACILITY.
- G. ARCHITECT SHALL HAVE FINAL APPROVAL OF ALL THERMOSTAT LOCATIONS.
- H. G.C. TO PROVIDE ACCESS DOORS IF REQUIRED FOR ACCESS TO VAVS AND ANY VALVES THAT ARE NOT ACCESSIBLE. VERIFY SIZE AND LOCATIONS WITH MECHANICAL CONTRACTOR.
- I. CONTRACTOR SHALL RE-INSPECT RECOMMENDED CONNECTION POINTS AFTER DEMOLITION PHASE TO ENSURE TIE-IN POINTS ARE ADEQUATE FOR RENOVATION SYSTEMS.
- J. CONTRACTOR SHALL TEST AND BALANCE ALL EXISTING SYSTEMS THAT ARE TO BE CONNECTED TO FOR THE RENOVATION PHASE PRIOR TO INSTALLING NEW WORK AND DOCUMENT VALUES. CONTRACTORS SHALL RE-TEST AND BALANCE EXISTING SYSTEMS AFTER CONNECTION TO ENSURE ALL DOWN STREAM SYSTEMS ARE PROVIDED THE SAME PERFORMANCE AFTER CONSTRUCTION.
- K. CONTRACTOR SHALL COORDINATE ALL SLAB PENETRATIONS WITH EXISTING WAFFLE SLAB RIDGES AND BEAMS.

GENERAL DEMOLITION NOTES

- A. ALL CAPPED DUCT TAPS AND CONNECTING DUCTS THAT ARE NOT BEING USED ARE TO BE REMOVED BACK TO THE MAIN DUCT AND PATCHED AS PER ITEM B BELOW.
- B. PATCH OPENINGS IN EXISTING DUCTWORK THAT IS TO REMAIN INCLUDING OPENINGS. WHERE TAPS OR DUCTWORK ARE TO BE REMOVED, THE FOLLOWING SHALL OCCUR:
- OPENINGS IN THE MAIN DUCTS ARE TO BE COVERED WITH A SHEET METAL PATCH. THE PATCH IS TO BE LARGER THAN THE EXISTING OPENING AND IS TO BE SECURED WITH SHEET METAL SCREWS FOUR INCHES ON CENTERS.
 - A LIBERAL QUANTITY OF FIRE RESISTANT ADHESIVE IS TO BE APPLIED TO THE EDGES OF THE METAL PATCH AND THE ASSEMBLY SCREWED IN PLACE.
- C. REFER TO THE ARCHITECTURAL PHASING PLAN FOR THE AREAS SHOWN ON THIS PLAN. WORK SHALL BE SCHEDULED AND PERFORMED IN SEQUENCE WITH THE PHASING PLAN.
- D. DEMOLITION OF EACH PHASE SHALL OCCUR AS PART OF THE WORK FOR THAT PHASE. REMOVE ONLY THE WORK THAT SERVES THE AREA OF DEMOLITION.
- E. PROVISIONS SHALL BE MADE BY THE CONTRACTOR TO PREVENT DISRUPTING ADJACENT AREAS OF THE PHASE IN WHICH WORK IS BEING PERFORMED.
- F. PROVIDE ADDITIONAL VALVES, TAPS, TEMPORARY DUCTWORK AND/OR PIPING AS NECESSARY TO PROVIDE UNINTERRUPTED SERVICE TO AREAS OUTSIDE OF THE PHASE IN WHICH WORK IS BEING PERFORMED.
- G. ALL WORK SHALL BE PERFORMED IN STRICT COORDINATION WITH HOSPITAL SCHEDULES, OCCUPANCIES AND WORK. CONTRACTOR SHALL COORDINATE WITH HOSPITAL REPRESENTATIVE.
- H. ALL NECESSARY SHUTDOWNS OR OUT OF PHASE WORK SHALL BE SCHEDULED WITH THE HOSPITAL REPRESENTATIVE.
- I. FOR ALL MINOR RENOVATION AREAS, THE CONTRACTOR IS TO UNDERTAKE A FULL PRE-TAB OF ALL GRILLES AND DIFFUSERS WITHIN THE AREAS PRIOR TO DEMOLITION. THE REPORT SHOULD BE SENT TO THE EOR. UPON COMPLETION OF THE GRILLE/DIFFUSER REPLACEMENTS IN THESE AREAS, THE CONTRACTOR IS REQUIRED TO RE-BALANCE THE SYSTEM BACK TO THE VALUES DOCUMENTED WITHIN THE PRE-TAB REPORT. PLEASE NOTE THE PRE-TAB IS TO BE PERFORMED PRIOR TO ANY WORK ASSOCIATED WITH THE RESPECTIVE SYSTEMS BEING UNDERTAKEN.

FIRE ALARM SEQUENCE OF OPERATION

UPON FIRE ALARM ALL AIR HANDLING UNITS AND ASSOCIATED EXHAUST FANS SHALL SHUT DOWN BASED ON THEIR RESPECTIVE SMOKE COMPARTMENTS. ALL ISOLATION EXHAUST FANS TO REMAIN IN OPERATION. ALL ASSOCIATED SMOKE AND COMBINATION FIRE/SMOKE DAMPERS SERVING SYSTEMS THAT SHUT OFF UPON FIRE ALARM SHALL CLOSE DURING FIRE ALARM.

DESIGN CRITERIA

LOCATION: CITY/STATE	LEE'S SUMMIT, MISSOURI
APPLICABLE CODES:	2018 IBC 2018 IBC 2018 IBC 2018 IECC 2017 NEC 2018 IFC
LATITUDE: DEG. N. LAT.	38.9
LONGITUDE: DEG. W. LONG.	94.3
ELEVATION: FT. ABOVE SEA LEVEL	997
ASHRAE SUMMER DESIGN CONDITIONS: 0.4% DRY BULB 0.4% WET BULB	86.9 F 78.5 F
ASHRAE WINTER DESIGN CONDITIONS: 99% WET BULB HCA DESIGN CRITERIA	3.9 F -10 F
BUILDING SPACE DESIGN TEMPERATURES: SUMMER DB WINTER DB	72 F 68 F
SUPPLY AIR TEMPERATURE: DEG. F. DRY BULB	55 F

MECHANICAL ABBREVIATIONS

AC	ABOVE CEILING	GEF	GENERAL EXHAUST FAN
AFF	ABOVE FINISHED FLOOR	HW	HEATING HOT WATER
AHU	AIR HANDLING UNIT	IBT	INVERTED BUCKET TRAP
AI	ANALOG INPUT	IN HG	INCHES MERCURY (PRESSURE)
AO	ANALOG OUTPUT	IN WC	INCHES WATER COLUMN (PRESSURE)
BF	BELOW FLOOR, BLIND FLANGE	LE	LAUNDRY EQUIPMENT
BFC	BELOW FINISHED CEILING	MA	MIXED AIR
BG	BELOW GRADE	MVD	MOTORIZED VOLUME DAMPER
BV	BUTTERFLY VALVE	N	NEW
CHW	CHILLED WATER	OA	OUTSIDE AIR
CRAC	COMPUTER ROOM A/C UNIT	OSD	OPPOSED BLADE DAMPER
CRU	CONDENSATE RETURN UNIT	PRV	PRESSURE RELIEF VALVE
CJ	CONDENSING UNIT	R	RELOCATED
DI	DIGITAL INPUT	RA	RETURN AIR
DO	DIGITAL OUTPUT	RCA	RECIRCULATED (RETURN) AIR
DS	DISCONNECT SWITCH	RLA	RELIEF AIR
E	EXISTING	SA	SUPPLY AIR
EDH	ELECTRIC DUCT HEATER	SF	SUPPLY FAN
EUH	ELECTRIC UNIT HEATER	SV	SAFETY VALVE
EA	EXHAUST AIR	TAV	THERMOSTATIC AIR VENT (STEAM SYSTEM)
EF	EXHAUST FAN	UH	UNIT HEATER
FCU	FAN COIL UNIT	UNO	UNLESS NOTED OTHERWISE
FMB	FILTER MOUNTING BOX	VAV	VARIABLE AIR VOLUME
FPB	FAN POWERED BOX	VD	VOLUME DAMPER
FPI	FINS PER INCH	WH	WATER HEATER
GC	GENERAL CONTRACTOR	WHP	WATER-SOURCE HEAT PUMP

