HVAC SYMBOLS LIST

SYMBOL	DESCRIPTION
AAD	AUTOMATIC AIR DAMPER
ACC	AIR-COOLED CONDENSING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
BBD	BOILER BLOW DOWN
BD	BACKDRAFT DAMPER
CA	COMPRESSED AIR
CD	COOLING COIL CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CR	CONDENSER WATER RETURN
CS	CONDENSER WATER SUPPLY
CW	DOMESTIC COLD WATER
D	DRAIN
(E)	EXISTING
EA	EXHAUST AIR
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
ERHC	ELECTRIC REHEAT COIL
ETR	EXISTING TO REMAIN
EUH	ELECTRIC UNIT HEATER
F&T	FLOAT AND THERMOSTATIC TRAP
FCU	FAN-COIL UNIT
FPM	FEET PER MINUTE
FT	FIN-TUBE
GC	GENERAL CONTRACTOR
GR	GLYCOL RETURN
GS	GLYCOL SUPPLY
HC	HVAC CONTRACTOR
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
HP	HEAT PUMP
HPC	HIGH PRESSURE CONDENSATE
HPS	HIGH PRESSURE STEAM
LF	LINEAR FOOTAGE OF FIN-TUBE RADIATION
LPC	LOW PRESSURE CONDENSATE
LPG	LIQUEFIED PROPANE GAS
LPS	LOW PRESSURE STEAM
MBH	1,000 BTU/HR
MC	MECHANICAL CONTRACTOR
MPC	MEDIUM PRESSURE CONDENSATE
MPS	MEDIUM PRESSURE STEAM
MRD	MONOFLO FITTING DOWN – HHWR
MSD	MONOFLO FITTING DOWN – HHWS
MUW	MAKE-UP WATER
NC	NORMALLY CLOSED
NG	NATURAL GAS
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
PC	PLUMBING CONTRACTOR
PD	PUMP DISCHARGE
PHWR	PRIMARY HEATING HOT WATER RETURN
PHWS	PRIMARY HEATING HOT WATER SUPPLY
RA	RETURN AIR
RD	REFRIGERANT DISCHARGE
RHC	HOT WATER REHEAT COIL
RLL	REFRIGERANT LIQUID PIPE
RSL	REFRIGERANT SUCTION PIPE
RTU	ROOFTOP UNIT
RV	ROOF VENT
SA	SUPPLY AIR
SHWR	SECONDARY HEATING HOT WATER RETURN
SHWS	SECONDARY HEATING HOT WATER SUPPLY
SSI	SPLIT SYSTEM INDOOR SECTION (EVAPORATOR SECTION)
SSO	SPLIT SYSTEM OUTDOOR SECTION (CONDENSING UNIT)
TC	TEMPERATURE CONTROLS CONTRACTOR
UH	UNIT HEATER
UV	UNIT VENTILATOR
V	VENT
WAHP	WATER-TO-AIR HEAT PUMP
WWHP	WATER-TO-WATER HEAT PUMP

SYMBOL	DESCRIPTION
	CONNECTION - TOP
	CONNECTION - BOTTOM
	DIRECTION OF FLOW
	REDUCER
	CAP OR PLUG
	ELBOW DOWN
	ELBOW UP
	TEE OUTLET - UP
	TEE OUTLET - DOWN
	UNION
	GATE VALVE
	BALL VALVE
	BALANCING VALVE
	STRAINER
	STRAINER WITH BLOW-DOWN
	BUTTERFLY VALVE
	BUTTERFLY CONTROL VALVE, PNEUMATIC 2-WAY
	BUTTERFLY CONTROL VALVE, ELECTRIC ACTUATOR
	GLOBE VALVE
	CHECK VALVE
	TRIPLE DUTY VALVE
	GAS COCK, PLUG VALVE
	UNDERCUT DOOR 1"
	LOUVERED DOOR W/ SQ. FT. OF FREE AREA
	AIR VENT - MANUAL
	AIR VENT - AUTOMATIC
	FLANGE
	CONTROL/SOLENOIND VALVE, ELECTRIC 2-WAY
	CONTROL VALVE, ELECTRIC 3-WAY
	CONTROL VALVE, PNEUMATIC 2-WAY
	CONTROL VALVE, PNEUMATIC 3-WAY
	RELIEF / SAFETY VALVE
	PRESSURE REDUCING VALVE
	VACUUM BREAKER
	FLEXIBLE PIPE CONNECTOR
	EXPANSION COMPENSATOR W/ GUIDES
	EXPANSION JOINT
	PIPE ANCHOR
	PIPE GUIDE
	THERMOSTATIC TRAP
	FLOAT & THERMOSTATIC TRAP
	BUCKET TRAP
	THERMODYNAMIC TRAP
	THERMOMETER
	WELL
	PRESSURE GAUGE
	STEAM PRESSURE GAUGE WITH 1/4" NEEDLE VALVE
	PRESSURE GAUGE WITH 1/4" NEEDLE VALVE
	PNEUMATIC (CONTROL) TUBING
	BUTTERFLY VALVE WITH PNEUMATIC AND MANUAL OPERATORS
XX	PIPING
XX	PIPING BELOW GRADE
	BASE MOUNTED PUMP
	IN-LINE PUMP
	AIR TERMINAL UNIT WITH REHEAT COIL AND SOUND ATTENUATOR
	AIR TERMINAL UNIT WITH SOUND ATTENUATOR
	AIR TERMINAL UNIT WITH REHEAT COIL
	AIR TERMINAL UNIT
W/W ENCL.	WALL TO WALL FIN TUBE ENCLOSURE

SYMBOL	DESCRIPTION
(DBL)	DOUBLE WALL LINED DUCT
20/10	DUCT SECTION - SUPPLY
20/10	DUCT SECTION - RETURN/EXHAUST
A"	DUCT SECTION - ROUND DUCT IN INCHES
AXB FO	DUCT SECTION - FLAT OVAL DUCT IN INCHES
	ACOUSTIC THERMAL LINING
	FLEXIBLE DUCTWORK
FC	FLEXIBLE CONNECTION
	FIRE DAMPER
	SMOKE DAMPER
	COMBINATION FIRE AND SMOKE DAMPER
VD	VOLUME DAMPER
	DAMPER CONTROL, PARALLEL BLADE
	DAMPER CONTROL, OPPOSED BLADE
AAD	AUTOMATIC AIR DAMPER
BDD	BACK DRAFT DAMPER
BG	BLAST GATE
20/10 / 12X10 / 10/20	AIR DUCT (FIRST FIGURE IS DUCT WIDTH/TOP, SECOND FIGURE IS DUCT DEPTH)
	MULTI-BLADE AIR EXTRACTOR
	TURNING VANES
	EXISTING WORK TO BE REMOVED (HATCHED)
P	POINT OF CONNECTION
R	POINT OF DISCONNECTION
	AIR FLOW SENSOR
	FILTER
	TRANSITION SQUARE TO ROUND
	HUMIDIFIER DISPERSION TUBE
RISE / R	RISE IN DUCT
DROP / D	DROP IN DUCT
	SQUARE CEILING DIFFUSER (4 WAY)
	ROUND CEILING DIFFUSER
	SQUARE OR RECTANGULAR CEILING GRILLE
	SUPPLY REGISTER, RETURN OR EXHAUST GRILLE
1-WAY 2-WAY 3-WAY	SUPPLY DIFFUSER, 1-WAY, 2-WAY, 3-WAY
8"Ø, D-3, 300 CFM	CEILING DIFFUSER WITH NECK SIZE, TYPE, & CFM
10"x10", G-3, 300 CFM	CEILING RETURN OR EXHAUST GRILLE WITH SIZE, TYPE, & CFM
10"x8", R-2, 300 CFM	SUPPLY REGISTER WITH SIZE, TYPE, & CFM
10"x8", G-2, 300 CFM	RETURN OR EXHAUST GRILLE WITH SIZE, TYPE, & CFM
	AIR FLOW
L1	ACOUSTIC/THERMAL DUCTWORK LINING - 1 INCH THICK
L2	ACOUSTIC/THERMAL DUCTWORK LINING - 2 INCH THICK
PL1	ACOUSTIC/THERMAL DUCTWORK PLENUM LINING - 1 INCH THICK
PL2	ACOUSTIC/THERMAL DUCTWORK PLENUM LINING - 2 INCH THICK

SYMBOL	DESCRIPTION
	SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
	SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
	SUPPLY AIR TAKEOFFS
	SUPPLY AIR TAKEOFFS
	SUPPLY AIR TAKEOFFS
	SUPPLY/RETURN EXHAUST AIR TAKEOFFS W/ REGISTER/GRILLE/ DIFFUSER
	SUPPLY/RETURN EXHAUST AIR END OF MAIN BRANCH TAKEOFFS
	SUPPLY/RETURN EXHAUST AIR END OF MAIN BRANCH TAKEOFFS
	LONG RADIUS 90° ELBOW R/W=1.5
	LONG RADIUS 45° ELBOW R/W=1.5
	90° ELBOW WITH TURNING VANES
	90 VERTICAL SPLIT OFF (PLAN VIEW)
	DUCT TURNING UP OR DOWN
U MAX MIN	AIR TERMINAL UNIT-DUCTWORK U - UNIT TYPE MAX = MAXIMUM CFM MIN = MINIMUM CFM
U GPM MAX	AIR TERMINAL UNIT-DUCTWORK U - UNIT TYPE GPM = GALLONS PER MIN MAX = MAXIMUM GPM
U MAX MIN FAN	FAN POWERED AIR TERMINAL UNIT U - UNIT TYPE MAX = PRIMARY MAX CFM MIN = PRIMARY MIN CFM FAN = FAN CFM
TYPE / COIL SIZE / CLNG GPM / HTNG GPM	TYPE = VALANCE TYPE COIL SIZE = COIL LENGTH CLNG GPM = COOLING GPM HTNG GPM = HEATING GPM
X / XX	X = DIFFUSER OR GRILL TYPE XX = AIR FLOW VALUE (CFM)

SYMBOL	DESCRIPTION
	ELECTRIC/PNEUMATIC SWITCH OR RELAY
	PNEUMATIC/ELECTRIC SWITCH OR RELAY
CT	CURRENT TRANSDUCER
	OPEN/CLOSED
	START/STOP
	ENABLE/DISABLE
T	TEMPERATURE SENSOR (DUCT OR PIPE MOUNTED)
H	HUMIDITY SENSOR (DUCT MOUNTED)
F	FLOW TRANSMITTER
P	PRESSURE TRANSMITTER
DP	DIFFERENTIAL PRESSURE TRANSMITTER
E/P	ELECTRIC/PNEUMATIC TRANSDUCER
E/E	ELECTRIC/ELECTRONIC TRANSDUCER
	DUCT SMOKE DETECTOR
T	SPACE THERMOSTAT
T	SPACE TEMPERATURE SENSOR
CO_2	SPACE CARBON DIOXIDE SENSOR
CH_4	SPACE NATURAL GAS SENSOR
CO	SPACE CARBON MONOXIDE SENSOR
G	SPACE SENSOR WITH GUARD
H	SPACE HUMIDISTAT
FS	WATER FLOW SENSOR
P/A	PNEUMATIC ACTUATOR
E/A	ELECTRIC ACTUATOR
VSD VFD	VARIABLE SPEED / FREQUENCY DRIVE
C	COOLING COIL
H	HEATING COIL
G	GAS FURNACE
H	HUMIDIFIER
A	ALARM
S	STATUS
FS	FLOW SWITCH
ΔP	DIFFERENTIAL STATIC PRESSURE SWITCH
R	RELAY
	PRESSURE GAUGE
FZ	FREEZE-STAT
DI	DIGITAL INPUT (TO BUILDING MANAGEMENT SYSTEM)
DO	DIGITAL OUTPUT (FROM BUILDING MANAGEMENT SYSTEM)
AO	ANALOG OUTPUT (FROM BUILDING MANAGEMENT SYSTEM)
AI	ANALOG INPUT (TO BUILDING MANAGEMENT SYSTEM)
	ELECTRICAL INTERFACE
SF	SPEED FEED BACK
ES	END SWITCH
PF	POSITION FEEDBACK
	TRAVERSE AVERAGING SENSOR
	PROBE SENSOR
	FREEZE STAT SENSOR

SYMBOLS GENERAL NOTES:

1) VALVE AND DAMPER ACTUATOR TYPES (ELECTRIC OR PNEUMATIC) WHICH ARE INDICATED IN HVAC TEMPERATURE CONTROL DRAWINGS SHALL SUPERSEDE TYPE INDICATED ON ALL OTHER HVAC DRAWINGS.

HVAC CONTRACTOR GENERAL NOTES:

A. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS WITHIN THE BUILDING PRIOR TO COMMENCEMENT OF ALL DEMOLITION AND NEW WORK.

B. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE AND REPLACE EXISTING CEILINGS, UNLESS OTHERWISE NOTED ON THE ARCHITECTURAL DRAWINGS, FOR PERFORMING DEMOLITION OR NEW WORK WITHIN THE BUILDING. THE EXISTING CEILINGS SHALL BE REMOVED IN A MANNER TO AVOID DAMAGE TO THE CEILING SYSTEMS. STORAGE OF CEILING SYSTEM COMPONENTS FOR REINSTALLATION IS THE RESPONSIBILITY OF THE CONTRACTOR. THE STORAGE OF ALL MATERIAL SHALL BE IN AREAS OR LOCATIONS APPROVED BY THE OWNER. THE OWNER WILL NOT COMPENSATE FOR ANY DAMAGED OR LOST MATERIAL WHILE IN STORAGE. AFTER COMPLETION OF ALL DEMOLITION OR NEW WORK, THE CONTRACTOR SHALL REINSTALL THE CEILING SYSTEMS TO MATCH THE ORIGINAL INSTALLATION.

C. DEMOLITION DRAWINGS SHOW MAJOR EQUIPMENT, PIPING, AND DUCTWORK REMOVALS. THE INTENT IS NOT TO IDENTIFY ALL MISCELLANEOUS PIPING, PIPING ACCESSORIES, DUCTWORK, DUCTWORK ACCESSORIES, SUPPORTS, CONTROLS, CONTROL ACCESSORIES, CONTROL WIRING, CONDUIT, AND PNEUMATIC CONTROL TUBING TO BE DISCONNECTED AND REMOVED, BUT IS THE REQUIREMENT UNDER THIS CONTRACT. NO EQUIPMENT, PIPING, OR DUCTWORK SHALL BE ABANDONED IN PLACE, UNLESS OTHERWISE NOTED ON THE DRAWINGS.

D. ALL EQUIPMENT INDICATED TO BE TURNED OVER TO THE OWNER SHALL BE DISCONNECTED AND REMOVED FROM THE EXISTING SYSTEMS AND DELIVERED (INCLUDING LOADING AND UNLOADING) TO A STORAGE AREA WITHIN THE BUILDING AS SELECTED BY THE OWNER. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR ANY EQUIPMENT DAMAGED DURING REMOVAL AND DELIVERY. ANY DAMAGE TO EQUIPMENT PRIOR TO DISCONNECTING SHOULD BE REPORTED TO THE OWNER'S REPRESENTATIVE. IF NOT REPORTED, THE CONTRACTOR TAKES FULL RESPONSIBILITY FOR REPAIRS TO THE EQUIPMENT.

E. BEFORE DISCONNECTING, REMOVING, OR SERVICING ANY AIR CONDITIONING EQUIPMENT OR SYSTEMS CONTAINING REFRIGERANTS, THE EQUIPMENT OR SYSTEMS SHALL BE EVACUATED OF ALL REFRIGERANT PER THE LATEST ADOPTED RULES AND REGULATIONS BY THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA). THE CONTRACTOR OR TECHNICIAN PERFORMING THE WORK SHALL BE CERTIFIED BY AN EPA APPROVED CERTIFYING AGENCY OR ORGANIZATION.

