

MECHANICAL LEGEND

GENERAL NOTES:

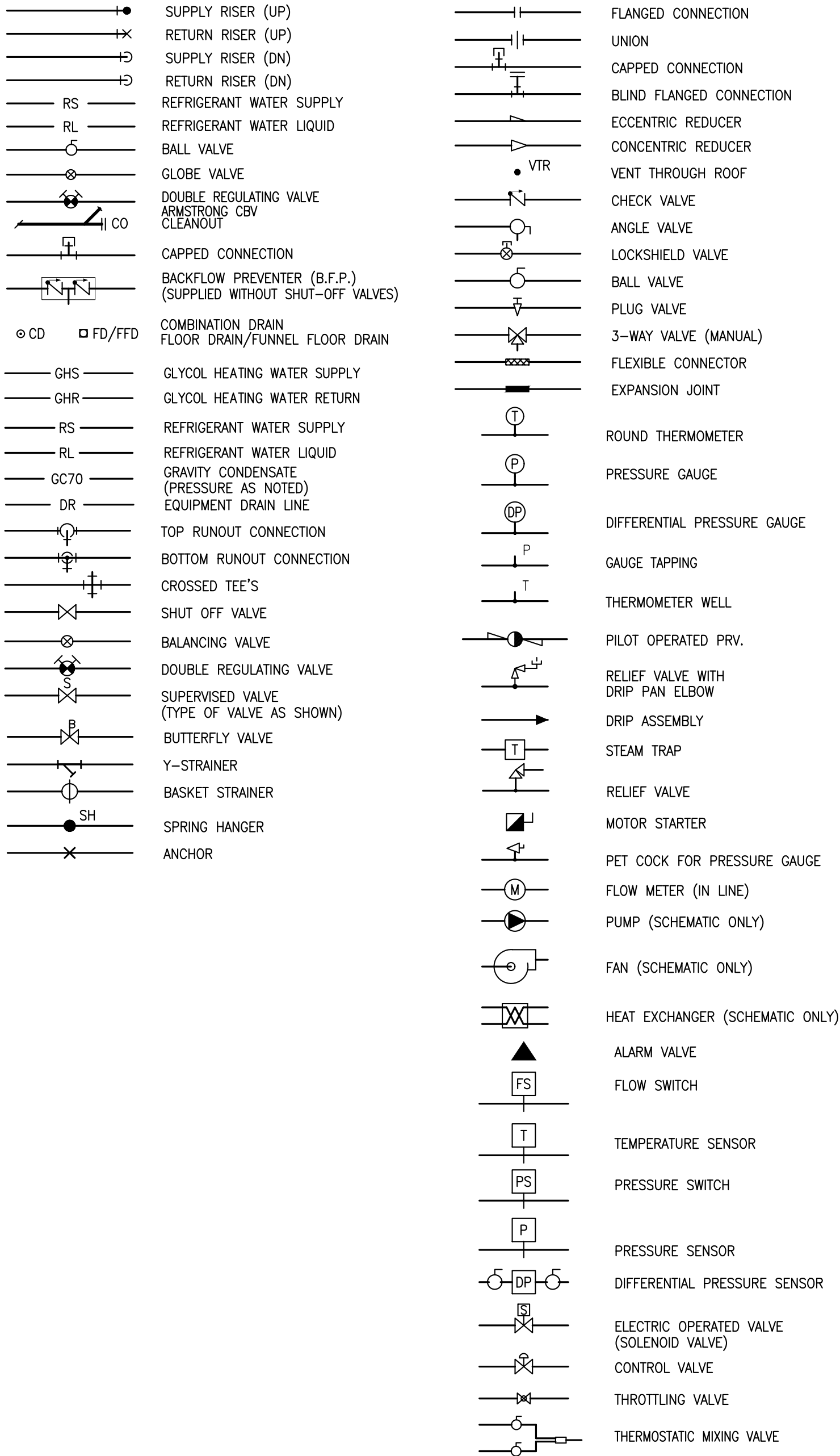
INSTRUCTIONS FOR BIDDERS:

CONTRACTORS ARE TO PROVIDE TWO SEPARATE PRICES AND SCHEDULES FOR THE FOLLOWING OPTIONS.

BASE PRICE: INSTALLING A NEW CONDENSING UNIT ON EACH BUILDING, DEMOUSHING AND REMOVING THE EXISTING AIR HANDLING UNIT HEATING COILS. INSTALLING NEW HEATING COIL AND DX COOLING COIL BLOCK INTO EACH AIR HANDLING UNIT AS PER 1/M003. CONNECTING EXISTING HYDRONIC PIPING TO NEW HEATING COIL. CONNECTING NEW REFRIGERATION PIPING FROM NEW CONDENSING UNIT TO NEW DX COOLING COIL.

ALTERNATE PRICE: INSTALLING A NEW CONDENSING UNIT ON EACH BUILDING. INSTALLING A NEW DX COOLING COIL IN EACH AIR HANDLING UNIT PER 2/M003. CONNECTING NEW REFRIGERATION PIPING FROM NEW CONDENSING UNIT TO NEW DX COOLING COIL.

REFER TO DRAWING PACKAGE FOR DETAILED SCOPE OF WORKS BREAKDOWN FOR EACH OPTION.



CU-XX CONDENSING UNIT NUMBER  
CC-XX COOLING COIL NUMBER  
HC-XX HEATING COIL NUMBER

- MECHANICAL SERVICES SHOWN *SCREENED* (LIGHT LINWEIGHT) ARE EXISTING TO REMAIN.
- BALANCING DAMPERS ARE REQUIRED AT ALL DUCTWORK BRANCH CONNECTIONS. BALANCING DAMPERS SHOWN INDICATE PREFERRED LOCATIONS ONLY. INDICATE LOCATION OF THESE DAMPERS AND ALL BRANCH DUCT BALANCING DAMPERS NOT SHOWN ON THIS DRAWING, ON 1:50 SCALE DUCTWORK INSTALLATION DRAWINGS. INSTALLATION DRAWINGS TO BE SUBMITTED AND APPROVED BY ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- MAXIMUM LENGTH OF FLEXIBLE DUCTWORK IS 5'-0". SPIRAL ROUND DUCT SHALL BE USED FOR PRECEDING SECTIONS WHERE MAXIMUM LENGTH IS EXCEEDED.
- NEW SERVICES TO BE INSTALLED TO PERMIT MAXIMUM CEILING HEIGHTS. PROVIDE ALL OFFSETS TO LIFT SERVICES TO MAXIMUM HEIGHT.

PLUMBING LEGEND

SYMBOL	DESCRIPTION	NOTES / REFERENCE
PLUMBING / MED. GAS / FIRE STAND PIPE RISER DESCRIPTION		
<div>Ø 100 SAN Ø 75 V Ø 100 ST N/8</div>	<div>PIPING SIZE [IN] / DESCRIPTION IN LEFT TO RIGHT OR TOP TO BOTTOM ORDER BUILDING GRIDLINES</div>	

