

SHEET INDEX

Table listing sheet details including categories like 01-GENERAL, 04-STRUCTURAL, 08-ARCHITECTURAL DEMOLITION, 08-ARCHITECTURAL, 10-MECHANICAL/PLUMBING, and 11-ELECTRICAL, with sub-item numbers and descriptions.



VA BLACK HILLS HEALTH CARE SYSTEM
VA FM UPGRADE MENTAL HEALTH LOCK WARD

BUILDING #148
FORT MEADE, SOUTH DAKOTA

VA#568-20-102
CONSTRUCTION DOCUMENTS
08/29/22

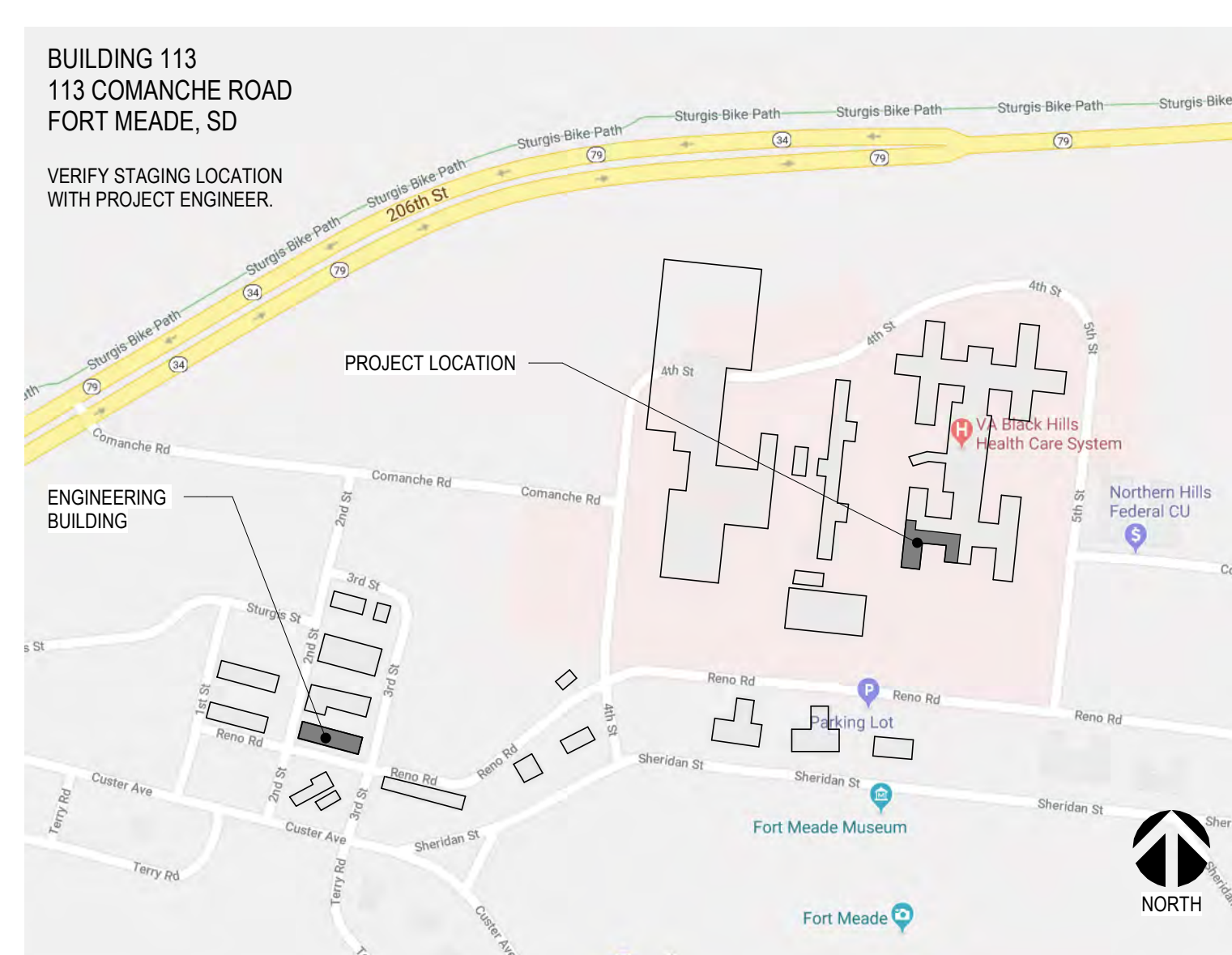
COMMON ABBREVIATIONS

Large table of common abbreviations with columns for symbol, description, and additional details.

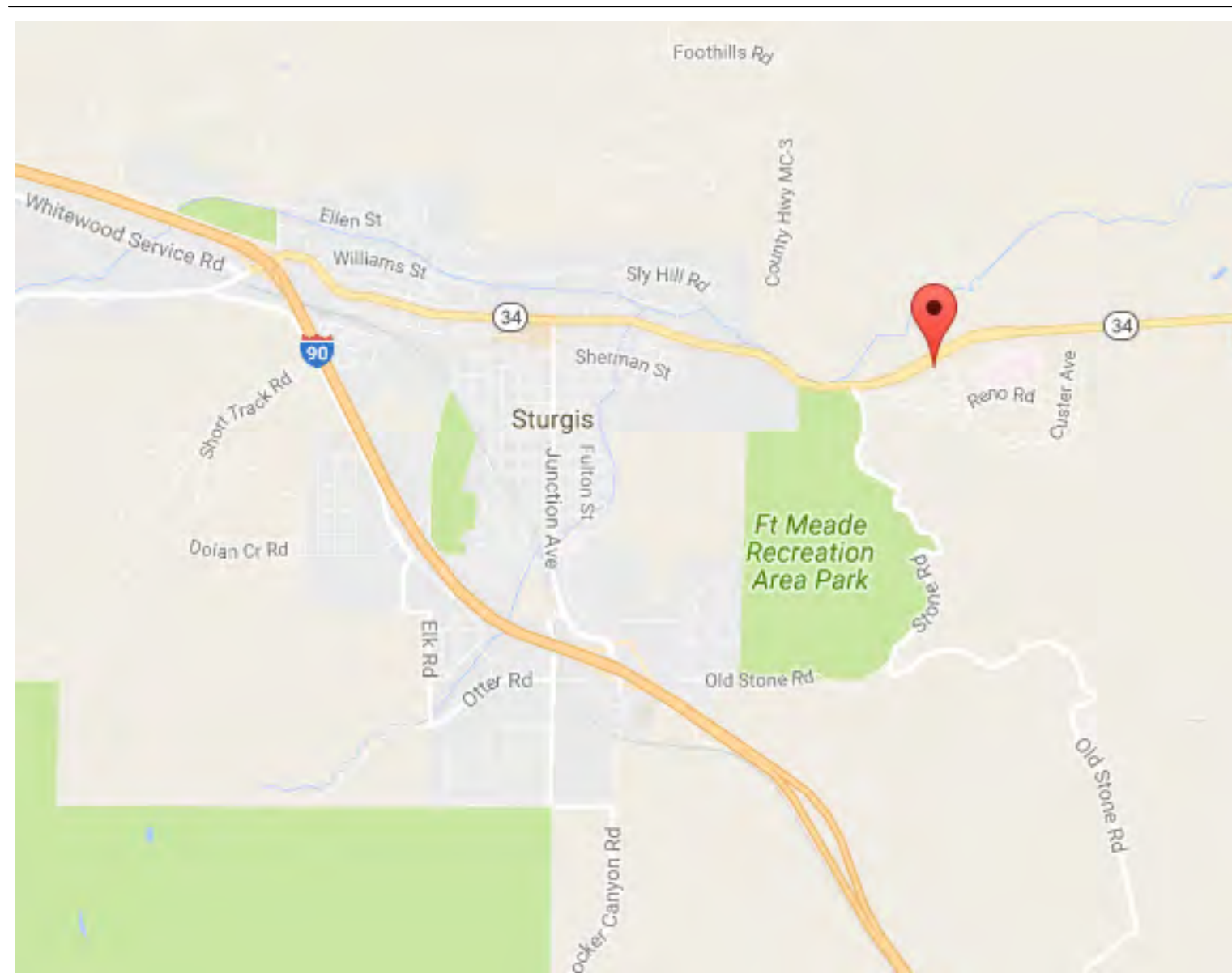
SYMBOLS LEGEND

Table defining symbols used in the drawings, such as BATT INSULATION, GYPSUM BOARD, CONCRETE, RIGID INSULATION, etc.

SITE MAP



VICINITY MAP



CONSULTANTS

Table listing consulting firms and their contact information.

ARCHITECT OF RECORD

Table listing the Architect of Record: Stone Group Architects, 600 E 7th Street, Sioux Falls, SD 57103.

STAMP

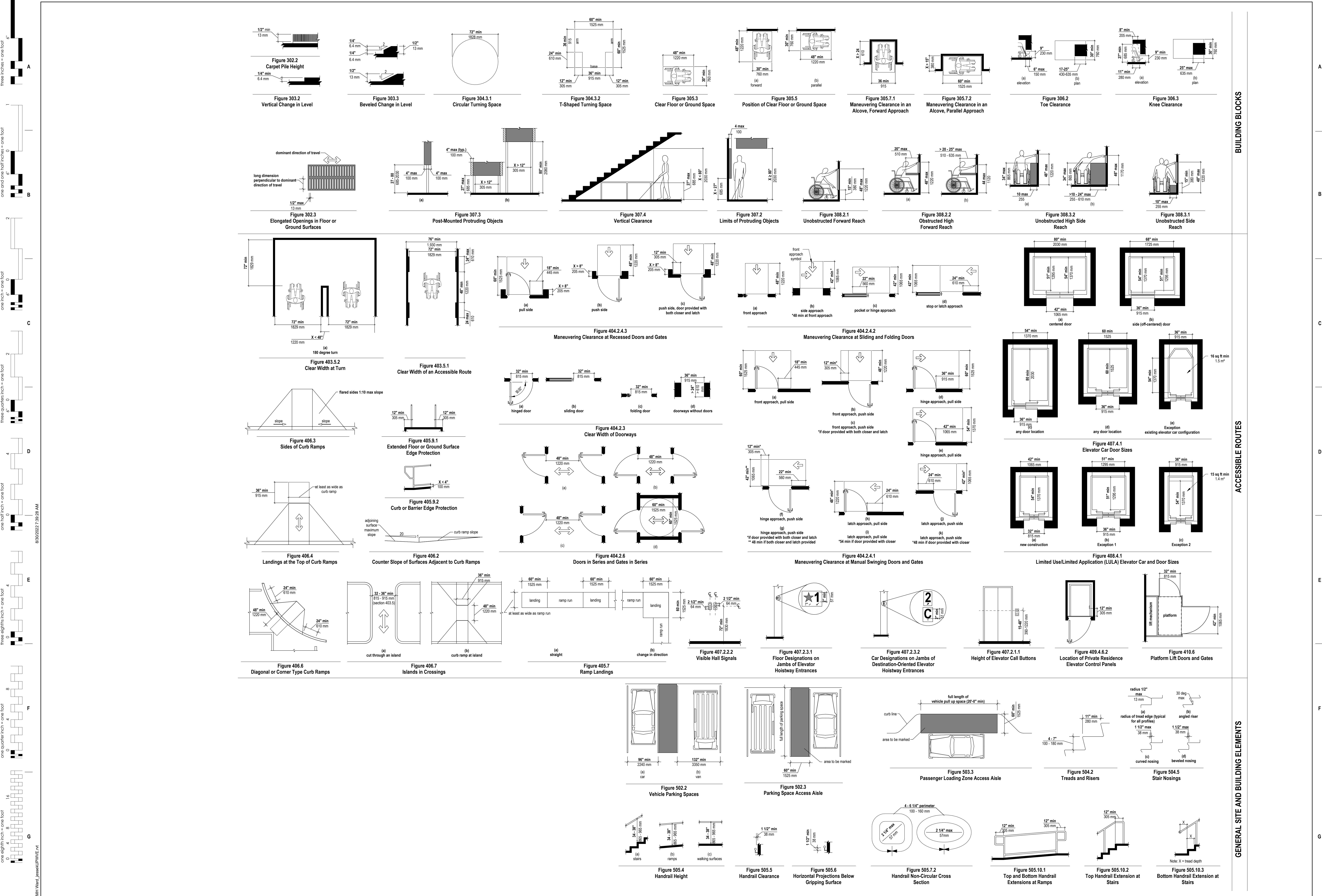


Drawing Title: COVER SHEET
Approved:

Phase: CONSTRUCTION DOCUMENTS

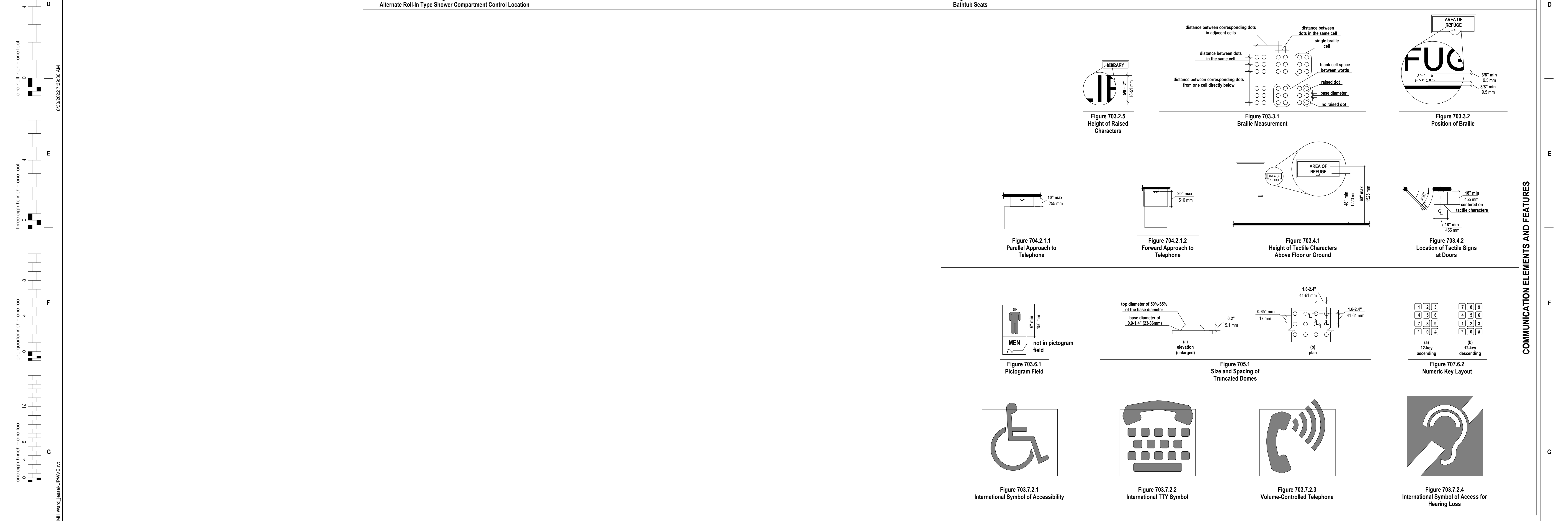
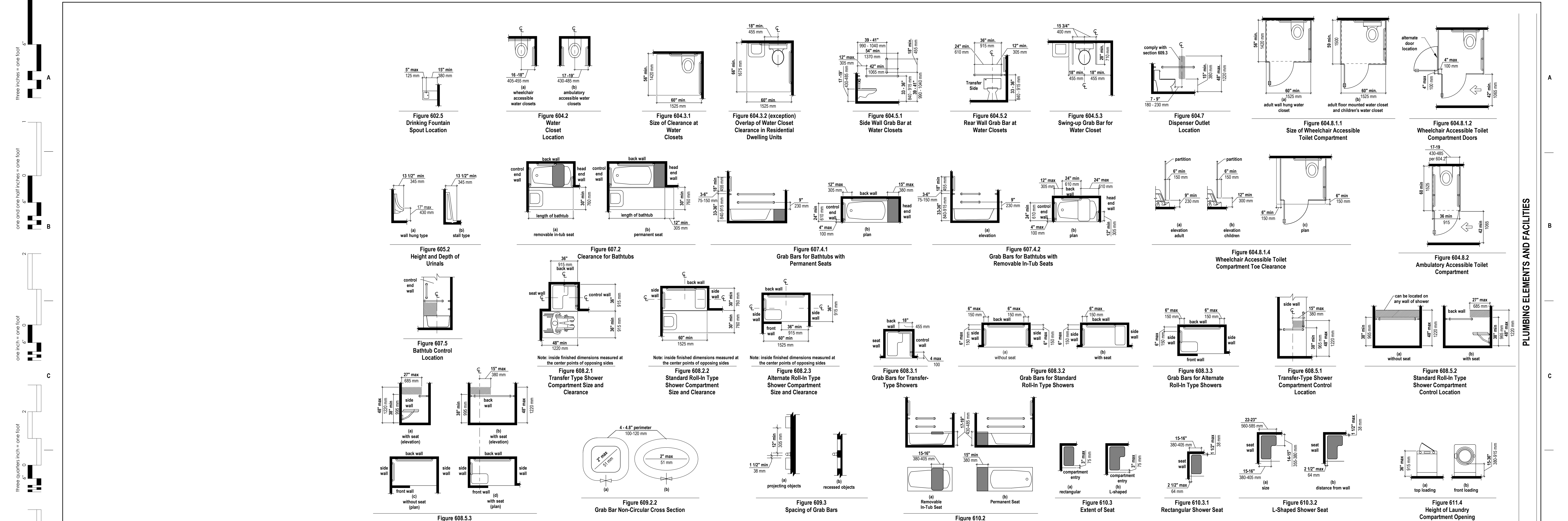
FULLY SPRINKLERED

Table with project details including Project Title (VA FM UPGRADE MENTAL HEALTH LOCK WARD), Location (FORT MEADE, SOUTH DAKOTA), Issue Date (08/29/22), Checked (JHK), Drawn (RMV/DAN), Project Number (VA #568-20-102 SGA #211937), Building Number (148), and Drawing Number (GI-000).



Revision#	Description	Date:

<b>CONSULTANTS</b> MECHANICAL / ELECTRICAL / PLUMBING: West Plains Engineering, Inc. 1750 Rand Road Rapid City, South Dakota 57702 Phone: 605-340-7455		STRUCTURAL: Albertson Engineering, Inc. 2022 W. Main St., E.C. Rapid City, South Dakota 57702 Phone: 605-343-8609		<b>ARCHITECT OF RECORD</b> A/E: Stone Group Architects 600 E 7th Street Sioux Falls, SD 57103 605-271-1144		<b>STAMP</b> Office of Construction and Facilities Management U.S. Department of Veterans Affairs		Drawing Title: <b>ACCESSIBILITY DETAILS</b> Approved:		Phase: <b>CONSTRUCTION DOCUMENTS</b> <b>FULLY SPRINKLERED</b>		Project Title: <b>VA FM UPGRADE MENTAL HEALTH LOCK WARD</b> Location: <b>FORT MEADE, SOUTH DAKOTA</b> Issue Date: 08/29/22		Project Number: <b>VA #568-20-102 SGA #211937</b> Building Number: <b>148</b> Drawing Number: <b>GI-001</b>	
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<b>CONSULTANTS</b> MECHANICAL / ELECTRICAL / PLUMBING: <b>WPE</b> West Plains Engineering, Inc. 1750 Rand Road Rapid City, South Dakota 57702 Phone: 605-340-7455		STRUCTURAL: Albertson Engineering, Inc. 2022 W. Main St., E.C. Rapid City, South Dakota 57702 Phone: 605-340-8609		<b>ARCHITECT OF RECORD</b> A/E: Stone Group Architects 600 E 7th Street Sioux Falls, SD 57103 605-271-1144		<b>STAMP</b> Office of Construction and Facilities Management U.S. Department of Veterans Affairs		Drawing Title: <b>ACCESSIBILITY DETAILS</b>		Phase: <b>CONSTRUCTION DOCUMENTS</b>		Project Title: <b>VA FM UPGRADE MENTAL HEALTH LOCK WARD</b>		Project Number: VA #568-20-102 SGA #211937	
Revisions:		Approved:		Fully Sprinklered		Location: <b>FORT MEADE, SOUTH DAKOTA</b>		Issue Date: 08/29/22		Checked: JHK		Drawn: RMV/DAN		Building Number: 148	
Date:		Drawing Number: <b>GI-002</b>		Drawing Number: <b>148</b>		Drawing Number: <b>148</b>		Drawing Number: <b>148</b>		Drawing Number: <b>148</b>		Drawing Number: <b>148</b>		Drawing Number: <b>148</b>	

**GENERAL CODE PLAN NOTES:**

- A. ANY DISCREPANCIES OR CONFLICTS FOUND IN THE VARIOUS PARTS OF THE CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE OWNER BEFORE PROCEEDING WITH THE WORK.
- B. SMOKE SEALS ON ALL RATED DOORS.
- C. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

**BUILDING CODES, GUIDES, MANUALS**

NOTE: ALL WORK IS TO BE PERFORMED TO THE LATEST EDITION OF THE FOLLOWING CODES, ORDINANCES, AND LAWS WHICH INCLUDE, BUT ARE NOT LIMITED TO:

- VA DIRECTIVES, DESIGN MANUALS, MASTER SPECIFICATIONS, VA NATIONAL CAD STANDARD APPLICATION GUIDE, AND OTHER GUIDANCE INFORMATION ON THE TECHNICAL INFORMATION LIBRARY (TL)
- INTERNATIONAL BUILDING CODE (IBC) (ONLY WHEN SPECIFICALLY REFERENCED IN VA DESIGN DOCUMENTS)
- NFPA 101 LIFE SAFETY CODE
- NFPA NATIONAL FIRE CODES WITH THE EXCEPTION OF NFPA 5000 AND NFPA 900
- OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS
- VA SEISMIC DESIGN REQUIREMENTS, H-18-8
- NATIONAL ELECTRICAL CODE (NEC)
- INTERNATIONAL PLUMBING CODE (IPC)
- ASME BOILER AND PRESSURE VESSEL CODE
- ASME CODE FOR PRESSURE PIPING
- ARCHITECTURAL BARRIER ACT ACCESSIBILITY STANDARDS (ABAS) INCLUDING VA SUPPLEMENT BARRIER FREE DESIGN GUIDE PG-18-13
- BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, AMERICAN CONCRETE INSTITUTE AND COMMENTARY (ACI 318)
- MANUAL OF STEEL CONSTRUCTION, LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)
- ENERGY POLICY ACT OF 2005 (EPACT)
- DOE INTERIM FINAL RULE, ENERGY CONSERVATION STANDARDS FOR NEW FEDERAL, COMMERCIAL AND MULTI-FAMILY HIGH-RISE RESIDENTIAL BUILDINGS AND NEW LOW-RISE RESIDENTIAL BUILDINGS, 15 CFR PARTS 431, 434, AND 435
- FEDERAL LEADERSHIP IN HIGH PERFORMANCE AND SUSTAINABLE BUILDINGS MEMORANDUM OF UNDERSTANDING (MOU)
- EXECUTIVE ORDER 13803: STRENGTHENING FEDERAL ENVIRONMENT, ENERGY, AND TRANSPORTATION MANAGEMENT
- THE PROVISIONS FOR CONSTRUCTION AND SAFETY SIGNS, STATED IN THE GENERAL REQUIREMENTS SECTION 01010 IF THE VA MASTER CONSTRUCTION SPECIFICATION
- VENTILATION FOR THE ACCEPTABLE INDOOR AIR QUALITY - ASHRAE STANDARD 62.1 - 2004
- SAFETY STANDARDS FOR RESTRICTION SYSTEMS - ASHRAE STANDARD 15 - 2007
- ASME SAFETY CODE FOR ELEVATORS - A17.1, A17.3, A17.5, A17.8, A18.1
- STANDARDS FOR THE QUALIFICATION OF ELEVATOR INSPECTORS - ASME QEE-1
- GUIDE FOR INSPECTION OF ELEVATORS - A17.2
- AMERICAN SOCIETY OF SAFETY ENGINEERS (ASSE) - PERSONNEL, HOSTS AND EMPLOYEE ELEVATORS ON CONSTRUCTION AND DEMOLITION OPERATIONS A10.4

**GENERAL PHASING NOTES:**

- A. COORDINATION WITH DEPARTMENTAL AND FACILITY STAFFING IS REQUIRED TO MAINTAIN OPERATIONS.
- B. ALL WORK MUST BE COMPLETED TO MINIMALLY IMPACT PATIENT SERVICES.
- C. AT ALL TIME, ACCESS TO CONSTRUCTION AREAS MUST BE SECURE. ALL MATERIALS, EQUIPMENT AND TOOLS MUST BE BEHIND LOCKED DOORS.
- D. ACCESS TO LOCKED WARD PORTIONS EXCEPT PER PHASING IS STRICTLY PROHIBITED.

