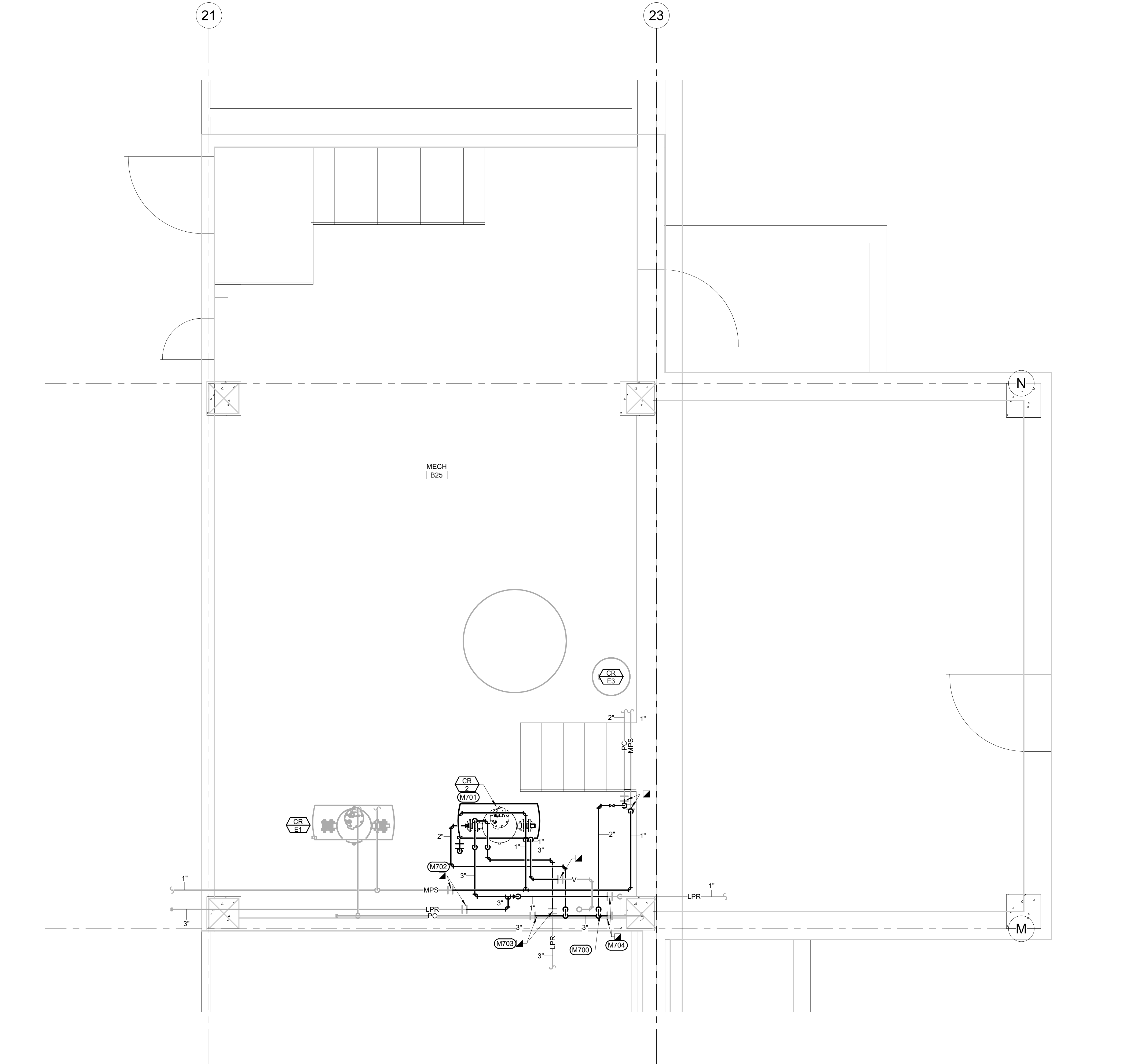


one eighth inch = one foot
one quarter inch = one foot
three eighths inch = one foot
one half inch = one foot
three quarters inch = one foot
one and one half inches = one foot
three inches = one foot

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1 PARTIAL BASEMENT HVAC PIPING PLAN
1/2" = 1'-0"

- GENERAL MECHANICAL NOTES**
- A. CONTRACTOR SHALL COORDINATE ALL PIPE ROUTING WITH ALL OTHER TRADES. PROVIDE ALL ADDITIONAL OFFSETS AS REQUIRED TO COMPLETE INSTALLATION.
 - B. ISOLATE ALL COPPER PIPES FROM BEARING ON FERROUS HANGERS, ETC. WITH ELECTRICALLY INSULATING MATERIALS AS SPECIFIED. USE DIELECTRIC UNIONS IN CONNECTION OF ALL COPPER PIPING TO FERROUS PIPING AS SPECIFIED.
 - C. WORK ON THIS PROJECT WILL BE PHASED. THE MECHANICAL CONTRACTOR WILL BE RESPONSIBLE FOR ENSURING THAT AREAS OUTSIDE THE CURRENT PHASE OF WORK CONTINUE TO BE SERVED BY HEATING, COOLING, ETC. SO AS NOT TO INTERRUPT OWNER WORK FLOW. ALL OUTAGES SHALL BE COORDINATED IN ADVANCE WITH OWNER AND WILL BE REQUIRED TO OCCUR DURING TIMES OF LOW USE.
- MECHANICAL SPECIFIC NOTES**
- M700. CONNECT NEW 2" PC FROM CONDENSATE RETURN PUMP OR E3 TO THE TOP OF THE PUMPED CONDENSATE MAIN.
 - M701. REFER TO 14ML101, CONDENSATE PUMP SCHEMATIC.
 - M702. CONNECT NEW 1" MPS (MOTIVE STEAM) AND 3" LPR PIPING TO EXISTING WITHIN THIS LOCATION. CONTRACTOR TO CONFIRM SIZE OF EXISTING PIPING.
 - M703. CONNECT NEW 3" PC AND 3" LPR PIPING TO EXISTING WITHIN THIS LOCATION. CONTRACTOR TO CONFIRM SIZE OF EXISTING PIPING.
 - M704. CONNECT NEW 3" PC AND 1" LPR PIPING TO EXISTING WITHIN THIS LOCATION. CONTRACTOR TO CONFIRM SIZE OF EXISTING PIPING.

Revision#	Description	Date:

CONSULTANTS

STRUCTURAL:
Albertson Engineering, Inc.
3302 W. Main St. #C
Rapid City, South Dakota 57702
Phone: 605-343-9606

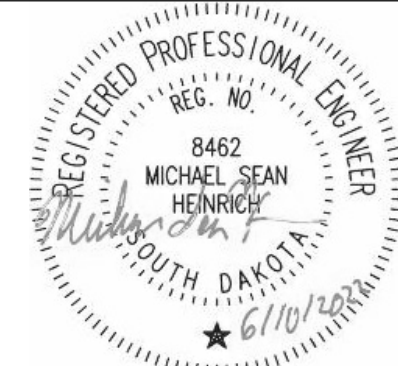
MECHANICAL / ELECTRICAL / PLUMBING:
WPE
West Plains Engineering, Inc.
1750 Rand Road
Rapid City, South Dakota 57702
Phone: 605-348-7455

ARCHITECT OF RECORD

A/E:
STONE GROUP ARCHITECTS, INC.
319 N. MAIN AVE.
SIOUX FALLS, SD 57104
605.271.1144
TODD STONE, AIA



STAMP



Office of
Construction
and Facilities
Management



U.S. Department
of Veterans Affairs

Drawing Title
PARTIAL BASEMENT HVAC PIPING PLAN

Approved:

Phase
CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title
RENOVATE AND CONSOLIDATE
INFANTIENT FUNCTIONS

Location
FORT MEADE, SOUTH DAKOTA

Issue Date
06/10/2022

Checked
MSH

Drawn
MMM

Project Number
VA #568-14-110
WPE #BR21020
Building Number
113

Drawing Number
MP001

one eighth inch = one foot
one quarter inch = one foot
three eighths inch = one foot
one half inch = one foot
three quarters inch = one foot
one inch = one foot
one and one half inches = one foot
two inches = one foot
three inches = one foot

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Revision#	Description	Date:

CONSULTANTS

STRUCTURAL:

Albertson Engineering, Inc.
3302 W. Main St. #C
Rapid City, South Dakota 57702
Phone: 605-343-9606

MECHANICAL / ELECTRICAL / PLUMBING:

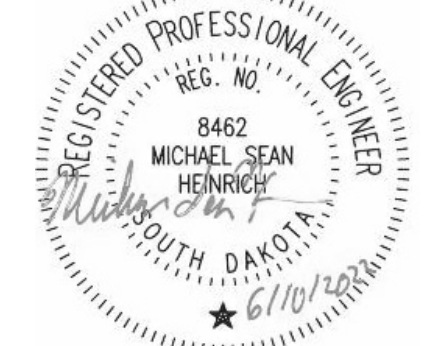
West Plains Engineering, Inc.
1750 Rand Road
Rapid City, South Dakota 57702
Phone: 605-348-7455

ARCHITECT OF RECORD

A/E:
STONE GROUP ARCHITECTS, INC.
319 N. MAIN AVE.
SIOUX FALLS, SD 57104
605.271.1144
TODD STONE, AIA



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Office of Construction and Facilities Management

 U.S. Department of Veterans Affairs

Drawing Title

FIRST FLOOR AREA C HVAC PIPING PLAN

Approved:

Phase

CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title

RENOVATE AND CONSOLIDATE INPATIENT FUNCTIONS

Location

FORT MEADE, SOUTH DAKOTA

Issue Date

06/10/2022

Checked

MSH

Drawn

MMM

Project Number

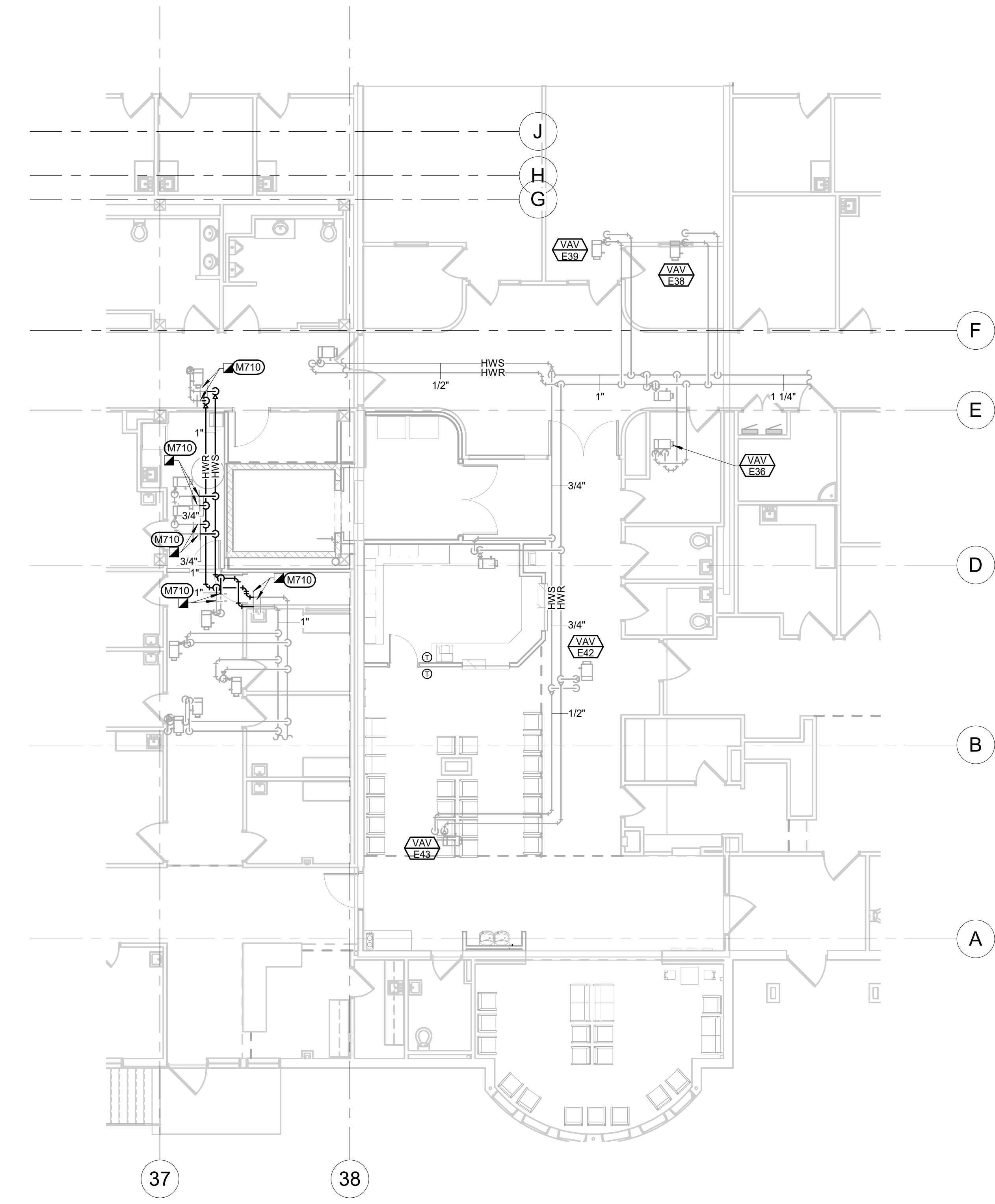
VA #568-14-110
WPE #BR21020

Building Number

113

Drawing Number

MP101



1 FIRST FLOOR AREA C HVAC PIPING PLAN
1/8" = 1'-0"

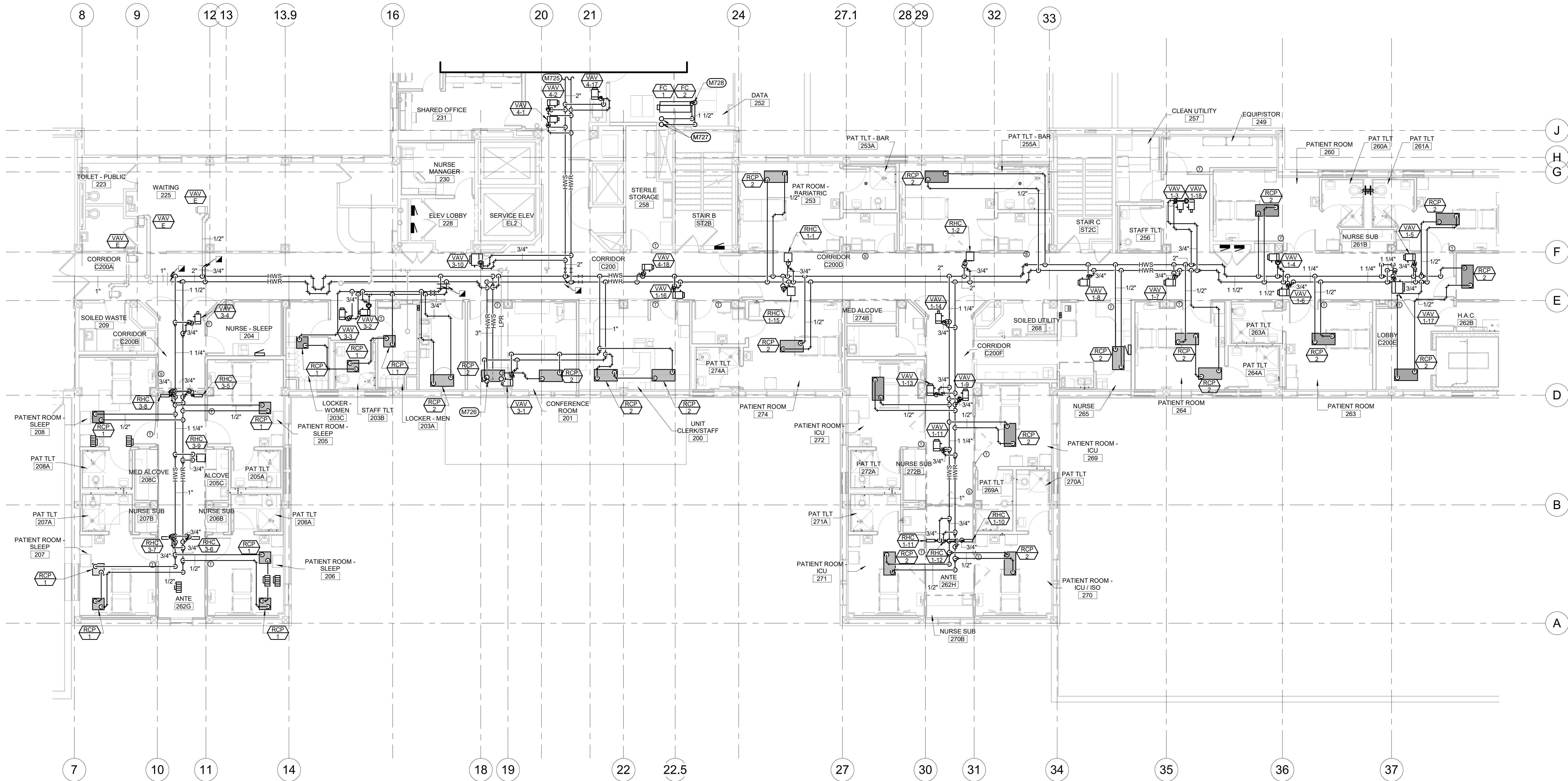
- GENERAL MECHANICAL NOTES
- A. CONTRACTOR SHALL COORDINATE ALL PIPE ROUTING WITH ALL OTHER TRADES. PROVIDE ALL ADDITIONAL OFFSETS AS REQUIRED TO COMPLETE INSTALLATION.

