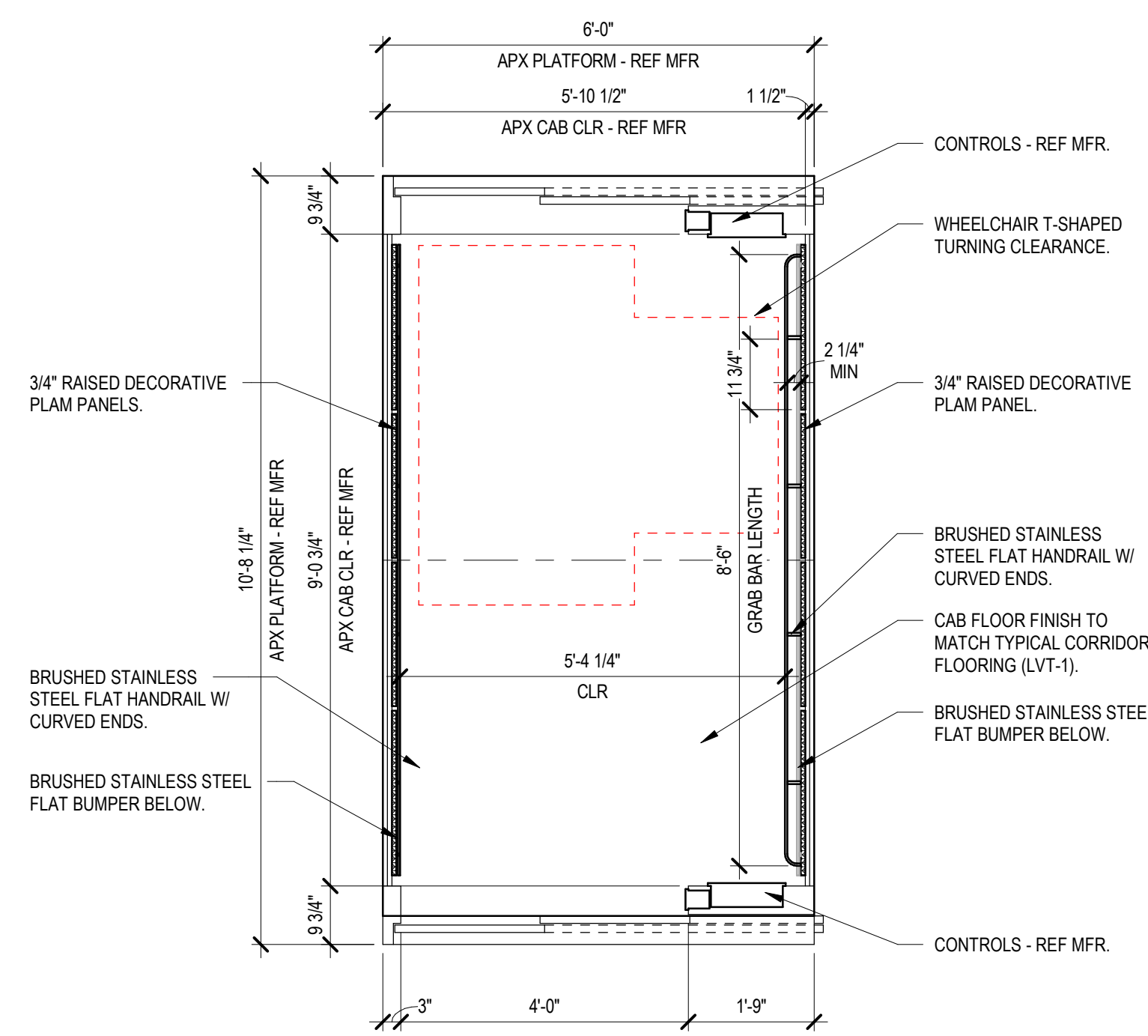


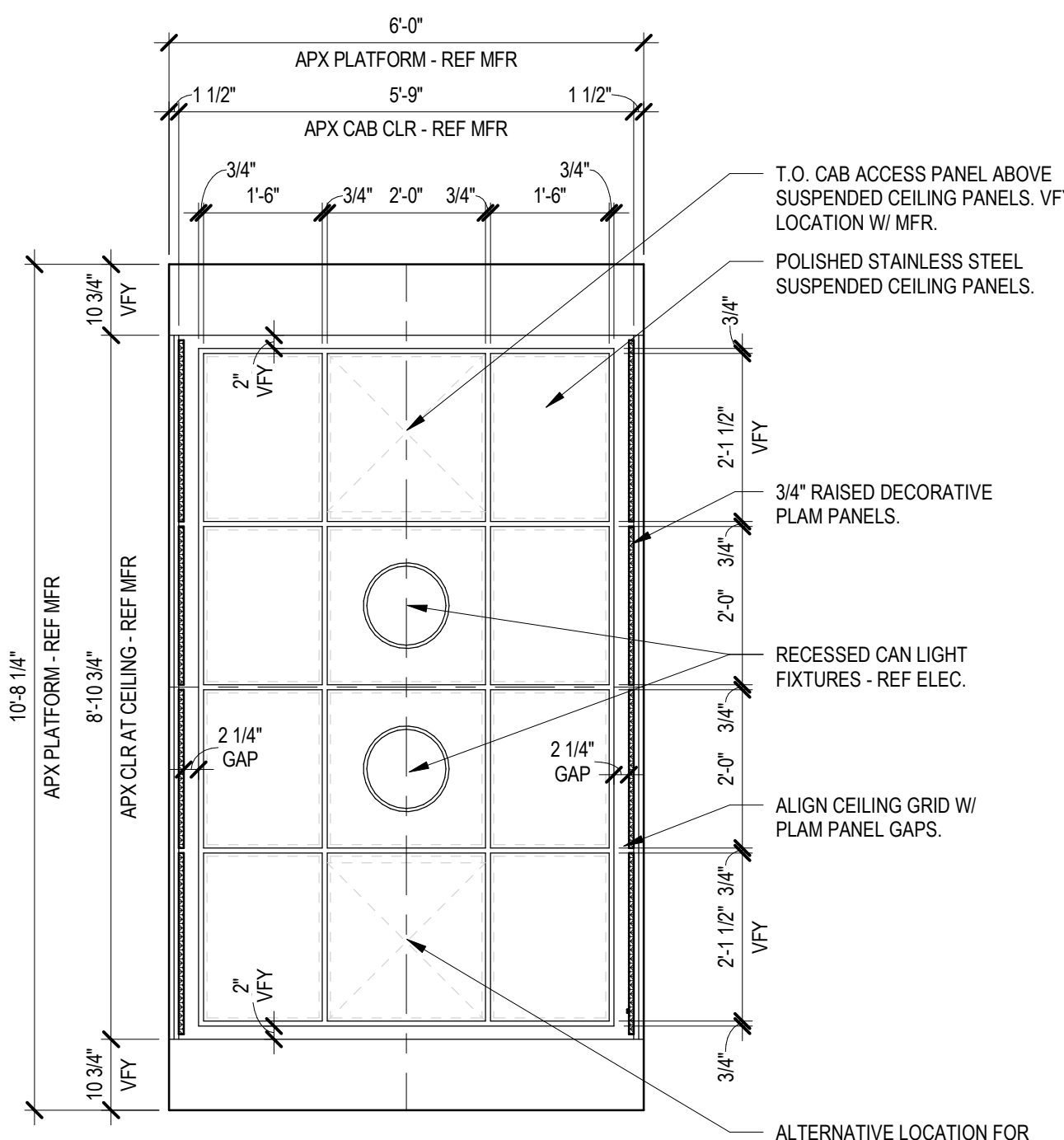
THREE INCHES - ONE FOOT (3" = 1'-0")
ONE AND ONE HALF INCHES - ONE FOOT (1 1/2" = 1'-0")
ONE INCH - ONE FOOT (1" = 1'-0")
THREE QUARTERS INCH - ONE FOOT (3/4" = 1'-0")
ONE HALF INCH - ONE FOOT (1/2" = 1'-0")
ONE QUARTER INCH - ONE FOOT (1/4" = 1'-0")
ONE EIGHTH INCH - ONE FOOT (1/8" = 1'-0")

6/22/2025 3:44:28 PM

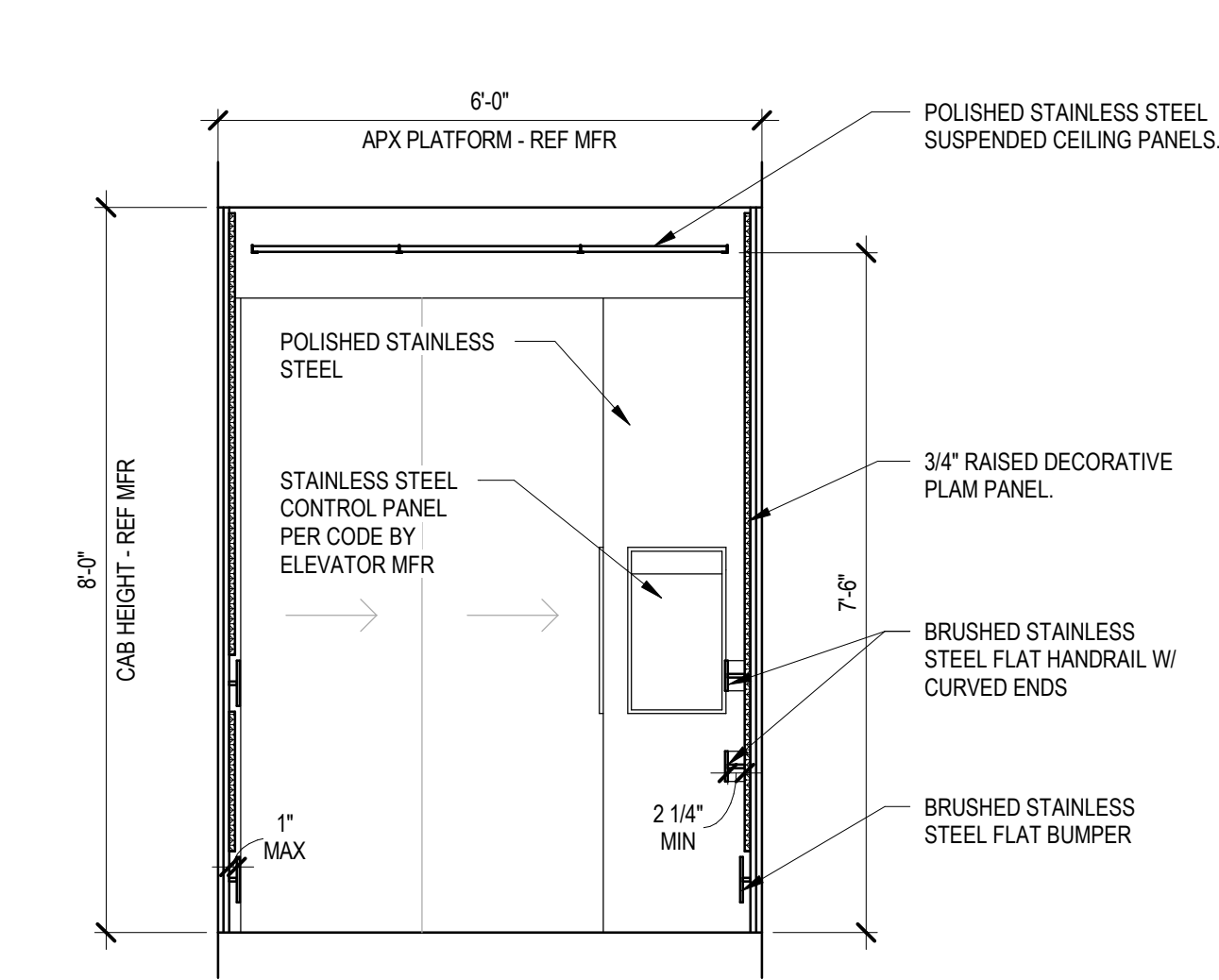
C:\Users\K\OneDrive\Documents\21921 Dom Reno Building 3 - Jylo\A01\JHU\nt



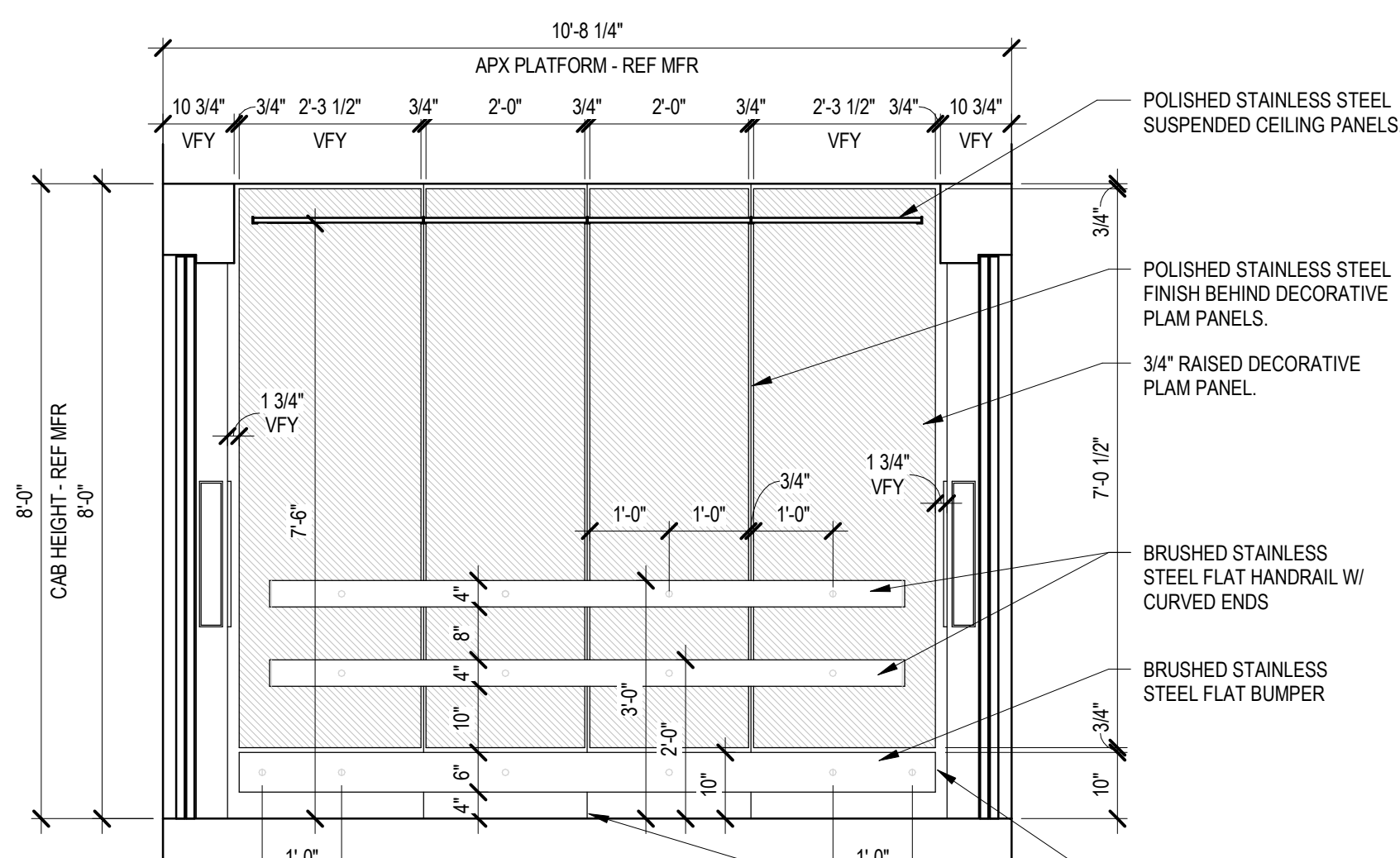
C1 ELEVATOR CAB - FLOOR PLAN
1/2" = 1'-0"



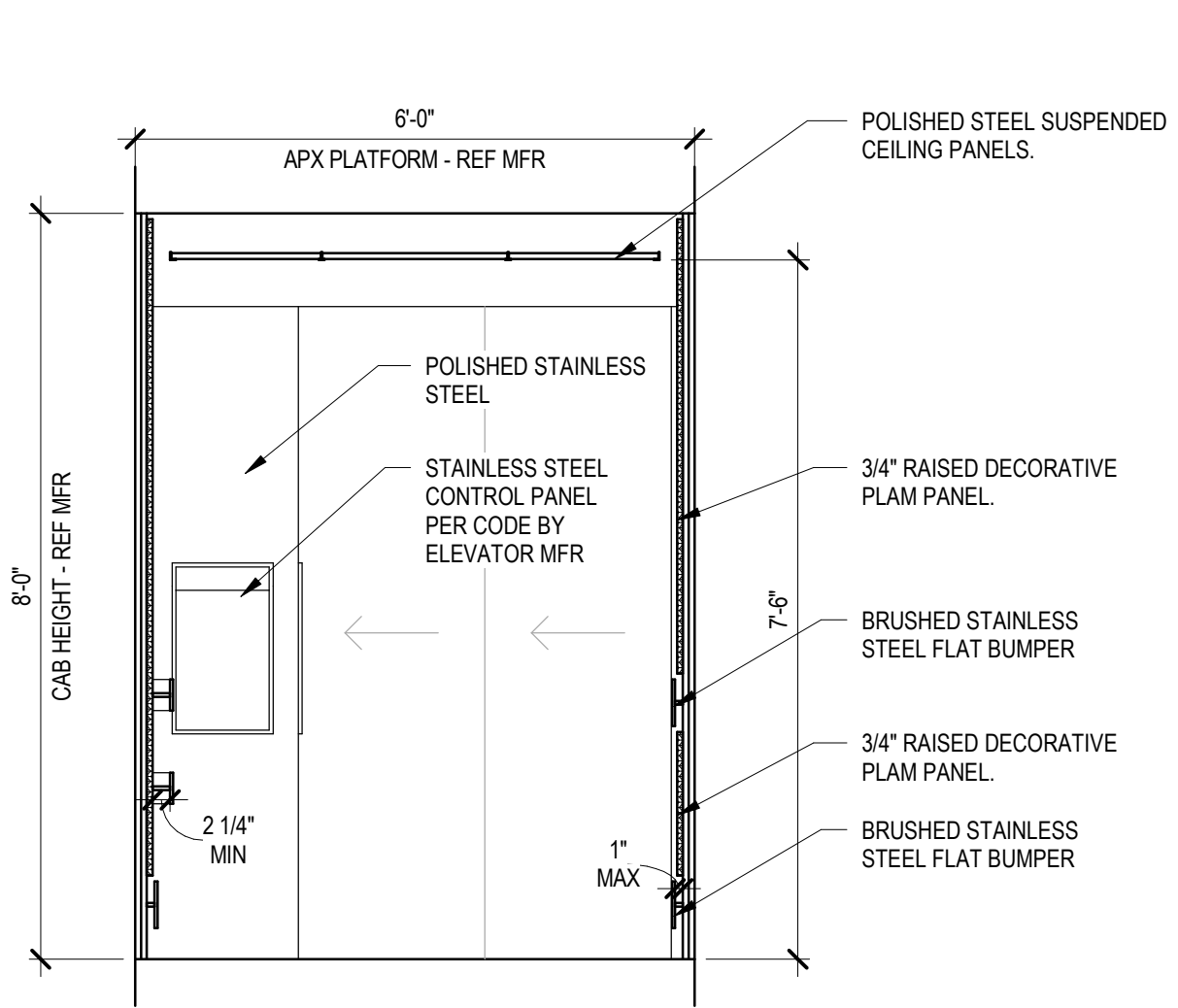
C2 ELEVATOR CAB - RCP
1/2" = 1'-0"



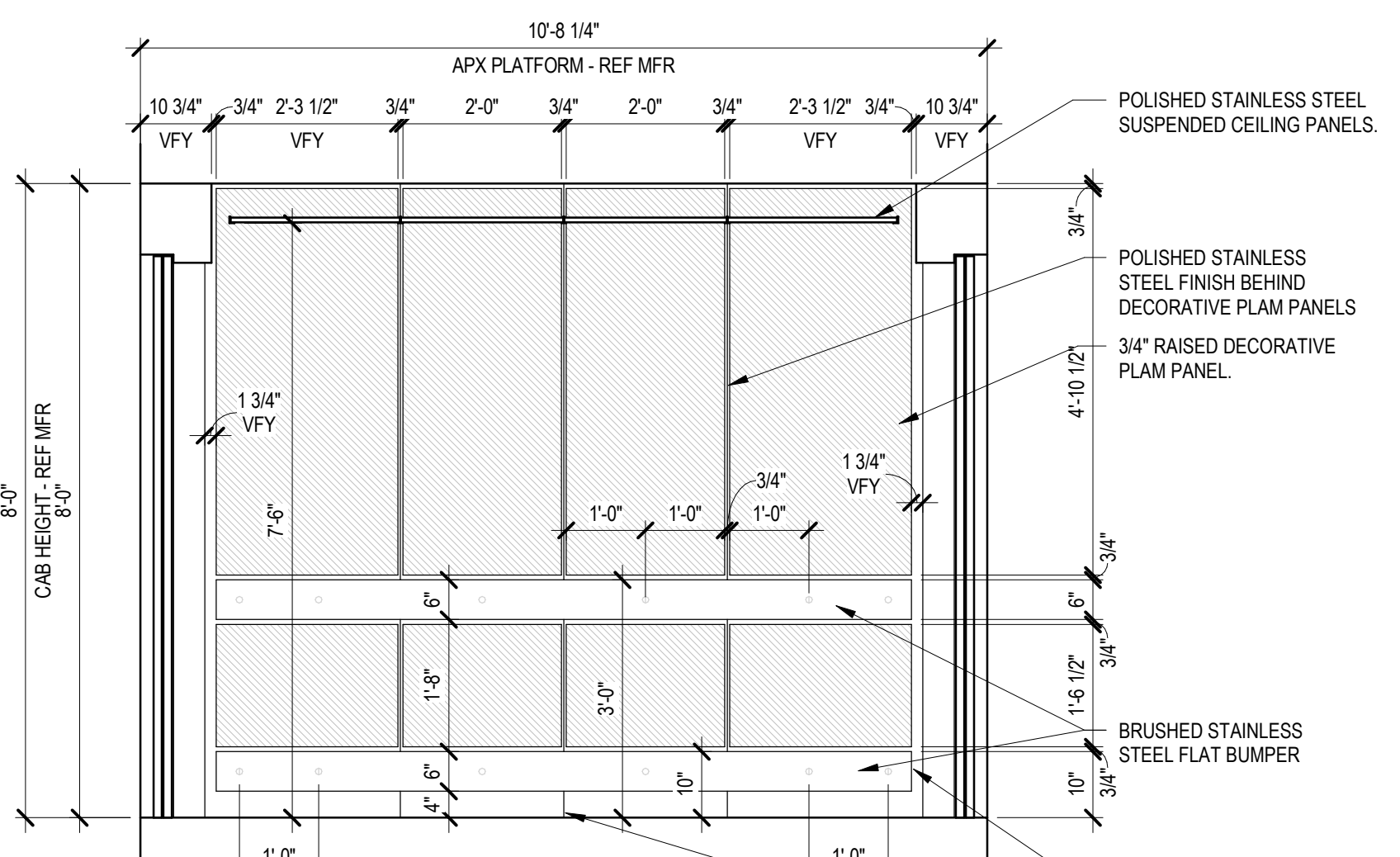
D1 ELEVATOR CAB - INTERIOR ELEVATION - SIDE A
1/2" = 1'-0"



D2 ELEVATOR CAB - INTERIOR ELEVATION - SIDE B
1/2" = 1'-0"



D4 ELEVATOR CAB - INTERIOR ELEVATION - SIDE C
1/2" = 1'-0"

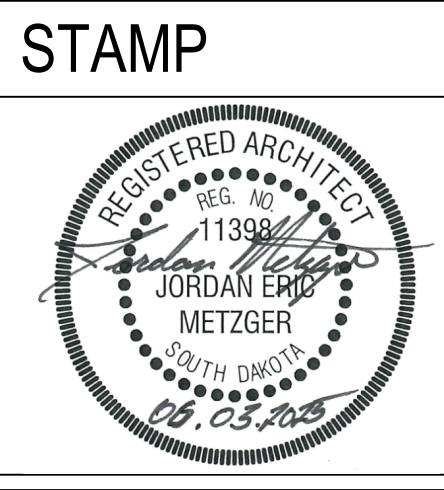


D5 ELEVATOR CAB - INTERIOR ELEVATION - SIDE D
1/2" = 1'-0"

ISSUE #	BID DOCUMENTS	DATE
1	BID DOCUMENTS	06/03/2025

CONSULTANTS	
STRUCTURAL: ALBERTSON ENGINEERING, INC. 3202 W. MAIN ST., #C RAPID CITY, SD 57702 605-343-9606 STEPHEN KILBER	MEP: WEST PLAINS ENGINEERING, INC. 1750 RAND ROAD RAPID CITY, SD 57702 605-348-7455 MIKE SIGMAN (ELEC) MICHAEL HEINRICH (MECH)

DESIGNER OF RECORD
A/E: STONE GROUP ARCHITECTS 600 EAST 7TH ST. SIOUX FALLS, SD 57103 605-271-1144 TODD STONE



Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title ELEVATOR CAB DETAILS
Approved DOUG SPRINKLE

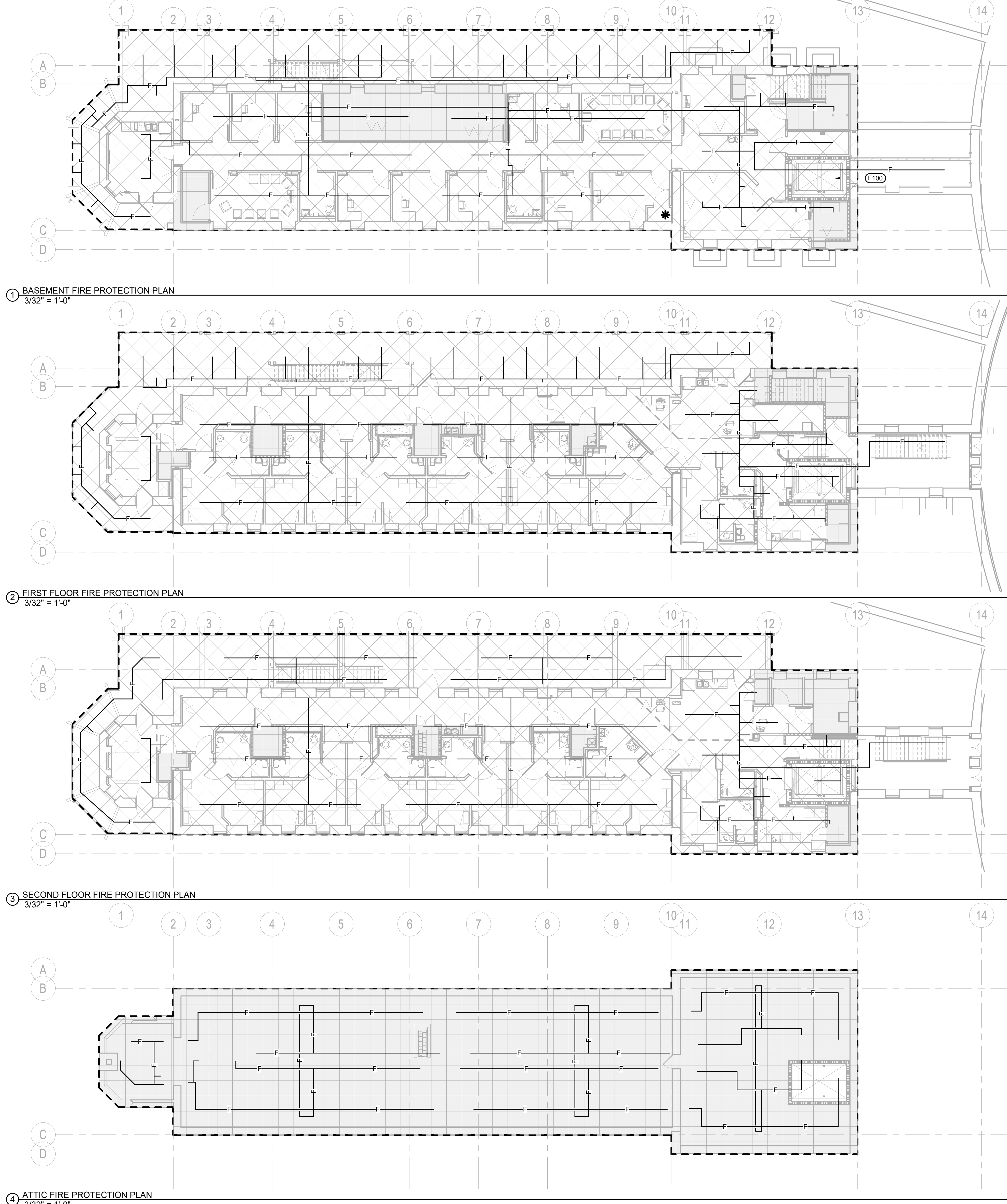
Phase BID DOCUMENTS
FULLY SPRINKLERED

Project Title DOM RENOVATION FOR SEMIPRIVATE ROOMS
Location HOT SPRINGS, SD
Issue Date 06/03/2025
Checked JM/GB/TM
Drawn TL/KK

Project Number VA #568A4-21-208 SGA #211921
Building Number 8
Drawing Number A1801

THREE INCHES - ONE FOOT (3" = 1'-0")
ONE AND ONE HALF INCHES - ONE FOOT (1 1/2" = 1'-0")
ONE INCH - ONE FOOT (1" = 1'-0")
THREE QUARTERS INCH - ONE FOOT (3/4" = 1'-0")
ONE HALF INCH - ONE FOOT (1/2" = 1'-0")
THREE EIGHTHS INCH - ONE FOOT (3/8" = 1'-0")
ONE QUARTER INCH - ONE FOOT (1/4" = 1'-0")
ONE EIGHTH INCH - ONE FOOT (1/8" = 1'-0")

C:\Real\Local\Files\2022\BPC21035 Hot Springs Corralary Renovation Building 3-MEP25 Central Jordan jordan.nrt
6/22/2025 9:45:17 AM



- Legend:
- LIGHT HAZARD
 - ORDINARY HAZARD
 - SCOPE OF WORK BOUNDARY FOR REMOVAL AND REPLACEMENT OF EXISTING FIRE PROTECTION PIPING
 - APPROXIMATE LOCATION OF FIRE SERVICE ENTRANCE

- FIRE SPRINKLER PLAN NOTES**
- A. ENTIRE BUILDING SHALL BE PROTECTED BY A FIRE SPRINKLER SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 13 AND THE AUTHORITY HAVING JURISDICTION (DRY SYSTEM TO SERVE THE ATTIC AND PORCHES AND A WET SYSTEM FOR ALL OTHER AREAS).
- B. THE CONTRACTOR SHALL MODIFY THE EXISTING FIRE SPRINKLER SYSTEM TO PROVIDE COVERAGE FOR NEW ROOMS AND SPACES IN THIS REMODEL PROJECT. THE EXISTING FIRE SPRINKLER RISER SHALL REMAIN.
- C. BUILDING OCCUPANCY/COMMODITY CLASSIFICATION IS LIGHT HAZARD FOR RESIDENT ROOMS, OFFICES, AND CORRIDORS, AND ORDINARY HAZARD FOR MECHANICAL ROOMS AND STORAGE ROOMS. ALL FIRE SPRINKLER PROTECTION OF BUILDING SHALL BE CONSIDERED AS SUCH. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR BUILDING CONSTRUCTION TYPE, OCCUPANCY, BUILDING CROSS SECTIONS, AND CEILING LAYOUT.
- D. FOLLOWING COMPLETION OF CONSTRUCTION, THE FIRE SPRINKLER CONTRACTOR SHALL PROVIDE A WRITTEN LETTER INDICATING SYSTEM HAS BEEN INSTALLED AND TESTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND THE APPROPRIATE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) REQUIREMENTS. ALSO INCLUDE A COPY OF THE INSPECTION REPORT FROM THE AUTHORITY HAVING JURISDICTION.
- E. COORDINATE LOCATION OF ALL SPRINKLER HEADS AND PIPING WITH ALL OTHER TRADES. IF CONFLICTS DO OCCUR SUCH THAT LIGHTS, DUCTWORK OR CEILING SYSTEMS CANNOT BE INSTALLED DUE TO SPRINKLER PIPING INTERFERENCE, THE PIPING SHALL BE RELOCATED AT NO ADDITIONAL EXPENSE TO THE PROJECT.
- F. STATIC PRESSURE AT THE SERVICE ENTRANCE IS ESTIMATED TO BE 90 PSI WITH A RESIDUAL PRESSURE/FLOW ESTIMATED AT 47 PSI/415 GPM LOCATED IN BUILDING 8 WHERE SHOWN. SIZE PIPING TO PROVIDE A MINIMUM OF 10% FACTOR OF SAFETY FOR SYSTEM PRESSURE. PROVIDE INDICATION IN WRITING TO A/E NO LATER THAN SEVEN DAYS PRIOR TO BID IF WATER PRESSURE/FLOW IS NOT SUFFICIENT FOR SYSTEM REQUIREMENTS. CONTRACTOR TO CONFIRM ACTUAL SYSTEM FLOW/PRESSURE PRIOR TO HYDRAULIC CALCULATIONS.
- G. ROUTING OF THE FIRE SPRINKLER PIPING IS BASED ON AS-BUILTS FROM 8/18/03. CONTRACTOR TO FIELD VERIFY THE ACTUAL ROUTE OF THE EXISTING FIRE SPRINKLER PIPING.
- MECHANICAL SPECIFIC NOTES**
- F100. PROVIDE FLOW SWITCH ON FIRE SPRINKLER PIPING SERVING THE BOTTOM OF THE ELEVATOR SHAFT FOR CONNECTION TO SHUNT TRIP BREAKER PROVIDED BY THE FIRE ALARM CONTRACTOR.

1	BID DOCUMENTS	06/03/25
ISSUE #	DESCRIPTION	DATE

CONSULTANTS

STRUCTURAL:
ALBERTSON ENGINEERING, INC.
3202 W. MAIN ST., #C
RAPID CITY, SD 57702
605-343-9606
STEPHEN KILBER

MEP:
WEST PLAINS ENGINEERING, INC.
1750 RAND ROAD
RAPID CITY, SD 57702
605-348-7455
MIKE SIGMAN (ELEC)
MICHAEL HEINRICH (MECH)

Albertson Engineering Inc.

DESIGNER OF RECORD

A/E:
Stone Group Architects
600 E. 7th Street
Sioux Falls, SD 57103
phone: 605.271.1144
stonegrouparchitects.com

STONE GROUP ARCHITECTS

STAMP

REGISTERED PROFESSIONAL ENGINEER
REG. NO. 8462
MICHAEL SEAN HEINRICH
SOUTH DAKOTA
6/22/2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
FIRE PROTECTION PLANS

Approved
DOUG SPRINKLE

Phase
100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title
DOM RENOVATION FOR SEMIPRIVATE ROOMS

Location
HOT SPRINGS, SOUTH DAKOTA

Issue Date
06/03/2025

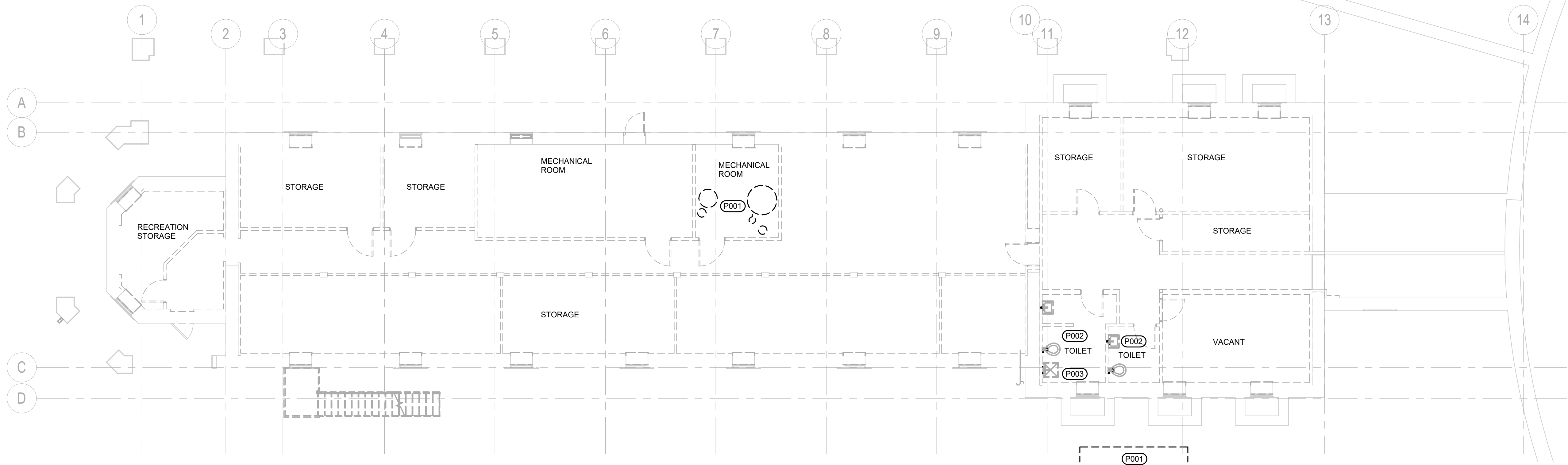
Checked
DLD

Drawn
TAJ

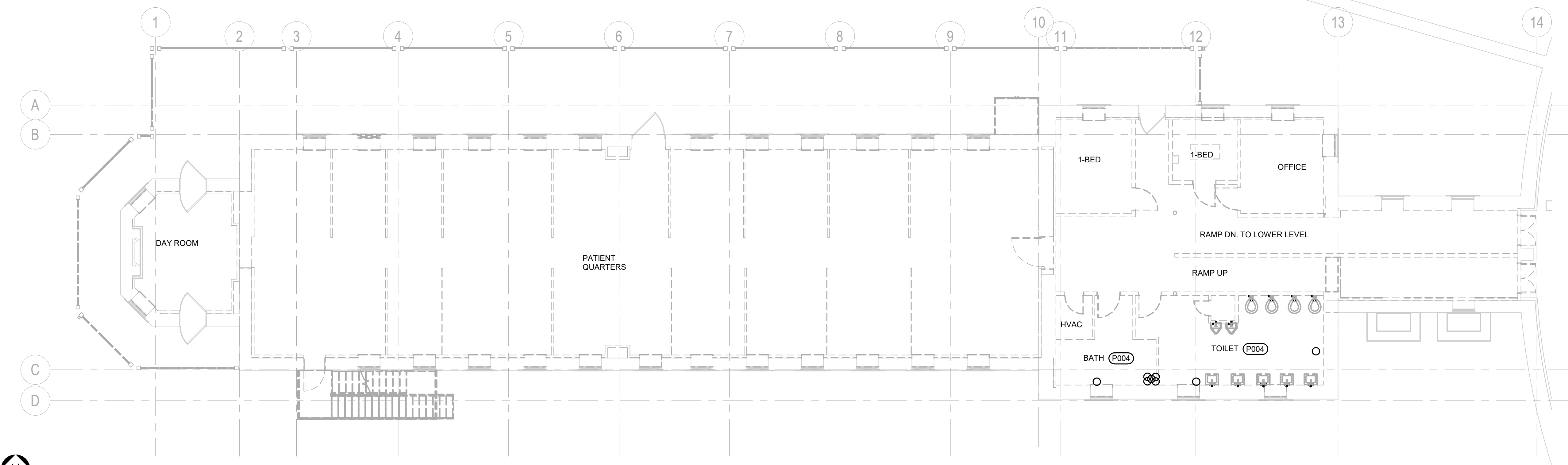
Project Number
VA #568A4-21-208
SGA #BR21039

Building Number
8

Drawing Number
FX-101



1 BASEMENT PLUMBING DEMOLITION PLAN
1/8" = 1'-0"



2 FIRST FLOOR PLUMBING DEMOLITION PLAN
1/8" = 1'-0"

- MISCELLANEOUS DEMOLITION NOTES**
- A. COORDINATE PHASING AND REMOVAL OF EXISTING PIPING, DUCTWORK AND EQUIPMENT WITH OWNER.
 - B. OWNER SHALL HAVE FIRST RIGHT OF SALVAGE. ALL UNWANTED ITEMS SHALL BE COMPLETELY REMOVED FROM SITE AND DISPOSED OF LEGALLY.
 - C. CONTRACTOR SHALL REMOVE ALL EQUIPMENT, DUCTWORK AND PIPING THAT IS DASHED ON PLANS.
- MECHANICAL SPECIFIC NOTES**
- P001 REFER TO SHEET MD-101, BASEMENT PIPING DEMOLITION PLAN FOR WORK IN THIS AREA.
 - P002 REMOVE EXISTING PLUMBING FIXTURES AND ASSOCIATED PLUMBING PIPING IN ITS ENTIRETY WITHIN THIS ROOM. REFER TO SHEET PP-101, BELOW FLOOR BASEMENT WASTE & VENT PLAN AND SHEET PP-104, BASEMENT PLUMBING PLAN FOR NEW WORK IN THIS AREA.
 - P003 CONTRACTOR TO LOCATE EXISTING UNDERFLOOR WASTE PIPE AND PREPARE AREA TO RECEIVE NEW WORK AS SHOWN ON SHEET PP-101, BELOW FLOOR BASEMENT WASTE & VENT PLAN.
 - P004 REMOVE EXISTING PLUMBING FIXTURES AND ASSOCIATED PLUMBING PIPING IN ITS ENTIRETY WITHIN THIS ROOM. REFER TO SHEET PP-102, FIRST FLOOR WASTE & VENT PLAN AND SHEET PP-104, FIRST FLOOR PLUMBING PLAN FOR NEW WORK IN THIS AREA.

