

1			2		3	4	5
DUCTWORK SYMBOLS			EQUIPMENT SYMBOLS		SYMBOLS	EQUIPMENT ABBREVIATIONS	
DESCRIPTION	SINGLE LINE	DOUBLE LINE	SYMBOL	DESCRIPTION			
ACCESS DOOR				MISC. EQUIPMENT		B	BOILER
BACKDRAFT DAMPER						CH	CHILLER
FIRE DAMPER				VARIABLE AIR VOLUME BOX		FCU	FAN COIL UNIT
SMOKE DAMPER						FTR	FIN TUBE RADIATION
COMBINATION FIRE/SMOKE DAMPER				CHILLER		P	PUMP
FLEXIBLE CONNECTION						VAV	VARIABLE AIR VOLUME BOX
MOTORIZED DAMPER				HORIZONTAL SPLIT-CASE PUMP			
CONTROL DAMPER							
VOLUME DAMPER, MANUAL				VERTICAL INLINE PUMP			
STATIC PRESSURE MEASURING STATION							
DUCT ELBOW WITH TURNING VANES				END-SUCTION PUMP			
DUCT SECTION - SUPPLY AIR							
DUCT SECTION - RETURN, OUTSIDE, OR RELIEF AIR							
DUCT SECTION - EXHAUST AIR							
DUCT, INCLINED DROP				BOILER			
DUCT, INCLINED RISE							
FLEXIBLE DUCT - ROUND							
DUCT TRANSITION							
DUCT TRANSITION (SQUARE OR RECTANGULAR TO ROUND)							
RECTANGULAR DUCT, SIZE IN INCHES, FIRST DIMENSION IS SIDE SHOWN (NET CLEAR INSIDE DIMENSION)							
ROUND DUCT, DIAMETER IN INCHES, (NET CLEAR INSIDE DIMENSION)							
AIR FLOW IN DIRECTION OF ARROW							
45° BRANCH TAKE-OFFS							
CONICAL LATERAL BRANCH TAKE-OFFS							
CEILING SUPPLY DIFFUSERS							
CEILING RETURN GRILLE/REGISTER							
CEILING EXHAUST GRILLE/REGISTER							
SIDEWALL SUPPLY GRILLE/REGISTER							
SIDEWALL RETURN/EXHAUST GRILLE/REGISTER							
EXTRACTOR							
DUCT TEE WITH SPLITTER DAMPER							
DOOR UNDERCUT							
DOOR LOUVER							

NOT FOR CONSTRUCTION

911 Central Parkway N., Suite 425 San Antonio, TX 78323
501 North Broadway, St. Louis, Missouri 63102-2121

Revision:
Date: By: Description:

AIR FORCE CENTER FOR ENGINEERING AND THE ENVIRONMENT (AFCEE)
FACILITIES DYNAMIC PROTOTYPES DESIGN FOR DORMITORIES

Scales: 12" = 1'-0"

Jacobs Project No.: FDWD1301

Drawing Title:

Mechanical Symbols

Date: May 11, 2009

Designed By: Designer
Drawn By: Author
Checked By: Checker

Drawing No.: M00

AIR FORCE CENTER FOR ENGINEERING AND THE
ENVIRONMENT (AFCEE)
FACILITIES DYNAMIC PROTOTYPES DESIGN FOR
DORMITORIES

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

Jacobs Project No.: FDWD1301

Drawing Title:

Cold/Arid

Date: May 11, 2009

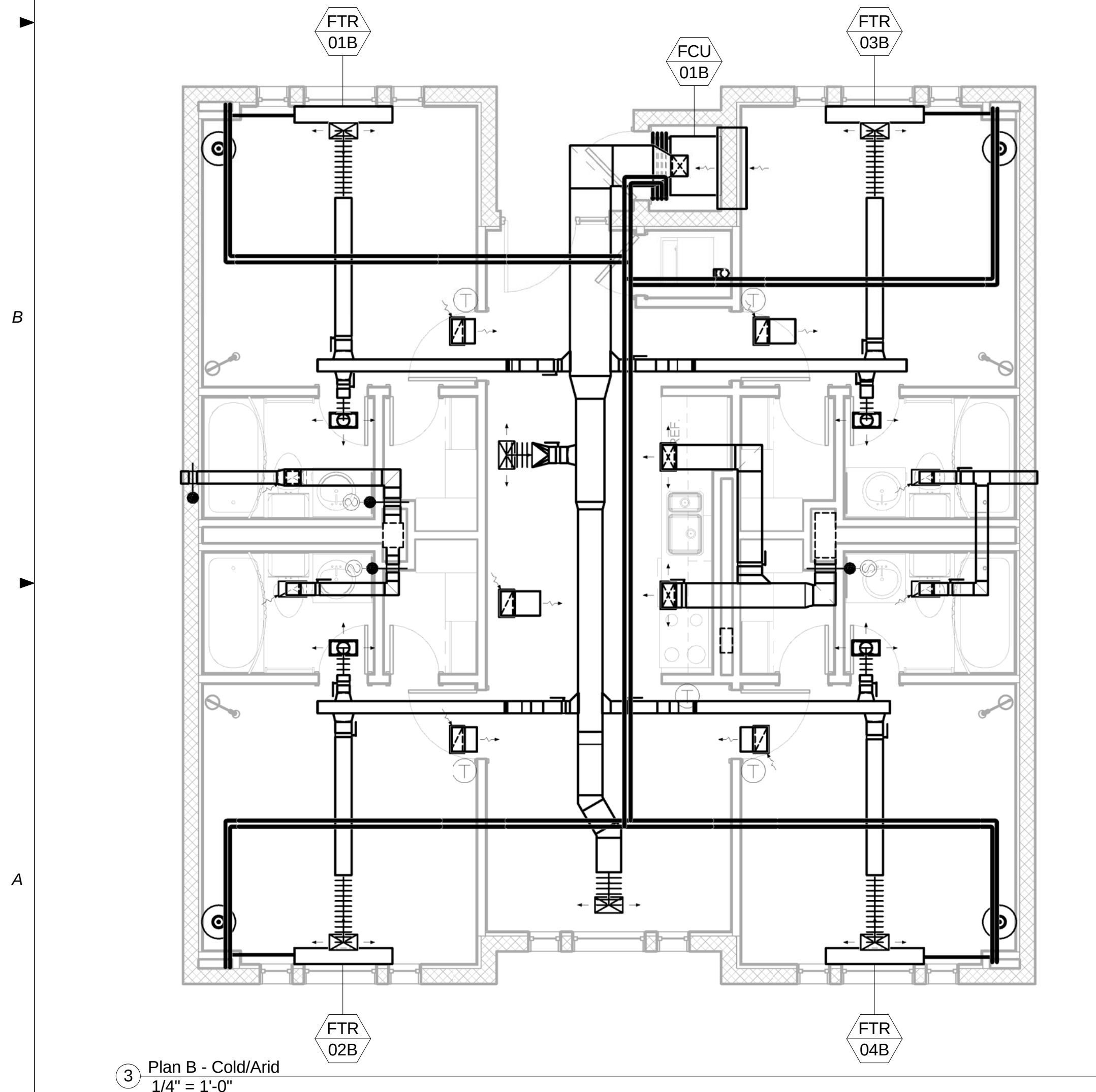
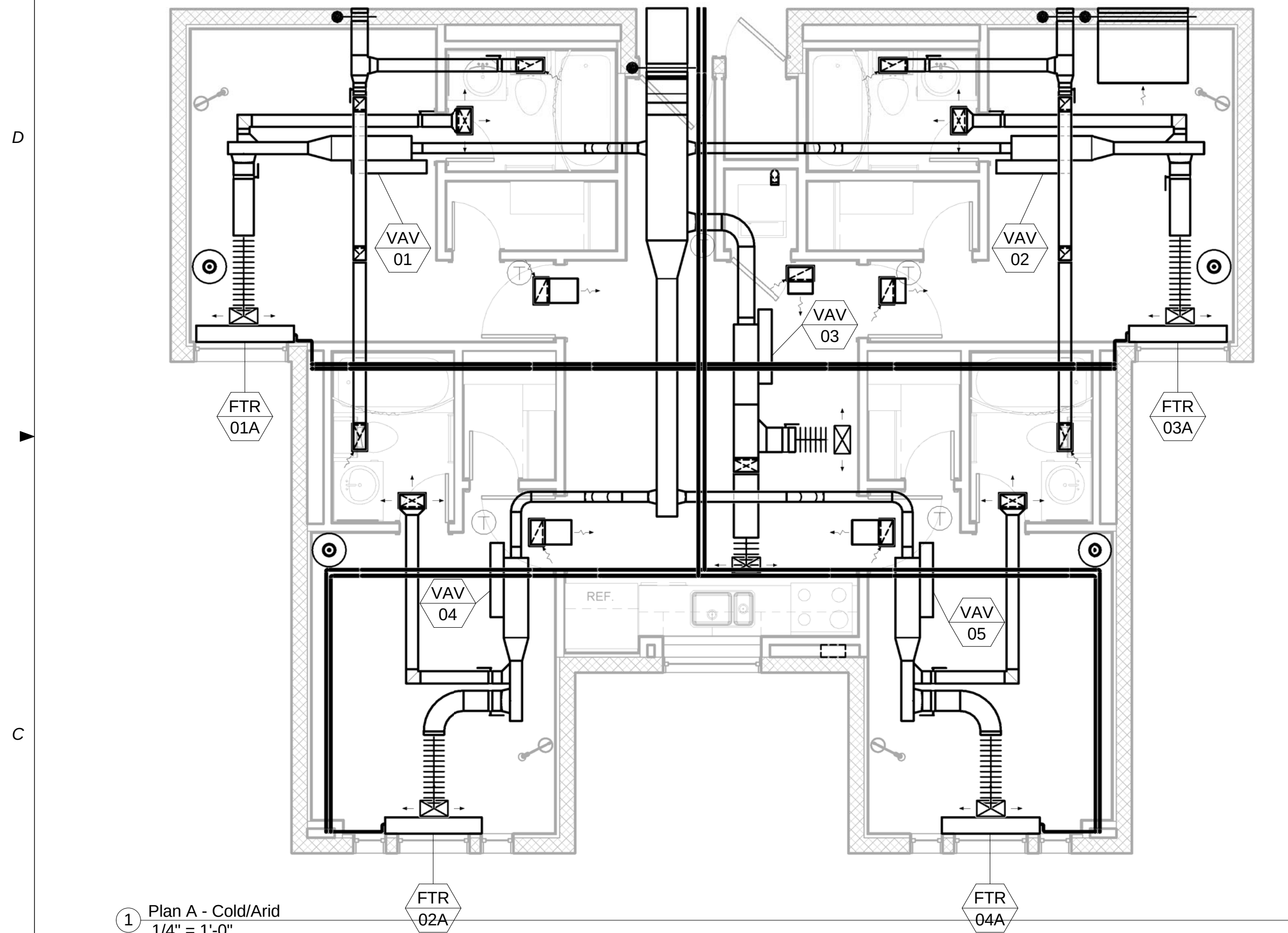
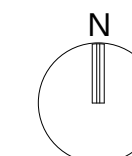
Designed By: Designer

Drawn By: Author

Checked By: Checker

Drawing No.:

M01



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AIR FORCE CENTER FOR ENGINEERING AND THE
ENVIRONMENT (AFCEE)
FACILITIES DYNAMIC PROTOTYPES DESIGN FOR
DORMITORIES