**BUILDING CODE SUMMARY**

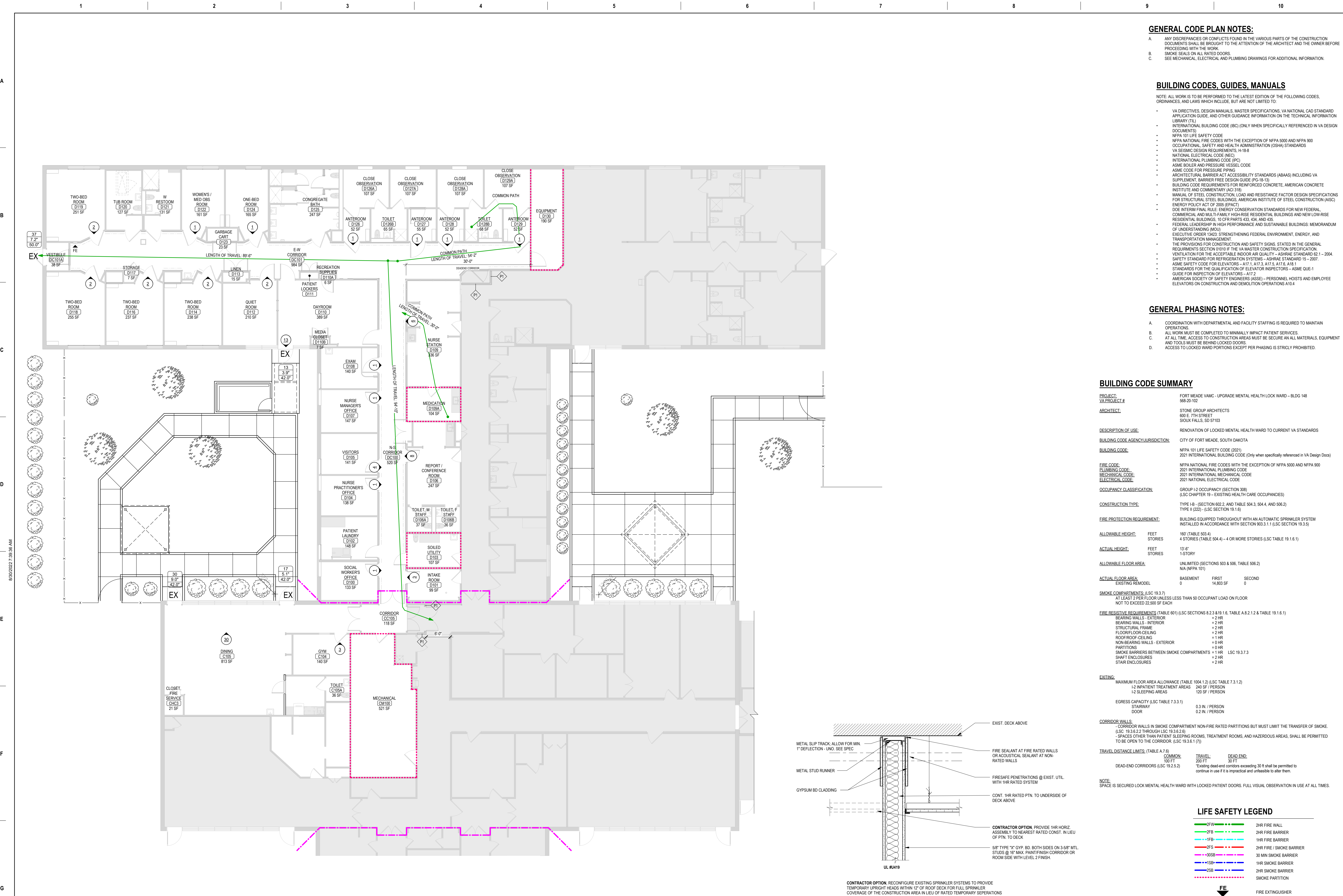
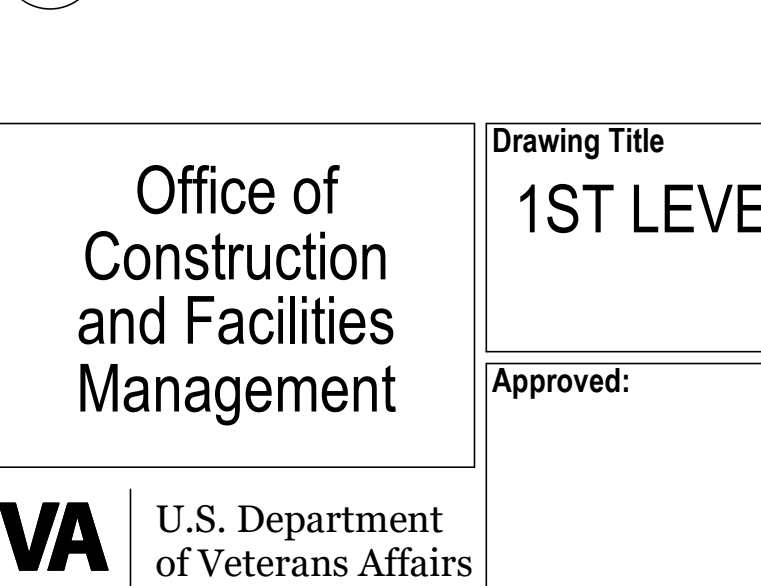
<b>PROJECT:</b>	FORT MEADE WARD - UPGRADE MENTAL HEALTH LOCK WARD - BLDG 148
<b>VA PROJECT #:</b>	588-20-102
<b>ARCHITECT:</b>	STONE GROUP ARCHITECTS 600 E. 7TH STREET SIOUX FALLS, SD 57103
<b>DESCRIPTION OF USE:</b>	RENOVATION OF LOCKED MENTAL HEALTH WARD TO CURRENT VA STANDARDS
<b>BUILDING CODE AGENCY/JURISDICTION:</b>	CITY OF FORT MEADE, SOUTH DAKOTA
<b>BUILDING CODE:</b>	NFPA 101 LIFE SAFETY CODE (2021) 2021 INTERNATIONAL BUILDING CODE (Only when specifically referenced in VA Design Docs)
<b>FIRE CODE:</b>	NFPA NATIONAL FIRE CODES WITH THE EXCEPTION OF NFPA 5000 AND NFPA 900
<b>PLUMBING CODE:</b>	2021 INTERNATIONAL PLUMBING CODE
<b>MECHANICAL CODE:</b>	2021 INTERNATIONAL MECHANICAL CODE
<b>ELECTRICAL CODE:</b>	2021 NATIONAL ELECTRICAL CODE
<b>OCCUPANCY CLASSIFICATION:</b>	GROUP I-2 OCCUPANCY (SECTION 308) (LSC CHAPTER 19 - EXISTING HEALTH CARE OCCUPANCIES)
<b>CONSTRUCTION TYPE:</b>	TYPE I-B - (SECTION 602.2, AND TABLE 504.3, 504.4, AND 506.2) TYPE II (222) - (LSC SECTION 19.1.6)
<b>FIRE PROTECTION REQUIREMENT:</b>	BUILDING EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3.1 (LSC SECTION 19.3.3)
<b>ALLOWABLE HEIGHT:</b>	FEET 18' (TABLE 503.6) 4 STORIES (TABLE 504.4) - 4 OR MORE STORIES (LSC TABLE 19.1.6.1)
<b>ACTUAL HEIGHT:</b>	FEET 13'-6" 1-STORY
<b>ALLOWABLE FLOOR AREA:</b>	UNLIMITED (SECTIONS 503 & 506, TABLE 506.2) N/A (NFPA 101)
<b>ACTUAL FLOOR AREA:</b>	BASEMENT 14,803 SF EXISTING REMODEL 0
<b>SMOKE COMPARTMENTS (LSC 19.3.7):</b>	AT LEAST 2 PER FLOOR UNLESS LESS THAN 50 OCCUPANT LOAD ON FLOOR NOT TO EXCEED 22,500 SF EACH
<b>FIRE RESISTIVE REQUIREMENTS (TABLE 601) (LSC SECTIONS 8.2.3, 8.19.1.6, TABLE A.8.2.1.2 &amp; TABLE 19.1.6.1)</b>	BEARING WALLS - EXTERIOR = 2 HR BEARING WALLS - INTERIOR = 2 HR STRUCTURAL FRAME = 2 HR FLOOR/FLOOR CEILING = 2 HR ROOF/ROOF CEILING = 1 HR NON-BEARING WALLS - EXTERIOR = 0 HR PARTITIONS = 0 HR SMOKE BARRIERS BETWEEN SMOKE COMPARTMENTS = 1 HR (LSC 19.3.7.3) SHAFT ENCLOSURES = 2 HR STAIR ENCLOSURES = 2 HR
<b>EXITING:</b>	MAXIMUM FLOOR AREA ALLOWANCE (TABLE 1004.1.2) (LSC TABLE 7.3.1.2) I-2 INPATIENT TREATMENT AREAS 240 SF / PERSON I-2 SLEEPING AREAS 120 SF / PERSON
<b>EGRESS CAPACITY (LSC TABLE 7.3.3.1)</b>	STAIRWAY 0.3 IN / PERSON DOOR 0.2 IN / PERSON
<b>CORRIDOR WALLS:</b>	- CORRIDOR WALLS IN SMOKE COMPARTMENT NON-FIRE RATED PARTITIONS BUT MUST LIMIT THE TRANSFER OF SMOKE. (LSC 19.3.6.2.2 THROUGH LSC 19.3.6.2.6) - SPACES OTHER THAN PATIENT SLEEPING ROOMS, TREATMENT ROOMS, AND HAZARDOUS AREAS, SHALL BE PERMITTED TO BE OPEN TO THE CORRIDOR. (LSC 19.3.6.1.7)
<b>TRAVEL DISTANCE LIMITS (TABLE A.7.6)</b>	COMMON: TRAVEL: 200 FT DEAD END: 50 FT DEAD-END CORRIDORS (LSC 19.2.5.2): TRAVEL: 100 FT DEAD END: 30 FT Existing dead-end corridors exceeding 30' shall be permitted to continue in use if it is impractical and unfeasible to alter them.
<b>NOTE:</b>	SPACE IS SECURED LOCK MENTAL HEALTH WARD WITH LOCKED PATIENT DOORS. FULL VISUAL OBSERVATION IN USE AT ALL TIMES.

**LIFE SAFETY LEGEND**

- 2HR FIRE WALL
- 2HR FIRE BARRIER
- 1HR FIRE BARRIER
- 2HR FIRE / SMOKE BARRIER
- 30MIN SMOKE BARRIER
- 1HR SMOKE BARRIER
- 2HR SMOKE BARRIER
- SMOKE PARTITION
- FIRE EXTINGUISHER

**FIRE RATED TEMPORARY DUST PARTITION**

G8 1 1/2" = 1'-0"



**CONSULTANTS**

<b>MECHANICAL / ELECTRICAL / PLUMBING:</b> WPE West Plains Engineering, Inc. 1750 Rand Road Rapid City, South Dakota 57702 Phone: 605-340-7465	<b>STRUCTURAL:</b> Albertson Engineering, Inc. 2302 W. Main St., E.C. Rapid City, South Dakota 57702 Phone: 605-343-9609
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**ARCHITECT OF RECORD**  
A/E:  
Stone Group Architects  
600 E 7th Street  
Sioux Falls, SD 57103  
605-271-1144

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

**STAMP**

**Drawing Title:** 1ST LEVEL LIFE SAFETY PLAN  
**Phase:** CONSTRUCTION DOCUMENTS  
**Project Title:** VA FM UPGRADE MENTAL HEALTH LOCK WARD  
**Location:** FORT MEADE, SOUTH DAKOTA  
**Project Number:** VA #568-20-102 SGA #211937  
**Building Number:** 148  
**Drawing Number:** GI-003

**Issue Date:** 08/29/22  
**Checked:** JHK  
**Drawn:** RMV/DAN

**GENERAL CODE PLAN NOTES:**

- ANY DISCREPANCIES OR CONFLICTS FOUND IN THE VARIOUS PARTS OF THE CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE OWNER BEFORE PROCEEDING WITH THE WORK.
- SMOKE SEALS ON ALL RATED DOORS.
- SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

**BUILDING CODE SUMMARY**

**PROJECT:** FORT MEADE VAMC - UPGRADE MENTAL HEALTH LOCK WARD - BLDG 148  
**VA PROJECT #:** 568-20-102  
**ARCHITECT:** STONE GROUP ARCHITECTS  
 600 E. 7TH STREET  
 SIOUX FALLS, SD 57103

**DESCRIPTION OF USE:** RENOVATION OF LOCKED MENTAL HEALTH WARD TO CURRENT VA STANDARDS

**BUILDING CODE AGENCY/JURISDICTION:** CITY OF FORT MEADE, SOUTH DAKOTA

**BUILDING CODE:** NFPA 101 LIFE SAFETY CODE (2021)  
 2021 INTERNATIONAL BUILDING CODE (Only when specifically referenced in VA Design Docs)

**FIRE CODE:** NFPA NATIONAL FIRE CODES WITH THE EXCEPTION OF NFPA 5000 AND NFPA 900  
**PLUMBING CODE:** 2021 INTERNATIONAL PLUMBING CODE  
**MECHANICAL CODE:** 2021 INTERNATIONAL MECHANICAL CODE  
**ELECTRICAL CODE:** 2021 NATIONAL ELECTRICAL CODE

**OCCUPANCY CLASSIFICATION:** GROUP I-2 OCCUPANCY (SECTION 308)  
 (LSC CHAPTER 19 - EXISTING HEALTH CARE OCCUPANCIES)

**CONSTRUCTION TYPE:** TYPE I-B - (SECTION 602.2, AND TABLE 504.3, 504.4, AND 506.2)  
 TYPE II (222) - (LSC SECTION 19.1.6)

**FIRE PROTECTION REQUIREMENT:** BUILDING EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM  
 INSTALLED IN ACCORDANCE WITH SECTION 903.3.1.1 (LSC SECTION 19.3.5)

**ALLOWABLE HEIGHT:** FEET 160' (TABLE 503.4)  
 STORES 4 STORES (TABLE 504.4) - 4 OR MORE STORES (LSC TABLE 19.1.6)

**ACTUAL HEIGHT:** FEET 13'-6"  
 STORES 1 STORY

**ALLOWABLE FLOOR AREA:** UNLIMITED (SECTIONS 503 & 506, TABLE 506.2)  
 N/A (NFPA 101)

**ACTUAL FLOOR AREA:** BASEMENT 0 FIRST 14,803 SF SECOND 0

**SMOKE COMPARTMENTS:** (LSC 19.3.7)  
 AT LEAST 2 PER FLOOR UNLESS LESS THAN 50 OCCUPANT LOAD ON FLOOR  
 NOT TO EXCEED 22,500 SF EACH

**FIRE RESISTIVE REQUIREMENTS:** (TABLE 601) (LSC SECTIONS 8.2.3, 8.19.1.6, TABLE A.8.2.1.2 & TABLE 19.1.6.1)

**BEARING WALLS - EXTERIOR** = 2 HR  
**BEARING WALLS - INTERIOR** = 2 HR  
**STRUCTURAL FRAME** = 2 HR  
**FLOOR/FLOOR/CEILING** = 2 HR  
**ROOF/ROOF-CEILING** = 1 HR  
**NON-BEARING WALLS - EXTERIOR** = 0 HR  
**PARTITIONS** = 0 HR  
**SMOKE BARRIERS BETWEEN SMOKE COMPARTMENTS** = 1 HR LSC 19.3.7.3  
**SHAFT ENCLOSURES** = 2 HR  
**STAIR ENCLOSURES** = 2 HR

**EXITING:** MAXIMUM FLOOR AREA ALLOWANCE (TABLE 1004.1.2) (LSC TABLE 7.3.1.2)  
 I-2 INPATIENT TREATMENT AREAS 240 SF / PERSON  
 I-2 SLEEPING AREAS 120 SF / PERSON

**EGRESS CAPACITY:** (LSC TABLE 7.3.3.1)  
 STAIRWAY 0.3 M / PERSON  
 DOOR 0.2 M / PERSON

**CORRIDOR WALLS:**  
 - CORRIDOR WALLS IN SMOKE COMPARTMENT NON-FIRE RATED PARTITIONS BUT MUST LIMIT THE TRANSFER OF SMOKE. (LSC 19.3.6.2.2 THROUGH LSC 19.3.6.2.6)  
 - SPACES OTHER THAN PATIENT SLEEPING ROOMS, TREATMENT ROOMS, AND HAZARDOUS AREAS, SHALL BE PERMITTED TO BE OPEN TO THE CORRIDOR. (LSC 19.3.6.1 (7))

**TRAVEL DISTANCE LIMITS:** (TABLE A.7.6)

	COMMON	TRAVEL	DEAD END
STAIRWAY	100 FT	200 FT	50 FT
DOOR	100 FT	200 FT	50 FT

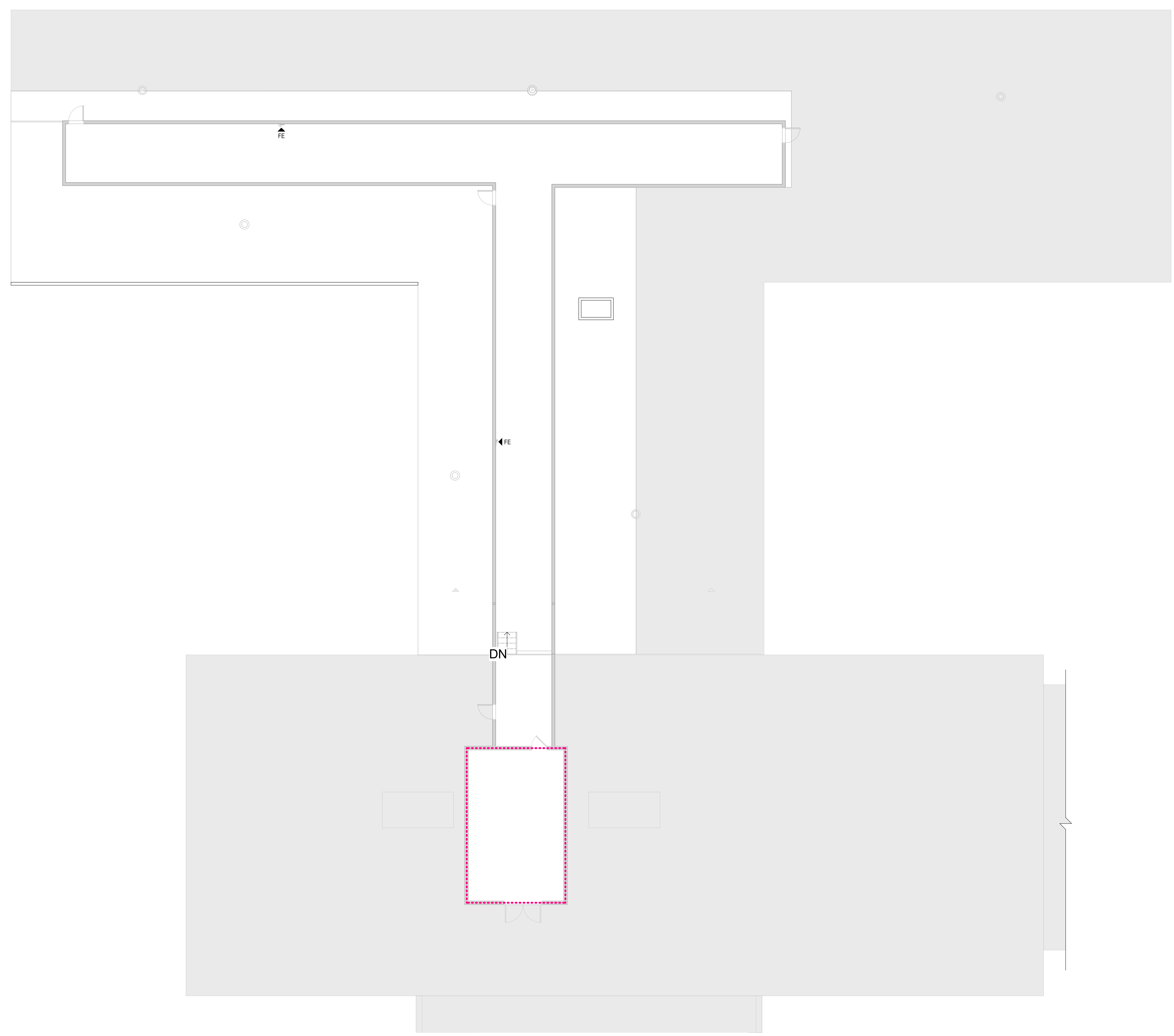
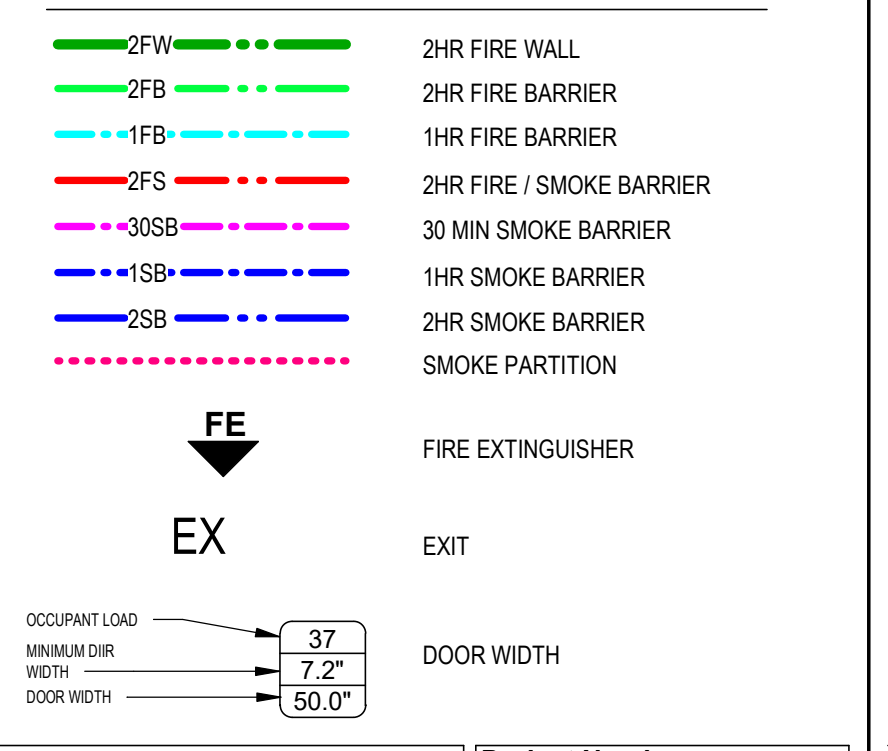
**DEAD-END CORRIDORS:** (LSC 19.2.5.2)  
 \*Existing dead end corridors exceeding 30 ft shall be permitted to continue in use if it is impractical and unfeasible to alter them.

**NOTE:**  
 SPACE IS SECURED LOCK MENTAL HEALTH WARD WITH LOCKED PATIENT DOORS. FULL VISUAL OBSERVATION IN USE AT ALL TIMES.