B. ISOLATE ALL COPPER PIPES FROM BEARING ON FERROUS HANGERS, ETC. WITH ELECTRICALLY INSULATING MATERIALS AS SPECIFIED. USE DIELECTRIC UNIONS IN CONNECTION OF ALL COPPER PIPING TO FERROUS PIPING AS SPECIFIED.

C. WORK ON THIS PROJECT WILL BE PHASED. THE MECHANICAL CONTRACTOR WILL BE RESPONSIBLE FOR ENSURING THAT AREAS OUTSIDE THE CURRENT PHASE OF WORK CONTINUE TO BE SERVED BY HEATING, COOLING, ETC. SO AS NOT TO INTERRUPT OWNER WORK FLOW. ALL OUTAGES SHALL BE COORDINATED IN ADVANCE WITH OWNER AND WILL BE REQUIRED TO OCCUR DURING TIMES OF LOW USE.
- MECHANICAL SPECIFIC NOTES
- M710. CONNECT NEW HWS AND HWR PIPING TO EXISTING WITHIN THIS LOCATION.

one eighth inch = one foot
one quarter inch = one foot
one half inch = one foot
three quarters inch = one foot
one inch = one foot
one and one half inches = one foot
two inches = one foot
three inches = one foot

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1 SECOND FLOOR AREA A HVAC PIPING PLAN
1/8" = 1'-0"

GENERAL MECHANICAL NOTES

- A. CONTRACTOR SHALL COORDINATE ALL PIPE ROUTING WITH ALL OTHER TRADES. PROVIDE ALL ADDITIONAL OFFSETS AS REQUIRED TO COMPLETE INSTALLATION.
- B. ISOLATE ALL COPPER PIPES FROM BEARING ON FERROUS HANGERS, ETC. WITH ELECTRICALLY INSULATING MATERIALS AS SPECIFIED. USE DIELECTRIC UNIONS IN CONNECTION OF ALL COPPER PIPING TO FERROUS PIPING AS SPECIFIED.
- C. WORK ON THIS PROJECT WILL BE PHASED. THE MECHANICAL CONTRACTOR WILL BE RESPONSIBLE FOR ENSURING THAT AREAS OUTSIDE THE CURRENT PHASE OF WORK CONTINUE TO BE SERVED BY HEATING, COOLING, ETC. SO AS NOT TO INTERRUPT OWNER WORK FLOW. ALL OUTAGES SHALL BE COORDINATED IN ADVANCE WITH OWNER AND WILL BE REQUIRED TO OCCUR DURING TIMES OF LOW USE.

MECHANICAL SPECIFIC NOTES

- M725 REFER TO MP103, SECOND FLOOR AREA B & C HVAC PIPING PLAN, FOR CONTINUATION.
- M726 3" HWS AND HWR PIPING DOWN FROM PENTHOUSE. REFER TO MP104, HVAC PIPING PLAN, FOR CONTINUATION.
- M727 1-1/2" CWS AND CWR PIPING DOWN FROM PENTHOUSE. REFER TO MP104, HVAC PIPING PLAN, FOR CONTINUATION.
- M728 PROVIDE 3/4" CWS AND CWR PIPING TO EACH OF THE (2) FAN COILS. DO NOT INSTALL CHILLED WATER PIPING ABOVE SERVER RACKS.

Revision#	Description	Date:

CONSULTANTS

STRUCTURAL:
Albertson Engineering, Inc.
3302 W. Main St. #C
Rapid City, South Dakota 57702
Phone: 605-343-9606

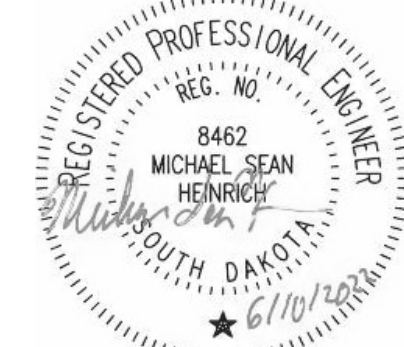
MECHANICAL / ELECTRICAL / PLUMBING:
West Plains Engineering, Inc.
1750 Rand Road
Rapid City, South Dakota 57702
Phone: 605-348-7455

ARCHITECT OF RECORD

A/E:
STONE GROUP ARCHITECTS, INC.
319 N. MAIN AVE.
SIOUX FALLS, SD 57104
605.271.1144
TODD STONE, AIA



STAMP



Office of
Construction
and Facilities
Management



U.S. Department
of Veterans Affairs

Drawing Title
SECOND FLOOR AREA A HVAC PIPING PLAN

Approved:

Phase
CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title
RENOVATE AND CONSOLIDATE
INFANTILE FUNCTIONS

Location
FORT MEADE, SOUTH DAKOTA

Issue Date
06/10/2022

Checked
MSH

Drawn
MMM

Project Number
VA #568-14-110
WPE #BR21020
Building Number
113

Drawing Number
MP102

Three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot

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Revision#	Description	Date:

CONSULTANTS

STRUCTURAL:

Albertson Engineering, Inc.
3302 W. Main St. #C
Rapid City, South Dakota 57702
Phone: 605-343-9606

MECHANICAL / ELECTRICAL / PLUMBING:

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Phone: 605-348-7455

ARCHITECT OF RECORD

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605.271.1144
TODD STONE, AIA

STONE GROUP
ARCHITECTS

STAMP

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title

SECOND FLOOR AREA B & C HVAC PIPING PLAN

Approved:

Phase

CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title

RENOVATE AND CONSOLIDATE INPATIENT FUNCTIONS

Location

FORT MEADE, SOUTH DAKOTA

Issue Date

06/10/2022

Checked

MSH

Drawn

MMM

Project Number

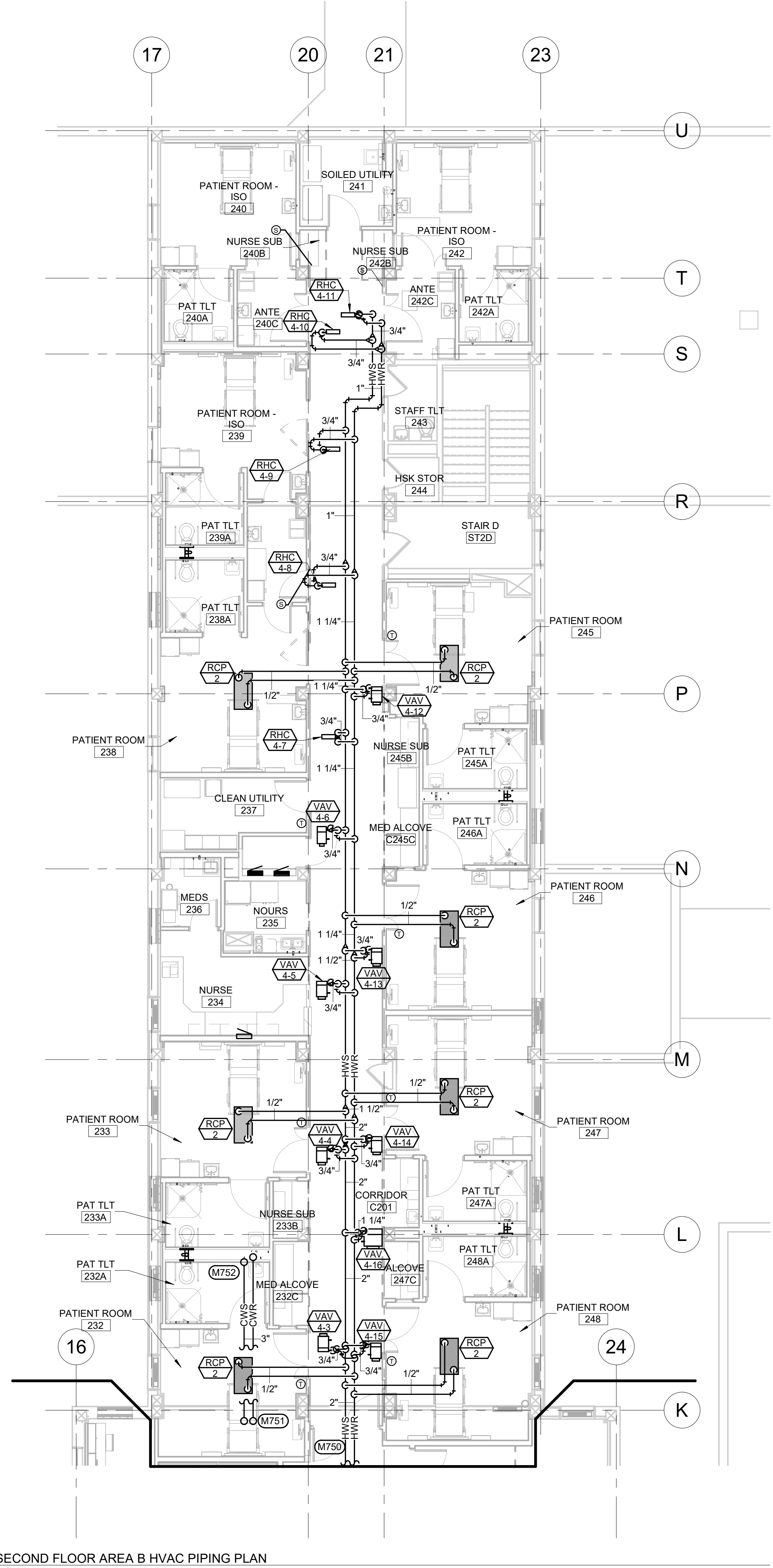
VA #568-14-110
WPE #BR21020

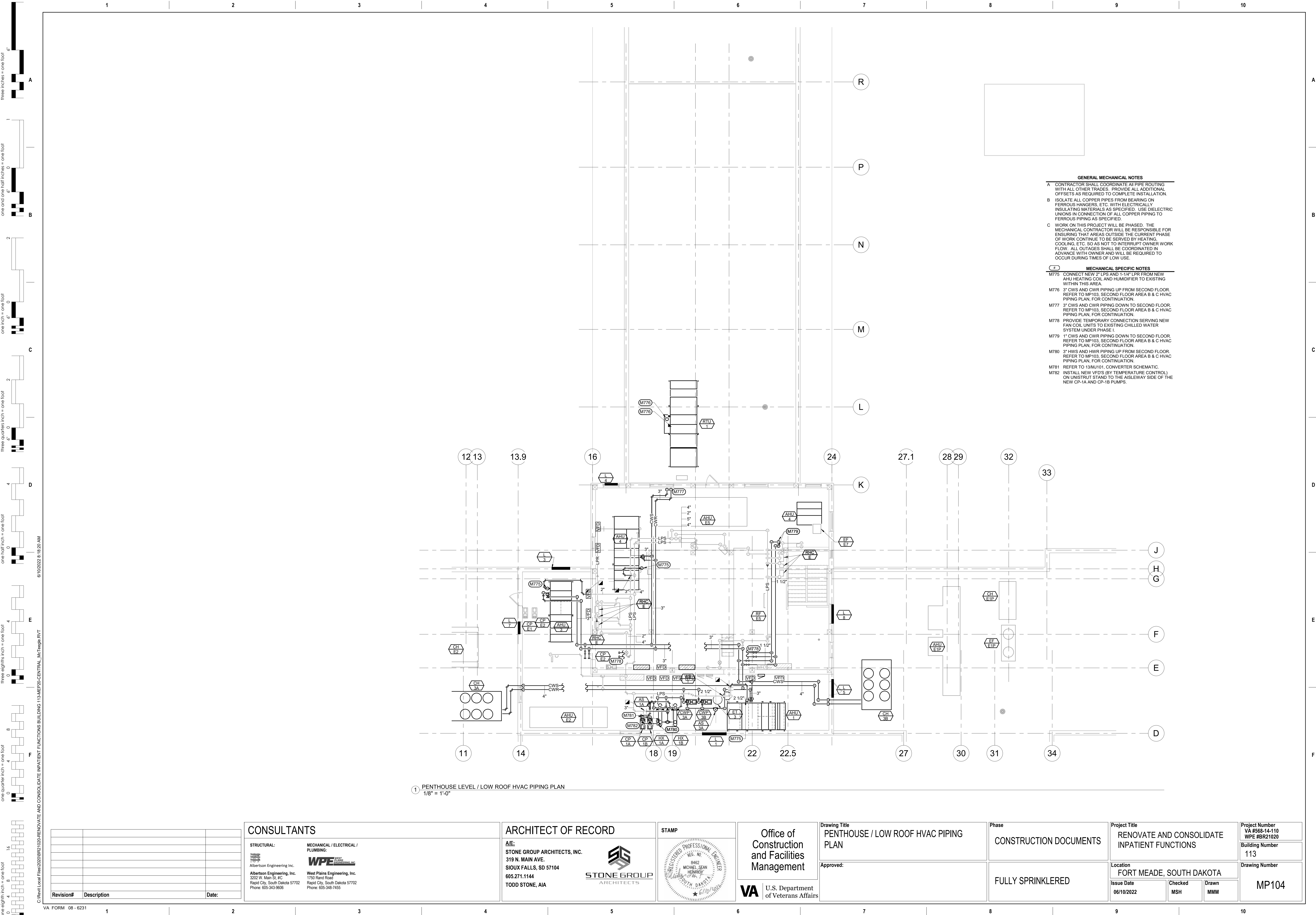
Building Number

113

Drawing Number

MP103





- GENERAL MECHANICAL NOTES**
- A CONTRACTOR SHALL COORDINATE ALL PIPE ROUTING WITH ALL OTHER TRADES. PROVIDE ALL ADDITIONAL OFFSETS AS REQUIRED TO COMPLETE INSTALLATION.
 - B ISOLATE ALL COPPER PIPES FROM BEARING ON FERROUS HANGERS, ETC. WITH ELECTRICALLY INSULATING MATERIALS AS SPECIFIED. USE DIELECTRIC UNIONS IN CONNECTION OF ALL COPPER PIPING TO FERROUS PIPING AS SPECIFIED.
 - C WORK ON THIS PROJECT WILL BE PHASED. THE MECHANICAL CONTRACTOR WILL BE RESPONSIBLE FOR ENSURING THAT AREAS OUTSIDE THE CURRENT PHASE OF WORK CONTINUE TO BE SERVED BY HEATING, COOLING, ETC. SO AS NOT TO INTERRUPT OWNER WORK FLOW. ALL OUTAGES SHALL BE COORDINATED IN ADVANCE WITH OWNER AND WILL BE REQUIRED TO OCCUR DURING TIMES OF LOW USE.
- MECHANICAL SPECIFIC NOTES**
- M775 CONNECT NEW 2" LPS AND 1-1/4" LPR FROM NEW AHU HEATING COIL AND HUMIDIFIER TO EXISTING WITHIN THIS AREA.
 - M776 3" CWS AND CWR PIPING UP FROM SECOND FLOOR. REFER TO MP103, SECOND FLOOR AREA B & C HVAC PIPING PLAN, FOR CONTINUATION.
 - M777 3" CWS AND CWR PIPING DOWN TO SECOND FLOOR. REFER TO MP103, SECOND FLOOR AREA B & C HVAC PIPING PLAN, FOR CONTINUATION.
 - M778 PROVIDE TEMPORARY CONNECTION SERVING NEW FAN COIL UNITS TO EXISTING CHILLED WATER SYSTEM UNDER PHASE I.
 - M779 1" CWS AND CWR PIPING DOWN TO SECOND FLOOR. REFER TO MP103, SECOND FLOOR AREA B & C HVAC PIPING PLAN, FOR CONTINUATION.
 - M780 3" HWS AND HWR PIPING UP FROM SECOND FLOOR. REFER TO MP103, SECOND FLOOR AREA B & C HVAC PIPING PLAN, FOR CONTINUATION.
 - M781 REFER TO 13MM101, CONVERTER SCHEMATIC.
 - M782 INSTALL NEW VFD'S (BY TEMPERATURE CONTROL) ON UNISTRUT STAND TO THE AISLEWAY SIDE OF THE NEW CP-1A AND CP-1B PUMPS.