MECHANICAL DRAWING LIST

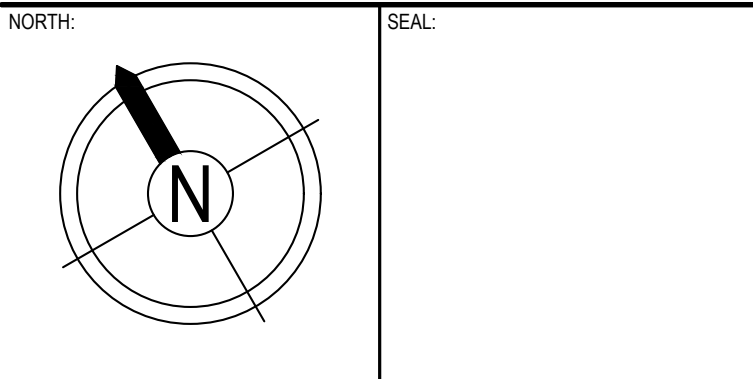
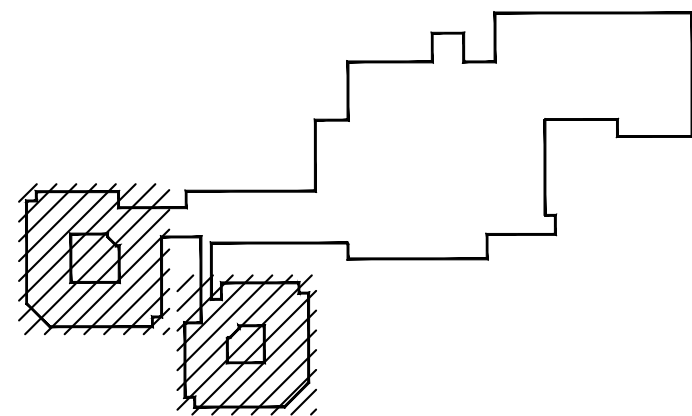
DRAWING NO.	DRAWING TITLE	DISCIPLINE
M000	MECHANICAL DRAWING LIST AND LEGEND	MECHANICAL
M001	SITE PLAN	MECHANICAL
M002	MECHANICAL DETAILS I	MECHANICAL
M003	MECHANICAL DETAILS II	MECHANICAL
M004	SCHEMATICS AND SCHEDULES	MECHANICAL
M100	BUILDING A - ROOF LEVEL - NEW MECHANICAL PLAN	MECHANICAL
M101	BUILDING B - ROOF LEVEL - NEW MECHANICAL PLAN	MECHANICAL

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DRAWING REVISIONS		

03	2023-12-11	ISSUED FOR TENDER
02	2023-11-17	ISSUED FOR 90% CD
01	2023-10-27	ISSUED FOR 90% DD
NO.	DATE (YYYY-MM-DD)	DESCRIPTION
DRAWING ISSUE		

KEYPLAN:



PROJECT:  
FORT ST. JOHN HOSPITAL  
RESIDENTIAL CARE COOLING  
UPGRADE

HHA PROJECT NUMBER: 2230641

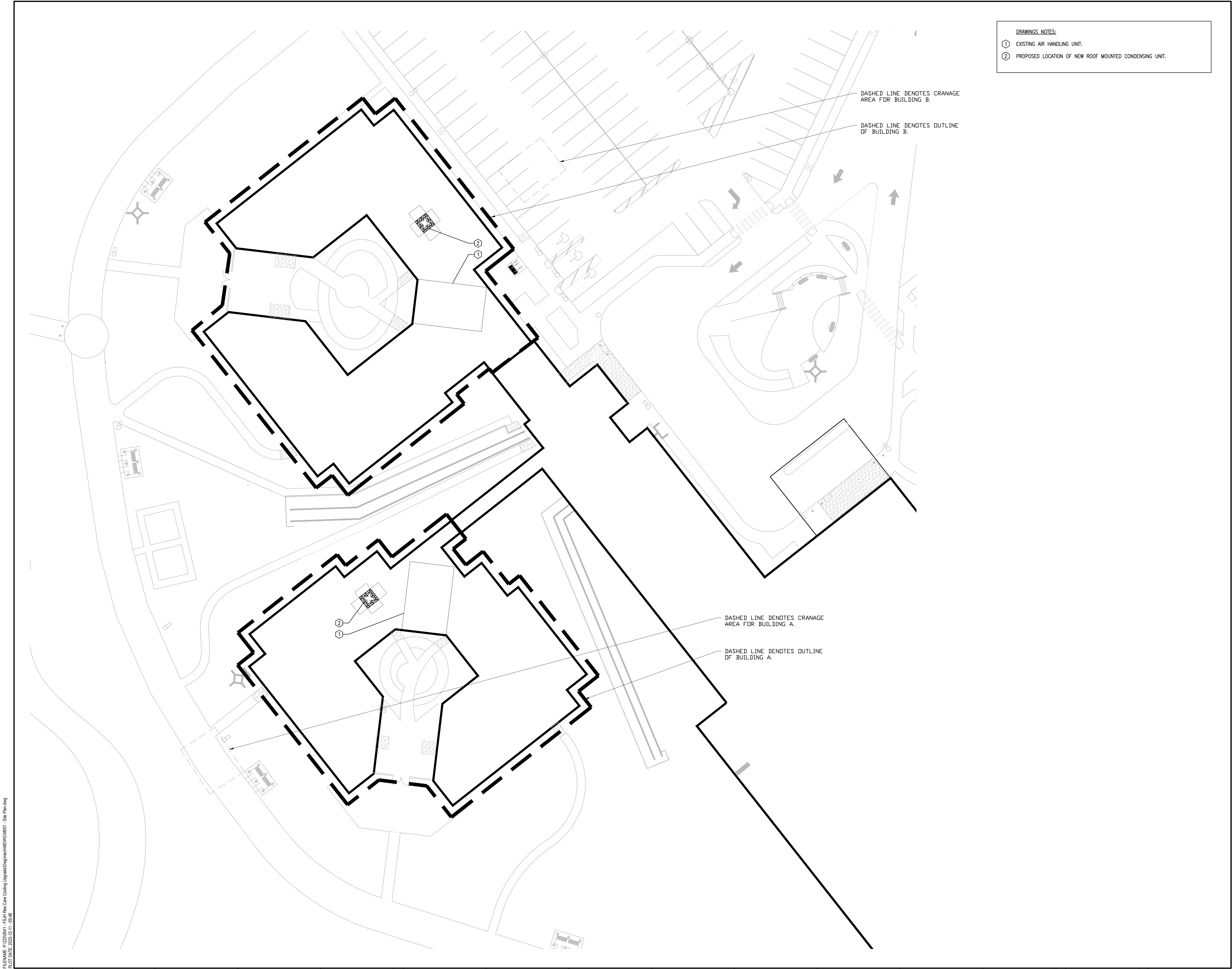
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& DRAWING LIST

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DRAWING NUMBER:			

M000



FILE NAME: P:\2023\204 - FSTN Res Care Cooling Upgrade\Drawings\M001 - Site Plan.dwg  
PLOT DATE: 2023-12-11 09:45



- DRAWINGS NOTES:
- ① EXISTING AIR HANDLING UNIT.
  - ② PROPOSED LOCATION OF NEW ROOF MOUNTED CONDENSING UNIT.

DASHED LINE DENOTES CRANAGE AREA FOR BUILDING B.

DASHED LINE DENOTES OUTLINE OF BUILDING B.

DASHED LINE DENOTES CRANAGE AREA FOR BUILDING A.

DASHED LINE DENOTES OUTLINE OF BUILDING A.