Scales: As indicated

Jacobs Project No.: FDWD1301

Drawing Title:

Cold/Arid

Date: May 11, 2009

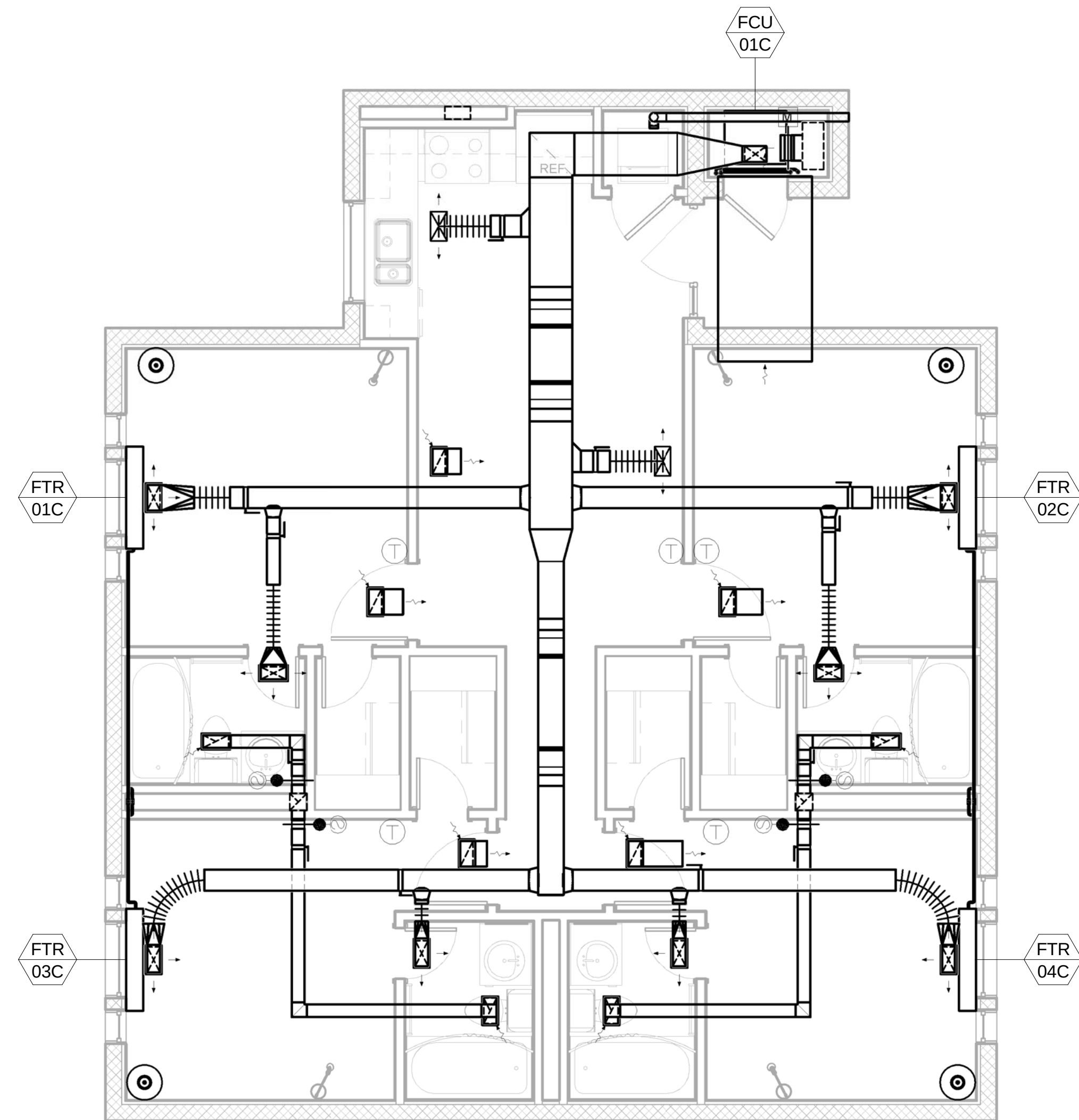
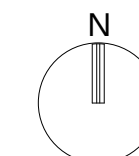
Designed By: Designer

Drawn By: Author

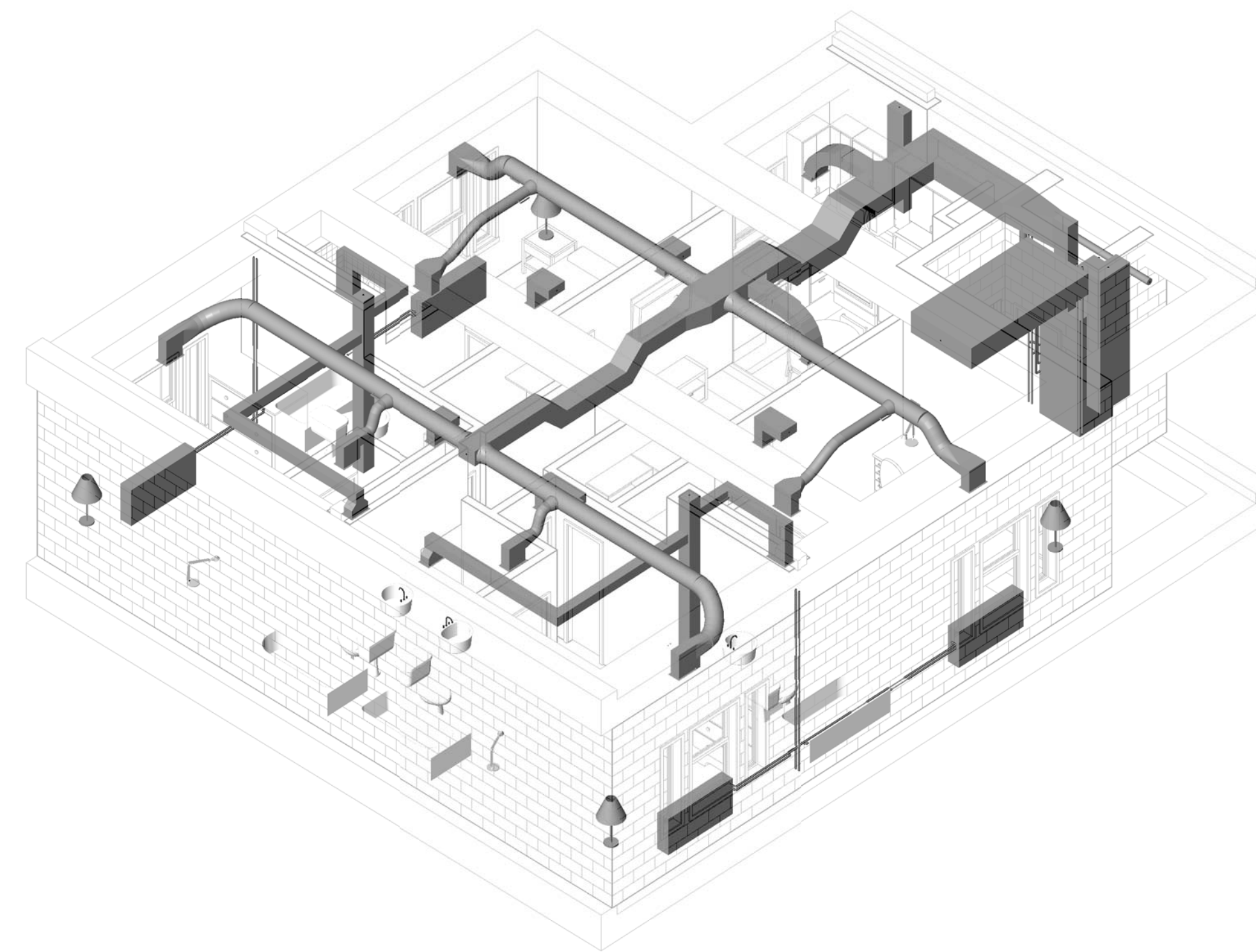
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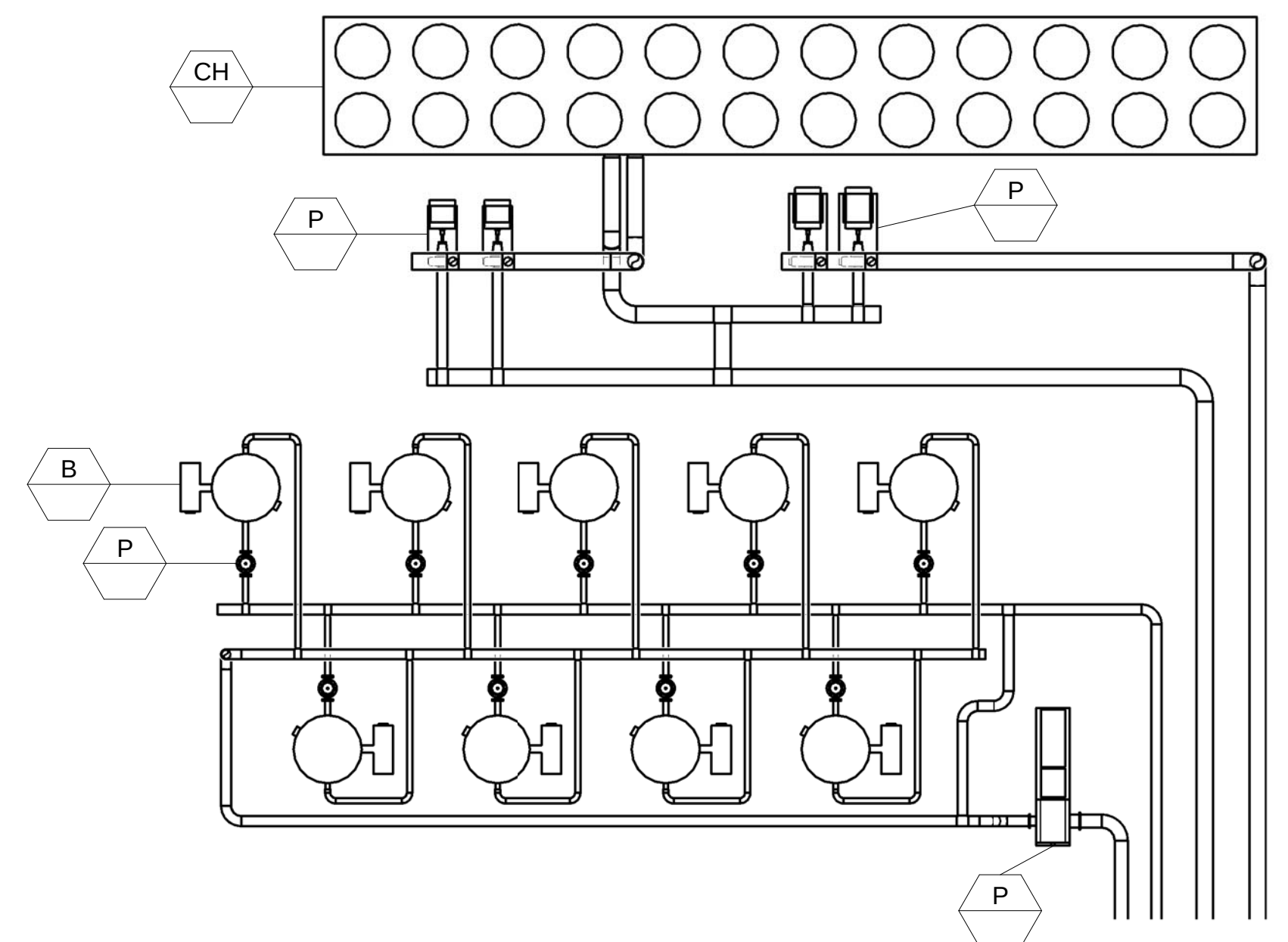
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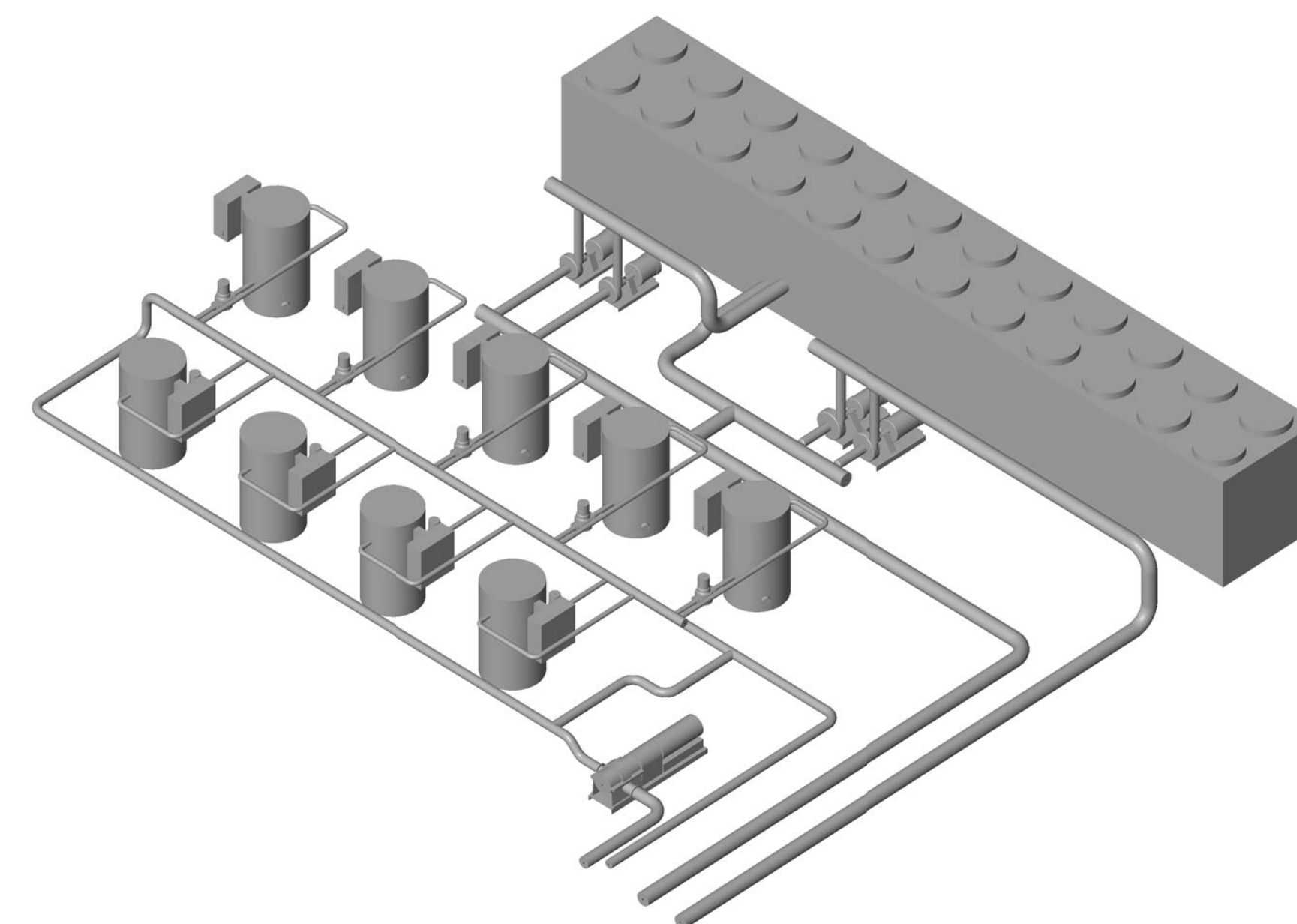
1 Plan C - Cold/Arid
1/4" = 1'-0"