CONTROL DIAGRAM SYMBOLS

SYMBOLS	DESCRIPTION
(AI)	ANALOG INPUT
(AO)	ANALOG OUTPUT
(DI)	DIGITAL INPUT
(DO)	DIGITAL OUTPUT
TT-X	TEMPERATURE TRANSMITTER #X
HT-X	RELATIVE HUMIDITY TRANSMITTER #X
V-X	CONTROL VALVE #X
SPT-X	STATIC PRESSURE TRANSMITTER #X
ESC-X	END SWITCH, NORMALLY CLOSED #X
ESO-X	END SWITCH, NORMALLY OPEN #X
TS-X	TEMPERATURE SENSOR #X
SD-X	SMOKE DETECTOR #X
OL	OVERLOAD RELAY #X
DPS-X	DIFFERENTIAL PRESSURE SENSOR #X
CSR-X	CURRENT SENSING RELAY #X
FM-X	FLOW METER #X
FS-X	FLOW SWITCH #X
EAS-X	EMERGENCY AIR HANDLER SHUT DOWN BUTTON #X

MECHANICAL SYMBOLS

SYMBOL	DESCRIPTION
(A/B)	NEW EQUIPMENT DESIGNATION (TOP - EQUIP. ABBREV., BOTTOM - MARK)
(A/B)	NEW DIFFUSER DESIGNATION (TOP - SCHEDULE DESIGN., BOTTOM - CFM)
(E)	NEW EQUIPMENT
(E)	EXISTING EQUIPMENT
(D)	NEW DUCT
(D)	EXISTING DUCT
(D)	EXISTING DUCT TO BE REMOVED OR RELOCATED
(D)	NEW SUPPLY DIFFUSER
(D)	EXISTING SUPPLY DIFFUSER
(D)	EXISTING SUPPLY DIFFUSER TO BE REMOVED OR RELOCATED
(D)	NEW R/A GRILLE
(D)	EXISTING R/A GRILLE
(D)	EXISTING R/A GRILLE TO BE REMOVED OR RELOCATED
(D)	NEW EXHAUST GRILLE
(D)	EXISTING EXHAUST GRILLE
(D)	EXISTING EXHAUST GRILLE TO BE REMOVED OR RELOCATED
(D)	NEW SLOT DIFFUSER
(D)	FLEXIBLE DUCT
(D)	EXISTING SLOT DIFFUSER
(D)	EXISTING SLOT DIFFUSER TO BE REMOVED OR RELOCATED
(T)	THERMOSTAT W/ BACKBOX AND CONDUIT TO ABOVE CEILING
(T)	EXISTING THERMOSTAT TO BE REMOVED OR RELOCATED
(D)	45 DEGREE PRESSURE TAP W/ VOLUME DAMPER
(D)	CONICAL TAP W/ VOLUME DAMPER
(D)	CONICAL TAP W/O VOLUME DAMPER
(D)	MANUAL DAMPER
(FD)	FIRE DAMPER
(SD)	SMOKE DAMPER
(FSO)	FIRE/SMOKE DAMPER
(M)	MOTORIZED DAMPER
(BD)	BAROMETRIC DAMPER
CHS	CHILLED WATER SUPPLY PIPE
CHR	CHILLED WATER RETURN PIPE
CS	CONDENSER WATER SUPPLY PIPE
CR	CONDENSER WATER RETURN PIPE
RL	REFRIGERANT LIQUID PIPE
RG	REFRIGERANT GAS PIPE
HWS	HEATING WATER SUPPLY
HWR	HEATING WATER RETURN
HPS	HIGH PRESSURE STEAM
HPR	HIGH PRESSURE CONDENSATE RETURN
LPS	LOW PRESSURE STEAM
LPR	LOW PRESSURE CONDENSATE RETURN
PCR	PUMPED CONDENSATE RETURN
---	DOMESTIC COLD WATER
---	DOMESTIC HOT WATER
---	DOMESTIC HOT WATER RETURN
SS	SANITARY WASTE LINE
CD	CONDENSATE DRAIN
---	DIRECTION OF SLOPE
---	DIRECTION OF FLOW
(L)	EXPANSION LOOP
(V)	GATE VALVE
(V)	BUTTERFLY VALVE
(V)	GLOBE VALVE
(V)	TEMPERATURE AND PRESSURE RELIEF VALVE
(V)	BALANCING VALVE
(V)	AUTOMATIC 2-WAY CONTROL VALVE
(V)	AUTOMATIC 3-WAY CONTROL VALVE
(V)	PLUG VALVE/BALANCING COCK
(V)	SOLENOID VALVE
(V)	CHECK VALVE
(V)	HYDRAULIC SHOCK ARRESTOR
(V)	VALVE VERTICAL
(U)	UNION
(V)	VACUUM BREAKER
(D)	P-TRAP
(D)	FLOOR DRAIN W/ P-TRAP
(HD)	HUB DRAIN
(FCO)	FLOOR CLEANOUT OR GRADE CLEANOUT
(WCO)	CLEANOUT OR WALL CLEANOUT
(P)	PETE'S PLUG
(G)	GAUGE COCK
(T)	THERMOMETER
(T)	THERMOMETER WELL
(S)	STRAINER W/ BLOW-OFF VALVE
(S)	F&T STEAM TRAP
(S)	STEAM BUCKET TRAP
(S)	CONNECT TO EXISTING
(EP)	ELECTRIC PNEUMATIC SWITCH
(T)	TRAP



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LAB & PHARMACY RENOVATION

HCA - LEE'S SUMMIT MEDICAL CENTER
 2100 SE BLUE PKWY
 LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
 CITY OF LEE'S SUMMIT BUILDING DEPT.
 MISSOURI DHS

FACILITY NUMBER:
 097240009

AGENCY APPROVALS:

REVISIONS		
REV #	DESCRIPTION	DATE
2	ASH-002	2026/02/09

DATE: 05/23/2025
 SCALE: N.T.S.
 DRAWN: HO
 REVIEWED: JD
 JOB NUMBER: 6406.24

GENERAL INFORMATION - MECHANICAL

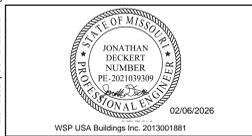
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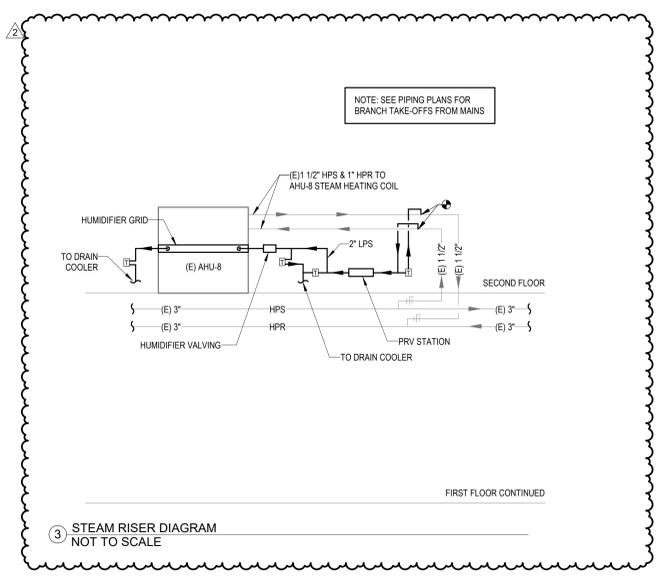
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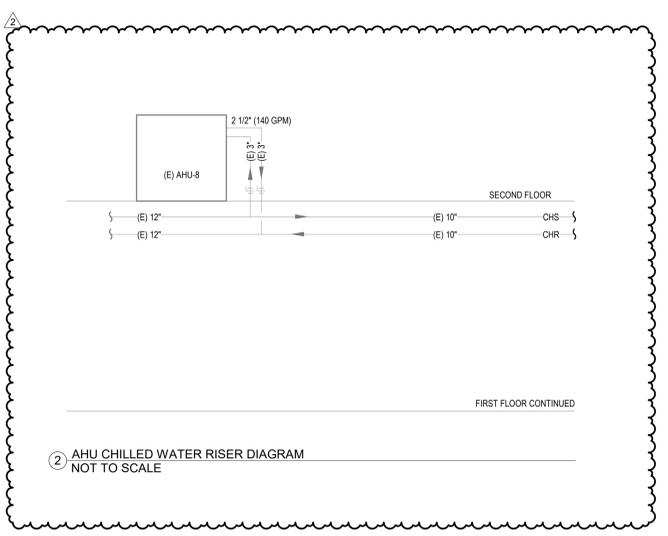
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RISER DIAGRAM - MECHANICAL

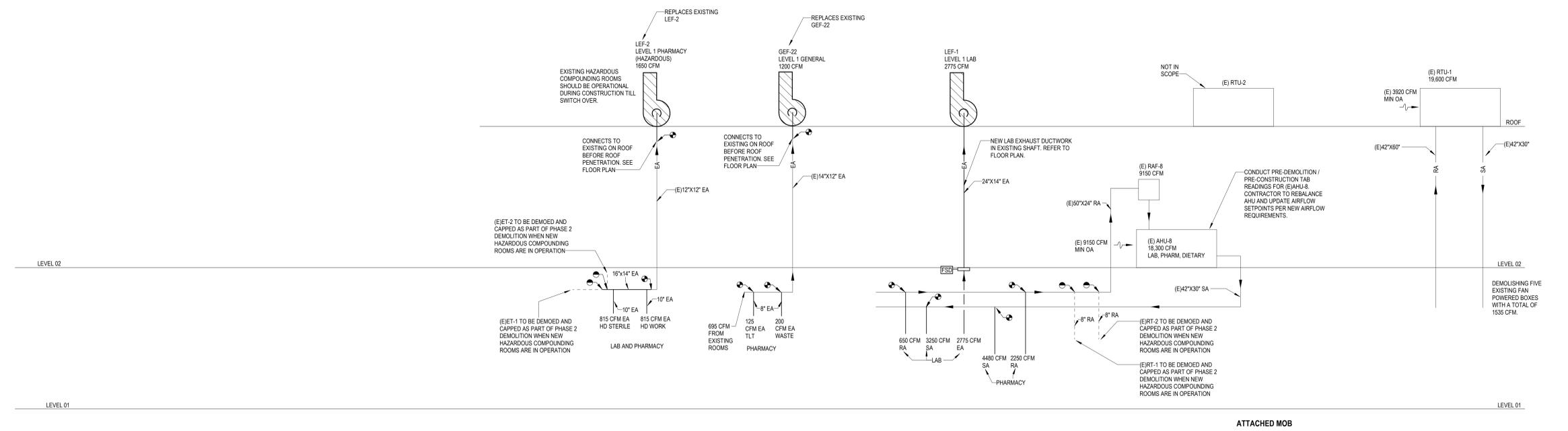
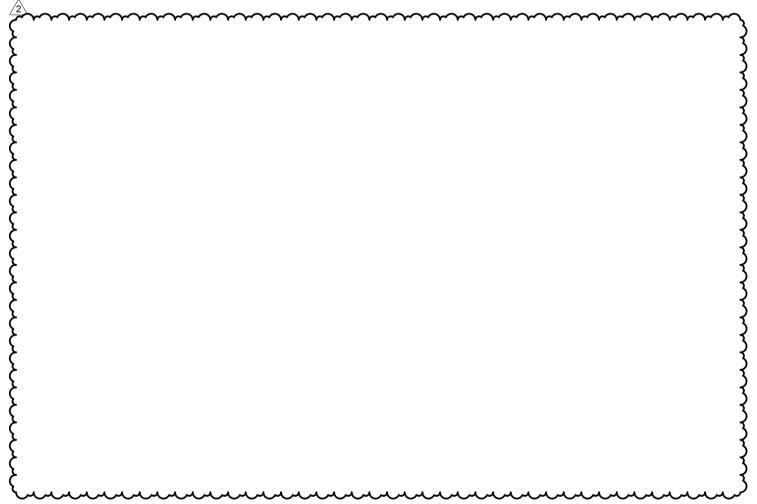
M06-01



3 STEAM RISER DIAGRAM
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2 AHU CHILLED WATER RISER DIAGRAM
NOT TO SCALE