1	BID DOCUMENTS	06/03/25
ISSUE #	DESCRIPTION	DATE

CONSULTANTS

STRUCTURAL:
ALBERTSON ENGINEERING, INC.
3202 W. MAIN ST., #C
RAPID CITY, SD 57702
605-343-9606
STEPHEN KILBER

MEP:
WEST PLAINS ENGINEERING, INC.
1750 RAND ROAD
RAPID CITY, SD 57702
605-348-7455
MIKE SIGMAN (ELEC)
MICHAEL HEINRICH (MECH)

WPE WEST PLAINS ENGINEERING, INC.

DESIGNER OF RECORD

A/E:
Stone Group Architects
600 E. 7th Street
Sioux Falls, SD 57103
phone: 605.271.1144
stonegrouparchitects.com

STAMP

REGISTERED PROFESSIONAL ENGINEER
REG. NO. 8462
MICHAEL SEAN HEINRICH
STATE OF SOUTH DAKOTA
12/15/2019

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
BASEMENT & FIRST FLOOR PLUMBING DEMOLITION PLANS

Approved
DOUG SPRINKLE

Phase
100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title
DOM RENOVATION FOR SEMIPRIVATE ROOMS

Location
HOT SPRINGS, SOUTH DAKOTA

Issue Date
06/03/2025

Checked
MSH

Drawn
TAJ

Project Number
VA #568A4-21-208
SGA #BR21039
Building Number
8

Drawing Number
PD-101

THREE INCHES - ONE FOOT (3" = 1'-0")
ONE AND ONE HALF INCHES - ONE FOOT (1 1/2" = 1'-0")
ONE INCH - ONE FOOT (1" = 1'-0")
THREE QUARTERS INCH - ONE FOOT (3/4" = 1'-0")
ONE HALF INCH - ONE FOOT (1/2" = 1'-0")
THREE EIGHTHS INCH - ONE FOOT (3/8" = 1'-0")
ONE QUARTER INCH - ONE FOOT (1/4" = 1'-0")
ONE EIGHTH INCH - ONE FOOT (1/8" = 1'-0")
C:\Real\Loaf\Draw\2022\BPR1035 Hot Springs Corralley Renovation Building 3 MEP25 Central_Timber.janet.plt
06/20/25 9:42:26 AM



1 BELOW FLOOR BASEMENT WASTE & VENT PLAN
1/8" = 1'-0"



2 BASEMENT WASTE & VENT PLAN
1/8" = 1'-0"

MISCELLANEOUS WASTE AND VENT NOTES

- A COORDINATE LOCATIONS OF PIPING WITH OTHER TRADES. DO NOT ROUTE PIPING ABOVE ELECTRICAL PANELS. MAINTAIN ALL CODE REQUIRED CLEARANCES.
- B PIPING SHOWN FOR CLARITY. ROUTE ALL PIPING ABOVE CEILING. IN CHASES, AND IN WALLS AS REQUIRED.
- C COORDINATE LOCATION OF ALL UNDERGROUND PIPING WITH FOOTINGS AND FOUNDATIONS. SLEEVE AS REQUIRED.
- D ALL PIPING WORK SHALL BE COORDINATED WITH ALL OTHER TRADES. OFFSETS IN PIPING AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE PROJECT.
- E COORDINATE LOCATION OF ALL FLOOR DRAINS WITH LOCATION OF MECHANICAL EQUIPMENT. COORDINATE LOCATION WITH GENERAL CONTRACTOR.
- F PROVIDE CLEANOUTS AS REQUIRED BY CODE AND AUTHORITY HAVING JURISDICTION. PROVIDE CLEANOUTS IN ALL VERTICAL PIPING THAT PASSES THROUGH THE FLOOR INTO THE CRAWL SPACE.
- G COORDINATE LOCATION OF ALL CLEANOUTS FOR ACCESSIBILITY. ALL CLEANOUTS SHALL BE ACCESSIBLE FROM THE MAIN FLOOR. COORDINATE HEIGHT OF WALL CLEANOUTS TO BE ACCESSIBLE AND TO NOT CONFLICT WITH ARCHITECTURAL ELEMENTS (GRAB BARS, COVE BASE, ETC.).

MECHANICAL SPECIFIC NOTES

- P100 CONNECT NEW 4" SAN TO EXISTING IN THIS AREA. CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING PIPING.
- P101 4" SAN DOWN FROM WATER CLOSET. 2" SAN DOWN AND 1-1/2" VENT UP FROM FLOOR DRAIN ON BASEMENT LEVEL. REFER TO BASEMENT WASTE & VENT PLAN ON THIS SHEET FOR CONTINUATION.
- P102 2" SAN DOWN FROM LAVATORY (OR WATER CHILLER) ON BASEMENT LEVEL. REFER TO BASEMENT WASTE & VENT PLAN ON THIS SHEET FOR CONTINUATION.
- P103 2" SAN DOWN FROM SINK ON BASEMENT LEVEL. REFER TO BASEMENT WASTE & VENT PLAN ON THIS SHEET FOR CONTINUATION.
- P104 3" SAN DOWN AND 1-1/2" VENT UP FROM SERVICE SINK ON BASEMENT LEVEL. REFER TO BASEMENT WASTE & VENT PLAN ON THIS SHEET FOR CONTINUATION.
- P105 4" SAN DOWN AND 2" VENT UP FROM FLOOR DRAIN ON BASEMENT LEVEL. REFER TO BASEMENT WASTE & VENT PLAN ON THIS SHEET FOR CONTINUATION.
- P106 4" SAN DOWN AND 2" VENT UP FROM FLOOR SINK ON BASEMENT LEVEL. REFER TO BASEMENT WASTE & VENT PLAN ON THIS SHEET FOR CONTINUATION.
- P107 4" SAN DOWN FROM BASEMENT. REFER TO BASEMENT WASTE & VENT PLAN ON THIS SHEET FOR CONTINUATION.
- P108 REFER TO SIMPLEX EJECTOR DETAIL ON SHEET PJ-101.
- P109 2" PD UP TO BASEMENT. REFER TO BASEMENT WASTE & VENT PLAN ON THIS SHEET FOR CONTINUATION.
- P110 4" SAN DOWN THROUGH FLOOR. REFER TO BELOW FLOOR BASEMENT WASTE & VENT PLAN ON THIS SHEET FOR CONTINUATION.
- P111 4" SAN DOWN AND 2" VENT UP FROM WATER CLOSET ON FIRST FLOOR. REFER TO SHEET PP-102, FIRST FLOOR WASTE & VENT PLAN FOR CONTINUATION.
- P112 4" SAN DOWN FROM WATER CLOSET ON FIRST FLOOR. REFER TO SHEET PP-102, FIRST FLOOR WASTE & VENT PLAN FOR CONTINUATION.
- P113 2" SAN DOWN FROM LAVATORY (OR WATER CHILLER) ON FIRST FLOOR. REFER TO SHEET PP-102, FIRST FLOOR WASTE & VENT PLAN FOR CONTINUATION.
- P114 2" SAN DOWN FROM SINK ON FIRST FLOOR. REFER TO SHEET PP-102, FIRST FLOOR WASTE & VENT PLAN FOR CONTINUATION.
- P115 3" SAN DOWN AND 1-1/2" VENT UP FROM MOP SINK ON FIRST FLOOR. REFER TO SHEET PP-102, FIRST FLOOR WASTE & VENT PLAN FOR CONTINUATION.
- P116 3" SAN DOWN FROM LAUNDRY TUB ON FIRST FLOOR. REFER TO SHEET PP-102, FIRST FLOOR WASTE & VENT PLAN FOR CONTINUATION.
- P117 2" SAN DOWN AND 1-1/2" VENT UP FROM SHOWER ON FIRST FLOOR. REFER TO SHEET PP-102, FIRST FLOOR WASTE & VENT PLAN FOR CONTINUATION.
- P118 2" SAN DOWN FROM WASHER BOXES ON FIRST FLOOR. REFER TO SHEET PP-102, FIRST FLOOR WASTE & VENT PLAN FOR CONTINUATION.
- P119 2" SAN DOWN AND 1-1/2" VENT UP FROM FLOOR DRAIN ON FIRST FLOOR. REFER TO SHEET PP-102, FIRST FLOOR WASTE & VENT PLAN FOR CONTINUATION.
- P120 4" SAN DOWN FROM CLEANOUT ON FIRST FLOOR. REFER TO SHEET PP-102, FIRST FLOOR WASTE & VENT PLAN FOR CONTINUATION.
- P121 2" SAN DOWN FROM FIRST FLOOR. REFER TO SHEET PP-102, FIRST FLOOR WASTE & VENT PLAN FOR CONTINUATION.
- P122 3" SAN DOWN FROM FIRST FLOOR. REFER TO SHEET PP-102, FIRST FLOOR WASTE & VENT PLAN FOR CONTINUATION.
- P123 4" SAN DOWN FROM FIRST FLOOR. REFER TO SHEET PP-102, FIRST FLOOR WASTE & VENT PLAN FOR CONTINUATION.
- P124 1-1/2" VENT UP TO FIRST FLOOR. REFER TO SHEET PP-102, FIRST FLOOR WASTE & VENT PLAN FOR CONTINUATION.
- P125 2" VENT UP TO FIRST FLOOR. REFER TO SHEET PP-102, FIRST FLOOR WASTE & VENT PLAN FOR CONTINUATION.
- P126 REFER TO BELOW FLOOR BASEMENT WASTE & VENT PLAN ON THIS SHEET FOR CONTINUATION.
- P127 2" SAN DOWN AND 1-1/2" VENT UP FROM BELOW FLOOR BASEMENT SERVING FLOOR DRAIN. REFER TO BELOW FLOOR BASEMENT WASTE & VENT PLAN ON THIS SHEET FOR CONTINUATION.
- P128 4" SAN DOWN AND 2" VENT UP FROM BELOW FLOOR BASEMENT SERVING FLOOR DRAIN. REFER TO BELOW FLOOR BASEMENT WASTE & VENT PLAN ON THIS SHEET FOR CONTINUATION.
- P129 4" SAN DOWN AND 2" VENT UP FROM BELOW FLOOR BASEMENT SERVING FLOOR SINK. REFER TO BELOW FLOOR BASEMENT WASTE & VENT PLAN ON THIS SHEET FOR CONTINUATION.
- P130 2" PD UP FROM BELOW FLOOR BASEMENT TO AN INDIRECT DISCHARGE INTO FLOOR SINK. REFER TO BELOW FLOOR BASEMENT WASTE & VENT PLAN ON THIS SHEET FOR CONTINUATION.
- P131 PROVIDE 3/4" CONDENSATE DRAIN FROM HEAT EXCHANGER TO FLOOR DRAIN WITHIN MECHANICAL ROOM. PROVIDE VENT TO EXTERIOR FOR ALL CONDENSATE PIPING EXCEEDING 15 FEET.
- P132 INSTALL SUMP PUMP CONTROL PANEL IN THIS LOCATION. PROVIDE RACEWAY BETWEEN CONTROL PANEL AND SUMP PUMP BASIN TO ROUTE PUMP CABLING. COORDINATE INSTALL WITH OTHER TRADES.

1	BID DOCUMENTS	06/03/25
ISSUE #	DESCRIPTION	DATE

CONSULTANTS

STRUCTURAL:
ALBERTSON ENGINEERING, INC.
3202 W. MAIN ST., #C
RAPID CITY, SD 57702
605-343-9606
STEPHEN KILBER

Albertson Engineering Inc.

MEP:
WEST PLAINS ENGINEERING, INC.
1750 RAND ROAD
RAPID CITY, SD 57702
605-348-7455
MIKE SIGMAN (ELEC)
MICHAEL HEINRICH (MECH)

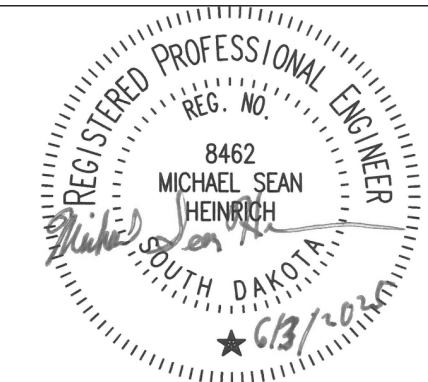
WPE WEST PLAINS ENGINEERING, INC.

DESIGNER OF RECORD

A/E:
Stone Group Architects
600 E. 7th Street
Sioux Falls, SD 57103
phone: 605.271.1144
stonegrouparchitects.com



STAMP



Office of
Construction
and Facilities
Management



U.S. Department
of Veterans Affairs

Drawing Title
BELOW FLOOR BASEMENT & BASEMENT
WASTE & VENT PLANS

Approved
DOUG SPRINKLE

Phase
100% CONSTRUCTION
DOCUMENTS

FULLY SPRINKLERED

Project Title
DOM RENOVATION FOR
SEMIPRIVATE ROOMS

Location
HOT SPRINGS, SOUTH DAKOTA

Issue Date
06/03/2025

Checked
MSH

Drawn
TAJ

Project Number
VA #568A4-21-208
SGA #BR21039

Building Number
8

Drawing Number
PP-101

THREE INCHES - ONE FOOT (3" = 1'-0")
ONE AND ONE HALF INCHES - ONE FOOT (1 1/2" = 1'-0")
ONE INCH - ONE FOOT (1" = 1'-0")
THREE QUARTERS INCH - ONE FOOT (3/4" = 1'-0")
ONE HALF INCH - ONE FOOT (1/2" = 1'-0")
THREE EIGHTHS INCH - ONE FOOT (3/8" = 1'-0")
ONE QUARTER INCH - ONE FOOT (1/4" = 1'-0")
ONE EIGHTH INCH - ONE FOOT (1/8" = 1'-0")
C:\Real\Local\Draw\2022\BPR21035 Hot Springs Corralley Renovation Building 3 MEP22.dwg
6/2/2025 9:48:37 AM
JL

1 FIRST FLOOR WASTE & VENT PLAN
1/8" = 1'-0"

2 SECOND FLOOR WASTE & VENT PLAN
1/8" = 1'-0"

MISCELLANEOUS WASTE AND VENT NOTES

- A COORDINATE LOCATIONS OF PIPING WITH OTHER TRADES. DO NOT ROUTE PIPING ABOVE ELECTRICAL PANELS. MAINTAIN ALL CODE REQUIRED CLEARANCES.
- B PIPING SHOWN FOR CLARITY. ROUTE ALL PIPING ABOVE CEILING. IN CHASES, AND IN WALLS AS REQUIRED.
- C COORDINATE LOCATION OF ALL UNDERGROUND PIPING WITH FOOTINGS AND FOUNDATIONS. SLEEVE AS REQUIRED.
- D ALL PIPING WORK SHALL BE COORDINATED WITH ALL OTHER TRADES. OFFSETS IN PIPING AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE PROJECT.
- E COORDINATE LOCATION OF ALL FLOOR DRAINS WITH LOCATION OF MECHANICAL EQUIPMENT. COORDINATE LOCATION WITH GENERAL CONTRACTOR.
- F PROVIDE CLEANOUTS AS REQUIRED BY CODE AND AUTHORITY HAVING JURISDICTION. PROVIDE CLEANOUTS IN ALL VERTICAL PIPING THAT PASSES THROUGH THE FLOOR INTO THE CRAWL SPACE.
- G COORDINATE LOCATION OF ALL CLEANOUTS FOR ACCESSIBILITY. ALL CLEANOUTS SHALL BE ACCESSIBLE FROM THE MAIN FLOOR. COORDINATE HEIGHT OF WALL CLEANOUTS TO BE ACCESSIBLE AND TO NOT CONFLICT WITH ARCHITECTURAL ELEMENTS (GRAB BARS, COVE BASE, ETC.).

MECHANICAL SPECIFIC NOTES

- P150 REFER TO SHEET PP-101, BASEMENT WASTE & VENT PLAN FOR CONTINUATION.
- P151 4" SAN DOWN AND 2" VENT UP FROM WATER CLOSET ON SECOND FLOOR. REFER TO SECOND FLOOR WASTE & VENT PLAN ON THIS SHEET FOR CONTINUATION.
- P152 4" SAN DOWN FROM WATER CLOSET ON SECOND FLOOR. REFER TO SECOND FLOOR WASTE & VENT PLAN ON THIS SHEET FOR CONTINUATION.
- P153 2" SAN DOWN FROM LAVATORY (OR WATER CHILLER) ON SECOND FLOOR. REFER TO SECOND FLOOR WASTE & VENT PLAN ON THIS SHEET FOR CONTINUATION.
- P154 2" SAN DOWN FROM SINK ON SECOND FLOOR. REFER TO SECOND FLOOR WASTE & VENT PLAN ON THIS SHEET FOR CONTINUATION.
- P155 3" SAN DOWN AND 1-1/2" VENT UP FROM MOP SINK ON SECOND FLOOR. REFER TO SECOND FLOOR WASTE & VENT PLAN ON THIS SHEET FOR CONTINUATION.
- P156 3" SAN DOWN FROM LAUNDRY TUB ON SECOND FLOOR. REFER TO SECOND FLOOR WASTE & VENT PLAN ON THIS SHEET FOR CONTINUATION.
- P157 2" SAN DOWN AND 1-1/2" VENT UP FROM SHOWER ON SECOND FLOOR. REFER TO SECOND FLOOR WASTE & VENT PLAN ON THIS SHEET FOR CONTINUATION.
- P158 2" SAN DOWN FROM WASHER BOXES ON SECOND FLOOR. REFER TO SECOND FLOOR WASTE & VENT PLAN ON THIS SHEET FOR CONTINUATION.
- P159 2" SAN DOWN AND 1-1/2" VENT UP FROM FLOOR DRAIN ON SECOND FLOOR. REFER TO SECOND FLOOR WASTE & VENT PLAN ON THIS SHEET FOR CONTINUATION. 2" SAN DOWN TO BASEMENT. REFER TO SHEET PP-101, BASEMENT WASTE & VENT PLAN FOR CONTINUATION.
- P160 2" SAN DOWN FROM SECOND FLOOR. REFER TO SECOND FLOOR WASTE & VENT PLAN ON THIS SHEET FOR CONTINUATION. ROUTE 2" SAN DOWN THROUGH CASEWORK. DO NOT INSTALL SAN PIPING IN EXTERIOR WALL.
- P161 2" SAN DOWN TO BASEMENT. REFER TO SHEET PP-101, BASEMENT WASTE & VENT PLAN FOR CONTINUATION.
- P162 3" SAN DOWN TO BASEMENT. REFER TO SHEET PP-101, BASEMENT WASTE & VENT PLAN FOR CONTINUATION.
- P163 4" SAN DOWN TO BASEMENT. REFER TO SHEET PP-101, BASEMENT WASTE & VENT PLAN FOR CONTINUATION.
- P164 1-1/2" VENT UP FROM BASEMENT. REFER TO SHEET PP-101, BASEMENT WASTE & VENT PLAN FOR CONTINUATION. 3" VENT UP TO SECOND FLOOR. REFER TO SECOND FLOOR WASTE & VENT PLAN ON THIS SHEET FOR CONTINUATION.
- P165 2" VENT UP FROM BASEMENT. REFER TO SHEET PP-101, BASEMENT WASTE & VENT PLAN FOR CONTINUATION. 3" VENT UP TO SECOND FLOOR. REFER TO SECOND FLOOR WASTE & VENT PLAN ON THIS SHEET FOR CONTINUATION.
- P166 2" VENT UP FROM BASEMENT. REFER TO SHEET PP-101, BASEMENT WASTE & VENT PLAN FOR CONTINUATION.
- P167 2" VENT UP TO SECOND FLOOR. REFER TO SECOND FLOOR WASTE & VENT PLAN ON THIS SHEET FOR CONTINUATION.
- P168 2" SAN DOWN AND 1-1/2" VENT UP FROM BASEMENT SERVING FLOOR DRAIN. REFER TO SHEET PP-101, BASEMENT WASTE & VENT PLAN FOR CONTINUATION.
- P169 3" VENT UP TO SECOND FLOOR. REFER TO SECOND FLOOR WASTE & VENT PLAN ON THIS SHEET FOR CONTINUATION.
- P170 PROVIDE 3/4" CONDENSATE DRAIN FROM FAN COIL TO BRANCH WYE ABOVE P-TRAP OF LAVATORY WITHIN RESIDENT TOILET RESTROOM. PROVIDE VENT TO EXTERIOR FOR ALL CONDENSATE PIPING EXCEEDING 15 FEET.
- P171 PROVIDE 3/4" CONDENSATE DRAIN FROM FAN COIL TO BRANCH WYE ABOVE P-TRAP OF SINK IN STAFF LOUNGE 114 IN BASEMENT. PROVIDE VENT TO EXTERIOR FOR ALL CONDENSATE PIPING EXCEEDING 15 FEET.
- P172 PROVIDE 3/4" CONDENSATE DRAIN FROM FAN COIL TO FLOOR DRAIN IN MECHANICAL B10 IN BASEMENT. PROVIDE VENT TO EXTERIOR FOR ALL CONDENSATE PIPING EXCEEDING 15 FEET.
- P173 PROVIDE 3/4" CONDENSATE DRAIN FROM FAN COIL TO BRANCH WYE ABOVE P-TRAP OF LAVATORY IN TOILET 116A ON FIRST FLOOR. PROVIDE VENT TO EXTERIOR FOR ALL CONDENSATE PIPING EXCEEDING 15 FEET.
- P174 PROVIDE 3/4" CONDENSATE DRAIN FROM FAN COIL TO BRANCH WYE ABOVE P-TRAP OF LAVATORY IN TOILET 114A ON FIRST FLOOR. PROVIDE VENT TO EXTERIOR FOR ALL CONDENSATE PIPING EXCEEDING 15 FEET.
- P175 PROVIDE 3/4" CONDENSATE DRAIN FROM FAN COIL TO BRANCH WYE ABOVE P-TRAP OF LAVATORY IN TOILET 111A ON FIRST FLOOR. PROVIDE VENT TO EXTERIOR FOR ALL CONDENSATE PIPING EXCEEDING 15 FEET.
- P176 PROVIDE 3/4" CONDENSATE DRAIN FROM FAN COIL TO BRANCH WYE ABOVE P-TRAP OF LAVATORY IN TOILET 110A ON FIRST FLOOR. PROVIDE VENT TO EXTERIOR FOR ALL CONDENSATE PIPING EXCEEDING 15 FEET.
- P177 PROVIDE 3/4" CONDENSATE DRAIN FROM FAN COIL TO BRANCH WYE ABOVE P-TRAP OF SINK IN MULTIPURPOSE KITCHENETTE 104 ON FIRST FLOOR. PROVIDE VENT TO EXTERIOR FOR ALL CONDENSATE PIPING EXCEEDING 15 FEET.
- P178 REFER TO FIRST FLOOR WASTE & VENT PLAN ON THIS SHEET FOR CONTINUATION.
- P179 3" VENT UP FROM FIRST FLOOR. REFER TO FIRST FLOOR WASTE & VENT PLAN ON THIS SHEET FOR CONTINUATION. 3" VENT UP TO ATTIC. REFER TO SHEET PP-103, ATTIC WASTE & VENT PLAN FOR CONTINUATION.
- P180 2" SAN DOWN TO FIRST FLOOR. REFER TO FIRST FLOOR WASTE & VENT PLAN ON THIS SHEET FOR CONTINUATION. ROUTE 2" SAN DOWN THROUGH CASEWORK. DO NOT INSTALL SAN PIPING IN EXTERIOR WALL.
- P181 2" SAN DOWN AND 1-1/2" VENT UP FROM FIRST FLOOR SERVING FLOOR DRAIN. FIRST FLOOR WASTE & VENT PLAN ON THIS SHEET FOR CONTINUATION.

CONSULTANTS

STRUCTURAL:
ALBERTSON ENGINEERING, INC.
3202 W. MAIN ST., #C
RAPID CITY, SD 57702
605-343-9606
STEPHEN KILBER

Albertson Engineering Inc.

MEP:
WEST PLAINS ENGINEERING, INC.
1750 RAND ROAD
RAPID CITY, SD 57702
605-348-7455
MIKE SIGMAN (ELEC)
MICHAEL HEINRICH (MECH)

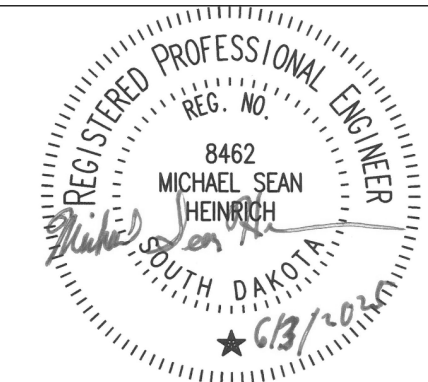
WPE WEST PLAINS ENGINEERING, INC.

DESIGNER OF RECORD

A/E:
Stone Group Architects
300 E. 7th Street
Sioux Falls, SD 57103
phone: 605.271.1144
stonegrouparchitects.com



STAMP



Office of
Construction
and Facilities
Management



U.S. Department
of Veterans Affairs

Drawing Title

FIRST & SECOND FLOOR WASTE & VENT
PLANS

Approved

DOUG SPRINKLE

Phase

100% CONSTRUCTION
DOCUMENTS

FULLY SPRINKLERED

Project Title

DOM RENOVATION FOR
SEMIPRIVATE ROOMS

Location

HOT SPRINGS, SOUTH DAKOTA

Issue Date
06/03/2025

Checked
MSH

Drawn
TAJ

Project Number

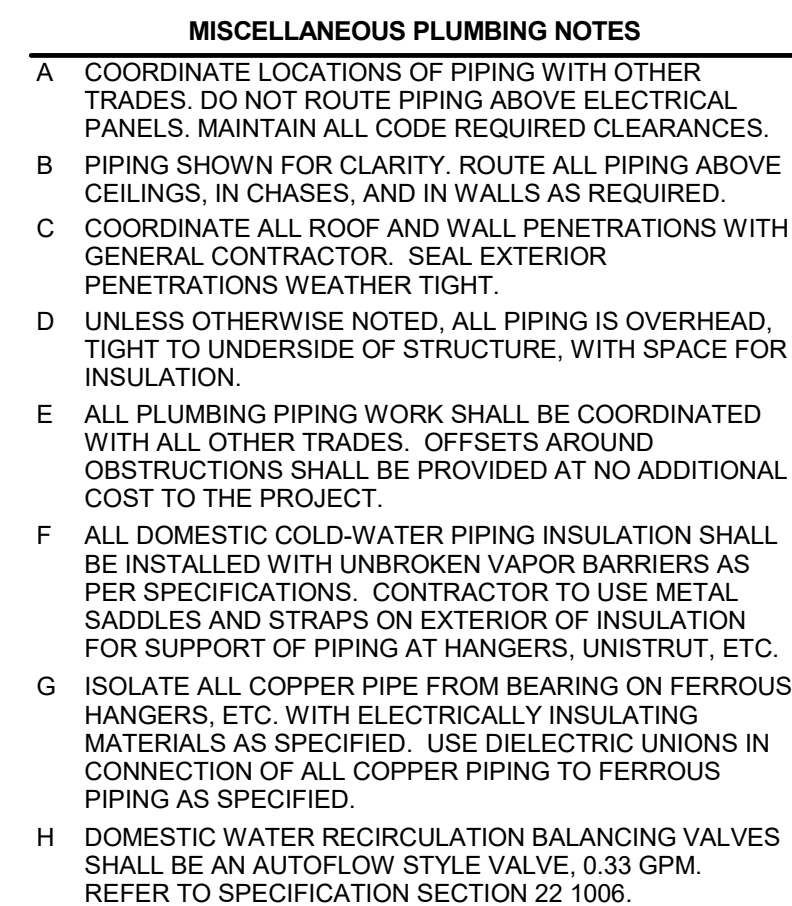
VA #568A4-21-208
SGA #BR21039

Building Number

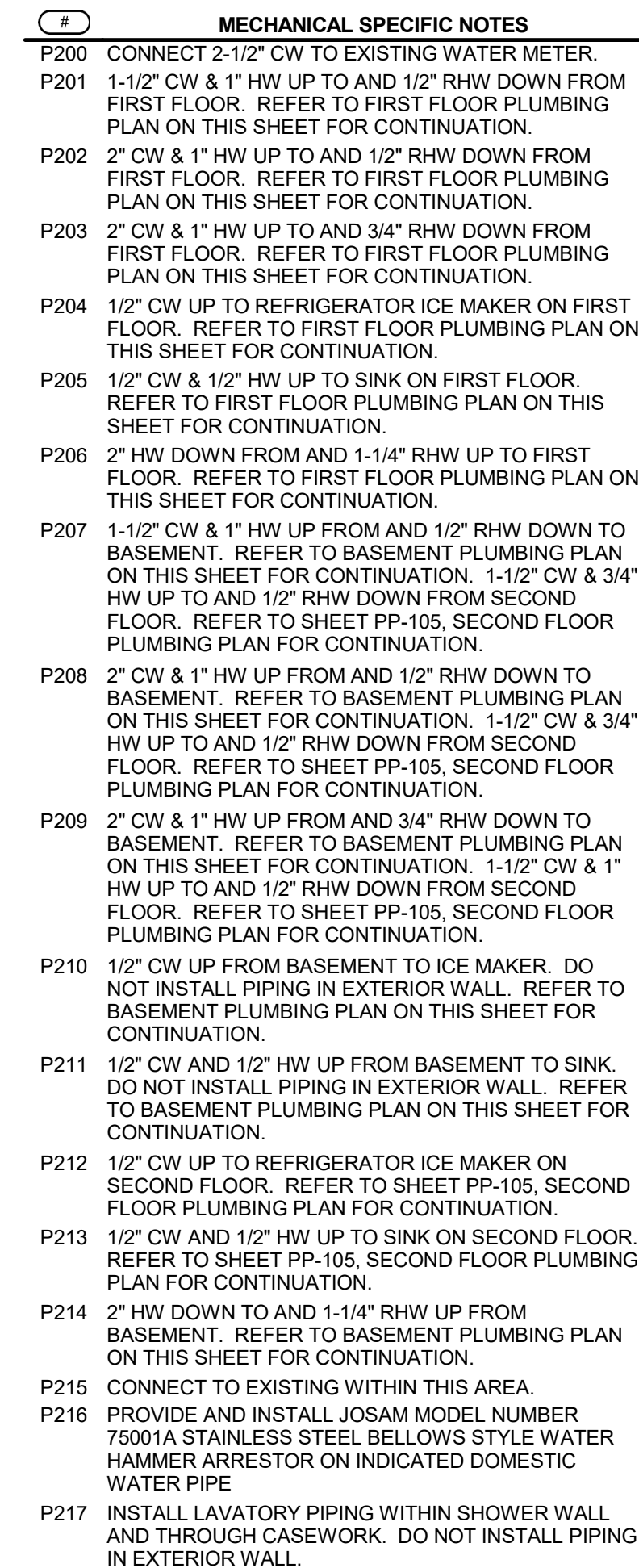
8

Drawing Number

PP-102



 BASEMENT PLUMBING PLAN
1/8" = 1'-0"



 **2** **FIRST FLOOR PLUMBING PLAN**
1/8" = 1'-0"

1	BID DOCUMENTS	06/03/25
ISSUE #	DESCRIPTION	DATE

STRUCTURAL: ALBERTSON ENGINEERING, INC. 3202 W. MAIN ST., #C RAPID CITY, SD 57702 605-343-9606		MEP: WEST PL 1750 RAN RAPID CIT 605-348-74 MIKE SIGN
STEPHEN KILBER	Albertson Engineering Inc.	

MEP:
WEST PLAINS ENGINEERING, INC.
1750 RAND ROAD
RAPID CITY, SD 57702
605-348-7455

WPE WEST PLAINS
ENGINEERING, INC.