2 Plan C - Cold/Arid



3 Mechanical Yard - Cold/Arid
1/8" = 1'-0"



4 Mechanical Yard - Cold/Arid

AIR FORCE CENTER FOR ENGINEERING AND THE
ENVIRONMENT (AFCEE)
FACILITIES DYNAMIC PROTOTYPES DESIGN FOR
DORMITORIES

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

Jacobs Project No.: FDWD1301

Drawing Title:

Hot/Arid

Date: May 11, 2009

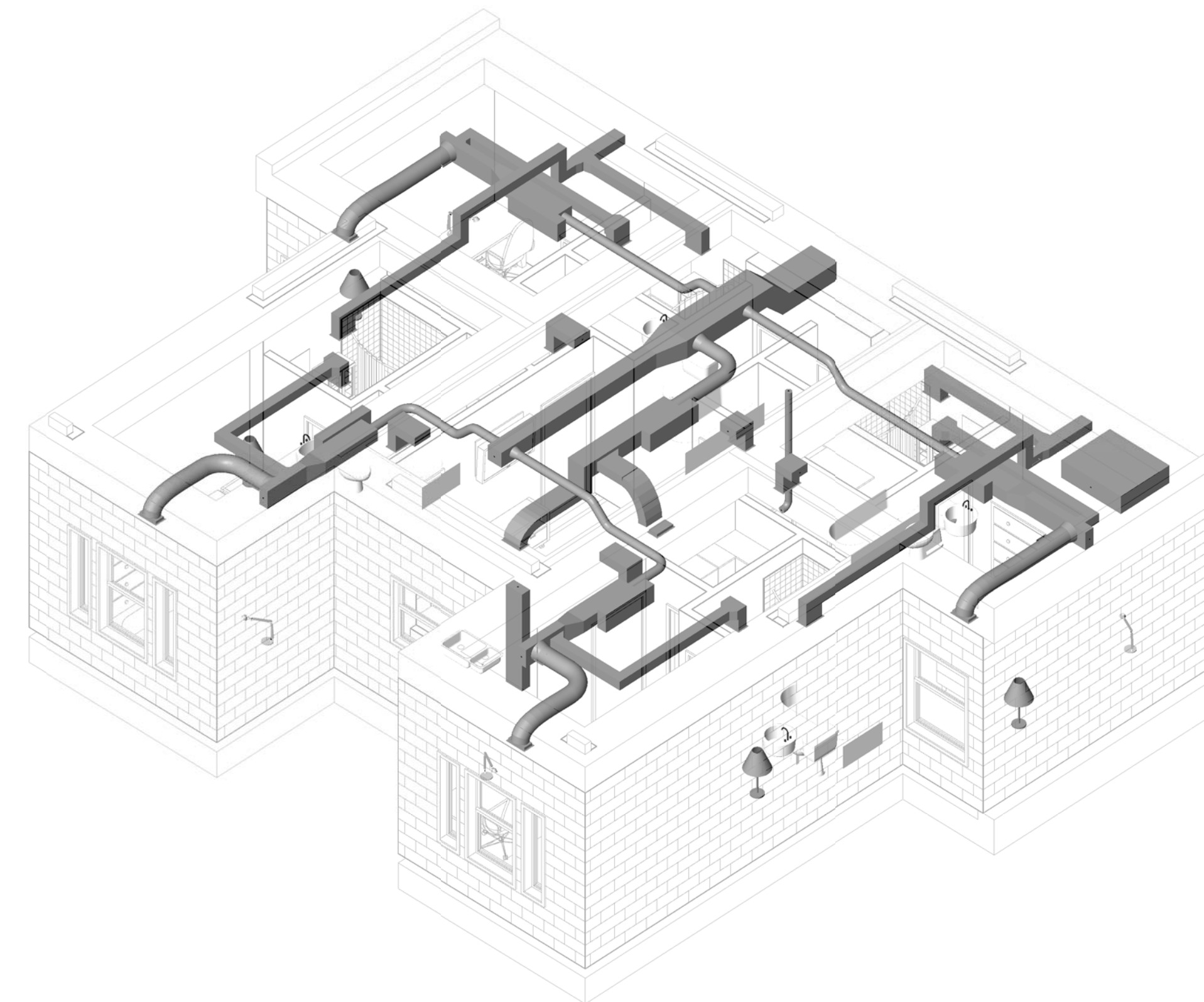
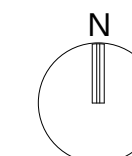
Designed By: Designer