1 AIR RISER DIAGRAM
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LAB & PHARMACY RENOVATION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY
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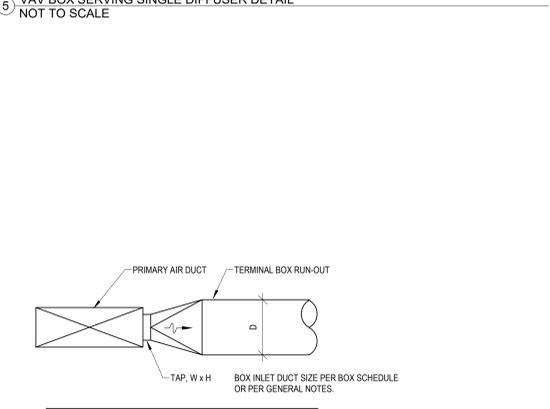
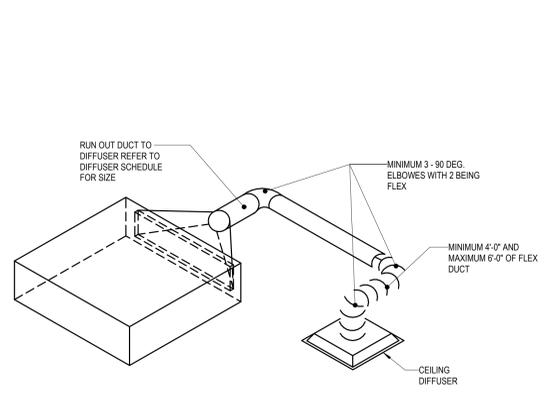
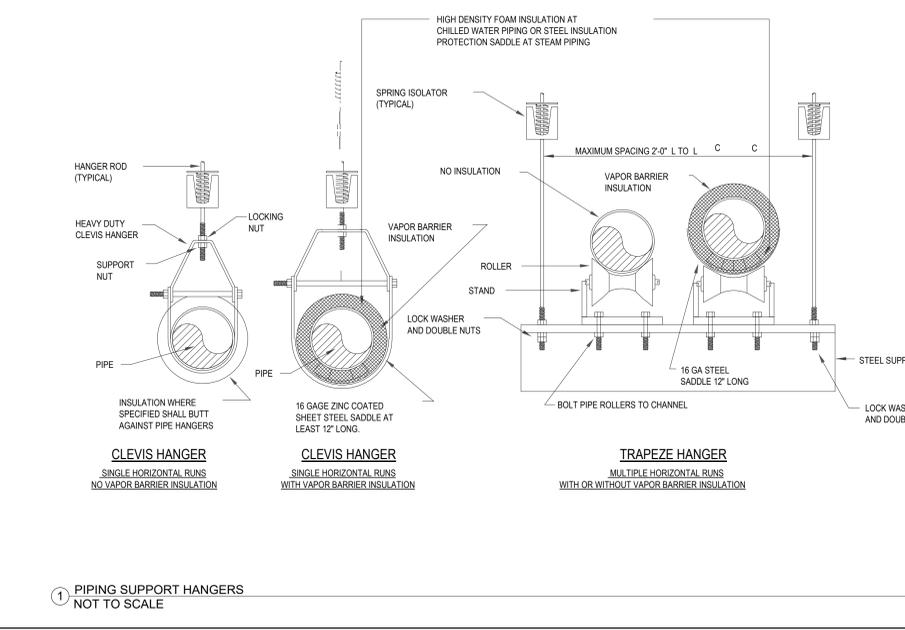
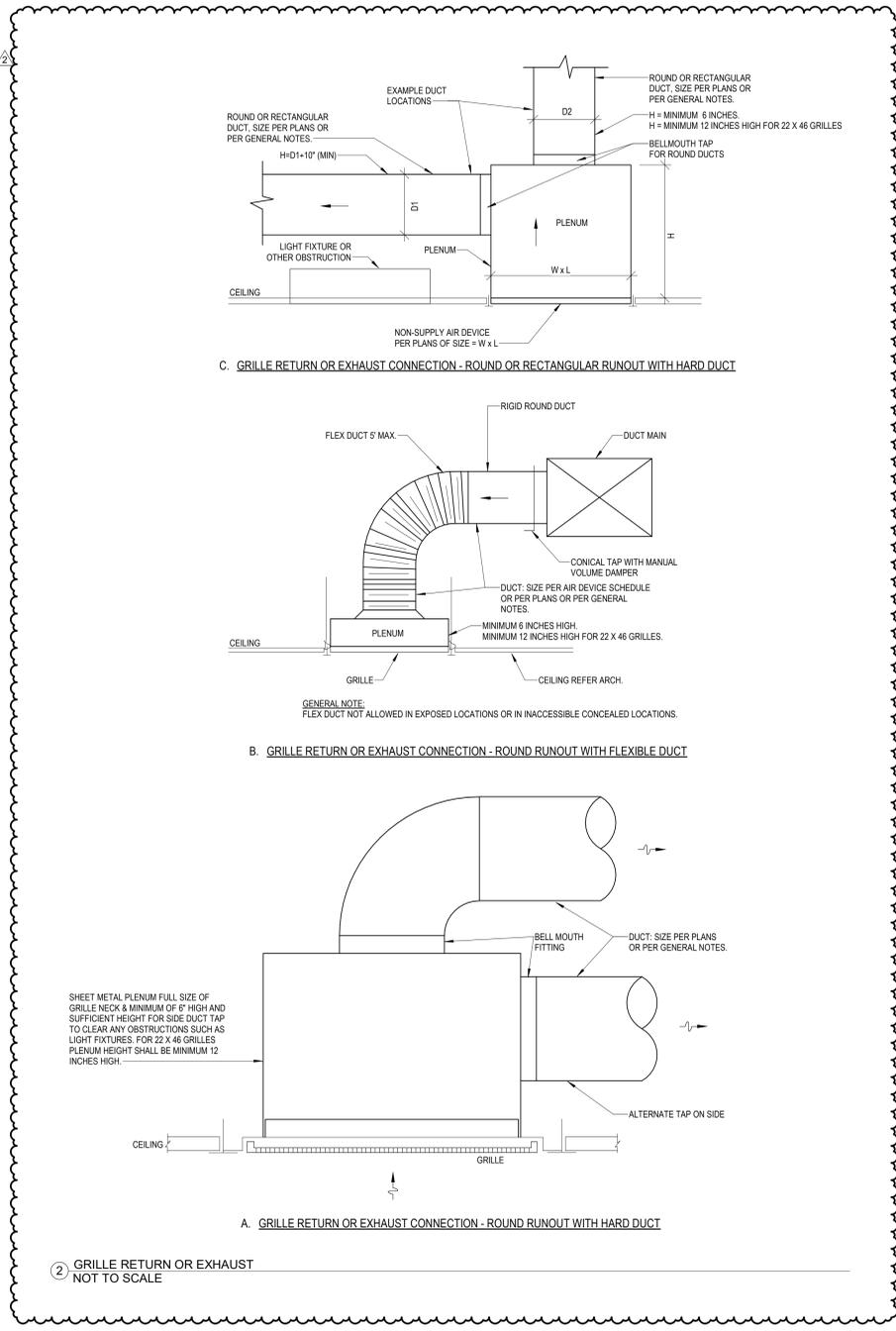
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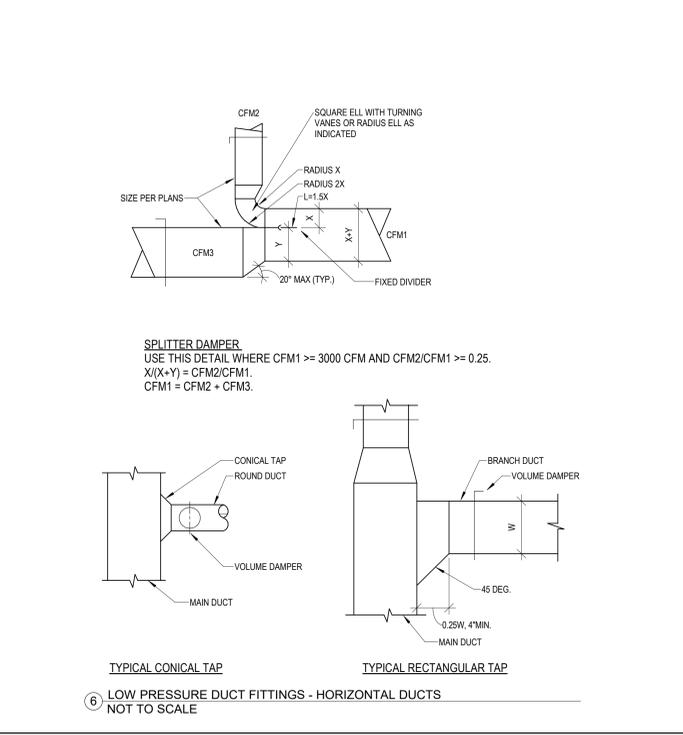
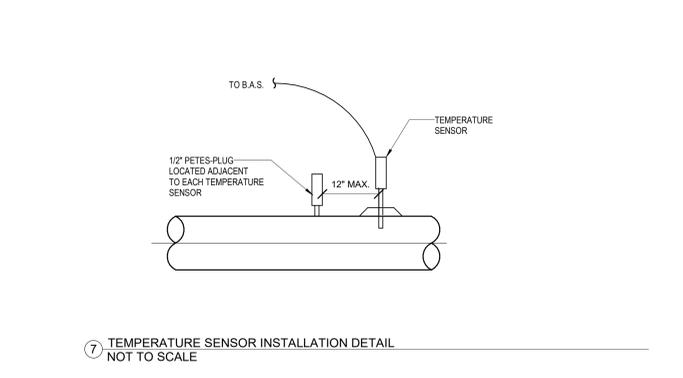
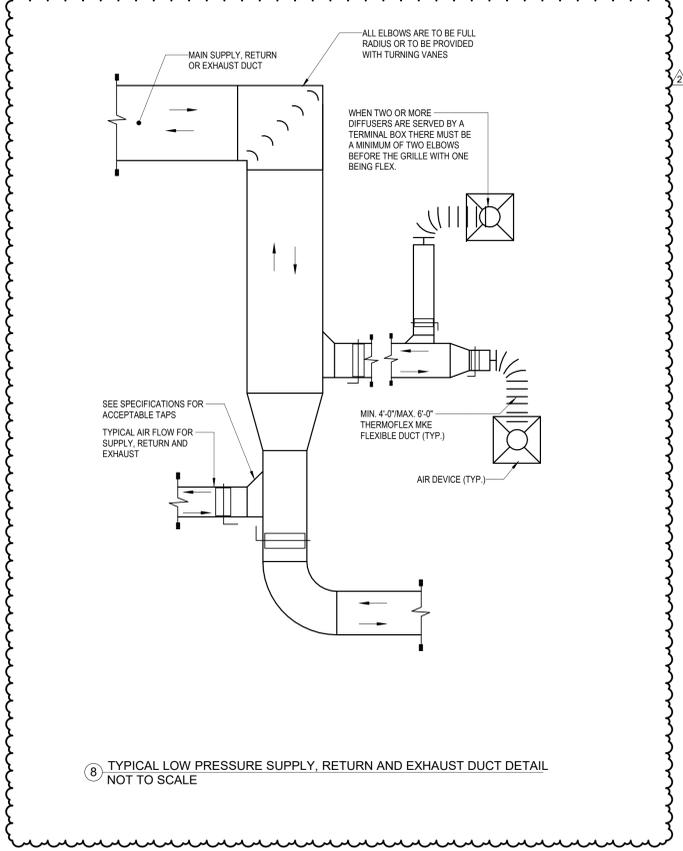
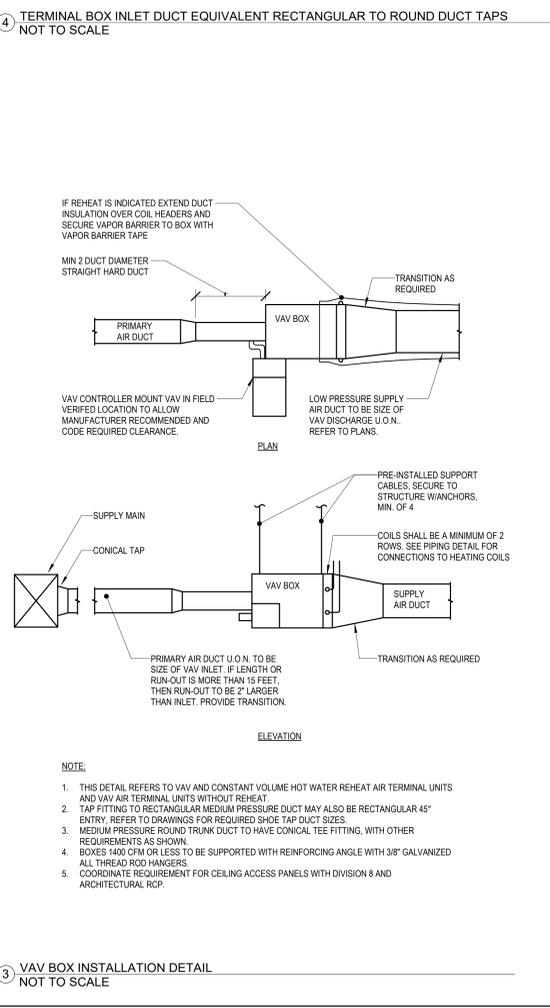
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DETAILS - MECHANICAL