MIKE SIGMAN (ELEC)
MICHAEL HEINRICH (MECH)

A/E:
Stone Group Architects
600 E. 7th Street
Sioux Falls, SD 57103
phone: 605.271.1144
stonegrouparchitects.com



VA | U.S. Department
of Veterans Affairs

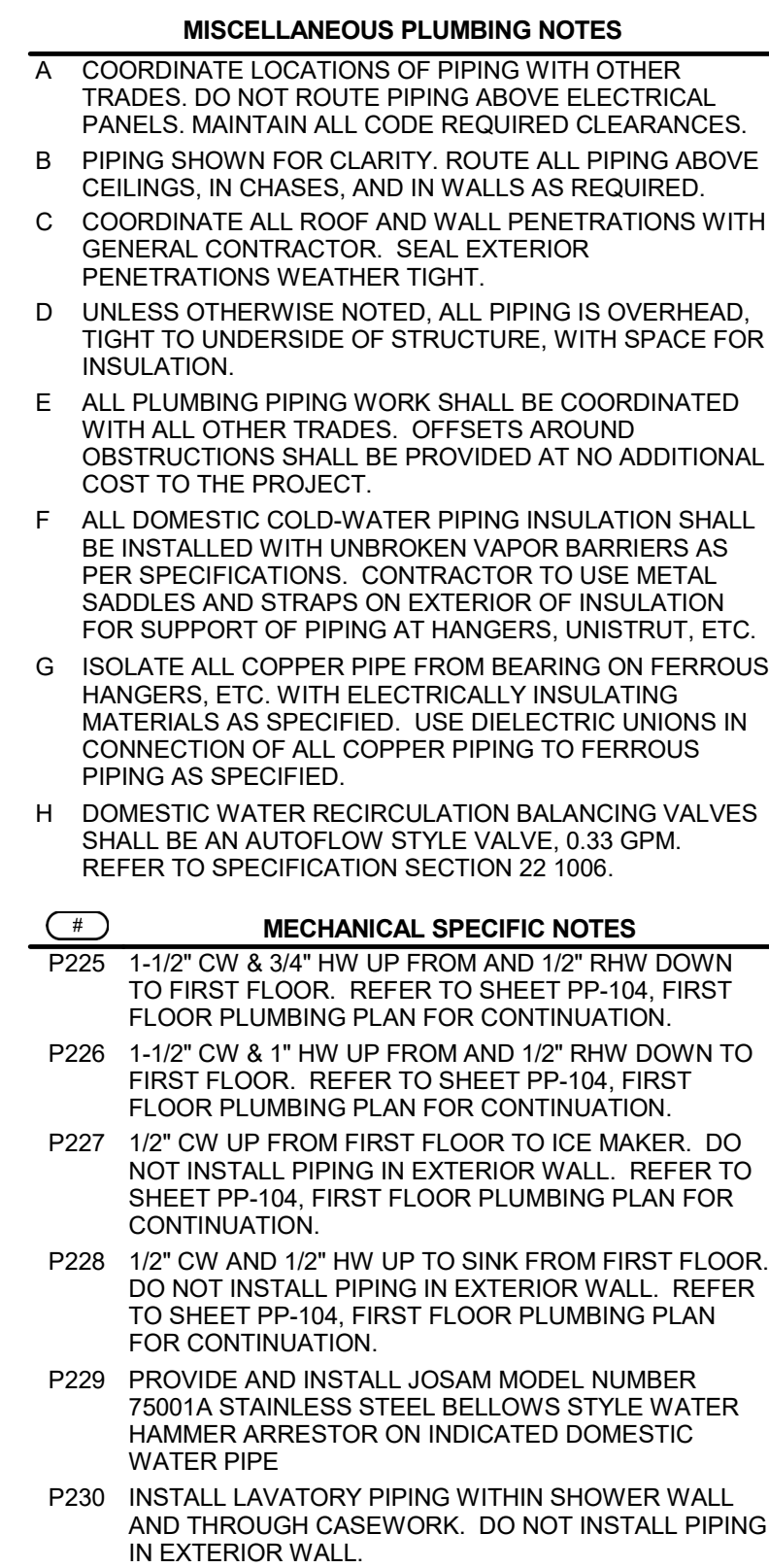
Approved
DOUG SPRINKLE

FULLY SPRINKLERED

Location	HOT SPRINGS, SOUTH DAKOTA
----------	---------------------------

Drawing Number

PP-104



 **1 SECOND FLOOR PLUMBING PLAN**
1/8" = 1'-0"



Drawing Number

PP-105

MECHANICAL SYMBOLS

—CW— COLD WATER PIPE	—HW— HOT WATER PIPE	—RHW— CIRCULATING HOT WATER PIPE
—COW— UNDERGROUND COLD WATER PIPE	—HWW— UNDERGROUND HOT WATER PIPE	—RHHW— UNDERGROUND CIRCULATING HOT WATER PIPE
—SAN— UNDERFLOOR WASTE PIPE	—SAN— ABOVE FLOOR WASTE PIPE	—V— VENT PIPE
—ST— UNDERFLOOR STORM PIPE	—ST— ABOVE FLOOR STORM PIPE	
—OST— UNDERFLOOR OVERFLOW STORM PIPE	—OST— ABOVE FLOOR OVERFLOW STORM PIPE	
—PD— PUMP DISCHARGE	—PD— PUMP DISCHARGE	
—AW— UNDERFLOOR ACID WASTE PIPE	—AW— ABOVE FLOOR ACID RESISTANT WASTE PIPE	—AV— ACID RESISTANT VENT PIPE
—S— COLD SOFT WATER PIPE	—SHW— SOFT HOT WATER PIPE	—SRHW— PIPE
—CA— COMPRESSED AIR PIPE	—LS— LAWN SPRINKLER PIPE	—CA— COMPRESSED AIR OUTLET
—HPS— HIGH PRESSURE STEAM	—MPS— MEDIUM PRESSURE STEAM	—LPS— LOW PRESSURE STEAM
—HPR— HIGH PRESSURE RETURN	—MPR— MEDIUM PRESSURE RETURN	—LPR— LOW PRESSURE RETURN
—PC— PUMPED CONDENSATE PIPE	—HDW— HOTDOG WATER	
—G— NATURAL GAS	—LP— LIQUEFIED PETROLEUM GAS	
—HWS— HOT WATER HEATING SUPPLY	—HWR— HOT WATER HEATING RETURN	
—CWS— CHILLED WATER SUPPLY PIPE	—CWR— CHILLED WATER RETURN PIPE	
—CS— CONDENSER WATER SUPPLY PIPE	—CER— CONDENSER WATER RETURN PIPE	
—HPWS— HEAT PUMP WATER SUPPLY	—HPWR— HEAT PUMP WATER RETURN	
—GLWS— GROUND LOOP WATER SUPPLY	—GLWR— GROUND LOOP WATER RETURN	
—FOS— FUEL OIL SUPPLY	—FOR— FUEL OIL RETURN	
—FOV— FUEL OIL VENT	—FOG— FUEL OIL GAUGE	
—RL— REFRIGERANT LIQUID PIPE	—RS— REFRIGERANT SUCTION PIPE	—HG— HOT GAS
—O— OXYGEN PIPE	—VAC— CLINICAL AND LAB VACUUM	—GE— GAS EVACUATION PIPE
—NO— NITROGEN OXIDE PIPE	—N— NITROGEN PIPE	—A— CLINICAL AND LAB AIR PIPE
△ OXYGEN OUTLET	△ CLINICAL AND LAB VACUUM OUTLET	△ GAS EVACUATION OUTLET
△ NITROGEN OXIDE OUTLET	△ NITROGEN OUTLET	△ CLINICAL AIR OUTLET
—D— EQUIPMENT DRAIN	DS— DOWN SPOUT	—H— FIRE DEPT. HOSE VALVE
—F— FIRE SPRINKLER PIPE	SP— STAND PIPE	
—P— PENDANT TYPE SPRINKLER HEAD	—U— UPRIGHT SPRINKLER HEAD	—R— RECESSED SPRINKLER HEAD
● CONCEALED SPRINKLER HEAD	PI— POST INDICATOR VALVE	
—PIPE CONNECTION	—AIR VENT	—FLOW ALARM
—ELBOW DOWN	—FLOW MEASURING DEVICE	—PRESSURE/TEMPERATURE TAP
—ELBOW UP	—EXPANSION JOINT, PIPE GUIDE	—PRESSURE GAUGE
—TEE DOWN	—CAPPED OUTLET	—STATIC PRESSURE SENSOR
—PIPE PITCH DOWN	—SHUT OFF VALVE	—THERMOMETER
—DIRECTION OF FLOW	—BALANCING VALVE	—STRAINER
—PIPE ANCHOR	—CONTROL VALVE	—STEAM TRAP
—REDUCER OR INCREASER	—3-WAY CONTROL VALVE	—BACK FLOW PREVENTER
—UNION	—PRESSURE REDUCING VALVE	—FLOW CONTROL VALVE
—FLEXIBLE PIPE CONNECTION	—PRESSURE RELIEF VALVE	—STRAINER VALVE
WH— WALL HYDRANT	—DOMESTIC WATER TEMPERING VALVE	—PRESSURE SENSOR DIFFERENTIAL
HS— HOSE BIB	—CHECK VALVE	—THERMOSTAT
CO— CLEAN OUT ABOVE FLOOR	—CURB STOP	—NIGHT THERMOSTAT
WCO— WALL CLEAN OUT		—HUMIDISTAT
CO— CLEAN OUT IN FLOOR	RO— ROOF DRAIN	—HUMIDISTAT
FD— FLOOR DRAIN	ORD— OVERFLOW ROOF DRAIN	—FLOW SWITCH
FS— FLOOR SINK	AD— AREA DRAIN	—DEMOLITION HATCHING
—RADIATION ELEMENT	—CONNECT TO EXIST. SERVICE	
RAD-1 5'-0" LENGTH		

PLUMBING FIXTURE SCHEDULE

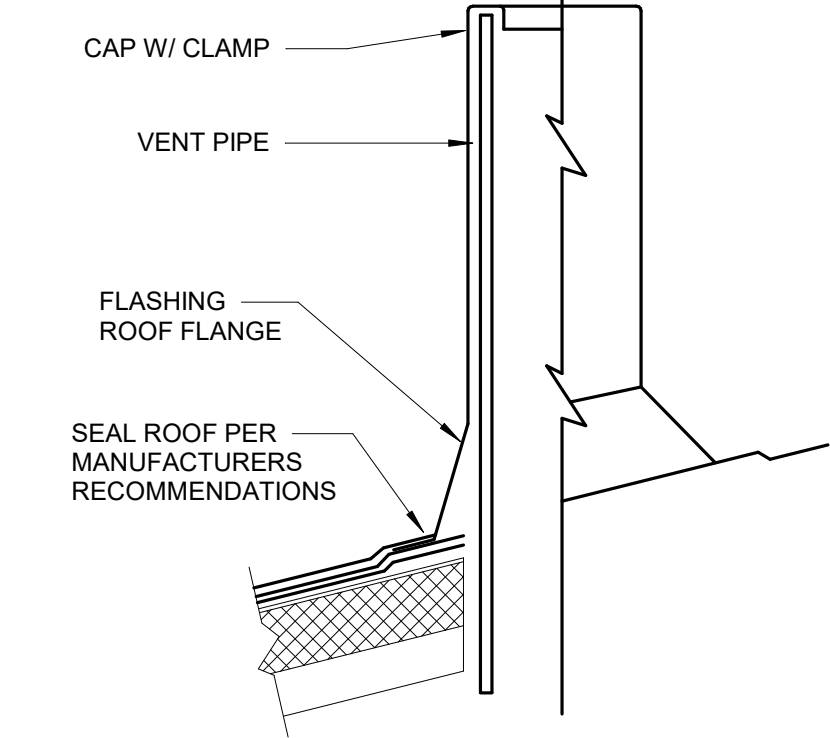
UNIT TYPE	UNIT NUMBER	MANUFACTURER	MODEL	FIXTURE TYPE	WASTE	VENT	SUPPLY	TRIM/REMARKS
							CW	HW
P	1A	AMERICAN STANDARD	APWALL 3351.101	WATER CLOSET (WALLHUNG FV HET) 1.2 GPF MOUNT AT ADA HEIGHT	4"	2"	1 1/4"	
P	1B	AMERICAN STANDARD	MADERA 3461.001	WATER CLOSET (FLOORMOUNT FV HET) 1.28 GPF ADA	4"	2"	1 1/4"	
P	1C	AMERICAN STANDARD	MADERA 3451.001	WATER CLOSET (FLOORMOUNT FV HET) 1.28 GPF ADA	4"	2"	1 1/4"	
P	2A	AMERICAN STANDARD	TRIMBROOK 6561.017	URINAL (FV) 1.0 GPF	2"	1 1/2"	3/4"	
P	3A	TRIM ONLY	TRIM ONLY	LAVATORY (COUNTER TYPE)	2"	1 1/2"	1/2"	1/2"
P	3B	WHITEHALL MANUFACTURING	WH3740BAR-WH3377	LAVATORY (WALLHUNG) BARIATRIC ADA	2"	1 1/2"	1/2"	1/2"
P	3C	AMERICAN STANDARD	LUCERNE 0355.012	LAVATORY (WALLHUNG) ADA MEDICAL	2"	1 1/2"	1/2"	1/2"
P	4A	ELKAY	LZSTL8WSLK	WATER CHILLER WITH BOTTLE FILLER (SPUIT LEVEL) ADA	2"	1 1/2"	1/2"	
P	5A	FIAT	MSB-2424	SERVICE SINK 24"X24"	3"	1 1/2"	3/4"	3/4"
P	5B	MUSTEE	19F	SINGLE COMPARTMENT LAUNDRY SINK 20"X24"X14-3/8"	2"	1 1/2"	3/4"	3/4"
P	7A	TRIM ONLY		SHOWER TRIM ONLY	2"	1 1/2"	1/2"	1/2"
P	8A	ELKAY	LUSTERTONE LRAD25605	DOUBLE COMPARTMENT SINK 33"X22"X6-1/2"	2"	1 1/2"	1/2"	1/2"
P	10A	GUY-GRAY	B-200	WASHER SUPPLY	2"	1 1/2"	1/2"	1/2"
P	10B	GUY-GRAY	BIM875	ICE MAKER BOX			1/2"	

SUMP PUMP SCHEDULE

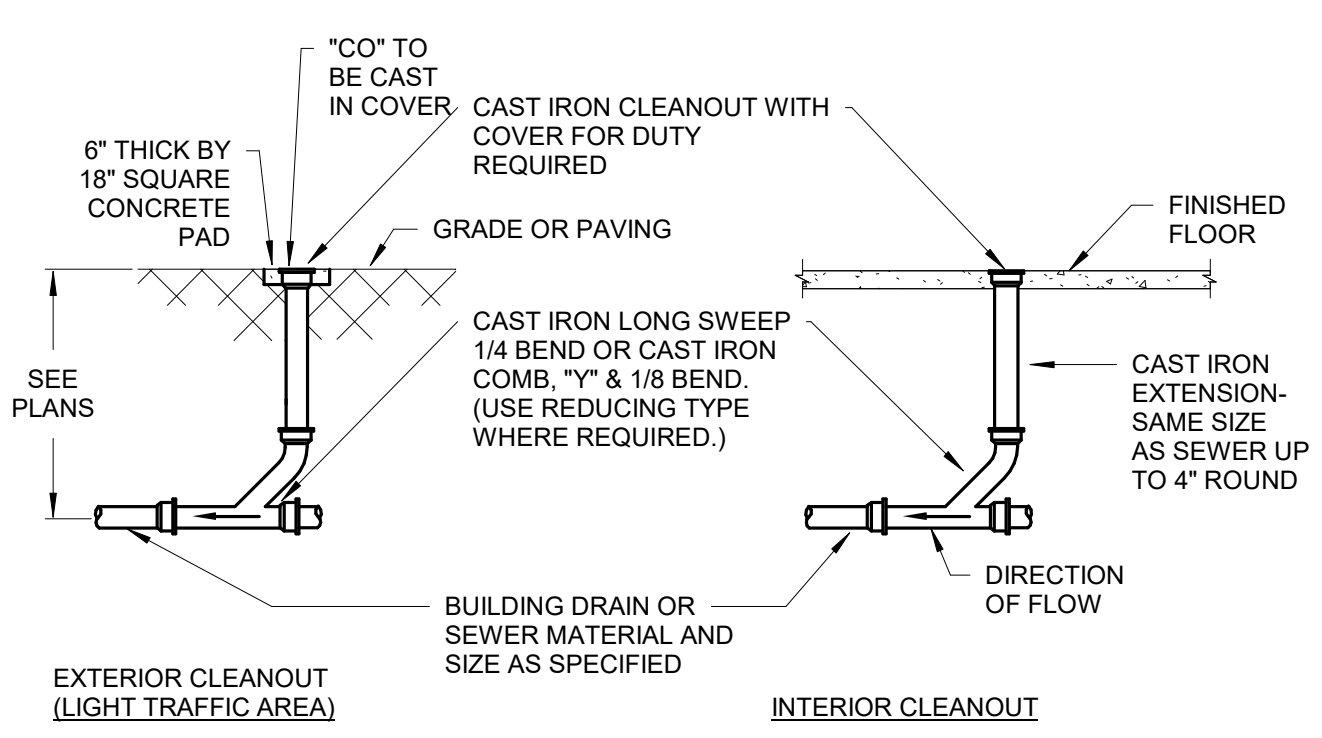
UNIT TYPE	UNIT NUMBER	MANUFACTURER	MODEL	LOCATION	SERVES	GPM	HEAD	HP	VOLTAGE	RPM	PHASES	COMMENTS
SP	2	STANCOR OIL-MINDER	SE-40	ELEVATOR	PD	50	7.5 RH20	0.4	120	3600	1	1,2,3,4

COMMENTS:

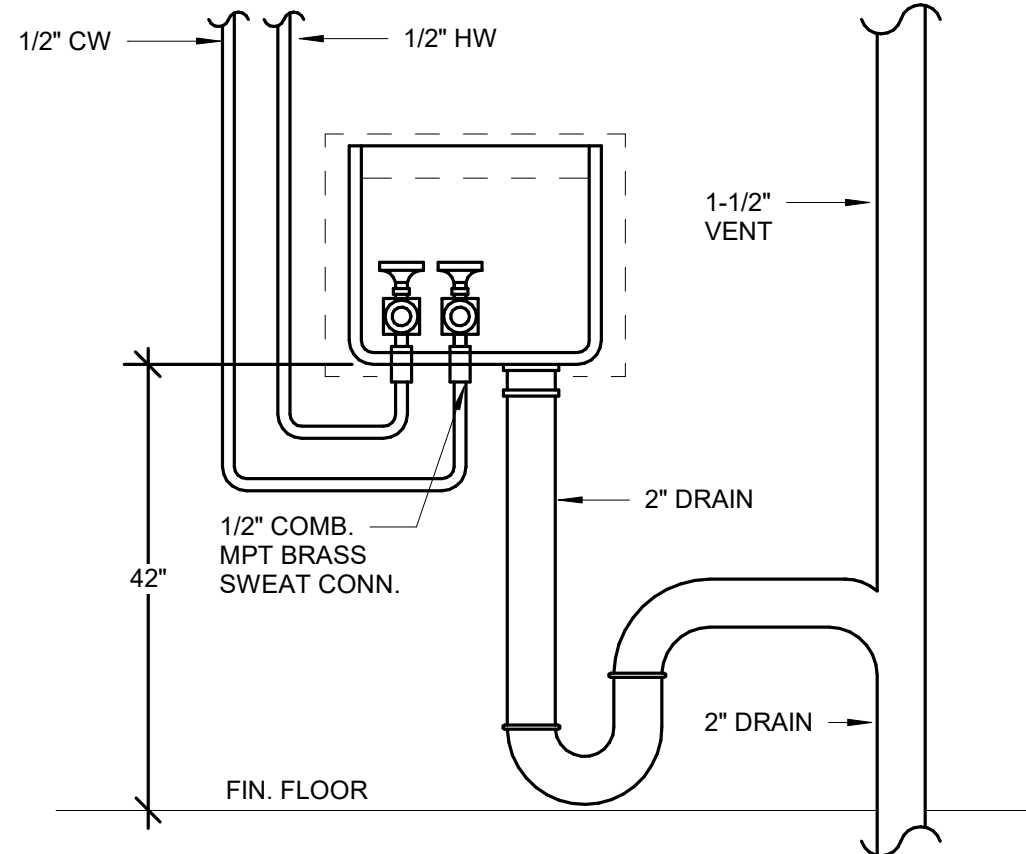
1. INSTALL CHECK VALVE ON PUMP DISCHARGE.
2. UNIT SHALL BE SUBMERSIBLE AND SIMPLEX.
3. PROVIDE WITH NEMA 4X OIL-MINDER JUNIOR CONTROL PANEL, W/ FLOAT SWITCH, PROBE, HIGH LEVEL FLOAT AND ALARM HORN.
4. PROVIDE WITH ISOLATED CONTACT FOR HIGH WATER ALARM TO BAS.



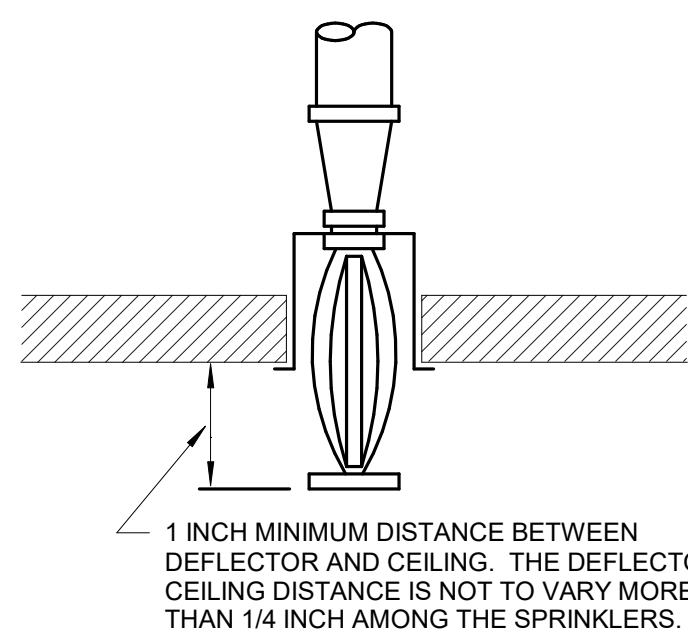
1 PLUMBING VENT DETAIL
NO SCALE



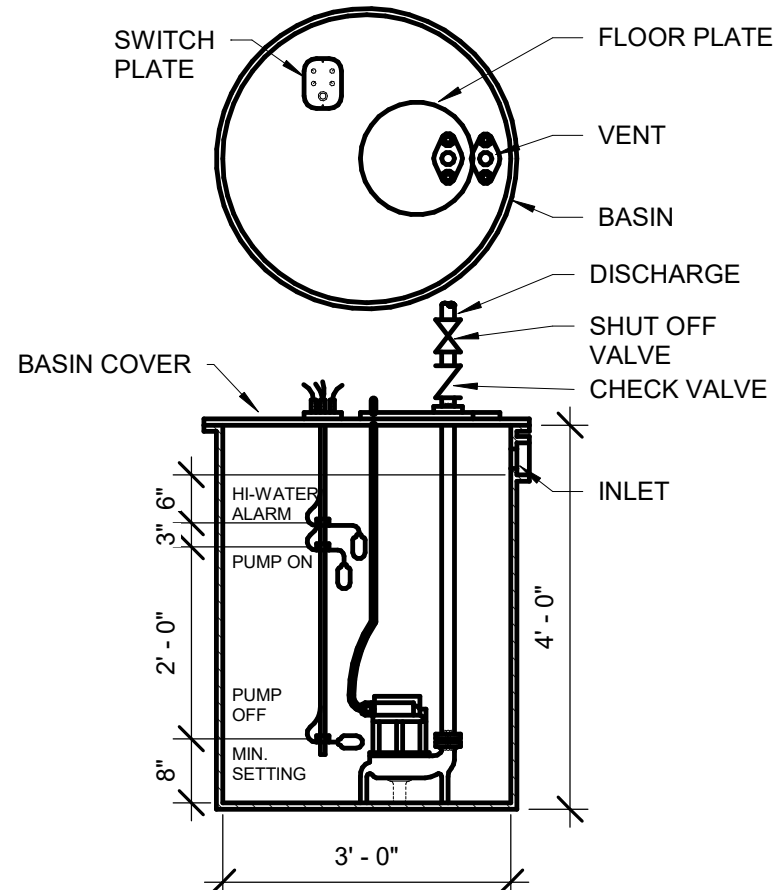
2 CLEANOUTS DETAIL
NO SCALE



3 LAUNDRY CONNECTION DETAIL
NO SCALE



4 RECESSED SPRINKLER DETAIL
NO SCALE



5 SIMPLEX EJECTOR DETAIL
NO SCALE

CONSULTANTS

STRUCTURAL:
ALBERTSON ENGINEERING, INC.
3202 W. MAIN ST., #C
RAPID CITY, SD 57702
605-343-9606
STEPHEN KILBER

Albertson Engineering Inc.

MEP:
WEST PLAINS ENGINEERING, INC.
1750 RAND ROAD
RAPID CITY, SD 57702
605-348-7455
MIKE SIGMAN (ELEC)
MICHAEL HEINRICH (MECH)

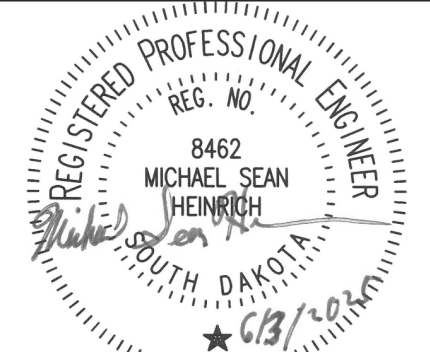
WPE WEST PLAINS ENGINEERING, INC.

DESIGNER OF RECORD

A/E:
Stone Group Architects
600 E. 7th Street
Sioux Falls, SD 57103
phone: 605.271.1144
stonegrouparchitects.com

STONE GROUP ARCHITECTS

STAMP



Office of
Construction
and Facilities
Management

VA U.S. Department
of Veterans Affairs

Drawing Title
DETAILS & SCHEDULES

Approved
DOUG SPRINKLE

Phase
100% CONSTRUCTION
DOCUMENTS

FULLY SPRINKLERED

Project Title
DOM RENOVATION FOR
SEMIPRIVATE ROOMS

Location
HOT SPRINGS, SOUTH DAKOTA

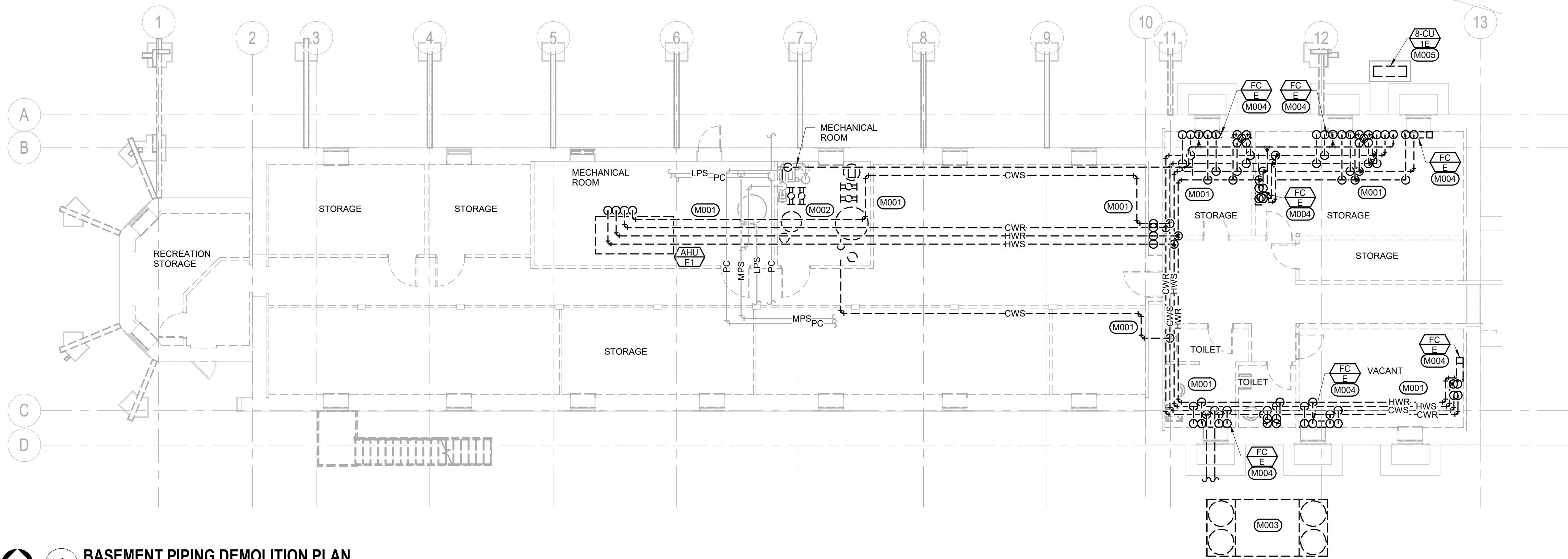
Issue Date
06/03/2025

Checked
MSH

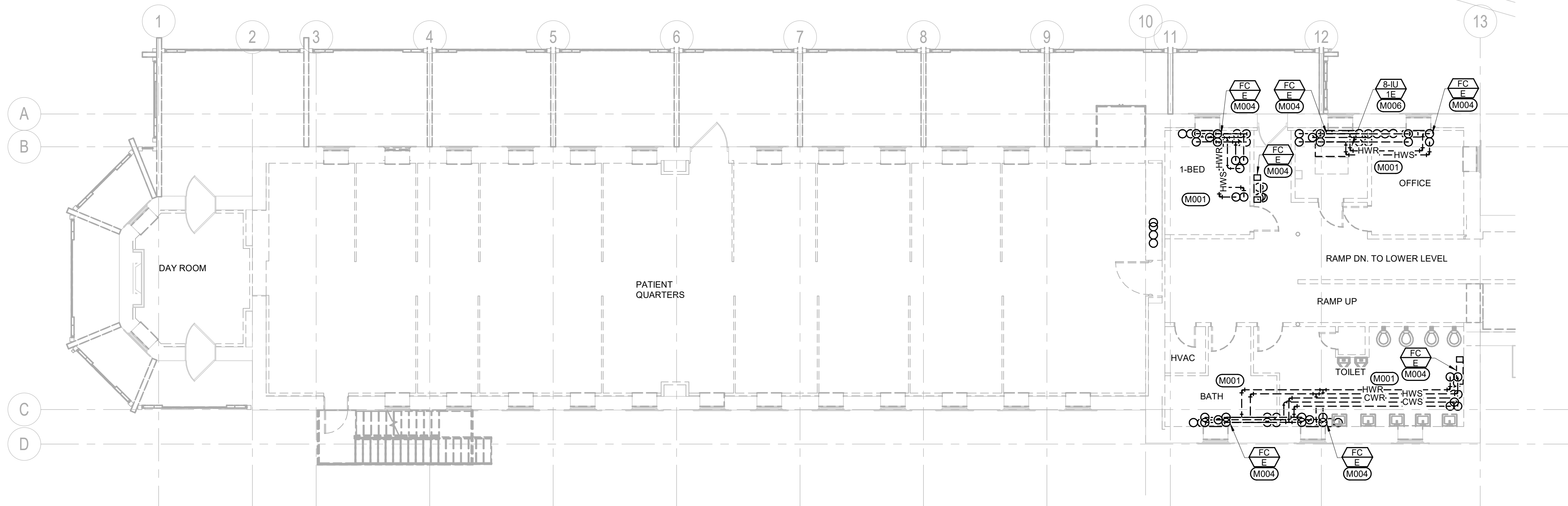
Drawn
TAJ

Project Number
VA #568A4-21-208
SGA #BR21039
Building Number
8

Drawing Number
PJ-101



1 BASEMENT PIPING DEMOLITION PLAN
1/8" = 1'-0"



2 FIRST FLOOR PIPING DEMOLITION PLAN
1/8" = 1'-0"

- MISCELLANEOUS DEMOLITION NOTES**
- A. COORDINATE PHASING AND REMOVAL OF EXISTING PIPING, DUCTWORK AND EQUIPMENT WITH OWNER.
 - B. OWNER SHALL HAVE FIRST RIGHT OF SALVAGE. ALL UNWANTED ITEMS SHALL BE COMPLETELY REMOVED FROM SITE AND DISPOSED OF LEGALLY.
 - C. CONTRACTOR SHALL REMOVE ALL EQUIPMENT, DUCTWORK AND PIPING THAT IS DASHED ON PLANS.
- MECHANICAL SPECIFIC NOTES**
- M001 REMOVE EXISTING HYDRONIC PIPING AND EQUIPMENT WHERE INDICATED BY DEMOLITION LINE TYPE.
 - M002 EXISTING HEAT EXCHANGER AND CONDENSATE RETURN TANK AND PUMPS TO REMAIN.
 - M003 REMOVE EXISTING CHILLER AND ASSOCIATED PIPING IN ITS ENTIRETY.
 - M004 REMOVE EXISTING FAN COIL IN ITS ENTIRETY.
 - M005 REFER TO SHEET MD-103, BASEMENT HVAC DEMOLITION PLAN FOR REMOVAL OF EXISTING CONDENSING UNIT.
 - M006 REFER TO SHEET MD-103, BASEMENT HVAC DEMOLITION PLAN FOR REMOVAL OF REMOVE EXISTING COOLING UNIT AND ASSOCIATED REFRIGERANT PIPING AND CONTROLS.

1	BID DOCUMENTS	06/03/25
ISSUE #	DESCRIPTION	DATE
1	BID DOCUMENTS	06/03/25

CONSULTANTS

STRUCTURAL:
ALBERTSON ENGINEERING, INC.
3202 W. MAIN ST., #C
RAPID CITY, SD 57702
605-343-9606
STEPHEN KILBER

Albertson Engineering Inc.

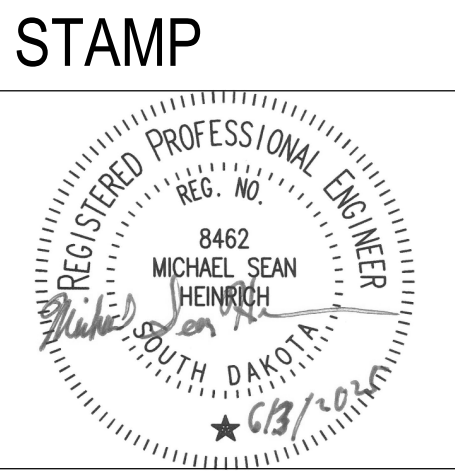
MEP:
WEST PLAINS ENGINEERING, INC.
1750 RAND ROAD
RAPID CITY, SD 57702
605-348-7455
MIKE SIGMAN (ELEC)
MICHAEL HEINRICH (MECH)

WPE WEST PLAINS ENGINEERING, INC.

DESIGNER OF RECORD

A/E:
Stone Group Architects
600 E. 7th Street
Sioux Falls, SD 57103
phone: 605.271.1144
stonegrouparchitects.com

STONE GROUP ARCHITECTS



Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
BASEMENT & FIRST FLOOR PIPING DEMOLITION PLANS

Approved
DOUG SPRINKLE

Phase
100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title
DOM RENOVATION FOR SEMIPRIVATE ROOMS

Location
HOT SPRINGS, SOUTH DAKOTA

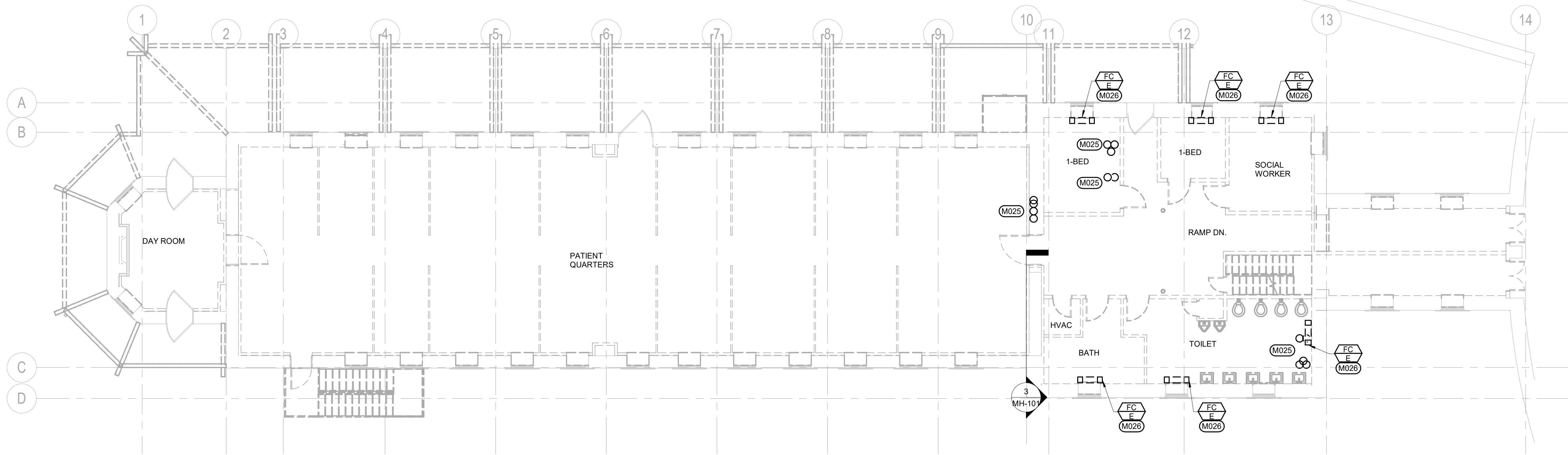
Issue Date
06/03/2025

Checked
DLD

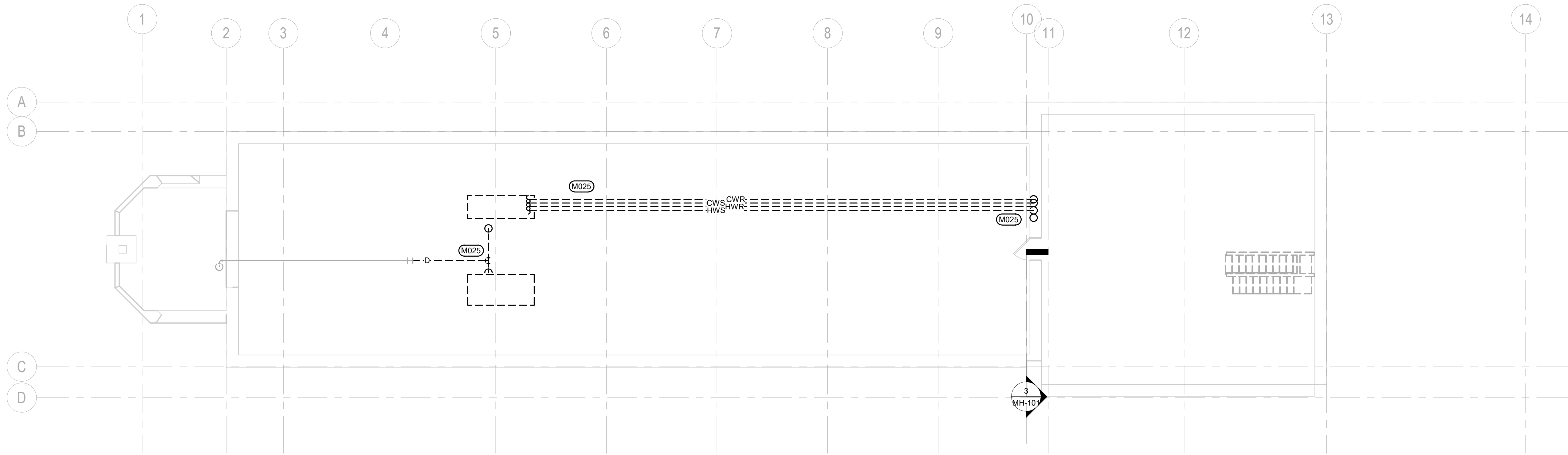
Drawn
TAJ

Project Number
VA #568A4-21-208
SGA #BR21039
Building Number
8

Drawing Number
MD-101



1 SECOND FLOOR PIPING DEMOLITION PLAN
1/8" = 1'-0"



2 ATTIC PIPING DEMOLITION PLAN
1/8" = 1'-0"

- MISCELLANEOUS DEMOLITION NOTES**
- A. COORDINATE PHASING AND REMOVAL OF EXISTING PIPING, DUCTWORK AND EQUIPMENT WITH OWNER.
 - B. OWNER SHALL HAVE FIRST RIGHT OF SALVAGE. ALL UNWANTED ITEMS SHALL BE COMPLETELY REMOVED FROM SITE AND DISPOSED OF LEGALLY.
 - C. CONTRACTOR SHALL REMOVE ALL EQUIPMENT, DUCTWORK AND PIPING THAT IS DASHED ON PLANS.
- MECHANICAL SPECIFIC NOTES**
- M025 REMOVE EXISTING HYDRONIC PIPING AND EQUIPMENT WHERE INDICATED BY DEMOLITION LINE TYPE.
 - M026 REMOVE EXISTING FAN COIL IN ITS ENTIRETY.