Drawn By: Author

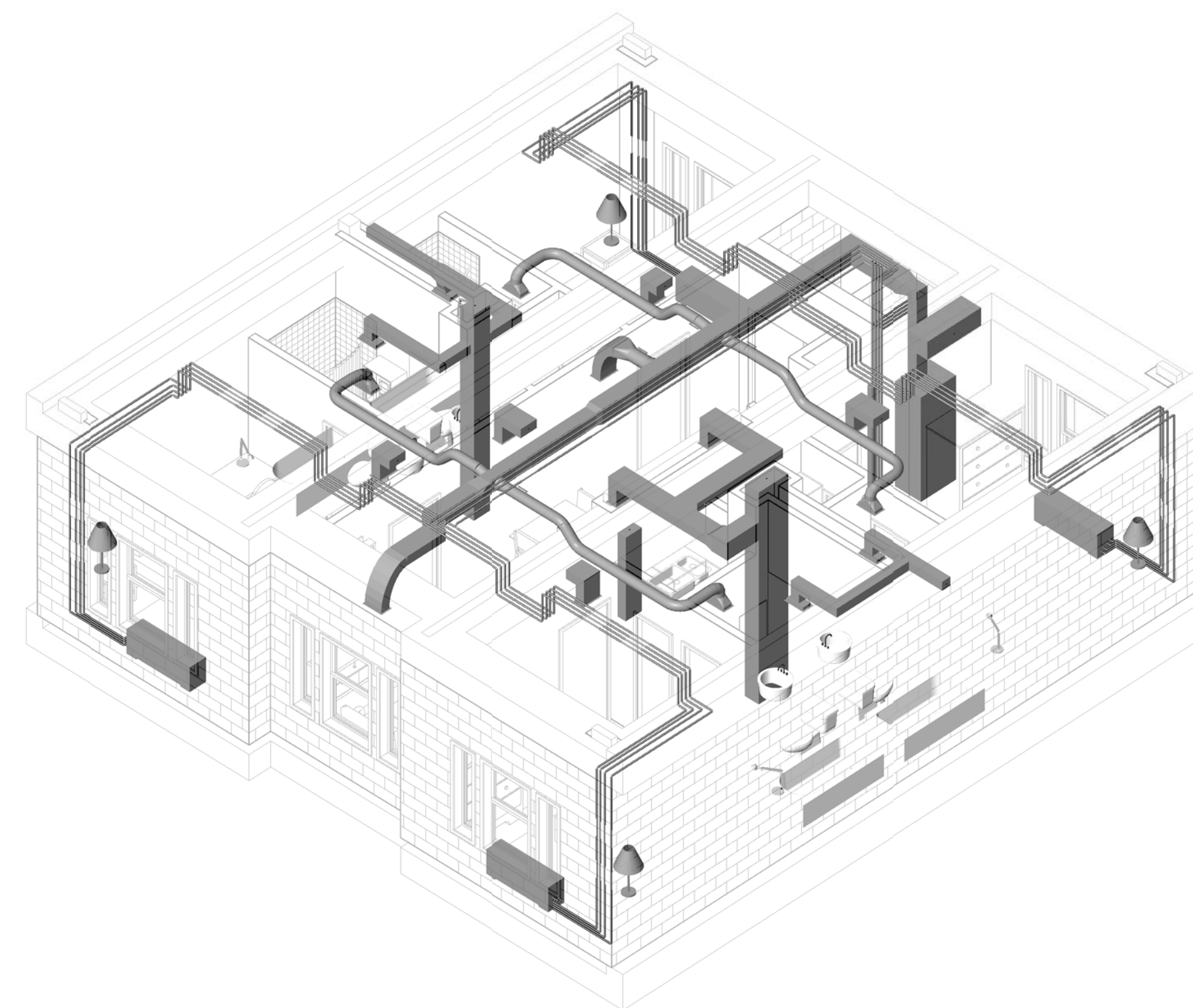
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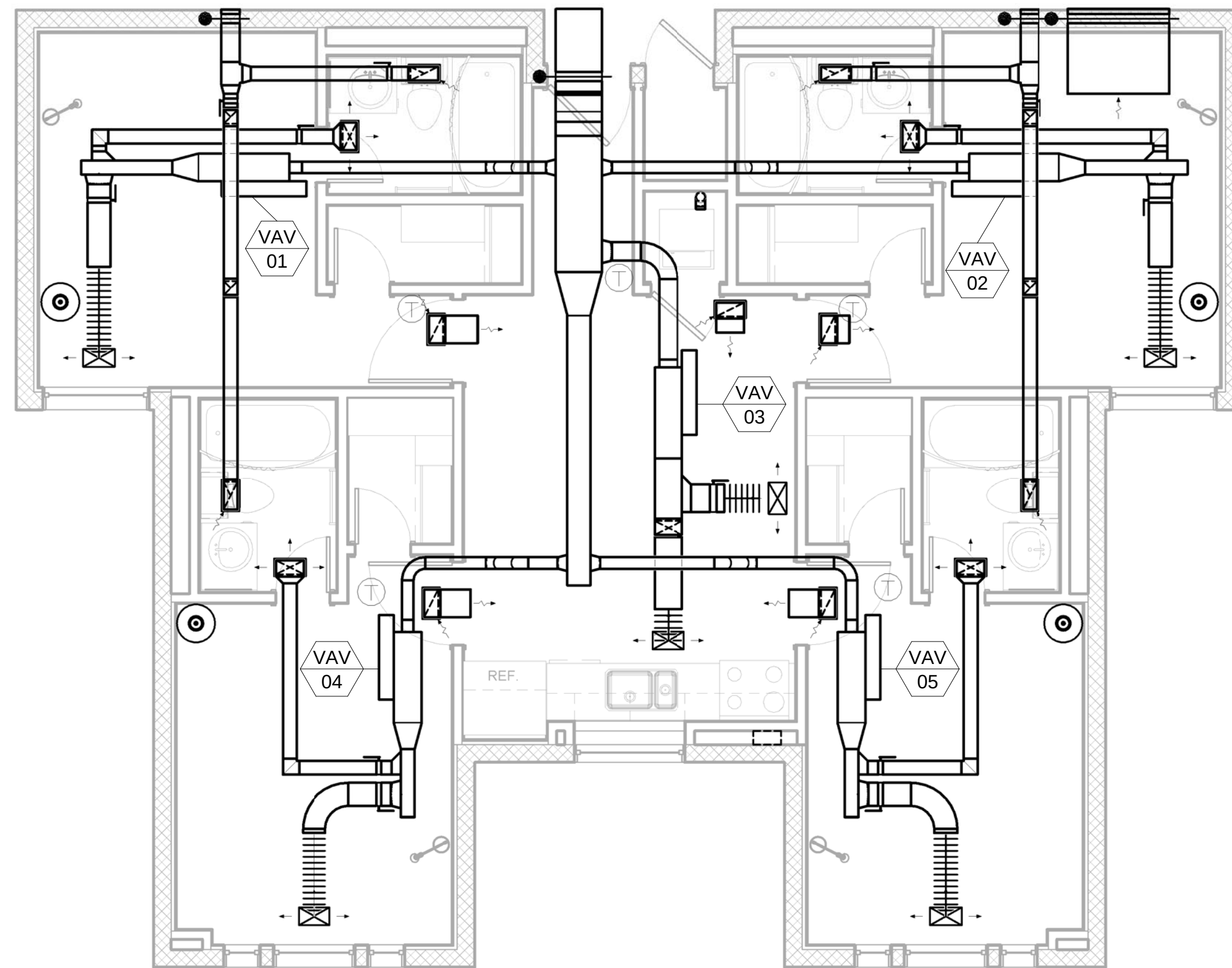
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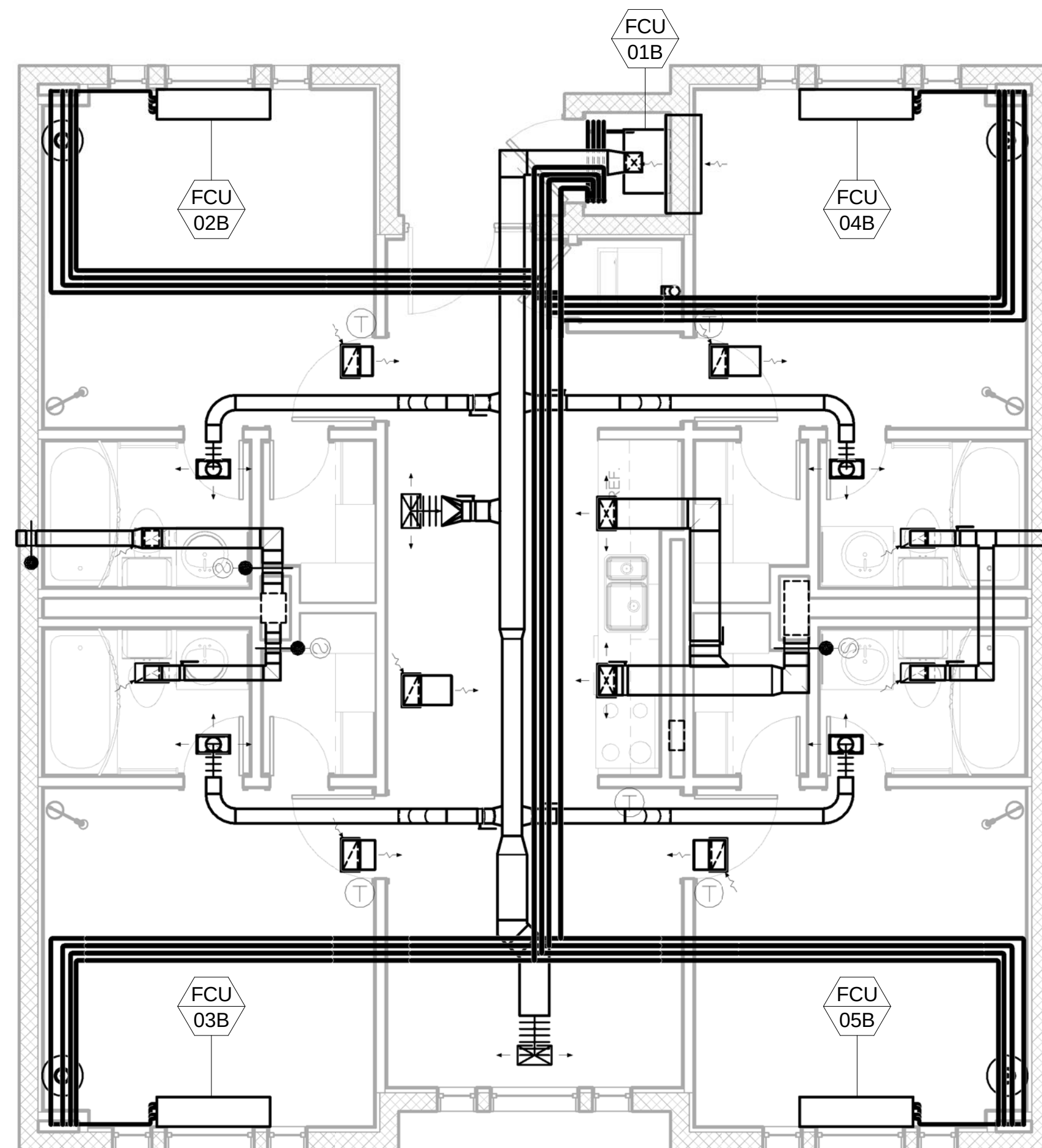
② Plan A - Hot/Arid



④ Plan B - Hot/Arid



① Plan A - Hot/Arid
1/4" = 1'-0"



③ Plan B - Hot/Arid
1/4" = 1'-0"

AIR FORCE CENTER FOR ENGINEERING AND THE
ENVIRONMENT (AFCEE)
FACILITIES DYNAMIC PROTOTYPES DESIGN FOR
DORMITORIES

Scales: As indicated

Jacobs Project No.: FDWD1301

Drawing Title:

Hot/Arid

Date: May 11, 2009

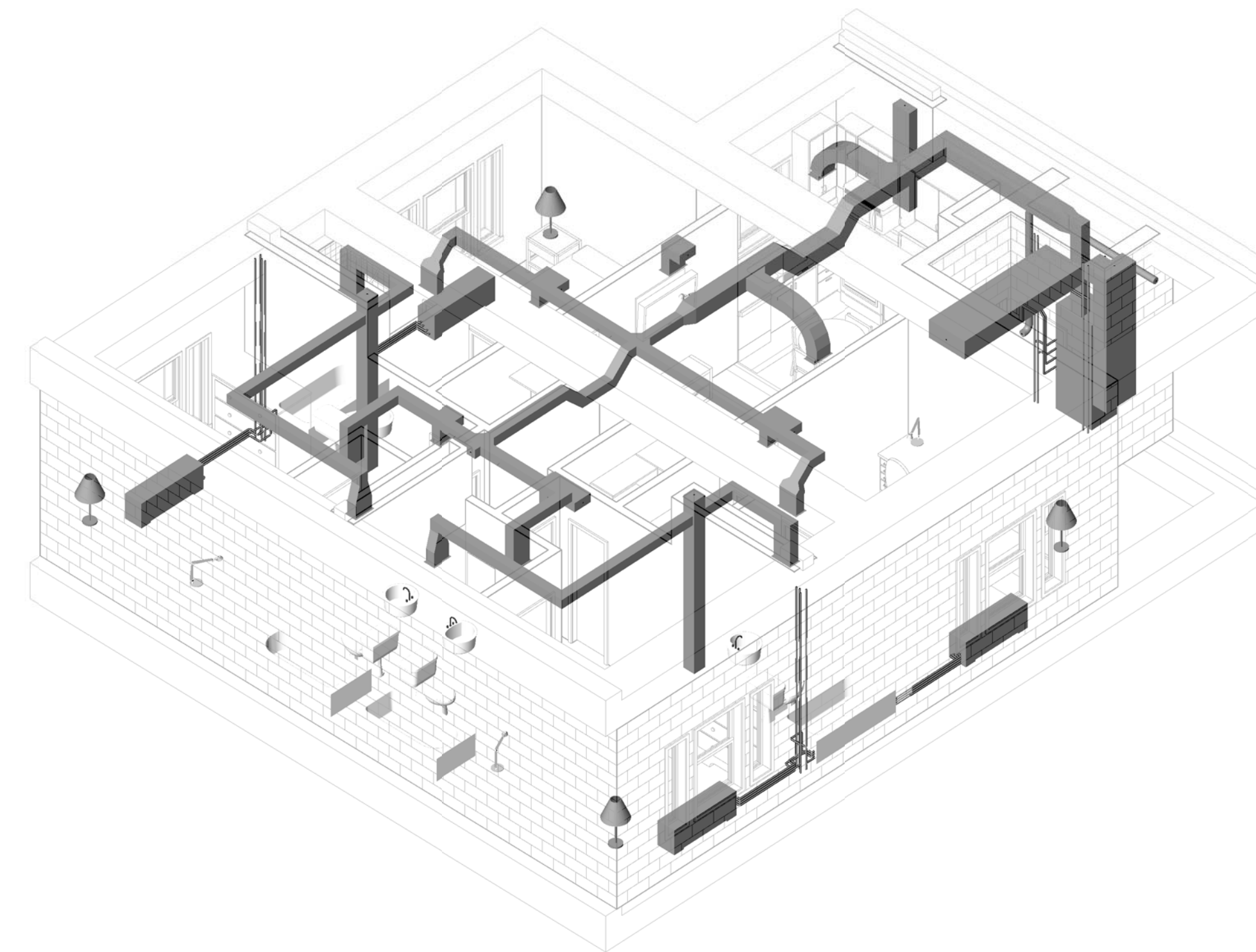
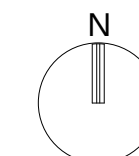
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Drawn By: Author