**BUILDING CODES, GUIDES, MANUALS**

- NOTE: ALL WORK IS TO BE PERFORMED TO THE LATEST EDITION OF THE FOLLOWING CODES, ORDINANCES, AND LAWS WHICH INCLUDE, BUT ARE NOT LIMITED TO:
- VA DIRECTIVES, DESIGN MANUALS, MASTER SPECIFICATIONS, VA NATIONAL CAD STANDARD APPLICATION GUIDE, AND OTHER GUIDANCE INFORMATION ON THE TECHNICAL INFORMATION LIBRARY (TIL)
  - INTERNATIONAL BUILDING CODE (IBC) (ONLY WHEN SPECIFICALLY REFERENCED IN VA DESIGN DOCUMENTS)
  - NFPA 101 LIFE SAFETY CODE
  - NFPA NATIONAL FIRE CODES WITH THE EXCEPTION OF NFPA 5000 AND NFPA 900
  - OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS
  - VA SEISMIC DESIGN REQUIREMENTS, 15-16-8
  - NATIONAL ELECTRICAL CODE (NEC)
  - INTERNATIONAL PLUMBING CODE (IPC)
  - ASME BOILER AND PRESSURE VESSEL CODE
  - ASME CODE FOR PRESSURE PIPING
  - ARCHITECTURAL BARRIER ACT ACCESSIBILITY STANDARDS (ABAS) INCLUDING VA SUPPLEMENT, BARRIERS FREE DESIGN GUIDE (PG-19-13)
  - BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, AMERICAN CONCRETE INSTITUTE AND COMMENTARY (ACI 318)
  - MANUAL OF STEEL CONSTRUCTION, LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)
  - ENERGY POLICY ACT OF 2005 (EPACT)
  - DOE INTERIM FINAL RULE, ENERGY CONSERVATION STANDARDS FOR NEW FEDERAL, COMMERCIAL, AND MULTIFAMILY HIGH-RISE RESIDENTIAL BUILDINGS AND NEW LOW-RISE RESIDENTIAL BUILDINGS, 10 CFR PARTS 433, 434, AND 435
  - FEDERAL LEADERSHIP IN HIGH PERFORMANCE AND SUSTAINABLE BUILDINGS, MEMORANDUM OF UNDERSTANDING (MUI)
  - EXECUTIVE ORDER 13423, STRENGTHENING FEDERAL ENVIRONMENT, ENERGY, AND TRANSPORTATION MANAGEMENT
  - THE PROVISIONS FOR CONSTRUCTION AND SAFETY SIGNS, STATED IN THE GENERAL REQUIREMENTS SECTION 01010 IF THE VA MASTER CONSTRUCTION SPECIFICATION
  - VENTILATION FOR THE ACCEPTABLE INDOOR AIR QUALITY - ASHRAE STANDARD 62.1 - 2004
  - SAFETY STANDARD FOR REFRIGERATION SYSTEMS - ASHRAE STANDARD 15 - 2007
  - ASME SAFETY CODE FOR ELEVATORS - A17.1, A17.3, A17.5, A17.6, A17.7, A17.8, A17.9
  - STANDARDS FOR THE QUALIFICATION OF ELEVATOR INSPECTORS - ASME QLE-1
  - GUIDE FOR INSPECTION OF ELEVATORS - A17.2
  - AMERICAN SOCIETY OF SAFETY ENGINEERS ASSOCIATION - PERSONNEL, HOISTS AND EMPLOYEE ELEVATORS ON CONSTRUCTION AND DEMOLITION OPERATIONS A10.4

**LIFE SAFETY LEGEND**



**G2 2ND LEVEL CODE PLAN**  
 1/8" = 1'-0"

**CONSULTANTS**

**MECHANICAL / ELECTRICAL / PLUMBING:**  
**WPE**  
 West Plains Engineering, Inc.  
 1750 Rand Road  
 Rapid City, South Dakota 57702  
 Phone: 605-345-7455

**STRUCTURAL:**  
**Albertson Engineering, Inc.**  
 2022 W. Main St., EC  
 Rapid City, South Dakota 57702  
 Phone: 605-345-9600

**ARCHITECT OF RECORD**

**A/E:**  
**Stone Group Architects**  
 600 E 7th Street  
 Sioux Falls, SD 57103  
 605-271-1144



**STAMP**

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

**Drawing Title**  
 2ND LEVEL LIFE SAFETY PLAN

**Approved:**

**Phase**  
 CONSTRUCTION DOCUMENTS

**FULLY SPRINKLERED**

**Project Title**  
 VA FM UPGRADE MENTAL HEALTH LOCK WARD

**Location**  
 FORT MEADE, SOUTH DAKOTA

**Issue Date** 08/29/22  
**Checked** JHK  
**Drawn** RMV/DAN

**Project Number**  
 VA #568-20-102  
 SGA #211937

**Building Number**  
 148

**Drawing Number**  
 GI-004

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GENERAL STRUCTURAL NOTES

GENERAL NOTES:

- STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND SITE DRAWINGS. CONSULT THESE DRAWINGS FOR SLEEVES, DEPRESSIONS AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.
- ALL DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.
- THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO ENSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING AND ACCOMPANYING FOOTINGS, GUYS OR TIE-DOWNS.
- ADDITIONAL OBSERVATIONS AS A RESULT OF REJECTION OF WORK COMPLETED AND/OR ADDITIONAL OBSERVATIONS DUE TO THE DEFICIENCIES IN WORK OBSERVED WILL BE AT THE EXPENSE OF THE CONTRACTOR.
- ALL STRUCTURAL SHOP DRAWINGS TO BE REVIEWED BY JOB SUPERINTENDENT IN ADDITION TO ALL PERSONNEL DEEMED NECESSARY BY CONTRACTOR PRIOR TO SUBMITTAL TO ENGINEER FOR APPROVAL.
- ALL SHOP DRAWINGS TO BE REVIEWED BY ALBERTSON ENGINEERING INC. SHALL HAVE ELECTRONIC COPIES PROVIDED TO ALBERTSON ENGINEERING INC. FOR REVIEW. AN ELECTRONIC MARKED SET OF THE SHOP DRAWINGS WILL BE RETURNED TO THE CONTRACTOR. NO ADDITIONAL HARD COPIES OF THE SHOP DRAWINGS NEED TO BE PROVIDED TO ALBERTSON ENGINEERING INC., ALTHOUGH OTHER PARTIES MAY REQUIRE HARD COPIES OF THE MARKED UP DRAWINGS. THESE REQUIREMENTS ARE IN ADDITION TO THE TYPICAL PROJECT SHOP DRAWING SUBMITTAL REQUIREMENTS STATED IN THE PROJECT SPECIFICATIONS.

DESIGN CODES:

- 2018 INTERNATIONAL BUILDING CODE.
- AISC 360-16 SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS.
- ASIS 1100-16 NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS.
- ASCE 7-16 MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES.
- SDI RD-2017 STANDARD FOR STEEL ROOF DECK.

DESIGN LOADS:

THE STRUCTURAL SYSTEM FOR THIS BUILDING HAS BEEN DESIGNED WITH THE FOLLOWING SUPERIMPOSED LOADINGS BASED ON A RISK CATEGORY II:

ROOF:	
SNOW LOAD	30 PSF + DRIFT
GROUND SNOW LOAD	45 PSF
SNOW EXPOSURE FACTOR	1.0
SNOW THERMAL FACTOR	1.0
SNOW IMPORTANCE FACTOR	1.0
DEAD LOAD (EXISTING)	20 PSF
DEAD LOAD (NEW)	10 PSF
LIVE LOAD	20 PSF (REDUCIBLE)
WIND:	
ULTIMATE WIND SPEED	111 MPH
EXPOSURE CATEGORY	C
INTERNAL PRESSURE COEFFICIENT	0.18
COMPONENT AND CLADDING PRESSURES	SEE TABLE ON SHEET S-003
SEISMIC:	
SEISMIC DESIGN CATEGORY	A
SITE CLASSIFICATION	D
DESIGN BASE SHEAR	0.01W
ANALYSIS PROCEDURE	
EQUIVALENT LATERAL FORCE PROCEDURE	

PENETRATIONS:

NO PENETRATIONS SHALL BE MADE IN ANY STRUCTURAL MEMBERS OTHER THAN THOSE LOCATED ON THESE DRAWINGS WITHOUT PREVIOUS APPROVAL OF THE ENGINEER.

STRUCTURAL STEEL:

- STEEL SHALL CONFORM TO ASTM A500 (Fy=46 KSI) FOR ALL H-SHAPES, AND ASTM A36 (Fy=36 KSI) FOR ALL OTHER MISCELLANEOUS SHAPES AND PLATES. STRUCTURAL TUBING SHALL CONFORM TO ASTM A500, GRADE B OR GRADE C (Fy=46 KSI). STRUCTURAL PIPE SHALL CONFORM TO ASTM A53, TYPE "E" OR "D" (Fy=35 KSI).
- STEEL SHALL CONFORM TO THE LATEST EDITION OF AISC SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS.
- ALL SHOP CONNECTIONS TO BE WELDED (UTILIZING E70XX ELECTRODES) AND FIELD CONNECTIONS TO BE BOLTED, UNLESS OTHERWISE NOTED. STEEL TO RECEIVE ONE SHOP COAT AND ONE FIELD TOUCH UP COAT OF APPROVED PAINT, EXCEPT WHERE GALVANIZED IS INDICATED ON THE DRAWINGS.
- WELDS FOR ALL EXPOSED STRUCTURAL STEEL SHALL BE GROUND SMOOTH UNLESS NOTED OTHERWISE.
- ALL BOLTED CONNECTIONS SHALL CONSIST OF 3/4" DIA. (MIN.) F3125 GR A325 OR F1852 BOLTS, UNLESS NOTED OTHERWISE.
  - A. FAILURE OF A BOLT OR NUT DURING INSTALLATION PROCESS RESULTING IN A CRACK IN THE BOLT OR NUT SHALL BE GROUNDS FOR REJECTION OF ALL THE FAILED BOLTS OR NUTS COMING FROM THE SAME LOT. IF THE DOCUMENTATION OF THE LOT OF ORIGIN FOR THE FAILED NUT(S) OR BOLT(S) DOES NOT EXIST, OR IS NOT PROVIDED, THEN ALL OF THE BOLT(S) OR NUT(S) SHALL BE ASSUMED TO COME FROM THE LOT CONTAINING THE FAILED NUT(S) OR BOLT(S).
- CONTRACTOR SHALL MAINTAIN ERECTION TOLERANCES OF STRUCTURAL STEEL AND ARCHITECTURALLY EXPOSED STRUCTURAL STEEL WITHIN AISC'S CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.

STEEL STUD CONNECTORS:

- SHEAR STUD CONNECTORS SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH AWS D1.1, "STRUCTURAL WELDING CODE" SECTION 7 - STUD WELDING. STUDS SHALL BE TYPE "B" HEADED STUDS, HAVING A MINIMUM TENSILE STRENGTH OF 60,000 PSI, AND SHALL BE OF LENGTH AND DIAMETER SHOWN ON THE DRAWINGS.

STEEL ROOF DECK:

- STEEL ROOF DECK SHALL BE 3" DEEP, 20 GAUGE PANTED WIDE RIBBED STEEL ROOF DECK (30-20GA) AND SHALL CONFORM TO THE PROVISIONS OF THE STEEL DECK INSTITUTE (SDI) SPECIFICATIONS FOR STEEL ROOF DECK.
- STEEL ROOF DECKS ARE DESIGNED AS HORIZONTAL DIAPHRAGMS AND SHALL BE ATTACHED TO SUPPORTS IN SUI PATTERNS AS INDICATED ON THE DRAWINGS.
- DECKING SHALL HAVE MINIMUM OF (3) SPANS.

COLD FORMED LIGHT GAUGE STRUCTURAL STEEL:

- STEEL STUD, TRACK, AND LINTEL MEMBERS SHALL BE OF THE TYPE SHOWN ON THE DRAWINGS AND IN THE SPECIFICATIONS AND SHALL CONFORM TO ASTM A633 STRUCTURAL QUALITY GRADE 33 FOR 18 GAUGE THICKNESS OR LESS, AND ASTM A633 STRUCTURAL QUALITY GRADE 50, CLASS 1 FOR 16 GAUGE OR GREATER. MEMBERS SHALL HAVE HOT DIPPED GALVANIZED COATINGS CONFORMING TO ASTM A82, CLASS G60.
- METAL STUD AND JOIST MEMBERS SHALL CONFORM TO MINIMUM AISI SECTIONS.
- ALL FRAMING MEMBERS SHALL BE CUT SQUARELY OR AT AN ANGLE AS REQUIRED TO FIT SQUARELY AGAINST ABUTTING MEMBERS. MEMBERS SHALL BE HELD FIRMLY IN PLACE UNTIL PROPERLY JOINED.
- JOINING OF STRUCTURAL MEMBERS SHALL BE MADE WITH SELF-DRILLING SCREWS OR WELDED. WIRE TYING OF FRAMING MEMBERS IN STRUCTURAL APPLICATIONS SHALL NOT BE PERMITTED.
- ATTACHMENT OF COLLATERAL MATERIALS TO STEEL MEMBERS SHALL BE MADE WITH SELF-DRILLING SCREWS OR HARDENED SCREW SHANK NAILS. METAL LATH MAY ALSO BE CONNECTED TO STEEL BY STAPLES OR OTHER FASTENERS, IF APPROVED BY LOCAL BUILDING CODES.
- STUDS SHALL SIT SQUARELY IN THE TOP AND BOTTOM RUNNER TRACK WITH ABUTMENT AGAINST TRACK WEBS. STUDS SHALL BE ALIGNED OR FLUSHED AND SECURELY FASTENED TO THE FLANGES OF BOTH TOP AND BOTTOM RUNNER TRACKS.
- VERTICAL SLIP CONNECTORS TO ALLOW THE VERTICAL MOVEMENT OF THE SUPPORTING STRUCTURE RELATIVE TO THE STUD SHALL BE VERTICAL SLIP CONNECTORS OR APPROVED EQUAL. CONNECTOR MANUFACTURER RESPONSIBLE FOR PROVIDING DOCUMENTATION THAT CONNECTOR HAS ADEQUATE CAPACITY FOR INSTALLATIONS IN WHICH THEY ARE TO BE INSTALLED, AS WELL AS SPECIFYING THE CONNECTION OF THEIR CONNECTOR TO BOTH THE METAL STUD AND SUPPORTING STRUCTURE.

SPECIAL INSPECTION AND TESTING:

- SEE DETAILED INSPECTION AND TESTING REQUIREMENTS AS INDICATED ON SHEET S-002.

SYMBOLS LEGEND

TRUE NORTH	PLAN NORTH ORIENTED 90° TO THE SHEET W/ MAGNETIC NORTH (OPTIONAL)	MATCH LINE INDICATOR	ELEVATION INDICATOR
COLUMN INDICATOR(S)	REVISION SYMBOL	FOOTING/PIER IDENTIFIER	BEAM INDICATOR(S)
DECK INDICATOR	20GA TYPE W3' MTL DECK	EXT ELEVATION INDICATOR	DETAIL BUBBLE INDICATOR
COLUMN/FND GRID INDICATOR	SLAB JOINT INDICATOR	SECTION INDICATOR	ELEVATION INDICATOR
SCALE: FULL			
DETAIL/SECTION/PLAN BLOCK TITLE INDICATOR			
HOLD DOWN INDICATOR	CORNER REINF INDICATOR	MASONRY PIER INDICATOR	WALL REINFORCING INDICATOR
SLOPE INDICATOR	LINTEL INDICATOR	MOMENT INDICATOR	RAFTER INDICATOR
WORK POINT INDICATOR	ASTERSISK INDICATOR	STEP INDICATOR	CONTINUOUS BEAM INDICATOR
			STEP TOP OF WALL INDICATOR

INDEX TO STRUCTURAL SHEETS

STRUCTURAL SHEET INDEX			
SHT NO	SHEET NAME	FND PKG	FRMG PKG
S-001	STRUCTURAL GENERAL NOTES		
S-002	BC INSPECTION TABLES		
S-003	WIND UPLIFT PLAN		
S-004	SNOW DRIFT PLAN		
S-005	EXISTING ROOF PLAN		
S-102	PENTHOUSE FRAMING PLAN		
S-201	DETAILS		
S-201	TYPICAL DETAILS		

NOTE: ANY DRAWINGS INCLUDED IN THE FRAMING PACKAGE CONTAINED WITHIN THIS SET ARE FOR INFORMATION PURPOSES ONLY AND ARE NOT INTENDED TO BE USED FOR CONSTRUCTION.

STRUCTURAL HATCH PATTERNS

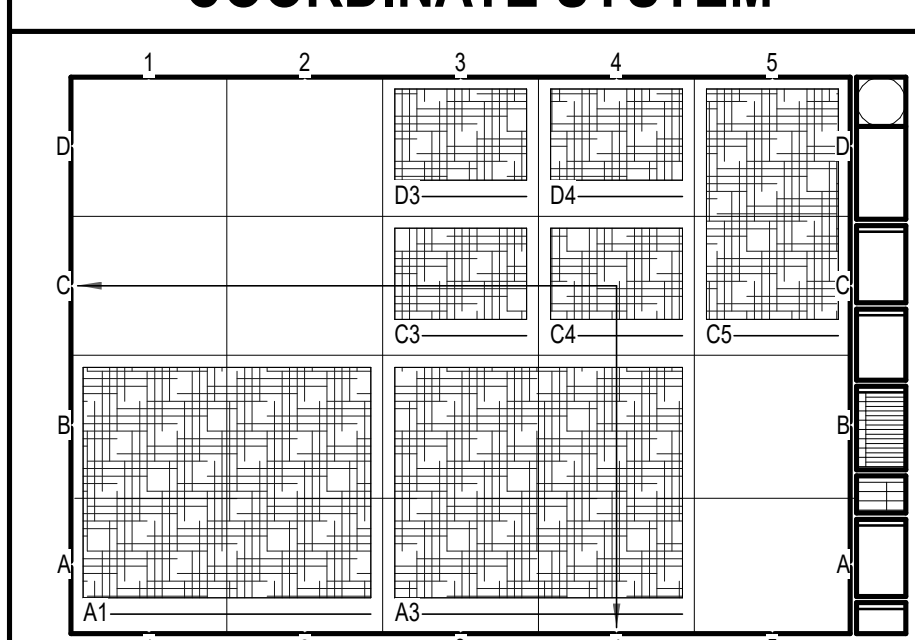

SHEET IDENTIFICATION

S	-	5	0	1
A	A	N	N	N

DISCIPLINE CHARACTER: S  
 CHARACTER: A A N N N  
 MODIFIER CHARACTER: -  
 SHEET TYPE DESIGNATOR: 5 0 1

- SHEET TYPE DESIGNATORS
- GENERAL (SYMBOLS, LEGEND, NOTES, ETC)
  - PLANS (HORIZONTAL VIEWS)
  - ELEVATIONS (VERTICAL VIEWS)
  - SECTIONS (SECTIONAL VIEWS)
  - LARGE SCALE VIEWS (PLANS, ELEV OR SECTIONS, NOT DETAILS)
  - DETAILS
  - SCHEDULES AND DIAGRAMS
  - USER DEFINED
  - USER DEFINED
  - 3D REPRESENTATIONS (ISOMETRICS, PERSPECTIVES, PHOTOGRAPHS)

COORDINATE SYSTEM



Revision#	Description	Date:

**CONSULTANTS**

MECHANICAL / ELECTRICAL / PLUMBING: <b>WPE</b> West Plains Engineering, Inc. 1750 Rand Road Rapid City, South Dakota 57702 Phone: 605-349-7465	STRUCTURAL: <b>Albertson Engineering, Inc.</b> Albertson Engineering, Inc. 2302 W. Main St., E.C. Rapid City, South Dakota 57702 Phone: 605-343-9609
---	---

**ARCHITECT OF RECORD**

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Sioux Falls, SD 57103  
605-271-1144

**STAMP**

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title: **STRUCTURAL GENERAL NOTES**

Phase: **CONSTRUCTION DOCUMENTS**

Project Title: **VA FM UPGRADE MENTAL HEALTH LOCK WARD**

Project Number: **VA #VA #568-20-102 SGA #211937**

Building Number: **148**

Location: **FORT MEADE, SOUTH DAKOTA**

Issue Date: **08/19/2022**

Checked: **DEL**

Drawn: **JAB**

Drawing Number: **S-001**

Approved: \_\_\_\_\_

Scale: FULL

TABLE N5.4-1 INSPECTION TASKS PRIOR TO WELDING		
INSPECTION TASKS PRIOR TO WELDING	INSPECTION INTERVAL	REQUIRED ON PROJECT
WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS	P	YES
WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE	P	YES
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	P	YES
MATERIAL IDENTIFICATION (TYPE/GRADE)	O	YES
WELDER IDENTIFICATION SYSTEM <sup>14</sup>	O	YES
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)		
• JOINT PREPARATION		
• DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)	O	YES
• CLEANLINESS (CONDITION OF STEEL SURFACES)		
• TACKLING (TACK WELD QUALITY AND LOCATION)		
FIT-UP OF C/J GROOVE WELDS OF HSS T-, Y- AND K-JOINTS WITHOUT BACKING		
• JOINT PREPARATION		
• DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)	P	YES
• CLEANLINESS (CONDITION OF STEEL SURFACES)		
• TACKLING (TACK WELD QUALITY AND LOCATION)		
CONFIGURATION AND FINISH OF ACCESS HOLES	O	YES
FIT-UP OF FILLET WELDS		
• DIMENSIONS (ALIGNMENT, GAPS AT ROOT)	O	YES
• CLEANLINESS (CONDITION OF STEEL SURFACES)		
• TACKLING (TACK WELD QUALITY AND LOCATION)		
CHECK WELDING EQUIPMENT	O	YES

<sup>14</sup> THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE.

TABLE N5.4-2 INSPECTION TASKS DURING WELDING		
INSPECTION TASKS DURING WELDING	INSPECTION INTERVAL	REQUIRED ON PROJECT
USE OF QUALIFIED WELDERS	O	YES
CONTROL AND HANDLING OF WELDING CONSUMABLES	O	YES
• PACKAGING		
• EXPOSURE CONTROL		
NO WELDING OVER CRACKED TACK WELDS	O	YES
ENVIRONMENTAL CONDITIONS	O	YES
• WIND SPEED WITHIN LIMITS		
• PRECIPITATION AND TEMPERATURE		
WPS FOLLOWED		
• SETTINGS ON WELDING EQUIPMENT	O	YES
• TRAVEL SPEED		
• SELECTED WELDING MATERIALS		
• SHIELDING GAS TYPE/FLOW RATE		
• PREHEAT APPLIED		
• INTERPASS TEMPERATURE MAINTAINED (MIN/MAX)		
• PROPER POSITION (F, V, H, OH)		
WELDING TECHNIQUES		
• INTERPASS AND FINAL CLEANING	O	YES
• EACH PASS WITHIN PROFILE LIMITATIONS		
• EACH PASS MEETS QUALITY REQUIREMENTS		
PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	P	YES

AISC 360-16 TABLE N5.4-3 INSPECTION TASKS AFTER WELDING		
INSPECTION TASKS AFTER WELDING	INSPECTION INTERVAL	REQUIRED ON PROJECT
WELDS CLEANED	O	YES
SIZE, LENGTH AND LOCATION OF WELDS	P	YES
WELDS MEET VISUAL ACCEPTANCE CRITERIA:		
• CRACK PROHIBITION		
• WELDBASE-METAL FUSION	P	YES
• CRATER CROSS SECTION		
• WELD PROFILES		
• WELD SIZE		
• UNDERCUT		
• POROSITY		
ARC STRIKES	P	YES
k-AREA <sup>15</sup>	P	YES
WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES <sup>16</sup>	P	YES
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	P	YES
REPAIR ACTIVITIES	O	YES
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	O	YES
NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR	O	YES

<sup>15</sup> WHEN WELDING OF DOUBLE PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE k-AREA, VISUALLY INSPECT THE WEB k-AREA FOR CRACKS WITHIN 3" (75mm) OF THE WELD.

<sup>16</sup> AFTER ROLLED HEAVY SHAPES (SEE SECTION A3.1c) AND BUILT-UP HEAVY SHAPES (SEE SECTION A3.1d) ARE WELDED, VISUALLY INSPECT THE WELD ACCESS HOLE FOR CRACKS.