1 PENTHOUSE LEVEL / LOW ROOF HVAC PIPING PLAN
1/8" = 1'-0"

Revision#	Description	Date:

CONSULTANTS

STRUCTURAL:
Albertson Engineering, Inc.
3302 W. Main St. #C
Rapid City, South Dakota 57702
Phone: 605-343-9606

MECHANICAL / ELECTRICAL / PLUMBING:
WPE WEST PLAINS ENGINEERING, INC.
1750 Rand Road
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Phone: 605-348-7455

ARCHITECT OF RECORD

A/E:
STONE GROUP ARCHITECTS, INC.
319 N. MAIN AVE.
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TODD STONE, AIA



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U.S. Department
of Veterans Affairs

Drawing Title
PENTHOUSE / LOW ROOF HVAC PIPING
PLAN

Approved:

Phase
CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title
RENOVATE AND CONSOLIDATE
INPATIENT FUNCTIONS

Location
FORT MEADE, SOUTH DAKOTA

Issue Date
06/10/2022

Checked
MSH

Drawn
MMM

Project Number
VA #568-14-110
WPE #BR21020
Building Number
113

Drawing Number
MP104



A. COORDINATE LOCATION OF DUCTWORK WITH STRUCTURE AND OTHER TRADES. INSTALL DUCTWORK AS HIGH AS POSSIBLE.

B. SPACE ABOVE CEILING IS LIMITED. CONTRACTOR SHALL COORDINATE ALL DUCT AND PIPE ROUTING WITH ALL OTHER TRADES. PROVIDE ALL ADDITIONAL OFFSETS AND TRANSITIONS AS REQUIRED TO COMPLETE INSTALLATION.

M600	INSTALL DUCTWORK BELOW EXISTING BEAM.
M601	INSTALL NEW THERMOSTATS AND INTEGRATE TO EXISTING VAV AND ASSOCIATED CONTROLS.

STRUCTURAL:

 Albertson Engineering, Inc.
 Albertson Engineering, Inc.
 3202 W. Main St., #C
 Rapid City, South Dakota 57702
 Phone: 605-343-9606

A/E:
STONE GROUP ARCHITECTS, INC
319 N. MAIN AVE.
SIOUX FALLS, SD 57104
605.271.1144
TODD STONE, AIA

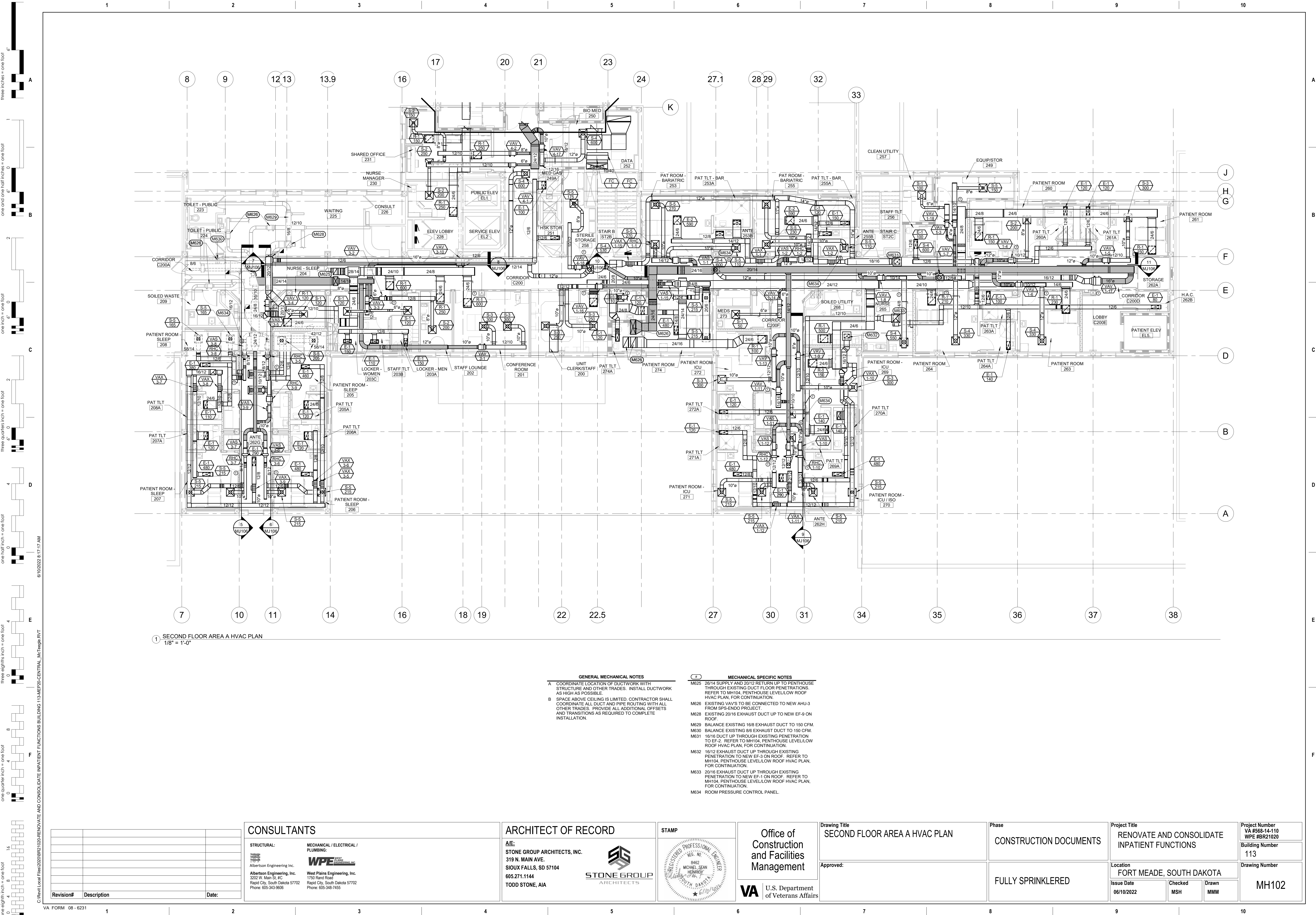
VA U.S. Department
of Veterans Affairs

Approved:

FULLY SPRINKLERED

Location	FORT MEADE, SOUTH DAKOTA
----------	--------------------------

Drawing Number
MH10



1 SECOND FLOOR AREA A HVAC PLAN
1/8" = 1'-0"

GENERAL MECHANICAL NOTES

- COORDINATE LOCATION OF DUCTWORK WITH STRUCTURE AND OTHER TRADES. INSTALL DUCTWORK AS HIGH AS POSSIBLE.
- SPACE ABOVE CEILING IS LIMITED. CONTRACTOR SHALL COORDINATE ALL DUCT AND PIPE ROUTING WITH ALL OTHER TRADES. PROVIDE ALL ADDITIONAL OFFSETS AND TRANSITIONS AS REQUIRED TO COMPLETE INSTALLATION.

MECHANICAL SPECIFIC NOTES

- 28/14 SUPPLY AND 20/12 RETURN UP TO PENTHOUSE THROUGH EXISTING DUCT FLOOR PENETRATIONS. REFER TO MH104, PENTHOUSE LEVEL/LOW ROOF HVAC PLAN, FOR CONTINUATION.
- EXISTING VAVS TO BE CONNECTED TO NEW AHU-3 FROM SPS-ENDO PROJECT.
- EXISTING 20/16 EXHAUST DUCT UP TO NEW EF-9 ON ROOF.
- BALANCE EXISTING 16/8 EXHAUST DUCT TO 150 CFM.
- BALANCE EXISTING 8/6 EXHAUST DUCT TO 150 CFM.
- 16/16 DUCT UP THROUGH EXISTING PENETRATION TO EF-2. REFER TO MH104, PENTHOUSE LEVEL/LOW ROOF HVAC PLAN, FOR CONTINUATION.
- 16/12 EXHAUST DUCT UP THROUGH EXISTING PENETRATION TO NEW EF-3 ON ROOF. REFER TO MH104, PENTHOUSE LEVEL/LOW ROOF HVAC PLAN, FOR CONTINUATION.
- 20/16 EXHAUST DUCT UP THROUGH EXISTING PENETRATION TO NEW EF-1 ON ROOF. REFER TO MH104, PENTHOUSE LEVEL/LOW ROOF HVAC PLAN, FOR CONTINUATION.
- ROOM PRESSURE CONTROL PANEL.

CONSULTANTS

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MECHANICAL / ELECTRICAL / PLUMBING:
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Phone: 605-348-7455

ARCHITECT OF RECORD

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TODD STONE, AIA



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U.S. Department
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Drawing Title
SECOND FLOOR AREA A HVAC PLAN

Approved:

Phase
CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title
RENOVATE AND CONSOLIDATE
INPATIENT FUNCTIONS

Location
FORT MEADE, SOUTH DAKOTA

Issue Date
06/10/2022

Checked
MSH

Drawn
MMM

Project Number
VA #568-14-110
WPE #BR21020
Building Number
113

Drawing Number
MH102

one eighth inch = one foot
one quarter inch = one foot
three eighths inch = one foot
one half inch = one foot
three quarters inch = one foot
one inch = one foot
one and one half inches = one foot
three inches = one foot

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1 SECOND FLOOR AREA B HVAC PLAN
1/8" = 1'-0"

Revision#	Description	Date:

CONSULTANTS

STRUCTURAL:
Albertson Engineering, Inc.
3302 W. Main St. #C
Rapid City, South Dakota 57702
Phone: 605-343-9606

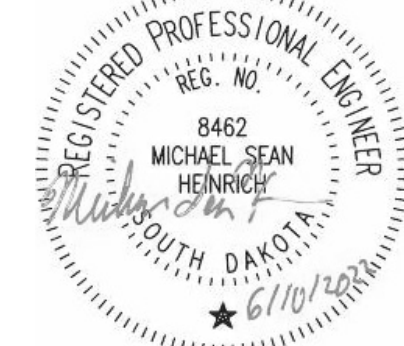
MECHANICAL / ELECTRICAL / PLUMBING:
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ARCHITECT OF RECORD

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605.271.1144
TODD STONE, AIA

STONE GROUP
ARCHITECTS

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Construction
and Facilities
Management

VA U.S. Department
of Veterans Affairs

Drawing Title
SECOND FLOOR AREA B & C HVAC PLAN

Approved:

Phase
CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title
RENOVATE AND CONSOLIDATE
INFANT FUNCTIONS

Location
FORT MEADE, SOUTH DAKOTA

Issue Date
06/10/2022

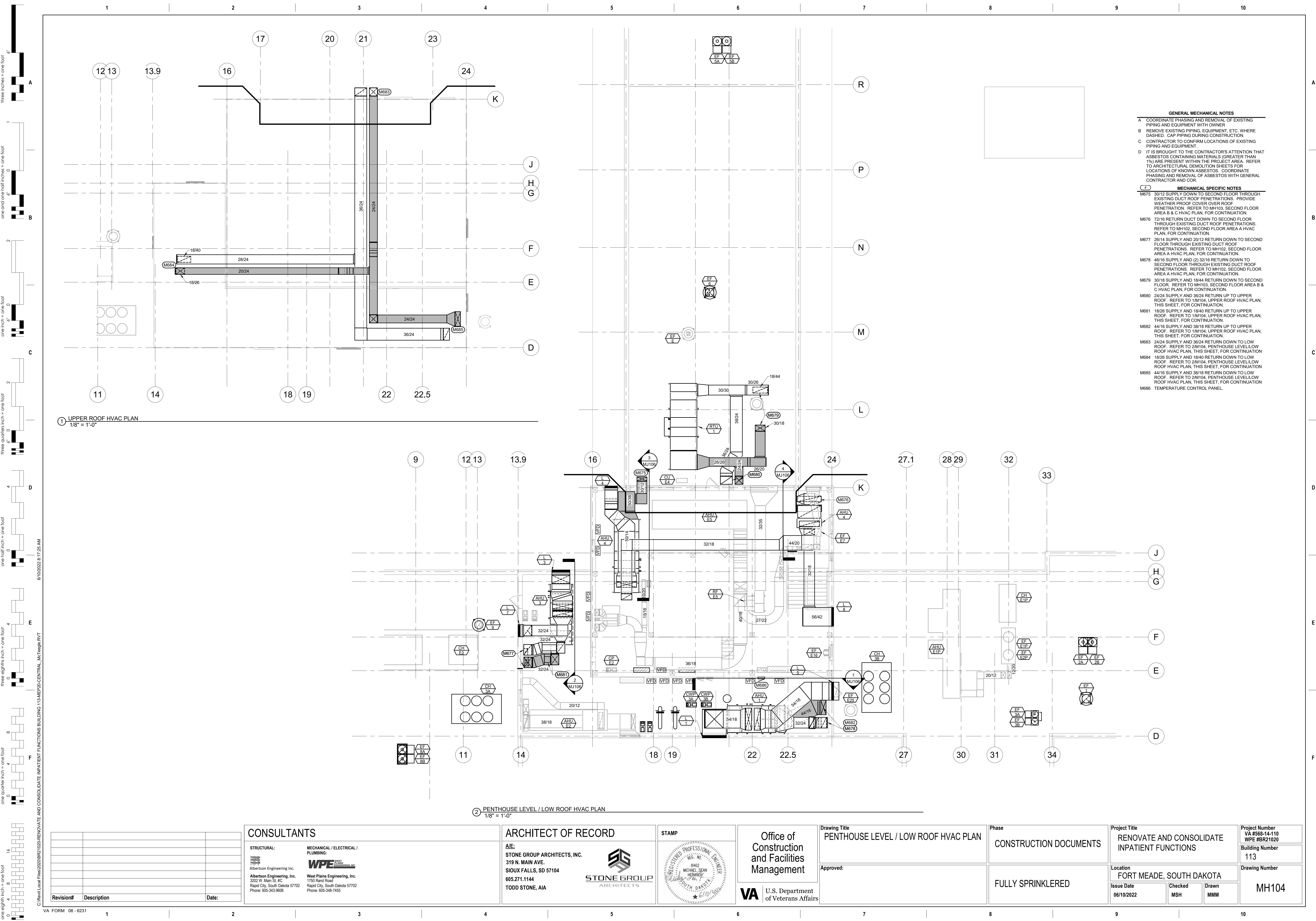
Checked
MSH

Drawn
MMM

Project Number
VA #568-14-110
WPE #BR21020
Building Number
113

Drawing Number
MH103

- GENERAL MECHANICAL NOTES**
- A COORDINATE LOCATION OF DUCTWORK WITH STRUCTURE AND OTHER TRADES. INSTALL DUCTWORK AS HIGH AS POSSIBLE.
- B SPACE ABOVE CEILING IS LIMITED. CONTRACTOR SHALL COORDINATE ALL DUCT AND PIPE ROUTING WITH ALL OTHER TRADES. PROVIDE ALL ADDITIONAL OFFSETS AND TRANSITIONS AS REQUIRED TO COMPLETE INSTALLATION.
- MECHANICAL SPECIFIC NOTES**
- M650 72/16 RETURN DUCT UP THROUGH EXISTING OPENING TO PENTHOUSE. REFER TO MH104, PENTHOUSE LEVEL/LOW ROOF HVAC PLAN, FOR CONTINUATION.
- M651 BALANCE EXISTING 243 STAFF TLT EXHAUST TO 100 CFM AND RM 244 EXHAUST TO 50 CFM.
- M652 EXISTING 15/10 AND 10/10 EXHAUST DUCTS AND ASSOCIATED EXHAUST FANS TO REMAIN IN OPERATION DURING CONSTRUCTION.
- M653 20/16 EXHAUST DUCT UP TO EF-5 ON ROOF. CONTRACTOR TO REUSE EXISTING ROOF PENETRATION.
- M654 30/12 SUPPLY UP TO PENTHOUSE THROUGH EXISTING DUCT ROOF PENETRATIONS. REFER TO MH104, PENTHOUSE LEVEL/LOW ROOF HVAC PLAN, FOR CONTINUATION.
- M655 18/14 SUPPLY UP TO EF-6 THROUGH EXISTING DUCT ROOF PENETRATIONS. REFER TO MH104, PENTHOUSE LEVEL/LOW ROOF HVAC PLAN, FOR CONTINUATION.
- M656 ROOM PRESSURE CONTROL PANEL.
- M657 30/18 SUPPLY UP TO ROOF. REFER TO MH104, PENTHOUSE LEVEL/LOW ROOF HVAC PLAN, FOR CONTINUATION.
- M658 18/44 RETURN DOWN FROM ROOF. REFER TO MH104, PENTHOUSE LEVEL/LOW ROOF HVAC PLAN, FOR CONTINUATION.