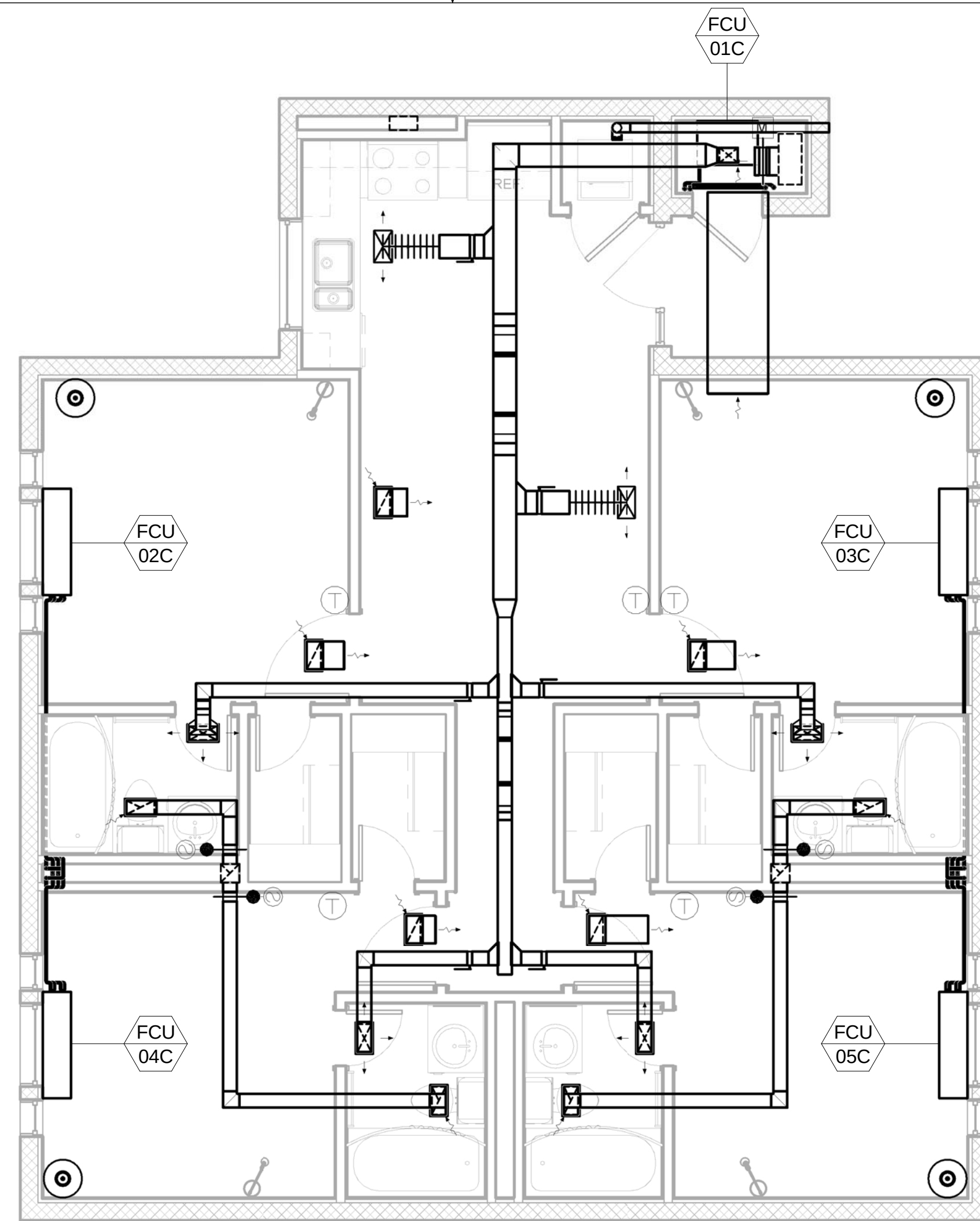
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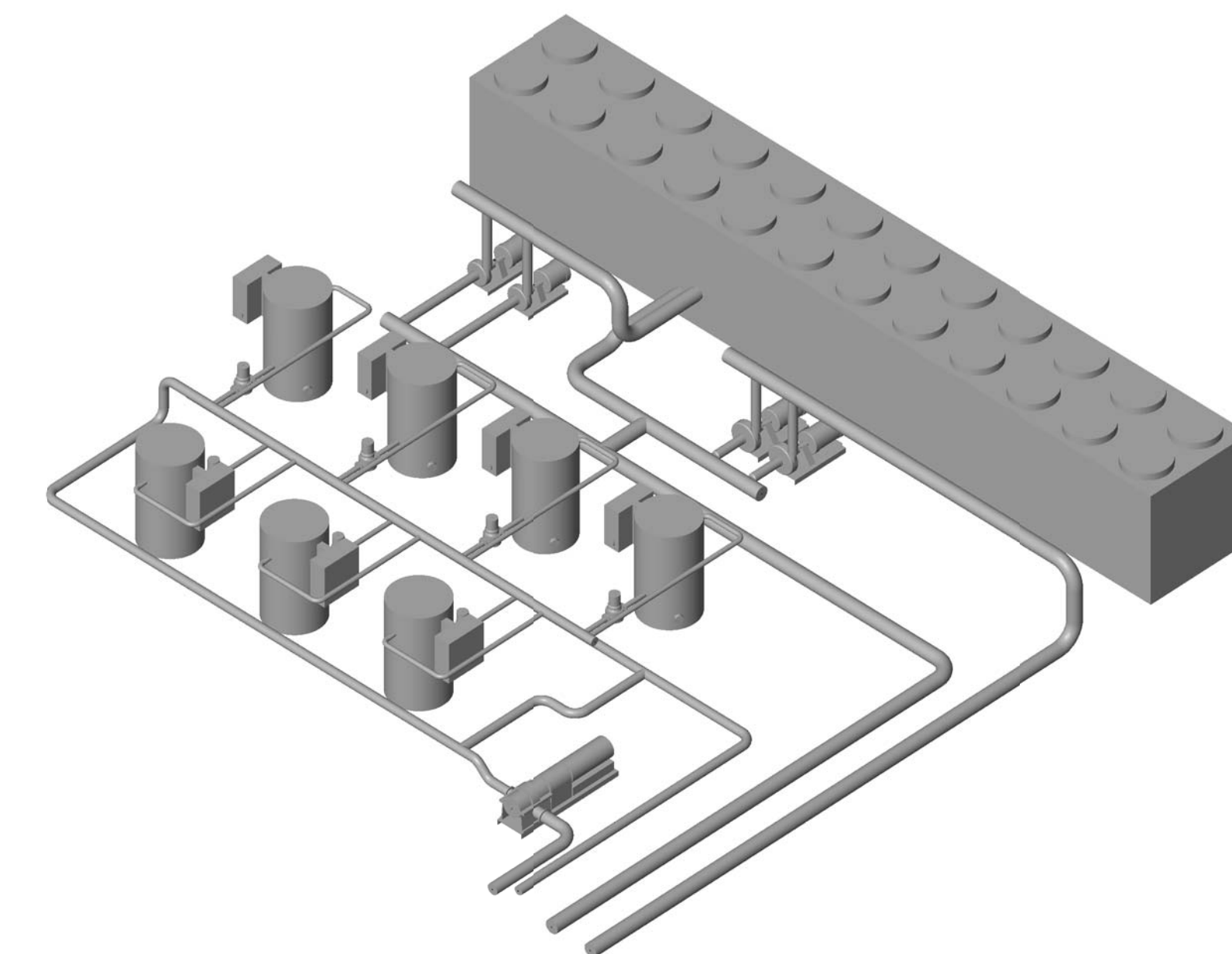
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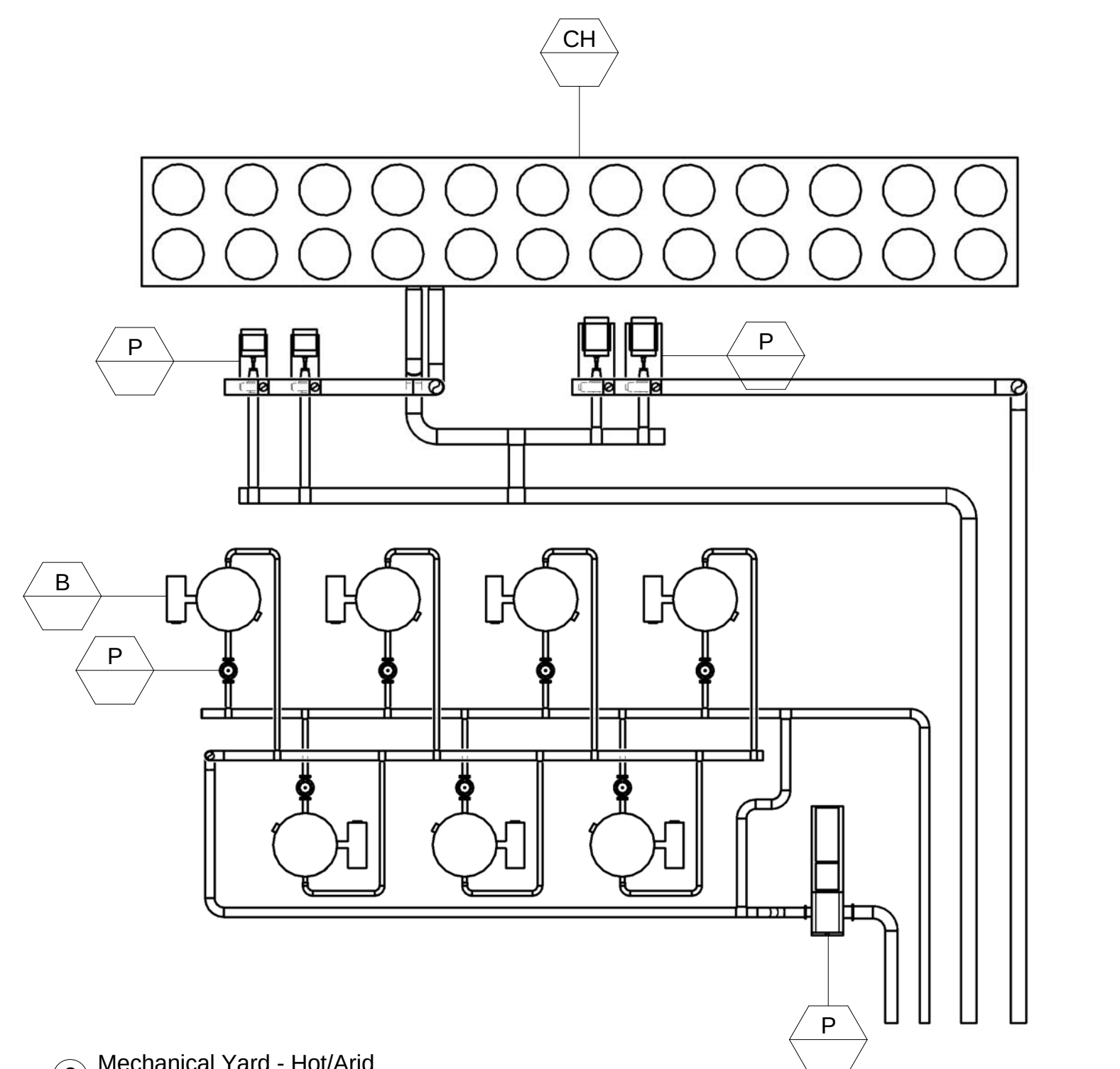
2 Plan C - Hot/Arid