F. ALL DUCTWORK, PIPING, AND CONDUIT PENETRATIONS THROUGH RATED WALLS OR FLOORS SHALL BE PROVIDED WITH FIRE/SMOKE STOPPINGS PER SPECIFICATION. REFER TO CODE ANALYSIS DRAWING FOR ALL RATED WALL LOCATIONS. ALL FLOORS SHALL BE CONSIDERED RATED.

G. UNLESS SHOWN ON THE ARCHITECTURAL DRAWINGS, IT IS THE RESPONSIBILITY OF THIS CONTRACT TO PATCH AND FINISH ALL EXISTING DUCTWORK OR PIPE PENETRATIONS THROUGH FLOORS, ROOFS, INTERIOR WALLS, AND EXTERIOR WALLS AFTER DEMOLITION WORK. IN ADDITION, ALL NEW PENETRATIONS SHALL BE PROVIDED FOR INSTALLATION OF MECHANICAL SYSTEMS INCLUDING, BUT NOT LIMITED TO, EQUIPMENT, CURBING, DUCTWORK, PIPING, CONTROLS, ETC. PATCHING AND FINISHING SHALL MATCH EXISTING CONSTRUCTION INCLUDING FIRE RATINGS. PROVIDE LINTELS PER LINTEL SCHEDULE.

H. IT IS NOT THE INTENT OF THE DRAWINGS TO SHOW ALL AIR VENTS AND DRAINS IN THE PIPING SYSTEMS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AIR VENTS AT ALL SYSTEM HIGH POINTS AND AT AREAS WITHIN THE PIPING SYSTEMS THAT COULD ACCUMULATE OR TRAP AIR WHICH WOULD PREVENT PROPER VENTING OR OPERATION OF THE SYSTEMS. DRAINS SHALL BE PROVIDED AT ALL LOW POINTS WITHIN THE PIPING SYSTEM TO FACILITATE COMPLETE DRAINING OF THE SYSTEM .

I. PROVIDE THERMAL EXPANSION COMPENSATORS AND THERMAL EXPANSION LOOPS IN PIPING SYSTEM PER INDUSTRY STANDARDS.

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NY 10901

DATE	DRAWN	CHECKED
3/9/2021	BKM	DH

SCALE AS SHOWN

SHEET TITLE
MECHANICAL SYMBOLS LIST

PROJECT NUMBER
15068.00

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Date last accessed: 3/4/2021 3:48 PM
Plotted By: Brendon Mazza
Date last plotted: 3/8/2021 9:58 AM

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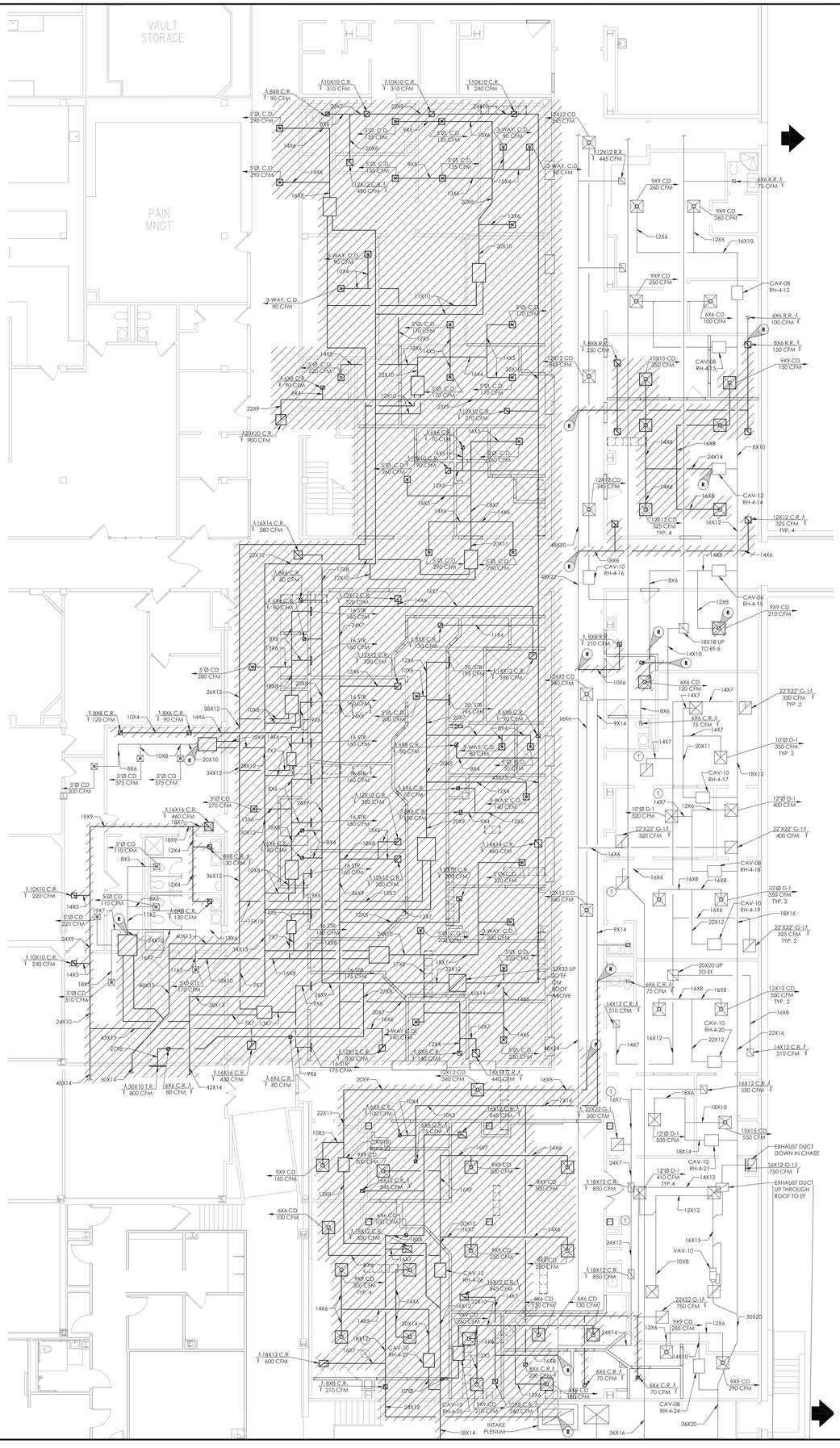
Date last plotted: 3/8/2021 10:07 AM Date last accessed: 3/5/2021 2:56 PM

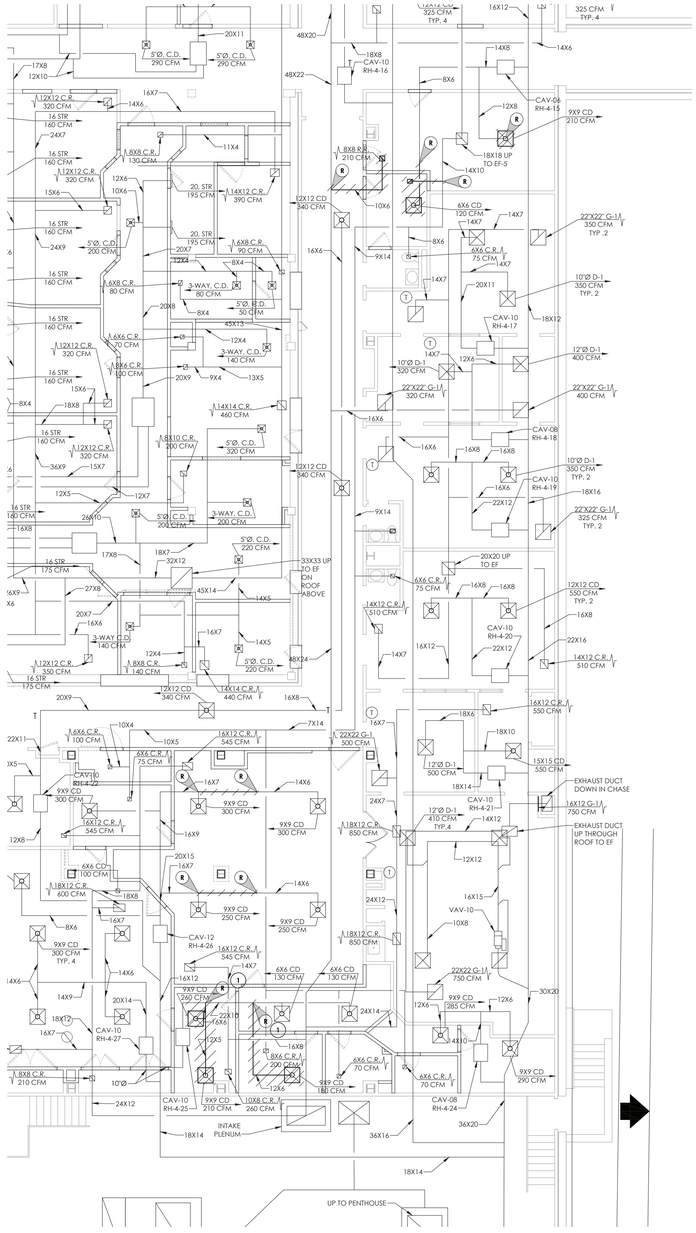

VAULT STORAGE
PAIN MNGT
3-WAY C.D. 90 CFM
5Ø C.D. 290 CFM
5Ø C.D. 135 CFM
5Ø C.D. 185 CFM
5Ø C.D. 220 CFM
5Ø C.D. 310 CFM
5Ø C.D. 200 CFM
5Ø C.D. 375 CFM
5Ø C.D. 270 CFM
5Ø C.D. 110 CFM
5Ø C.D. 280 CFM
10X10 C.R. 310 CFM
10X10 C.R. 240 CFM
8X8 C.R. 90 CFM
12X12 C.R. 445 CFM
12X12 C.R. 495 CFM
16X16 C.R. 580 CFM
20X20 C.R. 900 CFM
18X18 C.R. 970 CFM
30X10 T.R. 800 CFM
6X6 C.R. 80 CFM
8X6 C.R. 90 CFM
8X8 C.R. 120 CFM
8X8 C.R. 130 CFM
8X8 C.R. 250 CFM
8X8 C.R. 210 CFM
6X6 C.R. 75 CFM
6X6 C.R. 70 CFM
6X6 C.R. 100 CFM
6X6 C.R. 120 CFM
12X12 C.R. 325 CFM TYP. 4
12X12 C.R. 550 CFM
12X12 C.R. 510 CFM
12X12 C.R. 325 CFM TYP. 4
18X18 C.R. 850 CFM
18X12 C.R. 600 CFM
18X12 C.R. 850 CFM
16X12 C.R. 550 CFM
16X12 C.R. 845 CFM
16X12 C.R. 650 CFM
16X12 C.R. 350 CFM
16X12 C.R. 540 CFM
16X12 C.R. 590 CFM
16X12 C.R. 320 CFM
16X12 C.R. 460 CFM
16X12 C.R. 350 CFM
16X12 C.R. 450 CFM
16X12 C.R. 350 CFM
16X12 C.R. 350 CFM
16X12 C.R. 540 CFM
16X12 C.R. 440 CFM
16X12 C.R. 175 CFM
16X12 C.R. 175 CFM
16X12 C.R. 180 CFM
16X12 C.R. 160 CFM
16X12 C.R. 180 CFM
16X12 C.R. 160 CFM
16X12 C.R. 175

GENERAL NOTES:

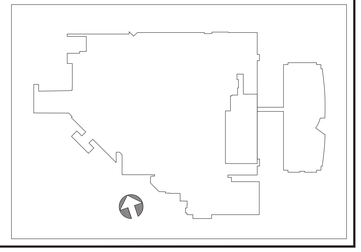
1. **FIELD VERIFY ALL DUCT SIZES AND LOCATIONS PRIOR TO DEMOLITION.**

KEY NOTES:

(1) **CAP DUCT MAIN WHERE DUCT BRANCHES HAVE BEEN REMOVED.**



1 H101.1 **MECHANICAL DEMOLITION PLAN**
SCALE: 1/8" = 1'-0"



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DATE	DRAWN	CHECKED
3/9/2021	BKM	LB

SCALE: AS SHOWN

SHEET TITLE
MECHANICAL MAKE READY PHASE DEMOLITION PLAN

PROJECT NUMBER
15068.00

H
101.1
DRAWING NUMBER

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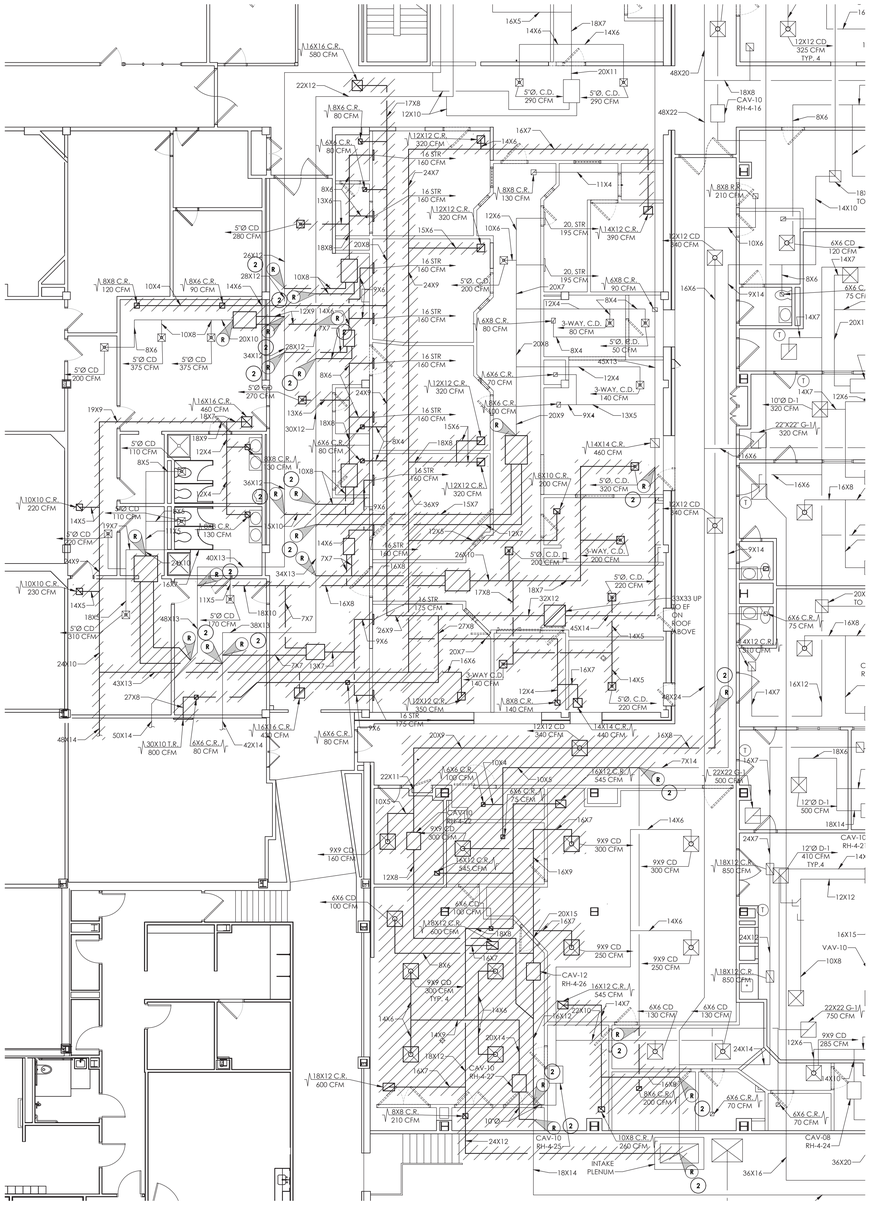
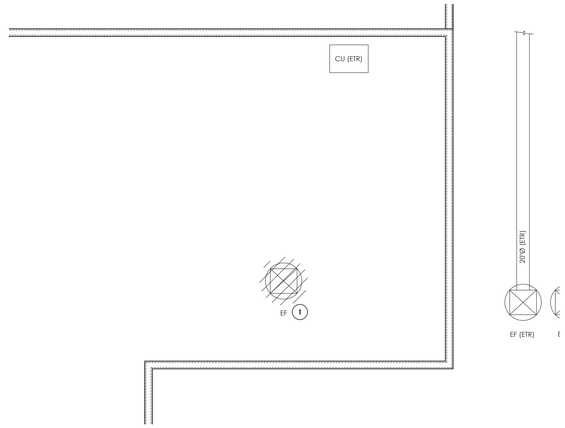
Date last plotted: 3/8/2021 9:59 AM



1 H101.2 **MECHANICAL DEMOLITION PLAN**
SCALE: 1/8" = 1'-0"



2 H101.2 **MECHANICAL ROOF DEMOLITION PLAN**
SCALE: 1/4" = 1'-0"

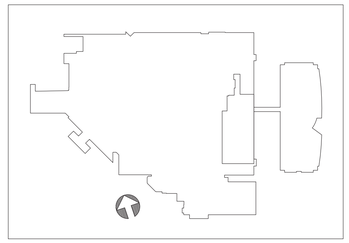
GENERAL NOTES:

1. FIELD VERIFY ALL DUCT SIZES AND LOCATIONS PRIOR TO DEMOLITION.

KEY NOTES:

(1) DEMOLISH EXHAUST FAN AND CURB. PATCH AND REPAIR ROOF OPENING. PROVIDE ALL REQUIRED ROOFING WORK.