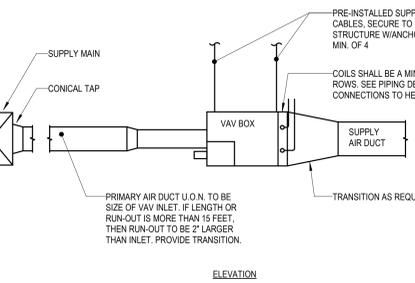
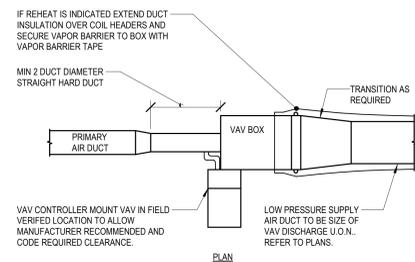
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D (INCHES)	TAP, W x H (INCHES)
8	10/6
10	10/8
12	12/10, 16/8
14	14/12, 16/10
16	16/14, 18/12, 22/10
18	18/16, 20/14, 24/12



SPLITTER DAMPER
USE THIS DETAIL WHERE CFM1 >= 3000 CFM AND CFM2/CFM1 >= 0.25.
 $X/(X+Y) = CFM2/CFM1$
 $CFM1 = CFM2 + CFM3$





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LAB & PHARMACY RENOVATION

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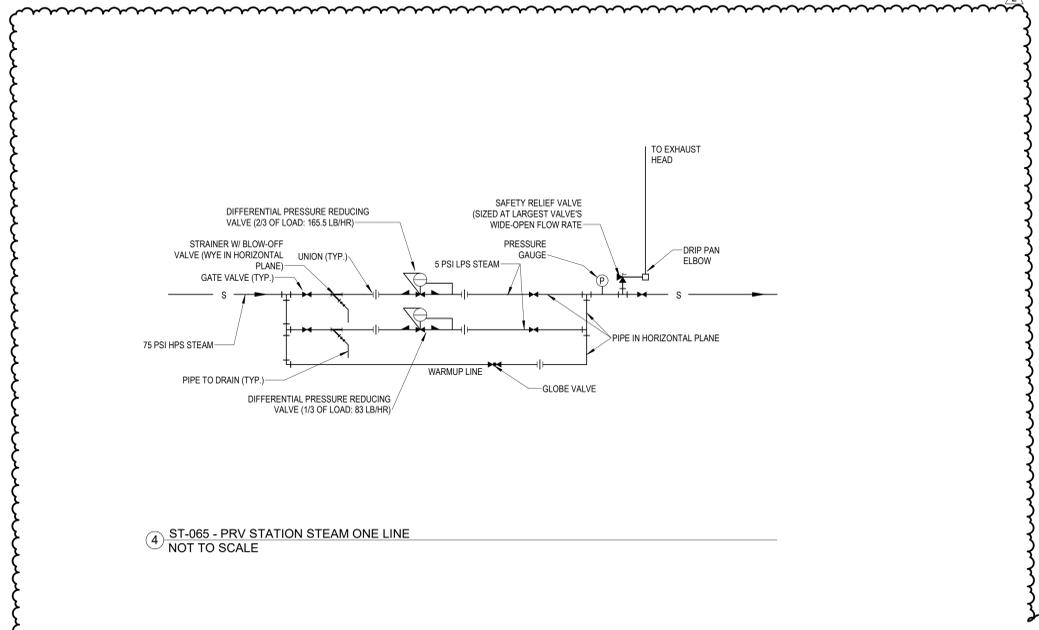
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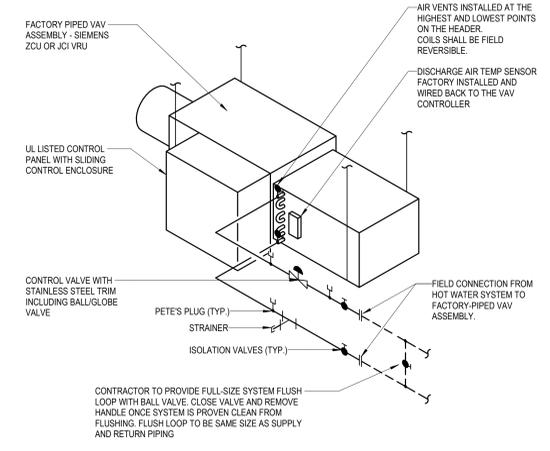
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DETAILS - MECHANICAL