- GENERAL MECHANICAL NOTES**
- A COORDINATE PHASING AND REMOVAL OF EXISTING PIPING AND EQUIPMENT WITH OWNER.
 - B REMOVE EXISTING PIPING, EQUIPMENT, ETC. WHERE DASHED. CAP PIPING DURING CONSTRUCTION.
 - C CONTRACTOR TO CONFIRM LOCATIONS OF EXISTING PIPING AND EQUIPMENT.
 - D IT IS BROUGHT TO THE CONTRACTOR'S ATTENTION THAT ASBESTOS CONTAINING MATERIALS (GREATER THAN 1%) ARE PRESENT WITHIN THE PROJECT AREA. REFER TO ARCHITECTURAL DEMOLITION SHEETS FOR LOCATIONS OF KNOWN ASBESTOS. COORDINATE PHASING AND REMOVAL OF ASBESTOS WITH GENERAL CONTRACTOR AND COR.
- MECHANICAL SPECIFIC NOTES**
- M675 30/12 SUPPLY DOWN TO SECOND FLOOR THROUGH EXISTING DUCT ROOF PENETRATIONS. PROVIDE WEATHER PROOF COVER OVER ROOF PENETRATION. REFER TO MH103, SECOND FLOOR AREA B & C HVAC PLAN, FOR CONTINUATION.
 - M676 72/16 RETURN DUCT DOWN TO SECOND FLOOR THROUGH EXISTING DUCT ROOF PENETRATIONS. REFER TO MH102, SECOND FLOOR AREA A HVAC PLAN, FOR CONTINUATION.
 - M677 26/14 SUPPLY AND 20/12 RETURN DOWN TO SECOND FLOOR THROUGH EXISTING DUCT ROOF PENETRATIONS. REFER TO MH102, SECOND FLOOR AREA A HVAC PLAN, FOR CONTINUATION.
 - M678 48/16 SUPPLY AND (2) 32/16 RETURN DOWN TO SECOND FLOOR THROUGH EXISTING DUCT ROOF PENETRATIONS. REFER TO MH102, SECOND FLOOR AREA A HVAC PLAN, FOR CONTINUATION.
 - M679 30/18 SUPPLY AND 18/44 RETURN DOWN TO SECOND FLOOR. REFER TO MH103, SECOND FLOOR AREA B & C HVAC PLAN, FOR CONTINUATION.
 - M680 24/24 SUPPLY AND 36/24 RETURN UP TO UPPER ROOF. REFER TO 1M104, UPPER ROOF HVAC PLAN, THIS SHEET, FOR CONTINUATION.
 - M681 18/26 SUPPLY AND 18/40 RETURN UP TO UPPER ROOF. REFER TO 1M104, UPPER ROOF HVAC PLAN, THIS SHEET, FOR CONTINUATION.
 - M682 44/16 SUPPLY AND 38/18 RETURN UP TO UPPER ROOF. REFER TO 1M104, UPPER ROOF HVAC PLAN, THIS SHEET, FOR CONTINUATION.
 - M683 24/24 SUPPLY AND 36/24 RETURN DOWN TO LOW ROOF. REFER TO 2M104, PENTHOUSE LEVEL/LOW ROOF HVAC PLAN, THIS SHEET, FOR CONTINUATION.
 - M684 18/26 SUPPLY AND 18/40 RETURN DOWN TO LOW ROOF. REFER TO 2M104, PENTHOUSE LEVEL/LOW ROOF HVAC PLAN, THIS SHEET, FOR CONTINUATION.
 - M685 44/16 SUPPLY AND 38/18 RETURN DOWN TO LOW ROOF. REFER TO 2M104, PENTHOUSE LEVEL/LOW ROOF HVAC PLAN, THIS SHEET, FOR CONTINUATION.
 - M686 TEMPERATURE CONTROL PANEL.

CONSULTANTS

STRUCTURAL:
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3302 W. Main St. #C
Rapid City, South Dakota 57702
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STAMP



Office of
Construction
and Facilities
Management



U.S. Department
of Veterans Affairs

Drawing Title
PENTHOUSE LEVEL / LOW ROOF HVAC PLAN

Approved:

Phase
CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title
**RENOVATE AND CONSOLIDATE
INPATIENT FUNCTIONS**

Location
FORT MEADE, SOUTH DAKOTA

Issue Date
06/10/2022

Checked
MSH

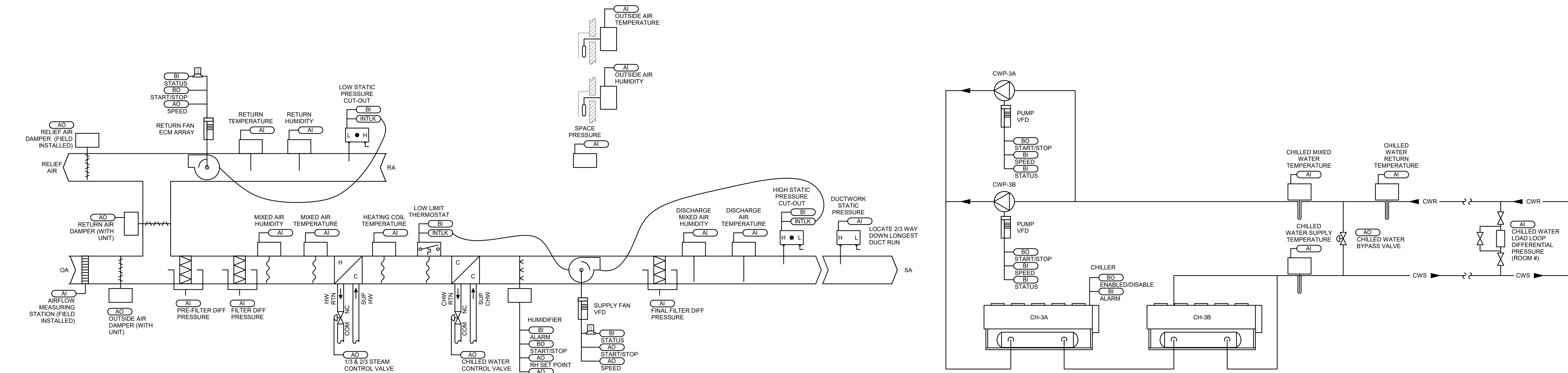
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MMM

Project Number
**VA #568-14-110
WPE #BR21020**

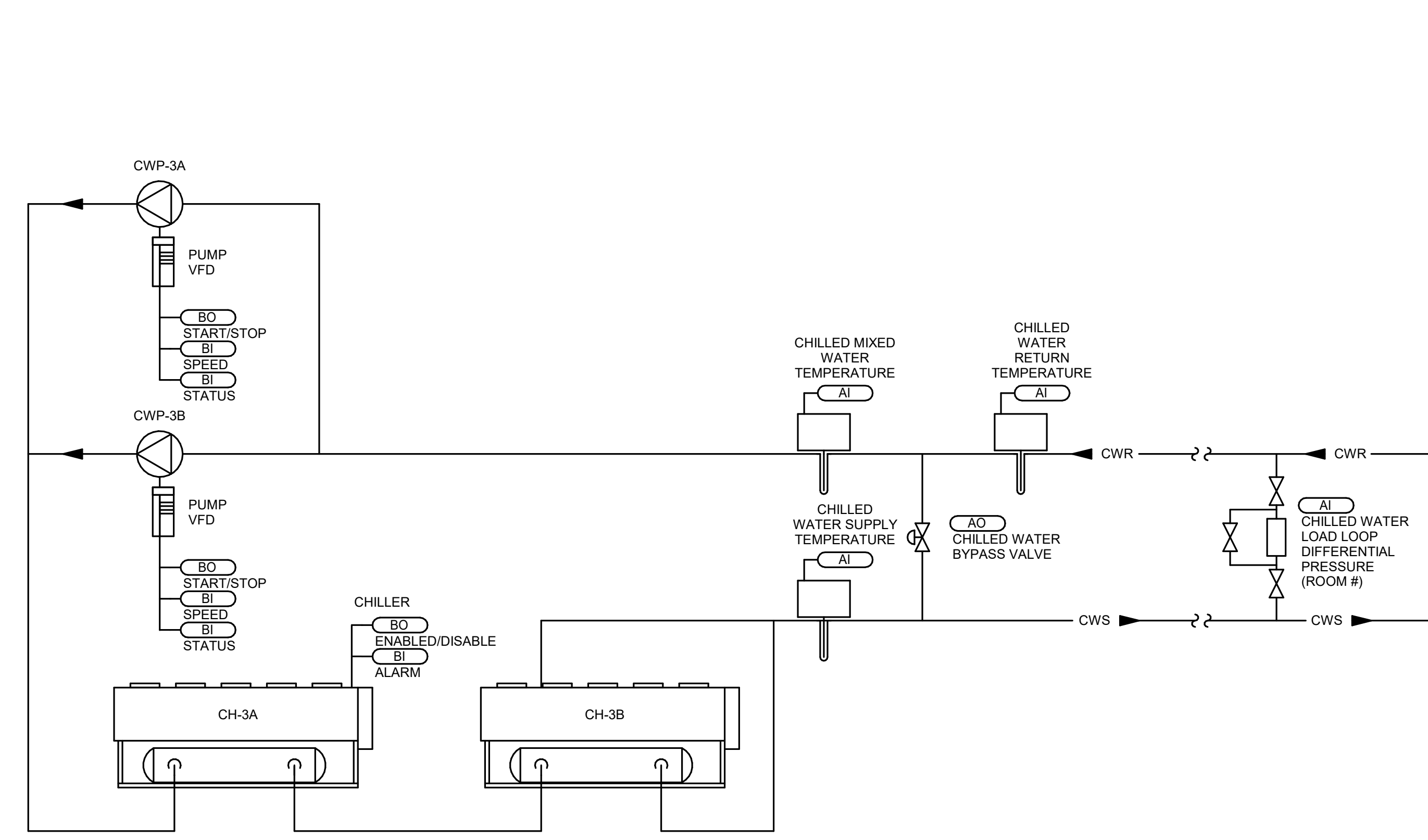
Building Number
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Drawing Number
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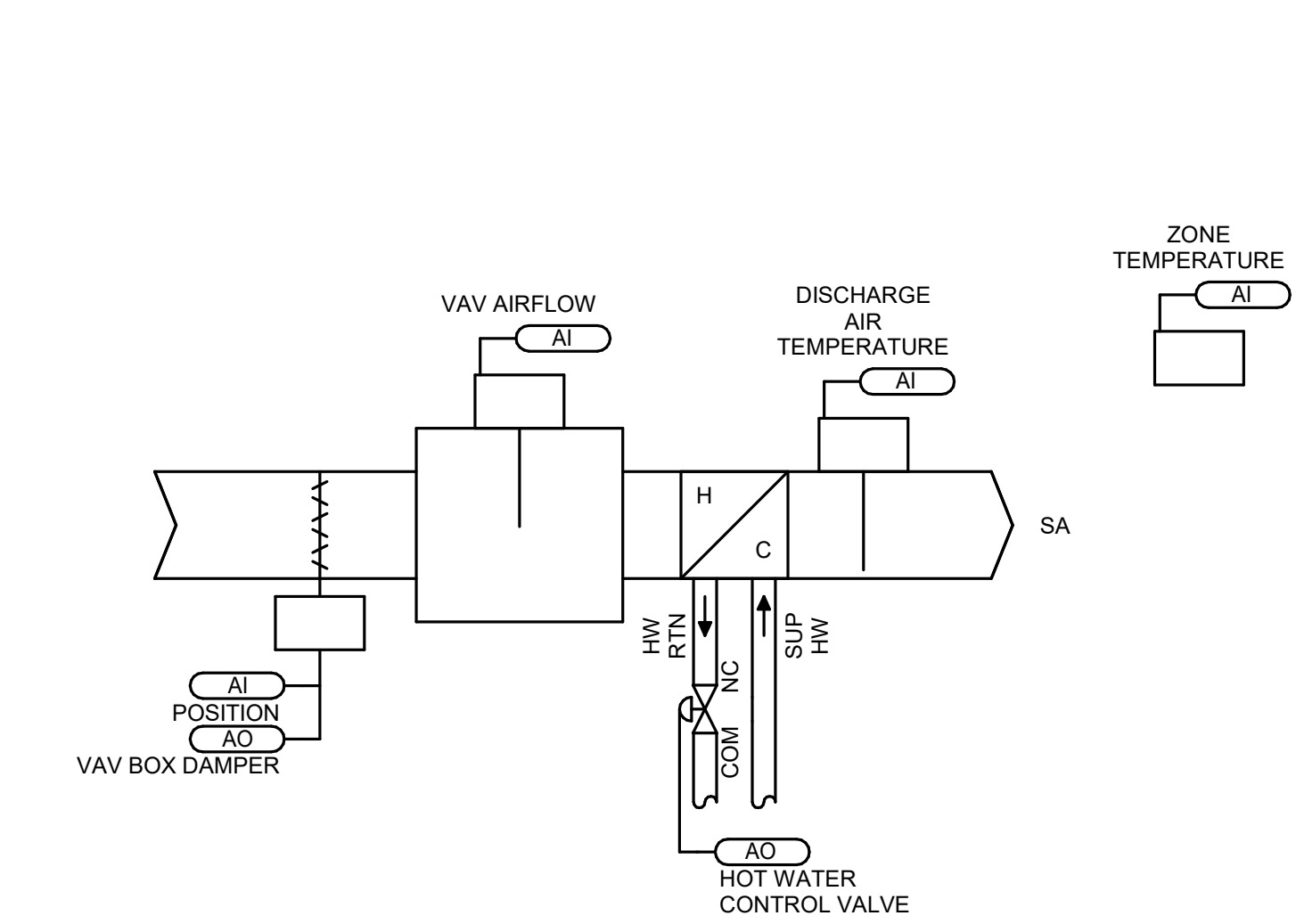
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one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
one quarter inch = one foot
three eighths inch = one foot
one eighth inch = one foot