(2) CAP DUCT MAIN WHERE DUCT BRANCHES ARE TO BE REMOVED.



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3/9/2021	BKM	LB
SCALE	AS SHOWN	

SHEET TITLE
PHASE 1 MECHANICAL DEMOLITION PLANS

PROJECT NUMBER
15068.00

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101.2
DRAWING NUMBER

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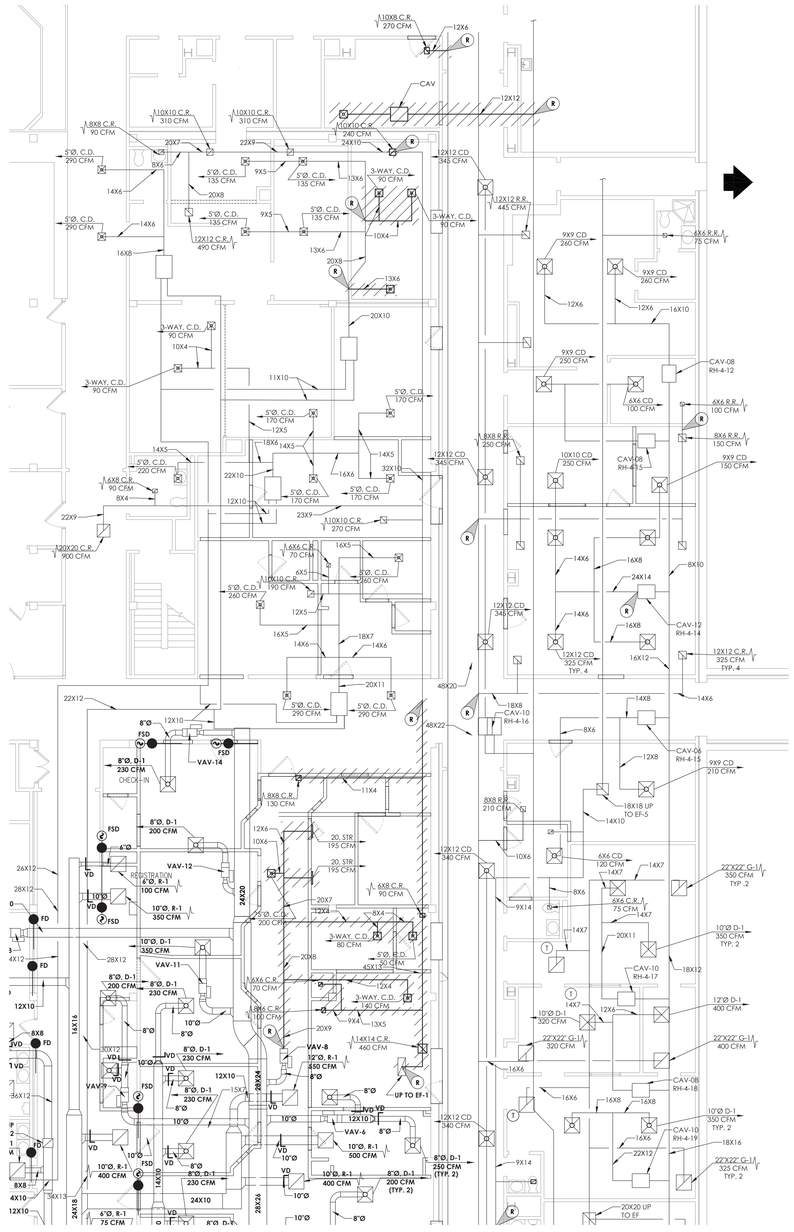
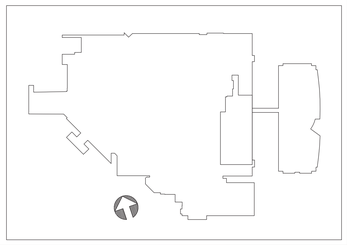
GENERAL NOTES:

1. **FIELD VERIFY ALL DUCT SIZES AND LOCATIONS PRIOR TO DEMOLITION.**



1 H101.3 **MECHANICAL DEMOLITION PLAN**

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



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SUFFERN
NY 10901

DATE	DRAWN	CHECKED
3/9/2021	BKM	LB

SCALE: AS SHOWN

SHEET TITLE: PHASE 2 MECHANICAL DEMOLITION PLAN

PROJECT NUMBER: 15068.00

H
101.3
DRAWING NUMBER

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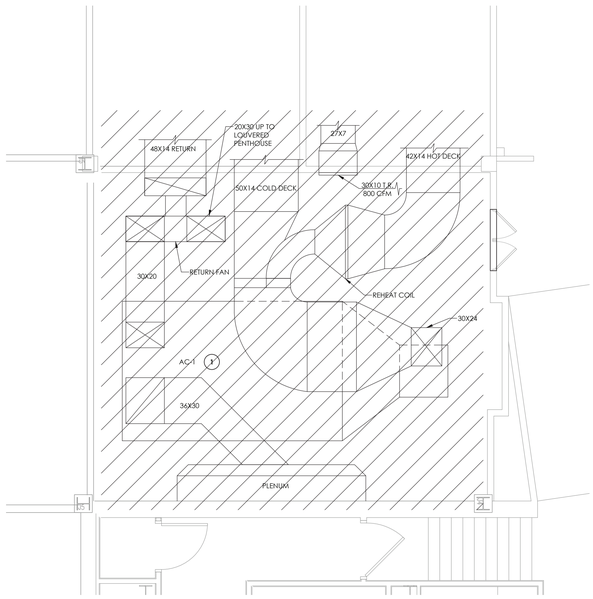
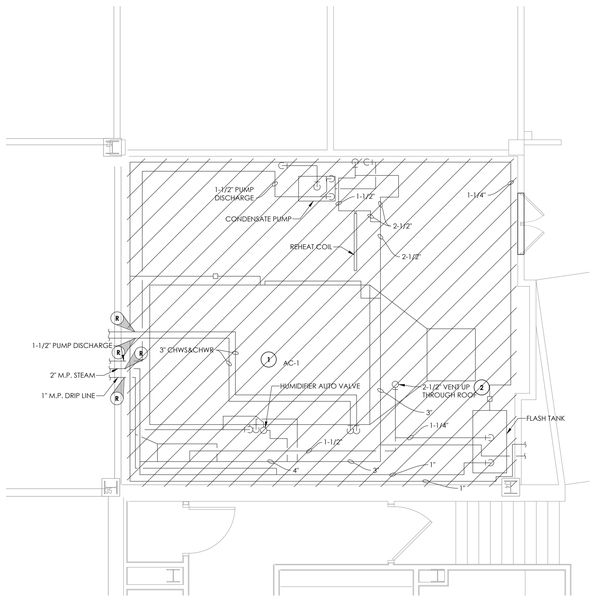
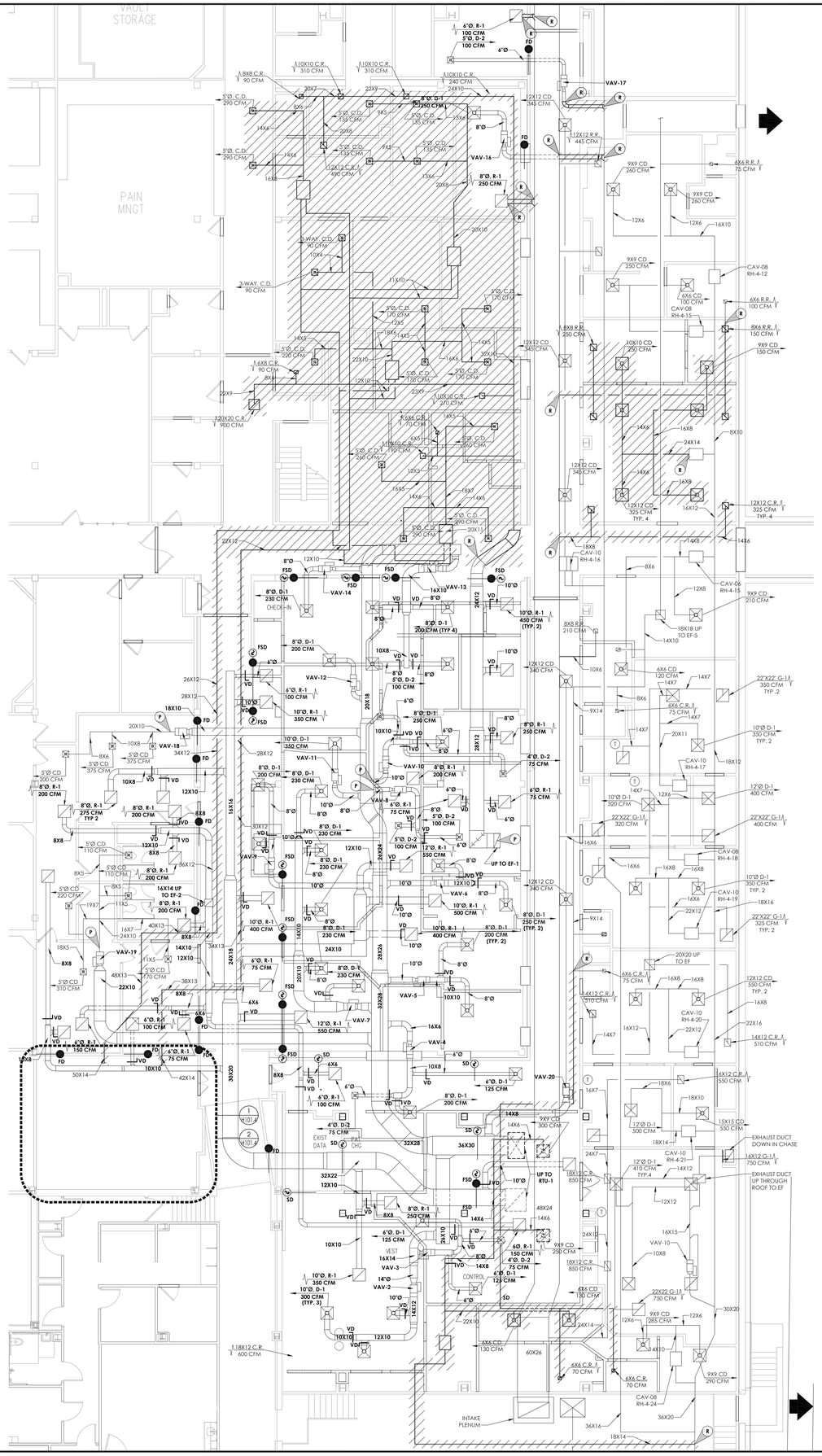
Drawing Name: S:\Projects\Philips Health\GSH New CT Room\D Design\06 CAD\AutoCAD\MECH\H1\H101.3.dwg Date last accessed: 3/5/2021 2:56 PM Date last plotted: 3/8/2021 10:05 AM Plotted By: Brendon Mazza



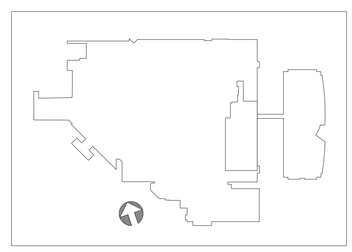
1 H101.4 **MECHANICAL ROOM DUCT DEMOLITION PLAN**
SCALE: 1/4" = 1'-0"



2 H101.4 **MECHANICAL ROOM PIPING DEMOLITION PLAN**
SCALE: 1/4" = 1'-0"



3 H101.4 **MECHANICAL DEMOLITION PLAN**
SCALE: 1/8" = 1'-0"



GENERAL NOTES:

1. FIELD VERIFY ALL DUCT SIZES AND LOCATIONS PRIOR TO DEMOLITION.

KEY NOTES:

1. REMOVE AC-1 IN ITS ENTIRETY; INCLUDING SUPPORTS, HANGERS, HOUSEKEEPING PADS, CONTROLS, AND ACCESSORIES. DISCONNECT AND CAP ALL WORK NOT REQUIRED FOR RE-USE AS CLOSE TO MAIN BRANCHES AS POSSIBLE. CLEAR ROOM TO THE GREATEST EXTENT POSSIBLE. PATCH AND REPAIR FLOOR AS REQUIRED AFTER EQUIPMENT REMOVAL IS COMPLETE.
2. DEMOLISH VENT UP THROUGH ROOF. PATCH AND REPAIR ROOF OPENING. PROVIDE ALL REQUIRED ROOFING WORK.