TABLE 1.1 INSPECTION OR EXECUTION TASKS PRIOR TO DECK PLACEMENT		
TASK	QC	QA
A. VERIFY COMPLIANCE OF MATERIALS (DECK AND ALL DECK ACCESSORIES) WITH CONSTRUCTION DOCUMENTS, INCLUDING PROFILES, MATERIAL PROPERTIES, AND BASE METAL THICKNESS	PERFORM	PERFORM
B. DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES	PERFORM	PERFORM

TABLE 1.2 INSPECTION OR EXECUTION TASKS AFTER DECK PLACEMENT		
TASK	QC	QA
A. VERIFY COMPLIANCE OF DECK AND ALL DECK ACCESSORIES INSTALLATION WITH CONSTRUCTION DOCUMENTS	PERFORM	PERFORM
B. VERIFY DECK MATERIALS ARE REPRESENTED BY THE MILL CERTIFICATIONS THAT COMPLY WITH THE CONSTRUCTION DOCUMENTS	N/A	PERFORM
C. DOCUMENT ACCEPTANCE OR REJECTION OF INSTALLATION OF DECK AND DECK ACCESSORIES	PERFORM	PERFORM

TABLE 1.3 INSPECTION OR EXECUTION TASKS PRIOR TO WELDING		
TASK	QC	QA
A. WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE	OBSERVE	OBSERVE
B. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	OBSERVE	OBSERVE
C. MATERIAL IDENTIFICATION (TYPE/GRADE)	OBSERVE	OBSERVE
D. CHECK WELDING EQUIPMENT	OBSERVE	OBSERVE

TABLE 1.4 INSPECTION OR EXECUTION TASKS DURING WELDING		
TASK	QC	QA
A. USE OF QUALIFIED WELDERS	OBSERVE	OBSERVE
B. CONTROL AND HANDLING OF WELDING CONSUMABLES	OBSERVE	OBSERVE
C. ENVIRONMENTAL CONDITIONS (WIND SPEED, MOISTURE, TEMPERATURE)	OBSERVE	OBSERVE
D. WPS FOLLOWED	OBSERVE	OBSERVE

TABLE 1.5 INSPECTION OR EXECUTION TASKS AFTER WELDING		
TASK	QC	QA
A. VERIFY SIZE & LOCATION OF WELDS, INCLUDING SUPPORT, SIDELAP, & PERIMETER WELDS	PERFORM	PERFORM
B. WELDS MEET VISUAL ACCEPTANCE CRITERIA	PERFORM	PERFORM
C. VERIFY REPAIR ACTIVITIES	PERFORM	PERFORM
D. DOCUMENT ACCEPTANCE OR REJECTION OF WELDS	PERFORM	PERFORM

TABLE 1.6 INSPECTION OR EXECUTION TASKS PRIOR TO MECHANICAL FASTENING		
TASK	QC	QA
A. MANUFACTURER INSTALLATION INSTRUCTIONS AVAILABLE FOR MECHANICAL FASTENERS	OBSERVE	OBSERVE
B. PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATION	OBSERVE	OBSERVE
C. PROPER STORAGE FOR MECHANICAL FASTENERS	OBSERVE	OBSERVE

TABLE 1.7 INSPECTION OR EXECUTION TASKS DURING MECHANICAL FASTENING		
INSPECTION TASKS DURING MECHANICAL FASTENING	QC	QA
A. FASTENERS ARE POSITIONED AS REQUIRED	OBSERVE	OBSERVE
B. FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS	OBSERVE	OBSERVE

TABLE 1.8 INSPECTION OR EXECUTION TASKS AFTER MECHANICAL FASTENING		
INSPECTION TASKS AFTER MECHANICAL FASTENING	QC	QA
A. CHECK SPACING, TYPE, AND INSTALLATION OF SUPPORT FASTENERS	PERFORM	PERFORM
B. CHECK SPACING, TYPE, AND INSTALLATION OF SIDELAP FASTENERS	PERFORM	PERFORM
C. CHECK SPACING, TYPE, AND INSTALLATION OF PERIMETER FASTENERS	PERFORM	PERFORM
D. VERIFY REPAIR ACTIVITIES	PERFORM	PERFORM
E. DOCUMENT ACCEPTANCE OR REJECTION OF MECHANICAL FASTENERS	PERFORM	PERFORM

NOTE:  
 • QUALITY CONTROL (QC) SHALL BE PROVIDED BY THE INSTALLER  
 • QUALITY ASSURANCE (QA) SHALL BE PROVIDED BY THE CERTIFIED TESTING AGENCY

**SPECIAL INSPECTION AND TESTING:**

- SPECIAL INSPECTION AND MINIMUM TESTING SHALL BE PERFORMED IN ACCORDANCE WITH 2018 IBC AND ALL REFERENCED MATERIALS AND TABLES.
- INSPECTION SHALL BE PROVIDED BY AN INDEPENDENT TESTING AGENCY HIRED AT THE CONTRACTOR'S EXPENSE. AGENCY INSPECTION PERSONNEL SHALL MEET THE INSPECTOR QUALIFICATIONS FOR EACH MATERIAL ITEM AS INDICATED IN THE SPECIFICATIONS.
- ANY MATERIAL OR PLACEMENT DEVIATIONS FROM MINIMUMS SHOWN ON THE DRAWINGS OR IN SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- IN ADDITION TO THE IBC INSPECTION TABLES, THE INSPECTOR SHALL VERIFY THAT ALL STEEL MAINTAIN ERECTION TOLERANCE OF STRUCTURAL STEEL AND ARCHITECTURALLY EXPOSED STRUCTURAL STEEL WITHIN AISC'S CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.
- TESTING - ANY FAILED FIELD TEST SHALL BE REPORTED TO ALBERTSON ENGINEERING INC. IMMEDIATELY.

Vertical scale on the left side of the page, with labels A through G and corresponding measurements in inches and feet.

Vertical scale on the right side of the page, with labels A through G and corresponding measurements in inches and feet.

Revision#	Description	Date:

**CONSULTANTS**

<b>MECHANICAL / ELECTRICAL / PLUMBING:</b>  West Plains Engineering, Inc. 1750 Rand Road Rapid City, South Dakota 57702 Phone: 605-349-7465	<b>STRUCTURAL:</b>  Albertson Engineering, Inc. 2022 W. Main St., 8C Rapid City, South Dakota 57702 Phone: 605-343-9609
--	--

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 605-271-1144

**STAMP**

**Office of Construction and Facilities Management**

**VA** U.S. Department of Veterans Affairs

Drawing Title  
**IBC INSPECTION TABLES**

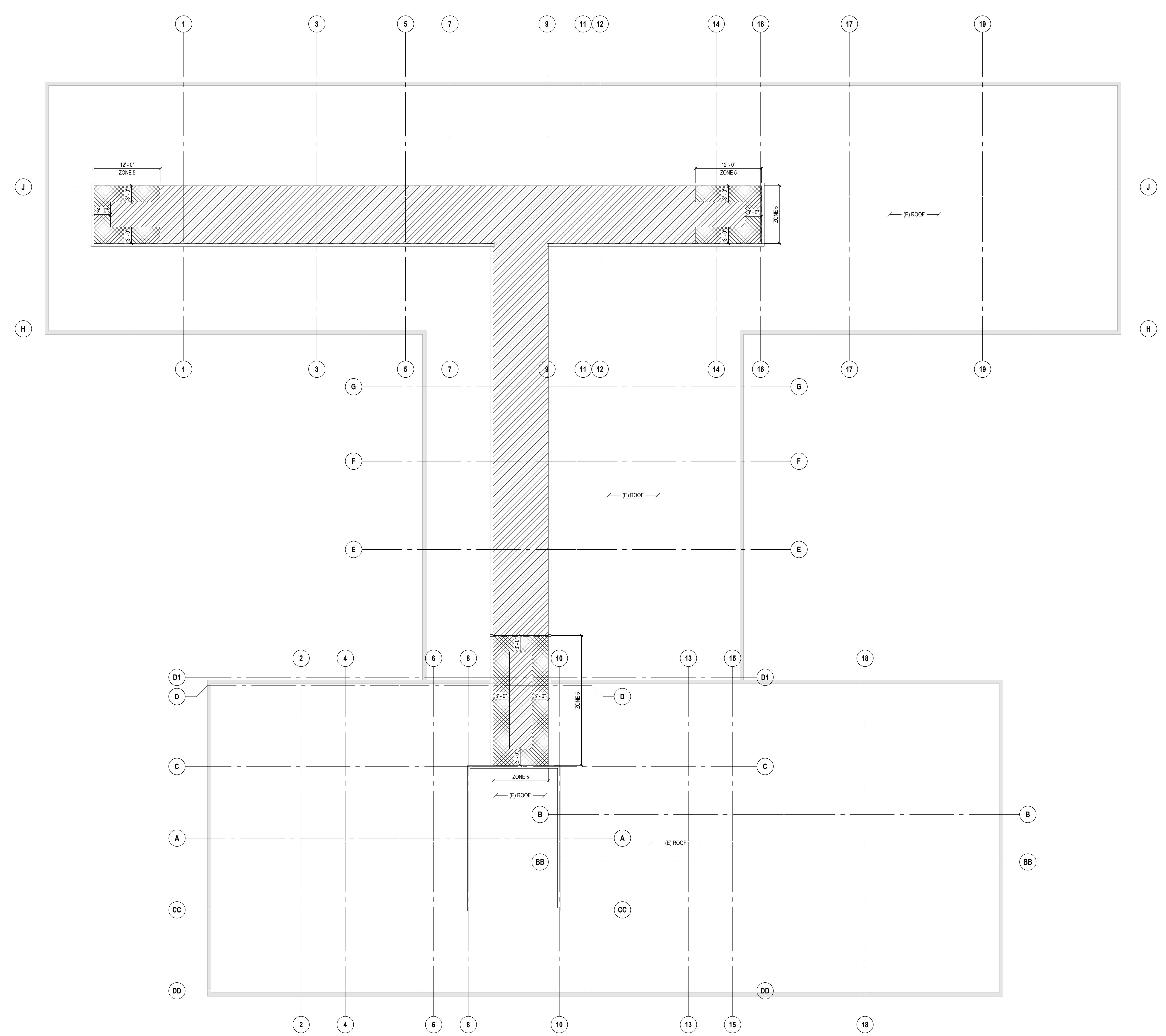
Approved: \_\_\_\_\_

Phase  
**CONSTRUCTION DOCUMENTS**

FULLY SPRINKLERED

Project Title VA FM UPGRADE MENTAL HEALTH LOCK WARD	Project Number VA #VA #568-20-102 SGA #211937
Location FORT MEADE, SOUTH DAKOTA	Building Number 148
Issue Date 08/19/2022	Checked DEL
Drawn JAB	Drawing Number S-002

SHEET NOTES



SCHEDULES

**WIND UPLIFT SCHEDULE**  
TYPICAL FLAT ROOF

HATCH	WIDTH	PRESSURE (PSF)			
		EFFECTIVE WIND AREA (SQ FT)			
		0 - 20	20 - 50	50 - 100	> 100
REMAINDER		41	39	35	32
SEE PLAN		56	51	44	39

**ADDITIONAL REMARKS:**  
1. WIND UPLIFT PRESSURES SHOWN ARE GROSS PRESSURES FOR DESIGN OF COMPONENTS AND CLADDING (FACTORED).

**WIND COMPONENTS & CLADDING SCHEDULE**  
WALLS

ZONE		PRESSURE (PSF)			
		EFFECTIVE WIND AREA (SQ FT)			
		0 - 20	20 - 50	50 - 100	> 100
ZONE 4	PRESSURE	18	17	16	16
	SUCTION	19	18	17	17
ZONE 5	PRESSURE	18	17	16	16
	SUCTION	24	22	20	18

**ADDITIONAL REMARKS:**  
1. WIND PRESSURES SHOWN ARE SERVICE PRESSURES (UNFACTORED) FOR DESIGN OF COMPONENTS AND CLADDING, AND INCLUDE THE WIND IMPORTANCE FACTOR OF 1.15 FOR THIS PROJECT.

1  
5-003  
**WIND UPLIFT PLAN**  
SCALE: 1/8" = 1'-0"

**CONSULTANTS**

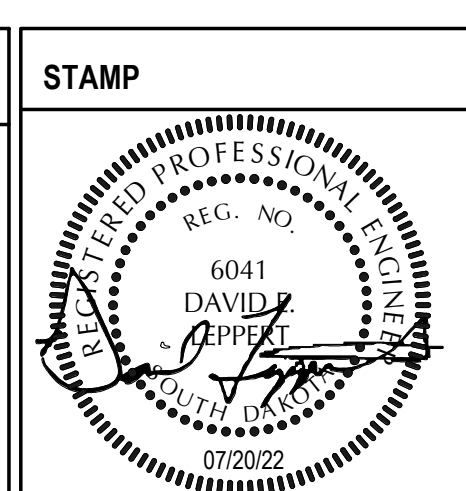
**MECHANICAL / ELECTRICAL / PLUMBING:**  
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West Plains Engineering, Inc.  
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Rapid City, South Dakota 57702  
Phone: 605-340-7455

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**STONE GROUP ARCHITECTS**



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

Drawing Title  
**WIND UPLIFT PLAN**

Approved:

Phase  
**CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
VA FM UPGRADE MENTAL HEALTH LOCK WARD

Location  
FORT MEADE, SOUTH DAKOTA

Issue Date  
08/19/2022

Checked  
DEL

Drawn  
JAB

Project Number  
VA #VA #568-20-102  
SGA #211937

Building Number  
148

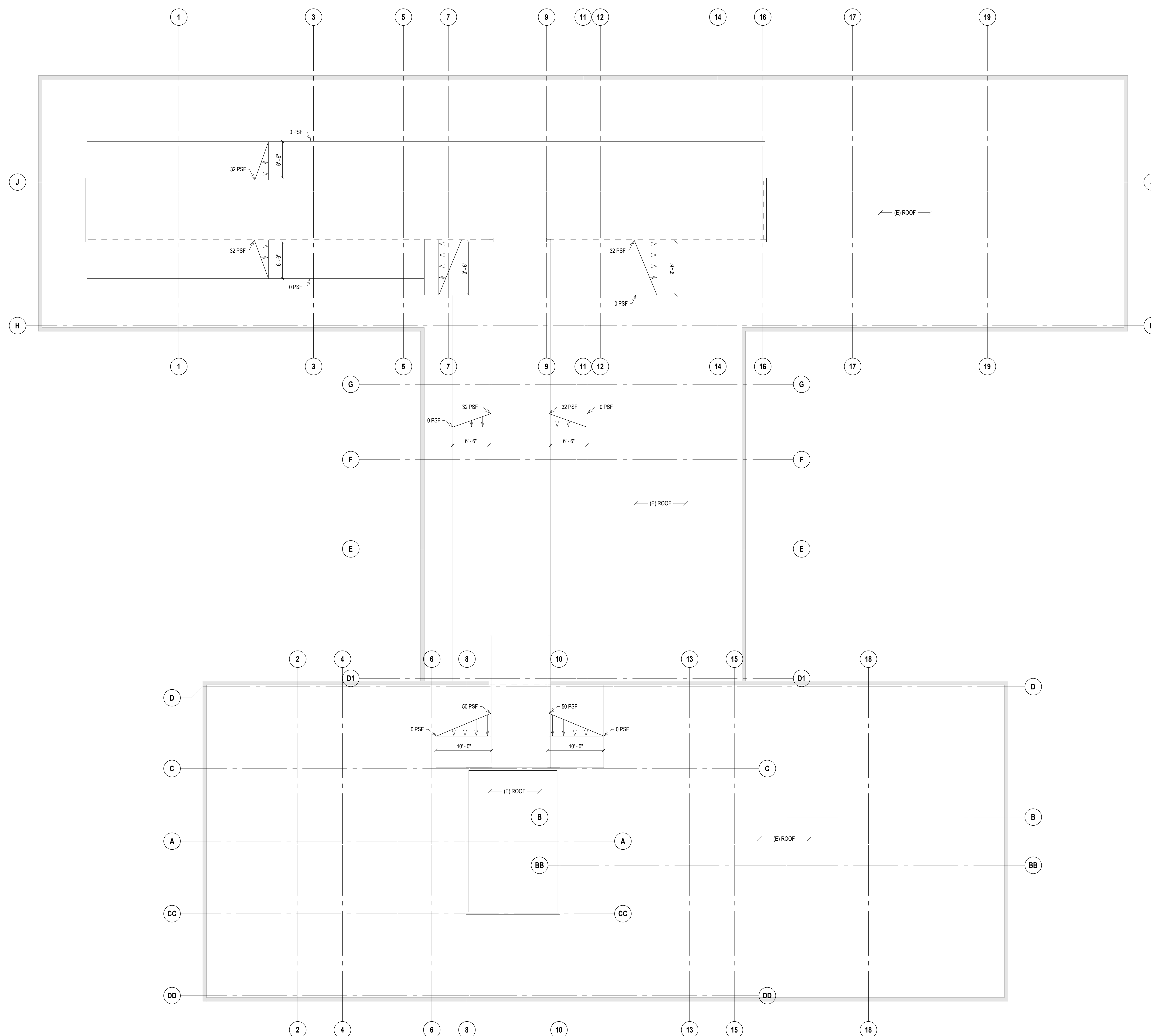
Drawing Number  
S-003



**SHEET NOTES**

**SNOW DRIFT PLAN NOTES**

- SNOW DRIFT LOADS SHOWN ARE IN ADDITION TO UNIFORM SNOW LOADS INDICATED IN THE STRUCTURAL GENERAL NOTES ON SHEET S-001.
- DRIFT LOADS ARE SHOWN FOR DRIFT RESULTING FROM NEW CONSTRUCTION. SEE ORIGINAL DRAWINGS FOR DRIFT LOADS (IF APPLICABLE) ON EXISTING ROOFS.



**SNOW DRIFT PLAN**  
SCALE: 1/8" = 1'-0"

Revision#	Description	Date:

**CONSULTANTS**

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**Office of Construction and Facilities Management**

**VA** U.S. Department of Veterans Affairs

Drawing Title  
**SNOW DRIFT PLAN**

Phase  
**CONSTRUCTION DOCUMENTS**

Project Title  
**VA FM UPGRADE MENTAL HEALTH LOCK WARD**

Location  
**FORT MEADE, SOUTH DAKOTA**

Issue Date  
 08/19/2022

Checked  
 DEL

Drawn  
 JAB

Project Number  
 VA #VA #568-20-102  
 SGA #211937

Building Number  
 148

Drawing Number  
**S-004**

**SHEET NOTES**

**EXISTING ROOF FRAMING PLAN NOTES**

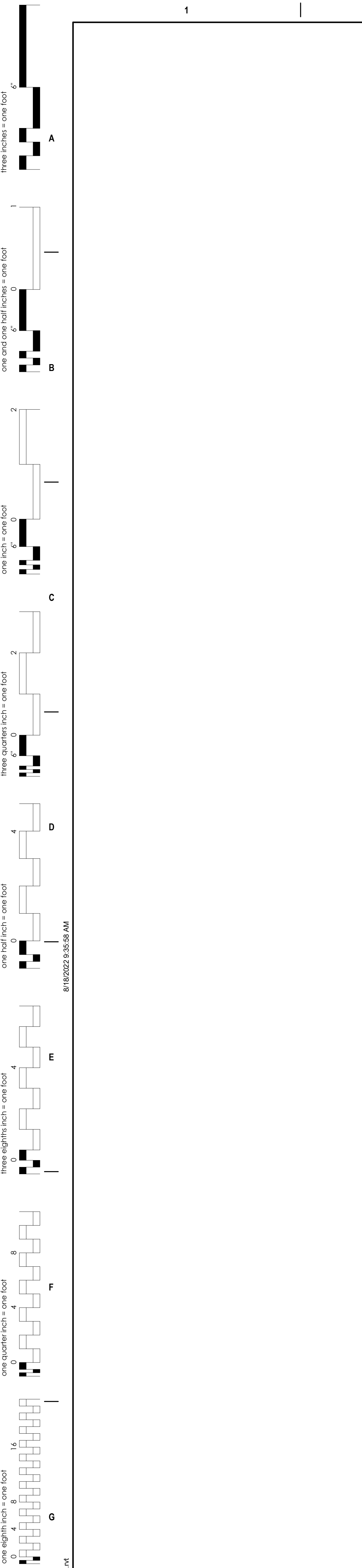
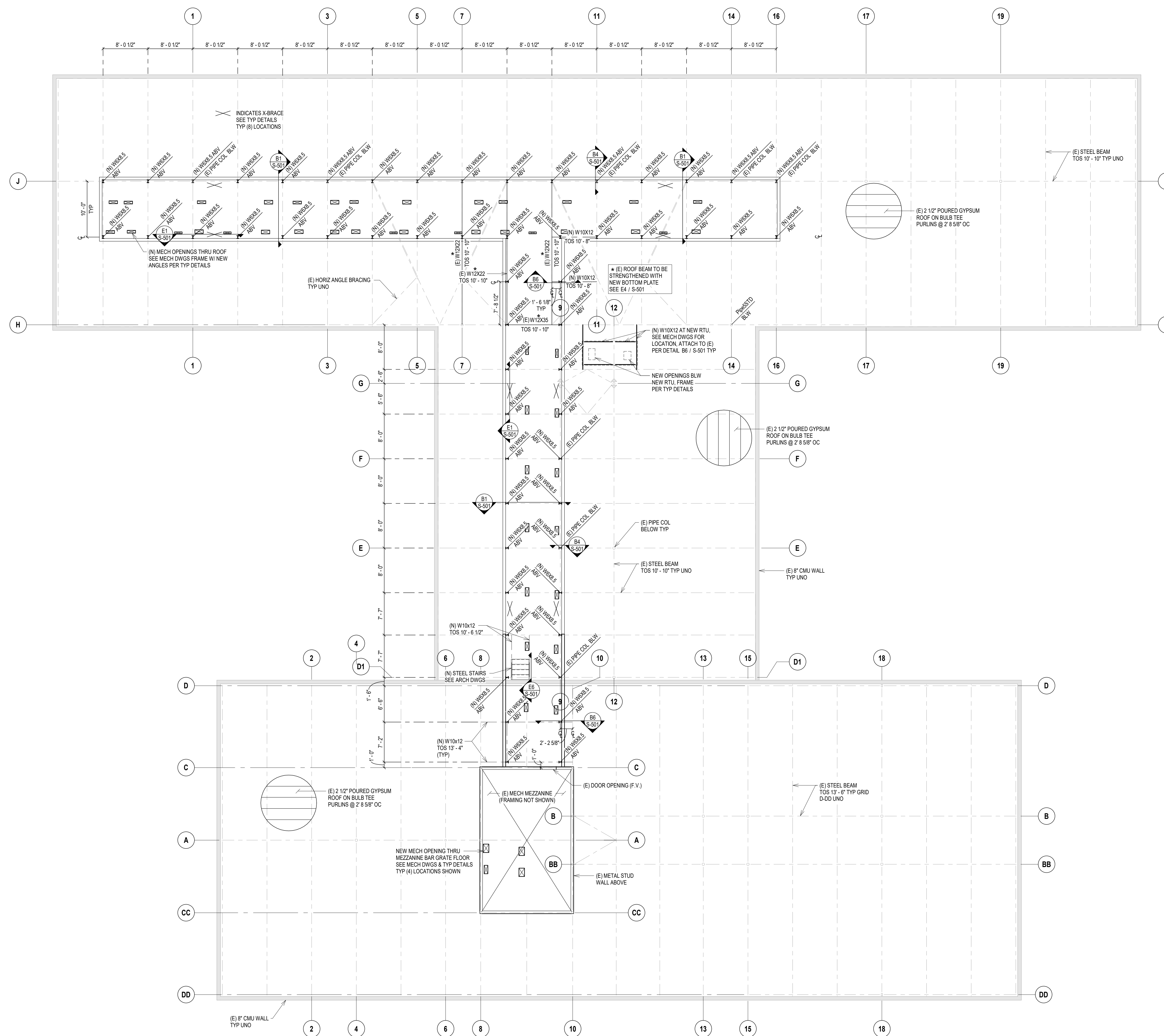
- SEE SHEET S-001 FOR STRUCTURAL GENERAL NOTES.
- VERIFY ALL DIMENSIONS & ELEVATIONS WITH ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS BEFORE CONSTRUCTION COMMENCES.
- ELEVATIONS ON THE STRUCTURAL DRAWINGS REFER TO THE TOP OF CONCRETE REFERENCE ELEVATION SET AT 100'-0" (MAIN FLOOR EXISTING).
- EXISTING ROOF DECK IS A 2 1/2" POURED GYPSUM ROOF ON STEEL BULB TEE PURLINS SPACED AT ROUGHLY 2'-3 5/8" OC.
- UNLESS OTHERWISE NOTED OR DETAILED, ALL NEW COLUMN TO EXISTING BEAM AND/OR COLUMN CONNECTIONS SHALL BE FIELD WELDED. SEE REFERENCED DETAILS.
- UNLESS OTHERWISE NOTED OR DETAILED, ALL NEW BEAM TO EXISTING BEAM CONNECTIONS SHALL BE SINGLE ANGLE CONNECTIONS WITH BOLTED CONNECTION TO NEW AND FIELD WELDED CONNECTION TO EXISTING. PROVIDE SHORT SLOTTED HOLES IN NEW TO ALLOW FOR ERECTION FIT-UP. SEE SINGLE ANGLE CONNECTION SCHEDULE.
- SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR OPENINGS THRU EXISTING ROOF FRAME OPENINGS WITH ANGLES PER TYPICAL DETAILS. OPENING LOCATIONS SHALL BE VERIFIED AND ADJUSTED TO AVOID EXISTING STEEL SUBPURLINS AND STEEL BEAMS. CUTTING OF SUBPURLINS AND/OR STEEL BEAMS IS NOT ALLOWED.
- SEE ARCHITECTURAL DRAWINGS FOR METAL WALL PANELS.
- TYPICAL METAL STUD WALLS SHALL BE 4" - 18 GAUGE METAL STUDS (#00510-43) @ 16" OC UNLESS OTHERWISE NOTED OR DETAILED. PROVIDE THE FOLLOWING MINIMUM HEADERS AND JAMBS AT OPENINGS:
 

CLEAR OPENINGS LESS THAN 4'-0"	HEADERS (2) 6" x 18GA	JAMBS (1) JACK + (1) KING
--------------------------------	-----------------------	---------------------------
- EXTERIOR WALLS SHALL BE SHEATHED WITH EXTERIOR GYPSUM BOARD SHEATHING PER ARCHITECTURAL DRAWINGS. ATTACH WITH #8 SELF TAPPING FLAT HEAD SCREWS @ 12" OC, UNLESS OTHERWISE NOTED.