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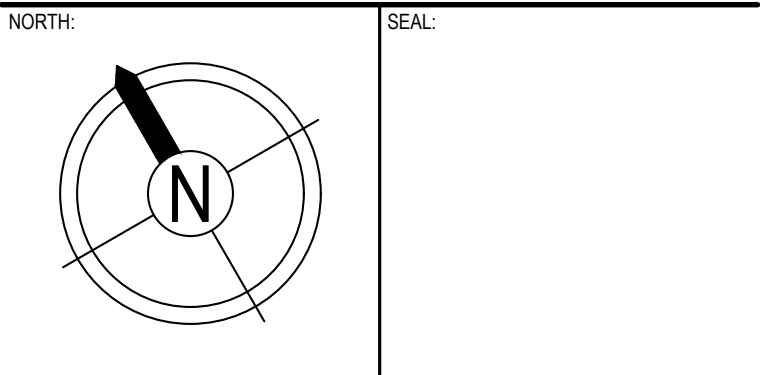
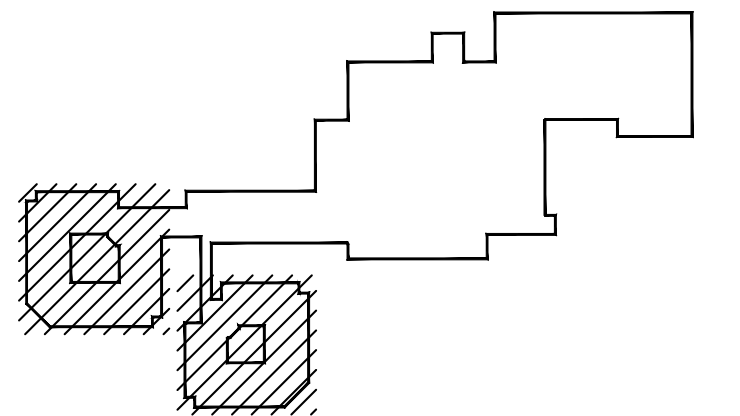
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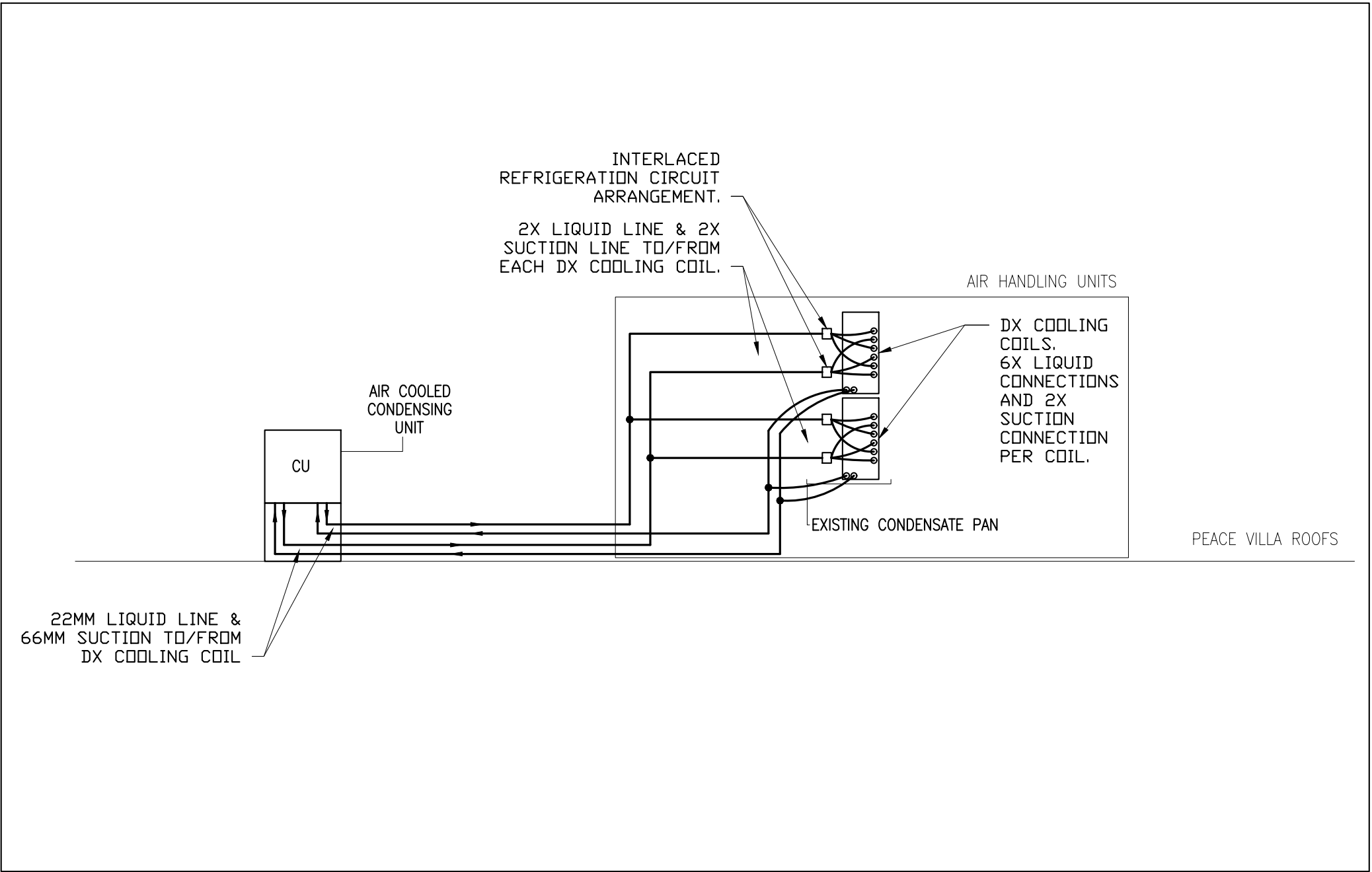
PROJECT:  
**FORT ST. JOHN HOSPITAL  
RESIDENTIAL CARE COOLING  
UPGRADE**

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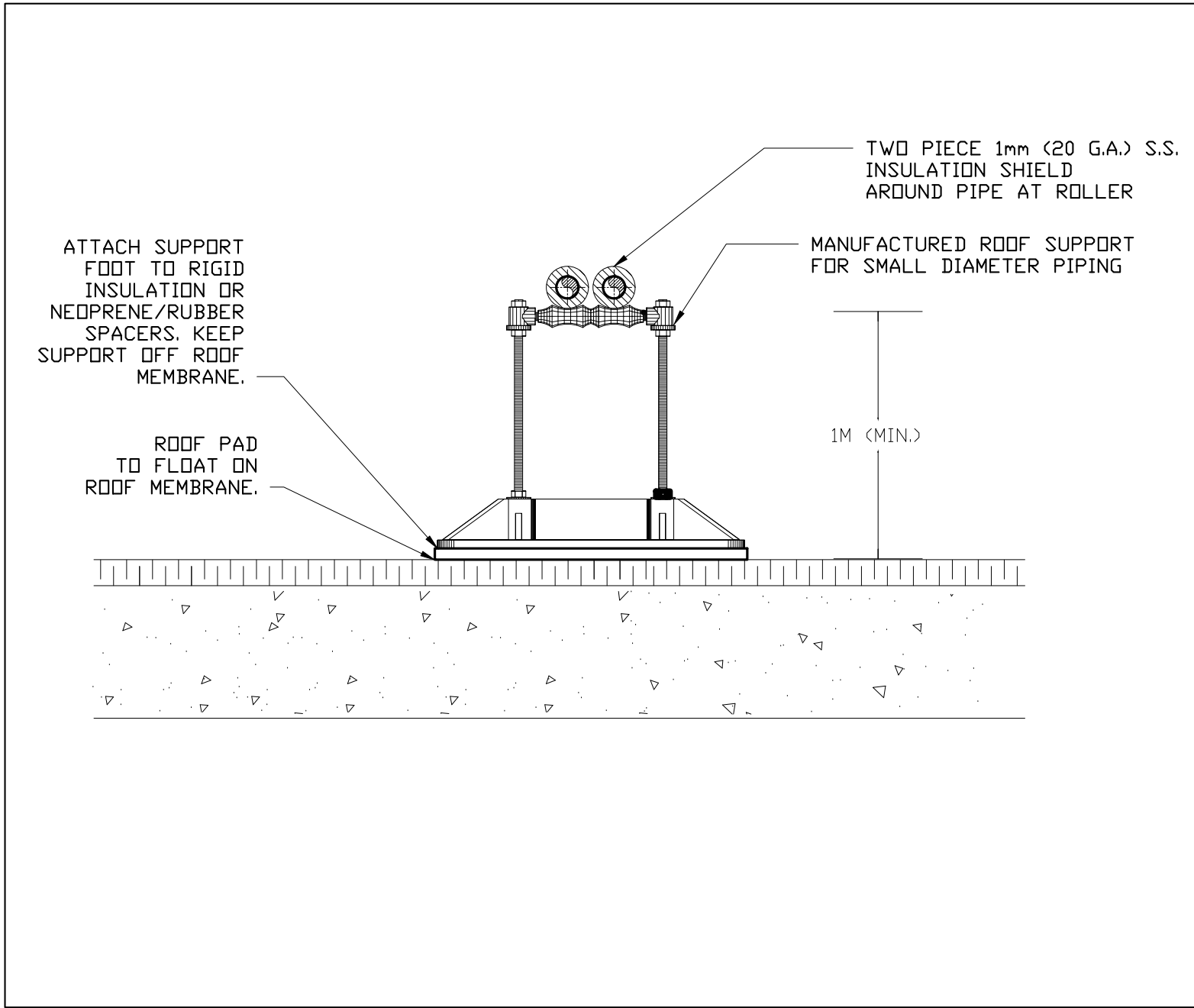
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**SITE PLAN**