1	BID DOCUMENTS	06/03/25
ISSUE #	DESCRIPTION	DATE
1	BID DOCUMENTS	06/03/25

CONSULTANTS	
STRUCTURAL: ALBERTSON ENGINEERING, INC. 3202 W. MAIN ST., #C RAPID CITY, SD 57702 605-343-9606 STEPHEN KILBER	MEP: WEST PLAINS ENGINEERING, INC. 1750 RAND ROAD RAPID CITY, SD 57702 605-348-7455 MIKE SIGMAN (ELEC) MICHAEL HEINRICH (MECH)

DESIGNER OF RECORD	STAMP
A/E: Stone Group Architects 600 E. 7th Street Sioux Falls, SD 57103 phone: 605.271.1144 stonegrouparchitects.com	

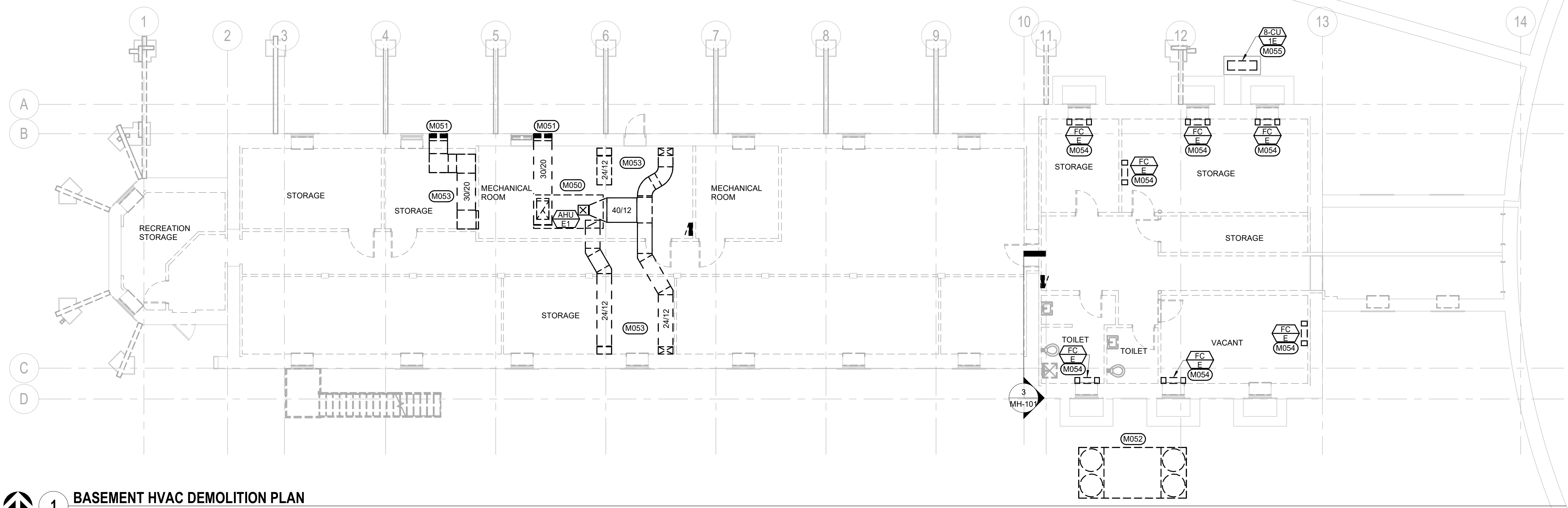
Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs
--

Drawing Title SECOND FLOOR & ATTIC PIPING DEMOLITION PLANS
Approved DOUG SPRINKLE

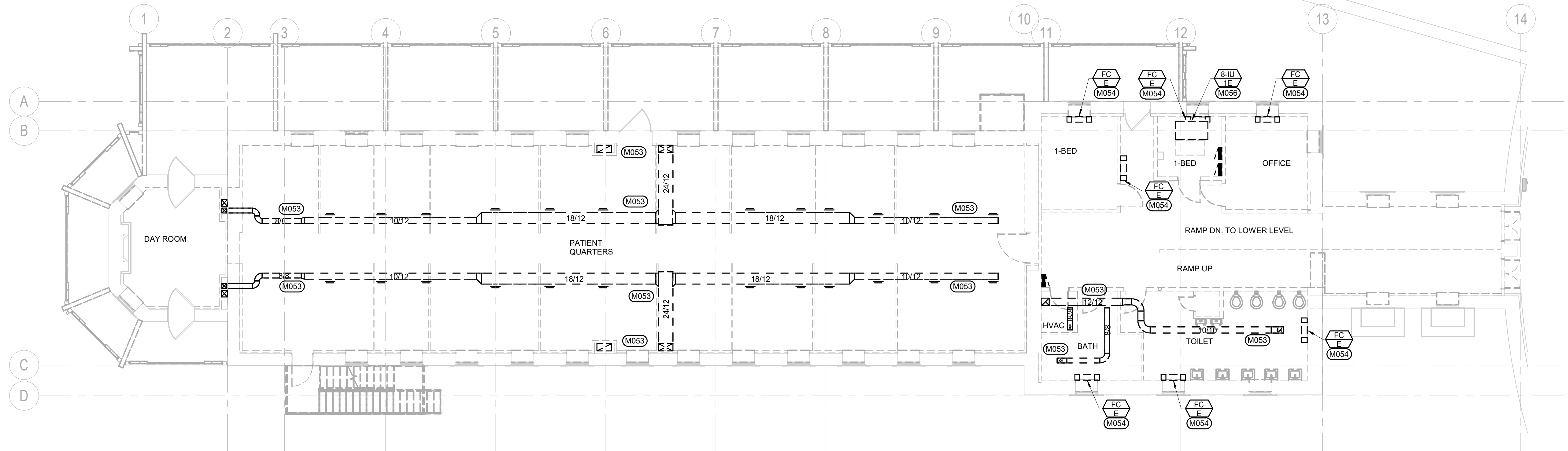
Phase 100% CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED

Project Title DOM RENOVATION FOR SEMIPRIVATE ROOMS
Location HOT SPRINGS, SOUTH DAKOTA
Issue Date 06/03/2025
Checked DLD
Drawn TAJ

Project Number VA #568A4-21-208 SGA #BR21039
Building Number 8
Drawing Number MD-102



1 BASEMENT HVAC DEMOLITION PLAN
1/8" = 1'-0"



2 FIRST FLOOR HVAC DEMOLITION PLAN
1/8" = 1'-0"

- MISCELLANEOUS DEMOLITION NOTES**
- A. COORDINATE PHASING AND REMOVAL OF EXISTING PIPING, DUCTWORK AND EQUIPMENT WITH OWNER.
 - B. OWNER SHALL HAVE FIRST RIGHT OF SALVAGE. ALL UNWANTED ITEMS SHALL BE COMPLETELY REMOVED FROM SITE AND DISPOSED OF LEGALLY.
 - C. CONTRACTOR SHALL REMOVE ALL EQUIPMENT, DUCTWORK AND PIPING THAT IS DASHED ON PLANS.

- MECHANICAL SPECIFIC NOTES**
- M050 REMOVE EXISTING AIR HANDLING UNIT AND ASSOCIATED DUCTWORK AND CONTROLS IN ITS ENTIRETY.
 - M051 REMOVE EXISTING LOUVER AND ASSOCIATED DUCTWORK.
 - M052 REMOVE EXISTING CHILLER IN ITS ENTIRETY.
 - M053 REMOVE EXISTING DUCTWORK WHERE INDICATED BY DEMOLITION LINE TYPE.
 - M054 REMOVE EXISTING FAN COIL IN ITS ENTIRETY.
 - M055 CAREFULLY REMOVE EXISTING CONDENSING UNIT AND ASSOCIATED REFRIGERANT PIPING AND TURN OVER TO OWNER. EXISTING PROTECTIVE EQUIPMENT ENCLOSURE TO REMAIN FOR REUSE. PREPARE AREA TO RECEIVE NEW WORK AS SHOWN ON SHEET MH-101, BASEMENT HVAC PLAN.
 - M056 CAREFULLY REMOVE EXISTING COOLING UNIT AND ASSOCIATED REFRIGERANT PIPING AND CONTROLS IN ITS ENTIRETY AND TURN OVER TO OWNER.

1	BID DOCUMENTS	06/03/25
ISSUE #	DESCRIPTION	DATE
1	BID DOCUMENTS	06/03/25

CONSULTANTS

STRUCTURAL:
ALBERTSON ENGINEERING, INC.
3202 W. MAIN ST., #C
RAPID CITY, SD 57702
605-343-9606
STEPHEN KILBER

Albertson Engineering Inc.

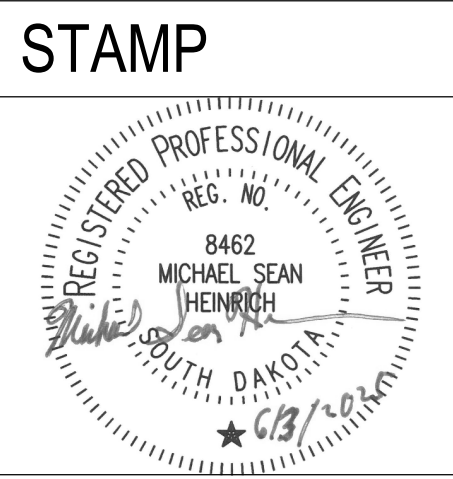
MEP:
WEST PLAINS ENGINEERING, INC.
1750 RAND ROAD
RAPID CITY, SD 57702
605-348-7455
MIKE SIGMAN (ELEC)
MICHAEL HEINRICH (MECH)

WPE WEST PLAINS ENGINEERING, INC.

DESIGNER OF RECORD

A/E:
Stone Group Architects
600 E. 7th Street
Sioux Falls, SD 57103
phone: 605.271.1144
stonegrouparchitects.com

STONE GROUP ARCHITECTS



Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
BASEMENT & FIRST FLOOR HVAC DEMOLITION PLANS

Approved
DOUG SPRINKLE

Phase
100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title
DOM RENOVATION FOR SEMIPRIVATE ROOMS

Location
HOT SPRINGS, SOUTH DAKOTA

Issue Date
06/03/2025

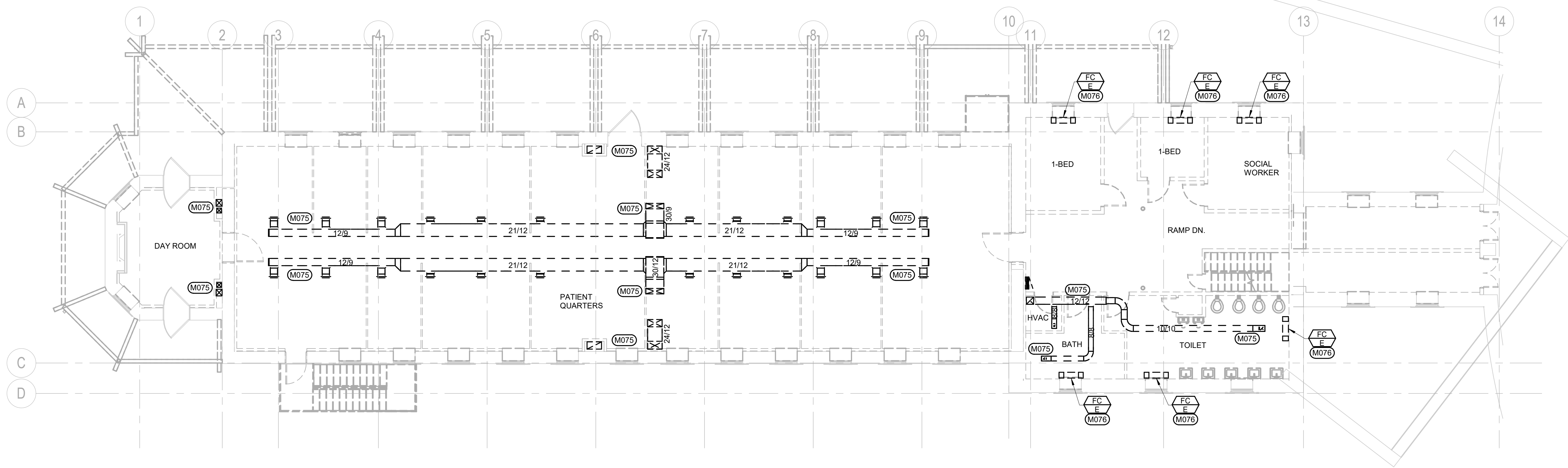
Checked
DLD

Drawn
TAJ

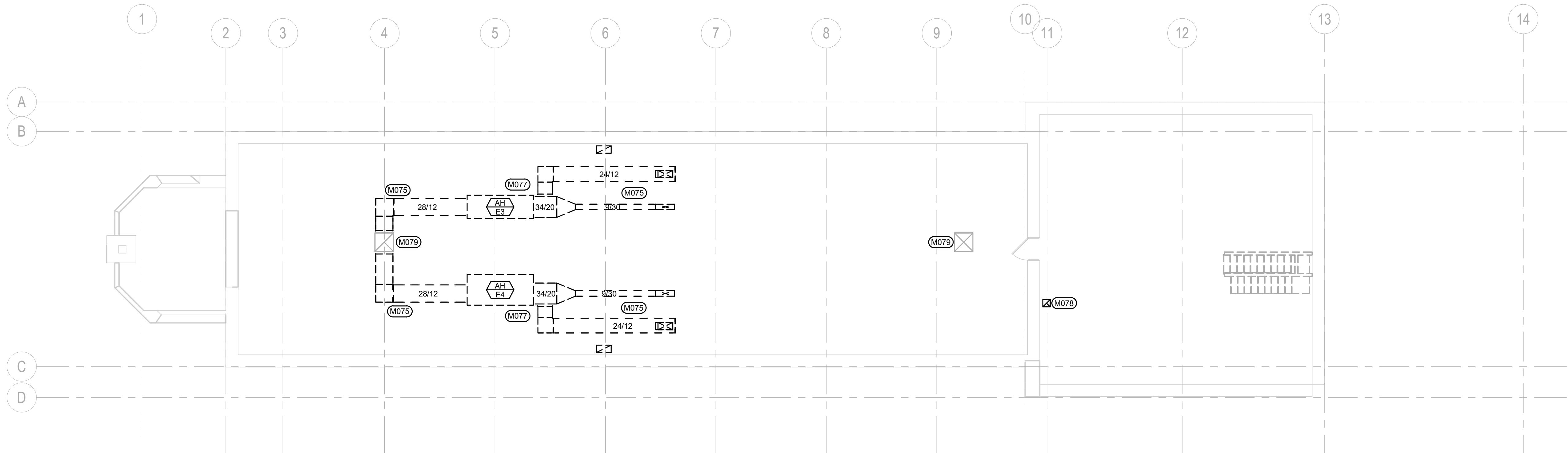
Project Number
VA #568A4-21-208
SGA #BR21039

Building Number
8

Drawing Number
MD-103



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



2 ATTIC HVAC DEMOLITION PLAN
1/8" = 1'-0"

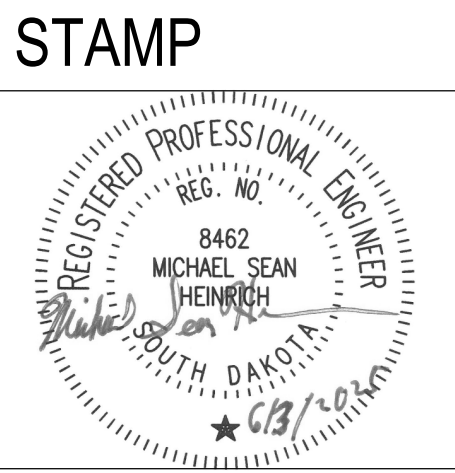
- MISCELLANEOUS DEMOLITION NOTES**
- A. COORDINATE PHASING AND REMOVAL OF EXISTING PIPING, DUCTWORK AND EQUIPMENT WITH OWNER.
 - B. OWNER SHALL HAVE FIRST RIGHT OF SALVAGE. ALL UNWANTED ITEMS SHALL BE COMPLETELY REMOVED FROM SITE AND DISPOSED OF LEGALLY.
 - C. CONTRACTOR SHALL REMOVE ALL EQUIPMENT, DUCTWORK AND PIPING THAT IS DASHED ON PLANS.
- MECHANICAL SPECIFIC NOTES**
- M075 REMOVE EXISTING DUCTWORK WHERE INDICATED BY DEMOLITION LINE TYPE.
 - M076 REMOVE EXISTING FAN COIL IN ITS ENTIRETY.
 - M077 REMOVE EXISTING AIR HANDLING UNIT AND ASSOCIATED DUCTWORK AND CONTROLS IN ITS ENTIRETY.
 - M078 REMOVE EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK.
 - M079 EXISTING CUPULA SHALL REMAIN. PREPARE AREA TO RECEIVE NEW WORK ON SHEET MH-102, ATTIC HVAC PLAN.

ISSUE #	DESCRIPTION	DATE
1	BID DOCUMENTS	06/03/25

CONSULTANTS	
STRUCTURAL: ALBERTSON ENGINEERING, INC. 3202 W. MAIN ST., #C RAPID CITY, SD 57702 605-343-9606 STEPHEN KILBER	 Albertson Engineering Inc.

MEP: WEST PLAINS ENGINEERING, INC. 1750 RAND ROAD RAPID CITY, SD 57702 605-348-7455 MIKE SIGMAN (ELEC) MICHAEL HEINRICH (MECH)	 WEST PLAINS ENGINEERING, INC.
---	-----------------------------------

DESIGNER OF RECORD	
A/E: Stone Group Architects 600 E. 7th Street Sioux Falls, SD 57103 phone: 605.271.1144 stonegrouparchitects.com	 STONE GROUP ARCHITECTS



Office of Construction and Facilities Management
U.S. Department of Veterans Affairs

Drawing Title SECOND FLOOR & ATTIC HVAC DEMOLITION PLANS
Approved DOUG SPRINKLE

Phase 100% CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED

Project Title DOM RENOVATION FOR SEMIPRIVATE ROOMS
Location HOT SPRINGS, SOUTH DAKOTA
Issue Date 06/03/2025
Checked DLD
Drawn TAJ

Project Number VA #568A4-21-208 SGA #BR21039
Building Number 8
Drawing Number MD-104



1 BASEMENT PIPING PLAN

1/8" = 1'-0"



2 FIRST FLOOR PIPING PLAN

1/8" = 1'-0"

MISCELLANEOUS HYDRONIC NOTES

- COORDINATE LOCATIONS OF PIPING WITH OTHER TRADES.
- DO NOT ROUTE PIPING ABOVE ELECTRICAL PANELS. MAINTAIN ALL CODE REQUIRED CLEARANCES.
- ALL PIPING INSULATION SERVING CHILLED WATER PIPING SHALL BE INSTALLED WITH UNBROKEN VAPOR BARRIERS AS PER SPECIFICATIONS. CONTRACTOR TO USE METAL SADDLES AND STRAPS ON EXTERIOR OF INSULATION FOR SUPPORT OF PIPING AT HANGERS, UNISTRUT, ETC.
- 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.
- UNLESS OTHERWISE NOTED, ALL PIPING IS OVERHEAD, TIGHT TO UNDERSIDE OF STRUCTURE, WITH SPACE FOR INSULATION.
- INSTALL PIPING SO THAT ALL VALVES, STRAINERS, UNIONS, FLANGES, AND OTHER APPURTENANCES REQUIRING ACCESS ARE ACCESSIBLE.
- UNIONS OR FLANGES SHALL BE INSTALLED AT EACH PIECE OF EQUIPMENT TO PERMIT DISASSEMBLY FOR ALTERATION AND REPAIRS.
- PROVIDE ISOLATION VALVES TO ALL EQUIPMENT TO FACILITATE MAINTENANCE.

MECHANICAL SPECIFIC NOTES

- M100 EXTENDED EXISTING CONCRETE TO SUPPORT CHILLER CH-1. CONCRETE PAD SHALL CONSIST OF 4500 PSI, 28-DAY STRENGTH CONCRETE WITH TWO LAYERS OF #4 REBAR, 12" O.C. BOTH DIRECTIONS, AND DOWEL PINS EMBEDDED 8" INTO EXISTING CONCRETE PAD 16" O.C. IN ADDITION, PROVIDE A PAINTED STEEL PROTECTIVE EQUIPMENT ENCLOSURE CONSISTING OF 1/8" X 2" X 2" ANGLE FRAME TOP WITH 1/8" THICK EXPANDED METAL SUPPORTED 24" O.C. AND 1/8" X 2" X 2" ANGLE COLUMNS WITH 3/16" BASE PLATES ANCHORED TO THE CONCRETE PAD.
- M101 2" CWS, 2" CWR, 1-1/2" HWS, AND 1-1/2" HWR PIPING UP TO FIRST FLOOR. REFER TO FIRST FLOOR PIPING PLAN ON THIS SHEET FOR CONTINUATION.
- M102 2-1/2" CWS, 2-1/2" CWR, 2" HWS, AND 2" HWR PIPING UP TO FIRST FLOOR. REFER TO FIRST FLOOR PIPING PLAN ON THIS SHEET FOR CONTINUATION.
- M103 2" CWS, 2" CWR, 1-1/4" HWS, AND 1-1/4" HWR PIPING UP TO FIRST FLOOR. REFER TO FIRST FLOOR PIPING PLAN ON THIS SHEET FOR CONTINUATION.
- M104 1" CWS, 1" CWR, 3/4" HWS, AND 3/4" HWR PIPING UP TO FIRST FLOOR. REFER TO FIRST FLOOR PIPING PLAN ON THIS SHEET FOR CONTINUATION.
- M105 2" CWS, 2" CWR, 1-1/2" HWS, AND 1-1/2" HWR PIPING UP FROM BASEMENT. REFER TO BASEMENT PIPING PLAN ON THIS SHEET FOR CONTINUATION. 1-1/2" CWS, 1-1/2" CWR, 1" HWS, AND 1" HWR PIPING UP TO SECOND FLOOR. REFER TO SHEET MP-102, SECOND FLOOR PIPING PLAN FOR CONTINUATION.
- M106 2-1/2" CWS, 2-1/2" CWR, 2" HWS, AND 2" HWR PIPING UP FROM BASEMENT. REFER TO BASEMENT PIPING PLAN ON THIS SHEET FOR CONTINUATION. 2" CWS, 2" CWR, 1-1/4" HWS, AND 1-1/4" HWR PIPING UP TO SECOND FLOOR. REFER TO SHEET MP-102, SECOND FLOOR PIPING PLAN FOR CONTINUATION.
- M107 2" CWS, 2" CWR, 1-1/4" HWS, AND 1-1/4" HWR PIPING UP FROM BASEMENT. REFER TO BASEMENT PIPING PLAN ON THIS SHEET FOR CONTINUATION. 1-1/4" CWS, 1-1/4" CWR, 1" HWS, AND 1" HWR PIPING UP TO SECOND FLOOR. REFER TO SHEET MP-102, SECOND FLOOR PIPING PLAN FOR CONTINUATION.
- M108 1" CWS, 1" CWR, 3/4" HWS, AND 3/4" HWR PIPING UP FROM BASEMENT. REFER TO BASEMENT PIPING PLAN ON THIS SHEET FOR CONTINUATION. 1" CWS, 1" CWR, 3/4" HWS, AND 3/4" HWR PIPING UP TO SECOND FLOOR. REFER TO SHEET MP-102, SECOND FLOOR PIPING PLAN FOR CONTINUATION.

1	BID DOCUMENTS	06/03/25
ISSUE #	DESCRIPTION	DATE
1	BID DOCUMENTS	06/03/25

CONSULTANTS

STRUCTURAL:
ALBERTSON ENGINEERING, INC.
3202 W. MAIN ST., #C
RAPID CITY, SD 57702
605-343-9606
STEPHEN KILBER

MEP:
WEST PLAINS ENGINEERING, INC.
1750 RAND ROAD
RAPID CITY, SD 57702
605-348-7455
MIKE SIGMAN (ELEC)
MICHAEL HEINRICH (MECH)

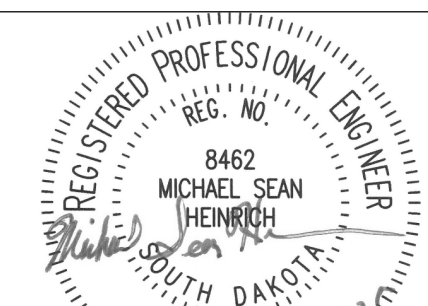
Albertson Engineering Inc.

DESIGNER OF RECORD

A/E:
Stone Group Architects
600 E. 7th Street
Sioux Falls, SD 57103
phone: 605.271.1144
stonegrouparchitects.com

STONE GROUP ARCHITECTS

STAMP



Office of
Construction
and Facilities
Management



U.S. Department
of Veterans Affairs

Drawing Title
BASEMENT & FIRST FLOOR PIPING PLANS

Approved
DOUG SPRINKLE

Phase
100% CONSTRUCTION
DOCUMENTS

FULLY SPRINKLERED

Project Title
DOM RENOVATION FOR
SEMIPRIVATE ROOMS

Location
HOT SPRINGS, SOUTH DAKOTA

Issue Date
06/03/2025

Checked
DLD

Drawn
TAJ

Project Number
VA #568A4-21-208
SGA #BR21039
Building Number
8

Drawing Number
MP-101

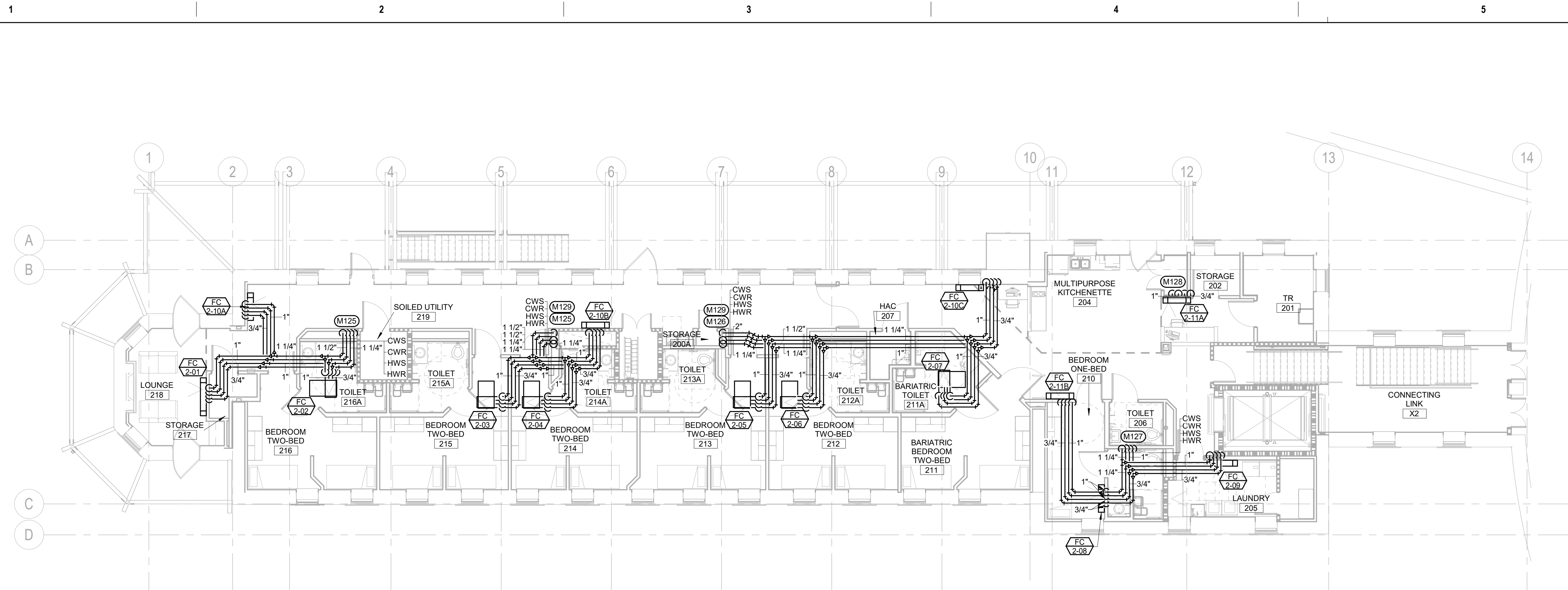
6/22/2025 9:55:52 AM

C:\Real\Local\Files\2025\BR21039\Hot Springs\Domestic Renovation\Building\MEP25\Central\Imperial\jordan.jordan.net

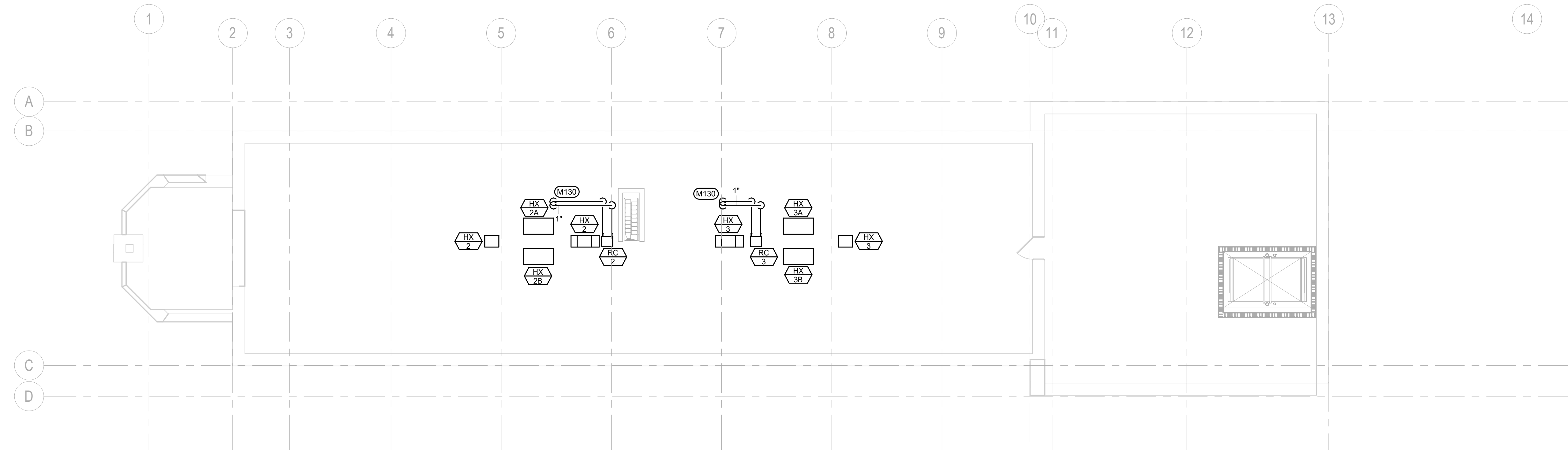
VA FORM 08 - 6231

THREE INCHES - ONE FOOT (3" = 1'-0")
ONE AND ONE HALF INCHES - ONE FOOT (1 1/2" = 1'-0")
ONE INCH - ONE FOOT (1" = 1'-0")
THREE QUARTERS INCH - ONE FOOT (3/4" = 1'-0")
ONE HALF INCH - ONE FOOT (1/2" = 1'-0")
THREE EIGHTHS INCH - ONE FOOT (3/8" = 1'-0")
ONE QUARTER INCH - ONE FOOT (1/4" = 1'-0")
ONE EIGHTH INCH - ONE FOOT (1/8" = 1'-0")

C:\Real\Local\Draw\2022\BPR21035 Hot Springs Detention Building 3-MEP25 Central_Tentative.dwg
6/22/2025 9:59:59 AM



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



2 ATTIC PIPING PLAN
1/8" = 1'-0"

- MISCELLANEOUS HYDRONIC NOTES**
- A. COORDINATE LOCATIONS OF PIPING WITH OTHER TRADES.
 - B. DO NOT ROUTE PIPING ABOVE ELECTRICAL PANELS. MAINTAIN ALL CODE REQUIRED CLEARANCES.
 - C. ALL PIPING INSULATION SERVING CHILLED WATER PIPING SHALL BE INSTALLED WITH UNBROKEN VAPOR BARRIERS AS PER SPECIFICATIONS. CONTRACTOR TO USE METAL SADDLES AND STRAPS ON EXTERIOR OF INSULATION FOR SUPPORT OF PIPING AT HANGERS, UNISTRUT, ETC.
 - D. 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.
 - E. UNLESS OTHERWISE NOTED, ALL PIPING IS OVERHEAD, TIGHT TO UNDERSIDE OF STRUCTURE, WITH SPACE FOR INSULATION.
 - F. INSTALL PIPING SO THAT ALL VALVES, STRAINERS, UNIONS, FLANGES, AND OTHER APPURTENANCES REQUIRING ACCESS ARE ACCESSIBLE.
 - G. UNIONS OR FLANGES SHALL BE INSTALLED AT EACH PIECE OF EQUIPMENT TO PERMIT DISASSEMBLY FOR ALTERATION AND REPAIRS.
 - H. PROVIDE ISOLATION VALVES TO ALL EQUIPMENT TO FACILITATE MAINTENANCE.
- MECHANICAL SPECIFIC NOTES**
- M125 1-1/2" CWS, 1-1/2" CWR, 1-1/4" HWS, AND 1-1/4" HWR PIPING UP FROM FIRST FLOOR. REFER TO SHEET MP-101, FIRST FLOOR PIPING PLAN FOR CONTINUATION.
 - M126 2" CWS, 2" CWR, 1-1/4" HWS, AND 1-1/4" HWR PIPING UP FROM FIRST FLOOR. REFER TO SHEET MP-101, FIRST FLOOR PIPING PLAN FOR CONTINUATION.
 - M127 1-1/4" CWS, 1-1/4" CWR, 1" HWS, AND 1" HWR PIPING UP FROM FIRST FLOOR. REFER TO SHEET MP-101, FIRST FLOOR PIPING PLAN FOR CONTINUATION.
 - M128 1" CWS, 1" CWR, 3/4" HWS, AND 3/4" HWR PIPING UP FROM FIRST FLOOR. REFER TO SHEET MP-101, FIRST FLOOR PIPING PLAN FOR CONTINUATION.
 - M129 1" HWS, AND 1" HWR PIPING UP TO ATTIC. REFER TO ATTIC PIPING PLAN ON THIS SHEET FOR CONTINUATION.
 - M130 1" HWS, AND 1" HWR PIPING UP FROM SECOND FLOOR. REFER TO SECOND FLOOR PIPING PLAN ON THIS SHEET FOR CONTINUATION.