**SHEET LEGEND**

INDICATES X-BRACE IN FRAMING ABOVE  
SEE TYPICAL DETAILS AND E1 / S-001

**SCHEDULES**



**EXISTING ROOF FRAMING PLAN**  
SCALE: 1/8" = 1'-0"

**CONSULTANTS**

**MECHANICAL / ELECTRICAL / PLUMBING:**  
**WPE**  
 West Plains Engineering, Inc.  
 1750 Rand Road  
 Rapid City, South Dakota 57702  
 Phone: 605-340-7465

**STRUCTURAL:**  
**Albertson Engineering, Inc.**  
 2022 W. Main St., 8C  
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 Phone: 605-343-8609

**ARCHITECT OF RECORD**

**A/E:**  
**Stone Group Architects**  
 600 E 7th Street  
 Sioux Falls, SD 57103  
 605-271-1144

**STONE GROUP ARCHITECTS**

**STAMP**

DAVID  
 6041  
 07/20/22

**Office of Construction and Facilities Management**

**VA** U.S. Department of Veterans Affairs

Drawing Title  
**EXISTING ROOF PLAN**

Phase  
**CONSTRUCTION DOCUMENTS**

Approved:

Project Title  
**VA FM UPGRADE MENTAL HEALTH LOCK WARD**

Location  
**FORT MEADE, SOUTH DAKOTA**

Issue Date  
**08/19/2022**

Checked  
**DEL**

Drawn  
**JAB**

Project Number  
**VA #VA #568-20-102 SGA #211937**

Building Number  
**148**

Drawing Number  
**S-101**

**SHEET NOTES**

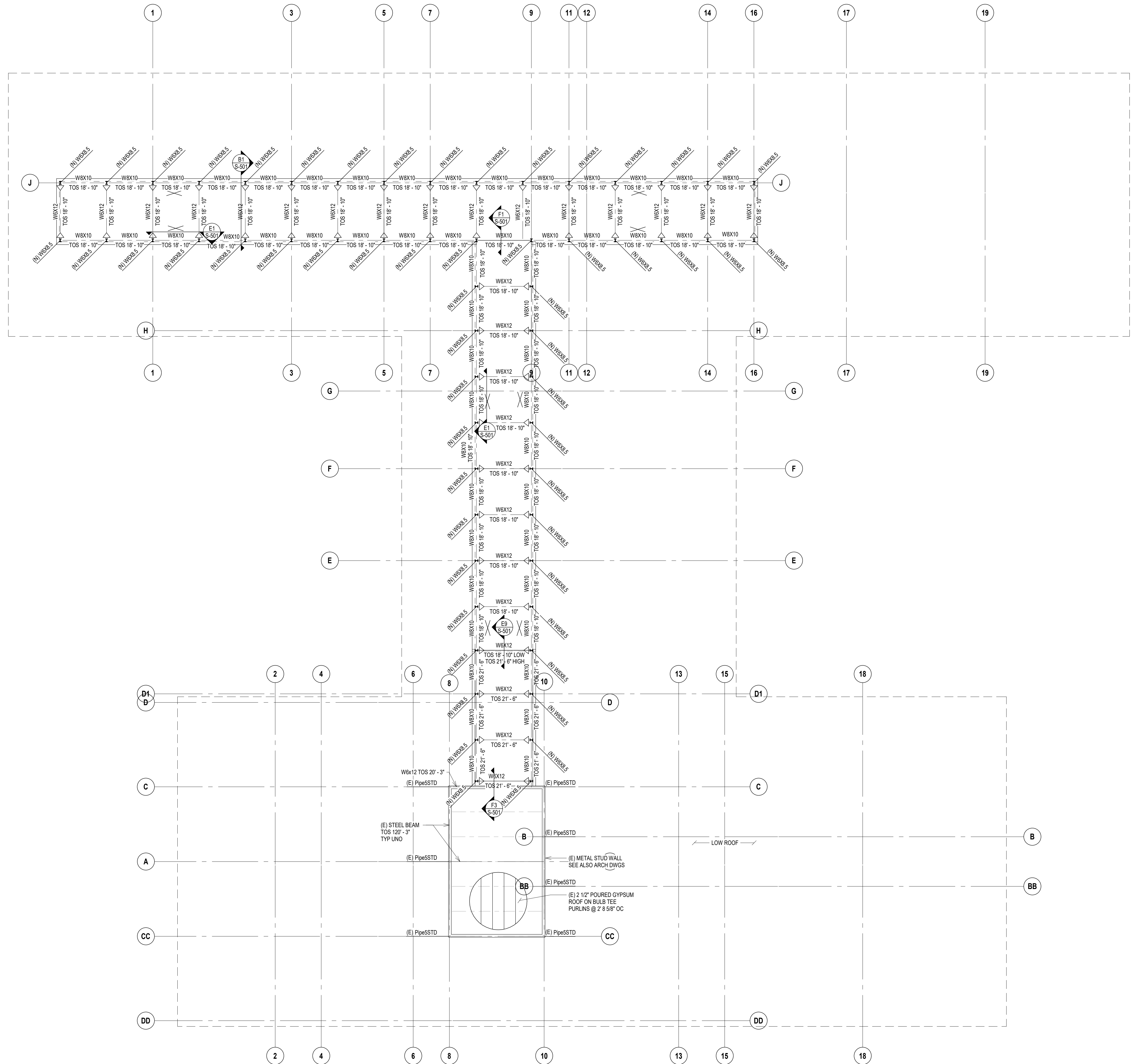
- PENTHOUSE ROOF FRAMING PLAN NOTES**
- SEE SHEET S-401 FOR STRUCTURAL GENERAL NOTES.
  - VERIFY ALL DIMENSIONS & ELEVATIONS WITH ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS BEFORE CONSTRUCTION COMMENCES.
  - ELEVATIONS ON THE STRUCTURAL DRAWINGS REFER TO THE TOP OF CONCRETE REFERENCE ELEVATION SET AT 100'-0" (MAIN FLOOR EXISTING).
  - TYPICAL METAL ROOF DECKING SHALL BE 3/16" GA. PAINTED ROOF DECK ATTACH TO SUPPORTS WITH #12 TEK SCREWS IN A STD STANDARD PATTERN AS FOLLOWS:  
300" WITH (3) #10 TEK SHELFP FASTENERS UNO.
  - UNLESS OTHERWISE NOTED OR DETAILED, ALL EAM TO COLUMN CONNECTIONS FOR W8 BEAMS SHALL BE END PLATE CONNECTIONS AND FOR W8 BEAMS SHALL BE SINGLE ANGLE CONNECTIONS. SEE REFERENCED DETAILS AND SINGLE ANGLE CONNECTION SCHEDULE.
  - SEE SHEET S-401 FOR TYPICAL ROOF FRAMING RELATED DETAILS AND SCHEDULES.
  - SEE ARCHITECTURAL DRAWINGS FOR METAL WALL PANELS.
  - SEE TYPICAL DETAILS FOR SUPPORT FRAMING AROUND OPENINGS IN WALL PANELS FOR LOUVERS OR DOORWAYS.
  - SEE S-101 FOR METAL STUD WALL REQUIREMENTS.

**SHEET LEGEND**

- INDICATES X-BRACE IN FRAMING ABOVE SEE TYPICAL DETAILS AND E1 / S-501
- INDICATES X-BRACE IN FRAMING BELOW SEE TYPICAL DETAILS AND B8 / S-501

**SCHEDULES**

MECHANICAL / ELECTRICAL / PLUMBING:		STRUCTURAL:	
<b>WPE</b> West Plains Engineering, Inc. 1750 Rand Road Rapid City, South Dakota 57702 Phone: 605-340-7465		Albertson Engineering, Inc. 2022 W. Main St., EC Rapid City, South Dakota 57702 Phone: 605-343-8609	



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TRUE NORTH

**PENTHOUSE ROOF FRAMING PLAN**  
SCALE: 1/8" = 1'-0"  
REFERENCED FROM:

8/16/2022 9:35:59 AM

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**CONSULTANTS**

MECHANICAL / ELECTRICAL / PLUMBING:  
**WPE**  
 West Plains Engineering, Inc.  
 1750 Rand Road  
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STRUCTURAL:  
 Albertson Engineering, Inc.  
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 Phone: 605-343-8609

**ARCHITECT OF RECORD**

A/E:  
 Stone Group Architects  
 600 E 7th Street  
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 605-271-1144

**STONE GROUP ARCHITECTS**

**STAMP**

PROFESSIONAL SEAL  
 STATE OF SOUTH DAKOTA  
 REG. NO. 6041  
 DAVIS  
 8/15/2022

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

Drawing Title  
**PENTHOUSE FRAMING PLAN**

Phase  
**CONSTRUCTION DOCUMENTS**

Project Title  
**VA FM UPGRADE MENTAL HEALTH LOCK WARD**

Location  
**FORT MEADE, SOUTH DAKOTA**

Issue Date  
 08/19/2022

Checked  
 DEL

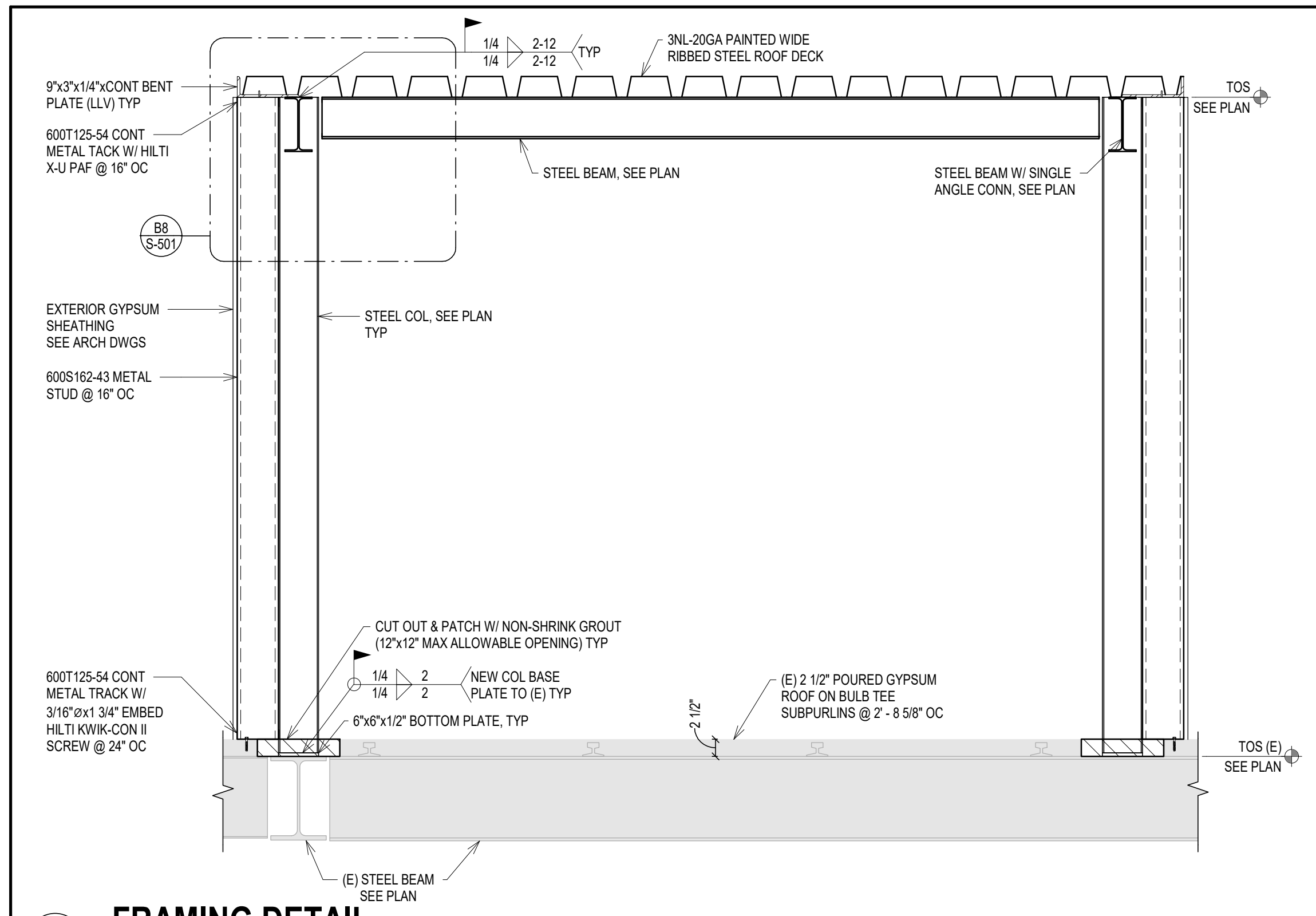
Drawn  
 JAB

Project Number  
**VA #VA #568-20-102  
 SGA #211937**

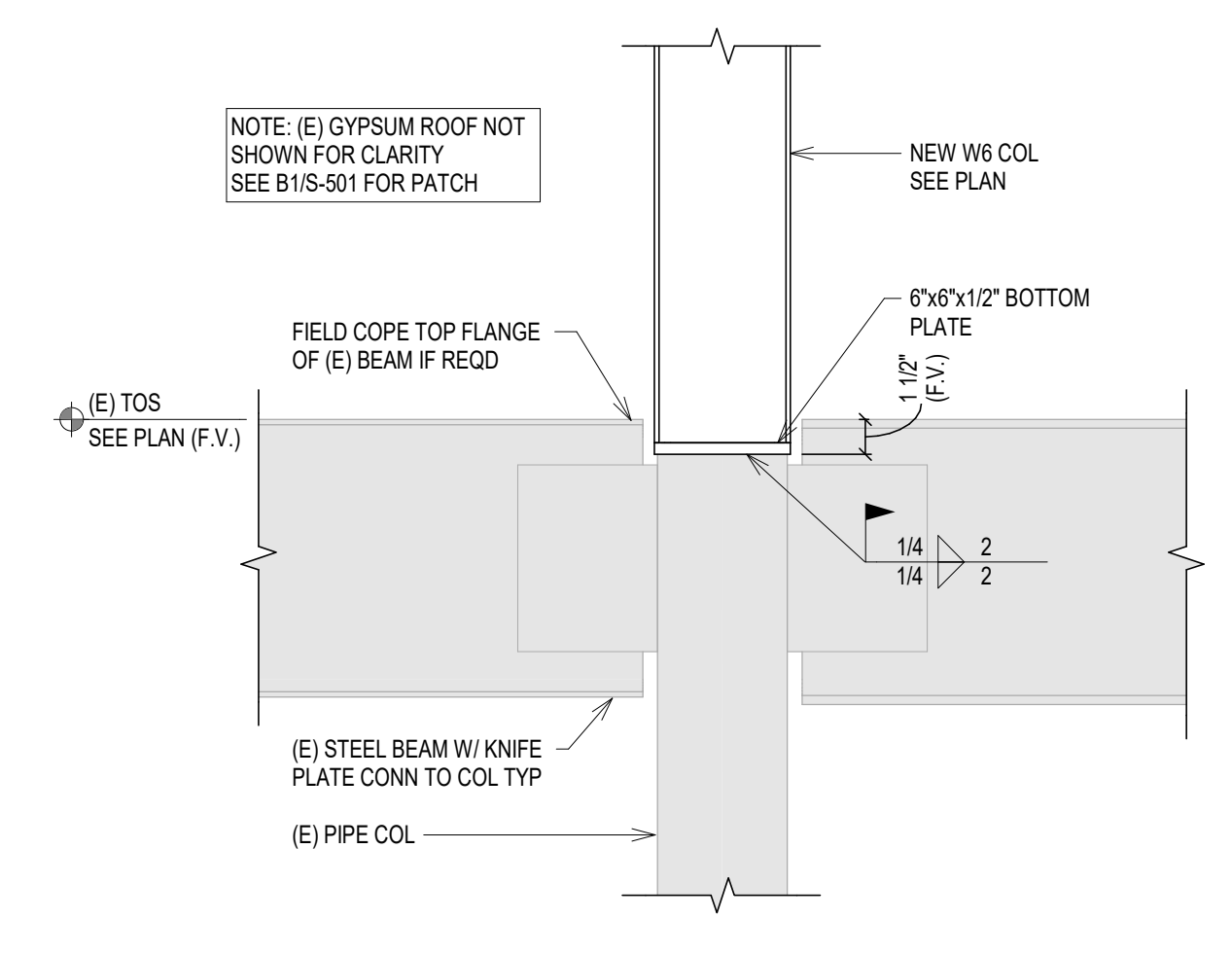
Building Number  
**148**

Drawing Number  
**S-102**

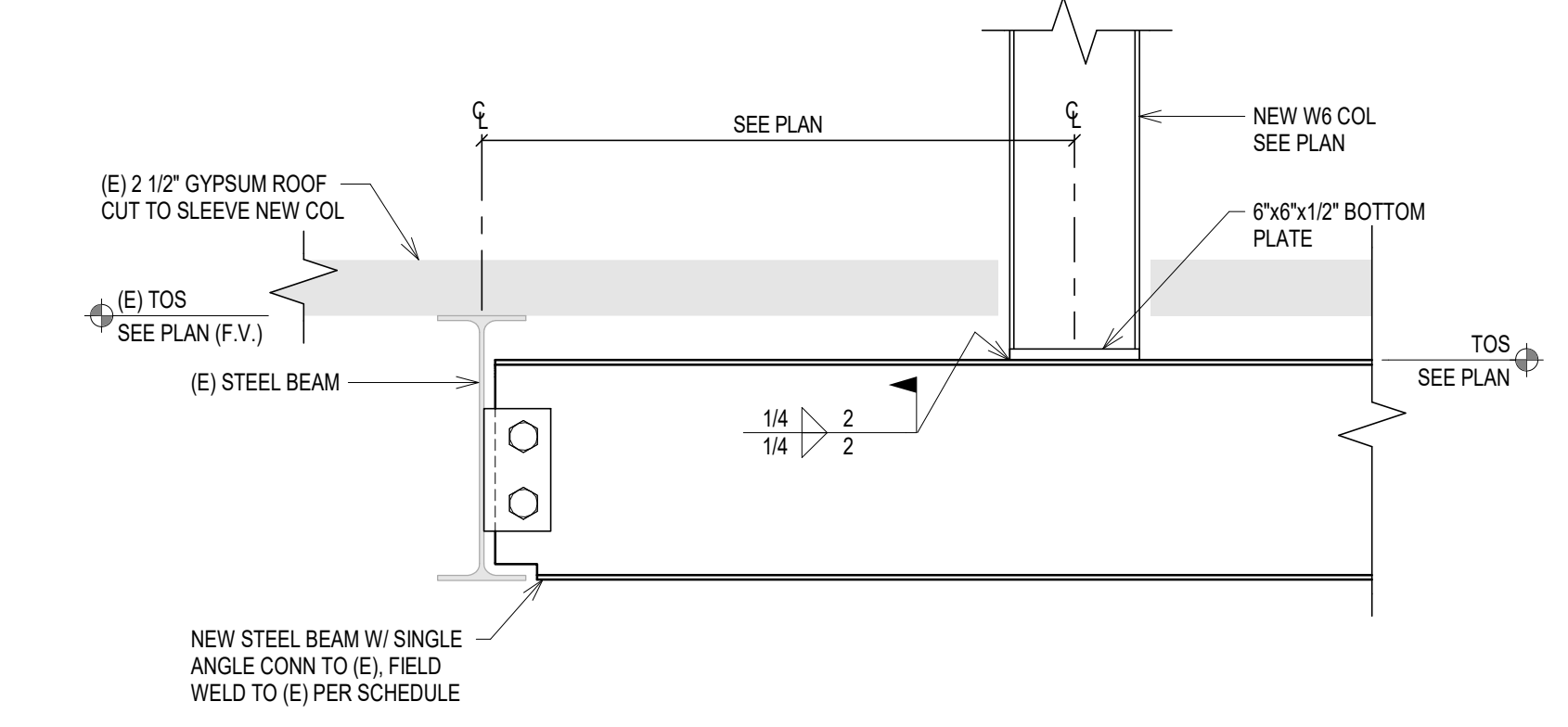
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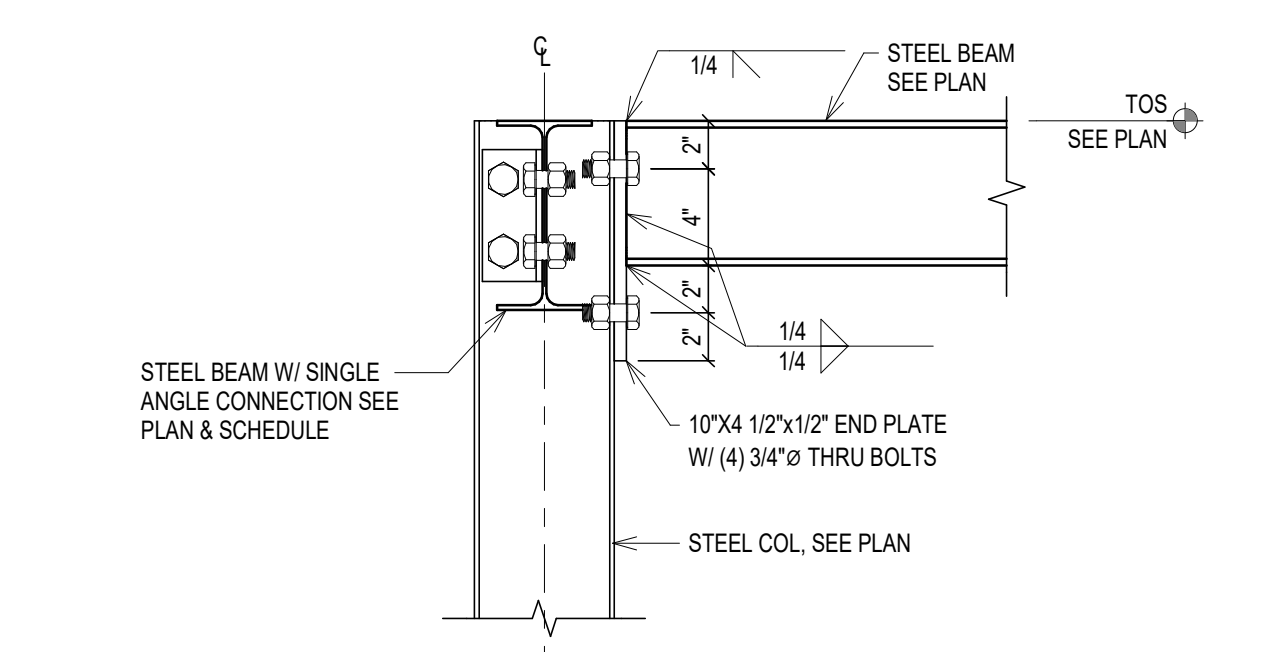
**B1**  
S-501  
SCALE: 3/4" = 1'-0"



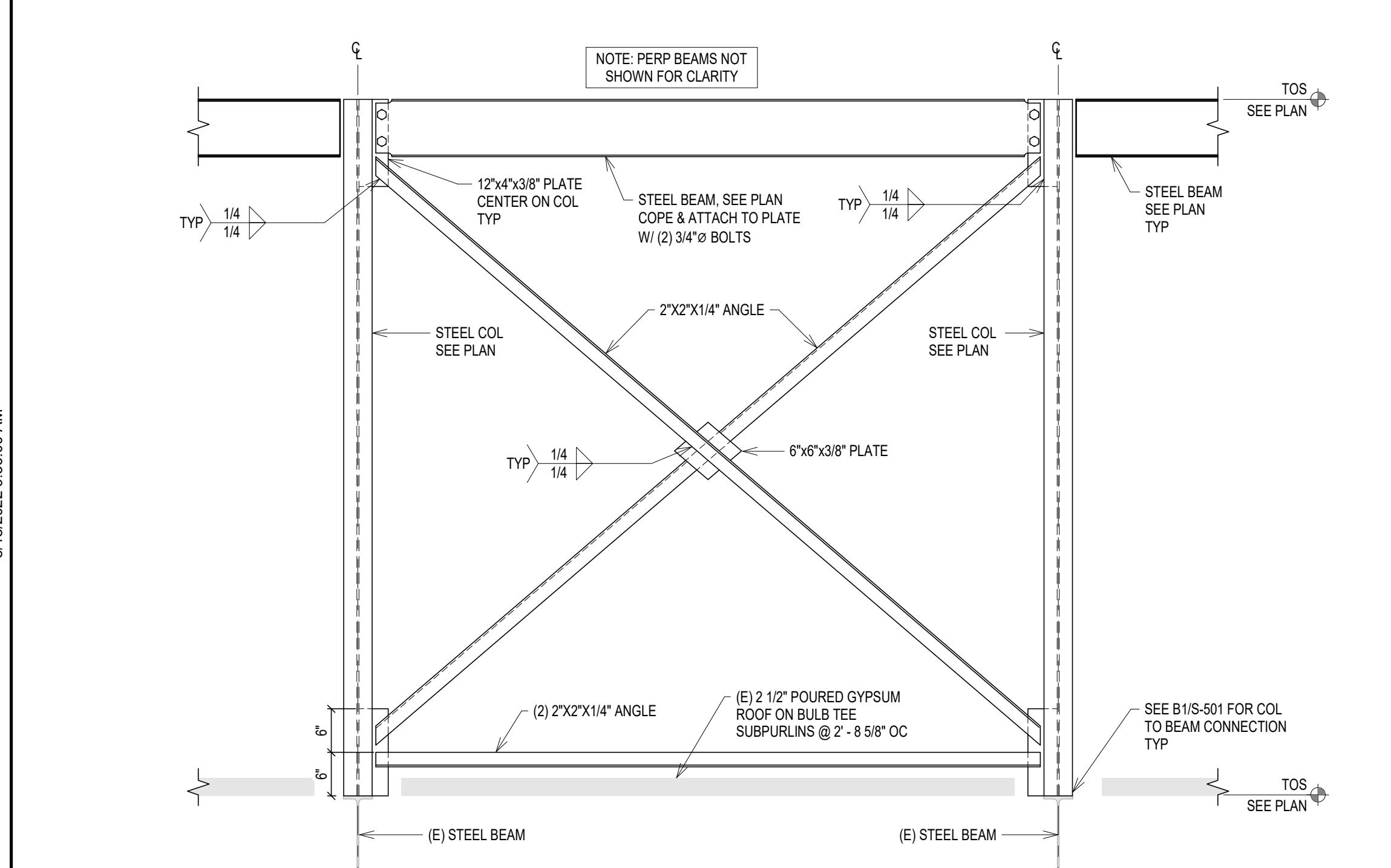
**B4**  
S-501  
SCALE: 1 1/2" = 1'-0"