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3/9/2021	BKM	LB

SCALE: AS SHOWN

SHEET TITLE
PHASE 3 MECHANICAL DEMOLITION PLANS

PROJECT NUMBER
15068.00

H
101.4
DRAWING NUMBER

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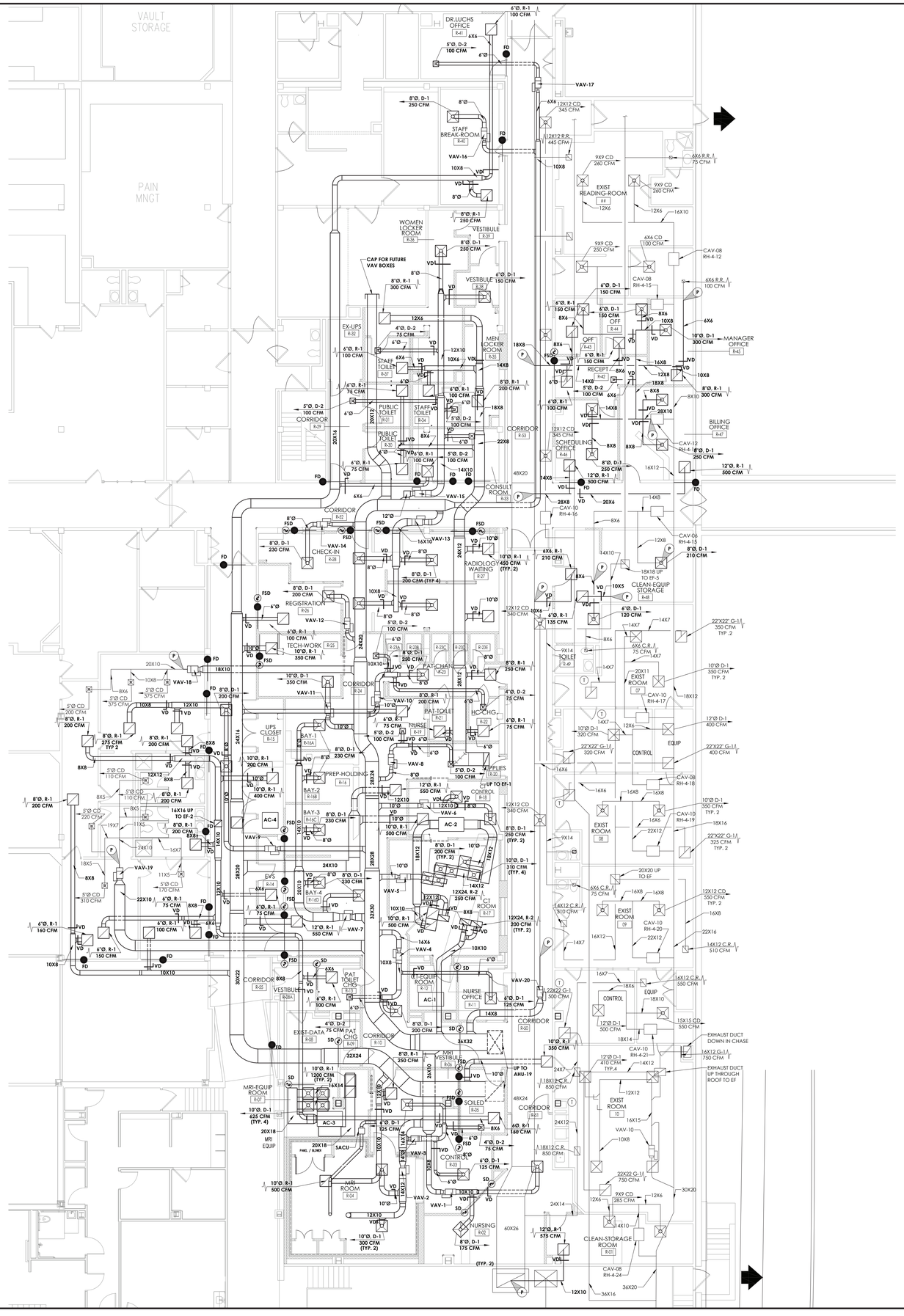
Drawing Name: S:\Projects\Philips Health\GSH New CT Room\D Design\06 CAD\AutoCAD\MECH\H\H101.4.dwg Date last accessed: 3/5/2021 2:56 PM Date last plotted: 3/8/2021 10:06 AM Plotted By: Brendon Mazza

PREP. AREA BAY 1 R-16A, BAY 2 R-16B, BAY 3 R-16C, BAY 4 R-16D AND PREP/RECOVERY R-02 ARE BEING UPDATED TO INCLUDE PHILIPS AMBIENT LIGHTING PACKAGE; A BIDDING ADDENDUM WILL BE ISSUED.


VAULT STORAGE
PAIN MNGT
DR.LUCHS OFFICE R-41
STAFF BREAK-ROOM R-42
EXIST READING-ROOM ##
WOMEN LOCKER ROOM R-36
VESTIBULE R-38
MEN LOCKER ROOM R-35
EX-UPS R-32
STAFF TOILET R-37
PUBLIC TOILET LR-31
PUBLIC TOILET R-30
STAFF TOILET R-34
CORRIDOR R-29
CORRIDOR R-33
CONSULT ROOM R-33
CORRIDOR R-52
CHECK-IN R-28
REGISTRATION R-26
TECH-WORK R-25
RADIOLOGY WAITING R-27
FAT-CHAN R-22
PAT-TOILET R-21
NURSE R-20
UPS CLOSET R-15
BAY-1 R-16A
PREP-HOLDING R-16
BAY-2 R-16B
BAY-3 R-16C
BAY-4 R-16D
EVS R-14
CT ROOM R-17
CT-EQUIP ROOM R-12
NURSE OFFICE R-11
CORRIDOR R-50
CORRIDOR R-55
VESTIBULE R-38A
PAT TOILET CHG R-13
EXIST-DATA R-08
PAT CHG R-09
CORRIDOR R-10
MRI VESTIBULE R-06
MRI-EQUIP ROOM R-07
MRI EQUIP
MRI ROOM R-04
SOILED R-05
CORRIDOR R-61
CONTROL R-03
NURSING R-02
SCHEDULING OFFICE R-46
RECEPT R-42
OFF R-43
OFF R-44
MANAGER OFFICE R-45
BILLING OFFICE R-47
CLEAN-EQUIP STORAGE R-48
TOILET R-49
EXIST ROOM 08
EXIST ROOM 09
EXIST ROOM 10
EXIST ROOM 12
EXIST ROOM 20
CLEAN-STORAGE ROOM R-01
CONTROL
EQUIP
AC-1
AC-2
AC-3
AC-4
SACU
CAP FOR FUTURE VAV BOXES
VAV-1
VAV-2
VAV-3
VAV-4
VAV-5
VAV-6
VAV-7
VAV-8
VAV-9
VAV-10
VAV-11
VAV-12
VAV-13
VAV-14
VAV-15
VAV-16
VAV-17
VAV-18
VAV-19
VAV-20
UP TO EF-1
UP TO AHU-19
20X10 UP TO EF-S
18X18 UP TO EF-S
16X14 UP TO EF-2
20X20 UP TO EF
EXHAUST DUCT DOWN IN CHASE
EXHAUST DUCT UP THROUGH ROOF TO EF
CAV-04 RH-4-15
CAV-08 RH-4-12
CAV-08 RH-4-15
CAV-08 RH-4-18
CAV-10 RH-4-16
CAV-10 RH-4-17
CAV-10 RH-4-19
CAV-10 RH-4-20
CAV-10 RH-4-21
CAV-12 RH-4-14
CAV-08 RH-4-24
6"Ø, R-1 100 CFM
6"Ø, D-2 75 CFM
6"Ø, D-1 120 CFM
6"Ø, D-1 150 CFM
6"Ø, R-1 150 CFM
6"Ø, R-1 135 CFM
6"Ø, R-1 75 CFM
6"Ø, R-1 160 CFM
6"Ø, R-1 150 CFM
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8"Ø, R-1 250 CFM
8"Ø, D-1 230 CFM
8"Ø, D-1 200 CFM (TYP 4)
8"Ø, R-1 275 CFM TYP 2
8"Ø, R-1 300 CFM
8"Ø, R-1 200 CFM
8"Ø, D-1 200 CFM
8"Ø, D-1 230 CFM
10"Ø, D-1 350 CFM
10"Ø, R-1 350 CFM
10"Ø, R-1 400 CFM
10"Ø, R-1 450 CFM (TYP 2)
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10"Ø, D-1 300 CFM (TYP. 2)
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12"Ø, R-1 575 CFM
12"Ø, R-1 300 CFM
12"Ø, R-1 500 CFM
4"Ø, D-2 75 CFM
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8"Ø, D-1 210 CFM
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8"Ø, R-1 200 CFM
8"Ø, R-1 250 CFM
8"Ø, R-1 230 CFM
8"Ø, D-1 175 CFM
10"Ø, D-1 350 CFM
10"Ø, D-1 300 CFM
10"Ø, D-1 350 CFM TYP. 2
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12"Ø, R-1 300 CFM
4"Ø, D-2 75 CFM
4"Ø, D-2 75 CFM
5"Ø, D-2 100 CFM
5"Ø, D-2 100 CFM
5"Ø, D-2 100 CFM
5"Ø, D-2 100 CFM
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6"Ø, R-1 100 CFM
6"Ø, R-1 100 CFM
6"Ø, R-1 75 CFM
6"Ø, R-1 100 CFM
6"Ø, R-1 150 CFM
6"Ø, R-1 135 CFM
6"Ø, D-1 120 CFM
6"Ø, D-1 150 CFM
6"Ø, D-1 125 CFM
6"Ø, D-2 75 CFM
6"Ø, R-1 160 CFM
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8"Ø, D-1 200 CFM
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8"Ø, D-1 210 CFM
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8"Ø, R-1 200 CFM
8"Ø, R-1 250 CFM
8"Ø, R-1 230 CFM
8"Ø, D-1 175 CFM
10"Ø, D-1 350 CFM
10"Ø, D-1 300 CFM
10"Ø, D-1 350 CFM TYP. 2
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12"Ø, D-1 400 CFM
12"Ø, D-1 500 CFM
12"Ø, R-1 500 CFM
12"Ø, R-1 550 CFM
12"Ø, R-1 500 CFM
12"Ø, R-1 575 CFM
12"Ø, R-1 300 CFM
4"Ø, D-2 75 CFM
5"Ø, D-2 100 CFM
5"Ø, D-2 75 CFM
5"Ø, D-2 100 CFM
5"Ø, D-2 100 CFM
6X6 12X12 CD 345 CFM
12X12 R.R. 445 CFM
9X9 CD 260 CFM
6X6 R.R. 75 CFM
9X9 CD 260 CFM
6X6 CD 100 CFM
9X9 CD 250 CFM
6X6 R.R. 100 CFM
12X12 CD 345 CFM
12X12 CD 340 CFM
12X12 CD 340 CFM
6X6 R.R. 75 CFM
6X6 C.R. 75 CFM
6X6 C.R. 75 CFM
14X12 C.R. 510 CFM
14X12 C.R. 510 CFM
16X12 C.R. 550 CFM
18X12 C.R. 850 CFM
18X12 C.R. 850 CFM
22X22 G-1 350 CFM TYP. 2
22X22 G-1 500 CFM
22X22 G-1 750 CFM
22X22 G-1 320 CFM
22X22 G-1 400 CFM
22X22 G-1 325 CFM TYP. 2
9X9 CD 285 CFM
12X12 CD 550 CFM TYP. 2
15X15 CD 550 CFM
16X12 G-1 750 CFM
12X6
16X10
12X8
14X7
16X8
18X8
28X10
16X12
14X8
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8X6
10X8
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22X10
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36X4
40X4
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60X4
72X4
84X4
96X4
108X4
120X4
132X4
144X4
156X4
168X4
180X4
192X4
204X4
216X4
228X4
240X4
252X4
264X4
276X4
288X4
300X4
312X4
324X4
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348X4
360X4
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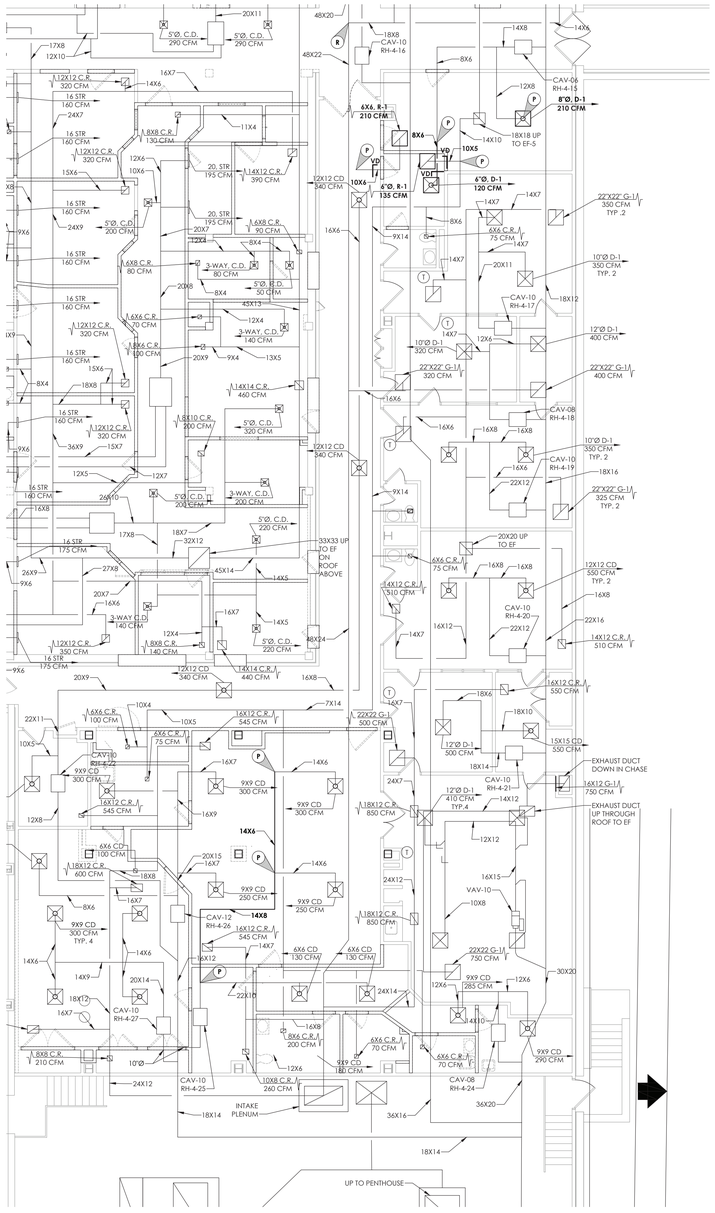
384X4
396X4
408X4
420X4
432X4
444X4
456X4
468X4
480X4
492X4
504X4
516X4

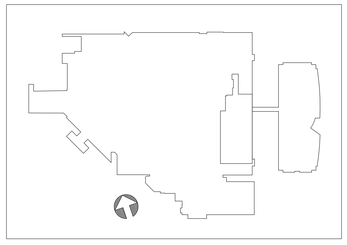
PREP. AREA BAY 1 R-16A, BAY 2 R-16B, BAY 3 R-16C, BAY 4 R-16D AND PREP/RECOVERY R-02 ARE BEING UPDATED TO INCLUDE PHILIPS AMBIENT LIGHTING PACKAGE; A BIDDING ADDENDUM WILL BE ISSUED.

GENERAL NOTES:

1. PROVIDE TESTING, ADJUSTING, AND BALANCING SERVICES FOR EACH PROJECT PHASE AND SUBMIT TO ENGINEER FOR REVIEW AND APPROVAL. PROVIDE A FINAL TAB REPORT AT THE COMPLETION OF ALL PROJECT WORK THAT INCLUDES PHASES. THE FINAL TAB SERVICES SHALL INCLUDE RE-VERIFYING 10% OF THE WORK FOR EACH PHASE TO CONFIRM THAT SUBSEQUENT WORK HAS NOT IMPACTED THE PREVIOUS TAB INFORMATION. SUBMIT THE FINAL REPORT TO THE ENGINEERS FOR REVIEW AND APPROVAL.