ISSUE #	DESCRIPTION	DATE
1	BID DOCUMENTS	06/03/25

CONSULTANTS	
STRUCTURAL: ALBERTSON ENGINEERING, INC. 3202 W. MAIN ST., #C RAPID CITY, SD 57702 605-343-9606 STEPHEN KILBER	MEP: WEST PLAINS ENGINEERING, INC. 1750 RAND ROAD RAPID CITY, SD 57702 605-348-7455 MIKE SIGMAN (ELEC) MICHAEL HEINRICH (MECH)

DESIGNER OF RECORD	STAMP
A/E: Stone Group Architects 600 E. 7th Street Sioux Falls, SD 57103 phone: 605.271.1144 stonegrouparchitects.com	

Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs
--

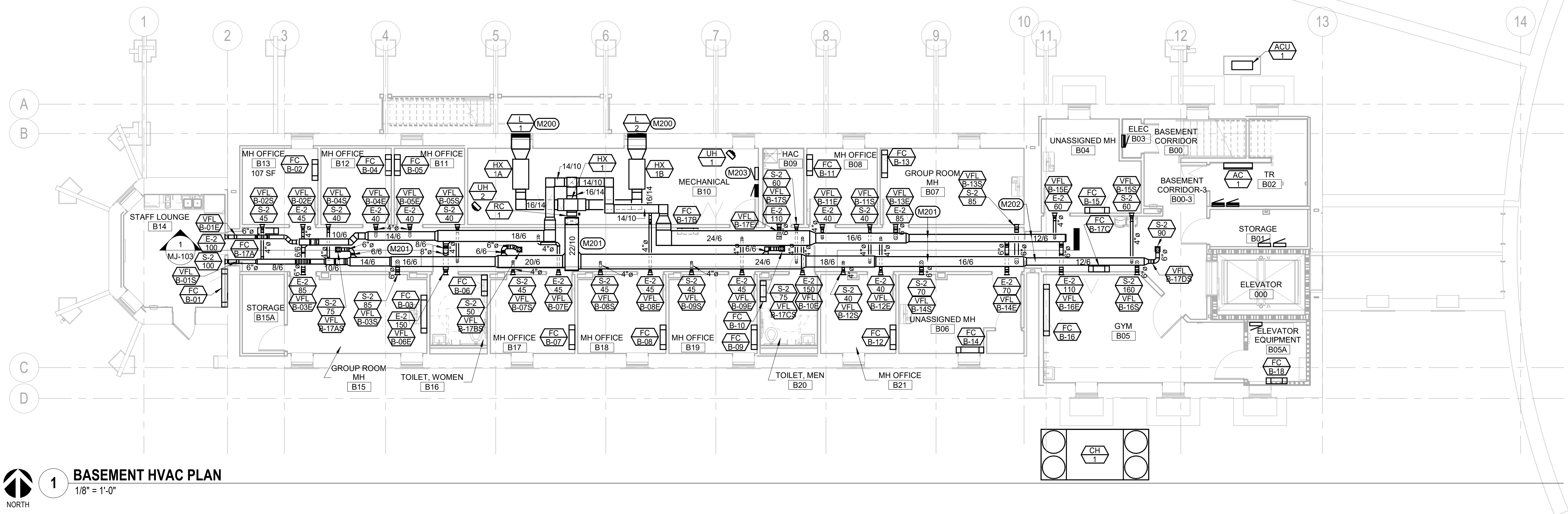
Drawing Title SECOND FLOOR & ATTIC PIPING PLANS	Phase 100% CONSTRUCTION DOCUMENTS
Approved DOUG SPRINKLE	FULLY SPRINKLERED

Phase

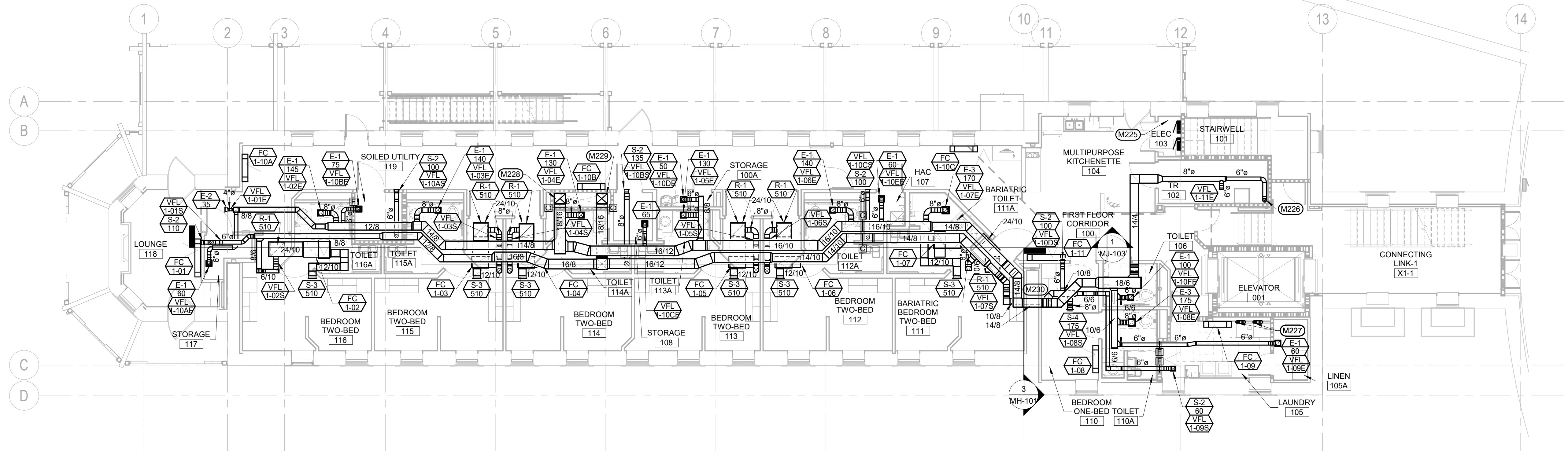
100% CONSTRUCTION
DOCUMENTS

FULLY SPRINKLERED

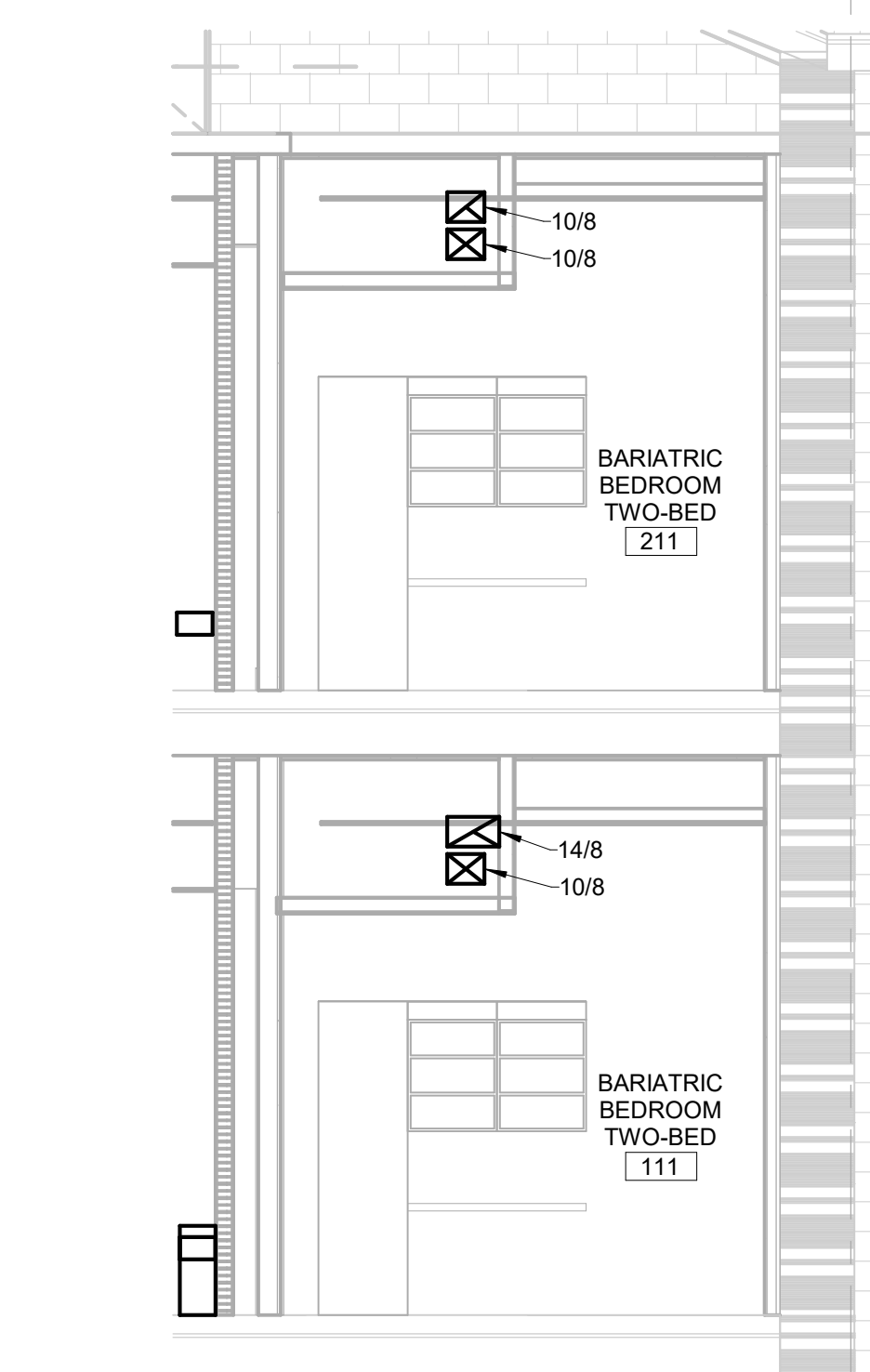
Project Title DOM RENOVATION FOR SEMIPRIVATE ROOMS	Project Number VA #568A4-21-208 SGA #BR21039
Drawing Number 8	Drawing Number MP-102



1 BASEMENT HVAC PLAN
1/8" = 1'-0"



2 FIRST FLOOR HVAC PLAN
1/8" = 1'-0"



3 EAST HVAC SECTION
1/4" = 1'-0"

- MISCELLANEOUS HVAC NOTES**
- A COORDINATE LOCATION OF DUCTWORK WITH STRUCTURE AND OTHER TRADES. INSTALL DUCTWORK AS HIGH AS POSSIBLE, UNLESS OTHERWISE NOTED. PROVIDE ALL ADDITIONAL OFFSETS AND TRANSITIONS AS REQUIRED TO COMPLETE INSTALLATION AT NO ADDITIONAL COST TO THE PROJECT.
 - B DO NOT ROUTE ABOVE ELECTRICAL PANELS. MAINTAIN ALL CODE REQUIRED CLEARANCES.
 - C MAINTAIN CURRENT AND ACCURATE FIELD DRAWINGS OF "AS-BUILT" CONDITIONS. THESE DRAWINGS SHALL BE REVIEWED AT EACH CONSTRUCTION PROGRESS MEETING.
- MECHANICAL SPECIFIC NOTES**
- M200 REFER TO LOUVER DETAIL ON SHEET MJ-101.
 - M201 COORDINATE ROUTING OF DUCTWORK IN THE CORRIDOR WITH PIPING AND OTHER TRADES.
 - M202 COORDINATE DUCT PENETRATIONS WITH STRUCTURE.
 - M203 PROVIDE TEMPERATURE CONTROL PANEL IN THIS LOCATION.
 - M225 BAS TO PROVIDE ASTROLOGICAL CONTROL OF LIGHTING CONTACTOR WITHIN THIS SPACE. COORDINATE INSTALL WITH DIVISION 26 CONTRACTOR.
 - M226 6" EXHAUST AIR DUCT DOWN FROM SECOND FLOOR. REFER TO SHEET MH-102, SECOND FLOOR HVAC PLAN FOR CONTINUATION.
 - M227 4" DRYER DUCT UP TO SECOND FLOOR. REFER TO SHEET MH-102, SECOND FLOOR HVAC PLAN FOR CONTINUATION.
 - M228 18" EXHAUST AIR DUCT UP TO SECOND FLOOR. REFER TO SHEET MH-102, SECOND FLOOR HVAC PLAN FOR CONTINUATION.
 - M229 18" SUPPLY AIR DUCT DOWN FROM SECOND FLOOR. REFER TO SHEET MH-102, SECOND FLOOR HVAC PLAN FOR CONTINUATION.
 - M230 DUCTWORK TO BE ROUTED THROUGH EXISTING MASONRY WALL IN THIS LOCATION. COORDINATE WALL PENETRATION WITH STRUCTURAL AND ALL OTHER TRADES.

CONSULTANTS

STRUCTURAL:
ALBERTSON ENGINEERING, INC.
3202 W. MAIN ST., #C
RAPID CITY, SD 57702
605-343-9606
STEPHEN KILBER

Albertson Engineering Inc.

MEP:
WEST PLAINS ENGINEERING, INC.
1750 RAND ROAD
RAPID CITY, SD 57702
605-348-7455
MIKE SIGMAN (ELEC)
MICHAEL HEINRICH (MECH)

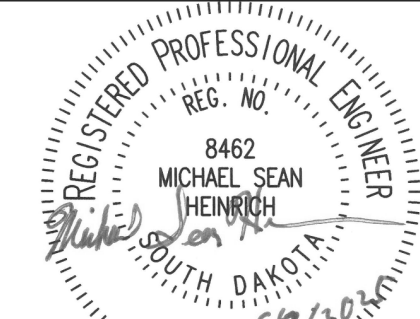
WPE WEST PLAINS ENGINEERING, INC.

DESIGNER OF RECORD

A/E:
Stone Group Architects
600 E. 7th Street
Sioux Falls, SD 57103
phone: 605.271.1144
stonegrouparchitects.com

STONE GROUP ARCHITECTS

STAMP



Office of
Construction
and Facilities
Management

VA U.S. Department
of Veterans Affairs

Drawing Title
BASEMENT & FIRST FLOOR HVAC PLANS

Approved
DOUG SPRINKLE

Phase
100% CONSTRUCTION
DOCUMENTS

FULLY SPRINKLERED

Project Title
DOM RENOVATION FOR
SEMIPRIVATE ROOMS

Location
HOT SPRINGS, SOUTH DAKOTA

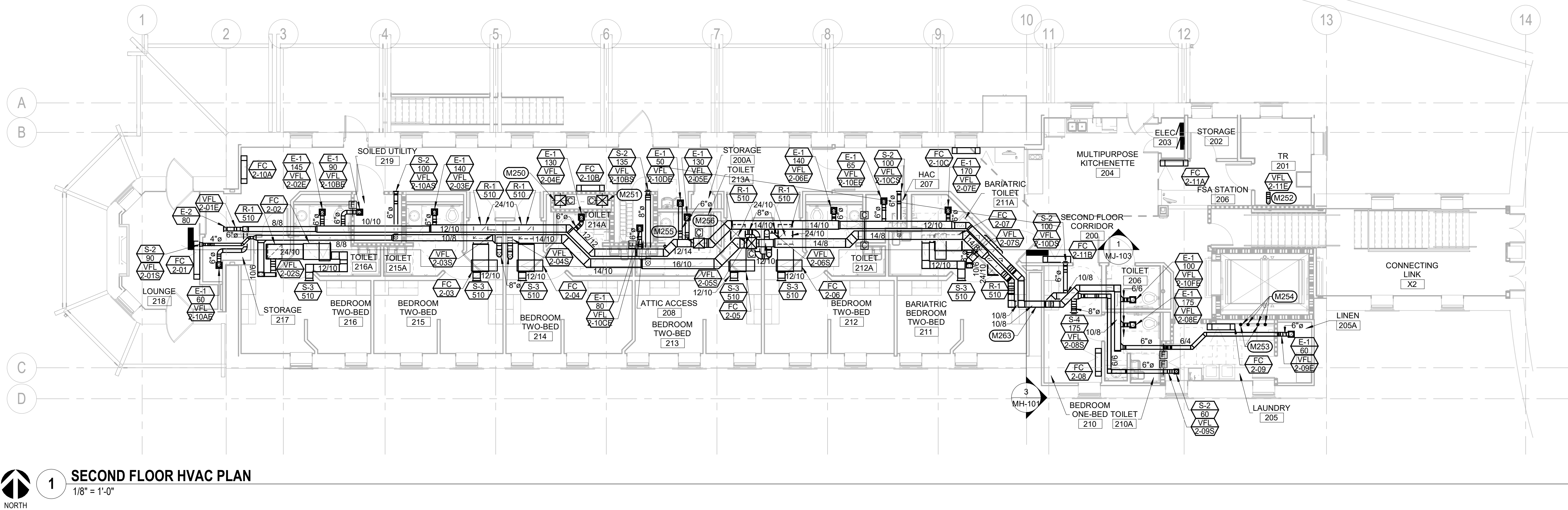
Issue Date
06/03/2025

Checked
DLD

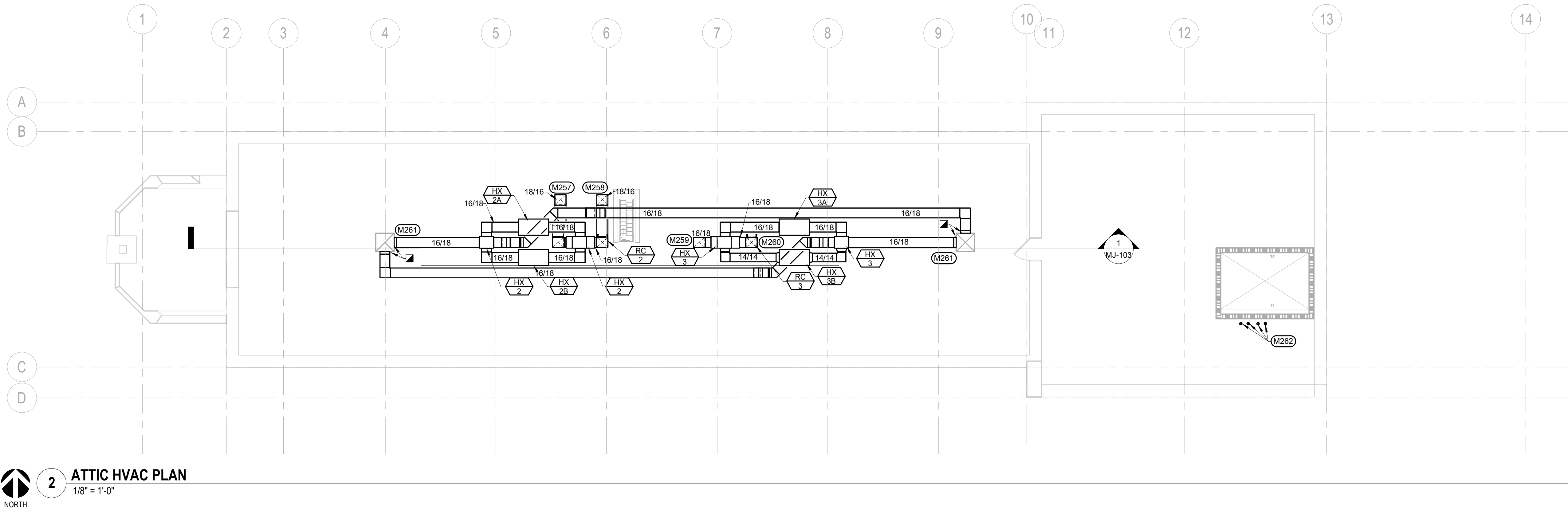
Drawn
TAJ

Project Number
VA #568A4-21-208
SGA #BR21039
Building Number
8

Drawing Number
MH-101



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



2 ATTIC HVAC PLAN
1/8" = 1'-0"

MISCELLANEOUS HVAC NOTES

- A COORDINATE LOCATION OF DUCTWORK WITH STRUCTURE AND OTHER TRADES. INSTALL DUCTWORK AS HIGH AS POSSIBLE, UNLESS OTHERWISE NOTED. PROVIDE ALL ADDITIONAL OFFSETS AND TRANSITIONS AS REQUIRED TO COMPLETE INSTALLATION AT NO ADDITIONAL COST TO THE PROJECT.
- B DO NOT ROUTE ABOVE ELECTRICAL PANELS. MAINTAIN ALL CODE REQUIRED CLEARANCES.
- C MAINTAIN CURRENT AND ACCURATE FIELD DRAWINGS OF "AS-BUILT" CONDITIONS. THESE DRAWINGS SHALL BE REVIEWED AT EACH CONSTRUCTION PROGRESS MEETING.

M2 MECHANICAL SPECIFIC NOTES

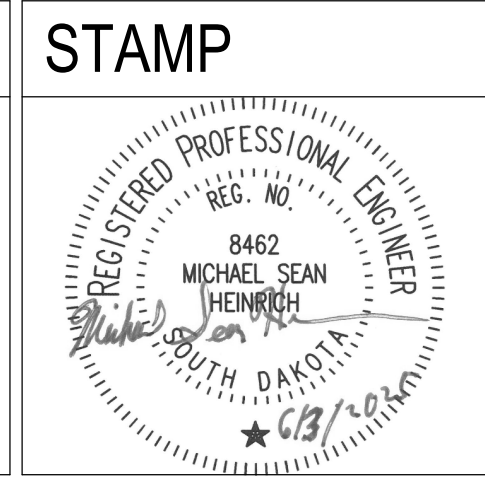
- M250 18/16 EXHAUST AIR DUCT FROM FIRST FLOOR. REFER TO SHEET MH-101, FIRST FLOOR HVAC PLAN FOR CONTINUATION. 18/16 EXHAUST AIR DUCT UP TO ATTIC. REFER TO ATTIC HVAC PLAN ON THIS SHEET FOR CONTINUATION.
- M251 18/16 SUPPLY AIR DUCT DOWN TO FIRST FLOOR. REFER TO SHEET MH-101, FIRST FLOOR HVAC PLAN FOR CONTINUATION. 18/16 SUPPLY AIR DUCT DOWN FROM ATTIC. REFER TO ATTIC HVAC PLAN ON THIS SHEET FOR CONTINUATION.
- M252 8" EXHAUST AIR DUCT DOWN TO FIRST FLOOR. REFER TO SHEET MH-101, FIRST FLOOR HVAC PLAN FOR CONTINUATION.
- M253 4" DRYER VENT UP FROM FIRST FLOOR. REFER TO SHEET MH-101, FIRST FLOOR HVAC PLAN FOR CONTINUATION.
- M254 4" DRYER VENT UP TO ATTIC. REFER TO ATTIC HVAC PLAN ON THIS SHEET FOR CONTINUATION.
- M255 16/18 EXHAUST AIR DUCT UP TO ATTIC. REFER TO ATTIC HVAC PLAN ON THIS SHEET FOR CONTINUATION.
- M256 16/18 SUPPLY AIR DUCT DOWN FROM ATTIC. REFER TO ATTIC HVAC PLAN ON THIS SHEET FOR CONTINUATION.
- M257 18/16 EXHAUST AIR DUCT UP FROM SECOND FLOOR. REFER TO SECOND FLOOR HVAC PLAN ON THIS SHEET FOR CONTINUATION.
- M258 18/16 SUPPLY AIR DUCT DOWN TO SECOND FLOOR. REFER TO SECOND FLOOR HVAC PLAN ON THIS SHEET FOR CONTINUATION.
- M259 16/18 EXHAUST AIR DUCT UP FROM SECOND FLOOR. REFER TO SECOND FLOOR HVAC PLAN ON THIS SHEET FOR CONTINUATION.
- M260 16/18 SUPPLY AIR DUCT DOWN TO ATTIC. REFER TO SECOND FLOOR HVAC PLAN ON THIS SHEET FOR CONTINUATION.
- M261 CONNECT DUCTWORK TO EXISTING AIR CUPULA. 4" DRYER VENT UP FROM SECOND FLOOR. REFER TO SECOND FLOOR HVAC PLAN ON THIS SHEET FOR CONTINUATION. DRYER VENT TO BE EXTERNALLY INSULATED, EXTENDING UP THROUGH ROOF, AND TERMINATED WITH A ROOF JACK MODEL 477 - LOW PROFILE ROOF VENT, OR EQUAL.
- M263 DUCTWORK TO BE ROUTED THROUGH EXISTING MASONRY WALL IN THIS LOCATION. COORDINATE WALL PENETRATION WITH STRUCTURAL AND ALL OTHER TRADES.

1	BID DOCUMENTS	06/03/25
ISSUE #	DESCRIPTION	DATE
1	BID DOCUMENTS	06/03/25

CONSULTANTS	
STRUCTURAL: ALBERTSON ENGINEERING, INC. 3202 W. MAIN ST., #C RAPID CITY, SD 57702 605-343-9606 STEPHEN KILBER	 Albertson Engineering Inc.

MEP: WEST PLAINS ENGINEERING, INC. 1750 RAND ROAD RAPID CITY, SD 57702 605-348-7455 MIKE SIGMAN (ELEC) MICHAEL HEINRICH (MECH)	 WEST PLAINS ENGINEERING, INC.
---	-----------------------------------

DESIGNER OF RECORD	
A/E: Stone Group Architects 600 E. 7th Street Sioux Falls, SD 57103 phone: 605.271.1144 stonegrouparchitects.com	 STONE GROUP ARCHITECTS

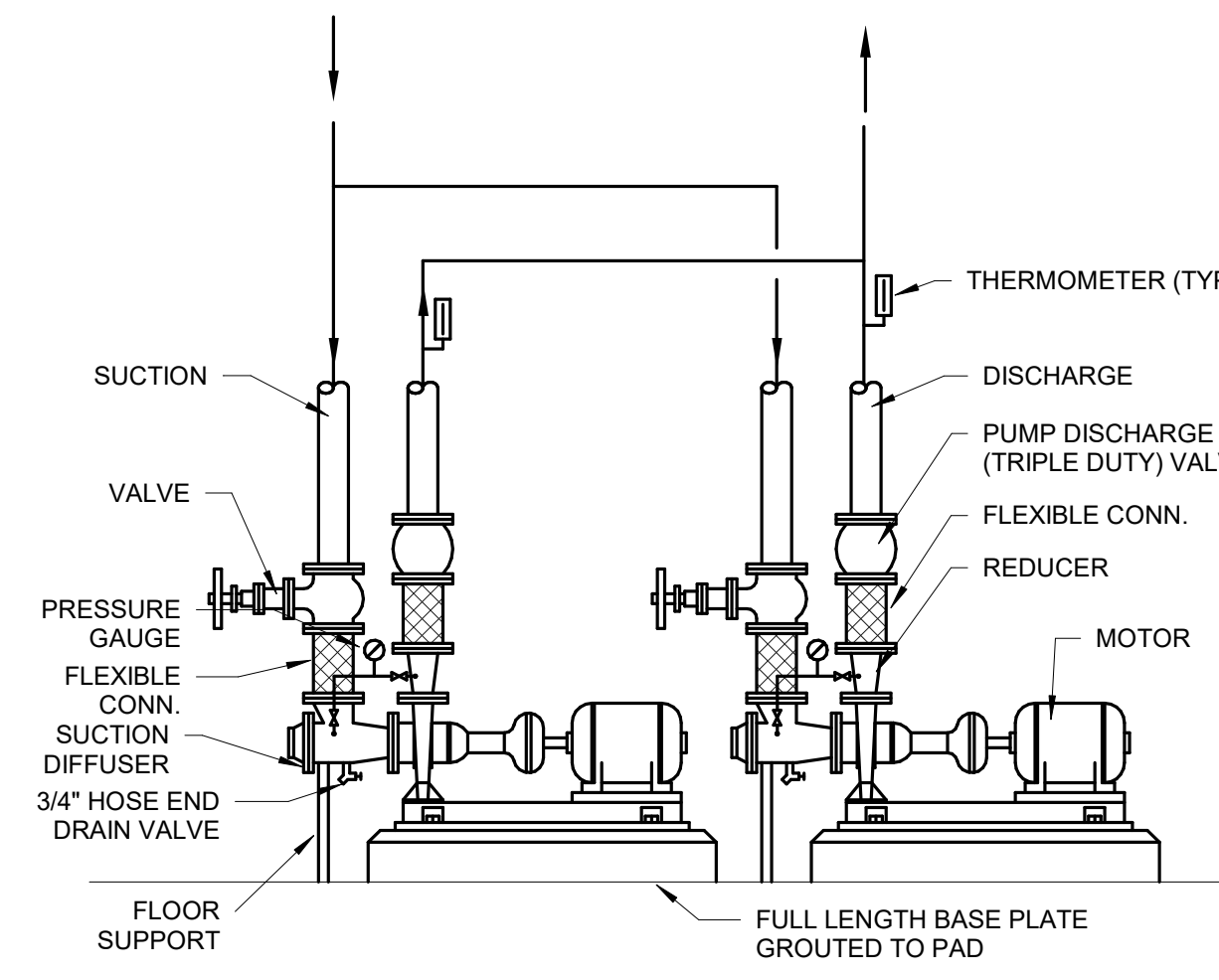
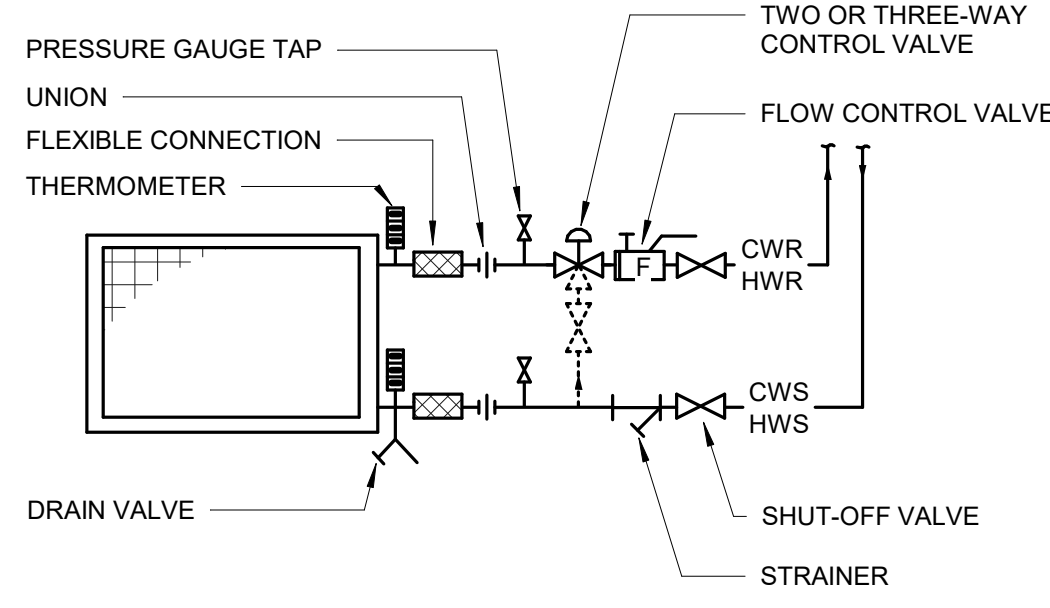
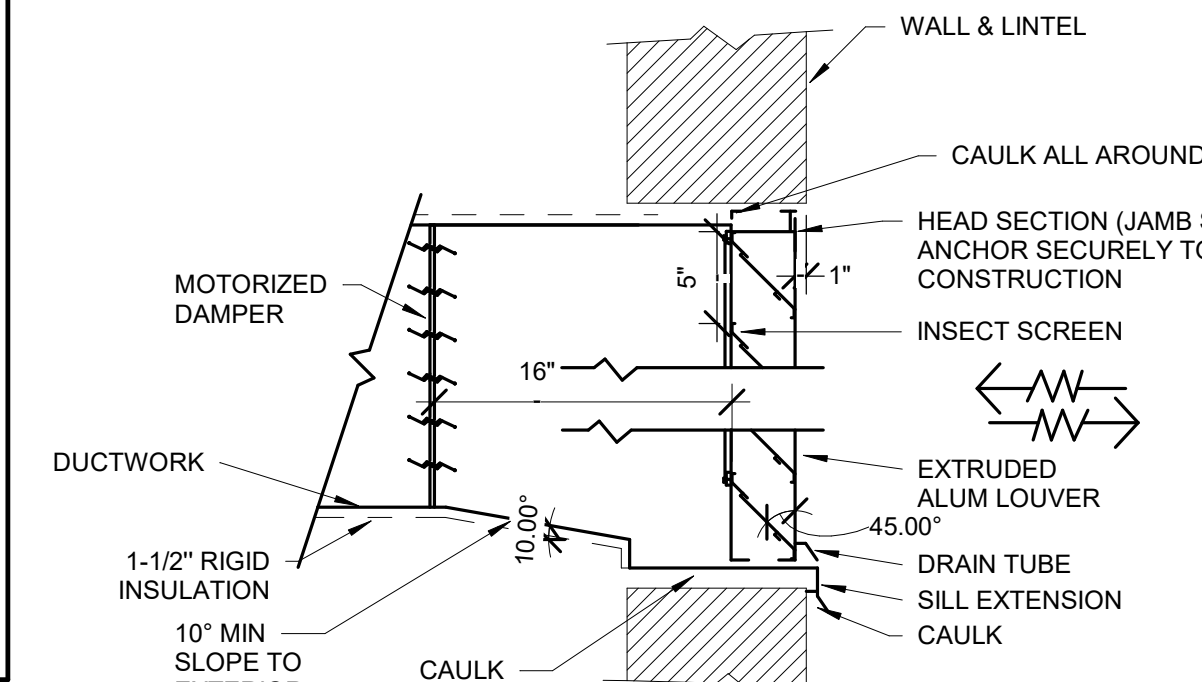
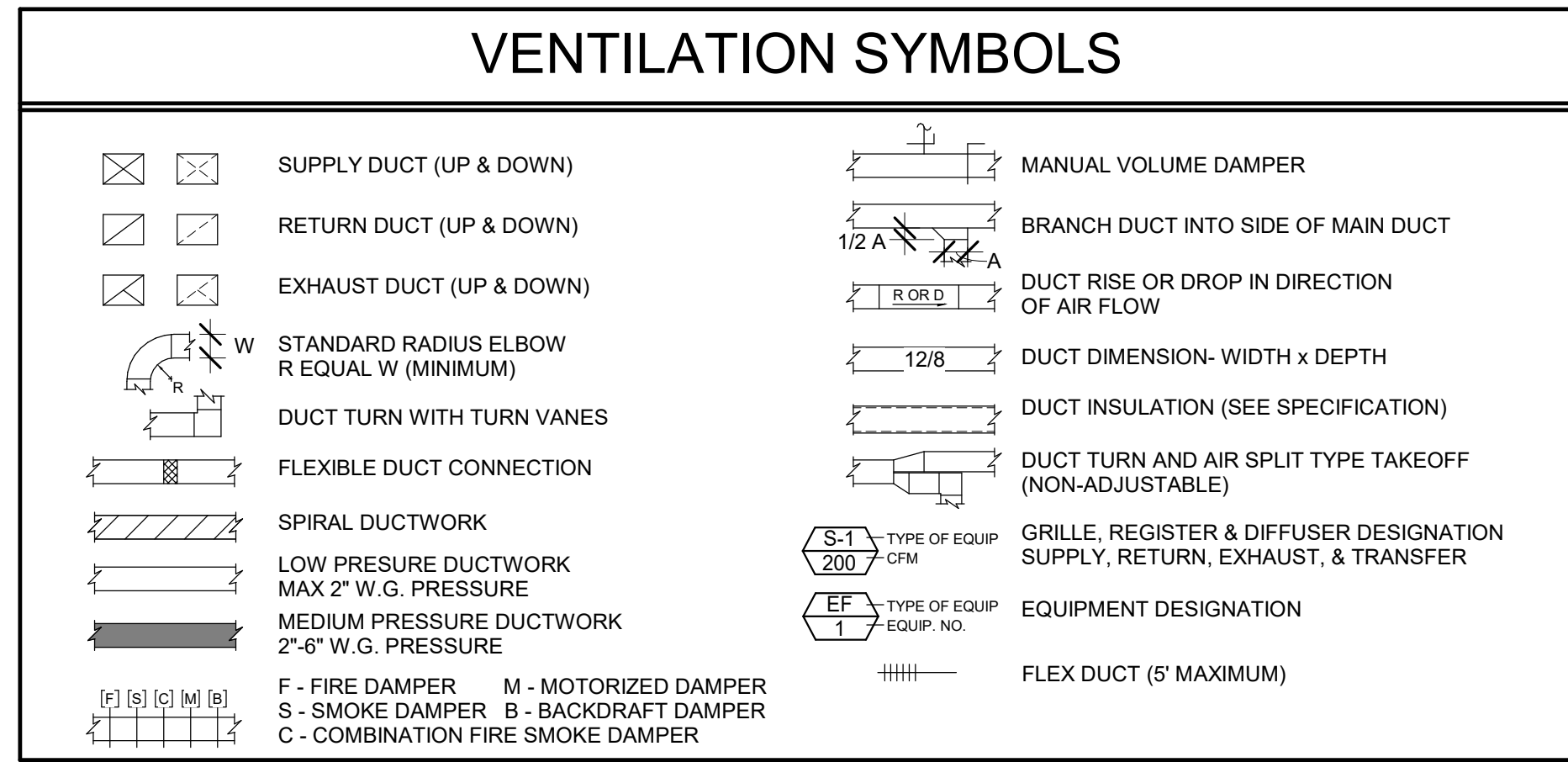