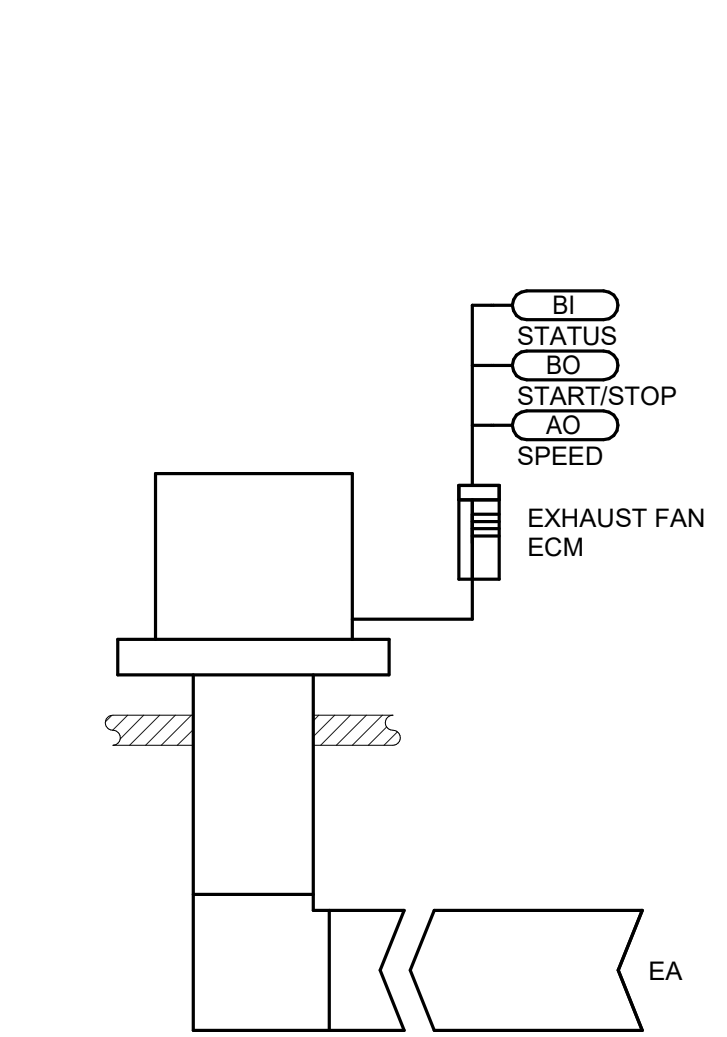
1 AIR HANDLING UNIT WITH RETURN FAN SYSTEM DIAGRAM
NO SCALE



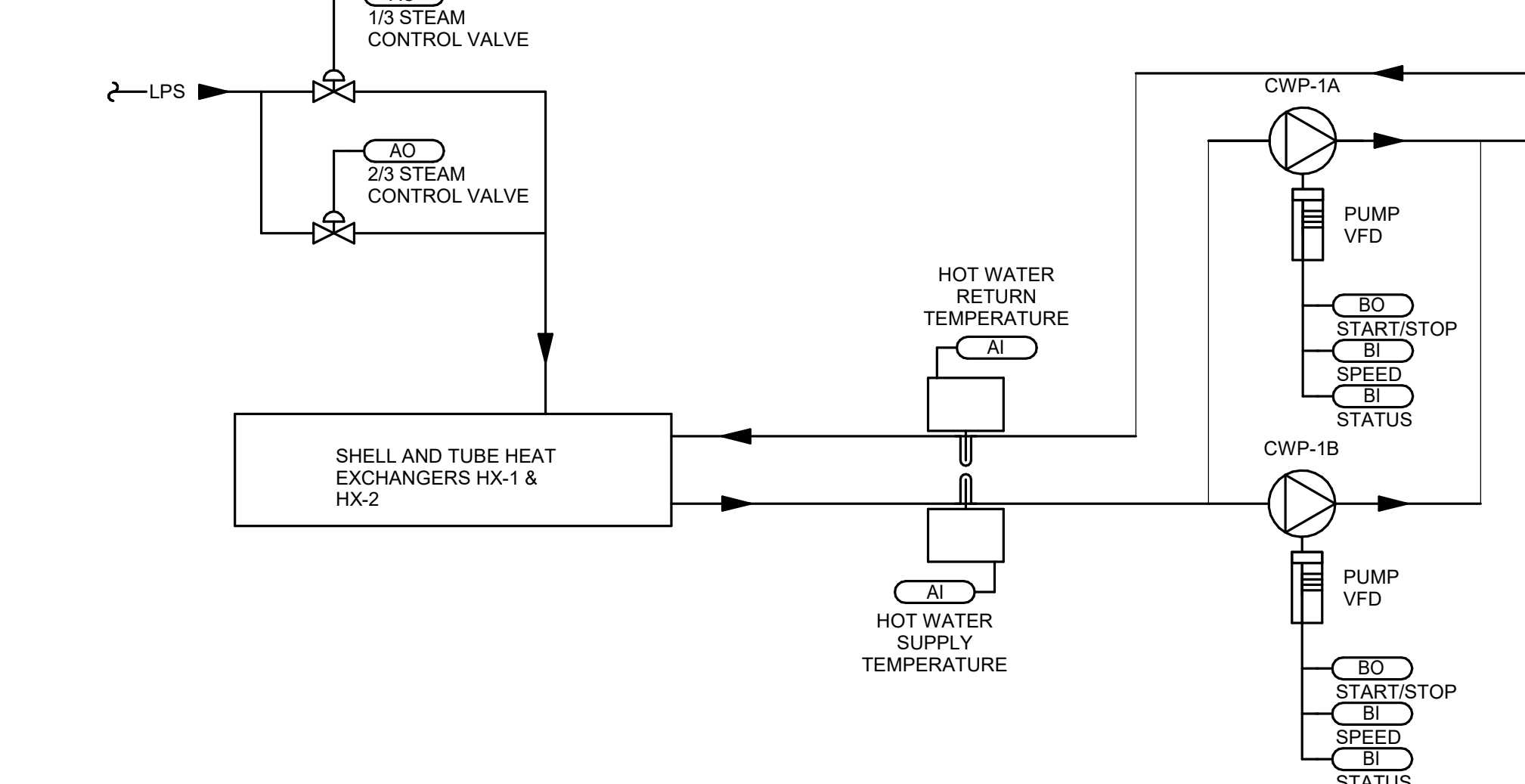
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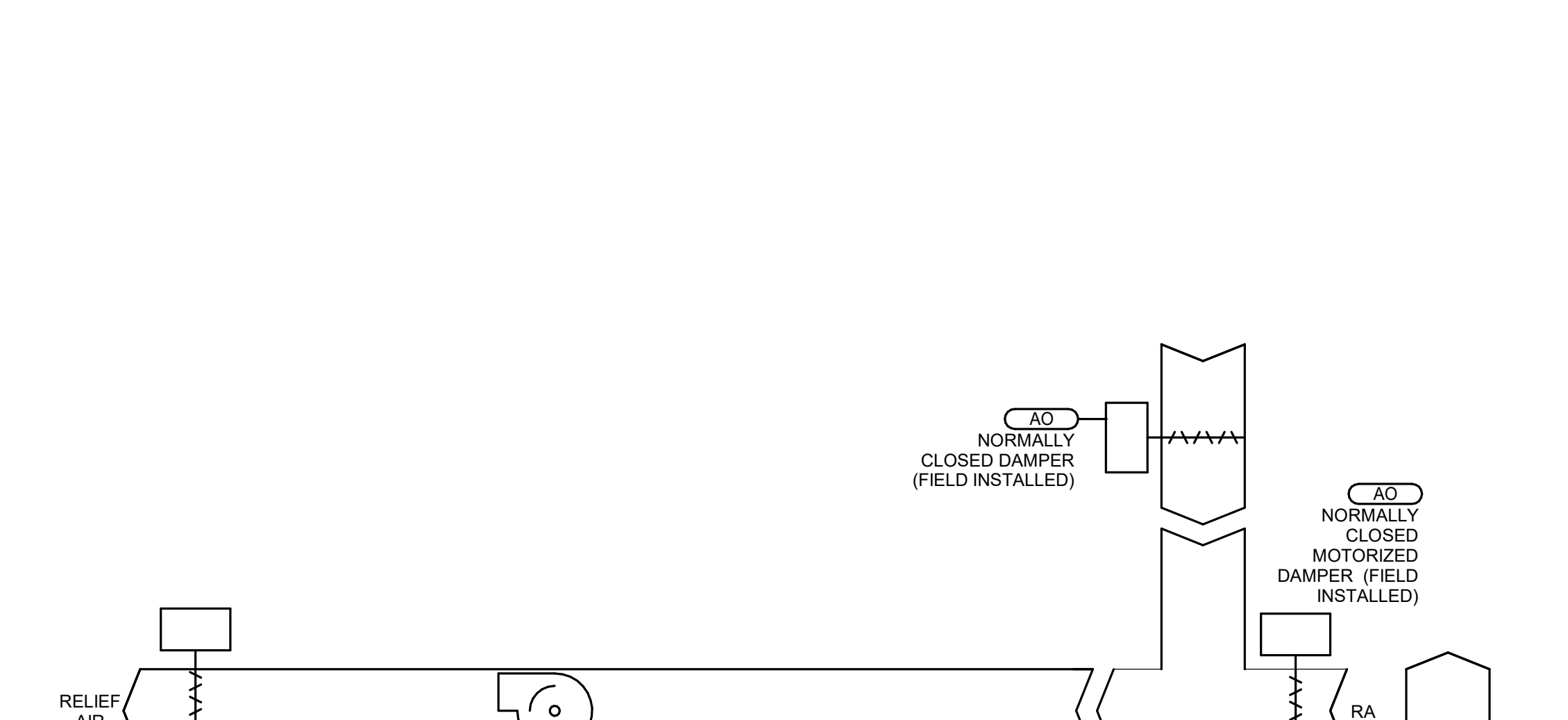
3 VAV TERMINAL UNIT SYSTEM DIAGRAM
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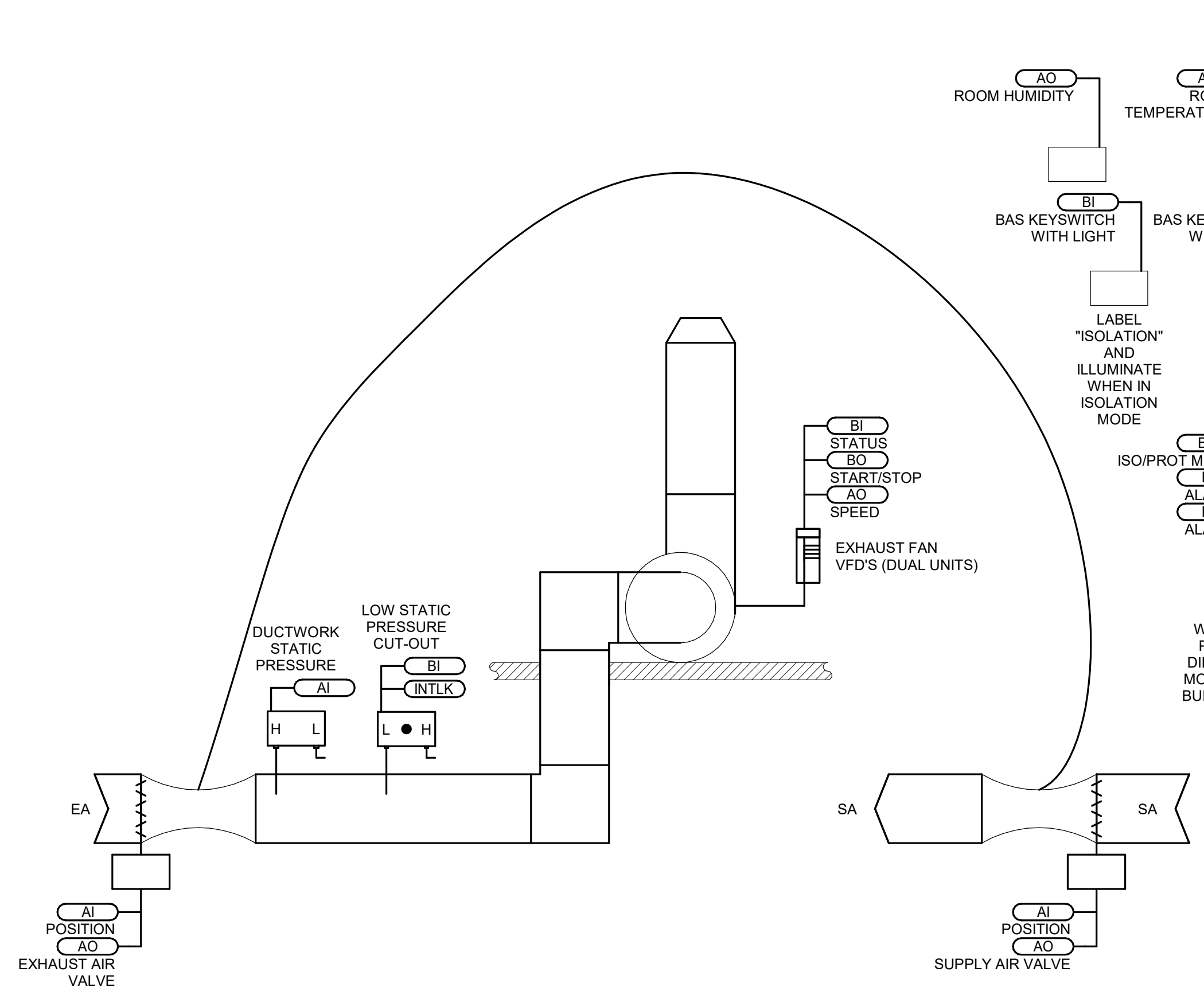
4 EXHAUST FAN SYSTEM DIAGRAM (ECM)
NO SCALE