1 Plan C - Hot/Arid
1/4" = 1'-0"



4 Mechanical Yard - Hot/Arid



3 Mechanical Yard - Hot/Arid
1/8" = 1'-0"

AIR FORCE CENTER FOR ENGINEERING AND THE
ENVIRONMENT (AFCEE)
FACILITIES DYNAMIC PROTOTYPES DESIGN FOR
DORMITORIES

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

Jacobs Project No.: FDWD1301

Drawing Title:

Hot/Humid

Date: May 11, 2009

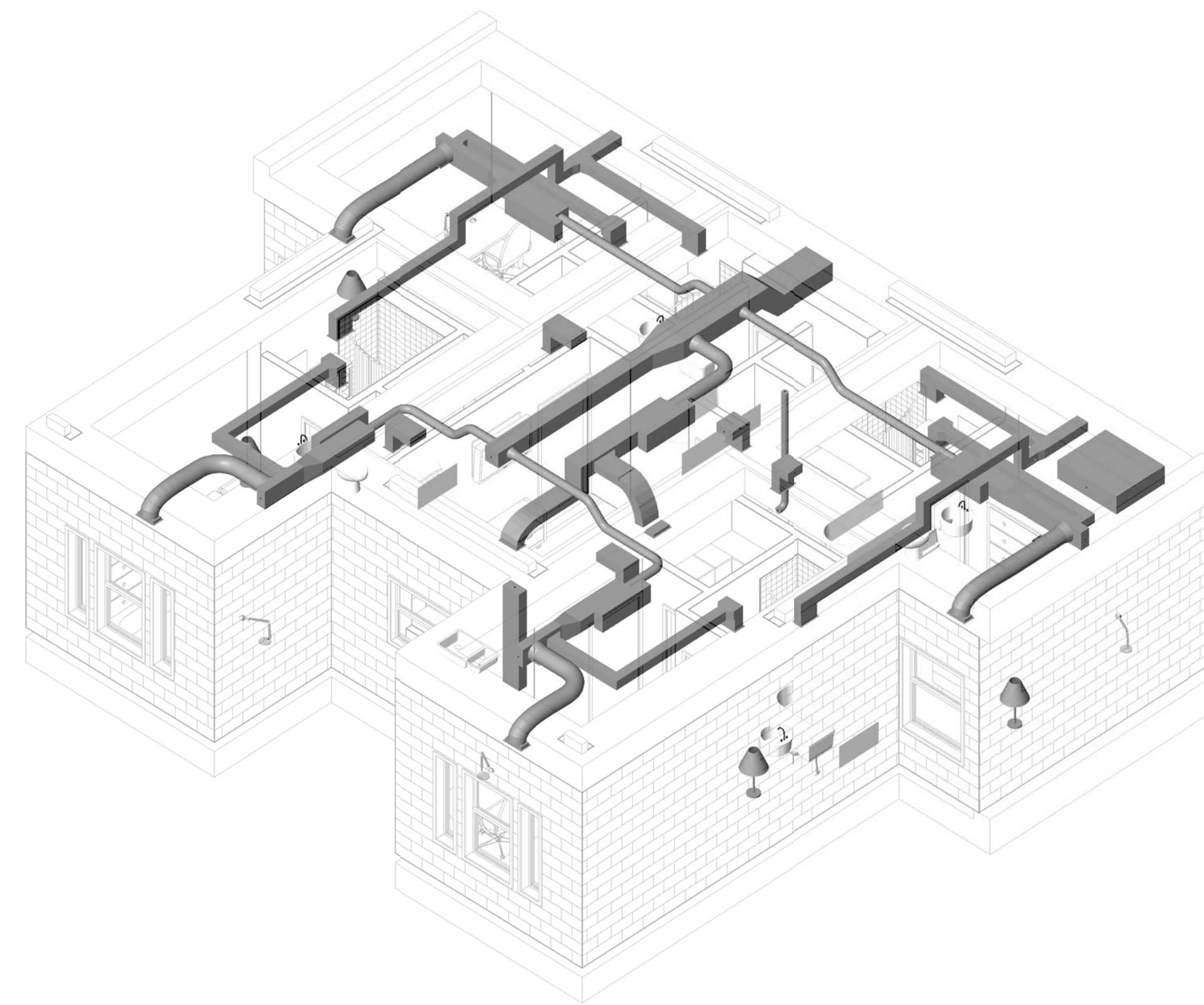
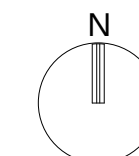
Designed By: Designer