1 H201.1 **MECHANICAL NEW WORK PLAN**
SCALE: 1/8" = 1'-0"



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3/9/2021	BKM	LB

SCALE: AS SHOWN

SHEET TITLE
MECHANICAL MAKE READY PHASE NEW WORK PLAN

PROJECT NUMBER
15068.00

H
201.1
DRAWING NUMBER

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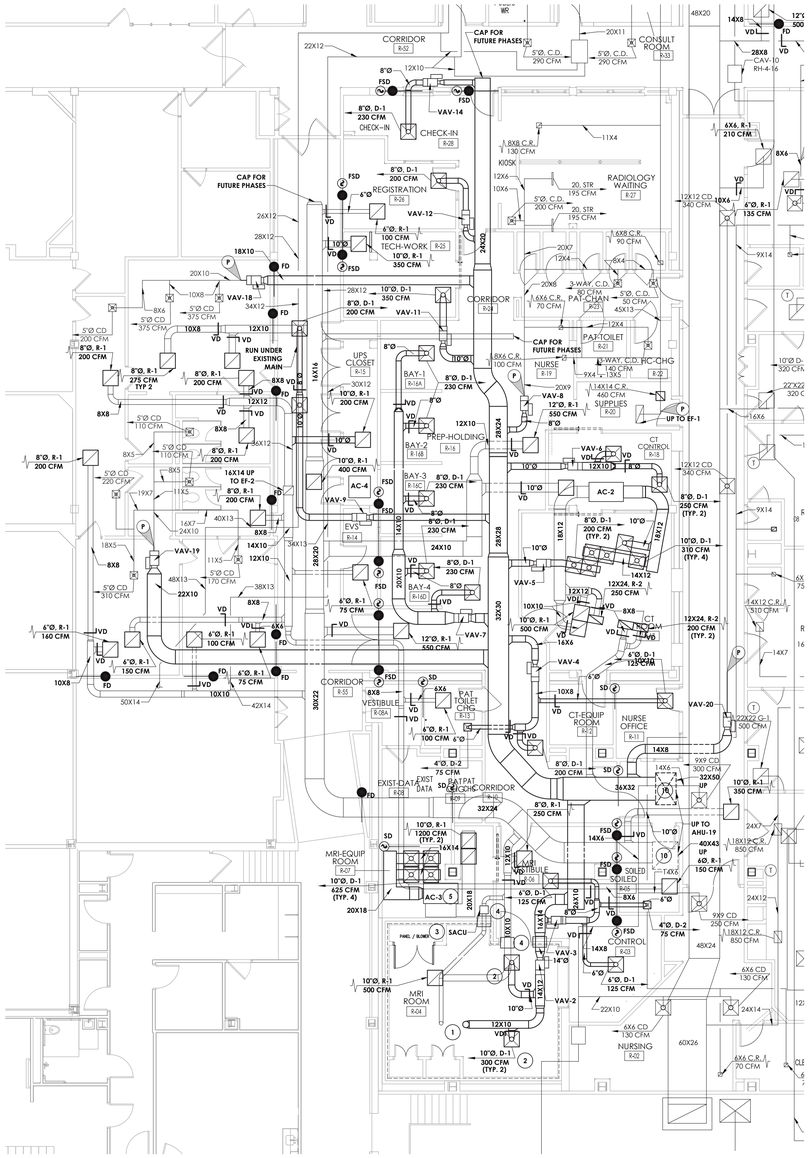
Drawing Name: S:\Projects\Philips Healthy\GSH New CT Room\D Design\06 CAD\AutoCAD\MECH\H201.1.dwg Date last accessed: 3/8/2021 9:47 AM Plotted By: Brendon Mazza Date last plotted: 3/8/2021 10:08 AM

PREP. AREA BAY 1 R-16A, BAY 2 R-16B, BAY 3 R-16C, BAY 4 R-16D AND PREP/RECOVERY R-02 ARE BEING UPDATED TO INCLUDE PHILIPS AMBIENT LIGHTING PACKAGE; A BIDDING ADDENDUM WILL BE ISSUED.



1 H201.2 **MECHANICAL NEW DUCTWORK PLAN**
SCALE: 1/8" = 1'-0"

2 H201.2 **MECHANICAL NEW PIPING PLAN**
SCALE: 1/8" = 1'-0"

3 H201.2 **MECHANICAL ROOF NEW WORK PLAN**
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. PROVIDE AND INSTALL ALL MRI RELATED EQUIPMENT ITEMS FURNISHED AND/OR INSTALLED IN THIS CONTRACT IN STRICT ACCORDANCE WITH INSTRUCTIONS AND RECOMMENDATIONS OF GE HEALTHCARE. MRI ROOM TO HAVE ALL NON-FERROUS METALS. VERIFY PRIOR TO INSTALLATION.
2. PROVIDE NEW DUCT AND PIPING ROOF OPENINGS AS REQUIRED FOR INSTALLATION OF NEW WORK. PROVIDE ALL ROOFING WORK.
3. INSTALL ALL ACCU'S ON EQUIPMENT RAILS. SEE H800 DRAWING FOR DETAIL.
4. PROVIDE TESTING, ADJUSTING, AND BALANCING SERVICES FOR EACH PROJECT PHASE AND SUBMIT TO ENGINEER FOR REVIEW AND APPROVAL. PROVIDE A FINAL TAB REPORT AT THE COMPLETION OF ALL PROJECT WORK THAT INCLUDES PHASES. THE FINAL TAB SERVICES SHALL INCLUDE RE-VERIFYING 10% OF THE WORK FOR EACH PHASE TO CONFIRM THAT SUBSEQUENT WORK HAS NOT IMPACTED THE PREVIOUS TAB INFORMATION. SUBMIT THE FINAL REPORT TO THE ENGINEERS FOR REVIEW AND APPROVAL.

KEY NOTES:

1. 6" DOWNTURNED OED ONTO MAGNET FLUSH WITH RF SHIELD. DUCT TO END 8'1" AFF. SEE PHILIPS SHEET SL FOR DETAILS.
2. DIFFUSERS AND DUCTWORK WITHIN MRI SPACE SHALL BE ALUMINUM IN CONSTRUCTION.
3. SYSTEM AIR COOLING UNIT AND ASSOCIATED VENTILATION HOSE PROVIDED BY PHILIPS.
4. RF FEED THROUGH PROVIDED BY RF CONTRACTOR INSTALLED ON ALL DUCT PENETRATIONS THROUGH RF SHIELD. COORDINATE WITH RF CONTRACTOR.
5. PROVIDE SPLIT SYSTEM AC UNIT AC-3 AND LOCATE ABOVE CEILING. SEE ROOF PLAN FOR LOCATION OF CONDENSING UNIT (ACCU-3). PROVIDE ALUMINUM SUPPLY AND RETURN AIR DUCTWORK, DIFFUSERS, AND GRILLES FOR AC-3. PROVIDE THERMOSTAT AND HUMIDITY CONTROLLER WITH REMOTE SENSORS MOUNTED IN R.A. DUCTWORK FOR AC-3 AS FURNISHED BY AC UNIT SUPPLIER. MOUNT THERMOSTAT AND HUMIDITY CONTROLLER 54" AFF. PROVIDE ALL CONTROLS AND CONTROL WIRING FOR AC-3, ACCU-3 PER MANUFACTURERS INSTRUCTIONS.
6. ROUTE CONDENSATE DRAIN TO NEAREST FLOOR DRAIN IN MECHANICAL ROOM.
7. SEE DRAWING H700 FOR PIPING CONTINUATION AND MECHANICAL ROOM WORK. MECHANICAL ROOM WORK TO BE INCLUDED IN PHASE 1.
8. PERFORM WATER FLOW TEST PRIOR TO CONNECTION TO EXISTING CHILLED WATER PIPING.
9. ROUTE H-1 CONDENSATE TO EXISTING CONDENSATE PUMP PIT.
10. PROVIDE NEW ROOF OPENINGS. FRAME AROUND OPENINGS WITH 3X3X3/8 ANGLE REINFORCEMENT.
11. PROVIDE CURBS AT DUCT PENETRATIONS THROUGH THE ROOF.
12. PROVIDE PIPE PORTAL FOR CHW AND HHW PIPING AT ROOF PENETRATION.
13. PROVIDE NEW AIR HANDLING UNIT. MOUNT AND SECURE TO STRUCTURAL SUPPORT FRAME. REFER TO STRUCTURAL DRAWINGS FOR DETAILS.

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SCALE	AS SHOWN	

SHEET TITLE
PHASE 1 MECHANICAL NEW WORK PLANS

PROJECT NUMBER
15068.00

H
201.2
DRAWING NUMBER

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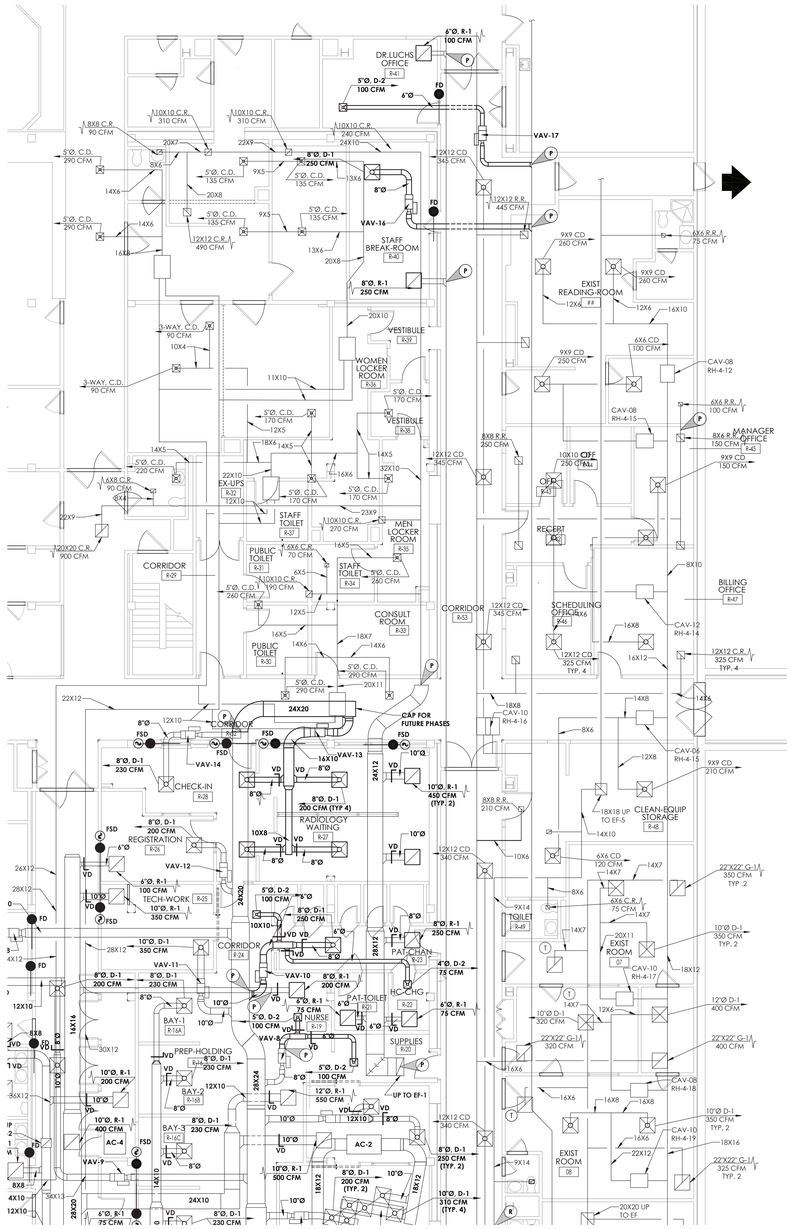
Plotted By: Brendon Mazza
Date last plotted: 3/8/2021 10:09 AM
Date last accessed: 3/8/2021 9:47 AM
Drawing Name: S:\Projects\Philips Health\GSH New CT Room\D Design\06 CAD\AutoCAD\MECH\H2V\H201.2.dwg

PREP. AREA BAY 1 R-16A, BAY 2 R-16B, BAY 3 R-16C, BAY 4 R-16D AND PREP/RECOVERY R-02 ARE BEING UPDATED TO INCLUDE PHILIPS AMBIENT LIGHTING PACKAGE; A BIDDING ADDENDUM WILL BE ISSUED.

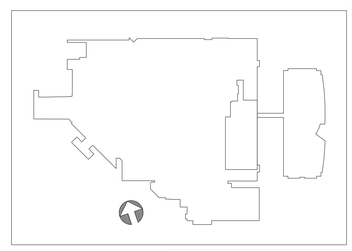
GENERAL NOTES:

1. **PROVIDE TESTING, ADJUSTING, AND BALANCING SERVICES FOR EACH PROJECT PHASE AND SUBMIT TO ENGINEER FOR REVIEW AND APPROVAL. PROVIDE A FINAL TAB REPORT AT THE COMPLETION OF ALL PROJECT WORK THAT INCLUDES PHASES. THE FINAL TAB SERVICES SHALL INCLUDE RE-VERIFYING 10% OF THE WORK FOR EACH PHASE TO CONFIRM THAT SUBSEQUENT WORK HAS NOT IMPACTED THE PREVIOUS TAB INFORMATION. SUBMIT THE FINAL REPORT TO THE ENGINEERS FOR REVIEW AND APPROVAL.**



1 H201.3 **MECHANICAL NEW DUCTWORK PLAN**
SCALE: 1/8" = 1'-0"

2 H201.3 **MECHANICAL NEW PIPING PLAN**
SCALE: 1/8" = 1'-0"



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SUFFERN
NY 10901

DATE	DRAWN	CHECKED
3/9/2021	BKM	LB

SCALE AS SHOWN

SHEET TITLE
PHASE 2 MECHANICAL NEW WORK PLANS

PROJECT NUMBER
15068.00

H
201.3
DRAWING NUMBER

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Drawing Name: S:\Projects\Philips Health\GSH New CT Room\D Design\06 CAD\AutoCAD\MECH\H2\H201.3.dwg Date last accessed: 3/8/2021 9:47 AM Date last plotted: 3/8/2021 10:10 AM Plotted By: Brendon Mazza

PREP. AREA BAY 1 R-16A, BAY 2 R-16B, BAY 3 R-16C, BAY 4 R-16D AND PREP/RECOVERY R-02 ARE BEING UPDATED TO INCLUDE PHILIPS AMBIENT LIGHTING PACKAGE; A BIDDING ADDENDUM WILL BE ISSUED.