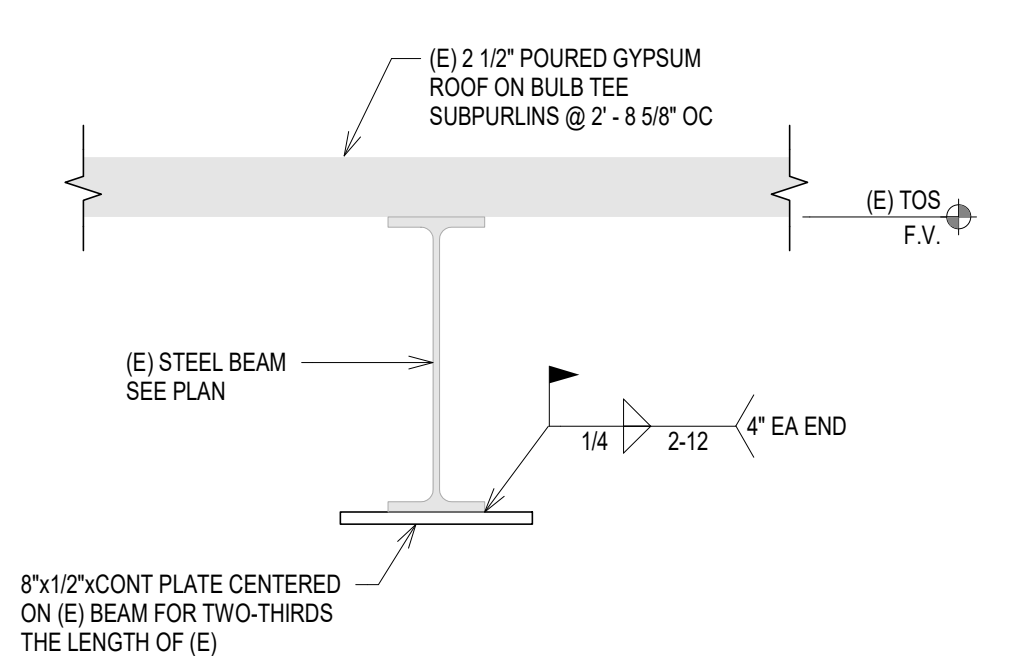
**B6**  
S-501  
SCALE: 1 1/2" = 1'-0"



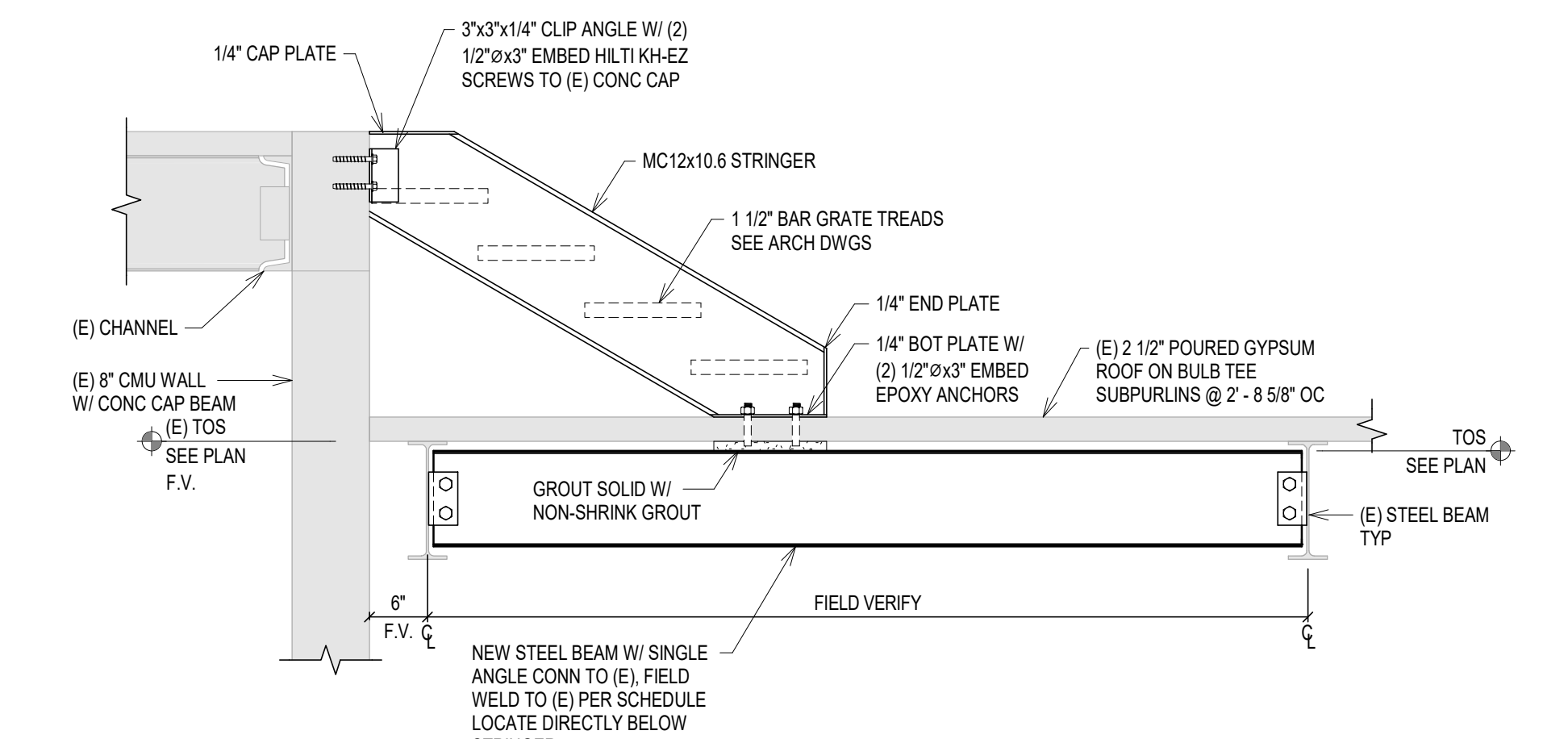
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S-501  
SCALE: 1 1/2" = 1'-0"



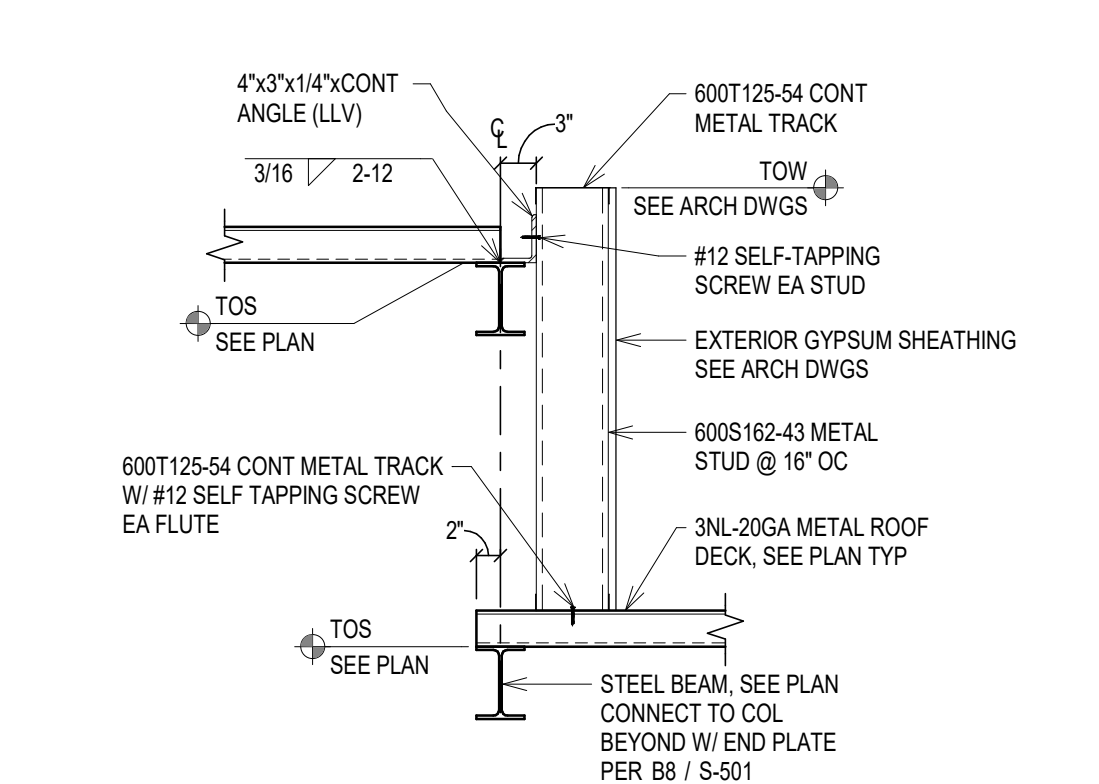
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S-501  
SCALE: 3/4" = 1'-0"



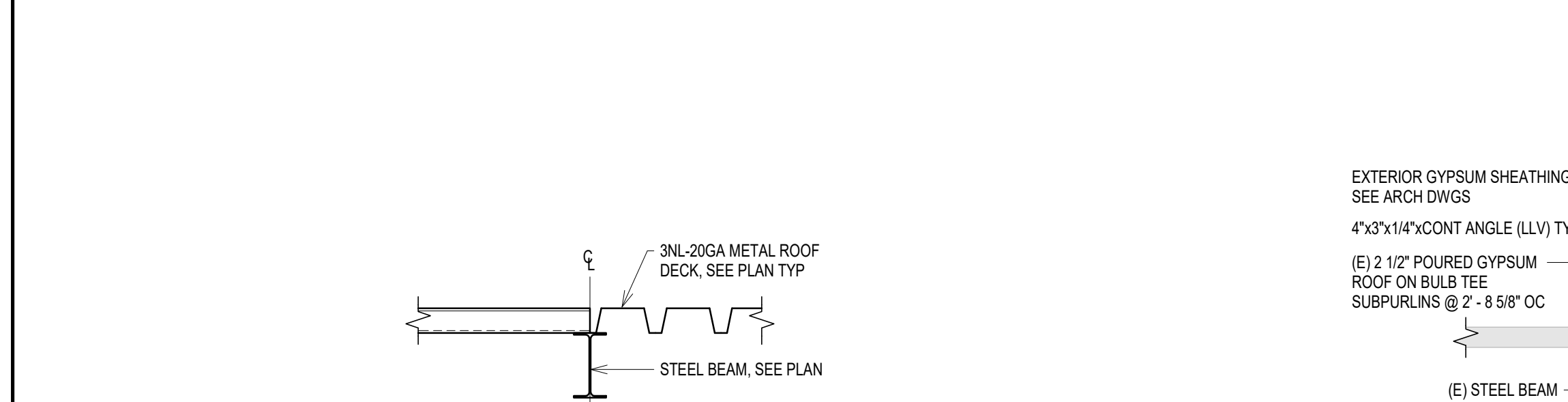
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SCALE: 1 1/2" = 1'-0"



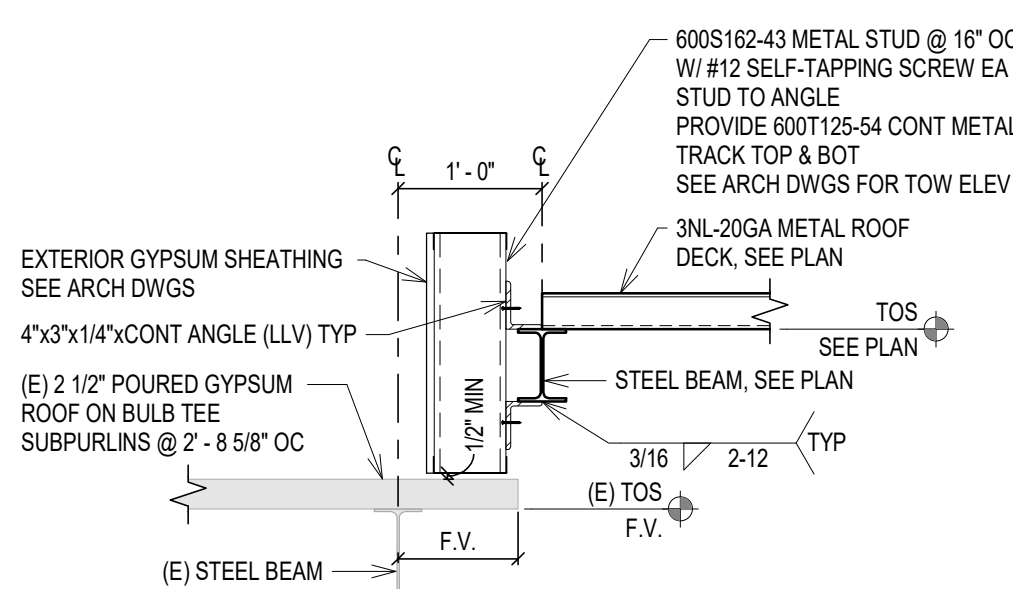
**E6**  
S-501  
SCALE: 3/4" = 1'-0"



**E9**  
S-501  
SCALE: 3/4" = 1'-0"



**F1**  
S-501  
SCALE: 3/4" = 1'-0"



**F3**  
S-501  
SCALE: 3/4" = 1'-0"

Revision#	Description	Date:

**CONSULTANTS**

**MECHANICAL / ELECTRICAL / PLUMBING:**  
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**STRUCTURAL:**  
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 605-271-1144

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DAVID L. DAVIS  
 PROFESSIONAL ENGINEER  
 REG. NO. 6041  
 STATE OF SOUTH DAKOTA  
 07/2022

**Office of Construction and Facilities Management**

**VA** U.S. Department of Veterans Affairs

**Drawing Title**  
**DETAILS**

**Approved:**

**Phase**  
**CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

**Project Title**  
**VA FM UPGRADE MENTAL HEALTH LOCK WARD**

**Location**  
**FORT MEADE, SOUTH DAKOTA**

**Issue Date**  
 08/19/2022

**Checked**  
 DEL

**Drawn**  
 JAB

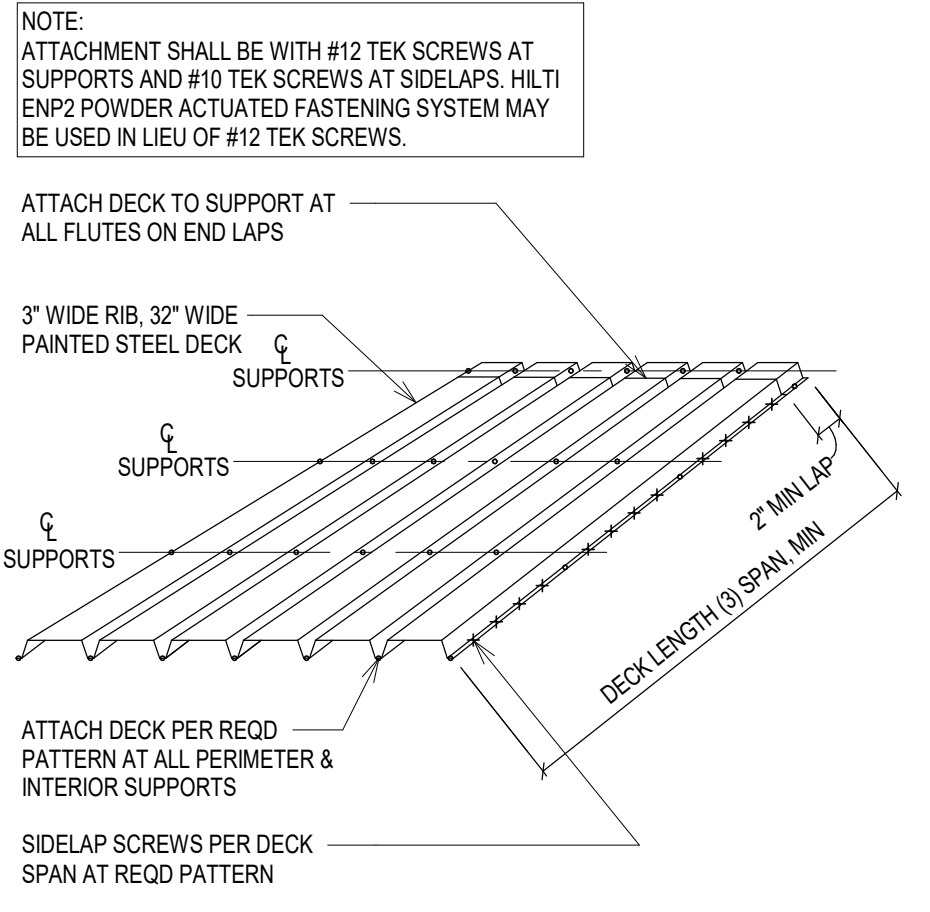
**Project Number**  
 VA #VA #568-20-102  
 SGA #211937

**Building Number**  
 148

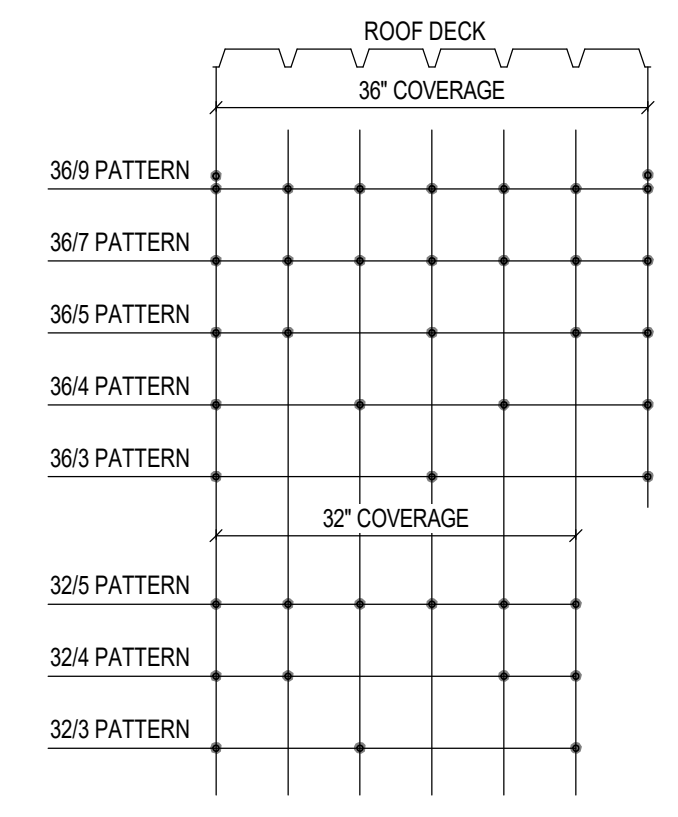
**Drawing Number**  
 S-501

Vertical grid lines: A, B, C, D, E, F, G

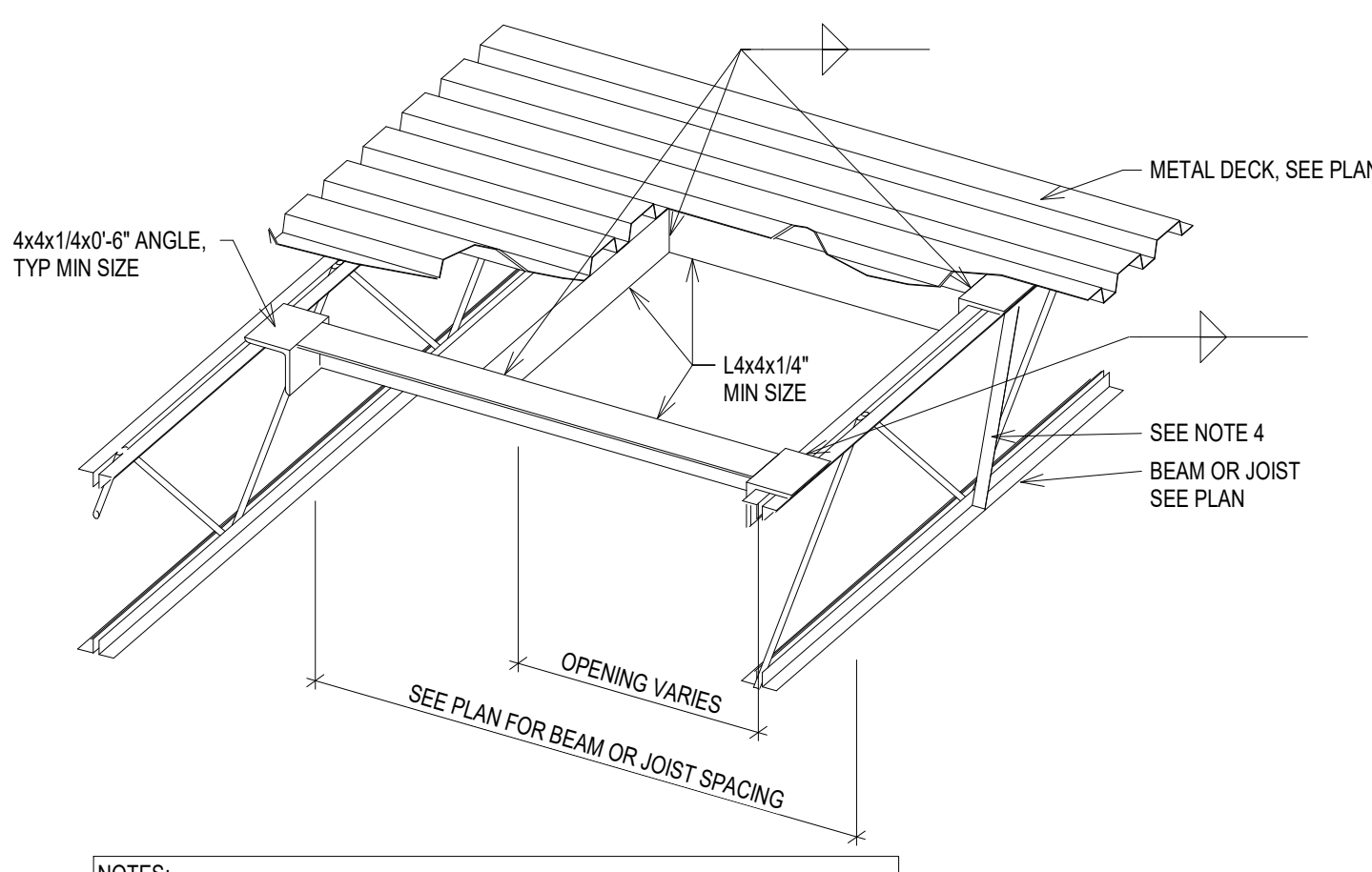
Horizontal grid lines: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10



**B1 TYP MTL DECK ATTACHMENT PATTERNS**  
SCALE: 3/4" = 1'-0"



**B4 TYP MTL DECK - OPENING**  
SCALE: 3/4" = 1'-0"

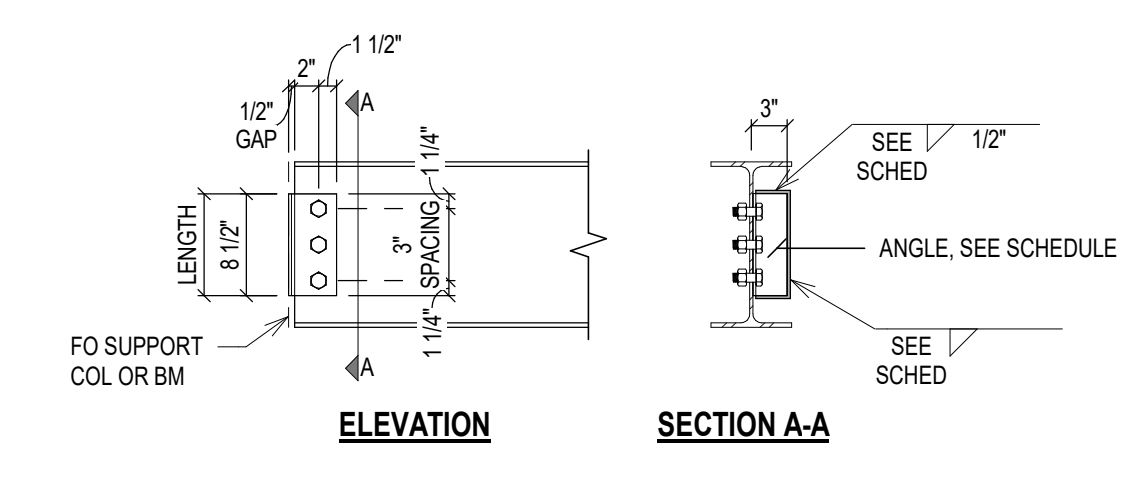


- NOTES:**
1. VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH ARCH. MECH. AND ELEC. DRAWINGS AND EQUIPMENT SUPPLIERS PRIOR TO SUBMITTING SHOP DRAWINGS
  2. NO ADDED FRAMING IS REQUIRED AT OPENINGS CUTTING ONLY ONE DECK FLUTE, UNLESS OTHERWISE NOTED.
  3. FASTEN DECK FLUTES TO ANGLE FRAMING ALL SIDES PER ROOF DECK ATTACHMENT SPECIFIED IN THE PLAN NOTES.
  4. IF ANGLE TAB DOES NOT FALL W/ 3" OF JOIST PANEL POINT, ADD (D) ANGLES 1 1/2" x 1 1/2" x 1/4" FROM TAB LOCATION TO BOTTOM CHORD PANEL POINT. (1) EA SIDE OF JOIST, WELD INTO PLACE.