Drawn By: Author

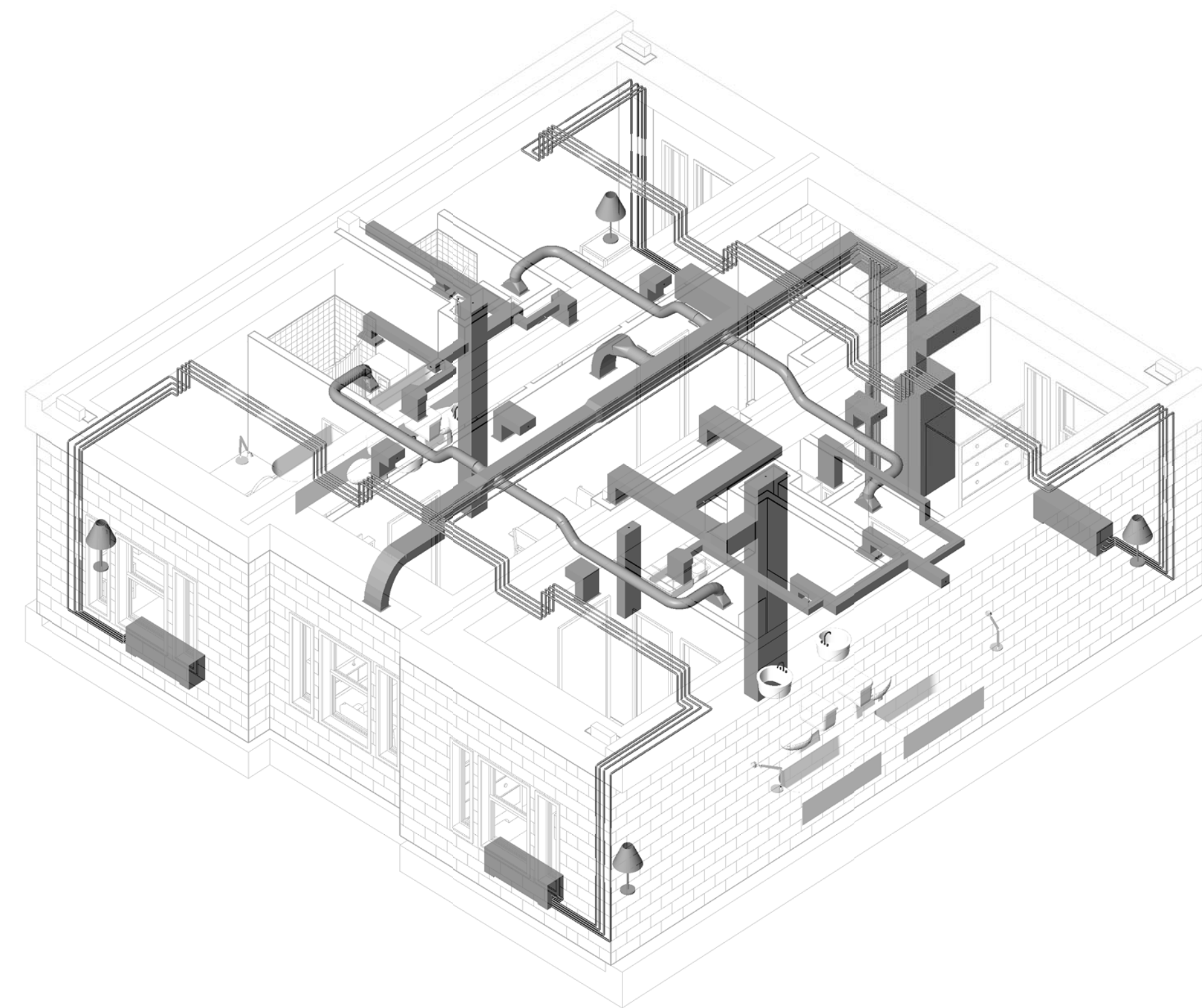
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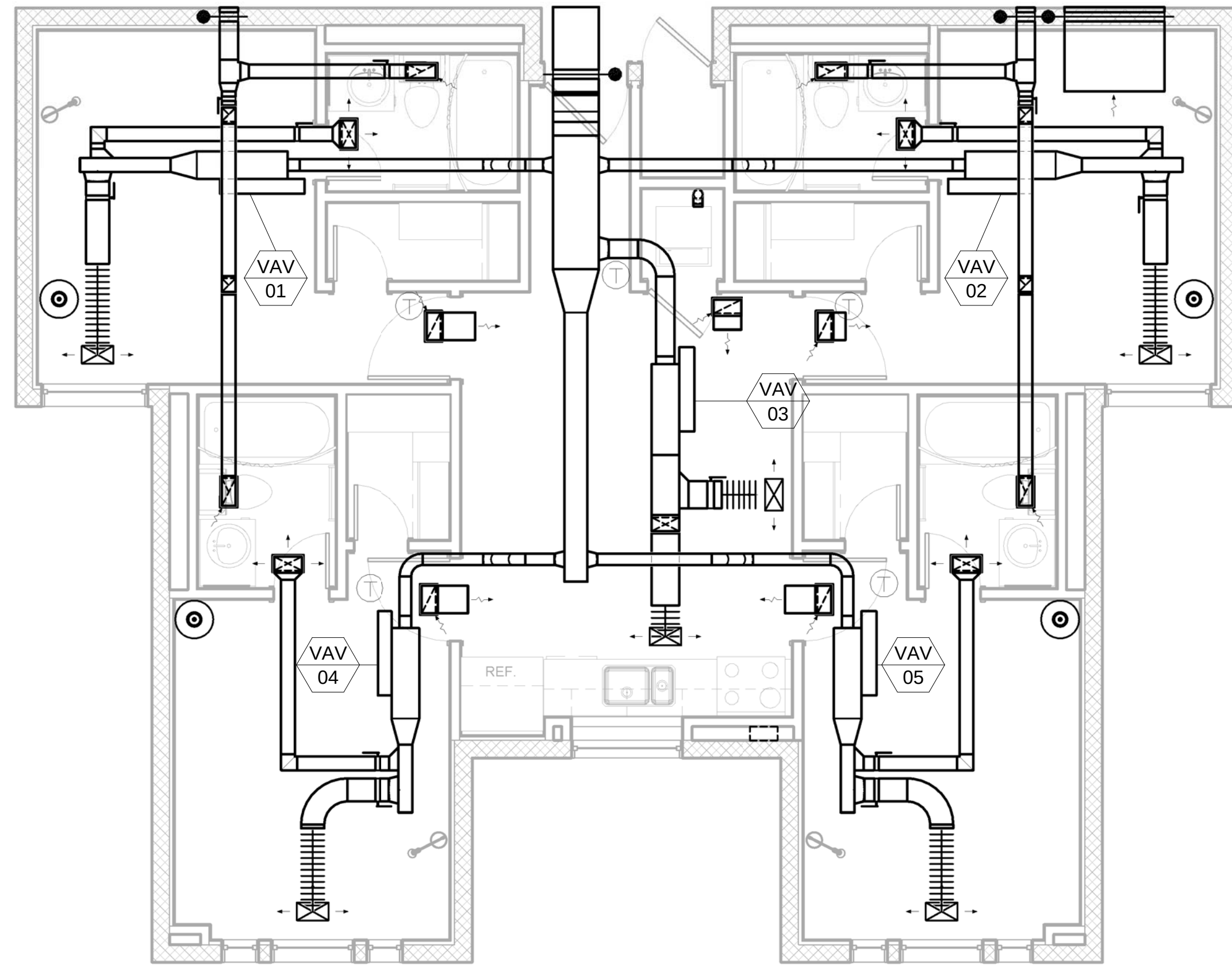
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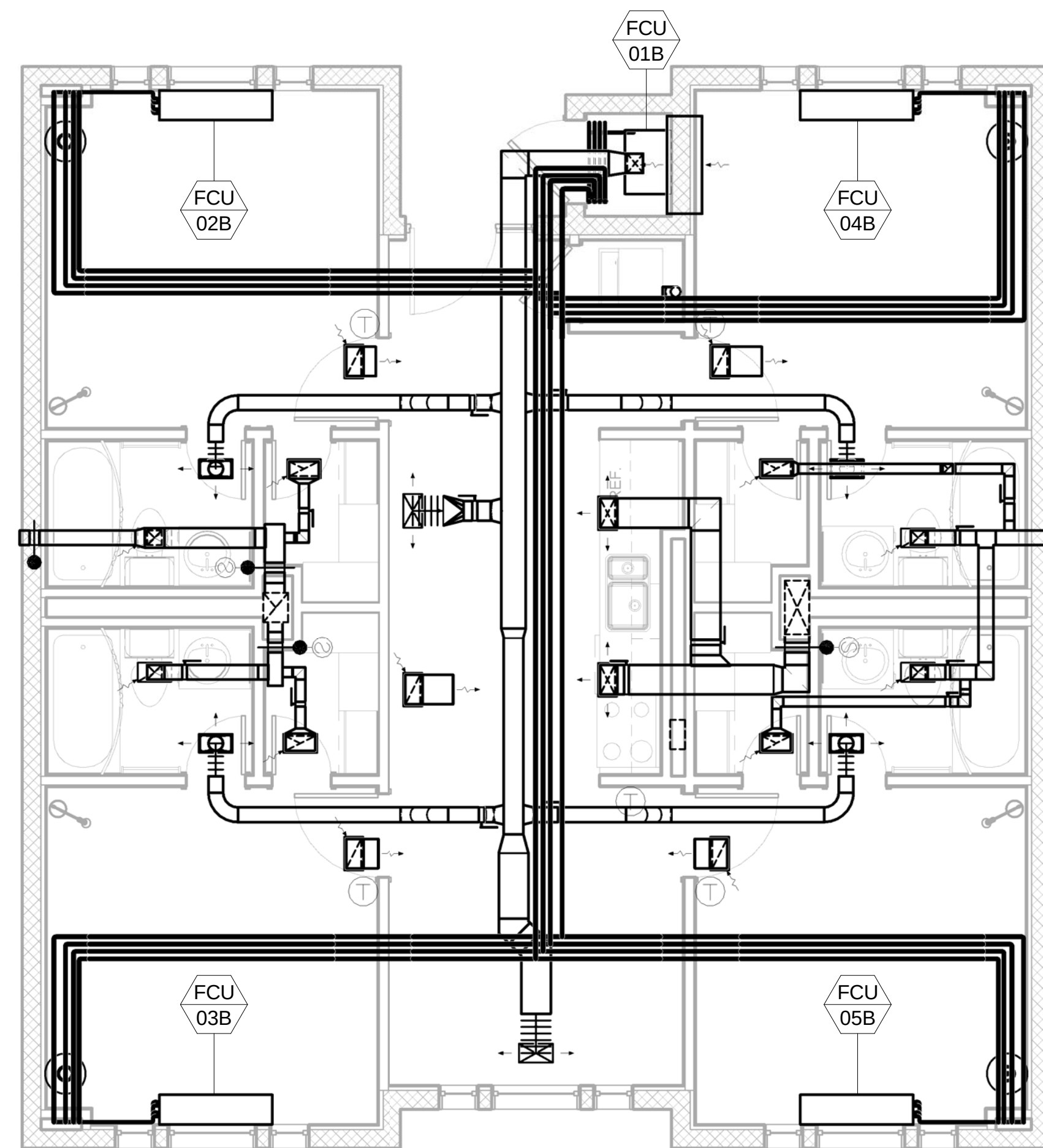
② Plan A - Hot/Humid



④ Plan B - Hot/Humid



① Plan A - Hot/Humid
1/4" = 1'-0"



③ Plan B - Hot/Humid
1/4" = 1'-0"

AIR FORCE CENTER FOR ENGINEERING AND THE
ENVIRONMENT (AFCEE)
FACILITIES DYNAMIC PROTOTYPES DESIGN FOR
DORMITORIES

Scales: As indicated

Jacobs Project No.: FDWD1301

Drawing Title:

Hot/Humid

Date: May 11, 2009

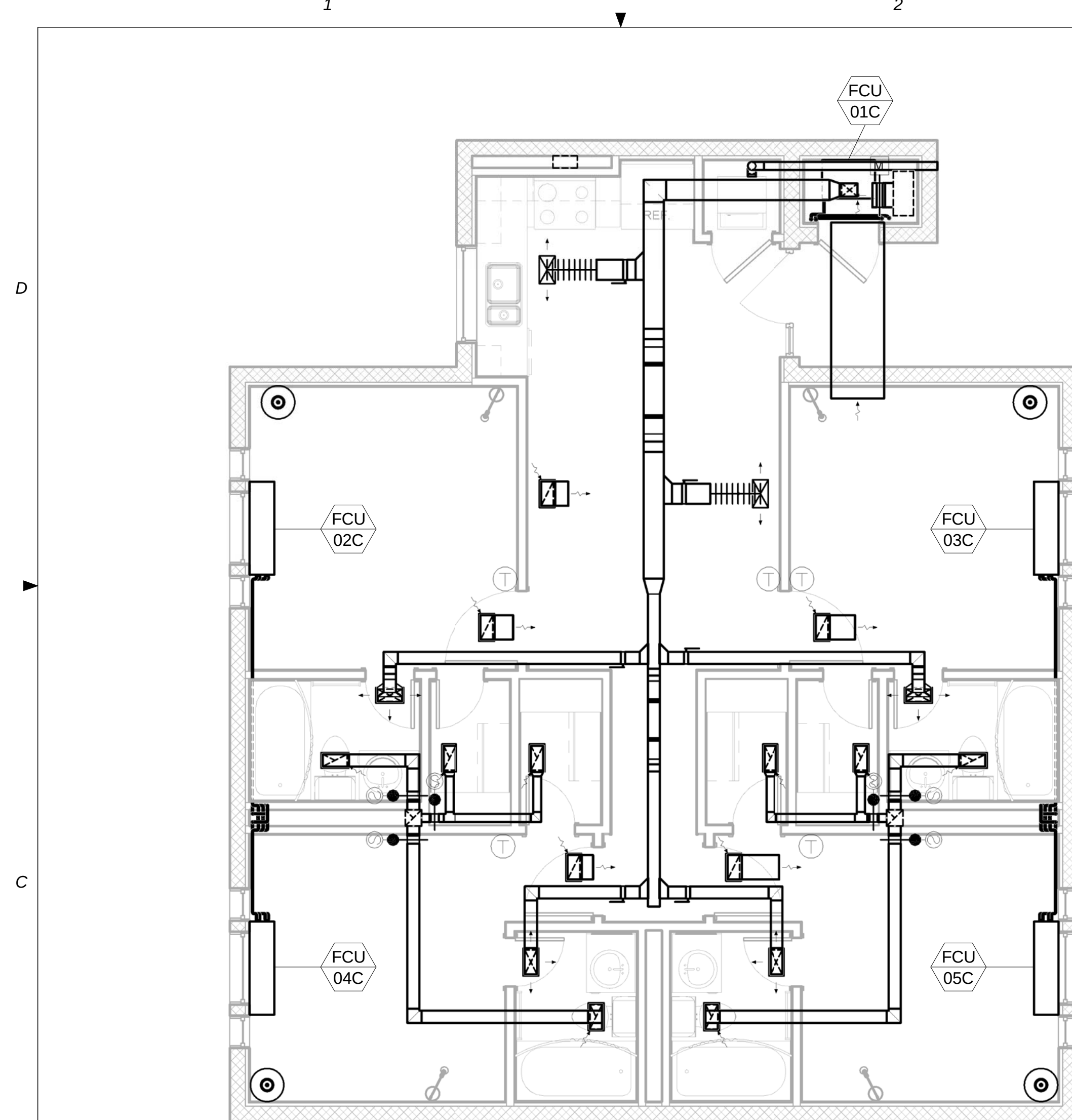
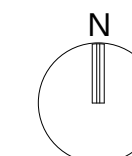
Designed By: Designer