GENERAL NOTES:

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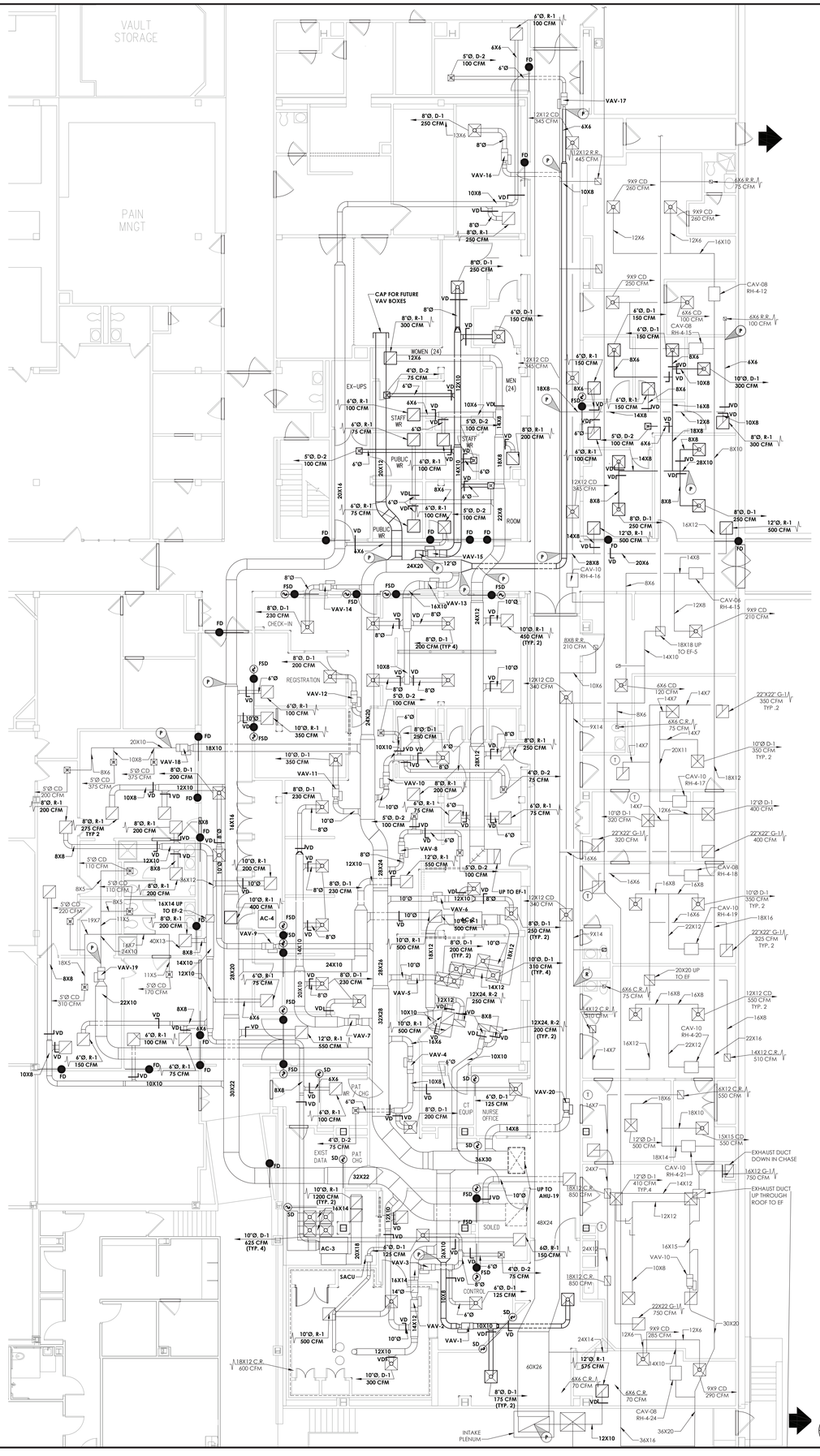
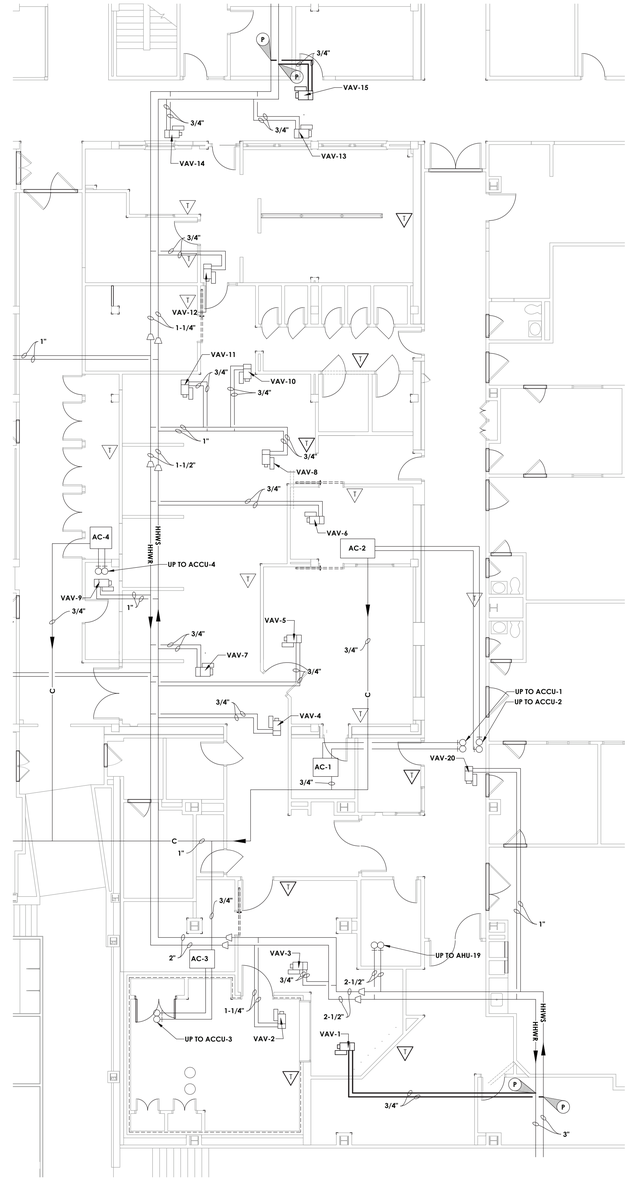


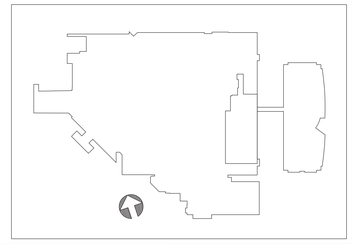
MECHANICAL DUCTWORK PLAN

1 H201.4 SCALE: 1/8" = 1'-0"



MECHANICAL PIPING PLAN

2 H201.4 SCALE: 1/8" = 1'-0"



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SCALE: AS SHOWN

SHEET TITLE
PHASE 3 MECHANICAL NEW WORK PLANS

PROJECT NUMBER
15068.00

H
201.4
DRAWING NUMBER

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Date last accessed: 3/8/2021 9:46 AM
Date last plotted: 3/8/2021 10:10 AM
Plotted By: Brendon Mazza

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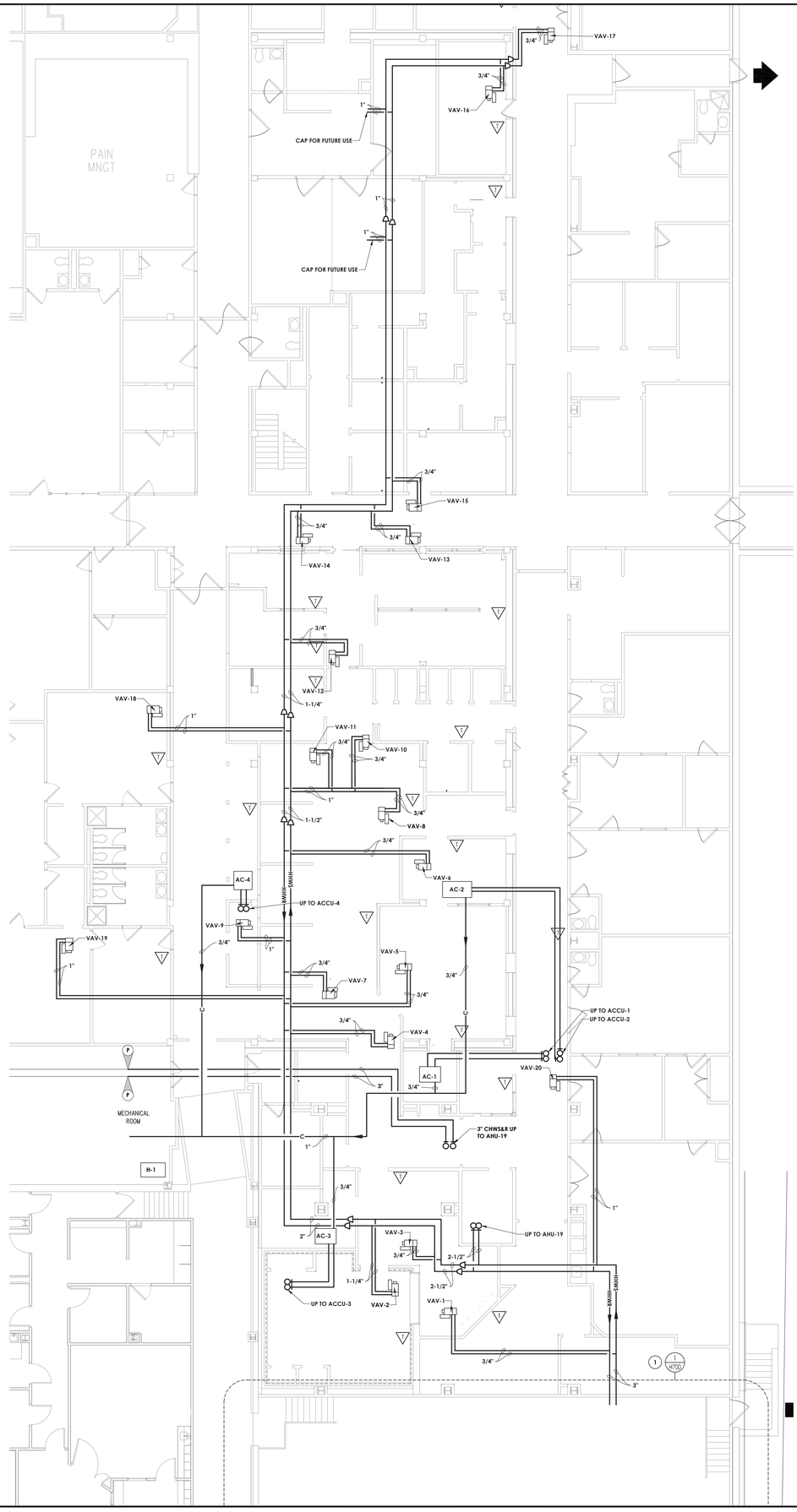


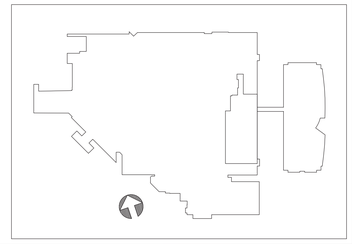
GENERAL NOTES:

1. REFER TO PHASED NEW WORK PLANS FOR SPECIFIC WORK SEQUENCING.

KEY NOTES:

(1) SEE H700 FOR CONTINUATION OF PIPING AND MECHANICAL ROOM WORK. MECHANICAL ROOM WORK TO BE INCLUDED IN PHASE 1 WORK.

1 H301 **PIPING OVERALL LAYOUT PLAN**
SCALE: 1/8" = 1'-0"



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SHEET TITLE
MECHANICAL
PIPING PLANS

PROJECT NUMBER
15068.00

H
301
DRAWING NUMBER

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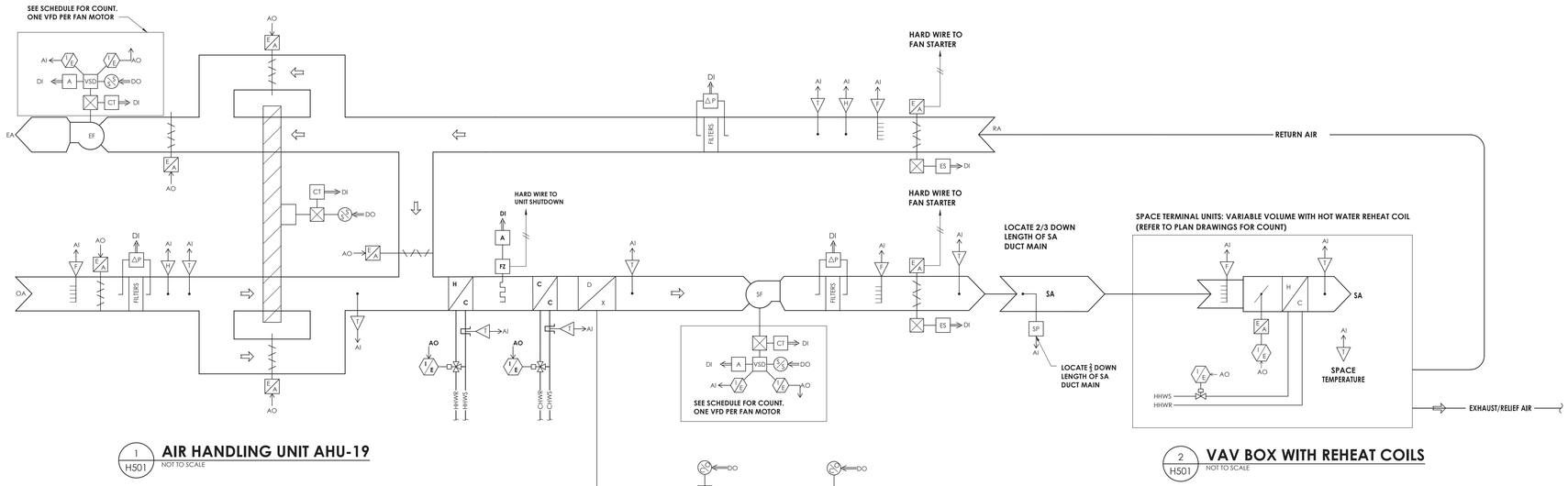
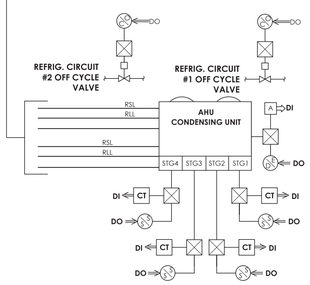
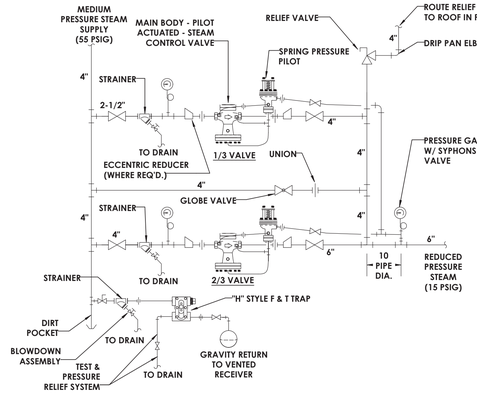
Drawing Name: S:\Projects\Philips Health\GSH New CT Room\D Design\Vol6 CAD\AutoCAD\MECH\H3\H301.dwg Date last accessed: 3/8/2021 9:47 AM Date last plotted: 3/8/2021 10:12 AM Plotted By: Brendon Mazza