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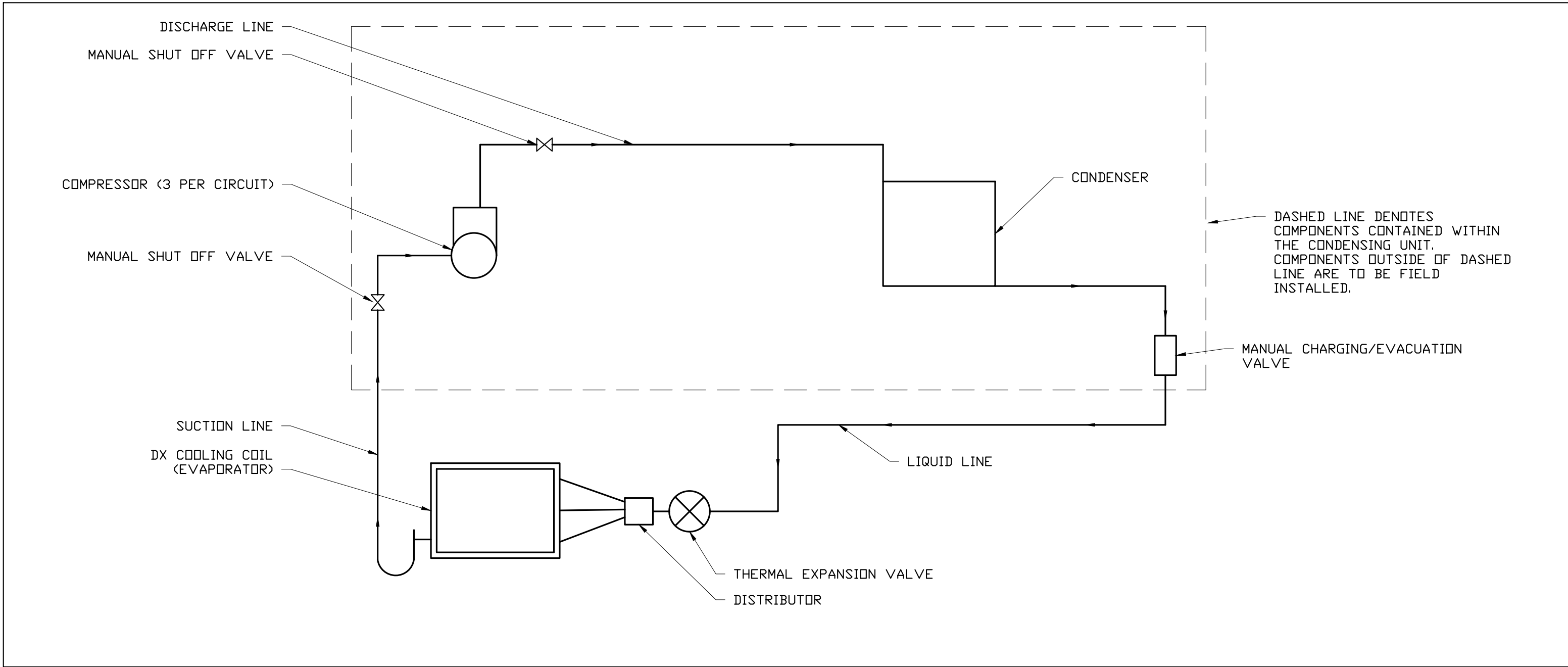
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**M001**



2 CONDENSING UNIT & DX COOLING COIL PIPING DETAIL  
M002 N.T.S.



1 REFRIGERATION PIPING SUPPORT DETAIL  
M002 N.T.S.

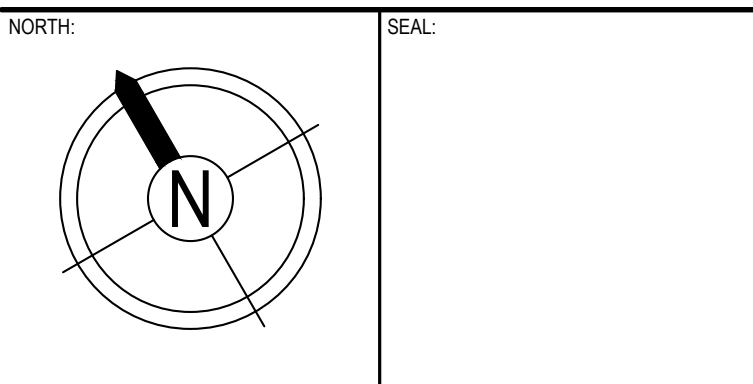
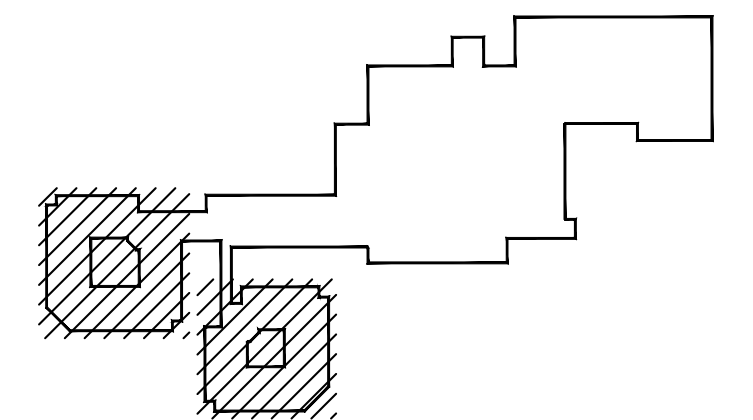


3 REFRIGERATION CIRCUIT SCHEMATIC DETAIL  
M002 N.T.S.

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KEYPLAN:



PROJECT:  
FORT ST. JOHN HOSPITAL  
RESIDENTIAL CARE COOLING  
UPGRADE

HHA PROJECT NUMBER: 2230641  
DRAWING TITLE:  
MECHANICAL DETAILS I

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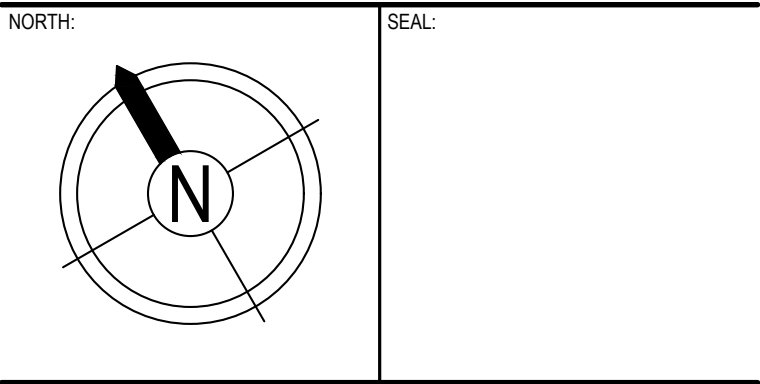
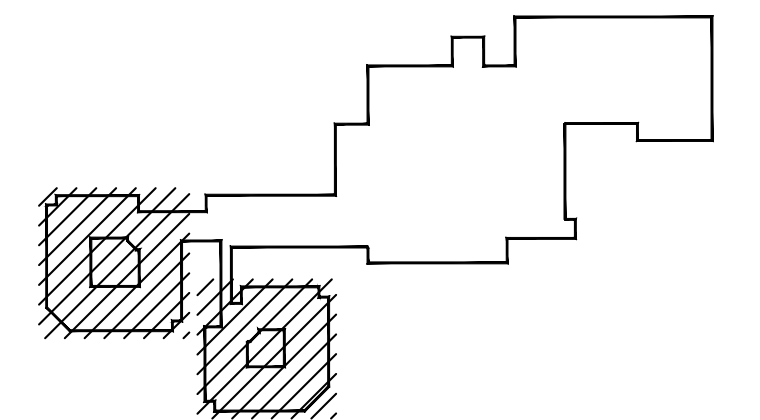
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NO.	DATE (YYYY-MM-DD)	DESCRIPTION
DRAWING REVISIONS		