Drawing Title SECOND FLOOR & ATTIC HVAC PLANS
Approved DOUG SPRINKLE

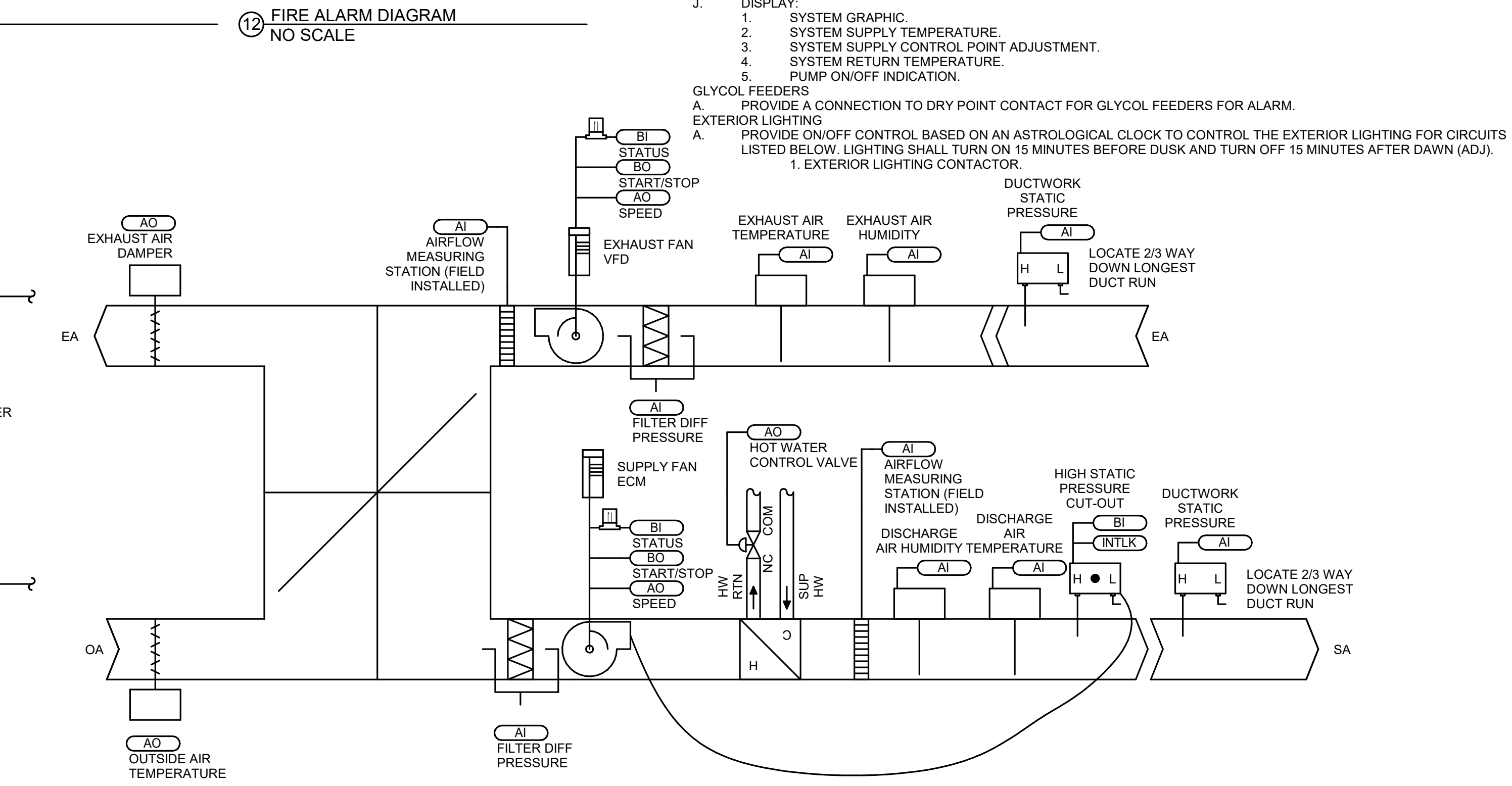
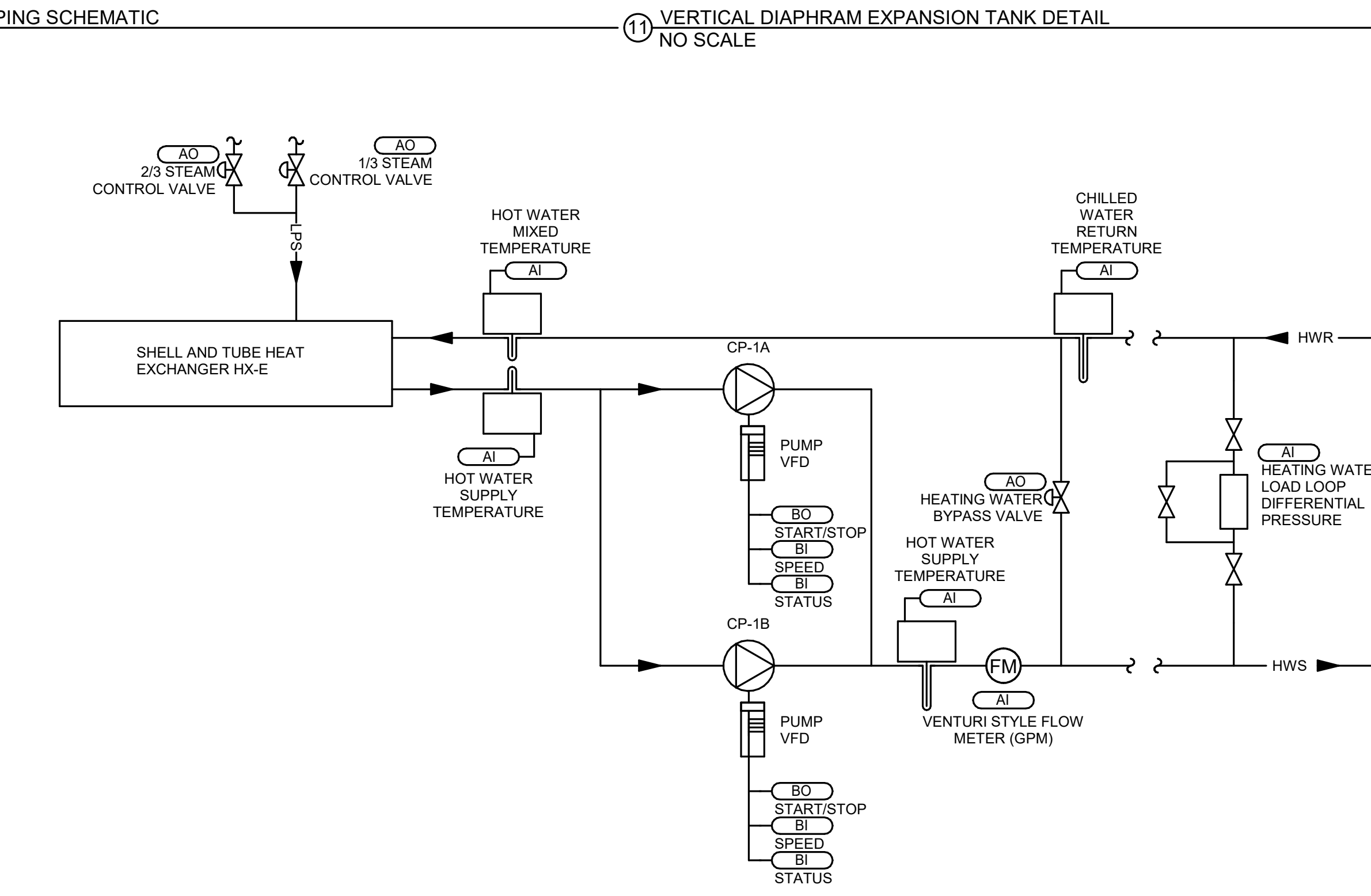
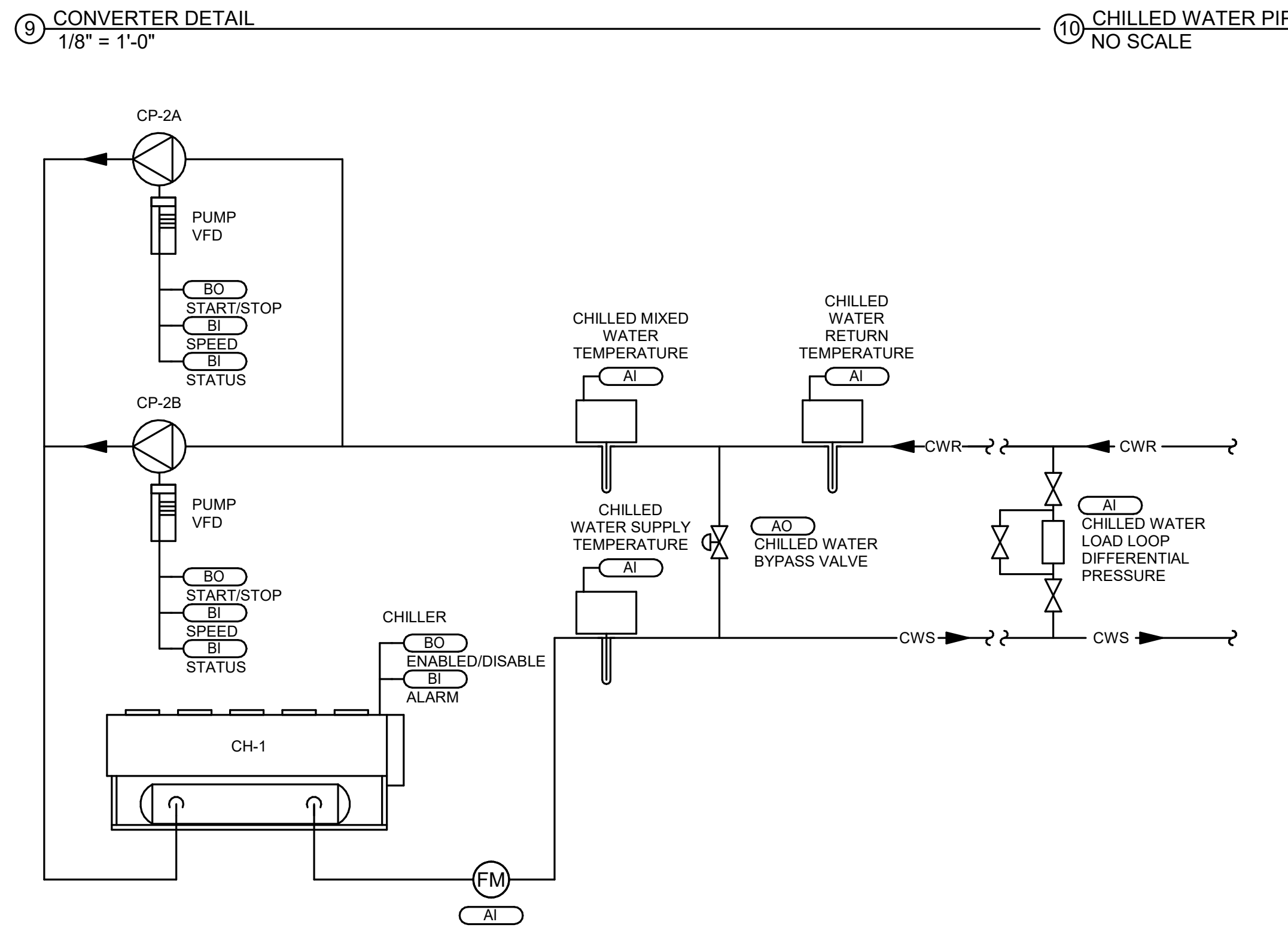
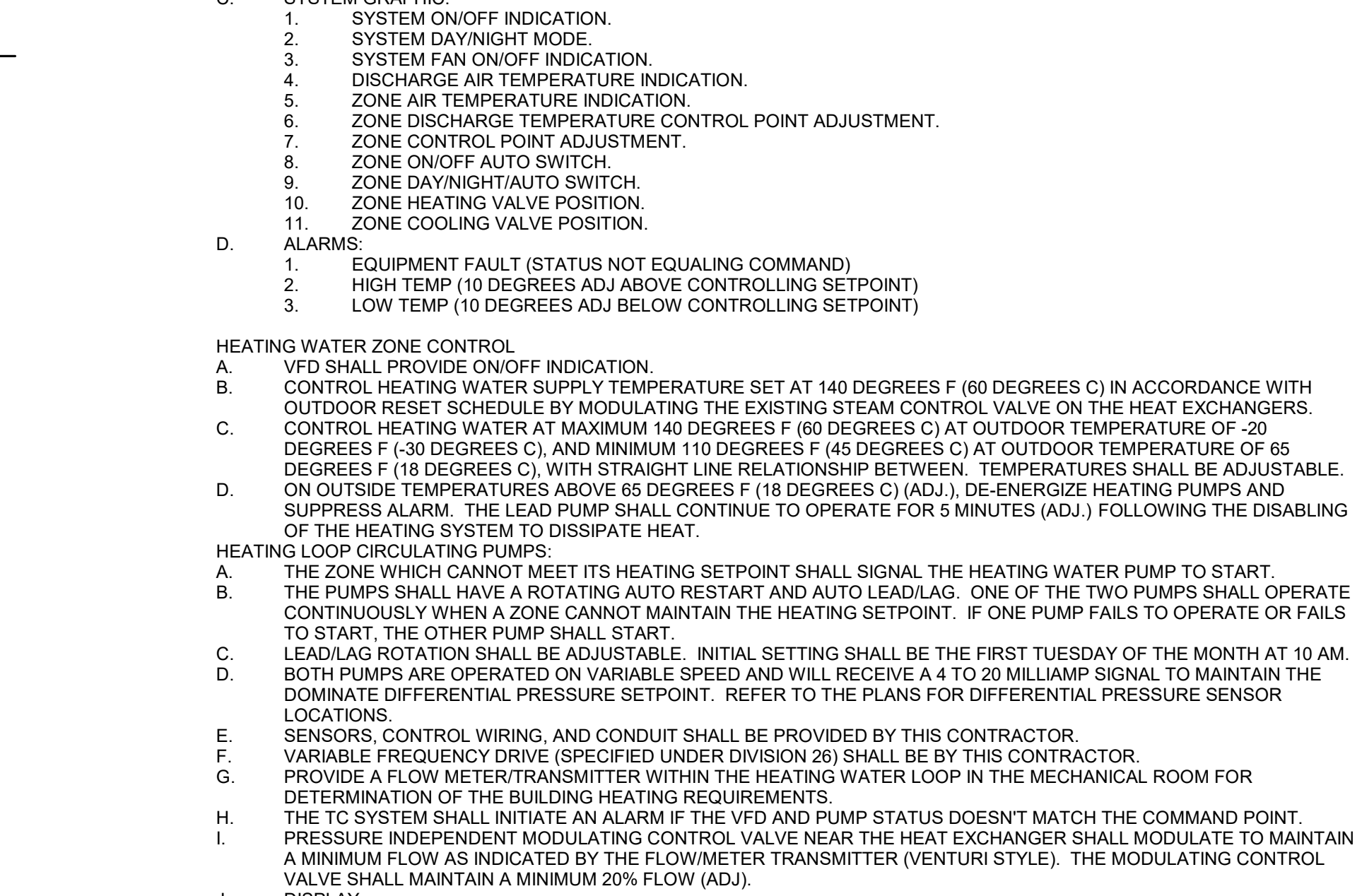
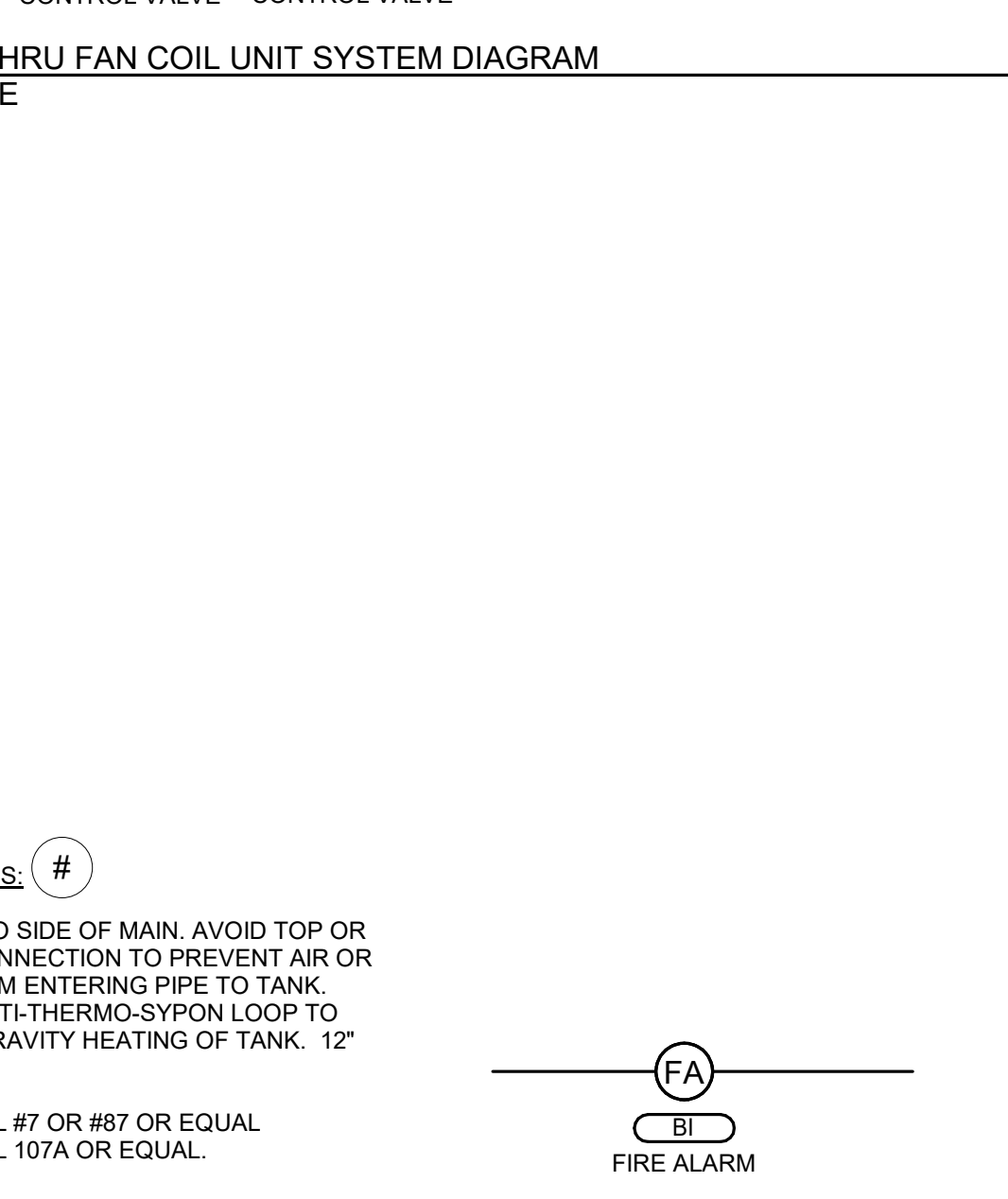
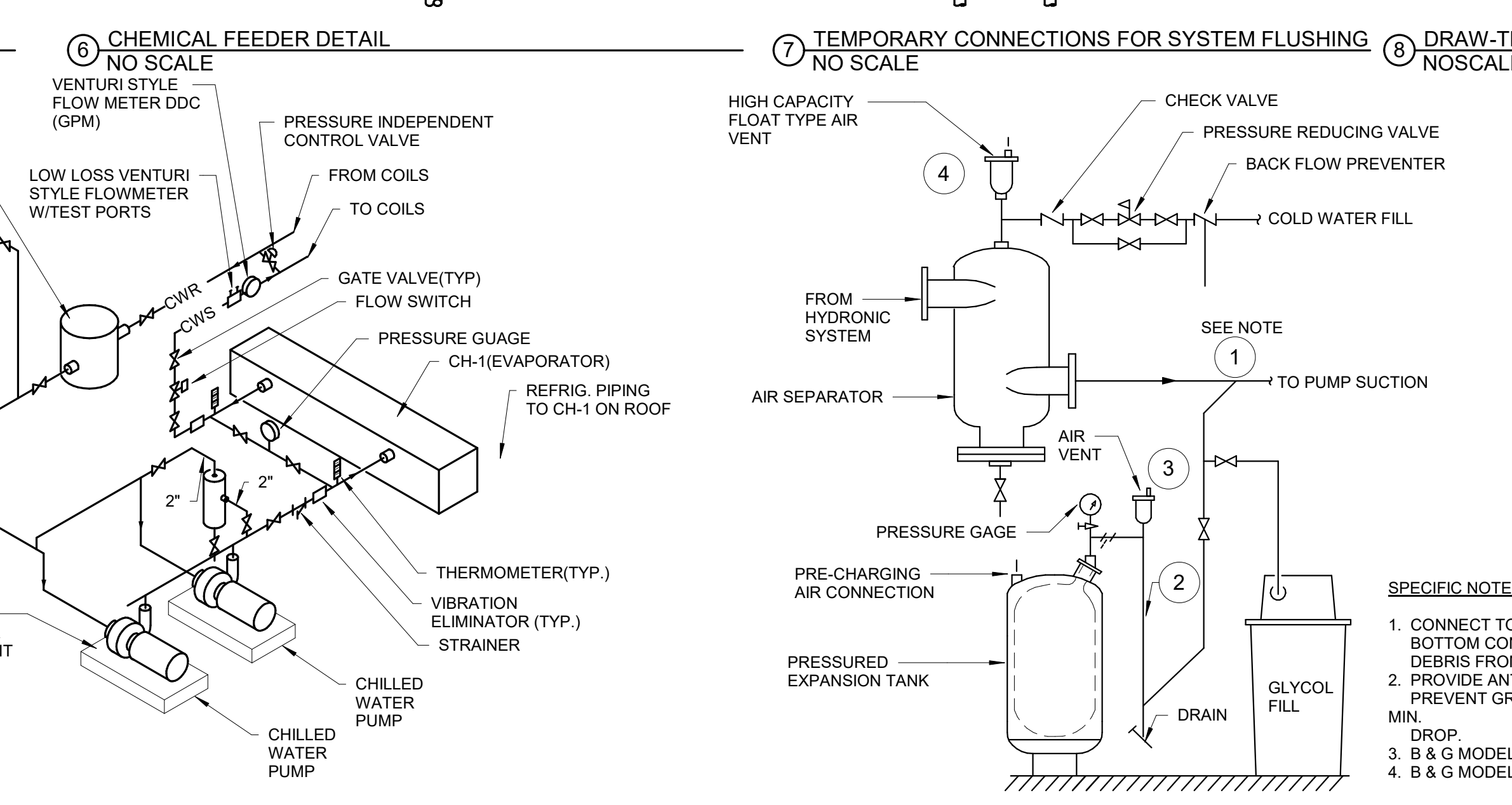
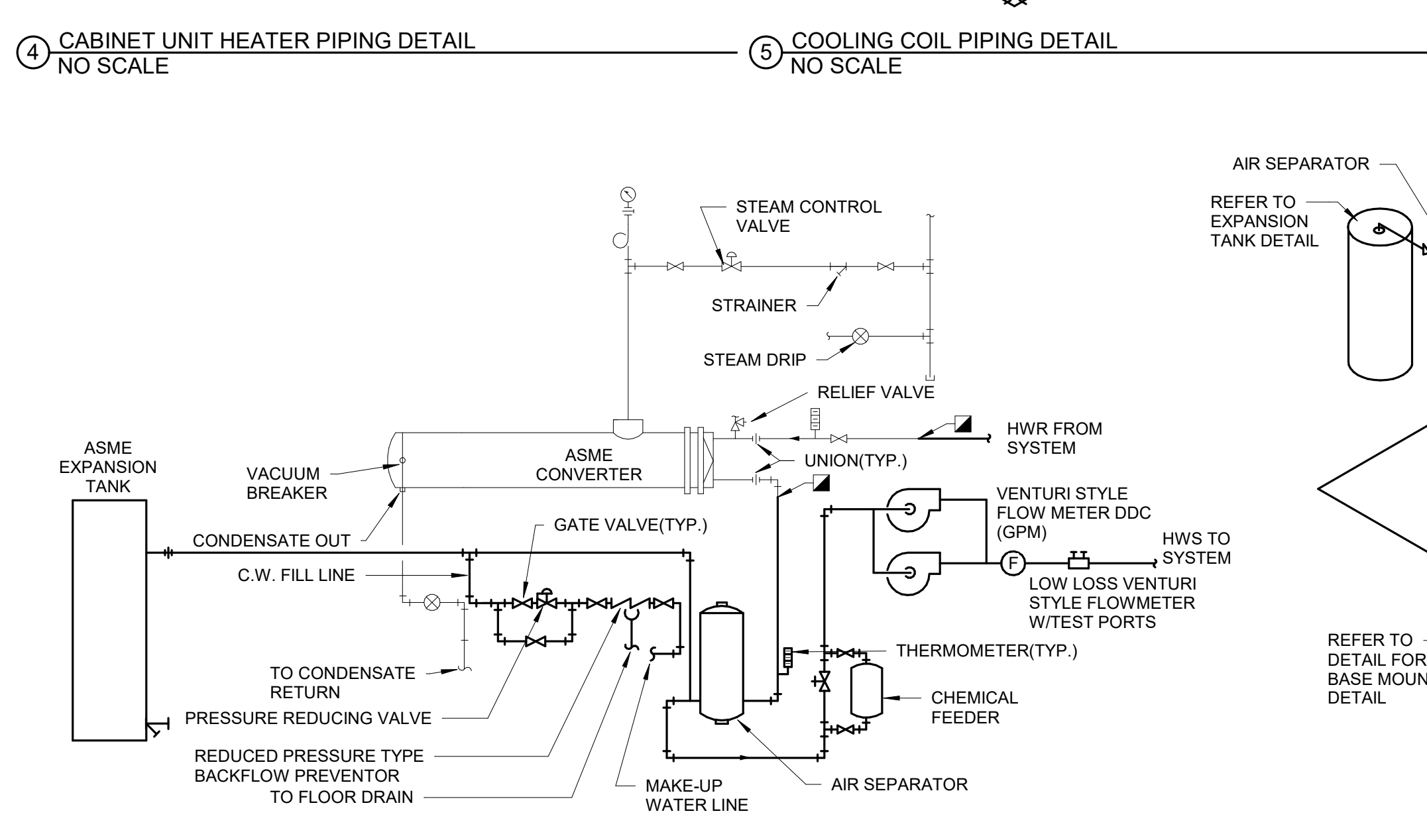
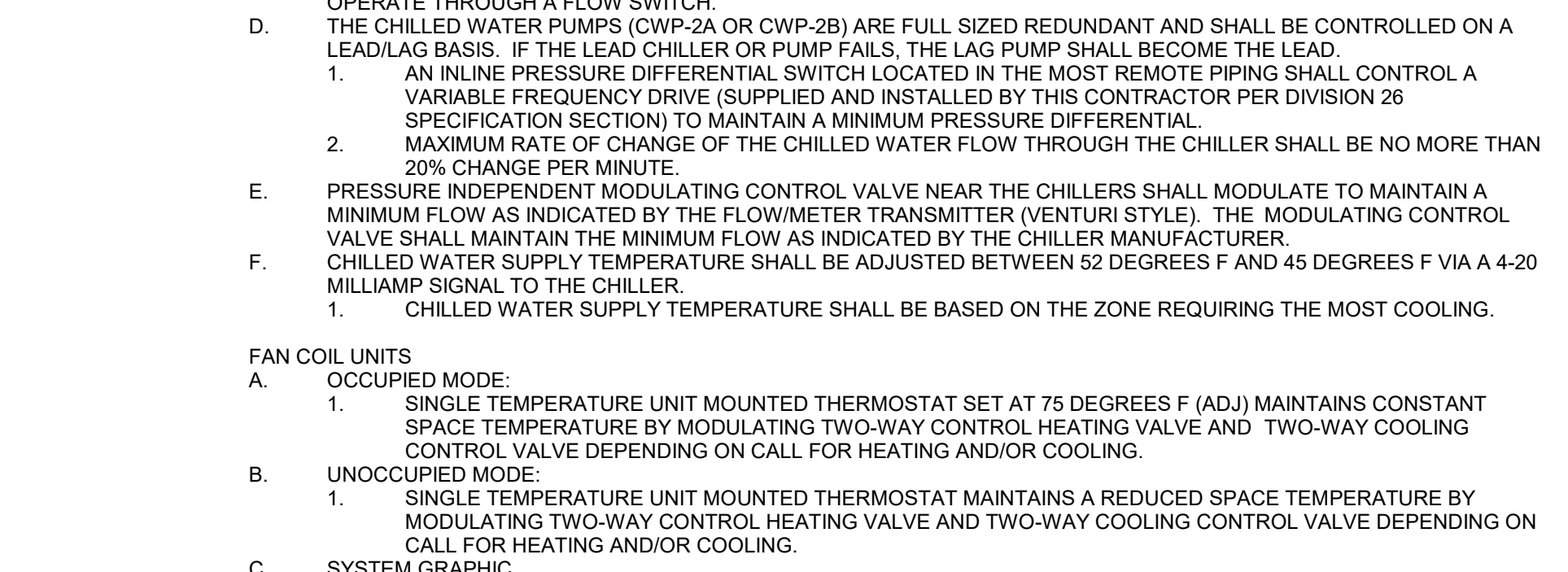
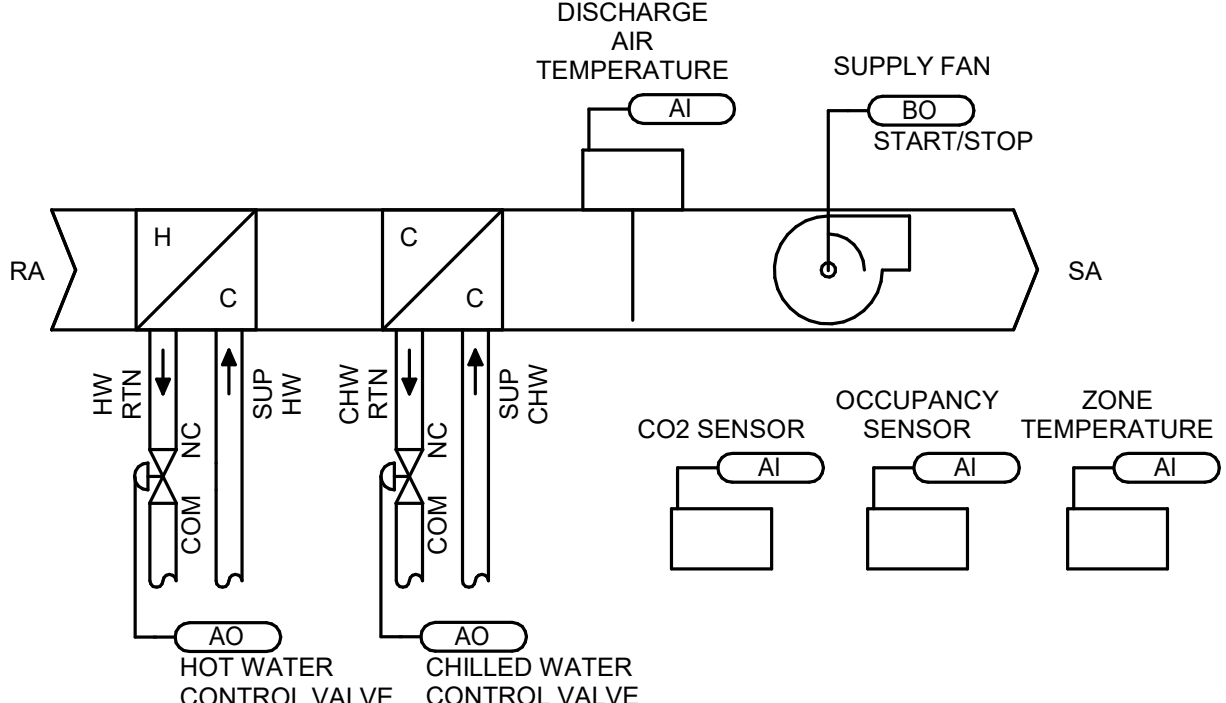
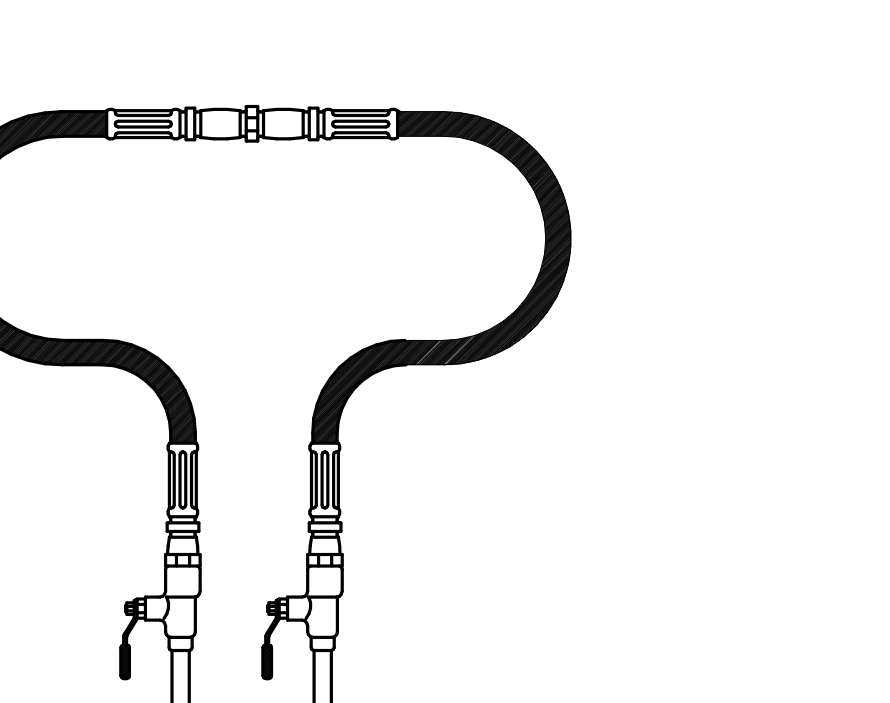
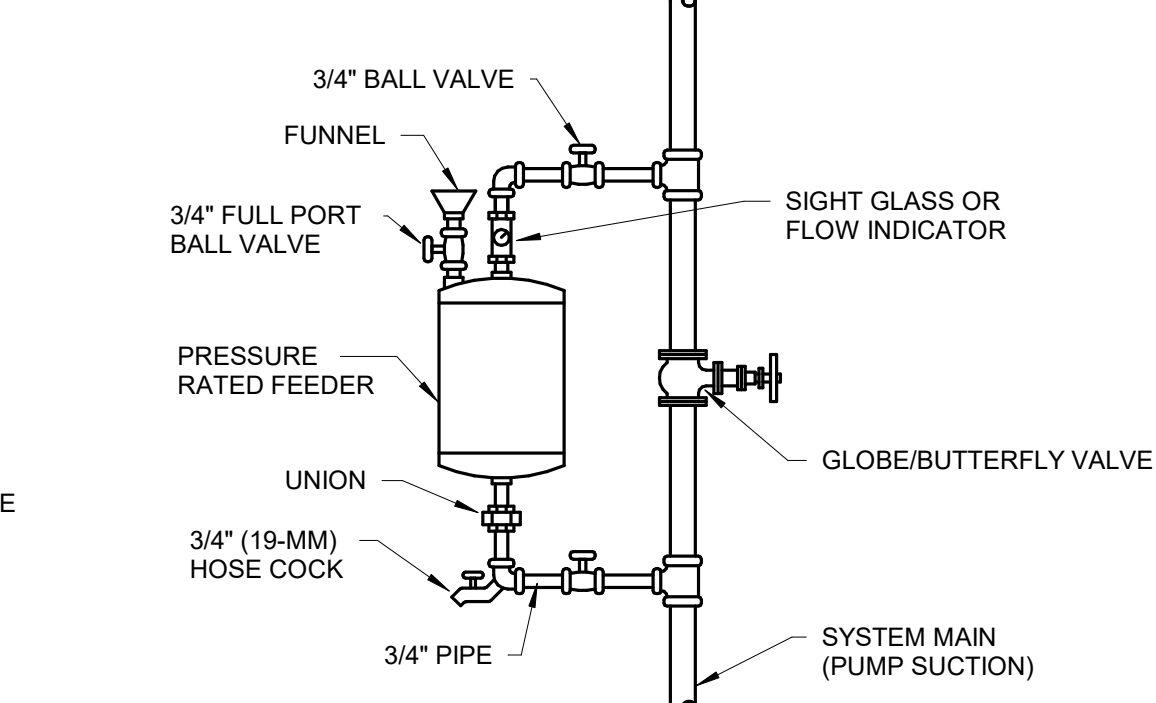
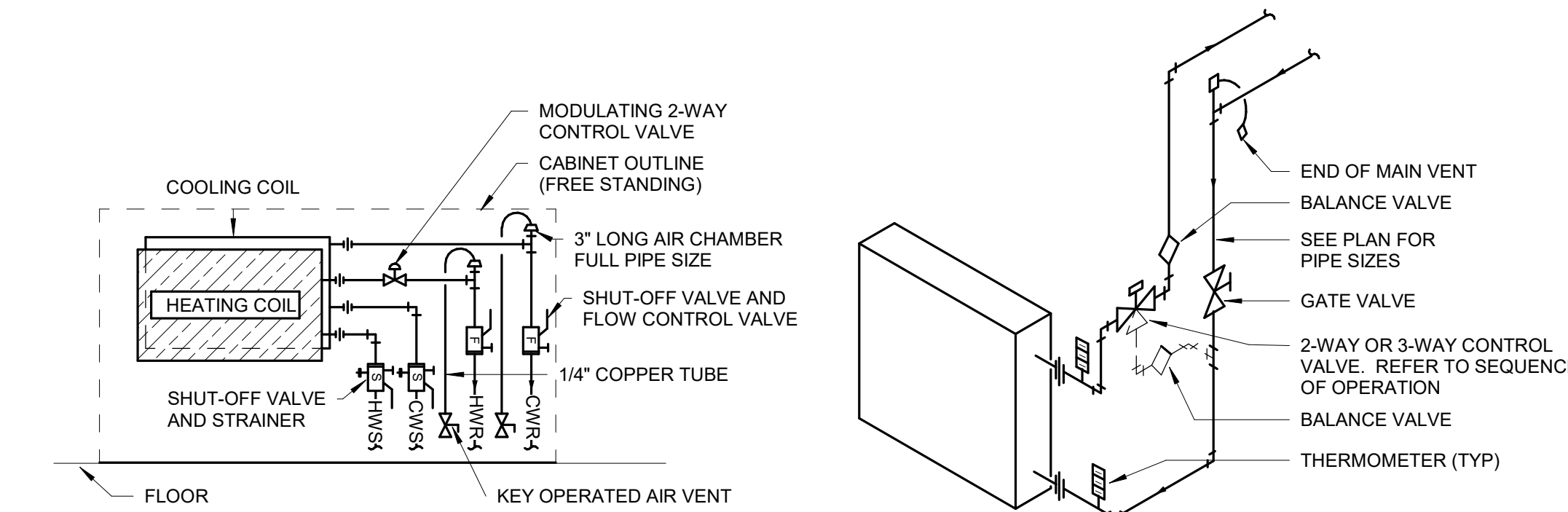
Phase 100% CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED

Project Title DOM RENOVATION FOR SEMIPRIVATE ROOMS
Location HOT SPRINGS, SOUTH DAKOTA
Issue Date 06/03/2025
Checked DLD
Drawn TAJ

Project Number VA #568A4-21-208 SGA #BR21039
Building Number 8
Drawing Number MH-102



- ENERGY RECOVERY VENTILATORS HX-1, HX-2, AND HX-3:
THESE ENERGY RECOVERY VENTILATORS SHALL BE INTERLOCKED TO OPERATE WHEN THEIR ASSOCIATED FAN COILS ARE SET TO THE OCCUPIED MODE. THE UNITS WILL BE PROVIDED WITH ECM MOTORS. THE SUPPLY AND EXHAUST FAN SPEEDS SHALL BE CONTROLLED BASED ON DUCT STATIC PRESSURE.
- A. IN THE OCCUPIED MODE THE MOTORIZED DAMPERS ASSOCIATED WITH EITHER SUPPLY AND RELIEF LOUVERS AND/OR GRAVITY VENTILATORS SHALL OPEN. THE DAMPERS SHALL CLOSE IN THE UNOCCUPIED MODE.
- B. THE REHEAT COIL SERVING THE ENERGY RECOVERY VENTILATORS SHALL MODULATE ITS 2-WAY CONTROL VALVE TO MAINTAIN A ROOM NEUTRAL DISCHARGE AIR TEMPERATURE (ADJ.). THIS VALVE SHALL BE CLOSED IN THE ECONOMIZER MODE.
- C. DISPLAY:
1. SYSTEM GRAPHIC.
2. SYSTEM DAY/NIGHT INDICATION.
3. SYSTEM FAN(S) ON/OFF INDICATION.
4. OUTSIDE AIR TEMPERATURE INDICATION.
5. EXHAUST AIR TEMPERATURE INDICATION.
6. PRIMARY AIR TEMPERATURE INDICATION.
7. RETURN AIR TEMPERATURE INDICATION.
8. SUPPLY STATIC PRESSURE INDICATION.
9. SUPPLY STATIC PRESSURE CONTROL POINT ADJUSTMENT.
10. BUILDING STATIC PRESSURE INDICATION.
11. BUILDING STATIC PRESSURE CONTROL POINT ADJUSTMENT.
12. SYSTEM ON/OFF AUTO SWITCH.
13. PRIMARY AIR FAN ON/OFF SWITCH.
14. EXHAUST AIR FAN ON/OFF/AUTO SWITCH.
- D. ALARMS:
1. EQUIPMENT FAULT (STATUS NOT EQUALING COMMAND)
2. HIGH TEMP.
3. LOW TEMP.
4. LOW EXHAUST STATIC PRESSURE
5. HIGH PRIMARY STATIC PRESSURE
6. SMOKE PROTECTION
- CENTRAL REFRIGERATION SYSTEMS
A. CENTRAL REFRIGERATION SYSTEM SHALL BE ACTIVATED WHEN FAN COILS CANNOT MAINTAIN SPACE TEMPERATURE. THE CHILLER SHALL BE LOCKED OUT OF STARTING WHEN THE TEMPERATURE IS BELOW 35 DEGREES F (ADJUSTABLE). CHILLERS SHALL BE DIS-ENABLED TO PUMPS (CWP-2A OR CWP-2B) BEING DIS-ENABLED.
- B. THE CHILLED WATER PUMPS (CH-2A AND CH-2B) SHALL BE CONTROLLED BY A TIME CLOCK IN THE ENERGY MANAGEMENT SYSTEM. THE EMS SHALL ACTIVATE THE CHILLED WATER PUMPS WHICH WILL ALLOW THE CHILLER TO OPERATE THROUGH A FLOW SWITCH.
- C. THE CHILLED WATER PUMPS (CWP-2A OR CWP-2B) ARE FULL SIZED REDUNDANT AND SHALL BE CONTROLLED ON A LEAD/LAG BASIS. IF THE LEAD CHILLER OR PUMP FAILS, THE LAG PUMP SHALL BECOME THE LEAD.
- D. 1. AN INLINE PRESSURE SWITCH LOCATED IN THE MOST REMOTE PIPING SHALL CONTROL A VARIABLE FREQUENCY DRIVE (SUPPLIED AND INSTALLED BY THIS CONTRACTOR PER DIVISION 26 SPECIFICATION SECTION) TO MAINTAIN A MINIMUM PRESSURE DIFFERENTIAL.
2. MAXIMUM RATE OF CHANGE OF THE CHILLED WATER FLOW THROUGH THE CHILLER SHALL BE NO MORE THAN 20% CHANGE PER MINUTE.
- E. PRESSURE INDEPENDENT MODULATING CONTROL VALVE NEAR THE CHILLERS SHALL MODULATE TO MAINTAIN A MINIMUM FLOW AS INDICATED BY THE FLOWMETER TRANSMITTER (VENTURI STYLE). THE MODULATING CONTROL VALVE SHALL MAINTAIN THE MINIMUM FLOW AS INDICATED BY THE CHILLER MANUFACTURER.
- F. CHILLED WATER SUPPLY TEMPERATURE SHALL BE ADJUSTED BETWEEN 52 DEGREES F AND 45 DEGREES F VIA A 4-20 MILLIAMP SIGNAL TO THE CHILLER.
1. CHILLED WATER SUPPLY TEMPERATURE SHALL BE BASED ON THE ZONE REQUIRING THE MOST COOLING.
- FAN COIL UNITS
A. OCCUPIED MODE:
1. SINGLE TEMPERATURE UNIT MOUNTED THERMOSTAT SET AT 75 DEGREES F (ADJ.) MAINTAINS CONSTANT SPACE TEMPERATURE BY MODULATING TWO-WAY CONTROL HEATING VALVE AND TWO-WAY COOLING CONTROL VALVE DEPENDING ON CALL FOR HEATING AND/OR COOLING.
- B. UNOCCUPIED MODE:
1. SINGLE TEMPERATURE UNIT MOUNTED THERMOSTAT MAINTAINS A REDUCED SPACE TEMPERATURE BY MODULATING TWO-WAY CONTROL HEATING VALVE AND TWO-WAY COOLING CONTROL VALVE DEPENDING ON CALL FOR HEATING AND/OR COOLING.
- C. SYSTEM GRAPHIC:
1. SYSTEM ON/OFF INDICATION.
2. SYSTEM DAY/NIGHT MODE.
3. SYSTEM FAN ON/OFF INDICATION.
4. DISCHARGE AIR TEMPERATURE INDICATION.
5. ZONE AIR TEMPERATURE INDICATION.
6. ZONE DISCHARGE TEMPERATURE CONTROL POINT ADJUSTMENT.
7. ZONE CONTROL POINT ADJUSTMENT.
8. ZONE ON/OFF AUTO SWITCH.
9. ZONE DAY/NIGHT/AUTO SWITCH.
10. ZONE HEATING VALVE POSITION.
11. ZONE COOLING VALVE POSITION.
- D. ALARMS:
1. EQUIPMENT FAULT (STATUS NOT EQUALING COMMAND)
2. HIGH TEMP (10 DEGREES ADJ ABOVE CONTROLLING SETPOINT)
3. LOW TEMP (10 DEGREES ADJ BELOW CONTROLLING SETPOINT)