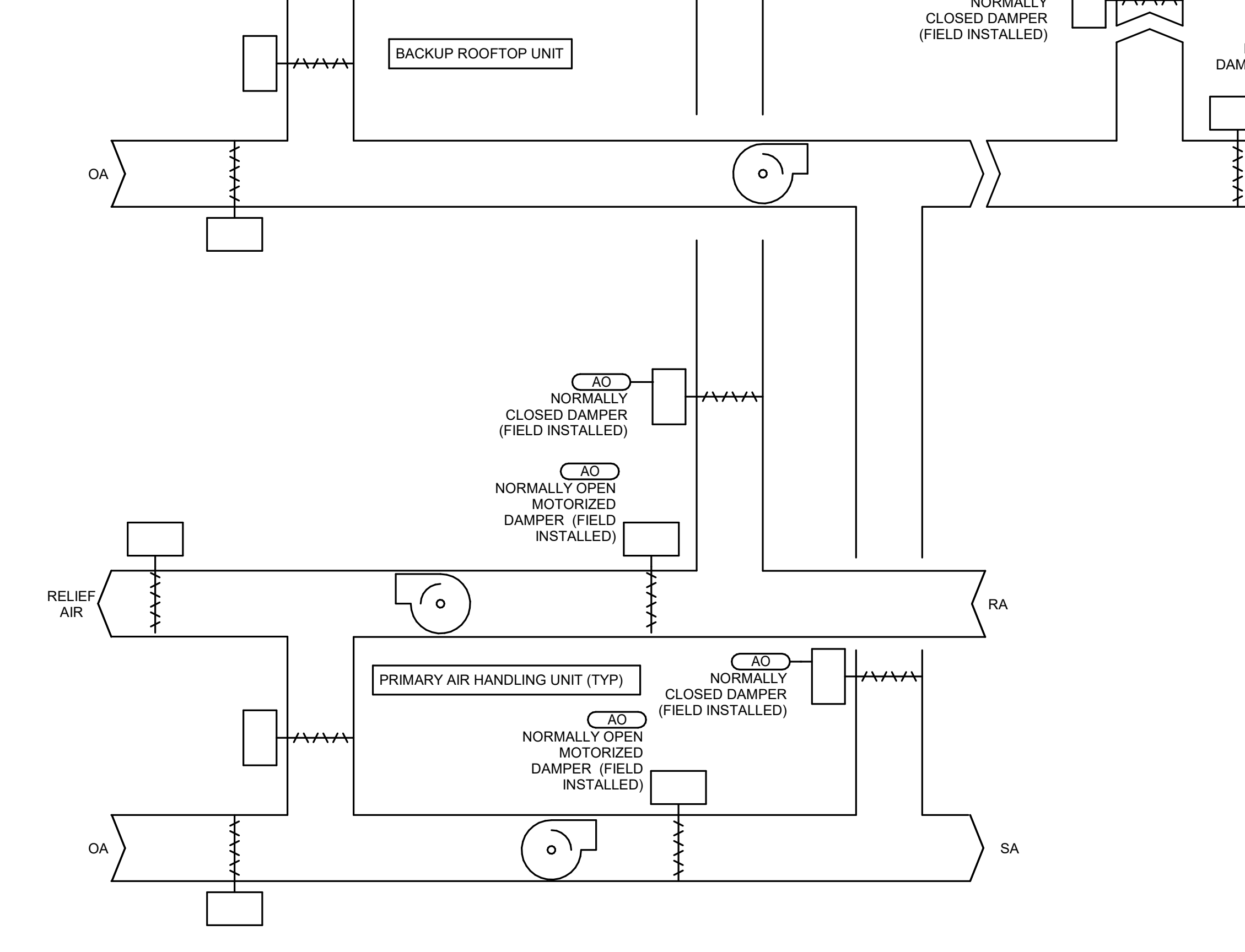
5 CONVERTER SYSTEM DIAGRAM
NO SCALE



6 DRAW-THRU FAN COIL UNIT SYSTEM DIAGRAM
NOSCALE



7 ISOLATION/PROTECTIVE ROOM SYSTEM DIAGRAM
NO SCALE



8 AIR HANDLING UNIT WITH RETURN FAN SYSTEM DIAGRAM
NO SCALE

CONSULTANTS		ARCHITECT OF RECORD		STAMP		Office of Construction and Facilities Management		Drawing Title MECHANICAL DIAGRAMS		Phase CONSTRUCTION DOCUMENTS		Project Title RENOVATE AND CONSOLIDATE INPATIENT FUNCTIONS		Project Number VA #568-14-110 WPE #BR21020	
STRUCTURAL: Albertson Engineering, Inc. 3202 W. Main St. #C Rapid City, South Dakota 57702 Phone: 605-343-9606		MECHANICAL / ELECTRICAL / PLUMBING: WPE West Plains Engineering, Inc. 1750 Rand Road Rapid City, South Dakota 57702 Phone: 605-348-7455		A/E: STONE GROUP ARCHITECTS, INC. 319 N. MAIN AVE. SIOUX FALLS, SD 57104 605.271.1144 TODD STONE, AIA		8462 MICHAEL SEAN HENRIE SOUTH DAKOTA 6/10/2022		VA U.S. Department of Veterans Affairs		Approved:		FULLY SPRINKLERED		Location FORT MEADE, SOUTH DAKOTA	
Revision# Description Date:												Issue Date 06/10/2022		Checked MSH	
												Drawn MMM		Drawing Number MJ102	

VARIABLE AIR VOLUME BOX SCHEDULE																
UNIT TYPE	UNIT NUMBER	MANUFACTURER	MODEL	PRIMARY CFM		INLET STATIC	INLET CONNECTION	REHEAT SECTION							NC	COMMENTS
				MAX	MIN			GPM	BTUH	EWTLWT	ROWS	WPD	APD	% GLYCOL		
VAV	1-3	KRUEGER	LMHS 4	100	50	1.00 in-wg	4"	0.5	2000	140/131.7	1	0.24	0.01 in-wg	30	13	1.2
VAV	1-4	KRUEGER	LMHS 10	330	250	1.00 in-wg	10"	2	10700	140/128.8	2	0.54	0.07 in-wg	30	12	1.2
VAV	1-5	KRUEGER	LMHS 10	330	250	1.00 in-wg	10"	2	10700	140/128.8	2	0.54	0.07 in-wg	30	12	1.2
VAV	1-6	KRUEGER	LMHS 10	330	250	1.00 in-wg	10"	2	10700	140/128.8	2	0.54	0.07 in-wg	30	12	1.2
VAV	1-7	KRUEGER	LMHS 10	330	250	1.00 in-wg	10"	2	10700	140/128.8	2	0.54	0.07 in-wg	30	12	1.2
VAV	1-8	KRUEGER	LMHS 10	550	300	1.00 in-wg	10"	2	12700	140/129.4	2	0.76	0.10 in-wg	30	13	1.2
VAV	1-9	KRUEGER	LMHS 8	300	175	1.00 in-wg	8"	1.2	7100	140/119.6	2	0.35	0.10 in-wg	30	12	1.2
VAV	1-11	KRUEGER	LMHS 10	300	250	1.00 in-wg	10"	2	10700	140/128.8	2	0.54	0.07 in-wg	30	12	1.2
VAV	1-13	KRUEGER	LMHS 10	300	250	1.00 in-wg	10"	2	10700	140/128.8	2	0.54	0.07 in-wg	30	12	1.2
VAV	1-14	KRUEGER	LMHS 4	50	50	1.00 in-wg	4"	0.5	2000	140/131.7	1	0.24	0.01 in-wg	30	13	1.2
VAV	1-16	KRUEGER	LMHS 10	500	300	1.00 in-wg	10"	0	12700	140/129.4	2	0.76	0.10 in-wg	30	13	1.2
VAV	1-17	KRUEGER	LMHS 16	1250	1000	1.00 in-wg	16"	8	38900	140/129.8	2	2.66	0.29 in-wg	30	13	1.2
VAV	1-18	KRUEGER	LMHS 4	210	50	1.00 in-wg	4"	0.5	2000	140/131.7	1	0.24	0.01 in-wg	30	13	1.2
VAV	3-1	KRUEGER	LMHS 10	500	300	1.00 in-wg	10"	2	12700	140/129.4	2	0.76	0.10 in-wg	30	13	1.2
VAV	3-2	KRUEGER	LMHS 6	200	125	1.00 in-wg	6"	0.7	5000	140/125.1	2	0.13	0.07 in-wg	30	15	1.2
VAV	3-3	KRUEGER	LMHS 8	240	200	1.00 in-wg	8"	1.5	8300	140/128.5	2	0.65	0.09 in-wg	30	17	1.2
VAV	3-4	KRUEGER	LMHS 4	120	50	1.00 in-wg	4"	0.5	2000	140/131.7	1	0.24	0.01 in-wg	30	13	1.2
VAV	3-10	KRUEGER	LMHS 16	1170	1000	1.00 in-wg	16"	2	38900	140/129.4	2	2.66	0.29 in-wg	30	13	1.2
VAV	4-1	KRUEGER	LMHS 6	200	100	1.00 in-wg	6"	0	4300	140/122.1	2	0.7	0.04 in-wg	30	18	1.2
VAV	4-2	KRUEGER	LMHS 8	400	200	1.00 in-wg	8"	0	8300	140/128.5	2	0.65	0.09 in-wg	30	17	1.2
VAV	4-3	KRUEGER	LMHS 10	300	250	1.00 in-wg	10"	0	10700	140/128.8	2	0.54	0.07 in-wg	30	12	1.2
VAV	4-4	KRUEGER	LMHS 10	330	250	1.00 in-wg	10"	0	10700	140/128.8	2	0.54	0.07 in-wg	30	12	1.2
VAV	4-5	KRUEGER	LMHS 10	400	250	1.00 in-wg	10"	0	10700	140/128.8	2	0.54	0.07 in-wg	30	12	1.2
VAV	4-6	KRUEGER	LMHS 6	90	90	1.00 in-wg	6"	0.5	5000	140/120.2	3	0.7	0.15 in-wg	30	23	1.2
VAV	4-12	KRUEGER	LMHS 10	350	250	1.00 in-wg	10"	2	10700	140/128.8	2	0.54	0.07 in-wg	30	12	1.2
VAV	4-13	KRUEGER	LMHS 10	350	250	1.00 in-wg	10"	2	10700	140/128.8	2	0.54	0.07 in-wg	30	12	1.2
VAV	4-14	KRUEGER	LMHS 10	330	250	1.00 in-wg	10"	2	10700	140/128.8	2	0.54	0.07 in-wg	30	12	1.2
VAV	4-15	KRUEGER	LMHS 10	330	250	1.00 in-wg	10"	0	10700	140/128.8	2	0.54	0.07 in-wg	30	12	1.2
VAV	4-16	KRUEGER	LMHS 16	1240	1000	1.00 in-wg	16"	8	38900	140/129.4	2	2.66	0.29 in-wg	30	12	1.2
VAV	4-17	KRUEGER	LMHS 10	600	300	1.00 in-wg	10"	0	12700	140/129.4	2	0.76	0.10 in-wg	30	13	1.2
VAV	4-18	KRUEGER	LMHS 8	175	175	1.00 in-wg	8"	1.2	7100	140/119.6	2	0.35	0.10 in-wg	30	12	1.2

COMMENTS:
1 CAPACITY BASED ON 3200 FT ELEVATION.
2 CAPACITY BASED ON 55 DEG. EAT.

UNIT TYPE	UNIT NUMBER	SIZE		CFM	EAT	APD	BTUH	GPM	WPD	EWT	LWT	ROWS	COMMENTS
		HEIGHT	LENGTH										
RHC	1-1	12	16	600	55 °F	0.18 in-wg	22877	2.3	5.6 RH2O	140 °F	120 °F	2	1
RHC	1-2	12	16	600	55 °F	0.18 in-wg	22877	2.3	5.6 RH2O	140 °F	120 °F	2	1
RHC	1-10	12	12	450	55 °F	0.19 in-wg	16879	1.8	3 RH2O	140 °F	120 °F	2	1
RHC	1-11	12	12	450	55 °F	0.19 in-wg	16879	1.8	3 RH2O	140 °F	120 °F	2	1
RHC	1-12	12	12	450	55 °F	0.19 in-wg	16879	1.8	3 RH2O	140 °F	120 °F	2	1
RHC	1-15	12	16	600	55 °F	0.19 in-wg	22877	2.3	5.6 RH2O	140 °F	120 °F	2	1
RHC	3-5	12	12	450	55 °F	0.19 in-wg	16879	1.8	3 RH2O	140 °F	120 °F	2	1
RHC	3-6	12	12	450	55 °F	0.19 in-wg	16879	1.8	3 RH2O	140 °F	120 °F	2	1
RHC	3-7	12	12	450	55 °F	0.19 in-wg	16879	1.8	3 RH2O	140 °F	120 °F	2	1
RHC	3-8	12	12	450	55 °F	0.19 in-wg	16879	1.8	3 RH2O	140 °F	120 °F	2	1
RHC	3-9	12	16	600	55 °F	0.19 in-wg	22877	2.3	5.6 RH2O	140 °F	120 °F	2	1
RHC	4-7	12	12	450	55 °F	0.19 in-wg	16879	1.8	3 RH2O	140 °F	120 °F	2	1
RHC	4-8	12	12	250	55 °F	0.19 in-wg	16879	1	1 RH2O	140 °F	120 °F	2	1
RHC	4-9	12	12	450	55 °F	0.19 in-wg	16879	1.8	3 RH2O	140 °F	120 °F	2	1
RHC	4-10	12	16	600	55 °F	0.18 in-wg	22877	2.3	5.6 RH2O	140 °F	120 °F	2	1
RHC	4-11	12	16	600	55 °F	0.18 in-wg	22877	2.3	5.6 RH2O	140 °F	120 °F	2	1

COMMENTS:
1 SELECTED AT 3750 FT ELEVATION AND 30% PROPYLENE GLYCOL.

UNIT TYPE	UNIT NUMBER	MANUFACTURER	MODEL	NOMINAL SIZE			THROAT SIZE			MAX CFM	THROW	S.P.D.	NC	FRAME	COMMENTS
				WIDTH	LENGTH	DIA.	WIDTH	LENGTH	DIA.						
E	1	KRUEGER	EGC15	12"	24"		10"	22"		500	N/A	0.02 in-wg	15	LAY-IN/SURFACE	1.2
E	2	KRUEGER	EGC15	24"	24"		22"	22"		1600	N/A	0.04 in-wg	28	LAY-IN/SURFACE	1.2
R	1	KRUEGER	EGC15	24"	24"		22"	22"		1600	N/A	0.04 in-wg	28	LAY-IN/SURFACE	1.2
S	1	KRUEGER	1400A	24"	24"				6"	400	10	0.09 in-wg	24	LAY-IN/SURFACE	1.2
S	2	KRUEGER	1400A	24"	24"				8"	400	13	0.11 in-wg	29	LAY-IN/SURFACE	1.2
S	3	KRUEGER	1400A	24"	24"				10"	500	16	0.10 in-wg	28	LAY-IN/SURFACE	1.2
S	4	KRUEGER	1400A	24"	24"				12"	600	19	0.16 in-wg	37	LAY-IN/SURFACE	1.2
S	5	PRICE	AMDC	24"	24"				10"	280	16	0.10 in-wg	28	LAY-IN/SURFACE	1.2

COMMENTS:
1 PROVIDE WITH OPPOSED BLADE DAMPER WHERE REQUIRED FOR BALANCING.
2 COORDINATE FRAME STYLE WITH CEILING/DOOR WALL.

AIR COOLED CHILLER SCHEDULE														
UNIT TYPE	UNIT NUMBER	MANUFACTURER	MODEL	SERVES	COOLING BTUH	AMBIENT TEMPERATURE	GPM	EWT	LWT	WATER P D	REFRIGERANT T TYPE	% GLYCOL	NUMBER OF CIRCUITS	COMPRESSOR TYPE
CH	3A	TRANE	CGAM	BLDG 113	603240	105 °F	88	60 °F	45 °F	7.05 RH2O	R410A	40	2	SCROLL
CH	3B	TRANE	CGAM	BLDG 113	603240	105 °F	88	60 °F	45 °F	7.05 RH2O	R410A	40	2	SCROLL

COMMENTS:
1 SELECTED AT 4500 FT ELEVATION.
2 PROVIDE LOW AMBIENT COOLING DOWN TO 32 DEG. F.
3 PROVIDE WITH FUSED DISCONNECT SWITCH.
4 PROVIDE FLOW SWITCH(ES) CAPABLE OF OPERATING AT OR BELOW MINIMUM FLOW.
5 PROVIDE 5-YEAR PARTS ONLY WARRANTY.
6 PROVIDE HEAT TRACE ON TUBE BUNDLE WITH SEPARATE 120V/1PH POWER CONNECTION.
7 PROVIDE WITH HAIL GUARDS.
8 PROVIDE SOUND CONTROL AROUND COMPRESSORS.