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DRAWING ISSUE		

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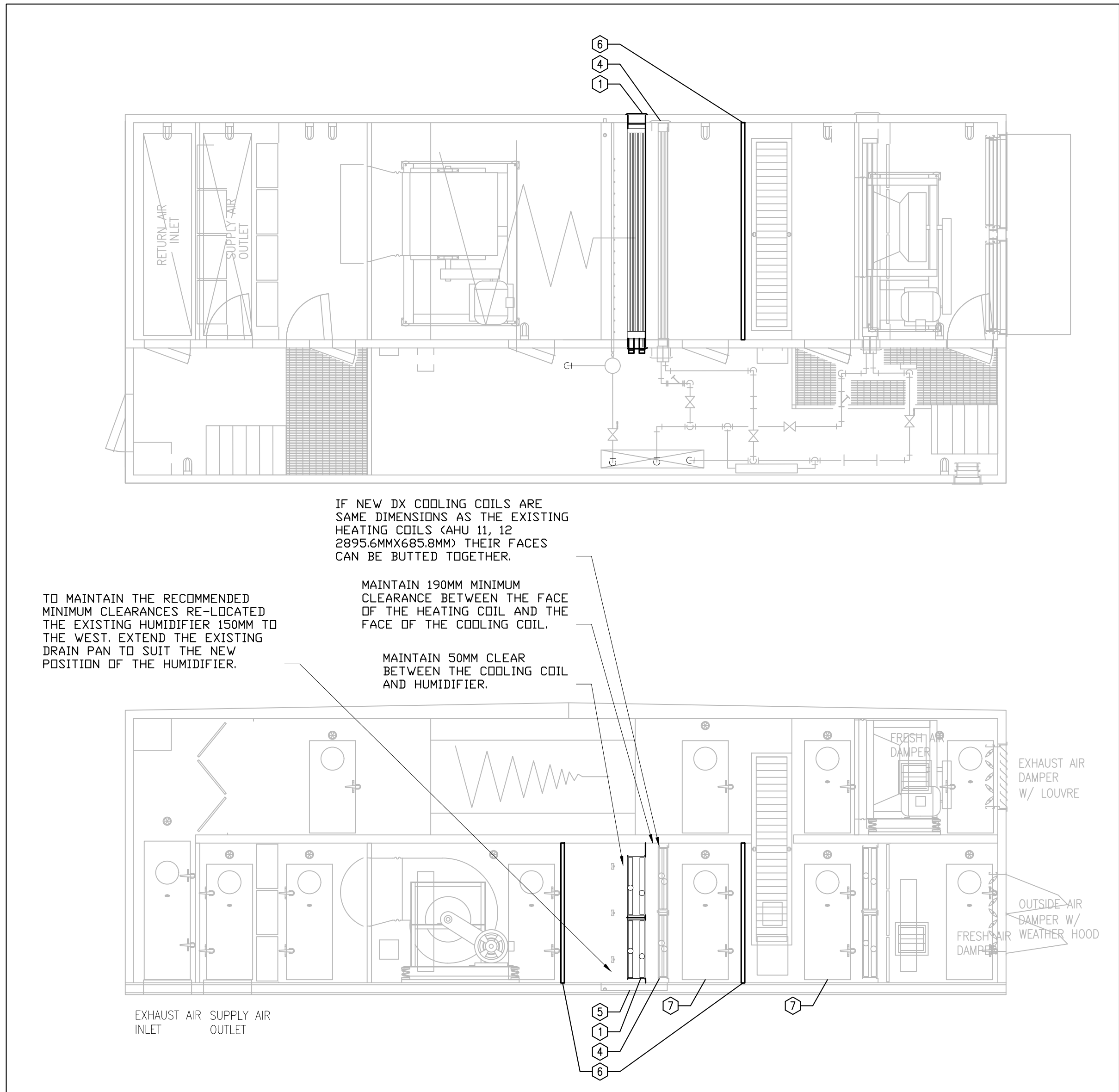


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UPGRADE**

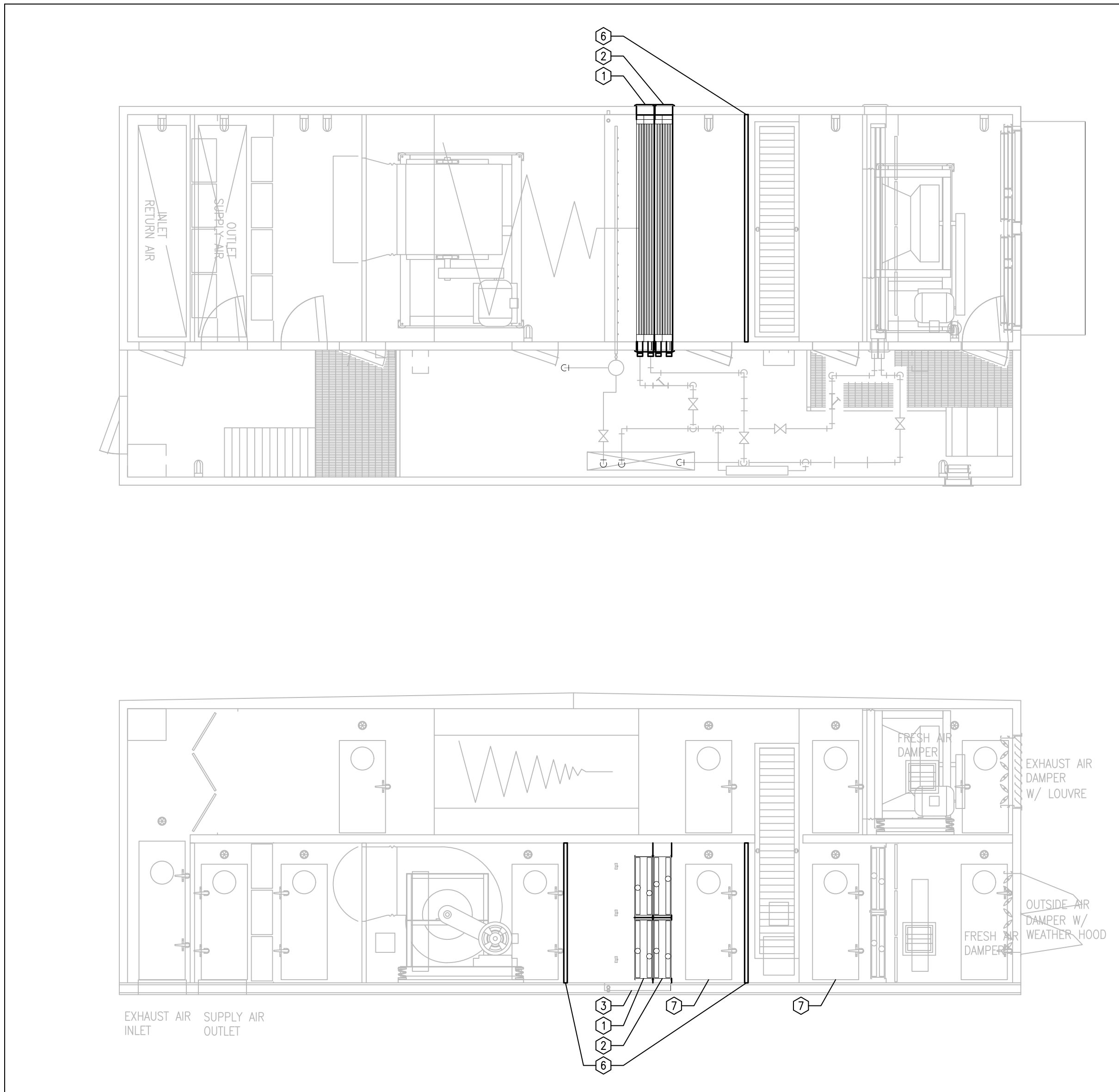
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**MECHANICAL DETAILS II**

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M003



2 ALTERNATE PRICE: AHU-11 & AHU-12 WITH NEW HEATING COIL TYPICAL DETAIL  
M003 1:50



1 BASE PRICE: AHU-11 & AHU-12 WITH NEW HEATING COIL AND DX COOLING TYPICAL DETAIL  
M003 1:50

DEMOLITION AND CONSTRUCTION SEQUENCING NOTES:

BIDDERS ARE TO PROVIDE TWO SEPARATE PRICES AND SCHEDULES FOR THE FOLLOWING OPTIONS.