Drawn By: Author

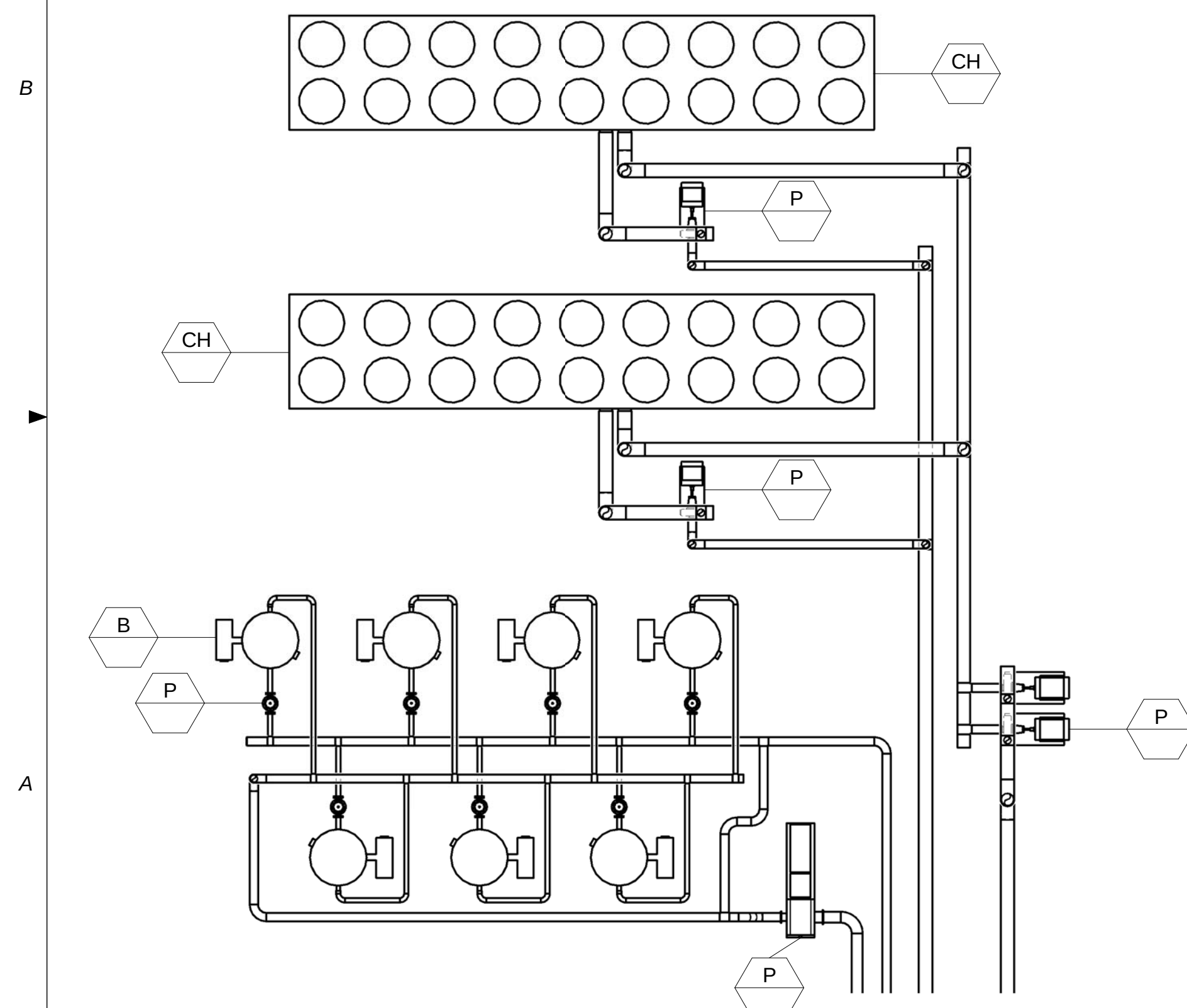
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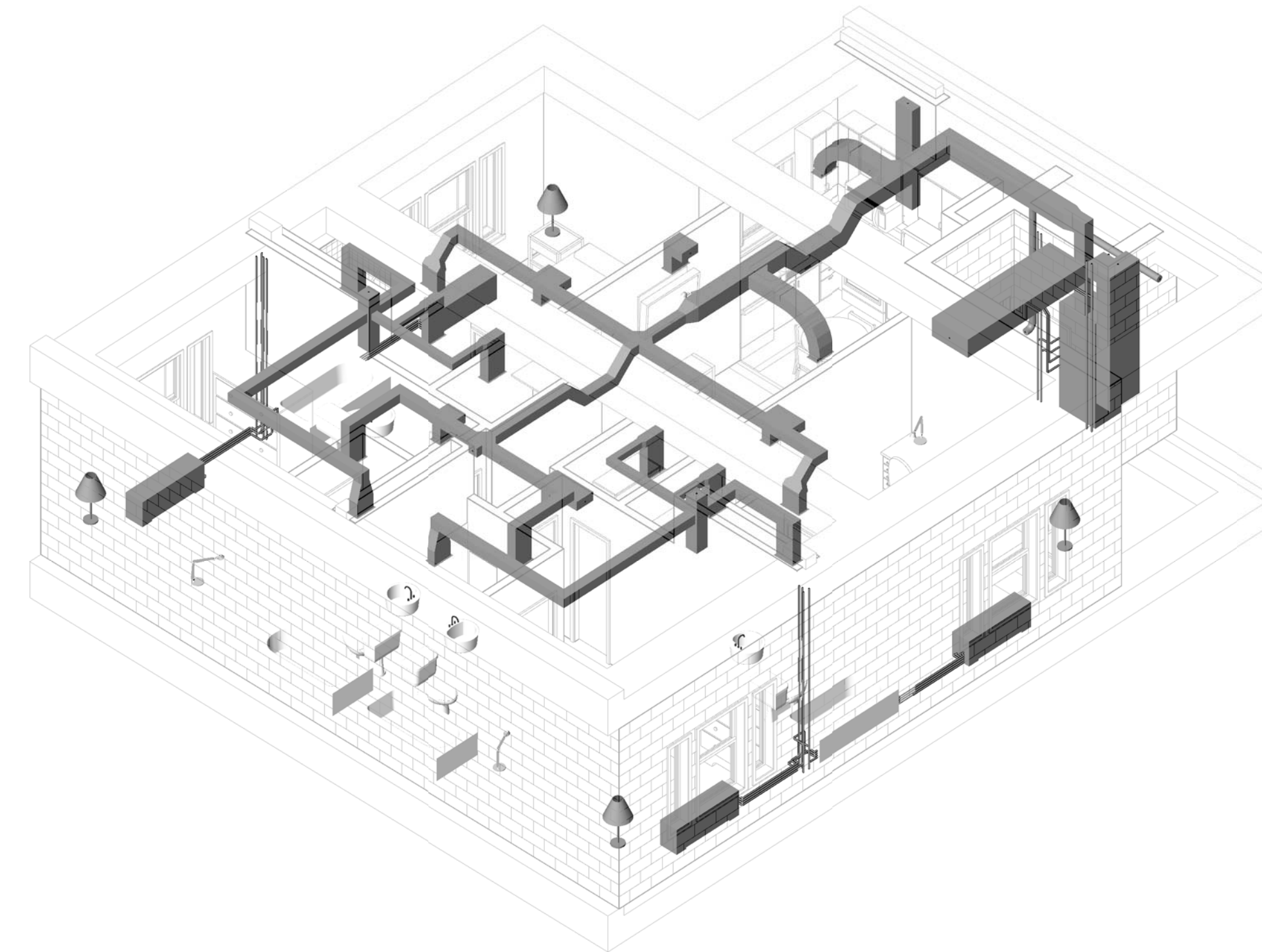
M06



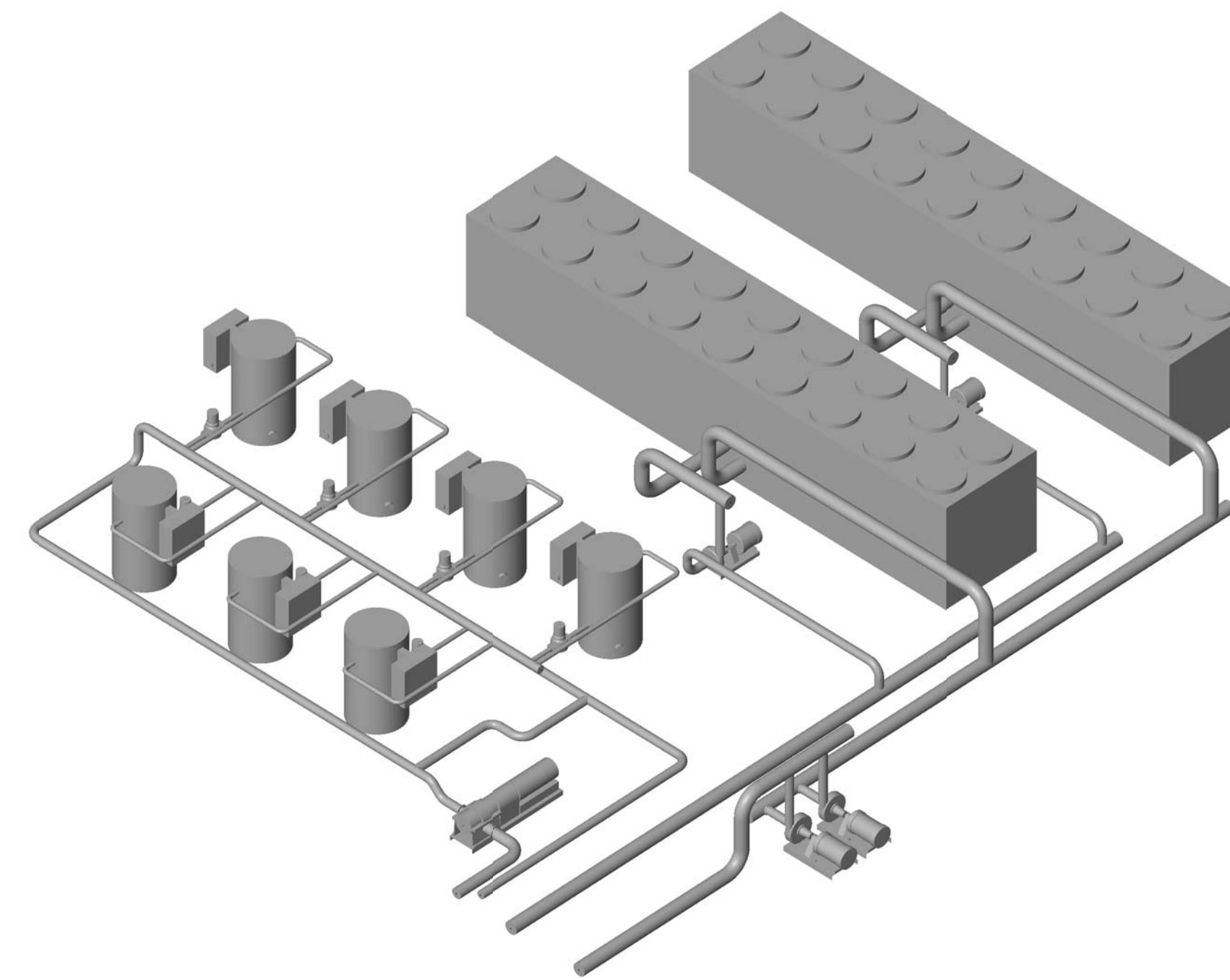
① Plan C - Hot/Humid
1/4" = 1'-0"



③ Mechanical Yard - Hot/Humid
1/8" = 1'-0"



② Plan C - Hot/Humid



④ Mechanical Yard - Hot/Humid