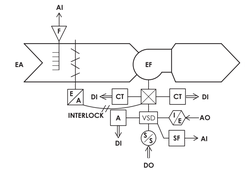


1 H501 **AIR HANDLING UNIT AHU-19**
NOT TO SCALE

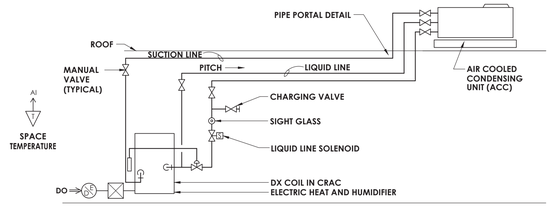




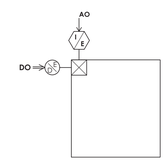
4 H500 **STEAM PRESSURE REDUCING STATION**
NOT TO SCALE



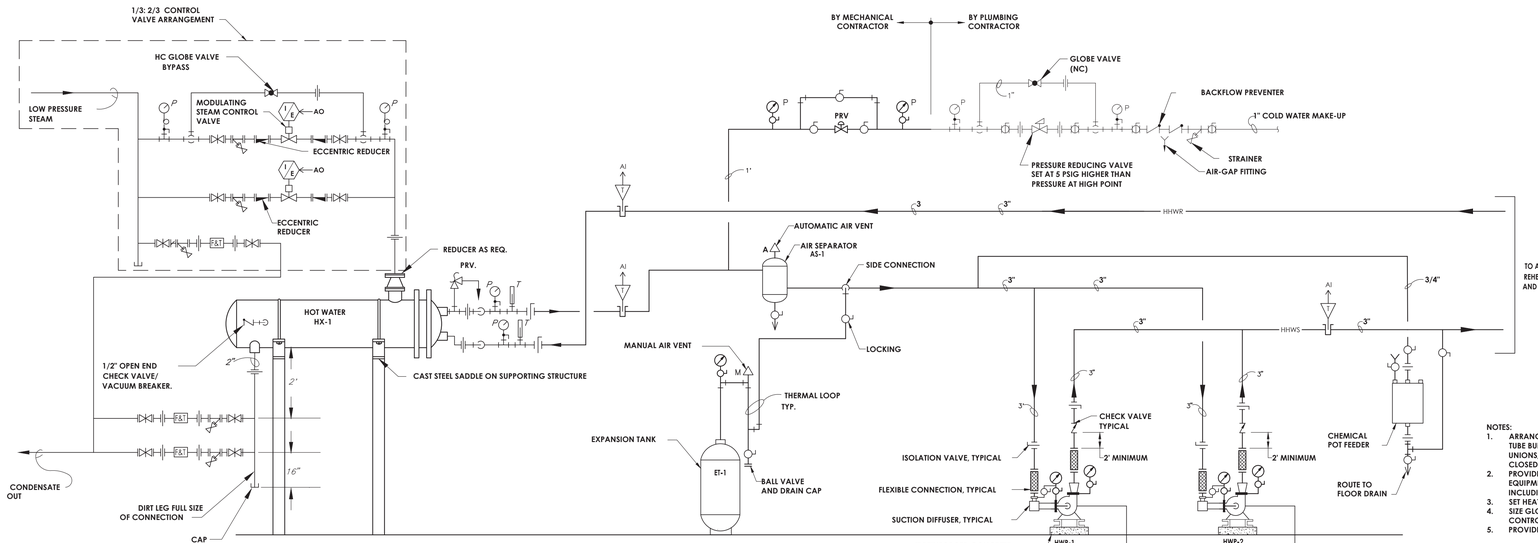
5 H500 **TYPICAL EXHAUST FAN**
NOT TO SCALE



6 H501 **COMPUTER ROOM AC UNIT**
NOT TO SCALE



7 H501 **HUMIDIFIER CONTROLS SCHEMATIC**
NOT TO SCALE



NOTES:
1. ARRANGE PIPING TO ALLOW REMOVAL OF TUBE BUNDLE WITHOUT REMOVING PIPING BEYOND UNIONS/FLANGES, WHEN ISOLATING VALVES ARE CLOSED.
2. PROVIDE STEEL FRAME WORK AND CONCRETE EQUIPMENT PAD TO SUPPORT ALL HEAT TRANSFER EQUIPMENT INCLUDING AIR SEPARATOR, PUMP AND ALL ASSOCIATED TRIM
3. SET HEAT EXCHANGER LEVEL
4. SIZE GLOBE VALVE BYPASS EQUIVALENT TO SIZE OF LARGEST CONTROL VALVE
5. PROVIDE UNIONS AT THREADED CONTROL VALVES

3 H501 **STEAM TO HOT WATER CONVERTOR HEAT EXHANGER SKID DETAIL AND PIPING SCHEMATIC**
NOT TO SCALE

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SHEET TITLE
MECHANICAL CONTROLS DIAGRAMS

PROJECT NUMBER 15068.00

H 501
DRAWING NUMBER

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Drawing Name: S:\Projects\Philips Health\GSH New CT Room\D Design\06 CAD\AutoCAD\MECH\H5\H500.dwg Date last accessed: 3/8/2021 10:19 AM Date last plotted: 3/8/2021 10:20 AM Plotted By: Brendon Mazza

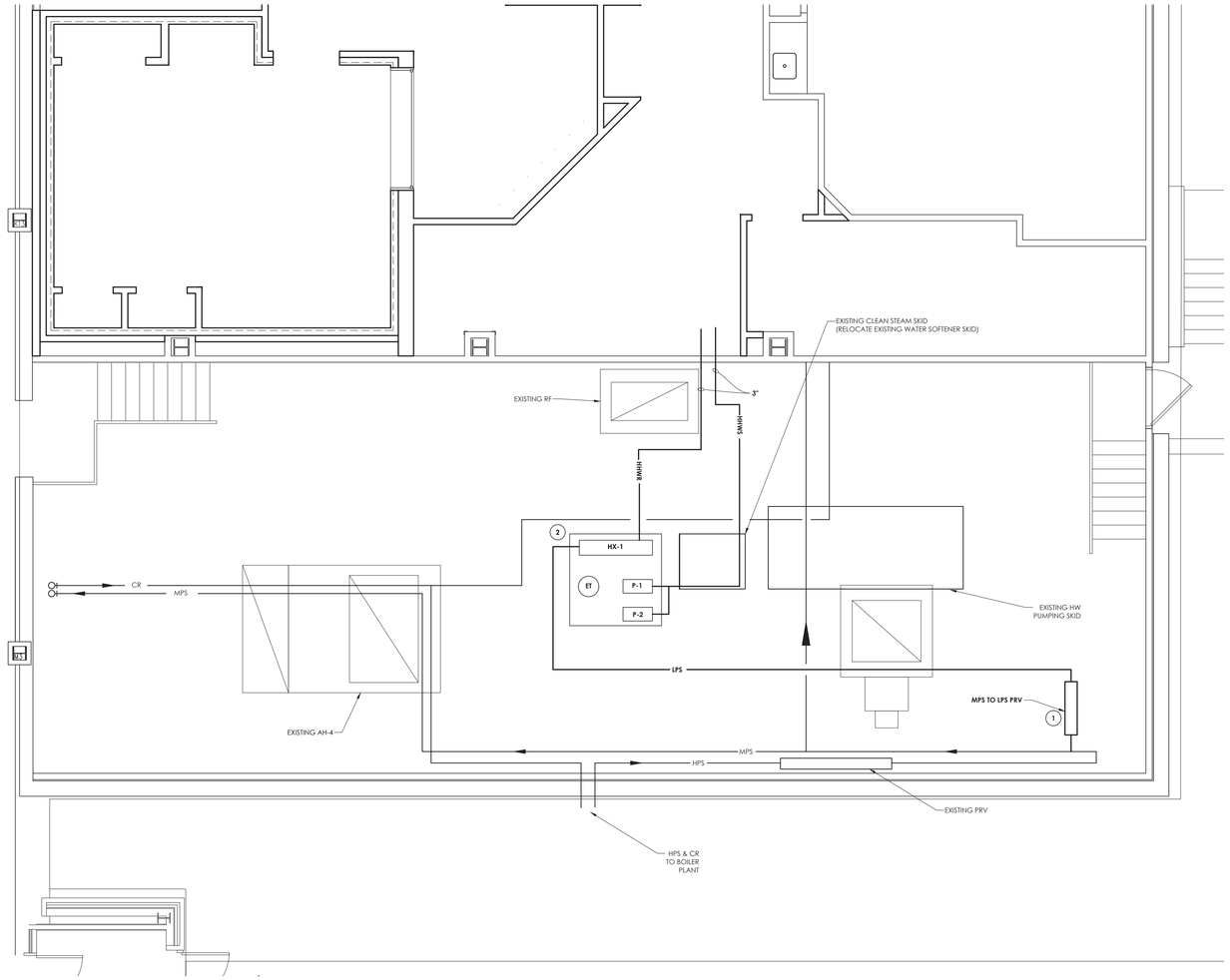
GENERAL NOTES:

1. ALL MECHANICAL ROOM WORK TO BE INCLUDED IN PHASE 1.
2. COORDINATE FINAL EQUIPMENT LOCATION WITH OWNER AND EXISTING CONDITIONS.

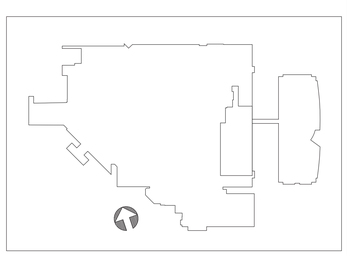
KEY NOTES:

(1) PROVIDE NEW 1/3: 2/3 MPS TO LPS PRV - 965 LBS/HR

(2) PROVIDE NEW HEATING HOT WATER HEAT EXCHANGER AND PUMPING SKID. SEE SCHEDULE FOR SIZING INFORMATION. COORDINATE FINAL LOCATION AND CONNECTION POINTS WITH OWNER AND EXISTING CONDITIONS.



2 H301 **ENLARGED MECHANICAL ROOM**
SCALE: 1/4" = 1'-0"



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SCALE: AS SHOWN

SHEET TITLE: ENLARGED MECHANICAL ROOM

PROJECT NUMBER: 15068.00

H
700
DRAWING NUMBER

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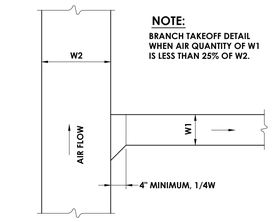
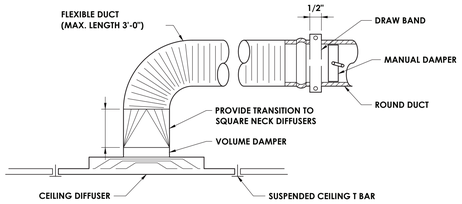
Drawing Name: S:\Projects\Philips Health\GSH New CT Room\D Design\06 CAD\AutoCAD\MECH\H7\H700.dwg Date last accessed: 3/8/2021 10:05 AM Date last plotted: 3/8/2021 10:13 AM Plotted By: Brendon Mazza

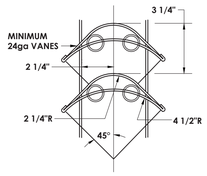


NOTE:
BRANCH TAKEOFF DETAIL WHEN AIR QUANTITY OF W1 IS LESS THAN 25% OF W2.

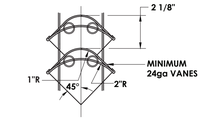
1 H800 BRANCH TAKE-OFF DETAIL
NOT TO SCALE



2 H800 DIFFUSER DETAIL
NOT TO SCALE

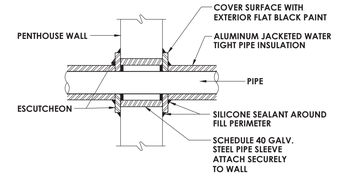


VANES FOR SQUARE THROAT ELBOWS OVER 20" WIDE

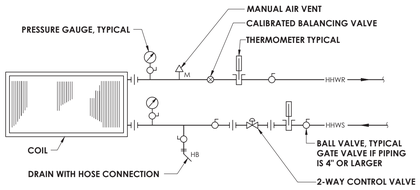


VANES FOR SQUARE THROAT ELBOWS THRU 20" WIDE

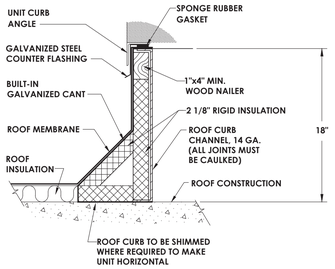
3 H800 TYPICAL TURNING VANE DETAIL
NOT TO SCALE



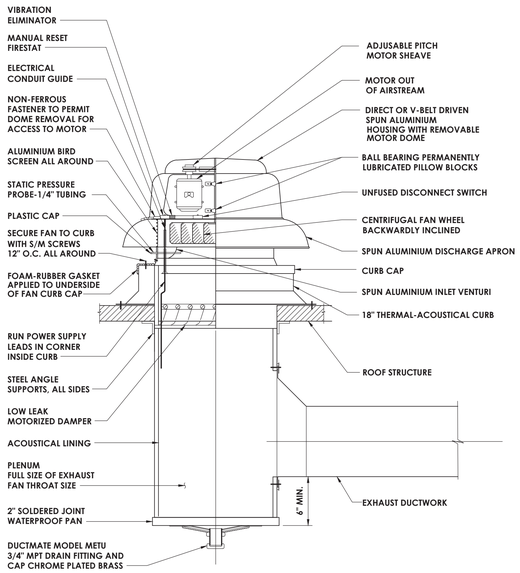
4 H800 PIPE THROUGH NON-RATED WALL
NOT TO SCALE



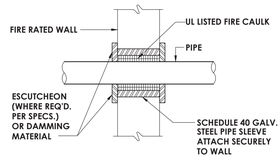
5 H800 VAV AND FAN COIL PIPING SCHEMATIC
NOT TO SCALE



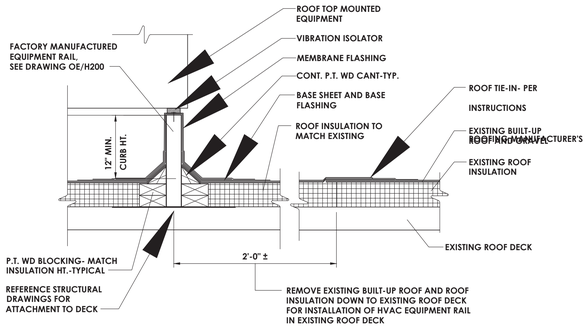
6 H800 ROOF CURB DETAIL
NOT TO SCALE



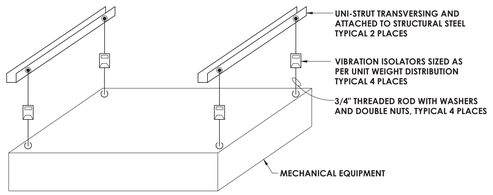
10 H800 EXHAUST FAN DETAIL
NOT TO SCALE



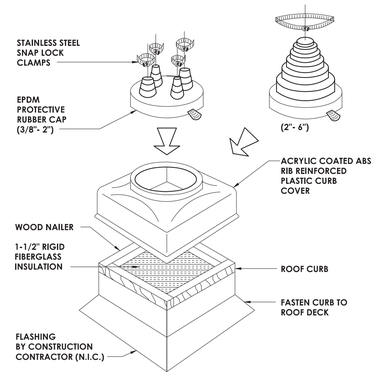
7 H800 PIPE THROUGH RATED WALL
NOT TO SCALE



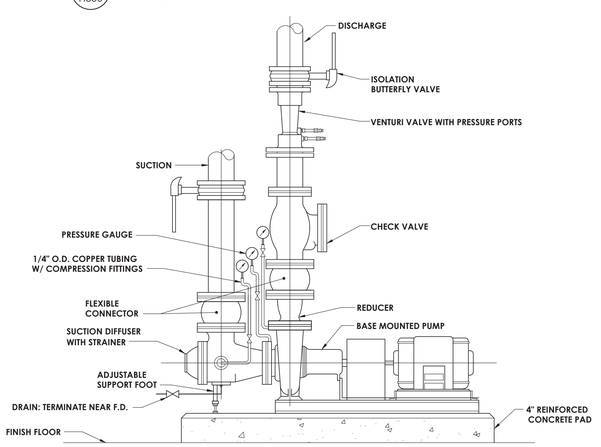
11 H800 EQUIPMENT RAIL DETAIL
SCALE: 1 1/2" = 1'-0"