WORK TO BE PLANNED AND SEQUENCED TO MINIMIZE IMPACT TO THE OPERATION OF THE FACILITY AND LIMIT DOWNTIME.

BASE PRICE:

1. INSTALL A NEW CONDENSING UNIT ON EACH BUILDING. INSTALL REFRIGERATION PIPING UP TO THE AIR HANDLING UNITS, CAP OFF AND SEAL REFRIGERATION PIPING.
2. SHUT DOWN AIR HANDLING UNITS. SEAL OFF EACH SIDE OF THE HEATING COIL AIRTIGHT, SEAL LOCATIONS MARKED IN DETAIL 1/M003 START UP EXHAUST FAN AND RUN AT LOWER CAPACITY. EXHAUST FAN OPERATION TO BE DETERMINED IN CONJUNCTION WITH THE OWNER TO DETERMINE THE APPROPRIATE SET POINT AT THE PLANNED TIME OF SHUT DOWN.
3. DISCONNECT THE EXISTING HEATING COIL CONNECTION AND CAP OFF. DEMOLISH AND REMOVE THE EXISTING HEATING COIL FROM SITE.
4. SLIDE IN NEW DX COOLING COIL AND HEATING COIL AS A BLOCK. REINSTATE AND SEAL. CONNECT THE EXISTING HYDRONIC PIPING TO THE NEW COIL AND THE NEW REFRIGERANT PIPING TO THE NEW DX COOLING COIL.

ALTERNATE PRICE:

1. INSTALL A NEW CONDENSING UNIT ON EACH BUILDING. INSTALL REFRIGERATION PIPING UP TO THE AIR HANDLING UNITS, CAP OFF AND SEAL REFRIGERATION PIPING.
2. SHUT DOWN AIR HANDLING UNITS. SEAL OFF EACH SIDE OF THE HEATING COIL AIRTIGHT, SEAL LOCATIONS MARKED IN DETAIL 2/M003 START UP EXHAUST FAN AND RUN AT LOWER CAPACITY. EXHAUST FAN OPERATION TO BE DETERMINED IN CONJUNCTION WITH THE OWNER TO DETERMINE THE APPROPRIATE SET POINT AT THE PLANNED TIME OF SHUT DOWN.
3. RELOCATE THE EXISTING HUMIDIFIERS TO MAINTAIN THE MINIMUM CLEARANCES BETWEEN THE EXISTING HEATING COIL, NEW DX COOLING COIL AND EXISTING HUMIDIFIER LISTED ABOVE IN DETAIL 2/M003. EXTEND THE DRAIN PAN TO MATCH THE NEW POSITION OF THE HUMIDIFIER. DRIP PAN PROTRUSION DISTANCE UNDER HUMIDIFIER TO WARDS SUPPLY FAN TO MATCH PRE-CONSTRUCTION DISTANCE.
4. SLIDE IN NEW DX COOLING COIL INTO THE AIR HANDLING UNIT. REINSTATE AND SEAL. CONNECT THE NEW REFRIGERANT PIPING TO THE NEW DX COOLING COIL.

DRAWINGS NOTES:

- ① NEW HEATING COIL. RE-USE EXISTING CONNECTIONS.
- ② NEW DX COOLING COIL.
- ③ RE-USE EXISTING DRAIN PAN.
- ④ EXISTING HEATING COIL.
- ⑤ MODIFY EXISTING DRAIN PAN TO NEW EQUIPMENT LAYOUT. EXTEND AS NECESSARY TO SUIT NEW POSITION OF HUMIDIFIER.
- ⑥ PARTITION DURING CONSTRUCTION.
- ⑦ ENSURE AHU DOOR IS OPEN WHILE EXHAUST FAN IS RUNNING.

SPLIT SYSTEM OUTDOOR CONDENSING UNIT SCHEDULE

TAG	COOLING COIL TAG	DESCRIPTION/ SERVICE	LOCATION	MANUFACTURER	MODEL	NOMINAL CAPACITY (TON)	REFRIGERANT	DESIGN AMBIENT TEMP. (°F)	MIN. AMBIENT TEMP. (°C)	SEER	EER	MECHANICAL REMARKS	POWER SUPPLY										STARTER		CONTROLS			OTHER REQUIREMENTS			OTHERS	ELECTRICAL REMARKS			
													MOP (A)	MCA (A)	FLA (A)	VOLTS	PHASE	HZ	FED FROM	EM.	NOM.	SUPPLIED BY		INSTALLED BY		TYPE	MAN.	AUTO	INTERLOCK BY				W.P. DISC. AT MOTOR	DISC. AT MOTOR	F.A. SHUT DOWN
																						DIV. 23	DIV. 26	DIV. 23	DIV. 26				DIV. 23	DIV. 26					
CU-2	CC-311	AHU-11 COOLING	BUILDING B ROOF	DAIKIN	RCS072D	60	R410A		7.2	12.06	10.6	NOTE 1, 2	110	101.5		575	3	60	PP-R1-LL1		●						●	●			DIV. 26				
CU-3	CC-312	AHU-12 COOLING	BUILDING A ROOF	DAIKIN	RCS072D	60	R410A		7.2	12.06	10.6	NOTE 1, 2	110	101.5		575	3	60	PP-R0-DD1		●						●	●			DIV. 26				
NOTES: 1. COOLING ONLY. 2. UNIT WEIGHT 1,601 KG MAXIMUM. 3. MOUNTED ON VIBRATION RESTRAINED SPRING ISOLATORS. TYPE FLSS.																																			

HYDRONIC HEATING COIL

TAG	OUTDOOR UNIT TAG	DESCRIPTION/ SERVICE	LOCATION	MANUFACTURER	MODEL	DESIGN MAX AIRFLOW (L/S)	E.S.P. (PA)	WATER P.D. (KPA)	TOTAL CAPACITY (KW)	E.A.T DB (°F)	E.W.T. (°F)	L.A.T. DB (°F)	L.W.T. (°F)	MECHANICAL REMARKS
HC-311(A/B)	CU-2	AHU-11 HEATING	AHU-11	DAIKIN	5WS1302B	10.406	54.7	3.9	328.7	-12.6	68	13.2	34.4	1
HC-312(A/B)	CU-3	AHU-12 HEATING	AHU-12	DAIKIN	5WH1202B	9.406	52.2	40.9	421.4	-22.9	68	13.7	34.2	1
NOTES: 1. 55% GLYCOL CONCENTRATION.														

DX COOLING COIL

TAG	OUTDOOR UNIT TAG	DESCRIPTION/ SERVICE	LOCATION	MANUFACTURER	MODEL	DESIGN MAX AIRFLOW (CFM)	E.S.P. (PA)	NOMINAL TONNES	TOTAL CAPACITY (TONS)	SENSIBLE CAPACITY (TONS)	E.A.T DB/WB (°C)	L.A.T DB/WB (°C)	MECHANICAL REMARKS
CC-311(A/B)	CU-2	AHU-11 COOLING	AHU-11	DAIKIN	5EJ1004B	10.406	131.8		60.0	41.8	26.7/19.4	15.1/13.7	NOTE 1
CC-312(A/B)	CU-3	AHU-12 COOLING	AHU-12	DAIKIN	5EJ0706B	9.406	159.3		60.0	40.8	26.7/19.7	14.2/12.9	NOTE 1
NOTES: 1. TYPE "FD" REFRIGERANT COOLING COIL.													

INSTRUCTIONS FOR BIDDERS:  
CONTRACTORS ARE TO PROVIDE TWO SEPARATE PRICES FOR THE FOLLOWING OPTIONS.  
BASE PRICE: INCLUDES PRICING FOR THE CONDENSING UNITS, DX COOLING COILS, AND HEATING COILS.  
ALTERNATE PRICE: INCLUDES PRICING FOR THE CONDENSING UNITS AND DX COOLING COILS.