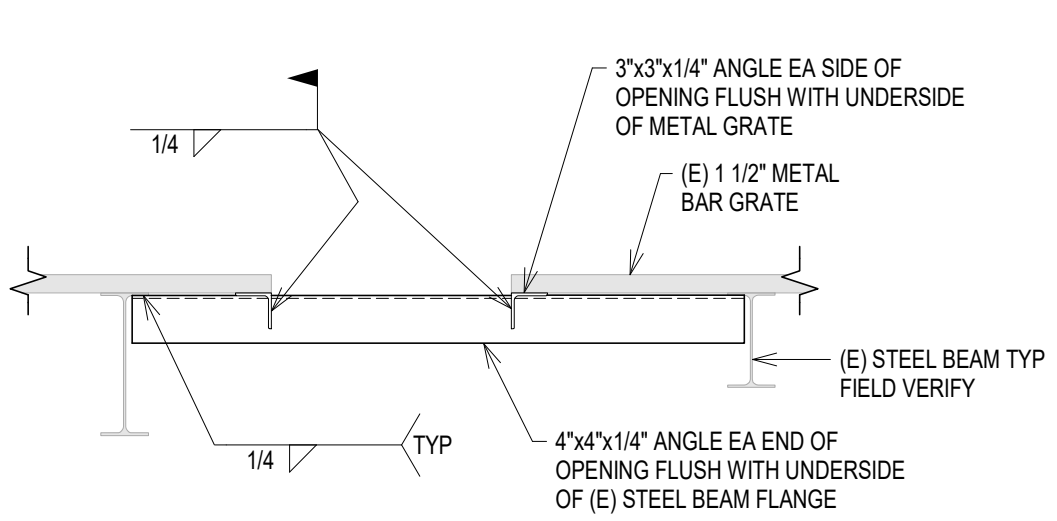
SINGLE ANGLE CONNECTION SCHEDULE			
BEAM	3/4" Ø BOLTS	CONNECTION ANGLES	
		LENGTH	ANGLE SIZE
W8 & 10	2	5 1/2"	L4X3X3/8 (SEE DIAGRAM)
W12 & 14	3	8 1/2"	L4X3X3/8 (SEE DIAGRAM)
W16	4	11 1/2"	L4X3X3/8 (SEE DIAGRAM)
W18	5	14 1/2"	L4X3X3/8 (SEE DIAGRAM)
W21	6	17 1/2"	L4X3X3/8 (SEE DIAGRAM)
W24	7	20 1/2"	L4X3X3/8 (SEE DIAGRAM)
W27	8	23 1/2"	L4X3X3/8 (SEE DIAGRAM)
W30	9	26 1/2"	L4X3X3/8 (SEE DIAGRAM)
W33	10	29 1/2"	L4X3X3/8 (SEE DIAGRAM)

**ADDITIONAL REMARKS:**

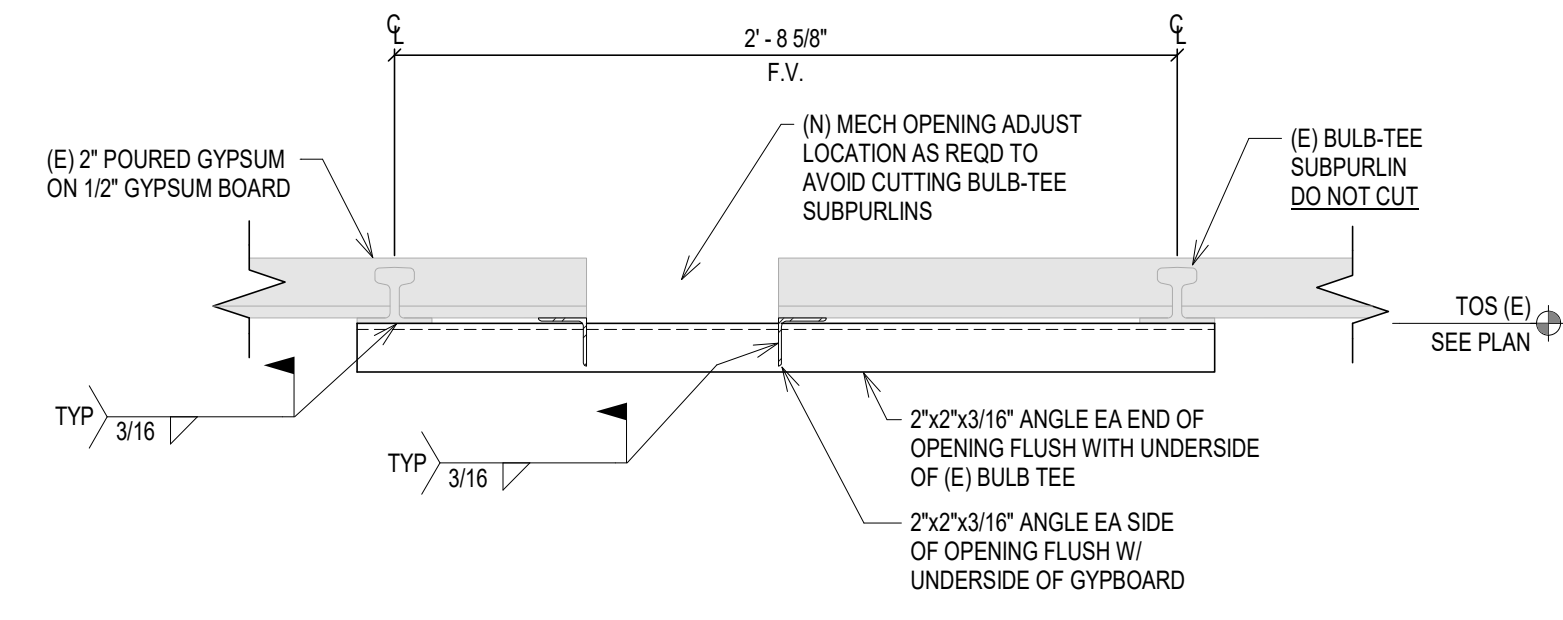
1. ANGLE MAY BE WELDED TO BEAM OR SUPPORT WITH ALTERNATE WELD SHOWN, BUT NOT BOTH.
2. FOR SKEWS > 5° PROVIDE 3/8" BENT PLATE



**B6 SCHEDULE - SGL ANGLE CONNECTION**  
SCALE: 1/2" = 1'-0"



**D1 TYP MECH OPENING THRU (E) BAR GRATE**  
SCALE: 3/4" = 1'-0"



**D3 TYP MECH OPENING THRU (E) ROOF**  
SCALE: 1 1/2" = 1'-0"

Revision#	Description	Date:

**CONSULTANTS**

**MECHANICAL / ELECTRICAL / PLUMBING:**  
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**STRUCTURAL:**  
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Phone: 605-340-8609

**ARCHITECT OF RECORD**

**A/E:**  
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Sioux Falls, SD 57103  
605-271-1144

**STONE GROUP ARCHITECTS**

**STAMP**

Professional Engineer Seal for David J. Davila, No. 6041, State of South Dakota, expires 07/31/2022.

**Office of Construction and Facilities Management**

**VA** U.S. Department of Veterans Affairs

Drawing Title: **TYPICAL DETAILS**

Phase: **CONSTRUCTION DOCUMENTS**

Approved: \_\_\_\_\_

Project Title: **VA FM UPGRADE MENTAL HEALTH LOCK WARD**

Location: **FORT MEADE, SOUTH DAKOTA**

Issue Date: 08/19/2022

Checked: DEL

Drawn: JAB

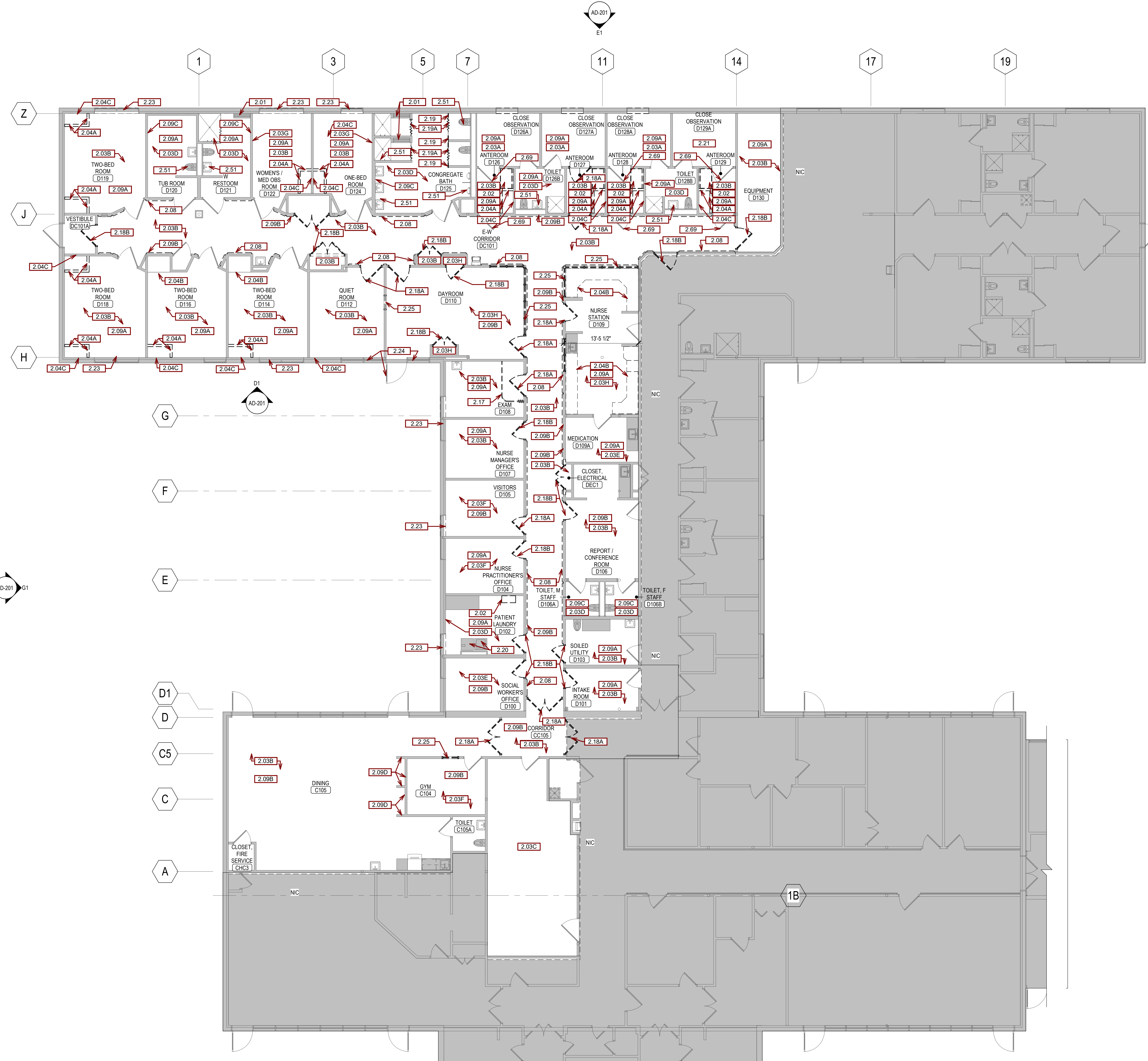
Project Number: **VA #VA #568-20-102 SGA #211937**

Building Number: **148**

Drawing Number: **S-601**

**GENERAL DEMOLITION PLAN NOTES:**

- A. PROTECT ALL EXISTING UTILITIES.
- B. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AT THE PROJECT SITE.
- C. PATCH REMAINING EXISTING CONSTRUCTION, AFFECTED BY DEMOLITION, TO MATCH EXISTING PVC.
- D. EXISTING ITEMS TO REMAIN ARE SHOWN AS HALFTONE.
- E. DEMO ITEMS ARE SHOWN AS DASHED.
- F. INFILL OF THE PENETRATIONS IN FIRE RATED WALLS SHALL MAINTAIN THE INTEGRITY OF THE RATING.
- G. COORDINATE RELOCATION OF SALVAGED ITEMS WITH THE OWNER.
- H. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION RELEVANT TO DEMOLITION & PATCHING.
- I. DEMO & REMOVE ALL EXISTING CEILING IN DEMOLITION AREA.
- J. DEMO & REMOVE ALL EXISTING LIGHT FIXTURES AND ELECTRICAL ITEMS IN DEMOLITION AREA. SEE ELEC.
- K. DEMO & REMOVE ALL EXISTING MECHANICAL FIXTURES AND ITEMS IN DEMOLITION AREA. SEE MECH.
- L. REMOVE ALL EXISTING CORNER GUARDS.
- M. REMOVE GRAB BARS AS REQ'D FOR TILE DEMOLITION. RETAIN AND REINSTALL.



SGA KEYNOTES	
Key Value	Keynote Text
2.01	REMOVE BENCH FOR TILE DEMO AND RETAIN FOR REINSTALLATION.
2.02	REMOVE CASWORK AND PREPARE WALL TO RECEIVE NEW FINISH.
2.03A	REMOVE SHEET VINYL FLOORING AND BASE.
2.03B	REMOVE VCT FLOORING AND BASE.
2.03C	PREP PAINTED FLOOR FOR NEW FINISH.
2.03D	REMOVE EPOXY FLOORING AND BASE.
2.03E	REMOVE LVT FLOORING AND BASE.
2.03F	REMOVE CARPET AND BASE.
2.03G	REMOVE FLOOR BASE FROM ALL WALLS.
2.03H	REMOVE LVP FLOORING AND BASE.
2.04A	REMOVE BUILT IN CABINETRY AND GYPSUM WALL COVE.
2.04B	REMOVE BUILT IN CABINETRY.
2.04C	REMOVE DRYPWALL FOR BLOCKING INSTALLATION.
2.08	REMOVE ALL HANDRAILS, CRASH GUARDS, CORNER GUARDS AND WALL PROTECTION.
2.08A	PATCH, REPAIR AND PREP WALLS TO RECEIVE NEW FINISH.
2.08B	REMOVE WALL PAPER AND PREP WALLS TO RECEIVE NEW FINISH.
2.08C	REMOVE TILE FROM ALL WALLS. PREP TO RECEIVE NEW FINISH.
2.08D	REMOVE WALL PAPER AND WALL PROTECTION. PREP WALLS TO RECEIVE NEW FINISH.
2.17	REMOVE PRIVACY CURTAIN AND TRACK FROM CEILING AND RETAIN FOR REINSTALLATION.
2.18A	REMOVE DOOR AND FRAME AND PREPARE OPENING TO RECEIVE NEW DOOR AND FRAME.
2.18B	REMOVE DOOR AND PREPARE FRAME TO RECEIVE NEW DOOR.
2.19	REMOVE PARTITION WALL. PREPARE WALL TO RECEIVE NEW FINISH.
2.19A	REMOVE PRIVACY/SHOWER CURTAIN AND PREPARE FOR NEW PARTITION DOOR.
2.20	COORDINATE WITH VA TO REMOVE, STORE AND REINSTALL WASHER AND DRYER.
2.21	DEMO EXISTING RUBBERIZED WALL COATING. PREP WALLS AND FLOOR FOR NEW RUBBERIZED COATING APPLICATION.
2.23	DEMO EXISTING LAMINATE WINDOW SILLS.
2.24	DEMO EXISTING GLAZING IN CURTAIN WALL.
2.25	DEMO GLAZING AND HOLLOW METAL FRAME.
2.51	REMOVE EXISTING PLUMBING FIXTURES TO ALLOW FOR WALL FINISH REPLACEMENT. COORDINATE REINSTALLATION WITH FINISH REPLACEMENT.
2.69	REMOVE GLASS AND GLAZING STOPS FROM EXISTING DOOR AND PREP FOR NEW GLAZING.

**1ST LEVEL DEMOLITION PLAN - FLOOR PLAN**  
 1/8" = 1'-0"

**CONSULTANTS**

MECHANICAL / ELECTRICAL / PLUMBING:  
**WPE**  
 West Plains Engineering, Inc.  
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 Phone: 605-349-7455

STRUCTURAL:  
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 Phone: 605-343-9609

**ARCHITECT OF RECORD**

A/E:  
**Stone Group Architects**  
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Office of Construction and Facilities Management  
 VA U.S. Department of Veterans Affairs

Drawing Title  
**1ST LEVEL DEMOLITION PLAN - FLOOR PLAN**

Approved:

Phase  
**CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**VA FM UPGRADE MENTAL HEALTH LOCK WARD**

Location  
**FORT MEADE, SOUTH DAKOTA**

Issue Date  
 08/29/22

Checked  
 JHK

Drawn  
 RMV/DAN

Project Number  
 VA #568-20-102  
 SGA #211937

Building Number  
 148

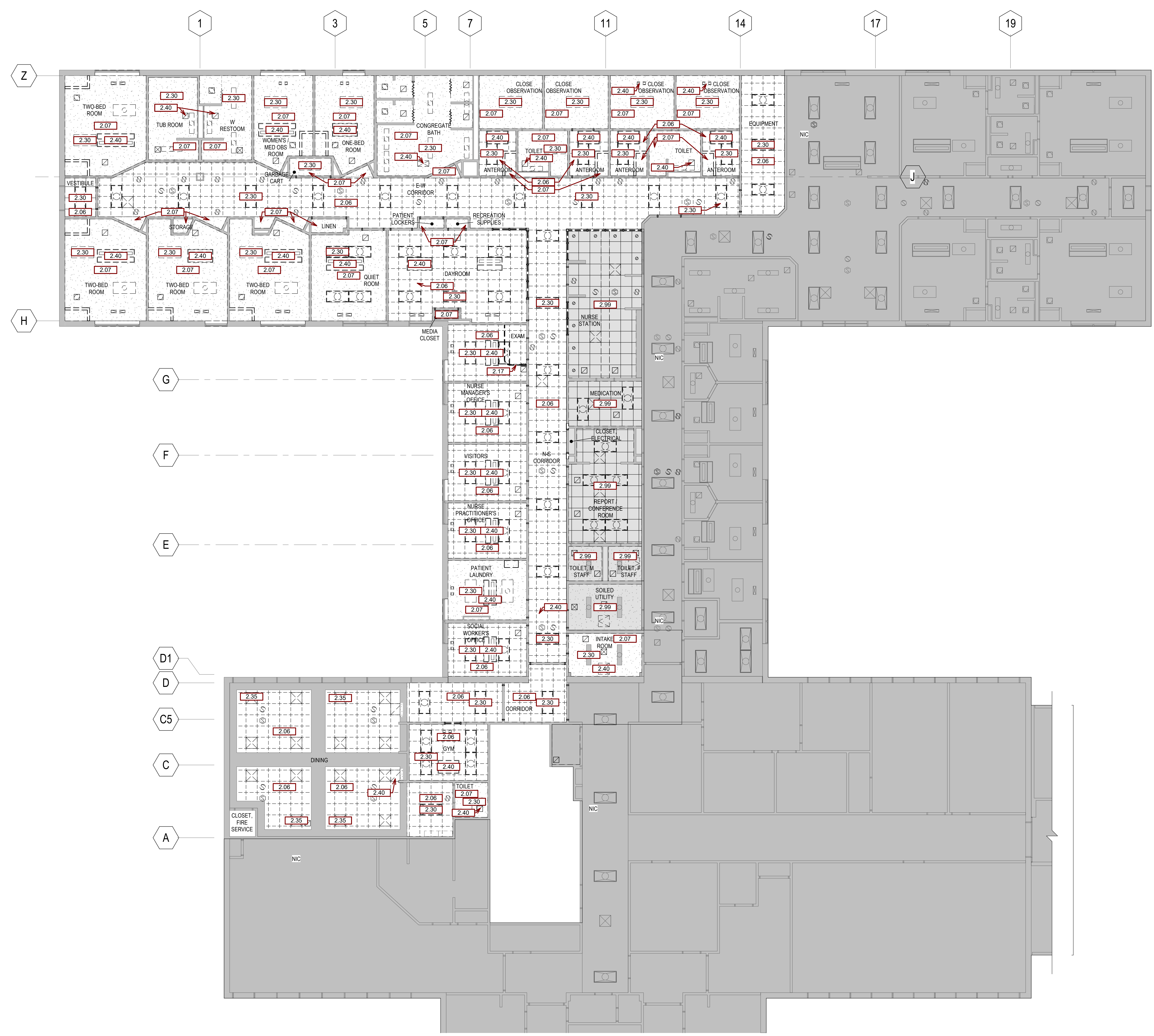
Drawing Number  
**AD-101**

Revision#	Description	Date:

**GENERAL DEMOLITION PLAN NOTES:**

- A. PROTECT ALL EXISTING UTILITIES.
- B. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AT THE PROJECT SITE.
- C. PATCH REMAINING EXISTING CONSTRUCTION, AFFECTED BY DEMOLITION, TO MATCH EXISTING PVC.
- D. EXISTING ITEMS TO REMAIN ARE SHOWN AS HALFTONE.
- E. DEMO ITEMS ARE SHOWN AS DASHED.
- F. INFILL OF THE PENETRATIONS IN FIRE RATED WALLS SHALL MAINTAIN THE INTEGRITY OF THE RATING.
- G. COORDINATE RELOCATION OF SALVAGED ITEMS WITH THE OWNER.
- H. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION RELEVANT TO DEMOLITION & PATCHING.
- I. DEMO & REMOVE ALL EXISTING CEILING IN DEMOLITION AREA. SEE ELEC.
- J. DEMO & REMOVE ALL EXISTING LIGHT FIXTURES AND ELECTRICAL ITEMS IN DEMOLITION AREA. SEE MECH.
- K. DEMO & REMOVE ALL EXISTING MECHANICAL FIXTURES AND ITEMS IN DEMOLITION AREA. SEE MECH.
- L. REMOVE ALL EXISTING CORNER GUARDS.
- M. REMOVE GRAB BARS AS REQ'D FOR TILE DEMOLITION. RETAIN AND REINSTALL.

SGA KEYNOTES	
Key Value	Keynote Text
2.06	REMOVE ACOUSTICAL TILE CEILING AND SUPPORT RAILS. REMOVE EXISTING ELECTRICAL AND TECHNOLOGY FIXTURES AND COORDINATE FOR REINSTALLATION OR REPLACEMENT. REF. ELEC.
2.07	REMOVE GYPSUM CEILING AND FRAMING. REMOVE EXISTING ELECTRICAL AND TECHNOLOGY FIXTURES AND COORDINATE FOR REINSTALLATION OR REPLACEMENT. REF. ELEC.
2.17	REMOVE PRIVACY CURTAIN AND TRACK FROM CEILING AND RETAIN FOR REINSTALLATION.
2.30	REMOVE ALL LIGHT FIXTURES. REF. ELEC.
2.35	SAVE VALED LED LIGHT FIXTURES TO VA.
2.40	REMOVE ALL MECHANICAL EQUIP. REF. MECH.
2.99	NO CEILING DEMO IN THIS ROOM.