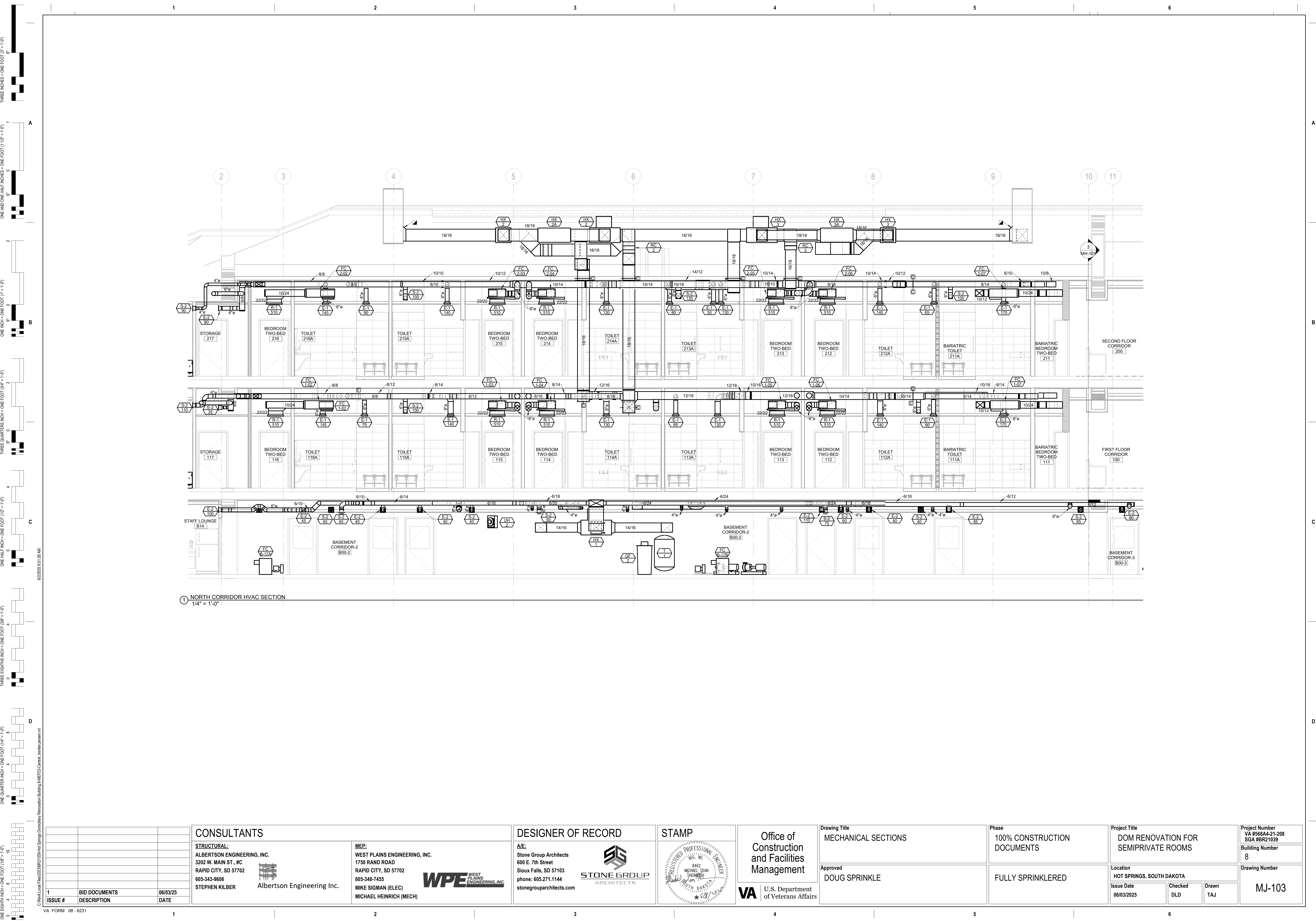
CONSULTANTS			DESIGNER OF RECORD			STAMP			Office of Construction and Facilities Management			Phase			Project Title			Project Number		
STRUCTURAL: ALBERTSON ENGINEERING, INC. 3202 W. MAIN ST., #C RAPID CITY, SD 57702 605-343-9606 STEPHEN KILBER			MEP: WEST PLAINS ENGINEERING, INC. 1750 RAND ROAD RAPID CITY, SD 57702 605-348-7455 MIKE SIGMAN (ELEC) MICHAEL HEINRICH (MECH)			Stone Group Architects 462 MICHAEL SEAN HEINRICH SOUTH DAKOTA ARCHITECTS			U.S. Department of Veterans Affairs			100% CONSTRUCTION DOCUMENTS			DOM RENOVATION FOR SEMIPRIVATE ROOMS			VA #56844-21-208 SGA #BR21039		
1 BID DOCUMENTS 06/03/25			2			3			4			5			6			8		
ISSUE # DESCRIPTION DATE			Albertson Engineering Inc.			STONE GROUP ARCHITECTS			DOUG SPRINKLE			FULLY SPRINKLERED			Location HOT SPRINGS, SOUTH DAKOTA			Drawing Number MJ-101		
Issue # Description Date			Checked MSH			Drawn TAJ			Issue Date 06/03/2025			Issue Date 06/03/2025			Issue Date 06/03/2025			Issue Date 06/03/2025		

AIR COOLED CHILLER SCHEDULE

UNIT TYPE	UNIT NUMBER	MANUFACTURE	MODEL	SERVES	COOLING BTUH	AMBIENT TEMPERATURE	GPM	EWT	LWT	WATER P D	REFRIGERANT TYPE	% GLYCOL	NUMBER OF CIRCUITS	COMPRESSOR TYPE	VOLTAGE	PHASES	MCA	COMMENTS
CH	1	DAIKIN	AG2004F	CHILLED WATER	307800	95 °F	46	55 °F	40 °F	7.86 RH2O	R-410A	30	2	DIGITAL SCROLL	208	3	159 A	1,2,3,4,5,6,7,8,9,10
COMMENTS:																		
1 BASED ON 40% PROPYLENE GLYCOL.																		
2 PROVIDE DISCONNECT SWITCH.																		
3 PROVIDE CONTROL PANEL WITH INTERFACE TO BAS.																		
4 PROVIDE FLOW SWITCH(ES).																		
5 PROVIDE 5-YEAR PARTS ONLY WARRANTY.																		
6 PROVIDE HEAT TRACE ON TUBE BUNDLE WITH SEPARATE 120V/1PH POWER CONNECTION.																		
7 COMPRESSORS SHALL BE RECIPROCATING TYPE, SCROLL TYPE, OR SCREW TYPE.																		
8 PROVIDE SOUND CONTROL AROUND COMPRESSORS.																		
9 PROVIDE LOW AMBIENT COOLING DOWN TO 10 DEG. F.																		
10 COMPRESSORS SHALL BE RECIPROCATING TYPE, SCROLL TYPE, OR SCREW TYPE.																		

FAN COIL UNIT SCHEDULE

		ELECTRIC										COOLING COIL										HEATING COIL										
UNIT TYPE	UNIT NUMBER	MANUFACTURER	MODEL	CFM	VOLTAGE	PHASES	MCA	BTUH	GPM	WPD	EAT DB	EAT WB	LAT DB	LAT WB	EWT	LWT	ROWS	% GLYCOL	BTUH	GPM	WPD	EAT	LAT	EWT	LWT	ROWS	% GLYCOL	COMMENTS				
FC	1-02	PRICE	FCHG-40	510	120	1	6.6 A	11200	4.97	2.88 RH2O	78 °F	62 °F	55.0 °F	50.5 °F	48 °F	52.8 °F	6	30%	15600	1.8	0.15 RH2O	68 °F	100.0 °F	140 °F	121.3 °F	2	30%	1,2,3,4,5,6,7				
FC	1-03	PRICE	FCHG-40	510	120	1	6.6 A	11200	4.97	2.88 RH2O	78 °F	62 °F	55.0 °F	50.5 °F	48 °F	52.8 °F	6	30%	15600	1.8	0.15 RH2O	68 °F	100.0 °F	140 °F	121.3 °F	2	30%	1,2,3,4,5,6,7				
FC	1-04	PRICE	FCHG-40	510	120	1	6.6 A	11200	4.97	2.88 RH2O	78 °F	62 °F	55.0 °F	50.5 °F	48 °F	52.8 °F	6	30%	15600	1.8	0.15 RH2O	68 °F	100.0 °F	140 °F	121.3 °F	2	30%	1,2,3,4,5,6,7				
FC	1-05	PRICE	FCHG-40	510	120	1	6.6 A	11200	4.97	2.88 RH2O	78 °F	62 °F	55.0 °F	50.5 °F	48 °F	52.8 °F	6	30%	15600	1.8	0.15 RH2O	68 °F	100.0 °F	140 °F	121.3 °F	2	30%	1,2,3,4,5,6,7				
FC	1-06	PRICE	FCHG-40	510	120	1	6.6 A	11200	4.97	2.88 RH2O	78 °F	62 °F	55.0 °F	50.5 °F	48 °F	52.8 °F	6	30%	15600	1.8	0.15 RH2O	68 °F	100.0 °F	140 °F	121.3 °F	2	30%	1,2,3,4,5,6,7				
FC	1-07	PRICE	FCHG-40	510	120	1	6.6 A	11200	4.97	2.88 RH2O	78 °F	62 °F	55.0 °F	50.5 °F	48 °F	52.8 °F	6	30%	15600	1.8	0.15 RH2O	68 °F	100.0 °F	140 °F	121.3 °F	2	30%	1,2,3,4,5,6,7				
FC	1-08	DAIKIN	FCV5104	250	120	1	4.4 A	5720	2	2.97 RH2O	78 °F	62 °F	54.1 °F	53.9 °F	48 °F	53.8 °F	4	30%	9596	1	1.12 RH2O	68 °F	108.0 °F	140 °F	119.8 °F	2	30%	1,2,3,4,5,7				
FC	1-09	DAIKIN	FCV5104	300	120	1	4.4 A	6736	2.4	3.5 RH2O	78 °F	62 °F	54.6 °F	54.4 °F	48 °F	53.8 °F	4	30%	10382	1	1.13 RH2O	68 °F	104.0 °F	140 °F	118.2 °F	2	30%	1,2,3,4,5,7				
FC	1-10A	DAIKIN	FCV5104	300	120	1	4.4 A	6736	2.4	3.5 RH2O	78 °F	62 °F	54.6 °F	54.4 °F	48 °F	53.8 °F	4	30%	10382	1	1.13 RH2O	68 °F	104.0 °F	140 °F	118.2 °F	2	30%	1,2,3,4,5,7				
FC	1-10B	DAIKIN	FCV5104	300	120	1	4.4 A	6736	2.4	3.5 RH2O	78 °F	62 °F	54.6 °F	54.4 °F	48 °F	53.8 °F	4	30%	10382	1	1.13 RH2O	68 °F	104.0 °F	140 °F	118.2 °F	2	30%	1,2,3,4,5,7				
FC	1-10C	DAIKIN	FCV5104	300	120	1	4.4 A	6736	2.4	3.5 RH2O	78 °F	62 °F	54.6 °F	54.4 °F	48 °F	53.8 °F	4	30%	10382	1	1.13 RH2O	68 °F	104.0 °F	140 °F	118.2 °F	2	30%	1,2,3,4,5,7				
FC	1-11	DAIKIN	FCV5108	650	120	1	8.8 A	9708	5.2	8.93 RH2O	78 °F	62 °F	56.0 °F	54.2 °F	48 °F	52.1 °F	4	30%	16609	1.5	3.19 RH2O	68 °F	106.4 °F	140 °F	116.7 °F	2	30%	1,2,3,4,5,7				
FC	2-01	DAIKIN	FCV5108	450	120	1	8.8 A	9708	5.2	8.93 RH2O	78 °F	62 °F	56.0 °F	54.2 °F	48 °F	52.1 °F	4	30%	16609	1.5	3.19 RH2O	68 °F	106.4 °F	140 °F	116.7 °F	2	30%	1,2,3,4,5,7				
FC	2-02	PRICE	FCHG-40	510	120	1	6.6 A	11200	4.97	2.88 RH2O	78 °F	62 °F	55.0 °F	50.5 °F	48 °F	52.8 °F	6	30%	15600	1.8	0.15 RH2O	68 °F	100.0 °F	140 °F	121.3 °F	2	30%	1,2,3,4,5,6,7				
FC	2-03	PRICE	FCHG-40	510	120	1	6.6 A	11200	4.97	2.88 RH2O	78 °F	62 °F	55.0 °F	50.5 °F	48 °F	52.8 °F	6	30%	15600	1.8	0.15 RH2O	68 °F	100.0 °F	140 °F	121.3 °F	2	30%	1,2,3,4,5,6,7				
FC	2-04	PRICE	FCHG-40	510	120	1	6.6 A	11200	4.97	2.88 RH2O	78 °F	62 °F	55.0 °F	50.5 °F	48 °F	52.8 °F	6	30%	15600	1.8	0.15 RH2O	68 °F	100.0 °F	140 °F	121.3 °F	2	30%	1,2,3,4,5,6,7				
FC	2-05	PRICE	FCHG-40	510	120	1	6.6 A	11200	4.97	2.88 RH2O	78 °F	62 °F	55.0 °F	50.5 °F	48 °F	52.8 °F	6	30%	15600	1.8	0.15 RH2O	68 °F	100.0 °F	140 °F	121.3 °F	2	30%	1,2,3,4,5,6,7				
FC	2-06	PRICE	FCHG-40	510	120	1	6.6 A	11200	4.97	2.88 RH2O	78 °F	62 °F	55.0 °F	50.5 °F	48 °F	52.8 °F	6	30%	15600	1.8	0.15 RH2O	68 °F	100.0 °F	140 °F	121.3 °F	2	30%	1,2,3,4,5,6,7				
FC	2-07	PRICE	FCHG-40	510	120	1	6.6 A	11200	4.97	2.88 RH2O	78 °F	62 °F	55.0 °F	50.5 °F	48 °F	52.8 °F	6	30%	15600	1.8	0.15 RH2O	68 °F	100.0 °F	140 °F	121.3 °F	2	30%	1,2,3,4,5,6,7				
FC	2-08	DAIKIN	FCV5104	250	120	1	4.4 A	5720	2	2.97 RH2O	78 °F	62 °F	54.1 °F	53.9 °F	48 °F	53.8 °F	4	30%	9596	1	1.12 RH2O	68 °F	108.0 °F	140 °F	119.8 °F	2	30%	1,2,3,4,5,7				
FC	2-09	DAIKIN	FCV5104	300	120	1	4.4 A	6736	2.4	3.5 RH2O	78 °F	62 °F	54.6 °F	54.4 °F	48 °F	53.8 °F	4	30%	10382	1	1.13 RH2O	68 °F	104.0 °F	140 °F	118.2 °F	2	30%	1,2,3,4,5,7				
FC	2-10A	DAIKIN	FCV5104	350	120	1	4.4 A	6736	2.4	3.5 RH2O	78 °F	62 °F	54.6 °F	54.4 °F	48 °F	53.8 °F	4	30%	10382	1	1.13 RH2O	68 °F	104.0 °F	140 °F	118.2 °F	2	30%	1,2,3,4,5,7				
FC	2-10B	DAIKIN	FCV5104	350	120	1	4.4 A	6736	2.4	3.5 RH2O	78 °F	62 °F	54.6 °F	54.4 °F	48 °F	53.8 °F	4	30%	10382	1	1.13 RH2O	68 °F	104.0 °F	140 °F	118.2 °F	2	30%	1,2,3,4,5,7				
FC	2-10C	DAIKIN	FCV5104	350	120	1	4.4 A	6736	2.4	3.5 RH2O	78 °F	62 °F	54.6 °F	54.4 °F	48 °F	53.8 °F	4	30%	10382	1	1.13 RH2O	68 °F	104.0 °F	140 °F	118.2 °F	2	30%	1,2,3,4,5,7				
FC	2-11A	DAIKIN	FCV5104	300	120	1	4.4 A	6736	2.4	3.5 RH2O	78 °F	62 °F	54.6 °F	54.4 °F	48 °F	53.8 °F	4	30%	10382	1	1.13 RH2O	68 °F	104.0 °F	140 °F	118.2 °F	2	30%	1,2,3,4,5,7				
FC	2-11B	DAIKIN	FCV5104	300	120	1	4.4 A	6736	2.4	3.5 RH2O	78 °F	62 °F	54.6 °F	54.4 °F	48 °F	53.8 °F	4	30%	10382	1	1.13 RH2O	68 °F	104.0 °F	140 °F	118.2 °F	2	30%	1,2,3,4,5,7				
FC	B-01	DAIKIN	FCV5108	450	120	1	8.8 A	9708	5.2	8.93 RH2O	78 °F	62 °F	56.0 °F	54.2 °F	48 °F	52.1 °F	4	30%	16609	1.5	3.19 RH2O	68 °F	106.4 °F	140 °F	116.7 °F	2	30%	1,2,3,4,5,7				
FC	B-02	DAIKIN	FCV5102	150	120	1	4.4 A	3656	1.6	1.75 RH2O	78 °F	62 °F	53.8 °F	53.1 °F	48 °F	52.9 °F	4	30%	5820	1	0.83 RH2O	68 °F	108.4 °F	140 °F	127.8 °F	2	30%	1,2,3,4,5,7				
FC	B-03	DAIKIN	FCV5108	450	120	1	8.8 A	9708	5.2	8.93 RH2O	78 °F	62 °F	56.0 °F	54.2 °F	48 °F	52.1 °F	4	30%	16609	1.5	3.19 RH2O	68 °F	106.4 °F	140 °F	116.7 °F	2	30%	1,2,3,4,5,7				
FC	B-04	DAIKIN	FCV5102	150	120	1	4.4 A	3656	1.6	1.75 RH2O	78 °F	62 °F	53.8 °F	53.1 °F	48 °F	52.9 °F	4	30%	5820	1	0.83 RH2O	68 °F	108.4 °F	140 °F	127.8 °F	2	30%	1,2,3,4,5,7				
FC	B-05	DAIKIN	FCV5102	150	120	1	4.4 A	3656	1.6	1.75 RH2O	78 °F	62 °F	53.8 °F	53.1 °F	48 °F	52.9 °F	4	30%	5820	1	0.83 RH2O	68 °F	108.4 °F	140 °F	127.8 °F	2	30%	1,2,3,4,5,7				
FC	B-06	DAIKIN	FCV5102	150	120	1	4.4 A	3656	1.6	1.75 RH2O	78 °F	62 °F	53.8 °F	53.1 °F	48 °F	52.9 °F	4	30%	5820	1	0.83 RH2O	68 °F	108.4 °F	140 °F	127.8 °F	2	30%	1,2,3,4,5,7				
FC	B-07	DAIKIN	FCV5103	200	120	1	4.4 A	4469	2.4	3.08 RH2O	78 °F	62 °F	55.7 °F	53.9 °F	48 °F	51.9 °F	4	30%	7643	1	0.97 RH2O	68 °F	107.8 °F	140 °F	123.9 °F	2	30%	1,2,3,4,5,7				
FC	B-08	DAIKIN	FCV5103	200	120	1	4.4 A	4469	2.4	3.08 RH2O	78 °F	62 °F	55.7 °F	53.9 °F	48 °F	51.9 °F	4	30%	7643	1	0.97 RH2O	68 °F	107.8 °F	140 °F	123.9 °F	2	30%	1,2,3,4,5,7				
FC	B-09	DAIKIN	FCV5103	200	120	1	4.4 A	4469	2.4	3.08 RH2O	78 °F	62 °F	55.7 °F	53.9 °F	48 °F	51.9 °F	4	30%	7643	1	0.97 RH2O	68 °F	107.8 °F	140 °F	123.9 °F	2	30%	1,2,3,4,5,7				
FC	B-10	DAIKIN	FCV5102	150	120	1	4.4 A	3656	1.6	1.75 RH2O	78 °F	62 °F	53.8 °F	53.1 °F	48 °F	52.9 °F	4	30%	5820	1	0.83 RH2O	68 °F	108.4 °F	140 °F	127.8 °F	2	30%	1,2,3,4,5,7				
FC	B-11	DAIKIN	FCV5102	150	120	1	4.4 A	3656	1.6	1.75 RH2O	78 °F	62 °F	53.8 °F	53.1 °F	48 °F	52.9 °F	4	30%	5820	1	0.83 RH2O	68 °F	108.4 °F	140 °F	127.8 °F	2	30%	1,2,3,4,5,7				
FC	B-12	DAIKIN	FCV5103	200	120	1	4.4 A	4469	2.4	3.08 RH2O	78 °F	62 °F	55.7 °F	53.9 °F	48 °F	51.9 °F	4	30%	7643	1	0.97 RH2O	68 °F	107.8 °F	140 °F	123.9 °F	2	30%	1,2,3,4,5,7				
FC	B-13	DAIKIN	FCV5102	150	120	1	4.4 A	3656	1.6	1.75 RH2O	78 °F	62 °F	53.8 °F	53.1 °F	48 °F	52.9 °F	4	30%	5820	1	0.83 RH2O	68 °F	108.4 °F	140 °F	127.8 °F	2	30%	1,2,3,4,5,7				
FC	B-14	DAIKIN	FCV5104	300	120	1	4.4 A	6736	2.4	3.5 RH2O	78 °F	62 °F	54.6 °F	54.4 °F	48 °F	53.8 °F	4	30%	10382	1	1.13 RH2O	68 °F	104.0 °F	140 °F	118.2 °F	2	30%	1,2,3,4,5,7				
FC	B-15	DAIKIN	FCV5103	200	120	1	4.4 A	4469	2.4	3.08 RH2O	78 °F	62 °F	55.7 °F	53.9 °F	48 °F	51.9 °F	4	30%	7643	1	0.97 RH2O	68 °F	107.8 °F	140 °F	123.9 °F	2	30%	1,2,3,4,5,7				
FC	B-16	DAIKIN	FCV5112	750	120	1	8.8 A	14766	7.8	12.79 RH2O	78 °F	62 °F	57.5 °F	52.8 °F	48 °F	52.1 °F	4	30%	18191	1	2.25 RH2O	68 °F	93.2 °F	104.0 °F	101.8 °F	2	30%	1,2,3,4,5,7				
FC	B-17A	DAIKIN	FCV5102	150	120	1	4.4 A	3656	1.6	1.75 RH2O	78 °F	62 °F	53.8 °F	53.1 °F	48 °F	52.9 °F	4	30%	5820	1	0.83 RH2O	68 °F	108.4 °F	140 °F	127.8 °F	2	30%	1,2,3,4,5,7				
FC	B-17B	DAIKIN	FCV5102	150	120	1	4.4 A	3656	1.6	1.75 RH2O	78 °F	62 °F	53.8 °F	53.1 °F	48 °F	52.9 °F	4	30%	5820	1	0.83 RH2O	68 °F	108.4 °F	140 °F	127.8 °F	2	30%	1,2,3,4,5,7				
FC	B-17C	DAIKIN	FCV5102	150	120	1	4.4 A	3656	1.6	1.75 RH2O	78 °F	62 °F	53.8 °F	53.1 °F	48 °F	52.9 °F	4	30%	5820	1	0.83 RH2O											



① NORTH CORRIDOR HVAC SECTION
1/4" = 1'-0"

CONSULTANTS

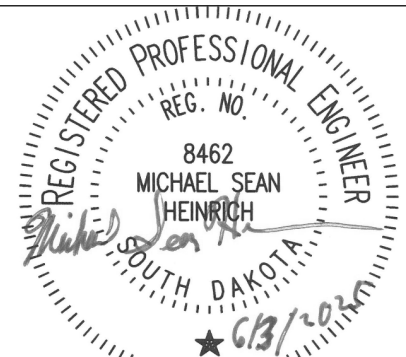
STRUCTURAL:
ALBERTSON ENGINEERING, INC.
3202 W. MAIN ST., #C
RAPID CITY, SD 57702
605-343-9606
STEPHEN KILBER
Albertson Engineering Inc.

MEP:
WEST PLAINS ENGINEERING, INC.
1750 RAND ROAD
RAPID CITY, SD 57702
605-348-7455
MIKE SIGMAN (ELEC)
MICHAEL HEINRICH (MECH)
WPE WEST PLAINS ENGINEERING, INC.

DESIGNER OF RECORD

A/E:
Stone Group Architects
600 E. 7th Street
Sioux Falls, SD 57103
phone: 605.271.1144
stonegrouparchitects.com

STAMP



Office of
Construction
and Facilities
Management

VA U.S. Department
of Veterans Affairs

Drawing Title
MECHANICAL SECTIONS

Approved
DOUG SPRINKLE

Phase
100% CONSTRUCTION
DOCUMENTS

FULLY SPRINKLERED

Project Title
DOM RENOVATION FOR
SEMPRIVATE ROOMS

Location
HOT SPRINGS, SOUTH DAKOTA

Issue Date
06/03/2025

Checked
DLD

Drawn
TAJ

Project Number
VA #568A4-21-208
SGA #BR21039
Building Number
8

Drawing Number
MJ-103

1 BASEMENT ELECTRICAL DEMOLITION PLAN
1/8" = 1'-0"

2 FIRST FLOOR ELECTRICAL DEMOLITION PLAN
1/8" = 1'-0"

- ELECTRICAL MISCELLANEOUS NOTES**
- A ALL FIXTURES, DEVICES AND EQUIPMENT SHOWN ON THIS PLAN ARE BASED ON OWNER'S EXISTING PLANS AND ON-SITE REVIEW OF THE FACILITY. QUANTITIES, TYPES, AND LOCATIONS OF ITEMS SHOWN ARE BELIEVED TO BE ACCURATE. HOWEVER, THESE DRAWINGS ARE NOT ALL INCLUSIVE AS THE AREAS BEING DEMOED AS PART OF THIS PROJECT WERE OCCUPIED AT THE TIME OF THE INVESTIGATION AND THERE MAYBE ITEMS THAT WERE HIDDEN BEHIND FURNITURE AND OTHER EQUIPMENT THAT COULD NOT BE SEEN. IT IS STILL THE INTENT THAT ALL ITEMS BE DEMOED WHETHER SHOWN ON THESE PLANS OR NOT. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL DEMOLITION WHETHER SHOWN ON THESE PLANS OR NOT. THE ELECTRICAL CONTRACTOR NEEDS TO CONDUCT THEIR OWN ON SITE REVIEW OF THE EXISTING CONDITIONS PRIOR TO BIDDING. THE ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL AND/OR RELOCATION OF ALL ITEMS TO ACCOMMODATE THE REMODEL PROJECT, UNLESS OTHERWISE NOTED ALL ELECTRICAL ITEMS WITHIN AREAS BEING DEMOED ARE TO BE REMOVED. THIS INCLUDES LIGHTING, RECEPTACLES, POWER, VOICE, DATA, INTERCOM, NURSE CALL, FIRE ALARM, ETC. THIS INCLUDES NOT ONLY THE DEVICES BUT ALSO THE CONDUIT, JUNCTION BOXES, CABLE, ETC. HOWEVER, MUCH CARE WILL NEED TO BE TAKEN TO ENSURE THAT ITEMS IN DIFFERENT AREAS REMAIN ACTIVE.
- B ALL LAMPS IN EXISTING FIXTURES BEING DEMOED SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH CURRENT REGULATIONS.
- C ALL ELECTRICAL ITEMS NOTED TO BE DEMOED ARE TO BE DISPOSED OF BY THE CONTRACTOR, IF THE OWNER DOES NOT WANT THEM, IN A MANNER THAT MEETS ALL REQUIRED CODES AND REGULATIONS.
- D THE EXISTING FIRE ALARM SYSTEM IS A JOHNSON CONTROLS METASYS SYSTEM. ALL EXISTING FIRE ALARM DEVICES AND ASSOCIATED CONDUIT, JUNCTION BOXES AND CABLE WILL BE REMOVED AND REPLACED WITH NEW IN BUILDING 8. THE CONTRACTOR WILL NEED TO MAINTAIN PORTIONS OF THE EXISTING SYSTEM IN THE OTHER BUILDINGS IN OPERATION DURING CONSTRUCTION. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE MODIFICATIONS AND NEW WIRING AS NECESSARY TO KEEP A FULLY FUNCTIONAL SYSTEM IN ALL AREAS TO REMAIN OCCUPIED BY THE OWNER WHILE THIS WORK IS GOING ON.
- E ELECTRICAL ITEMS IN LIGHT PEN ARE EXISTING AND SHALL REMAIN IN PLACE. ELECTRICAL ITEMS IN DARK OR DARK-DASHED PEN ARE TO BE DEMOLISHED OR TREATED AS SPECIFICALLY NOTED AS DESCRIBED ELSEWHERE IN THE CONSTRUCTION DOCUMENTS. WHERE ITEMS ARE TO BE REMOVED, ALL ASSOCIATED ACCESSIBLE CONDUIT, J-BOXES, WIRE, ETC. ASSOCIATED WITH THESE ITEMS SHALL BE REMOVED BACK TO THE NEXT ACTIVE DEVICE OR THE SOURCE WHICHEVER COMES FIRST. CONDUIT AND CONTROL SYSTEM THAT WILL NEED TO BE DEMOED. THE EXISTING CARD READER AND REQUEST TO EXIT (REX) DEVICE WILL BE REMOVED AND RELOCATED TO THE NEW TR 802.
- E013 THE EXISTING IT RACK WITHIN THIS ROOM WILL BE RELOCATED TO NEW TR 802. THE RACK CONSISTS HAS FIBER PATCH CASSETTES THAT ACCOMMODATE THE TERMINATION OF 48 SINGLE MODE FIBERS THAT SERVE THE RACK. A 24 PORT CAT 6A PATCH PANEL FOR SERVICE TO EXISTING WIRELESS ACCESS POINTS (WAPs) AND A 48 PORT CAT 6A PATCH PANEL FOR SERVICE TO EXISTING TELECOM DATA JACKS WITHIN BUILDING 8. THE RACK ALSO HAS A UPS AND 2 VERTICAL POWER DISTRIBUTION UNITS (PDUs) ALL OF WHICH WILL BE RELOCATED WITH THE RACK AND REUSED. THIS RACK IS CURRENTLY FED BY TWO SEPARATE FIBER CABLES, EACH CONSISTING OF 24 FIBERS THAT ORIGINATE FROM BUILDING 65. THESE FIBER CABLES WILL NEED TO BE REROUTED AS NOTED IN THE REMODEL PLANS.
- E014 THE EXISTING SECURITY CAMERA WITHIN THIS ROOM IS TO BE REMOVED AND REINSTALLED IN THE NEW TR 802.
- E015 THE EXISTING GROUND BAR IS TO BE REMOVED AND REINSTALLED IN THE NEW TR 802. THERE IS AN EXISTING #3/0 GROUNDING BOND CABLE FROM THE MAIN SWITCHBOARD IN BUILDING 2 THROUGH THE ARCADE TO THE THIS GROUND BAR. THE #3/0 CABLE WILL NEED TO BE REROUTED/EXTENDED TO THE NEW TR 802 FOR TERMINATION TO THE GROUND BAR.
- E016 THERE IS A 25 PAIR CABLE FOR ANALOG CONNECTIONS ROUTED TO THIS TERMINATION CABINET THROUGH THE ARCADE. THIS TERMINATION CABINET WILL BE RELOCATED TO TR 802 AND THE 25 PAIR CABLE PULLED BACK TO ARCADE AND NEW CONDUIT PROVIDED FROM THE ARCADE TO THE NEW CABINET.
- E017 THIS ROOM IS HAS EXISTING LADDER RACK WRAPPING AROUND THE EXTERIOR WALLS AND OVER THE RACK. THIS LADDER RACK IS TO BE DEMOED.
- E018 APPROXIMATE LOCATION OF EXISTING PULL BOXES FOR EXISTING FIBER SIDE A AND SIDE B 24 STRAND CABLES WITH APPROXIMATE ROUTING OF EXISTING CONDUITS TO EXISTING TR 107.
- E019 EXISTING PANEL A7-EQ-1 TO BE REPLACED WITH NEW PANEL AT SAME LOCATION. SEE NEW POWER ONE-LINE DIAGRAM AND NEW PANEL SCHEDULE FOR MORE DETAILS.

- ELECTRICAL SPECIFIC NOTES**
- E001 EXISTING SECURITY CAMERA TERMINATION RACK IS TO BE REMOVED. THE EXISTING CAMERAS THROUGHOUT BUILDING 8 WILL BE DEMOLISHED UNLESS NOTED OTHERWISE. NEW CAMERAS AND NEW CABLEING SHALL BE PROVIDED. THIS CABLEING SHALL BE TERMINATED AT NEW TR ROOMS.
- E002 EXISTING FIBER BOX WILL NEED TO BE REMOVED TO ACCOMMODATE REVISED BUILDING FLOOR PLAN. CONTRACTOR SHALL INTERCEPT EXISTING FIBER FEED OUT IN ARCADE LEVEL TO EXTEND TO NEW TR ROOM IN BASEMENT. NEW FIBER WILL BE INSTALLED TO NEW TR ROOMS BETWEEN FLOORS.
- E003 THIS EXISTING JOHNSON CONTROLS PANEL IS THE EXISTING PHYSICAL ACCESS CONTROL SYSTEM (PACS) PANEL. THIS PANEL WILL BE DEMOLISHED AND A NEW PACS PANEL INSTALLED IN NEW TR 802.
- E004 DISCONNECT POWER FROM EXISTING WATER MONITOR, MAG FLOW METER, AND METER CONTROL SO THAT THEY CAN BE REMOVED AND REPLACED.
- E005 EXISTING CAMERA IS TO REMAIN.
- E008 EXISTING CHILLER IS TO BE DEMOLISHED. DISCONNECT FROM CIRCUIT SO THAT MECHANICAL CONTRACTOR CAN REMOVE. EXISTING CIRCUIT CAN BE REUSED TO POWER THE NEW CHILLER TO BE INSTALLED UNDER THIS PROJECT.
- E009 EXISTING PANEL 8-EQ1-T1 IS TO BE REMOVED AND RELOCATED TO NEW TR 802. THE EXISTING PANEL IS FED FROM PANEL 2-EQDP-2 LOCATED IN ELECT ROOM B2 OF BUILDING 2 BY WAY OF A 1-1/4" CONDUIT WITH 4-#2 & 1-#8 GND CU. THE FEEDER IS ROUTED THROUGH THE ARCADE AND THEN TO THE PANEL. THIS FEEDER IS TO BE INTERCEPTED IN THE ARCADE AND THEN REROUTED/EXTENDED TO THE NEW LOCATION SHOWN ON THE RENOVATION PLANS.
- E010 EXISTING PANEL 8-N1-T1 IS TO BE REMOVED AND RELOCATED TO NEW TR 802. THE EXISTING PANEL IS FED FROM A DISCONNECT OFF OF A BUS DUCT RUNNING WITHIN THE ARCADE BY WAY OF A 1-1/4" CONDUIT WITH 4-#2 & 1-#8 GND CU. THE FEEDER IS ROUTED THROUGH THE ARCADE AND THEN TO THE PANEL. THIS FEEDER IS TO BE INTERCEPTED IN THE ARCADE AND THEN REROUTED/EXTENDED TO THE NEW LOCATION SHOWN ON THE RENOVATION PLANS.
- E011 THERE IS AN EXISTING CRAC UNIT THAT WILL NEED TO BE DEMOED AND TURNED OVER TO THE OWNER. THE CRAC CONSISTS OF THE INDOOR UNIT LOCATED WITHIN EXISTING TR 107 AND A CONDENSING UNIT MOUNTED ON THE GROUND AS SHOWN. THE INDOOR CRAC UNIT ALSO HAS A CONDENSATE PUMP THAT WILL ALSO BE DEMOED.
- E012 THE EXISTING CLOSET HAS A ACCESS CONTROL SYSTEM THAT WILL NEED TO BE DEMOED. THE EXISTING CARD READER AND REQUEST TO EXIT (REX) DEVICE WILL BE REMOVED AND RELOCATED TO THE NEW TR 802.
- E013 THE EXISTING IT RACK WITHIN THIS ROOM WILL BE RELOCATED TO NEW TR 802. THE RACK CONSISTS HAS FIBER PATCH CASSETTES THAT ACCOMMODATE THE TERMINATION OF 48 SINGLE MODE FIBERS THAT SERVE THE RACK. A 24 PORT CAT 6A PATCH PANEL FOR SERVICE TO EXISTING WIRELESS ACCESS POINTS (WAPs) AND A 48 PORT CAT 6A PATCH PANEL FOR SERVICE TO EXISTING TELECOM DATA JACKS WITHIN BUILDING 8. THE RACK ALSO HAS A UPS AND 2 VERTICAL POWER DISTRIBUTION UNITS (PDUs) ALL OF WHICH WILL BE RELOCATED WITH THE RACK AND REUSED. THIS RACK IS CURRENTLY FED BY TWO SEPARATE FIBER CABLES, EACH CONSISTING OF 24 FIBERS THAT ORIGINATE FROM BUILDING 65. THESE FIBER CABLES WILL NEED TO BE REROUTED AS NOTED IN THE REMODEL PLANS.
- E014 THE EXISTING SECURITY CAMERA WITHIN THIS ROOM IS TO BE REMOVED AND REINSTALLED IN THE NEW TR 802.
- E015 THE EXISTING GROUND BAR IS TO BE REMOVED AND REINSTALLED IN THE NEW TR 802. THERE IS AN EXISTING #3/0 GROUNDING BOND CABLE FROM THE MAIN SWITCHBOARD IN BUILDING 2 THROUGH THE ARCADE TO THE THIS GROUND BAR. THE #3/0 CABLE WILL NEED TO BE REROUTED/EXTENDED TO THE NEW TR 802 FOR TERMINATION TO THE GROUND BAR.
- E016 THERE IS A 25 PAIR CABLE FOR ANALOG CONNECTIONS ROUTED TO THIS TERMINATION CABINET THROUGH THE ARCADE. THIS TERMINATION CABINET WILL BE RELOCATED TO TR 802 AND THE 25 PAIR CABLE PULLED BACK TO ARCADE AND NEW CONDUIT PROVIDED FROM THE ARCADE TO THE NEW CABINET.
- E017 THIS ROOM IS HAS EXISTING LADDER RACK WRAPPING AROUND THE EXTERIOR WALLS AND OVER THE RACK. THIS LADDER RACK IS TO BE DEMOED.
- E018 APPROXIMATE LOCATION OF EXISTING PULL BOXES FOR EXISTING FIBER SIDE A AND SIDE B 24 STRAND CABLES WITH APPROXIMATE ROUTING OF EXISTING CONDUITS TO EXISTING TR 107.
- E019 EXISTING PANEL A7-EQ-1 TO BE REPLACED WITH NEW PANEL AT SAME LOCATION. SEE NEW POWER ONE-LINE DIAGRAM AND NEW PANEL SCHEDULE FOR MORE DETAILS.