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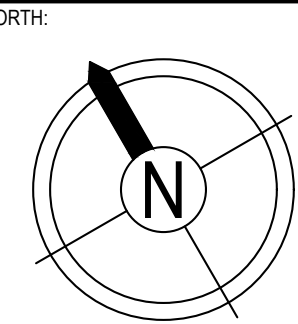
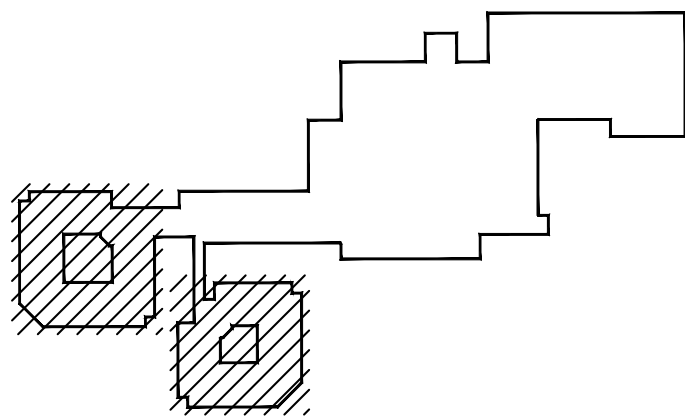
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KEYPLAN:



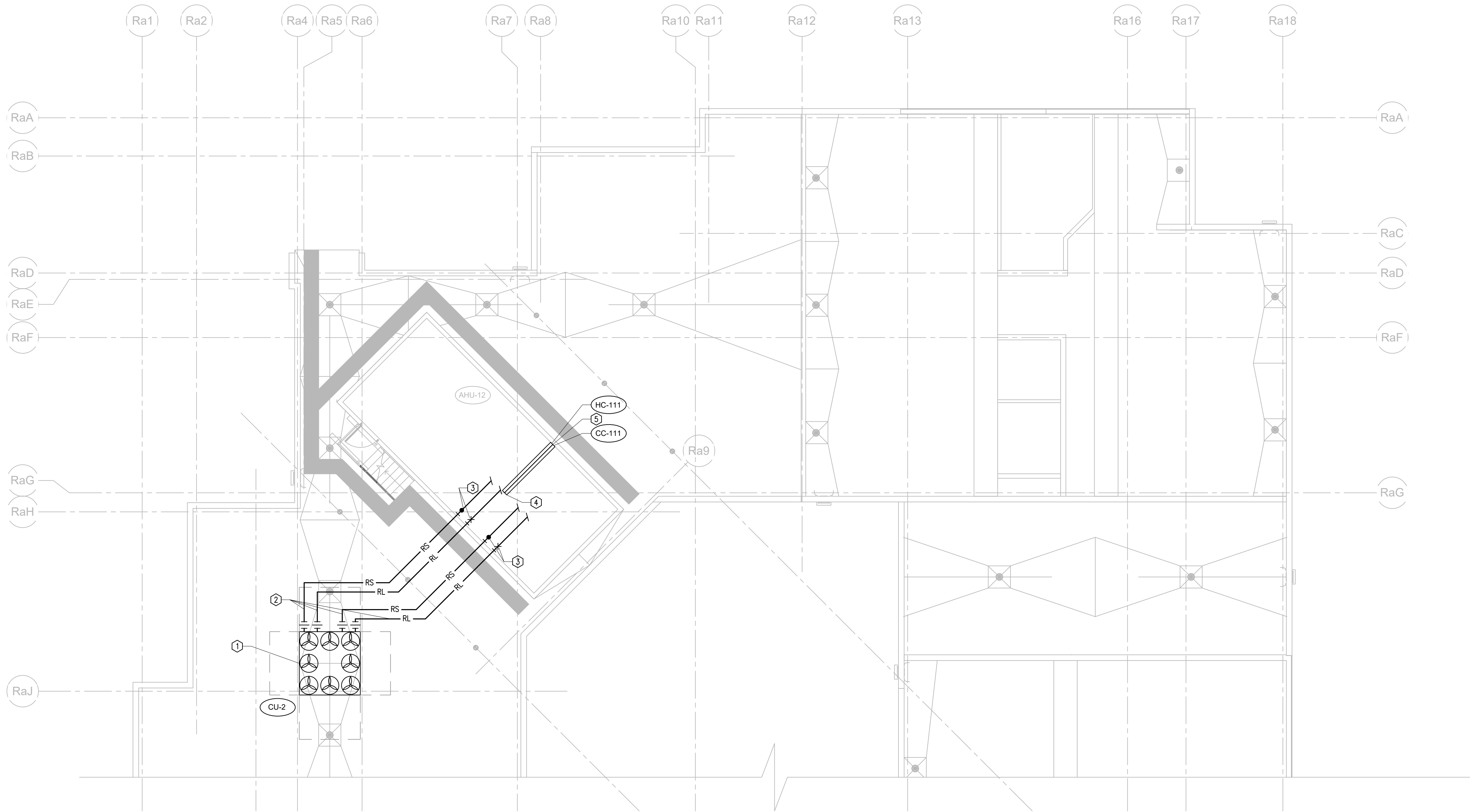
PROJECT:  
FORT ST. JOHN HOSPITAL  
RESIDENTIAL CARE COOLING  
UPGRADE  
HHA PROJECT NUMBER: 2230641  
DRAWING TITLE:  
SCHEMATICS &  
SCHEDULES

PAGE SIZE:	ARCH D	DRAWN BY:	J.OS
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M004



FILENAME: P:\2230541 - FSJ St. John's Care Cooling Upgrade\Drawings\Mech\M100 - Building A - Roof Level - New Plan.dwg  
PLOT DATE: 2023-11-11 09:09



- DRAWINGS NOTES:**
- 1 NEW ROOF MOUNTED CONDENSING UNIT. CONDENSING UNIT MOUNTED ON 1M HIGH ROOF CURB, BY STRUCTURAL, REFER TO STRUCTURAL DRAWINGS. UNIT OPERATING WEIGHT 1,601 KG. DASHED LINE INDICATES REQUIRED CLEARANCE.
  - 2 22MM LIQUID & 66MM SUCTION REFRIGERANT LINES TO/FROM DX COOLING COIL TO/FROM CU UNIT. SUPPORT AS PER DETAIL 1/M002.
  - 3 SUPPLY/RETURN REFRIGERANT PIPELINES TO PENETRATE INTO THE BOTTOM OF THE AIR HANDLING UNIT ENCLOSURE.
  - 4 CONNECT EXISTING HYDRONIC PIPING TO NEW HEATING COIL AND CONNECT NEW REFRIGERANT PIPES TO DX COOLING COIL (BASE PRICE) OR CONNECT REFRIGERANT PIPES TO DX COOLING COIL (ALTERNATE PRICE) PER DETAIL 2/M002.
  - 5 SLIDE DX COOLING COIL AND HEATING COIL BLOCK (BASE PRICE) OR SLIDE DX COOLING COIL (ALTERNATE PRICE) INTO POSITION THROUGH INTO AHU. SEAL AND REINSTATE.