M07-03

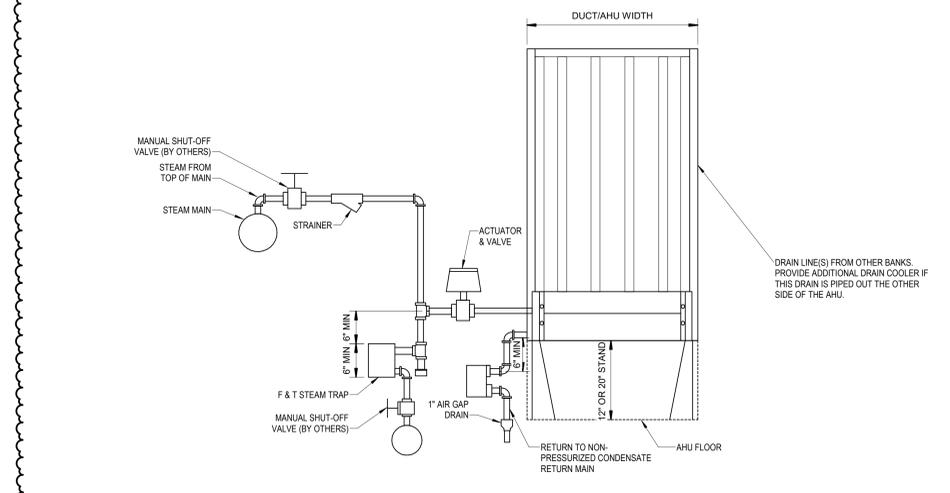


4 ST-065 - PRV STATION STEAM ONE LINE
NOT TO SCALE

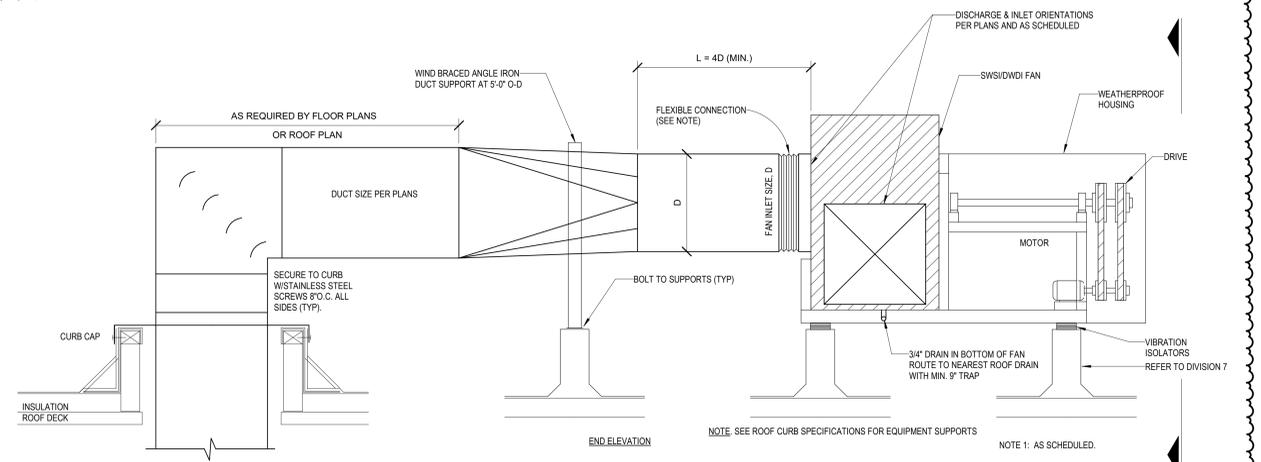


- NOTES:
- CONTRACTOR TO PROVIDE PIPING THE SAME FOR HEATING COIL IN HOT WATER REHEAT AIR TERMINAL AND FOR DUCT MOUNTED HOT WATER HEATING COILS.
 - MAINTAIN HOT WATER RETURN PIPING ELEVATION BELOW ELEVATION OF AIR VENT.

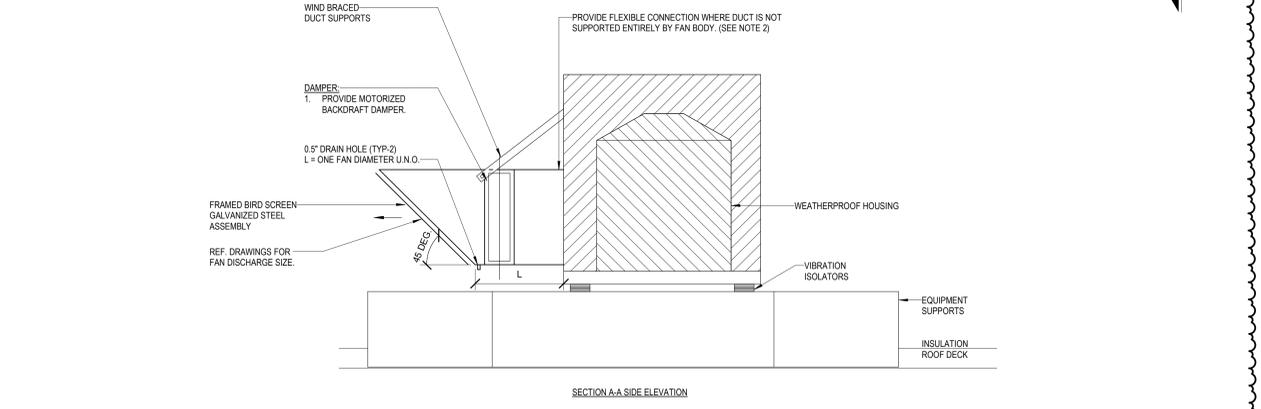
2 PIPING AT TERMINAL REHEAT
NOT TO SCALE



3 HUMIDIFIER-AHU-DIRECT STEAM-HPS TO LPS AND DRAIN COOLER
NOT TO SCALE



1 GENERAL EXHAUST FAN DETAIL
NOT TO SCALE



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SCHEDULES - MECHANICAL

M08-01

AIR DEVICE SCHEDULE

DESIG.	SIZE	OBD	FINISH	THROW	NECK SIZE	MAX NC LEVEL	MANUFACTURER/MODEL NO.	REMARKS/NOTES
S1	24"X24"	NO	WHITE	ADJ. 4-WAY	NOTE 1	25	PRICE / SPD	CEILING PLAQUE SUPPLY DIFFUSER
S2	12"X12"	NO	WHITE	ADJ. 4-WAY	NOTE 1	25	PRICE/SPD	CEILING PLAQUE SUPPLY DIFFUSER
R1	24"X24"	NO	WHITE	-	NOTE 1	25	PRICE / SPD	CEILING RETURN GRILLE
R2	12"X12"	NO	WHITE	-	NOTE 1	25	PRICE / SPD	CEILING RETURN GRILLE
R3	SEE PLANS	NO	WHITE	-	FULL SIZE	25	PRICE / 610Z	SIDEWALL RETURN GRILLE
E1	24"X24"	NO	WHITE	-	NOTE 1	25	PRICE/SPD	CEILING EXHAUST GRILLE
E2	12"X12"	NO	WHITE	-	NOTE 1	25	PRICE/SPD	CEILING EXHAUST GRILLE
E3	SEE PLANS	NO	WHITE	-	FULL SIZE	25	PRICE / 610Z	SIDEWALL EXHAUST GRILLE

GENERAL NOTES:
 A. CONTRACTOR TO COORDINATE FRAME STYLE WITH ARCHITECTURAL PLANS. FRAME TYPE SHALL MATCH CEILING TYPE AND MODULE DIMENSIONS.
 B. CONTRACTOR TO COORDINATE FINAL FINISHES WITH ARCHITECT. AIR DEVICES TO BE FACTORY PAINTED.
 C. NECK SIZES SHALL BE AS SCHEDULED UNLESS NOTED OTHERWISE ON PLANS.
 D. DUCT MOUNTED AIR DEVICES SHALL BE FLANGE MOUNTED. NO MOUNTING SCREWS SHALL BE VISIBLE EXCEPT ON EXPOSED DUCTWORK.