1	BID DOCUMENTS	06/03/25
ISSUE #	DESCRIPTION	DATE
1	BID DOCUMENTS	06/03/25

CONSULTANTS

STRUCTURAL:
ALBERTSON ENGINEERING, INC.
3202 W. MAIN ST., #C
RAPID CITY, SD 57702
605-343-9606
STEPHEN KILBER

Albertson Engineering Inc.

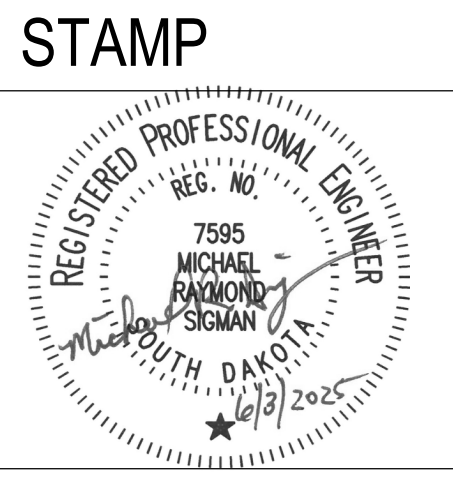
MEP:
WEST PLAINS ENGINEERING, INC.
1750 RAND ROAD
RAPID CITY, SD 57702
605-348-7455
MIKE SIGMAN (ELEC)
MICHAEL HEINRICH (MECH)

WPE WEST PLAINS ENGINEERING, INC.

DESIGNER OF RECORD

A/E:
Stone Group Architects
600 E. 7th Street
Sioux Falls, SD 57103
phone: 605.271.1144
stonegrouparchitects.com

STONE GROUP ARCHITECTS



Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
BASEMENT & FIRST FLOOR ELECTRICAL DEMOLITION PLANS

Approved
DOUG SPRINKLE

Phase
100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title
DOM RENOVATION FOR SEMIPRIVATE ROOMS

Location
HOT SPRINGS, SOUTH DAKOTA

Issue Date
06/03/2025

Checked
MRS

Drawn
VLS

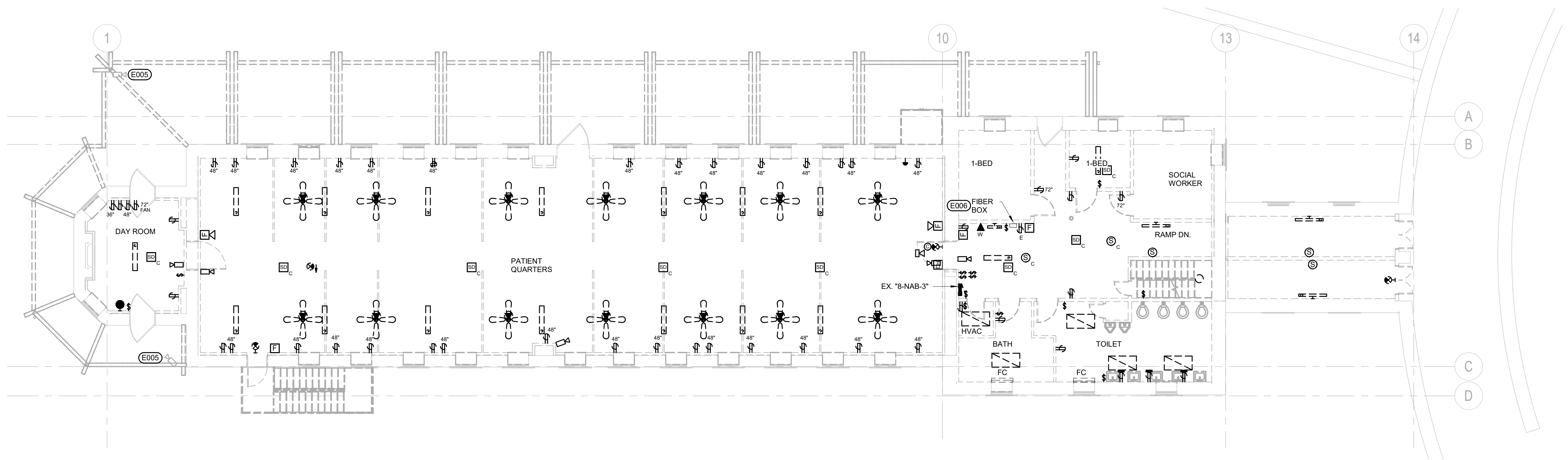
Project Number
VA #568A4-21-208
SGA #BR21039

Building Number
8

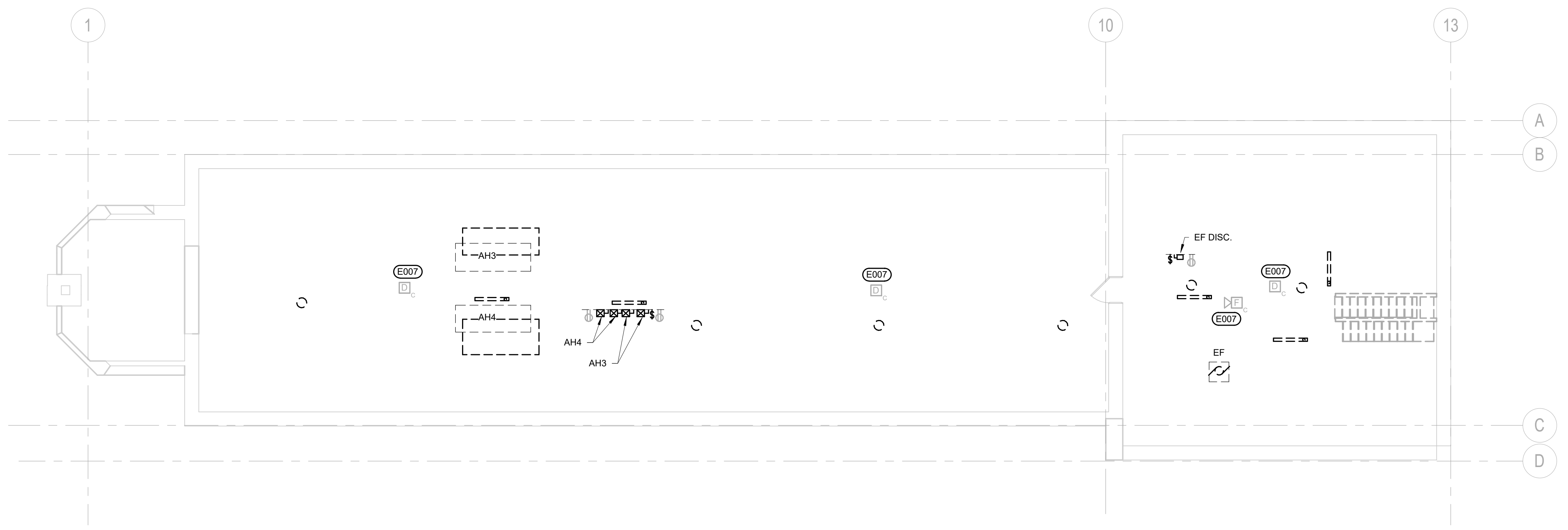
Drawing Number
ED-101

THREE INCHES = ONE FOOT (3" = 1'-0")
ONE AND ONE HALF INCHES = ONE FOOT (1 1/2" = 1'-0")
ONE INCH = ONE FOOT (1" = 1'-0")
THREE QUARTERS INCH = ONE FOOT (3/4" = 1'-0")
ONE HALF INCH = ONE FOOT (1/2" = 1'-0")
THREE EIGHTHS INCH = ONE FOOT (3/8" = 1'-0")
ONE QUARTER INCH = ONE FOOT (1/4" = 1'-0")
ONE EIGHTH INCH = ONE FOOT (1/8" = 1'-0")

C:\Real\Local\Files\2023\BPR\1035-Hot Springs Community Renovation Building 3-MEP25-Central_VLS.sshp\mns.rvt
6/22/2025 2:25:40 PM



1 SECOND FLOOR ELECTRICAL DEMOLITION PLAN
1/8" = 1'-0"



2 ATTIC ELECTRICAL DEMOLITION PLAN
1/8" = 1'-0"

- ELECTRICAL MISCELLANEOUS NOTES**
- A ALL FIXTURES, DEVICES AND EQUIPMENT SHOWN ON THIS PLAN ARE BASED ON OWNER'S EXISTING PLANS AND ON-SITE REVIEW OF THE FACILITY. QUANTITIES, TYPES, AND LOCATIONS OF ITEMS SHOWN ARE BELIEVED TO BE ACCURATE. HOWEVER, THESE DRAWINGS ARE NOT ALL INCLUSIVE AS THE AREAS BEING DEMOED AS PART OF THIS PROJECT WERE OCCUPIED AT THE TIME OF THE INVESTIGATION AND THERE MAYBE ITEMS THAT WERE HIDDEN BEHIND FURNITURE AND OTHER EQUIPMENT THAT COULD NOT BE SEEN. IT IS STILL THE INTENT THAT ALL ITEMS BE DEMOED WHETHER SHOWN ON THESE PLANS OR NOT. THE ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL AND/OR RELOCATION OF ALL ITEMS TO ACCOMMODATE THE REMODEL PROJECT. UNLESS OTHERWISE NOTED ALL ELECTRICAL ITEMS WITHIN AREAS BEING DEMOED ARE TO BE REMOVED. THIS INCLUDES LIGHTING, RECEPTACLES, POWER, VOICE, DATA, INTERCOM, NURSE CALL, FIRE ALARM, ETC. THIS INCLUDES NOT ONLY THE DEVICES BUT ALSO THE CONDUIT, JUNCTION BOXES, CABLE, ETC. HOWEVER, MUCH CARE WILL NEED TO BE TAKEN TO ENSURE THAT ITEMS IN DIFFERENT AREAS REMAIN ACTIVE.
- B ALL LAMPS IN EXISTING FIXTURES BEING DEMOED SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH CURRENT REGULATIONS.
- C ALL ELECTRICAL ITEMS NOTED TO BE DEMOED ARE TO BE DISPOSED OF BY THE CONTRACTOR, IF THE OWNER DOES NOT WANT THEM, IN A MANNER THAT MEETS ALL REQUIRED CODES AND REGULATIONS.
- D THE EXISTING FIRE ALARM SYSTEM IS A JOHNSON CONTROLS METASYS SYSTEM. ALL EXISTING FIRE ALARM DEVICES AND ASSOCIATED CONDUIT, JUNCTION BOXES AND CABLING WILL BE REMOVED AND REPLACED WITH NEW IN BUILDING 8. THE CONTRACTOR WILL NEED TO MAINTAIN PORTIONS OF THE EXISTING SYSTEM IN THE OTHER BUILDINGS IN OPERATION DURING CONSTRUCTION. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE MODIFICATIONS AND NEW WIRING AS NECESSARY TO KEEP A FULLY FUNCTIONAL SYSTEM IN ALL AREAS TO REMAIN OCCUPIED BY THE OWNER WHILE THIS WORK IS GOING ON.
- E ELECTRICAL ITEMS IN LIGHT PEN ARE EXISTING AND SHALL REMAIN IN PLACE. ELECTRICAL ITEMS IN DARK OR DARK/DASHED PEN ARE TO BE DEMOLISHED OR TREATED AS SPECIFICALLY NOTED AS DESCRIBED ELSEWHERE IN THE CONSTRUCTION DOCUMENTS. WHERE ITEMS ARE TO BE REMOVED, ALL ASSOCIATED ACCESSIBLE CONDUIT, J-BOXES, WIRE, ETC. ASSOCIATED WITH THESE ITEMS SHALL BE REMOVED BACK TO THE NEXT ACTIVE DEVICE OR THE SOURCE WHICHEVER COMES FIRST. CONDUIT AND JUNCTION BOXES WITHIN WALLS OR OTHER SURFACES TO REMAIN, SHALL HAVE COVER PLATES PROVIDED OVER ABANDONED JUNCTION BOXES. THIS CONTRACTOR IS TO MODIFY AND EXTEND EXISTING CONDUIT AND WIRE AS NECESSARY TO ENSURE ITEMS THAT ARE TO REMAIN THAT ARE DOWN STREAM OF DEVICES BEING REMOVED CONTINUE TO OPERATE.

- E ELECTRICAL SPECIFIC NOTES**
- E005 EXISTING CAMERA IS TO REMAIN.
- E006 EXISTING FIBER BOX WILL NEED TO BE REMOVED TO ACCOMMODATE REVISED BUILDING FLOOR PLAN. NEW FIBER WILL BE INSTALLED TO NEW TR ROOMS.
- E007 EXISTING FIRE ALARM DEVICES IN ATTIC ARE TO REMAIN IN PLACE. REVISE/PROVIDE NEW CABLING TO FIRE ALARM PANEL AS REQUIRED.

ISSUE #	DESCRIPTION	DATE
1	BID DOCUMENTS	06/03/25

CONSULTANTS

STRUCTURAL:
ALBERTSON ENGINEERING, INC.
3202 W. MAIN ST., #C
RAPID CITY, SD 57702
605-343-9606
STEPHEN KILBER

Albertson Engineering Inc.

MEP:
WEST PLAINS ENGINEERING, INC.
1750 RAND ROAD
RAPID CITY, SD 57702
605-348-7455
MIKE SIGMAN (ELEC)
MICHAEL HEINRICH (MECH)

WPE WEST PLAINS ENGINEERING, INC.

DESIGNER OF RECORD

A/E:
Stone Group Architects
600 E. 7th Street
Sioux Falls, SD 57103
phone: 605.271.1144
stonegrouparchitects.com

STONE GROUP ARCHITECTS

STAMP

REGISTERED PROFESSIONAL ENGINEER
REG. NO. 7595
MICHAEL HEINRICH
ELECTRICAL
SOUTH DAKOTA
6/23/2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
SECOND FLOOR & ATTIC ELECTRICAL DEMOLITION PLANS

Approved
DOUG SPRINKLE

Phase
100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title
DOM RENOVATION FOR SEMIPRIVATE ROOMS

Location
HOT SPRINGS, SOUTH DAKOTA

Issue Date
06/03/2025

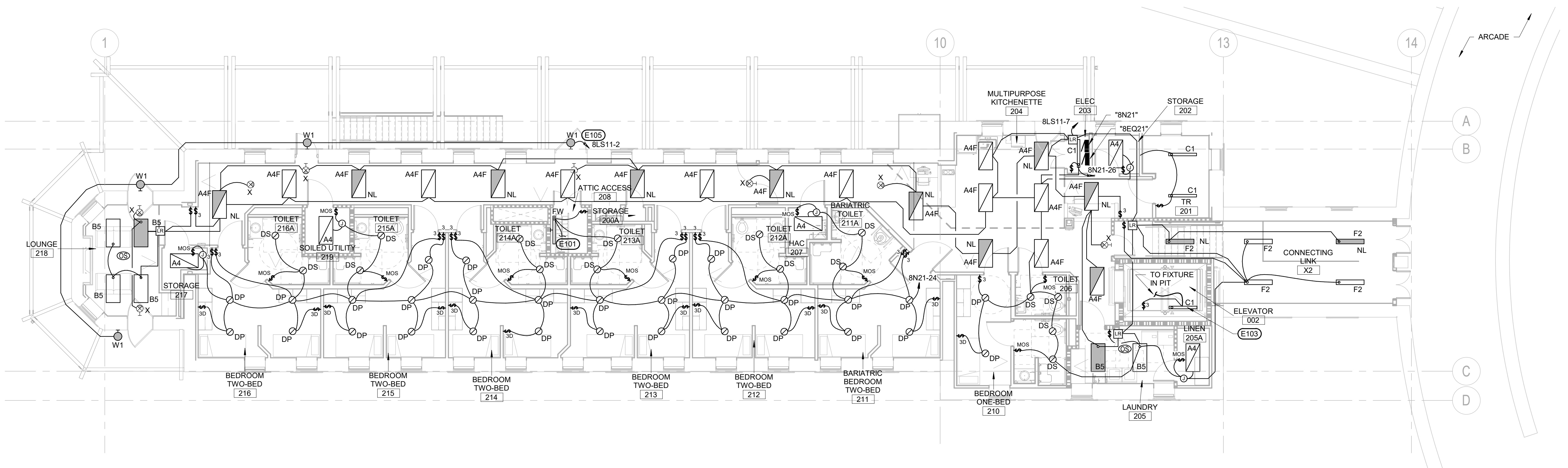
Checked
MRS

Drawn
VLS

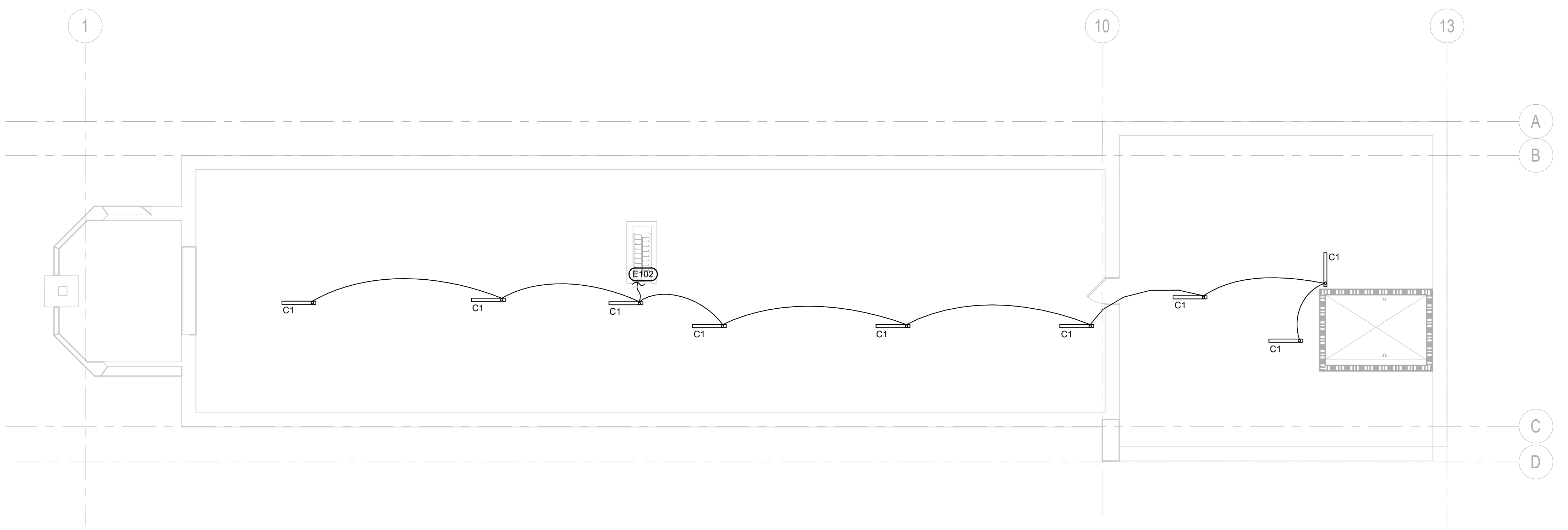
Project Number
VA #568A4-21-208
SGA #BR21039
Building Number
8

Drawing Number
ED-102

1
2
3
4
5
6
A
B
C
D
ONE EIGHT INCH = ONE FOOT (1/8" = 1'-0")
ONE QUARTER INCH = ONE FOOT (1/4" = 1'-0")
ONE HALF INCH = ONE FOOT (1/2" = 1'-0")
THREE EIGHTS INCH = ONE FOOT (3/8" = 1'-0")
THREE QUARTERS INCH = ONE FOOT (3/4" = 1'-0")
ONE INCH = ONE FOOT (1" = 1'-0")
ONE AND ONE HALF INCHES = ONE FOOT (1 1/2" = 1'-0")
THREE INCHES = ONE FOOT (3" = 1'-0")
6/22/2025 2:25:44 PM
C:\Real\Local\Files\2025\BPR\103\Hot Springs Semiprivate Rooms Renovation Building 3\MEP25\Central_VLS.spl\shp\msd.txt

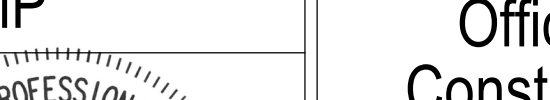


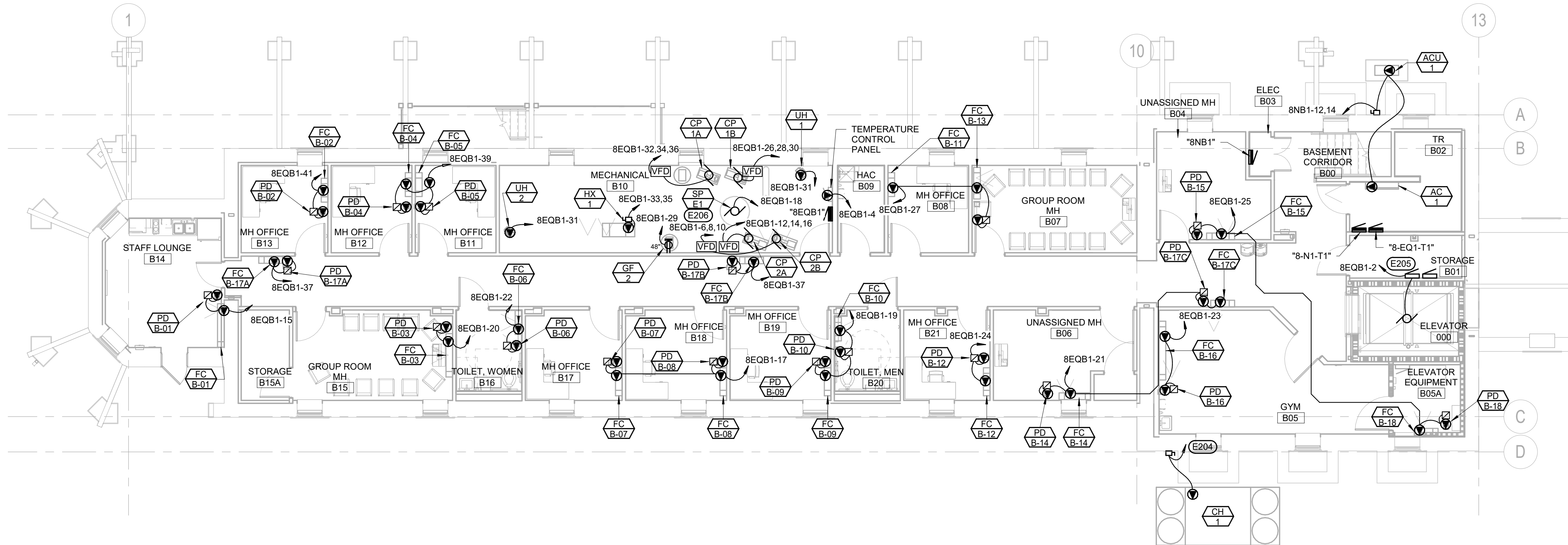
1 SECOND FLOOR LIGHTING PLAN
1/8" = 1'-0"



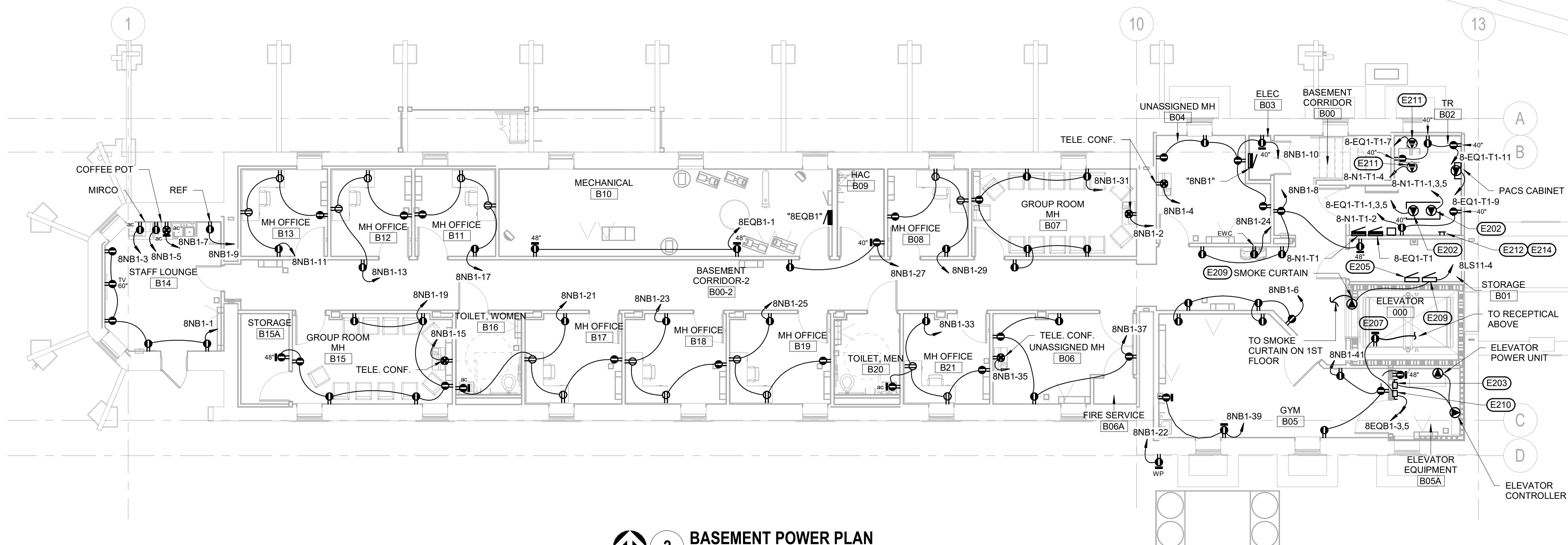
2 ATTIC LIGHTING PLAN
1/8" = 1'-0"

- ELECTRICAL MISCELLANEOUS NOTES**
- A THE LIGHT FIXTURES LABELED WITH A "NL" AND ALL EXIT LIGHTS SHALL BE CIRCUITED WITH AN UNSWITCHED HOT SO AS TO OPERATE 24/7.
 - B ALL FIXTURES OR WIRING DEVICES SHOWN TO BE INSTALLED WITHIN EXISTING SHEETROCK WALLS SHALL BE FISHED INTO THE WALL BY THE CONTRACTOR.
 - C LIGHT FIXTURES THAT ARE SHADED SHALL BE POWERED FROM BOTH A NORMAL LIGHTING CIRCUIT AND AN EMERGENCY LIGHTING CIRCUIT VIA A UL524 RELAY. THE RELAY SHALL ALLOW THE FIXTURE TO BE CONTROLLED WITH OTHER LIGHT FIXTURES IN THE SAME AREA WHILE BEING ABLE TO SWITCH OVER TO AN EMERGENCY / LIFE SAFETY BRANCH CIRCUIT TO PROVIDE EMERGENCY LIGHTING IN THE EVENT OF A POWER OUTAGE.
- ELECTRICAL SPECIFIC NOTES**
- E101 UP TO ATTIC LIGHTING.
 - E102 DOWN TO ATTIC STAIR WELL LIGHTING.
 - E103 INSTALL LIGHT FIXTURES IN ELEVATOR PIT AND AT TOP OF ELEVATOR SHAFT. LOCATE THREE WAY SWITCHES AT BASEMENT AND SECOND FLOOR LEVEL. COORDINATE LOCATIONS OF SWITCHES AND LIGHTS WITH ELEVATOR EQUIPMENT SUPPLIER.
 - E105 CIRCUIT TO BE ROUTED THROUGH LIGHTING CONTRACTOR.

			CONSULTANTS STRUCTURAL: ALBERTSON ENGINEERING, INC. 3202 W. MAIN ST., #C RAPID CITY, SD 57702 605-343-9606 STEPHEN KILBER  Albertson Engineering Inc. MEP: WEST PLAINS ENGINEERING, INC. 1750 RAND ROAD RAPID CITY, SD 57702 605-348-7455 MIKE SIGMAN (ELEC) MICHAEL HEINRICH (MECH) 			DESIGNER OF RECORD A/E: Stone Group Architects 600 E. 7th Street Sioux Falls, SD 57103 phone: 605.271.1144 stonegrouparchitects.com  STONE GROUP ARCHITECTS			STAMP 			Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs			Drawing Title SECOND FLOOR & ATTIC LIGHTING PLANS Approved DOUG SPRINKLE			Phase 100% CONSTRUCTION DOCUMENTS FULLY SPRINKLERED			Project Title DOM RENOVATION FOR SEMIPRIVATE ROOMS Location HOT SPRINGS, SOUTH DAKOTA Issue Date 06/03/2025 Checked MRS Drawn VLS			Project Number VA #568A4-21-208 SGA #BR21039 Building Number 8 Drawing Number EL-102		
1 ISSUE # BID DOCUMENTS DESCRIPTION 06/03/25 DATE																										



1 BASEMENT MECHANICAL EQUIPMENT POWER PLAN
1/8" = 1'-0"
NORTH



2 BASEMENT POWER PLAN
1/8" = 1'-0"
NORTH

- ELECTRICAL MISCELLANEOUS NOTES**
- A ALL FIXTURES OR WIRING DEVICES SHOWN TO BE INSTALLED WITHIN EXISTING SHEETROCK WALLS SHALL BE FISHED INTO THE WALL BY THE CONTRACTOR.
- B ELECTRICAL ITEMS IN LIGHT PEN ARE EXISTING. ELECTRICAL ITEMS IN DARK PEN ARE NEW OR ARE TO BE TREATED AS NOTED.
- C COORDINATE ALL ROUGH-IN WITH CASEWORK AND EQUIPMENT PRIOR TO INSTALLATION.
- ELECTRICAL SPECIFIC NOTES**
- E202 CONTRACTOR TO PROVIDE NEMA L21-20R RECEPTACLES AT CEILING FOR BOTH THREE PHASE CIRCUITS. ONE CIRCUIT WILL BE USED TO PLUG THE UPS INTO WHICH WILL THEN FEED ONE OF THE VERTICAL PDUS. THE SECOND CIRCUIT WILL PROVIDE POWER DIRECTLY TO THE OTHER VERTICAL PDU.
- E203 PROVIDE A FUSED SHUNT-TRIP ELEVATOR DISCONNECT SWITCH FOR ELEVATOR CIRCUIT. ELEVATOR SHUNT-TRIP DISCONNECT SWITCH SHALL BE EQUAL TO BUSSMANN #PS-2-T20-R2-K-R-N2-B-F-U. INTERLOCK SHUNT-TRIP WITH HEAT DETECTOR IN ELEVATOR EQUIPMENT ROOM AND FLOW SWITCH FOR FIRE SPRINKLER HEAD(S) IN ELEVATOR SHAFT. FUSE ACCORDING TO MANUFACTURER'S REQUIREMENTS. POWER ELEVATOR FROM EXISTING PANEL 2-EQOP-1 LOCATED IN BUILDING 2 ELEC B2. SEE SHEET EP-202 FOR KEY PLAN SHOWING LOCATION OF THIS BUILDING 2 ELEC B2. PANEL 2-EQOP-1 IS A WESTINGHOUSE COT PANEL. CONTRACTOR TO PROVIDE A NEW 110A BREAKER IN THIS PANEL AND IT SHALL BE RATED AT 65KAIC. PROVIDE 2" CONDUIT WITH 3-#10 CU & 1-#4 CU (GND).
- E204 POWER NEW CHILLER FROM EXISTING CIRCUIT THAT WAS POWERING THE EXISTING CHILLER THAT WAS DEMOLISHED UNDER THIS PROJECT. THE ELECTRICAL CONTRACTOR MAY USE EXISTING CONDUIT AND CONDUCTOR FROM EXISTING CIRCUIT. PROVIDE NEW 200A/3P/NEMA 3R/FUSED DISCONNECT AND EXTENSION OF CONDUIT AND CONDUCTORS AS NEEDED. FUSE PER MANUFACTURER'S NAME PLATE.
- E205 PROVIDE POWER TO NEW ELEVATOR SUMP PUMP CONTROL PANEL. WIRE PUMP BACK TO CONTROL PANEL.
- E206 EXISTING SUMP PUMP. RE-POWER AS SHOWN.
- E207 INSTALL RECEPTACLE IN ELEVATOR PIT AND AT TOP OF ELEVATOR SHAFT. COORDINATE FINAL LOCATION WITH ELEVATOR EQUIPMENT SUPPLIER.
- E209 PROVIDE POWER TO ELEVATOR SMOKE CURTAIN AS SHOWN. TIE SMOKE CURTAIN INTO FIRE ALARM SYSTEM SO THAT CURTAIN WILL DEPLOY WHEN SMOKE IS SENSED BY THE SMOKE DETECTOR IN THE ELEVATOR LOBBY.
- E210 PROVIDE 30A/2P/FUSED DISCONNECT FOR ELEVATOR LIGHTING AND RECEPTACLE CIRCUITS SHALL BE ROUTED THROUGH THIS DISCONNECT, THEN THROUGH THE RELAYS IN THE ELEVATOR DISCONNECT SWITCH AND THEN TO THE ELEVATOR CONTROL PANEL.
- E211 CONTRACTOR TO PROVIDE NEMA L5-30R RECEPTACLES AT CEILING FOR BOTH SINGLE PHASE CIRCUITS. ONE CIRCUIT WILL BE USED TO PLUG THE UPS INTO WHICH WILL THEN FEED ONE OF THE VERTICAL PDUS.
- E212 NEW LOCATION FOR RELOCATED GROUND BAR. CONTRACTOR TO MODIFY/EXTEND EXISTING #30 CABLE FOR TERMINATION TO THE GROUND BAR. CONTRACTOR TO PROVIDE #6 BONDING CONNECTION TO THE RELOCATED RACK AND EACH PIECE OF EQUIPMENT WITHIN THE RACK. PROVIDE BONDING TO THE BUILDING STEEL AND PROVIDE BONDING TO ALL RACEWAYS. CABLE TRAYS AND LADDER RACKS. PROVIDE #4 BONDING CONDUCTOR FROM THIS GROUND BAR TO EACH OF THE CABINET ENCLOSURES IN TR 102 AND TR 201.
- E214 THE FLOORING WITHIN THIS SPACE WILL BE STATIC DISSIPATIVE VINYL TILE (SDT). THE CONTRACTOR WILL NEED TO BOND THE SDT TO THE GROUND BAR WITHIN THE ROOM AS DETAILED IN THESE DOCUMENTS.

1	BID DOCUMENTS	06/03/25
ISSUE #	DESCRIPTION	DATE
1	BID DOCUMENTS	06/03/25

CONSULTANTS

STRUCTURAL:
ALBERTSON ENGINEERING, INC.
3202 W. MAIN ST., #C
RAPID CITY, SD 57702
605-343-9606
STEPHEN KILBER

Albertson Engineering Inc.

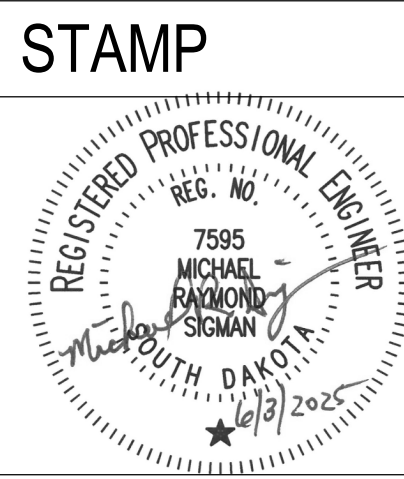
MEP:
WEST PLAINS ENGINEERING, INC.
1750 RAND ROAD
RAPID CITY, SD 57702
605-348-7455
MIKE SIGMAN (ELEC)
MICHAEL HEINRICH (MECH)

WPE WEST PLAINS ENGINEERING, INC.

DESIGNER OF RECORD

A/E:
Stone Group Architects
600 E. 7th Street
Sioux Falls, SD 57103
phone: 605.271.1144
stonegrouparchitects.com

STONE GROUP ARCHITECTS



Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
BASEMENT POWER PLANS

Approved
DOUG SPRINKLE

Phase
100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title
DOM RENOVATION FOR SEMIPRIVATE ROOMS

Location
HOT SPRINGS, SOUTH DAKOTA

Issue Date
06/03/2025

Checked
MRS

Drawn
VLS

Project Number
VA #568A4-21-208
SGA #BR21039
Building Number
8

Drawing Number
EP-201