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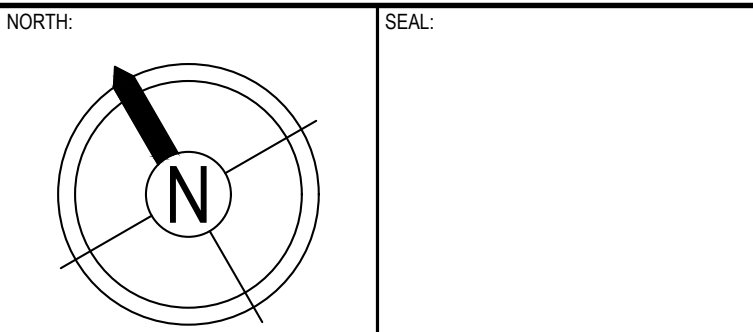
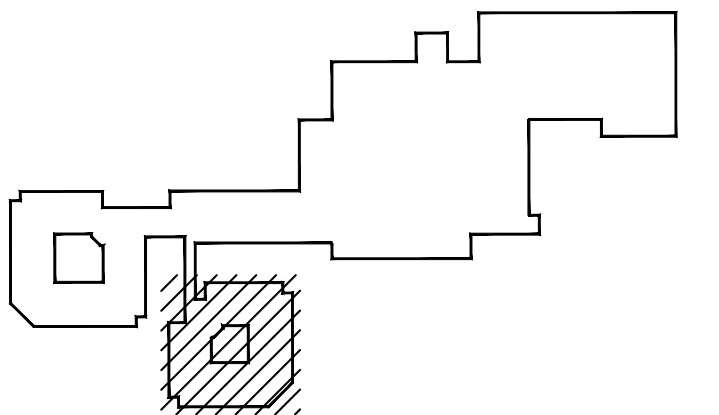
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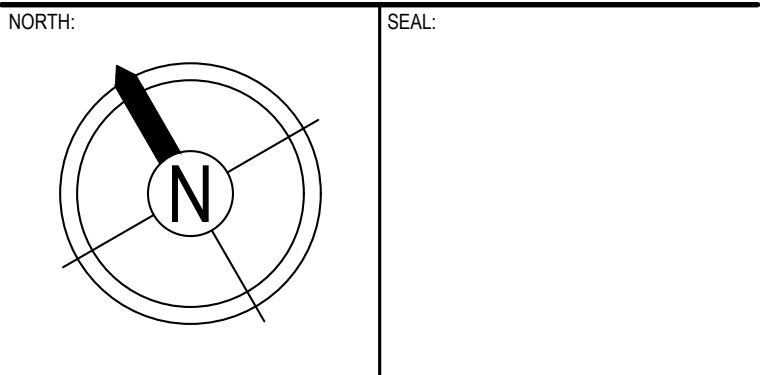
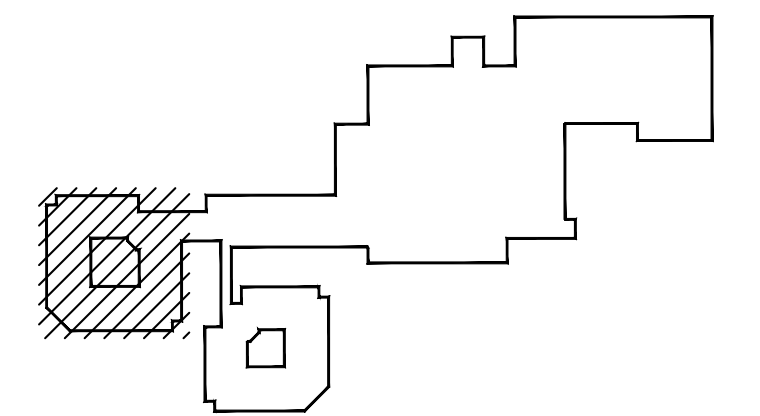
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**BUILDING A - ROOF LEVEL - NEW  
MECHANICAL PLAN**

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**M100**

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DRAWING TITLE:  
BUILDING B - ROOF LEVEL - NEW  
MECHANICAL PLAN

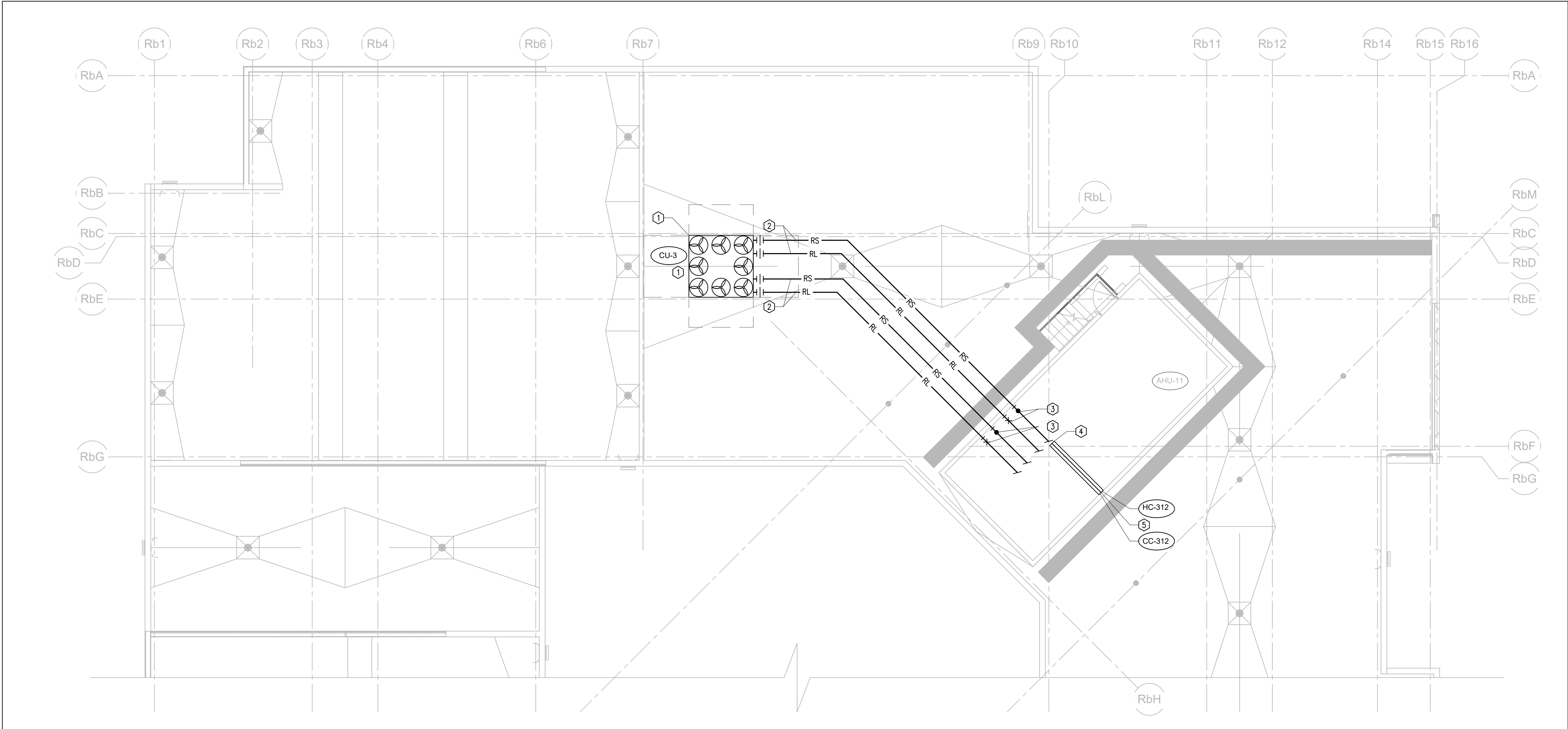
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M101

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- 22MM LIQUID & 66MM SUCTION REFRIGERANT LINES TO/FROM DX COOLING COIL TO/FROM CU UNIT. SUPPORT AS PER DETAIL 1/M002.
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- CONNECT EXISTING HYDRONIC PIPING TO NEW HEATING COIL AND CONNECT NEW REFRIGERANT PIPES TO DX COOLING COIL (BASE PRICE) OR CONNECT REFRIGERANT PIPES TO DX COOLING COIL (ALTERNATE PRICE) PER DETAIL 2/M002.
- SLIDE DX COOLING COIL AND HEATING COIL BLOCK (BASE PRICE) OR SLIDE DX COOLING COIL (ALTERNATE PRICE) INTO POSITION THROUGH INTO AHU. SEAL AND REINSTATE.



1 BUILDING B - ROOF LEVEL - NEW MECHANICAL PLAN  
M101 N.T.S.

POSITION OF NEW ROOF MOUNTED  
CONDENSING UNIT.

REFRIGERATION PIPING TO/FROM  
CONDENSING UNIT TO/FROM DX  
COOLING COIL IN AIR HANDLING  
UNIT



2 CONDENSING UNIT ON BUILDING B ROOF  
M101 N.T.S.