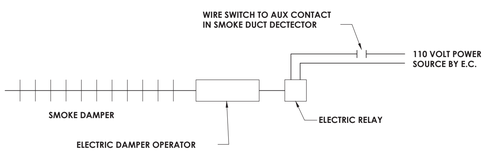
8 H800 INDOOR UNIT SUPPORT INSTALLATION DETAIL
NOT TO SCALE



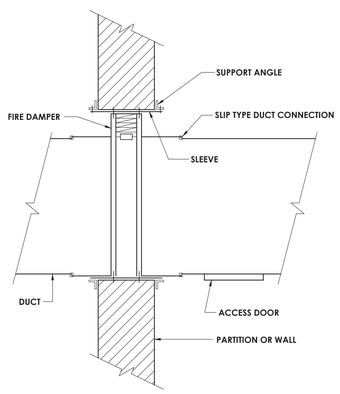
9 H800 PIPE PORTAL DETAIL
NOT TO SCALE



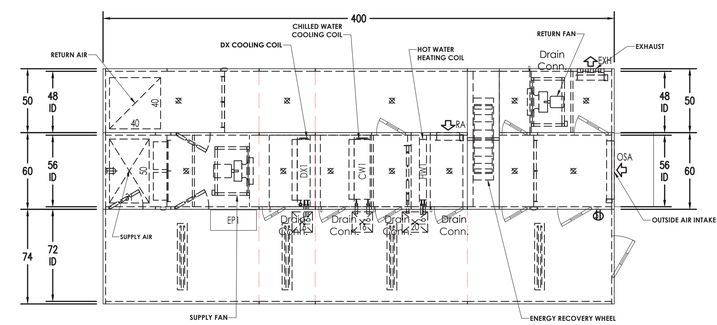
12 H800 BASE MOUNTED PUMP WITH VFD DETAIL
NOT TO SCALE



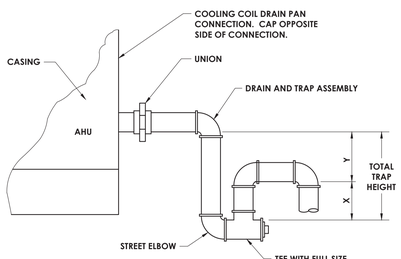
14 H800 SMOKE DAMPER CONTROL DETAIL
NOT TO SCALE



15 H800 VERTICAL FIRE DAMPER DETAIL
NOT TO SCALE



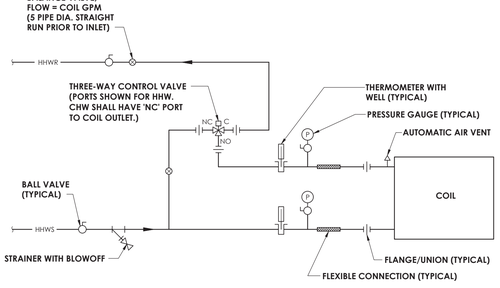
13 H800 AIR HANDLING UNIT DETAIL
NOT TO SCALE



NOTES:

1. DRAIN PIPING SHALL BE MINIMUM UNIT CONNECTION SIZE. UNITS 25 TONS AND LARGER SHALL HAVE DRAIN SIZE ONE PIPE SIZE LARGER THAN DRAIN CONNECTION.
2. DRAIN PAN AT NEGATIVE STATIC PRESSURE.
3. "Y" MUST BE 1" PLUS CASING STATIC PRESSURE. MINIMUM 3" HEIGHT REQUIRED.
4. "X" = 1/2 (Y), MINIMUM 2" REQUIRED.

16 H800 TYPICAL AHU/RTU CONDENSATE TRAP DETAIL (-)
NOT TO SCALE



17 H800 AHU HHW AND CHW COIL PIPING SCHEMATIC
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GOOD SAMARITAN HOSPITAL
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SUFFERN
NY 10901

DATE	DRAWN	CHECKED
3/9/2021	BKM	DH

SCALE: AS SHOWN

SHEET TITLE: MECHANICAL DETAILS

PROJECT NUMBER: 15068.00

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Drawing Name: S:\Projects\Philips Health\GSH New CT Room\D Design\06 CAD\AutoCAD\MECH\H8\H800.dwg
Date last accessed: 3/8/2021 9:44 AM
Date last plotted: 3/8/2021 10:14 AM
Plotted By: Brendon Mazza

AIR HANDLING UNIT SCHEDULE

MARK	UNIT TYPE	CFM	MIN. OA CFM	SUPPLY FAN MOTOR DATA				RETURN FAN MOTOR DATA				CHILLED WATER COOLING COIL										DX COOLING COIL						HOT WATER HEATING COIL DATA												TYPICAL UNIT MFG & MODEL NO.	REMARKS:
				EXT. SP W.C.	HP EA/TOTAL	RPM	VOLTS/Ø	EXT. SP W.C.	HP EA/TOTAL	RPM	VOLTS/Ø	TOTAL	SENS	FACE AREA SQ. FT.	ROWS	EWT	LWT	EAT °F DB/WB	LAT °F DB/WB	GPM	APD IN-W.C.	WPD FT-W.C.	TOTAL MBH	SENS MBH	EAT	LAT	APD IN-W.C.	MBH	FACE AREA SQ. FT.	EWT	LWT	EAT °F	LAT °F	APD IN-W.C.	GPM	WPD FT-W.C.	CAPACITY (LB/HR)	PRESSURE (PSIG)	EAT/RH	LEAVING RH		
AHU-19	ROOFTOP	13,000	4000	2.5	4.5/27	4260	460/3	1.5	8.5/25.5	2545	460/3	648.4	422.7	30.8	8	45	55	80/67	50/50	129	0.9	16.26	576.6	389.6	80/67	52.8/52.3	0.54	435	27.63	180	160	50	80.9	0.07	44.4	5.29	162.6	15	55/30.4%	60.00%	NORTEK	

REMARKS: 1. PROVIDE ONE VFD PER MOTOR IN SUPPLY AND RETURN FAN ARRAYS
2. PROVIDE CUSTOM COLOR TO BE SELECTED BY OWNER
4. INTEGRAL HEAT RECOVERY WHEEL, SEE SEPARATE SCHEDULE
4. PROVIDE 6' SERVICE VESTIBULE

ENERGY RECOVERY WHEEL PERFORMANCE SCHEDULE

MARK	WINTER CONDITIONS									SUMMER CONDITIONS									MOTOR HP	TYPICAL UNIT MFG & MODEL NO.	REMARKS:
	WHEEL ENTERING CONDITIONS				WHEEL LEAVING CONDITIONS				EFFECTIVENESS @ WINTER DESIGN	WHEEL ENTERING CONDITIONS				WHEEL LEAVING CONDITIONS				EFFECTIVENESS @ SUMMER DESIGN			
	OUTSIDE AIR		RETURN AIR		SUPPLY AIR		EXHAUST AIR			OUTSIDE AIR		RETURN AIR		SUPPLY AIR		EXHAUST AIR					
	DB (°F)	WB (°F)	DB (°F)	WB (°F)	DB (°F)	WB (°F)	DB (°F)	WB (°F)	TOTAL %	DB (°F)	WB (°F)	DB (°F)	WB (°F)	DB (°F)	WB (°F)	DB (°F)	WB (°F)	TOTAL %			
AHU-19	5.4	5.4	70	53	56.8	45.6	18.5	18	79.6	90	75	75	62.5	78.5	66.3	86.5	71.9	76.4	0.5	INNERGYTECH I3-MS3A	

REMARKS:

PUMPING SKID SCHEDULE

MARK	LOCATION	SERVICE	GPM	HD (FT.)	ELECTRICAL DATA			TYPICAL UNIT MFG & MODEL NO.	HX MARK	TYPE	STEAM (SHELL)		HOT WATER (TUBE)					DIMENSIONS		TYPICAL UNIT MFG & MODEL NO.	TYPICAL MODE	REMARKS:
					HP	VOLTS	PH				PSIG	LBS/HR	GPM	EWT (°F)	LWT (°F)	ΔP FT-H20	MBH	DIAMETER	LENGTH			
HWP-1	SOUTH MECH ROOM	HEATING HOT WATER	63	55	3	460	3	TACO 1509D	HX-1	STEAM TO HOT WATER	5	965	95	160	180	0.57	950	8	4	TACO	E0820-S	
HWP-2	SOUTH MECH ROOM	HEATING HOT WATER	63	55	3	460	3	TACO	--	--	--	--	--	--	--	--	--	--	--	--		--

REMARKS: 1. INCLUDE 3" AIR SEPARATOR
2. INCLUDE EXPANSION TANK SIZE - 34 GALLONS. TACO MODEL PAX 130 OR EQUIVALENT

VARIABLE AIR VOLUME (VAV) TERMINAL SCHEDULE

MARK	AHU TAG	SIZE		CFM MAX.		STATIC PRESSURE		NC LEVELS		HOT WATER HEATING COIL								HAND	TYPICAL UNIT MFG & MODEL NO.	REMARKS:
		UNIT	OUTLET	MAX	MIN	DOWN	MIN	RAD	DIS	MBH	EAT °F	EWT °F	LAT °F	APD	GPM @ 180°F EWT	LWT °F	WPD FT. HD	ROWS			
VAV-01	AC-1	7	12X10	350	175	0.25	0.09	19	24	7.6	55	180	95	0.05	0.9	162.8	0.47	1	RH	TITUS DESV	*
VAV-02	AC-1	12	16X15	900	450	0.25	0.08	19	23	19.5	55	180	95	0.07	9.3	175.7	9.55	1	RH	TITUS DESV	
VAV-03	AC-1	6	12X8	325	200	0.25	0.23	20	22	9.8	55	180	100	0.14	0.6	147.2	0.08	1	RH	TITUS DESV	
VAV-04	AC-1	8	12X10	400	275	0.25	0.13	17	25	12.5	55	180	97	0.12	0.6	137.9	0.1	2	RH	TITUS DESV	
VAV-05	AC-1	8	12X10	400	400	0.25	0.13	17	25	17.4	55	180	95	0.12	0.9	141.1	0.18	2	RH	TITUS DESV	
VAV-06	AC-1	10	14X12.5	500	250	0.25	0.06	22	23	8.7	55	180	95	0.05	0.8	157.7	0.1	1	RH	TITUS DESV	
VAV-07	AC-1	16	24X18	1100	915	0.25	0.09	11	11	41.7	55	180	97	0.08	1.8	133.3	0.08	2	RH	TITUS DESV	
VAV-08	AC-1	7	12X10	200	190	0.25	0.03	13	24	8.3	55	180	95	0.02	1.3	167	0.92	1	RH	TITUS DESV	
VAV-09	AC-1	8	12X10	400	225	0.25	0.07	18	25	9.7	55	180	94.9	0.06	5.4	175.6	9.99	1	RH	TITUS DESV	
VAV-10	AC-1	8	12X10	425	375	0.25	0.14	18	25	16.3	55	180	95	0.13	0.8	139.9	0.16	2	RH	TITUS DESV	
VAV-11	AC-1	8	12X10	350	175	0.25	0.06	17	25	7.6	55	180	95	0.05	0.9	162.8	0.47	1	RH	TITUS DESV	
VAV-12	AC-1	4	12X8	200	100	0.25	0.11	27	34	4.3	55	180	95	0.03	0.4	156.8	0.1	1	RH	TITUS DESV	
VAV-13	AC-1	12	16X15	800	800	0.25	0.13	18	22	34.7	55	180	95	0.12	1.6	134.4	0.24	2	RH	TITUS DESV	
VAV-14	AC-1	6	12X8	230	230	0.25	0.12	15	23	10.3	55	180	96.3	0.08	0.6	145.3	0.08	2	RH	TITUS DESV	
VAV-15	AC-1	12	16X15	775	685	0.25	0.13	18	22	29.7	55	180	95	0.12	1.3	131.2	0.18	2	RH	TITUS DESV	
VAV-16	AC-1	6	12X8	250	220	0.25	0.14	16	23	10.1	55	180	97.5	0.09	0.6	145.9	0.08	2	RH	TITUS DESV	
VAV-17	AC-1	4	12X8	100	100	0.25	0.03	14	27	4.3	55	180	95	0.01	0.4	156.8	0.1	1	RH	TITUS DESV	
VAV-18	AC-1	14	20X17.5	950	525	0.25	0.05	17	18	22.8	55	180	95	0.04	2.9	164	0.44	1	RH	TITUS DESV	
VAV-19	AC-1	16	24X18	1200	660	0.25	0.06	13	13	28.6	55	180	95	0.05	4	165.1	0.87	1	RH	TITUS DESV	
VAV-20	AC-1	12	16X15	680	400	0.25	0.06	24	24	17.4	55	180	95	0.05	3.4	169.4	1.36	1	RH	TITUS DESV	

REMARKS:

FAN SCHEDULE

MARK	LOCATION	SERVICE	TYPE	ROOF OPENING (IN.)	CFM	SP IN W.G.	DIAMETER (IN.)	RPM	ELECTRICAL DATA			TYPICAL UNIT MFG & MODEL NO.	REMARKS:
									BHP / HP	VOLTS	PHASE		
EF-1	ROOF	LOCKER ROOMS AND BATHROOMS	DOWNBLAST	18.5X18.5	2250	0.85	28	1223	.67/.75	460	3	GREENHECK GB-160	1, 2, 3
EF-2	ROOF	EVS AND BATHROOM	DOWNBLAST	18.5X18.5	1450	0.58	28	1106	.28/.5	115	1	GREENHECK GB-140 VG	1, 2, 3

REMARKS: 1. PROVIDE FACTORY MOUNTED AND WIRED DISCONNECT SWITCH
2. PROVIDE BACKDRAFT DAMPER
3. PROVIDE VFD

AIR COOLED CONDENSING UNIT SCHEDULE

MARK	LOCATION	SERVES	NOMINAL TONS	MBH	SST °F	ELECTRICAL DATA					WT (LB)	TYPICAL UNIT MFG & MODEL NO.	REMARKS:
						FAN DATA		WSA	OPD	VOLTS/Ø	FLA		
						NO.	HP						
ACCU-1	ROOF	AC-1	1.5	18	95	1	0.2	14.8	25	208/1/60	12.1	200	LIEBERT PFH020A-LN	1
ACCU-2	ROOF	AC-2	3	36	95	1	0.2	8.7	15	460/3/60	7.1	241	LIEBERT PFH037A-LN	1
ACCU-3	ROOF	AC-3	5	60	95	1	0.5	14.2	20	460/3/60	11.7	351	LIEBERT PFH067A-LN	1
ACCU-4	ROOF	AC-4	3	36	95	1	0.5	-	44	208/1/60	36	278	MITSUBISHI PUMY-HP36	1
ACCU-5	ROOF	AHU-19	50	576	95	4	-	-	100	460/3/60	90.7	2345	YORK YD600	1,2

REMARKS: 1. UNITS TO BE MOUNTED ON WIND-RATED EQUIPMENT RAILS
2. INCLUDE LOW AMBIENT KIT

STEAM GENERATOR SCHEDULE

MARK	LOCATION	SERVICE	BOILER STEAM		CLEAN STEAM		WEIGHT (LBS)	EMERGENCY GENERATOR	TYPICAL UNIT MFG. & MODEL NO.	REMARKS:
			PSI	PPH	FLUID	PPH				
H-1	MECH ROOM	AHU-19	15	201	WATER	175	-	NO	CONDAIR SE 175	1

REMARKS: 1. PROVIDE 1/2" MAKEUP WATER CONNECTION

REGISTERS, GRILLES, AND DIFFUSERS

MARK	APPLICATION	MATERIAL	TYPE	FINISH	FACE SIZE	DESIGN EQUIP.	REMARKS
D-1	SUPPLY	STEEL	LAY IN	WHITE	24X24	PRICE SCD	
D-2	SUPPLY	STEEL	LAY IN	WHITE	12x12	PRICE SCD	
R-1	RETURN/EA	STEEL	LAY IN	WHITE	24X24	PRICE PDDR	
R-2	RETURN/EA	STEEL	LAY IN	WHITE	AS NOTED	PRICE 530	

REMARKS: 1.

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Date last plotted: 3/8/2021 10:17 AM
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Drawing Name: S:\Projects\Philips Health\GSH New CT Room\D Design\04 CAD\AutoCAD\MECH\HPH900.dwg