NOTES:
 1. 6"Ø 0-100 CFM
 8"Ø 101-225 CFM
 10"Ø 226-400 CFM
 12"Ø 401-600 CFM
 14"Ø 601-900 CFM
 15"x15" 901-1000 CFM

STEAM SYSTEM ACCESSORIES SCHEDULE

MARK	TYPE (DESCRIPTION)	SYSTEM APPLICATION	MINIMUM PRESSURE RATING (PSIG) (SATURATED)	BODY MATERIAL	INTERNAL CONSTRUCTION MATERIALS	INLET/OUTLET PIPING ARRANGEMENT	INTEGRAL COMPONENTS	CAPACITY			MODEL NO. (SARCO)	NOTES	
								SIZE (INCHES)	DIFFERENTIAL (PSI)	PPH			
FTT-1	FLOAT AND THERMOSTATIC TRAP	LPS ONLY	15	CAST IRON	STAINLESS STEEL	IN-LINE HORIZONTAL	1. FLOAT 2. THERMOSTATIC AIR VENT	0.75	0.25	279	0.22"	FTI-15	1,2
FTT-2								1.25	0.25	600	0.31"	FTI-15	1,2
FTT-3								1.50	0.25	1100	0.50"	FTI-15	1,2
FTT-4								2.00	0.25	2600	2 AT 0.75"	FTB-175	1,2
FTT-5								2.00	0.25	6000	0.94"	FTB-20	1,2
FTT-6								2.00	0.25	12000	2 AT 2.12"	FTB-30	1,2
FTT-7								2.50	0.25	19000	2 AT 2.12"	FTB-125	1,2
FTT-8	FLOAT AND THERMOSTATIC TRAP	HPS ONLY (NOTE 7)	125	CAST IRON	STAINLESS STEEL	IN-LINE HORIZONTAL	1. FLOAT 2. THERMOSTATIC AIR VENT	0.75	0.25	100	0.12"	FTI-125	1,2
FTT-9								1.25	0.25	400	0.29"	FTI-125	1,2
FTT-10								1.50	0.25	920	2 AT 0.38"	FTB-175	1,2
FTT-11								2.00	0.25	2600	2 AT 0.75"	FTB-175	1,2
FTT-12								2.50	0.25	7000	2 AT 1.50"	FTB-175	1,2
IBT-1	INVERTED BUCKET TRAP	HPS ONLY (NOTE 6)	125	CAST IRON	STAINLESS STEEL	IN-LINE HORIZONTAL	1. INVERTED BUCKET 2. STRAINER, MONEL 3. BIMETALIC AIR VENT, INTERNAL	0.75	0.25	446	0.12"	B1H-125	1,2,3
IBT-2								0.75	0.25	1100	0.20"	B2-125	1,2,3
IBT-3								1.0	0.25	2080	0.29"	B3-125	1,2,3
TAV-1	THERMOSTATIC AIR VENT	LPS HPS	125	BRASS	STAINLESS STEEL	1. VERTICAL INLET 2. HORIZONTAL OR VERTICAL OUTLET	1. THERMOSTATIC AIR VENT	0.38" X 0.25"	50 PSIG INLET	40 SCFM AIR	-	T202	2,4
TAV-2								0.50	50 PSIG INLET	88 SCFM AIR	-	VS204	1,2
TAV-3								0.75	50 PSIG INLET	112 SCFM AIR	-	VS206	1,2
VB-1	VACUUM BREAKER	LPS HPS	125	BRASS	STAINLESS STEEL	1. VERTICAL INLET 2. HORIZONTAL OUTLET	1. BALL CHECK VALVE	0.5" X 0.12"	6" HG VACUUM	4.0 SCFM AIR	-	VB14	2,4,5

NOTES:
 1. BOLTED COVER.
 2. SERVICABLE UNIT WITHOUT REMOVING FROM PIPING.
 3. INSTALL ONE TAV-1 EXTERNALLY PIPED ON INLET SIDE OF EACH IBT.
 4. THREADED COVER.
 5. VACUUM REQUIRED TO OPEN = 2 INCHES WC (0.15 IN HG).

EXHAUST/RETURN AIR TERMINAL SCHEDULE

DESIGNATION	SERVICE DESCRIPTION	ROOM(S)	MANUFACTURER / MODEL	CATALOG NUMBER	DUCT SIZE	CFM	V/PH	NOTES
EAV-1	EXISTING LEF-2	HD STERILE COMP ROOM	PHOENIX CONTROLS / THERIS TX	HEVA110M-ALDHZ	10"	815	120 / 1	ALL
EAV-2	EXISTING LEF-2	HD WORK/STOR	PHOENIX CONTROLS / THERIS TX	HEVA110M-ALDHZ	10"	815	120 / 1	ALL

NOTES:
 A. THIRD PARTY FURNISHED CONTROLS SHALL BE FACTORY MOUNTED.
 B. INLET SIZE SCHEDULED IS THE MINIMUM ALLOWABLE INLET SIZE. NO EXCEPTIONS.
 C. AIR VALVE MANUFACTURER TO PROVIDE FACTORY INSTALLED CONTROL POWER (CP) TRANSFORMER. COORDINATE WITH ELECTRICAL DRAWINGS.
 D. PROVIDE THE FOLLOWING ACCESSORIES: FUME HOOD DISPLAY (FHD500-DHV), VERTICAL SASH SENSOR (VSS4-0100-A), AND ZONE PRESENCE SENSORS (ZPS310)

(E)AHU-8 TERMINAL UNIT W/ HEATING WATER COIL SCHEDULE

DESIGNATION	INLET SIZE (IN)	MIN CFM	MAX HEATING CFM	MAX COOLING CFM	OUTLET SIZE (IN/IN)	VALVE MAX APD (IN WG)	EAT DB °F	LAT DB °F	EWT °F	H.W. COIL		MIN ROWS	MAX N.C.	JCI MODEL NUMBER	NOTES	
										MAX WATER P.D. (FT)	MAX FLOW GPM					
VAV-8-1	8"	625	625	625	10 / 12	0.25	52	95	140	110	10	1.5	2	30	TSS-08	ALL
VAV-8-2	8"	325	325	325	8 / 12	0.25	52	95	140	110	10	0.8	2	30	TSS-08	1, 3-12
VAV-8-3	8"	575	575	575	10 / 12	0.25	52	95	140	110	10	1.4	2	30	TSS-08	1, 3-12
VAV-8-4	6"	350	350	350	8 / 12	0.25	52	95	140	110	10	0.9	2	30	TSS-06	1, 3-12
VAV-8-5	6"	150	150	150	8 / 12	0.25	52	95	140	110	10	0.4	2	30	TSS-06	1, 3-12
VAV-8-6	8"	650	650	650	10 / 12	0.25	52	95	140	110	10	1.6	2	30	TSS-08	1, 3-12
VAV-8-7	8"	150	150	500	10 / 12	0.25	52	95	140	110	10	0.4	2	30	TSS-08	1, 3-12
VAV-8-8	12"	1,250	1,250	1,250	15 / 16	0.25	52	95	140	110	10	3.1	2	30	TSS-12	1, 3-12
VAV-8-9	6"	100	100	300	8 / 12	0.25	52	95	140	110	10	0.3	2	30	TSS-06	1, 3-12
VAV-8-10	6"	100	100	175	8 / 12	0.25	52	95	140	110	10	0.3	2	30	TSS-06	1, 3-12
VAV-8-11	8"	475	475	475	10 / 12	0.25	52	95	140	110	10	1.2	2	30	TSS-08	1, 3-12
VAV-8-12	8"	665	665	665	10 / 12	0.25	52	95	140	110	10	1.7	2	30	TSS-08	1, 3-12
VAV-8-13	8"	665	665	665	10 / 12	0.25	52	95	140	110	10	1.7	2	30	TSS-08	1, 3-12
VAV-8-14	10"	800	800	800	12.5 / 14	0.25	52	95	140	110	10	2.0	2	30	TSS-10	1, 3-12
VAV-8-15	6"	75	75	225	8 / 12	0.25	52	95	140	110	10	0.2	2	30	TSS-06	1, 3-12