AIR HANDLING UNIT SCHEDULE																																																		
SUPPLY FAN														RETURN FAN										COOLING COIL										STEAM HEATING COIL																
UNIT TYPE	UNIT NUMBER	MANUFACTURER	MODEL	LOCATION	COMMENTS	CFM	MIN O.A. CFM	E.S.P.	RPM	TYPE	HP	VOLTAGE	VIBRATION ISOLATION	CFM	E.S.P.	RPM	TYPE	HP	VOLTAGE	VIBRATION ISOLATION	PRE-FILTER	PRE-FILTER B	FINAL FILTER	TYPE	ROWS	FPF	GPM	EAT	WB	LAT	WB	APD	BTUH	EWT	LWT	WPD	FACE VELOCITY	ROWS	CFM	SIZE	EAT	APD	BTUH	STEAM PRESSURE	LBS/HR	FACE VELOCITY	TRAP CAPACITY			
AHU <td>1<td>TRANE<td>CSAA017<td>PENTHOUSE<td>1,2,3,4,7,8<td>7400<td>2600<td>3.25 in-wg<td>3811<td>AF<td>7.5<td>208 V<td>INTERNAL<td>4800<td>1.5 in-wg<td>3039<td>AF<td>4.02<td>208 V<td>INTERNAL<td>MERV 8<td>35<td>MERV 11<td>65<td>MERV 14<td>95<td>1<td>8<td>143<td>40<td>91 °F<td>63 °F<td>52 °F<td>49 °F<td>0.52 in-wg<td>268660<td>48 °F<td>63 °F<td>10.24 RH2O<td>440 FPM<td>1<td>7000<td>33x60<td>4 °F<td>0.104 in-wg<td>394600<td>5.00 psi<td>408.46<td>456 FPM<td>800</td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td>	1 <td>TRANE<td>CSAA017<td>PENTHOUSE<td>1,2,3,4,7,8<td>7400<td>2600<td>3.25 in-wg<td>3811<td>AF<td>7.5<td>208 V<td>INTERNAL<td>4800<td>1.5 in-wg<td>3039<td>AF<td>4.02<td>208 V<td>INTERNAL<td>MERV 8<td>35<td>MERV 11<td>65<td>MERV 14<td>95<td>1<td>8<td>143<td>40<td>91 °F<td>63 °F<td>52 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AHU <td>3<td>TRANE<td>CSAA017<td>PENTHOUSE<td>1,2,3,5,7,8<td>5500<td>1400<td>3.25 in-wg<td>3042<td>AF<td>5<td>208 V<td>INTERNAL<td>4100<td>1.5 in-wg<td>2694<td>AF<td>4.02<td>208 V<td>INTERNAL<td>MERV 8<td>35<td>MERV 11<td>65<td>MERV 14<td>95<td>1<td>8<td>128<td>32.3<td>94 °F<td>64 °F<td>52 °F<td>49 °F<td>0.30 in-wg<td>216610<td>48 °F<td>63 °F<td>6.8 RH2O<td>327 FPM<td>1<td>5500<td>33x60<td>-11 °F<td>0.068 in-wg<td>389360<td>5.00 psi<td>403.5<td>339 FPM<td>800</td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td>	3 <td>TRANE<td>CSAA017<td>PENTHOUSE<td>1,2,3,5,7,8<td>5500<td>1400<td>3.25 in-wg<td>3042<td>AF<td>5<td>208 V<td>INTERNAL<td>4100<td>1.5 in-wg<td>2694<td>AF<td>4.02<td>208 V<td>INTERNAL<td>MERV 8<td>35<td>MERV 11<td>65<td>MERV 14<td>95<td>1<td>8<td>128<td>32.3<td>94 °F<td>64 °F<td>52 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AHU <td>4<td>TRANE<td>CSAA017<td>PENTHOUSE<td>1,2,3,6,7,8<td>6400<td>3600<td>3.25 in-wg<td>3258<td>AF<td>7.5<td>208 V<td>INTERNAL<td>2800<td>1.5 in-wg<td>2340<td>AF<td>4.02<td>208 V<td>INTERNAL<td>MERV 8<td>35<td>MERV 11<td>65<td>MERV 14<td>95<td>1<td>8<td>141<td>34.9<td>91 °F<td>63 °F<td>52 °F<td>49 °F<td>0.41 in-wg<td>234140<td>48 °F<td>63 °F<td>7.88 RH2O<td>381 FPM<td>1<td>4250<td>33x60<td>4 °F<td>0.08 in-wg<td>364810<td>5.00 psi<td>378<td>395 FPM<td>800</td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td>	4 <td>TRANE<td>CSAA017<td>PENTHOUSE<td>1,2,3,6,7,8<td>6400<td>3600<td>3.25 in-wg<td>3258<td>AF<td>7.5<td>208 V<td>INTERNAL<td>2800<td>1.5 in-wg<td>2340<td>AF<td>4.02<td>208 V<td>INTERNAL<td>MERV 8<td>35<td>MERV 11<td>65<td>MERV 14<td>95<td>1<td>8<td>141<td>34.9<td>91 °F<td>63 °F<td>52 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Scale bar and revision notes on the left margin.

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CHILLED WATER TANK SCHEDULE									
UNIT TYPE	UNIT NUMBER	MANUFACTURER	MODEL	LOCATION	SERVICE	SIZE			COMMENTS
						GALLONS TOTAL	LENGTH	DIAMETER	
WS	1	WESSELS	HBT-120-22	PENTHOUSE	CHILLED WATER	120	60	24	1,2

- COMMENTS:
- 1 ASME RATED.
 - 2 PROVIDE WITH 1/2" ELASTOMERIC INSULATION AND WEATHER RESISTANT COATING.

EXPANSION TANK SCHEDULE									
UNIT TYPE	UNIT NUMBER	MANUFACTURER	MODEL	LOCATION	SERVICE	SIZE			COMMENTS
						GALLONS TOTAL	ACCEPT	LENGTH	
ET	3	WESSELS CO.	NLA 800L	PENTHOUSE	CHILLED WATER	211	211	76	1,2,3

- COMMENTS:
- 1 INITIAL FACTORY PRECHARGED SETTING SHALL BE 12 PSI.
 - 2 INCLUDE AIR CHARGING VALVE.
 - 3 PROVIDE AUTOMATIC AIRVENT (SEE DETAIL).

FAN SCHEDULE													
UNIT TYPE	UNIT NUMBER	MANUFACTURER	MODEL	LOCATION	SERVICE	VIBRATION ISOLATION	CFM	S.P.D.	HP	VOLTAGE	PHASES	SONES	COMMENTS
EF	1	GREENHECK	CUE-120-VG	ROOF	EXHAUST	INTERNAL	1070	1.00 in-wg	0.5	120	1	14.1	1,2,3,4
EF	2A	GREENHECK	VEKTOR H-16	ROOF	EXHAUST	INTERNAL	2280	2.00 in-wg	3	208	3	15.3	1,7
EF	2B	GREENHECK	VEKTOR H-16	ROOF	EXHAUST	INTERNAL	2280	2.00 in-wg	3	208	3	15.3	1,7
EF	3A	GREENHECK	VEKTOR H-10	ROOF	EXHAUST	INTERNAL	1280	2.00 in-wg	3	208	3	27	1,7
EF	3B	GREENHECK	VEKTOR H-10	ROOF	EXHAUST	INTERNAL	1280	2.00 in-wg	3	208	3	27	1,7
EF	5A	GREENHECK	VEKTOR H-16	ROOF	EXHAUST	INTERNAL	2590	2.00 in-wg	3	208	3	23	1,7
EF	5B	GREENHECK	VEKTOR H-16	ROOF	EXHAUST	INTERNAL	2590	2.00 in-wg	3	208	3	23	1,7
EF	6	GREENHECK	CUE-120-VG	ROOF	EXHAUST	INTERNAL	1210	1.00 in-wg	0.5	120	1	15.3	1,2,3,4
EF	8A	GREENHECK	VEKTOR H-16	ROOF	EXHAUST	INTERNAL	2590	2.00 in-wg	3	208	3	23	1,7
EF	8B	GREENHECK	VEKTOR H-16	ROOF	EXHAUST	INTERNAL	2580	2.00 in-wg	3	208	3	23	1,7
EF	9	GREENHECK	CUE-140-VG	ROOF	EXHAUST	INTERNAL	910	1.00 in-wg	0.5	120	1	11.6	1,2,3,4
EF	10	LOREN COOK	GC-186	ELEVATOR RM	EXHAUST	INTERNAL	150	0.60 in-wg	0.12	120	1	4	1,2,5,6

- COMMENTS:
- 1 PROVIDE WITH STANDARD PREWIRED DISCONNECT.
 - 2 PROVIDE WITH THERMAL OVERLOAD.
 - 3 PROVIDE WITH MOTORIZED DAMPER.
 - 4 PROVIDE WITH ROOF CURB.
 - 5 PROVIDE WITH ANODIZED ALUMINUM GRILLE.
 - 6 PROVIDE VARIABLE SPEED SWITCH.
 - 7 VFD PROVIDED AND INSTALLED BY TEMPERATURE CONTROL CONTRACTOR, WIRED BY DIVISION 26.

LOUVER SCHEDULE											
UNIT TYPE	UNIT NUMBER	MANUFACTURER	MODEL	LOCATION	FUNCTION	SIZE		CFM	S.P.	FREE AIR VELOCITY	COMMENTS
						WIDTH	HEIGHT				
L	1	RUSKIN	EME745	WEST WALL	INTAKE	72"	38"	7000	0.03 in-wg	390 FPM	1,2,3
L	3	RUSKIN	EME745	EAST WALL	INTAKE	54"	44"	4650	0.08 in-wg	590 FPM	1,2,3
L	4	RUSKIN	EME745	EAST WALL	INTAKE	38"	78"	4250	0.04 in-wg	410 FPM	1,2,3
L	5	RUSKIN	ELF6375DX	SOUTH WALL	EXHAUST	54"	36"	7000	0.07 in-wg	950 FPM	1,2,3
L	7	RUSKIN	ELF6375DX	NORTH WALL	EXHAUST	36"	36"	4650	0.11 in-wg	970 FPM	1,2,3
L	8	RUSKIN	ELF6375DX	SOUTH WALL	EXHAUST	56"	42"	4250	0.00 in-wg	460 FPM	1,2,3

- COMMENTS:
- 1 PROVIDE WITH BIRD SCREEN.
 - 2 ARCHITECT TO SELECT COLOR.
 - 3 ALUMINUM CONSTRUCTION WITH BAKED ENAMEL FINISH.

PUMP SCHEDULE														
UNIT TYPE	UNIT NUMBER	MANUFACTURER	MODEL	SERVICE	GPM	HEAD	IMPELLER SIZE	% GLYCOL	HP	VOLTAGE	PHASES	RPM	COMMENTS	
CP	1A	B&G	1510 2BD	HEATING WATER	115	55 FH2O	7.625	30	5	208	3	1750	1,2,3	
CP	1B	B&G	1510 2BD	HEATING WATER	115	55 FH2O	7.625	30	5	208	3	1750	1,2,3	
CWP	3A	B&G	e-1510 2BD	CHILLED WATER	120	70 FH2O	8.375	40	5	208	3	1750	1,2,3	
CWP	3B	B&G	e-1510 2BD	CHILLED WATER	120	70 FH2O	8.375	40	5	208	3	1750	1,2,3	

- COMMENTS:
- 1 NON-OVERLOADING, PREMIUM EFFICIENCY INVERTER DUTY MOTOR.
 - 2 VFD PROVIDED AND INSTALLED BY TEMPERATURE CONTROL CONTRACTOR, WIRED BY DIV 26.
 - 3 PROVIDE SHAFT GROUNDING KITS.

STEAM CONVERTER SCHEDULE																
UNIT TYPE	UNIT NUMBER	MANUFACTURER	MODEL	LOCATION	SERVICE	MSH	GPM	WATER PRES. DROP	EWT	LWT	% GLYCOL	#/HR STEAM	STEAM PRES.	FOULING FACTOR	AREA (SF)	TRAP CAPACITY
HX	1A	ARMSTRONG	WS-0804-200-1-CSSSSNN-2.0	MECH PENTHOUSE	HEATING WATER	1660.4	115	0.06 FH2O	110 °F	140 °F	30	1718.25	0 FH2O	0.000015	37.3	3400
HX	1B	ARMSTRONG	WS-0804-200-1-CSSSSNN-2.0	MECH PENTHOUSE	HEATING WATER	1660.4	115	0.06 FH2O	110 °F	140 °F	30	1718.25	0 FH2O	0.000015	37.3	3400

- COMMENTS:
- 1 HOT WATER SOLUTION BASED ON 30% PROPYLENE GLYCOL.
 - 2 PROVIDE VACUUM BREAKER.
 - 3 PROVIDE MOUNTING RACK(S) FOR CONVERTORS.
 - 4 MAX WATER VELOCITY OF 4.5 FT/SEC.

CONDENSATE RETURN UNIT SCHEDULE								
UNIT TYPE	UNIT NUMBER	MANUFACTURER	MODEL	LOCATION	#/HR STEAM	MOTIVE PRESSURE	BACK PRESSURE	COMMENTS
CR	2	SPIRAX SARCO	ES000202	B25	6000	100 psi	15 psi	1,2,3,4

- COMMENTS:
- 1 PROVIDE WITH PUMP GAUGE GLASS, RECEIVER GAUGE GLASS, PUMP INLET STRAINER, AND PUMP OUTLET VALVE.
 - 2 PROVIDE WITH FITTED REMOVABLE PUMP INSULATION.
 - 3 PROVIDE WITH MOTIVE PIPING CT STRAINER AND STEAM TRAP.
 - 4 PROVIDE WITH PRESSURE REDUCING VALVE ON MOTIVE PIPING.

Revision#

Description

Date:

CONSULTANTS

STRUCTURAL:

MECHANICAL / ELECTRICAL / PLUMBING:

Albertson Engineering, Inc.
3302 W. Main St. #C
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REG. NO. 8462

MICHAEL SEAN HENNINGER

SOUTH DAKOTA

6/10/2022

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title

MECHANICAL SCHEDULES

Approved:

Phase

CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title

RENOVATE AND CONSOLIDATE INPATIENT FUNCTIONS

Location
FORT MEADE, SOUTH DAKOTA

Issue Date
06/10/2022

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Project Number

VA #568-14-110
WPE #BR21020
Building Number
113

Drawing Number

MJ104

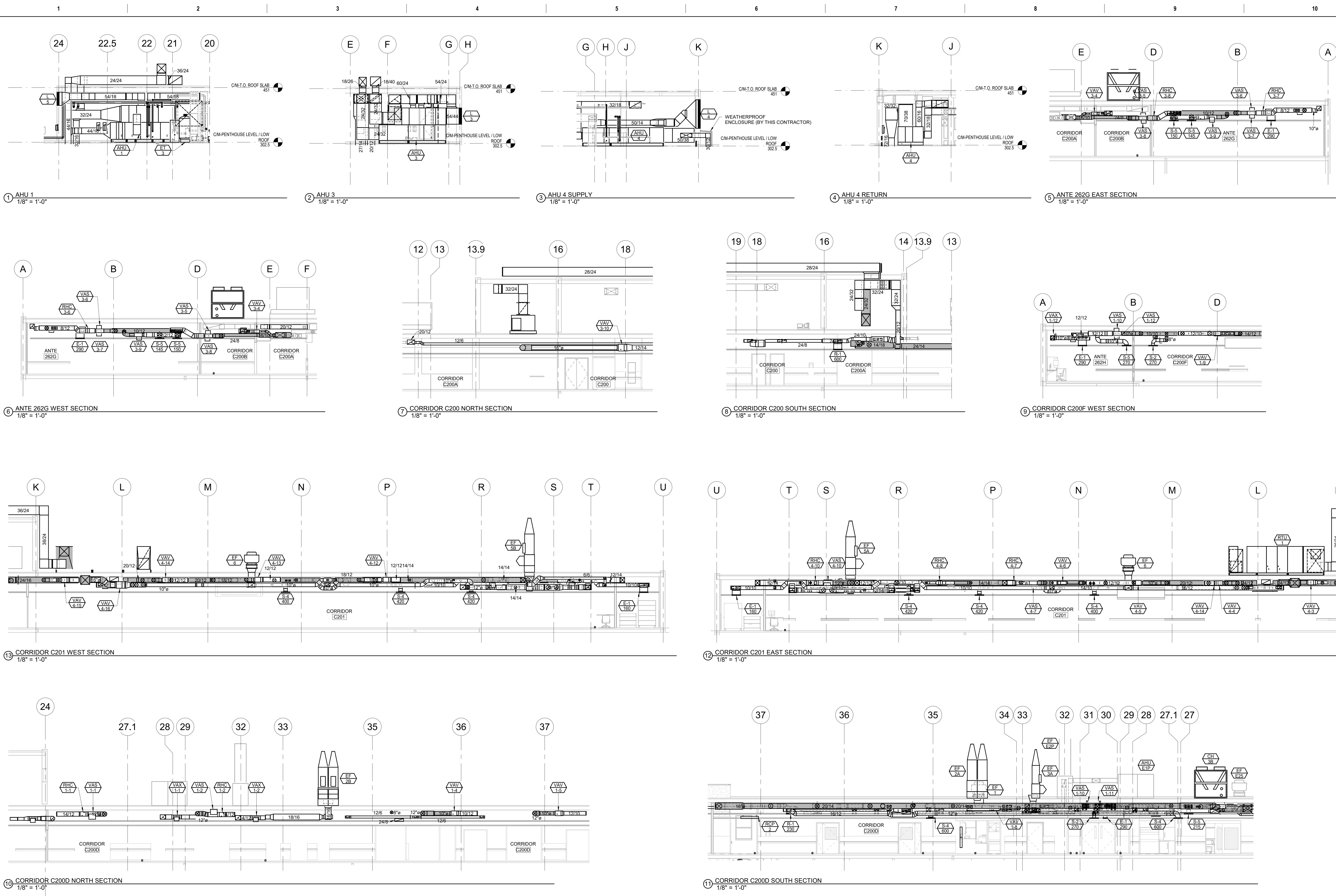
VA FORM 08 - 6231 1 2 3 4 5 6 7 8 9 10

ASHRAE ROOM REQUIREMENTS SCHEDULE

INDOOR TEMP										% RH		CEILING		CODE MINIMUM				ROOM		PROTECTIVE ENVIRONMENT		ROOM PRESSURE				ASHRAE VENTILATION				VA HVAC ROOM DATA SHEET				INDIVIDUAL ROOM CONTROL	
HVAC ZONE	ROOM NUMBER	ROOM NAME	PEOPLE	COOLING DEG F	HEATING DEG F	MAX	MIN	AREA SF	HEIGHT FT	VOLUME CF	ACH	OA ACH	TOTAL CFM	OA CFM	TOTAL CFM	SUPPLY CFM	RETURN CFM	EXHAUST CFM	SUPPLY CFM	EXHAUST CFM	RELATIONSHIP	CONTROL	TABLE	CATEGORY	SUBCATEGORY	SHEET NO.	CATEGORY	SUBCATEGORY	TEMP	FLOW	COMMENTS				
VAS-1-1	253	PAT ROOM - BARIATRIC	2	75	70	N/A	N/A	302	9	2715.7	2	12	360.5	543.1	540	0	590	540	0	150	460	NEGATIVE 2X (SE)	MONITOR & ALARM	7.1 - HS	INPATIENT NURSING	AII ROOM	6-81	INFECTIOUS ISOLATION AND PROTECTIVE ENVIRONMENT	AII ISOLATION ROOM	YES	CONSTANT VOLUME	1			
VAS-1-1	253A	PAT TLT - BAR	0	N/A	N/A	N/A	N/A	94	9	847.45	0	10	0	141.2	0	0	140	140	0	150	140	NEGATIVE 2X (SE)	N/A	7.1 - HS	INPATIENT NURSING	TOILET ROOM	6-37	COMMUNITY CENTER	TNPG1: TOILET - RESIDENT / VISITOR	YES	CONSTANT VOLUME	1			
VAS-1-1	253B	ANTE	0	N/A	N/A	N/A	N/A	68	9	614.29	0	10	0	102.4	110	0	120	110	0	150	140	NEGATIVE 1X (SE)	MONITOR & ALARM	7.1 - HS	INPATIENT NURSING	AII ANTE ROOM	6-81	INFECTIOUS ISOLATION AND PROTECTIVE ENVIRONMENT	AII ANTE ROOM	NO	CONSTANT VOLUME	1			
VAS-1-2	255	PAT ROOM - BARIATRIC	2	75	70	80	20	287	9	2581.81	2	12	86.1	516.4	540	0	590	540	0	150	460	NEGATIVE 2X (SE)	MONITOR & ALARM	7.1 - HS	INPATIENT NURSING	AII ROOM	6-81	INFECTIOUS ISOLATION AND PROTECTIVE ENVIRONMENT	AII ISOLATION ROOM	YES	CONSTANT VOLUME	1			
VAS-1-2	255A	PAT TLT - BAR	0	N/A	N/A	N/A	N/A	99	9	887.75	0	10	0	148	0	0	150	0	150	150	NEGATIVE 2X (SE)	N/A	7.1 - HS	INPATIENT NURSING	TOILET ROOM	6-37	COMMUNITY CENTER	TNPG1: TOILET - RESIDENT / VISITOR	YES	CONSTANT VOLUME	1				
VAS-1-2	255B	ANTE	0	N/A	N/A	N/A	N/A	72	9	693.72	0	10	0	105.5	110	0	120	120	0	150	140	NEGATIVE 1X (SE)	MONITOR & ALARM	7.1 - HS	INPATIENT NURSING	AII ANTE ROOM	6-81	INFECTIOUS ISOLATION AND PROTECTIVE ENVIRONMENT	AII ANTE ROOM	NO	CONSTANT VOLUME	1			
VAV-1-3	257	CLEAN UTILITY	0	N/A	N/A	N/A	N/A	111	9	997.9	0	4	0	66.5	100	0	0	0	0	0	POSITIVE 1X	N/A	7.1 - HS	SERVICE	CLEAN LINEN STORAGE	6-175	NON PATIENT ROOMS - SUPPORT AREAS	CLEAN UTILITY / STORAGE ROOM	NO	CONSTANT VOLUME					
VAV-1-4	260	PATIENT ROOM	2	75	70	80	30	279	9	2512.99	2	6	83.8	251.3	330	220	0	0	0	0	POSITIVE 1X	N/A	7.1 - HS	INPATIENT NURSING	PATIENT ROOM	6-102	NURSING WING	XXXX: PATIENT BEDROOM	YES	VARIABLE AIR VOLUME					
VAV-1-4	260A	PAT TLT	0	N/A	70	N/A	N/A	78	9	698.4	0	10	0	116.4	0	0	120	0	0	0	NEGATIVE 2X (GE)	N/A	7.1 - HS	INPATIENT NURSING	TOILET ROOM	6-37	COMMUNITY CENTER	TNPG1: TOILET - RESIDENT / VISITOR	YES	CONSTANT VOLUME					
VAV-1-5	261	PATIENT ROOM	2	75	70	80	30	254	8	2033.9	2	6	67.8	203.4	330	220	0	0	0	0	POSITIVE 1X	N/A	7.1 - HS	INPATIENT NURSING	PATIENT ROOM	6-102	NURSING WING	XXXX: PATIENT BEDROOM	YES	VARIABLE AIR VOLUME					
VAV-1-5	261A	PAT TLT	0	N/A	70	N/A	N/A	78	9	700.69	0	10	0	116.8	0	0	120	0	0	0	NEGATIVE 2X (GE)	N/A	7.1 - HS	INPATIENT NURSING	TOILET ROOM	6-37	COMMUNITY CENTER	TNPG1: TOILET - RESIDENT / VISITOR	YES	CONSTANT VOLUME					
VAV-1-6	263	PATIENT ROOM	2	75	70	80	30	266	9	2396.45	2	6	79.9	239.8	330	230	0	0	0	0	POSITIVE 1X	N/A	7.1 - HS	INPATIENT NURSING	PATIENT ROOM	6-102	NURSING WING	XXXX: PATIENT BEDROOM	YES	VARIABLE AIR VOLUME					
VAV-1-6	263A	PAT TLT	0	N/A	70	N/A	N/A	74	9	663.56	0	10	0	110.6	0	0	100	0	0	0	NEGATIVE 2X (GE)	N/A	7.1 - HS	INPATIENT NURSING	TOILET ROOM	6-37	COMMUNITY CENTER	TNPG1: TOILET - RESIDENT / VISITOR	YES	CONSTANT VOLUME					
VAV-1-7	264	PATIENT ROOM	2	75	70	80	30	271	9	2442.53	2	6	81.4	244.3	330	210	0	0	0	0	POSITIVE 1X	N/A	7.1 - HS	INPATIENT NURSING	PATIENT ROOM	6-102	NURSING WING	XXXX: PATIENT BEDROOM	YES	VARIABLE AIR VOLUME					
VAV-1-7	264A	PAT TLT	0	N/A	70	N/A	N/A	69	9	805.39	0	10	0	134.2	0	0	140	0	0	0	NEGATIVE 2X (GE)	N/A	7.1 - HS	INPATIENT NURSING	TOILET ROOM	6-37	COMMUNITY CENTER	TNPG1: TOILET - RESIDENT / VISITOR	YES	CONSTANT VOLUME					
VAV-1-8	265	NURSE	4	75	70	80	30	324	9	2913.11	2	6	97.1	291.3	300	300	0	0	0	0	NEUTRAL	N/A	N/A	N/A	6-102	NURSING WING	NSTA1: NURSES STATION	YES	VARIABLE AIR VOLUME						
VAV-1-9	269	PATIENT ROOM - ICU	2	75	70	80	30	215	9	1935.03	2	6	64.5	193.5	250	140	0	0	0	0	POSITIVE 1X	N/A	7.1 - HS	SURGERY AND CRITICAL CARE	CRITICAL AND INTENSIVE CARE	6-102	NURSING WING	BRIC1: PATIENT BEDROOM, INTENSIVE CARE	YES	VARIABLE AIR VOLUME					
VAV-1-9	269A	PAT TLT	0	N/A	70	N/A	N/A	81	9	732.07	0	10	0	122.1	0	0	140	0	0	0	NEGATIVE 2X (GE)	N/A	7.1 - HS	INPATIENT NURSING	TOILET ROOM	6-37	COMMUNITY CENTER	TNPG1: TOILET - RESIDENT / VISITOR	YES	CONSTANT VOLUME					
VAS-1-10	270	PATIENT ROOM - ICU / ISO	2	75	70	80	20	238	9	2141.6	2	12	71.4	428.3	430	0	480	430	0	480	430	NEGATIVE 2X (SE)	MONITOR & ALARM	7.1 - HS	INPATIENT NURSING	AII ROOM	6-81	INFECTIOUS ISOLATION AND PROTECTIVE ENVIRONMENT	AII ISOLATION ROOM	YES	CONSTANT VOLUME	1			
VAS-1-10	270A	PAT TLT	0	N/A	70	N/A	N/A	90	9	811.38	0	10	0	135.2	0	0	140	0	0	0	NEGATIVE 2X (SE)	N/A	7.1 - HS	INPATIENT NURSING	TOILET ROOM	6-37	COMMUNITY CENTER	TNPG1: TOILET - RESIDENT / VISITOR	YES	CONSTANT VOLUME	1				
VAS-1-11	262H	ANTE	0	N/A	N/A	N/A	N/A	197	8	1574.96	0	10	0	262.5	270	0	290	270	0	290	270	NEGATIVE 1X (SE)	MONITOR & ALARM	7.1 - HS	INPATIENT NURSING	AII ANTE ROOM	6-81	INFECTIOUS ISOLATION AND PROTECTIVE ENVIRONMENT	AII ANTE ROOM	NO	CONSTANT VOLUME	1			
VAS-1-12	271	PATIENT ROOM - ICU	2	75	70	80	20	237	9	2129.94	2	12	71	426	430	0	480	430	0	480	430	NEGATIVE 2X (SE)	MONITOR & ALARM	7.1 - HS	INPATIENT NURSING	AII ROOM	6-81	INFECTIOUS ISOLATION AND PROTECTIVE ENVIRONMENT	AII ISOLATION ROOM	YES	CONSTANT VOLUME	1			
VAS-1-12	271A	PAT TLT	0	N/A	70	N/A	N/A	78	9	699.7	0	10	0	116.6	0	0	110	0	0	0	NEGATIVE 2X (SE)	N/A	7.1 - HS	INPATIENT NURSING	TOILET ROOM	6-37	COMMUNITY CENTER	TNPG1: TOILET - RESIDENT / VISITOR	YES	CONSTANT VOLUME	1				
VAV-1-13	272	PATIENT ROOM - ICU	2	75	70	80	30	228	9	2050.28	2	6	68.3	205	300	190	0	0	0	0	POSITIVE 1X	N/A	7.1 - HS	SURGERY AND CRITICAL CARE	CRITICAL AND INTENSIVE CARE	6-102	NURSING WING	BRIC1: PATIENT BEDROOM, INTENSIVE CARE	YES	VARIABLE AIR VOLUME					
VAV-1-13	272A	PAT TLT	0	N/A	70	N/A	N/A	79	9	708.73	0	10	0	115.1	0	0	120	0	0	0	NEGATIVE 2X (SE)	N/A	7.1 - HS	INPATIENT NURSING	TOILET ROOM	6-37	COMMUNITY CENTER	TNPG1: TOILET - RESIDENT / VISITOR	YES	CONSTANT VOLUME					
VAV-1-14	273	MEDS	1	75	70	80	20	98	7.5	736.95	2	4	24.6	49.1	50	0	0	0	0	0	POSITIVE 1X	N/A	7.1 - HS	DIAGNOSTIC AND TREATMENT	MEDICATION ROOM	6-102	NURSING WING	MEDP1: MEDICATION ROOM	YES	VARIABLE AIR VOLUME					
VAS-1-15	274	PATIENT ROOM	2	75	70	80	20	287	9	2585.01	2	12	86.2	517	430	0	480	430	0	480	430	NEGATIVE 2X (SE)	MONITOR & ALARM	7.1 - HS	INPATIENT NURSING	AII ROOM	6-81	INFECTIOUS ISOLATION AND PROTECTIVE ENVIRONMENT	AII ISOLATION ROOM	YES	CONSTANT VOLUME	1			
VAS-1-15	274A	PAT TLT	0	N/A	70	N/A	N/A	79	9	712.87	0	10	0	118.8	0	0	120	0	0	0	NEGATIVE 2X (SE)	N/A	7.1 - HS	INPATIENT NURSING	TOILET ROOM	6-37	COMMUNITY CENTER	TNPG1: TOILET - RESIDENT / VISITOR	YES	CONSTANT VOLUME	1				
VAS-1-15	275	ANTE	0	N/A	N/A	N/A	N/A	76	8.5	644.38	0	10	0	107.4	110	0	120	110	0	120	110	NEGATIVE 1X (SE)	MONITOR & ALARM	7.1 - HS	INPATIENT NURSING	AII ANTE ROOM	6-81	INFECTIOUS ISOLATION AND PROTECTIVE ENVIRONMENT	AII ANTE ROOM	NO	CONSTANT VOLUME	1			
VAV-1-16	280	UNIT CLERK/STAFF	4	75	70	80	20	328	9	2956.22	2	4	98.5	197	500	500	0	0	0	0	NEUTRAL	N/A	N/A	N/A	6-173	NON PATIENT ROOMS - SUPPORT AREAS	NON PATIENT ROOMS - SUPPORT AREAS	YES	VARIABLE AIR VOLUME						
VAV-1-18	249	EQUIP - STOR	0	70	70	80	20	155	9	1396.47	4	4	93.1	93.1	0	0	100	0	0	0	POSITIVE 1X	N/A	7.1 - HS	SUPPORT SPACE	CLEAN WORKROOM OR CLEAN HOLDING	6-175	NON PATIENT ROOMS - MISCELLANEOUS AREAS	CLEAN UTILITY/STORAGE ROOM	YES	CONSTANT VOLUME					
VAV-1-17	256	STAFF TLT	0	N/A	68	N/A	N/A	71	8	564.44	0	10	0	94.1	0	0	100	0	0	0	NEGATIVE 2X (GE)	N/A	7.1 - HS	INPATIENT NURSING	TOILET ROOM	6-38	COMMUNITY CENTER	TNPG1: STAFF TOILET	YES	CONSTANT VOLUME					
VAV-1-17	262A	STORAGE	0	N/A	N/A	N/A	N/A	80	9	717.74	0	4	0	47.8	100	0	0	0	0	0	POSITIVE 1X	N/A	7.1 - HS	SERVICE	CLEAN LINEN STORAGE	6-175									

Three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
one quarter inch = one foot
three eighths inch = one foot
one eighth inch = one foot

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Revision#	Description	Date:

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STONE GROUP
ARCHITECTS

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