NOTES:
 1. MIN MBH = GPM x 15.
 2. PROVIDE 3 WAY VALVE AS INDICATED ON DRAWINGS.
 3. UNIT MOUNTED / WIRED FACTORY CONTROL PANEL.
 4. PRESSURE INDEPENDENT CONTROLS COMPATIBLE WITH BUILDING CONTROLS SYSTEM.
 5. CONSTANT AIR VOLUME (CAV) BOXES SHALL BE IDENTICAL TO VARIABLE AIR VOLUME (VAV) BOXES.
 6. FACTORY INTERNAL INSULATION: INTERNAL FIBER FREE CLOSED CELL INSULATION.
 7. CFM DELIVERY SHALL BE ACCURATE WITHIN 5% OF FROM 25-100% OF SCHEDULED BOX CFM.
 8. H.W. COIL SHALL BE LOCATED AS DISCHARGE OF BOX.
 9. OUTLET PLENUM BY INCLUDED BY MANUFACTURER. COORDINATE WITH RUNOUT SIZES TO AIR DEVICES. PROVIDE TRANSITION FROM BOX OUTLET PLENUM TO DUCTWORK. UPSIZE AS REQUIRED.
 10. CONTROLS SHALL BE FURNISHED AND SHIPPED TO TERMINAL BOX FACTORY BY TEMPERATURE CONTROLS MANUFACTURER. CONTROLS SHALL BE INSTALLED AT TERMINAL BOX FACTORY BY TERMINAL BOX MANUFACTURER.
 11. PROVIDE PIPING CONNECTION TO TERMINAL UNIT REHEAT COILS AS SCHEDULED:
 0 - 4.0 GPM : 3/4"
 4.1 - 8.0 GPM : 1"
 8.1 - 15.0 GPM : 1-1/4"
 12. VAV BOXES SHALL NOT EXCEED A 95° LEAVING AIR TEMPERATURE WHEN BOX MODEL AND HEATING COIL ARE SELECTED BY MANUFACTURER.

FAN FILTER UNIT SCHEDULE

DESIGNATION	ROOM(S)	MANUFACTURER	MODEL	FACE SIZE	AIR FLOW (CFM)	S/A CONNECTION (IN)	MOTOR		ELECTRICAL		NOTES
							(QTY)	(TYPE)	V/PH	FLA	
FFU-4	HD STERILE COMP ROOM	PRICE	FFU	24"X48"	665	12"	1	ECM	115 / 1	4.8	ALL
FFU-5	HD WORK/STOR	PRICE	FFU	24"X48"	665	12"	1	ECM	115 / 1	4.8	ALL
FFU-6	STERILE COMP	PRICE	FFU	24"X48"	350	12"	1	ECM	115 / 1	4.8	ALL
FFU-7	ANTE ROOM	PRICE	FFU	24"X48"	475	12"	1	ECM	115 / 1	4.8	ALL

NOTES:
 A GALVANIZED CONTROL BOX WITH DISCONNECT SWITCH
 B MOTOR/BLOWER AND CONTROLS ACCESSIBLE FROM ROOMSIDE AND TOPSIDE
 C ROOMSIDE REMOVABLE FILTER: HEPA 2" IEST RP CC001 TYPE J
 D PLENUM CONSTRUCTION: ALUMINUM PLENUM, EXTRUDED KNIFE EDGE FRAME
 E FACE CONSTRUCTION: ALUMINUM (EXTRUDED FRAME) WITH URETHANE GEL
 F PLENUM FINISH: B12 STANDARD WHITE
 G EC MOTOR 50/60 HZ 1 PHASE, CONSTANT TORQUE MOTOR PROGRAM
 H FORWARD CURVED WHEEL
 I BACNET FLOW CONTROLLER, MOTOR AND FILTER STATUS OVER BACNET
 J WASHABLE PRE-FILTER WITH SIDE ACCESS HOUSING
 K 1/2" DIAMETER BARNED ROOMSIDE AEROSOL INJECTION PORT
 L WALKABLE PLENUM, LAY-IN CEILING INSTALLATION, SQUARE INLET COLLAR
 M FILTER STATUS LIGHTS ON FACE OF DIFFUSER

STEAM HUMIDIFIER SCHEDULE

MARK	EQUIPMENT SERVED	MANUFACTURER	PSI	CFM	HUMIDIFICATION LOAD LBS/HR	DIMENSIONS (IN)	ABSORPTION DISTANCE (FT)	NOTES
H-8	EXISTING AHU-8	CONDAIR	5	18300	248.5	86X80	1.14	ALL

NOTES:
 1. MULTI-TUBE DISPERSION. ALLOW 18" HEIGHT ALONG BOTTOM OF COIL FACE AREA FOR CONDENSATE DRAINAGE.
 2. OTHER REQUIRED COMPONENTS:
 DUCT HIGH LIMIT HUMIDISTAT.
 AIR FLOW SWITCH.
 DRAIN COOLER, HORIZONTAL STYLE.
 ELECTRIC MODULATING STEAM VALVES.
 RETURN AIR HUMIDISTAT

FAN SCHEDULE

DESIGNATION	LOCATION	SERVES	CFM	ESP (IN WG)	BHP	MAX dBA	FAN DATA			ELECTRICAL MOTOR DATA			AVAILABLE FAULT SCCR (AMPS)	APPROX. WEIGHT (LBS)	MANUF. - MODEL	NOTES
							TYPE	RPM	DRIVE	HP	VOLT / PH	STARTER				
GEF-22	ATTACHED MOB ROOF (LEVEL 3)	GENERAL 1ST FLOOR	1200	1.5	0.56	64	CENTRIFUGAL BLOWER	1635	DIRECT	3 / 4	208 / 3	HOA	*	151	GREENHECK USF-13-B7	1-4, 6, 9
LEF-1	ATTACHED MOB ROOF (LEVEL 3)	LAB 1ST FLOOR	2775	2	1.68	77	CENTRIFUGAL BLOWER	2447	DIRECT	2	208 / 3	VFD	*	213	GREENHECK USF-13-B6	1-8
LEF-2	ATTACHED MOB ROOF (LEVEL 3)	HAZARDOUS COMPOUNDING 1ST FLOOR	1650	1.5	0.62	67	CENTRIFUGAL BLOWER	1804	DIRECT	3 / 4	208 / 3	VFD	*	151	GREENHECK USF-13-B7	1-8

NOTES:
 1. PROVIDE MOTORIZED BACKDRAFT DAMPER.
 2. PROVIDE BIRDSCREEN.
 3. 24" HIGH STEEL CURB, INSULATED, SLOPED BASE, LEVEL TOP.
 4. SCROLL DRAIN PLUG, ALL WELDED STEEL FAN HOUSING, ALL WELDED STEEL FAN WHEEL, CLEAN OUT PLATE ON FAN HOUSING, 95% SPRING RUBBER VIBRATION ISOLATORS, MOTOR & DRIVE COVER, FLANGED DUCT OUTLET.
 5. UPBLAST DISCHARGE.
 6. PROVIDE FLEX CONNECTION AT FAN INLET.
 7. DISCONNECT SWITCH TO BE INTERLOCKED WITH VFD.
 8. EXHAUST STACK 10 FT FROM FINISHED ROOF.
 9. HORIZONTAL DISCHARGE.

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