**G2 1ST LEVEL DEMOLITION RCP**  
1/8" = 1'-0"

**CONSULTANTS**

**MECHANICAL / ELECTRICAL / PLUMBING:**  
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**STONE GROUP ARCHITECTS**

**Office of Construction and Facilities Management**

**VA U.S. Department of Veterans Affairs**

Drawing Title  
**1ST LEVEL DEMOLITION PLAN - CEILING**

Phase  
**CONSTRUCTION DOCUMENTS**

Project Title  
**VA FM UPGRADE MENTAL HEALTH LOCK WARD**

Location  
**FORT MEADE, SOUTH DAKOTA**

Issue Date  
**08/29/22**

Checked  
**JHK**

Drawn  
**RMV/DAN**

Project Number  
**VA #568-20-102 SGA #211937**

Building Number  
**148**

Drawing Number  
**AD-102**

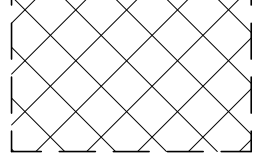

**FULLY SPRINKLERED**

Revision#	Description	Date:

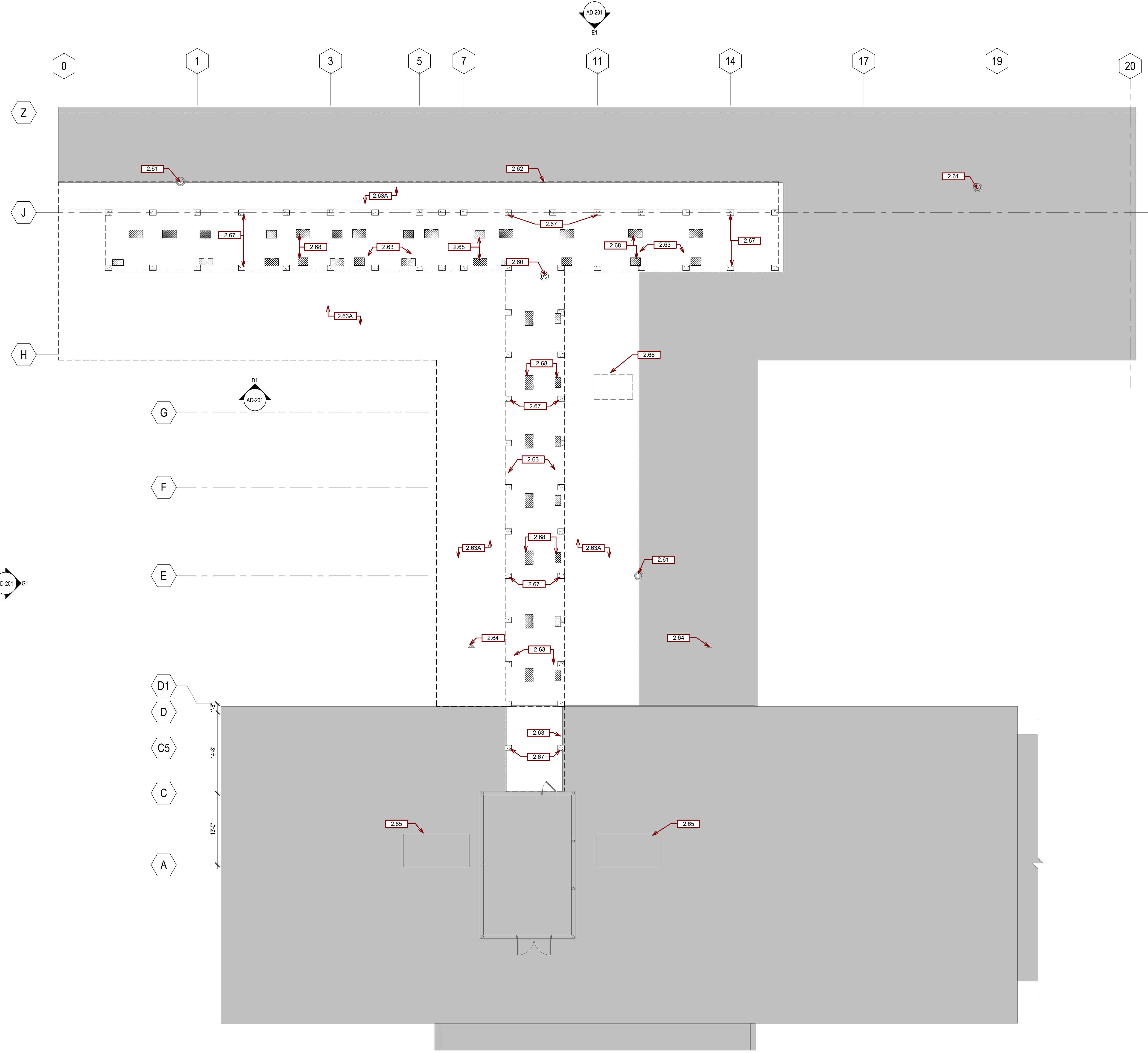
**GENERAL DEMOLITION PLAN NOTES:**

- A. PROTECT ALL EXISTING UTILITIES.
- B. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AT THE PROJECT SITE.
- C. PATCH REMAINING EXISTING CONSTRUCTION, AFFECTED BY DEMOLITION, TO MATCH EXISTING PVC.
- D. EXISTING ITEMS TO REMAIN ARE SHOWN AS HALFTONE.
- E. DEMO ITEMS ARE SHOWN AS DASHED.
- F. INFILL OF THE PENETRATIONS IN FIRE RATED WALLS SHALL MAINTAIN THE INTEGRITY OF THE RATING.
- G. COORDINATE RELOCATION OF SALVAGED ITEMS WITH THE OWNER.
- H. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION RELEVANT TO DEMOLITION & PATCHING.
- I. DEMO & REMOVE ALL EXISTING CEILING IN DEMOLITION AREA.
- J. DEMO & REMOVE ALL EXISTING LIGHT FIXTURES AND ELECTRICAL ITEMS IN DEMOLITION AREA. SEE ELEC.
- K. DEMO & REMOVE ALL EXISTING MECHANICAL FIXTURES AND ITEMS IN DEMOLITION AREA. SEE MECH.
- L. REMOVE ALL EXISTING CORNER GUARDS.
- M. REMOVE GRAB BARS AS REQ'D FOR TILE DEMOLITION, RETAIN AND REINSTALL.

**DEMO PLAN LEGEND:**

-  DEMO GYPSUM ROOF DECK TO ALLOW FOR DUCTS TO PENETRATE. COORDINATE LOCATIONS WITH MECHANICAL TO AVOID CUTTING BULB-TIE. SUBMIT PURLINS. REF STRUCTURAL FOR SUPPORT OF OPENING.
-  DEMO 12"x12" SQUARE IN GYPSUM ROOF DECK TO ALLOW INSTALLATION OF STRUCTURAL COLUMNS FOR PENTHOUSE. REF. STRUCTURAL FOR COLUMN CONNECTION. PATCH GYPSUM ROOF DECK WITH NON-SHRINK GROUT.

SGA KEYNOTES	
Key Value	Keynote Text
2.60	DEMO EXISTING ROOF DRAIN, TO BE RELOCATED.
2.61	REMOVE EXISTING ROOF DRAIN AND REPLACE WITH NEW DRAIN IN SAME LOCATION.
2.62	DEMO ROOF AS NECESSARY TO INSTALL NEW ROOF DRAIN.
2.63	REMOVE ROOFING AND INSULATION TO STRUCTURAL GYPSUM DECK FOR NEW MECH PENTHOUSE. PREPARE EXISTING DECK FOR NEW FINISHES.
2.63A	REMOVE ROOFING AND INSULATION TO STRUCTURAL DECK, PREP EXISTING DECK FOR REPLACEMENT ROOF.
2.64	EXISTING DRYER VENTS TO REMAIN. REPAIR FLASHING AS NEEDED.
2.65	EXISTING ROOF TOP MECHANICAL EQUIPMENT TO REMAIN. SEE MECHANICAL.
2.66	DEMO EXISTING ROOF TOP MECHANICAL EQUIPMENT. SEE MECHANICAL.
2.67	DEMO 12"x12" SQUARE GYPSUM ROOF DECK TO EXPOSE STRUCTURAL BEAMS.
2.68	DEMO FOR NEW MECH PENETRATIONS, SEE MECH.



**G1 2ND LEVEL DEMOLITION PLAN**  
1/8" = 1'-0"

**CONSULTANTS**

MECHANICAL / ELECTRICAL / PLUMBING:  
  
 West Plains Engineering, Inc.  
 1750 Rand Road  
 Rapid City, South Dakota 57702  
 Phone: 605-340-7455

STRUCTURAL:  
  
 Albertson Engineering, Inc.  
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 Rapid City, South Dakota 57702  
 Phone: 605-343-8609

**ARCHITECT OF RECORD**

A/E:  
 Stone Group Architects  
 600 E 7th Street  
 Sioux Falls, SD 57103  
 605-271-1144



STAMP

Office of Construction and Facilities Management

 U.S. Department of Veterans Affairs

Drawing Title  
**DEMOLITION PLAN - ROOF**

Approved:

Phase  
**CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**VA FM UPGRADE MENTAL HEALTH LOCK WARD**

Location  
**FORT MEADE, SOUTH DAKOTA**

Issue Date  
 08/29/22

Checked  
 JHK

Drawn  
 RMV/DAN

Project Number  
 VA #568-20-102  
 SGA #211937

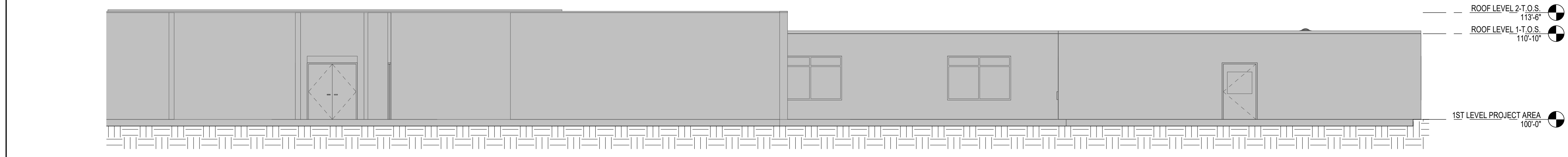
Building Number  
 148

Draw Number  
**AD-103**

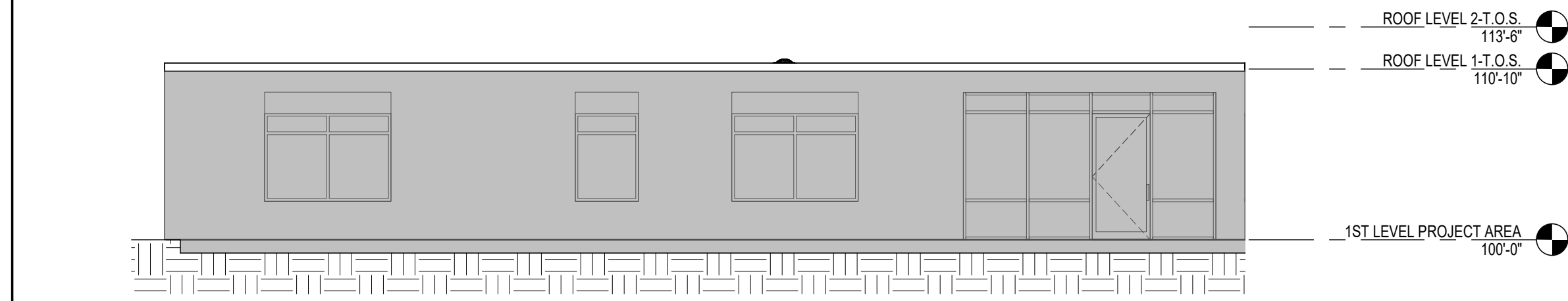
Revision#	Description	Date:



SGA KEYNOTES	
Key Value	Keynote Text
2.09E	DEMO EXISTING MASONRY WALL AND PREP FOR NEW WINDOW INSTALLATION.

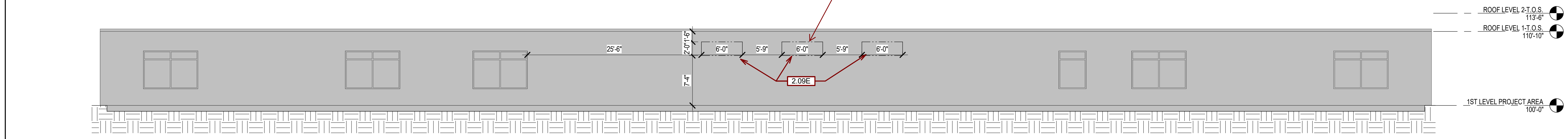


**C1 SOUTH DEMO ELEVATION**  
1/8" = 1'-0"

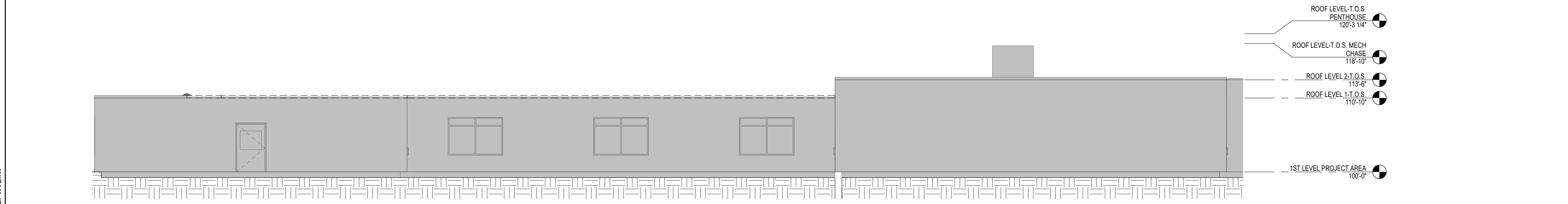


**D1 WEST DEMO ELEVATION**  
1/8" = 1'-0"

Lintels to be TS6x4 as per detail 4 on sheet 148-8 of existing drawing set. Detail flashing similar.



**E1 EAST DEMO ELEVATION**  
1/8" = 1'-0"



**G1 NORTH DEMO ELEVATION**  
1/8" = 1'-0"

Revision#	Description	Date:

**CONSULTANTS**

**MECHANICAL / ELECTRICAL / PLUMBING:**  
**WPE**  
 West Plains Engineering, Inc.  
 1750 Rand Road  
 Rapid City, South Dakota 57702  
 Phone: 605-340-7455

**STRUCTURAL:**  
**Albertson Engineering, Inc.**  
 2022 W. Main St., 8C  
 Rapid City, South Dakota 57702  
 Phone: 605-343-8600

**ARCHITECT OF RECORD**

**A/E:**  
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 600 E 7th Street  
 Sioux Falls, SD 57103  
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**STAMP**

**STONE GROUP ARCHITECTS**

**Office of Construction and Facilities Management**

**VA** U.S. Department of Veterans Affairs

Drawing Title  
**DEMOLITION ELEVATIONS**

Approved:

Phase  
**CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**VA FM UPGRADE MENTAL HEALTH LOCK WARD**

Location  
**FORT MEADE, SOUTH DAKOTA**

Issue Date  
**08/29/22**

Checked  
**JHK**

Drawn  
**RMV/DAN**

Project Number  
**VA #568-20-102 SGA #211937**

Building Number  
**148**

Drawing Number  
**AD-201**

**GENERAL FLOOR PLAN NOTES:**

- A. ANY DISCREPANCIES OR CONFLICTS FOUND IN THE VARIOUS PARTS OF THE CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE COR BEFORE PROCEEDING WITH THE WORK.
- B. FURNITURE IS PROVIDED AND INSTALLED BY OTHERS.
- C. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. DO NOT SCALE THE DRAWINGS.
- D. CONTRACTOR & SUBCONTRACTORS TO VERIFY ALL EXISTING CONDITIONS AT THE PROJECT SITE.
- E. ALL MATERIALS & EQUIPMENT SHALL BE INSTALLED PER MANUFACTURERS INSTRUCTIONS.
- F. DETAILS SHOWN ARE TYPICAL UNLESS OTHERWISE NOTED. SIMILAR DETAILS APPLY IN SIMILAR CONDITIONS.
- G. PROVIDE WOOD BACKING FOR ALL BATH ACCESSORIES, HANDRAILS, OR OTHER ITEMS ATTACHED TO BUILDING WALLS.
- H. PROVIDE ADA COMPLIANT SIGNAGE FOR ALL REQUIRED AREAS, ROOMS, & ACCESSIBLE PATHS. HEIGHT OF OPERATIONAL OR DISPENSING PORTION OF ACCESSORIES & FIXTURES NOT TO EXCEED 48" A.F.F. SEE SHEET G1-002.
- I. WINDOW AND DOOR TYPES, SEE SCHED.
- J. PROVIDE CONTROL JOINTS IN DRYWALL EVERY 30'-0".
- K. ALL DIMENSIONS ARE TO OUTSIDE OF WALL FRAMING.
- L. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION FOR TILE FLOOR INSTALLATION. CONTRACTOR TO USE SCHLUTER PRODUCTS AS BASIS OF DESIGN FOR WATERPROOFING & KEROL & ULTRA PRODUCTS AS APPLICABLE TO MANUFACTURER'S RECOMMENDATIONS.
- M. REPAIR ALL ROOMS THAT HAVE BEEN DEMOLITIONED.
- N. REPLACE ALL WALL BASES AND FLOORING IN DEMO ROOMS.
- O. REINSTALL AND/OR REPLACE ALL FINISHES AND FURNISHINGS.
- P. INSTALL WALL HANDRAILS IN CORRIDORS.
- Q. REMOVE AND REINSTALL PLUMBING FIXTURES AS REQ'D TO ACCOMMODATE TILE REMOVAL. SAVE REMOVED SIGNAGE TO BE PUT BACK WHEN FINISHED.
- T.

Key Note	Keynote Text
6.35	INSTALL BACKING SUPPORT FOR NEW VA SUPPLIED CABINET SYSTEM
6.60C	SLOPED SOLID SURFACE W/D SILL SEE DETAILS FOR ANGLE
8.01E	INSTALL LAMINATED GLASS IN EXISTING DOOR. SUPPLY NEW GLAZING STOPS. SEE DOOR SCHEDULE.
8.02	INFILL AND SEAL TOP OF EXISTING HOLLOW METAL DOOR.
8.12	INSTALL INTERIOR ACCESSORY WINDOW INTO EXISTING WINDOW OPENING. - SEE SPECS.
8.14	INSTALL NEW METAL HEALTH RATED EXTERIOR GLAZING IN EXISTING ALUMINUM FRAME AND DOOR. - SEE SPECS.
9.05	APPLY RUBBERIZED COATING FROM TOP OF EXISTING COATING TO NEW GYP CEILING. ALL WALLS IN D129A.
9.10	FILL, PATCH, AND NEW FINISH FOR OPENING IN WALL
9.11	WHERE CEILING IS BEING RAISED, INSTALL GYPSUM, PATCH HOLES AND PREP WALLS FOR NEW FINISH
9.60	REPAIR RUBBERIZED COATING ON FLOOR.
10.11	NEW ANTI-LIGATURE HANRAIL AND CRASH RAIL THROUGHOUT CORRIDOR.
10.36	WALL PROTECTION FULL WALL HEIGHT
22.47	NEW WATER BOTTLE FILLER FOUNTAIN SEE SPECS AND MECH

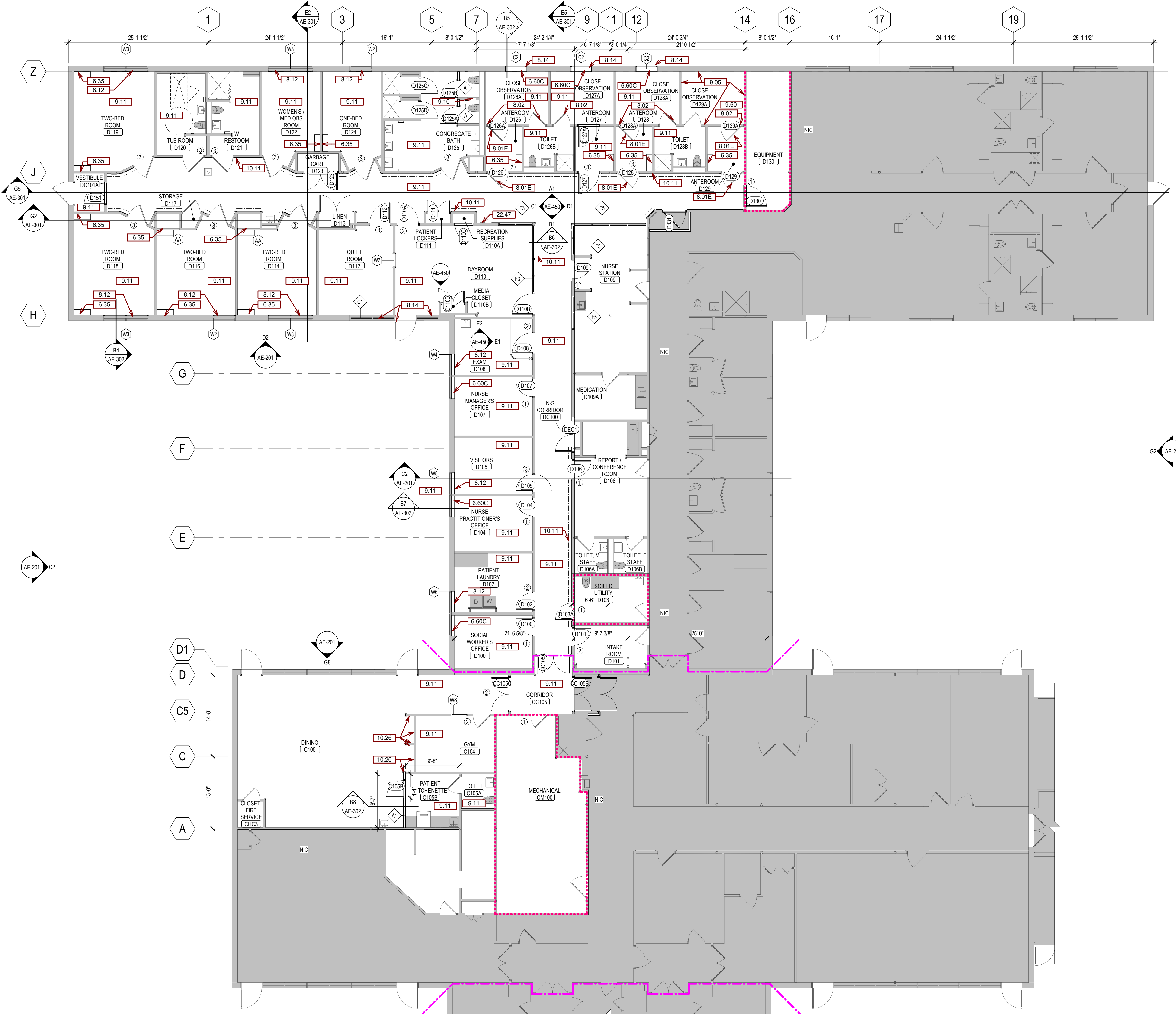
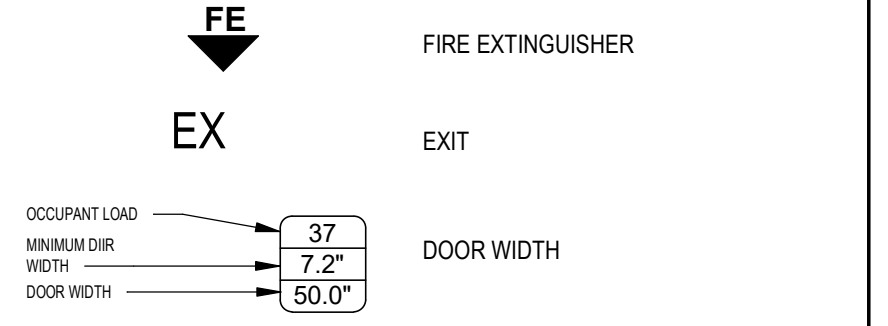
WALL TYPES		INDICATED THUS ON FLOOR PLANS
AA	NON-RATED	5/8" IMPACT RESISTANT G.W.B., 3 5/8" STEEL STUD
E2	NON-RATED	EXTERIOR MTL. PANEL ON 3 5/8" METAL STUD, R-13 BATT AND R-13 CI INSULATION

**SECURITY ZONES**

- 3 ZONE 3 - HIGHEST SECURITY LEVEL  
PATIENTS ARE ALONE LIKE BEDROOMS AND BATHROOMS
- 2 ZONE 2 - MODERATE SECURITY LEVEL  
PATIENTS ARE OBSERVED BY STAFF LIKE DAYROOMS
- 1 ZONE 1 - LOWEST SECURITY  
PATIENTS HAVE RESTRICTED ACCESS

**LIFE SAFETY LEGEND**

- 2FW 2HR FIRE WALL
- 2FB 2HR FIRE BARRIER
- 1FB 1HR FIRE BARRIER
- 2FS 2HR FIRE / SMOKE BARRIER
- 30SB 30 MIN SMOKE BARRIER
- 1SB 1HR SMOKE BARRIER
- 2SB 2HR SMOKE BARRIER
- SMOKE PARTITION



**G2 1ST LEVEL FLOOR PLAN**  
1/8" = 1'-0"

**CONSULTANTS**

MECHANICAL / ELECTRICAL / PLUMBING:  
**WPE**  
West Plains Engineering, Inc.  
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Rapid City, South Dakota 57702  
Phone: 605-340-7465

STRUCTURAL:  
**Albertson Engineering, Inc.**  
Albertson Engineering, Inc.  
2022 W. Main St., E.C.  
Rapid City, South Dakota 57702  
Phone: 605-343-9609

**ARCHITECT OF RECORD**

**AE:**  
Stone Group Architects  
600 E 7th Street  
Sioux Falls, SD 57103  
605-271-1144

**Office of Construction and Facilities Management**

**VA** U.S. Department of Veterans Affairs

Drawing Title  
**1ST LEVEL FLOOR PLAN & SCHEDULES**

Approved: \_\_\_\_\_

Phase  
**CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**VA FM UPGRADE MENTAL HEALTH LOCK WARD**

Location  
**FORT MEADE, SOUTH DAKOTA**

Issue Date  
**08/29/22**

Checked  
**JHK**

Drawn  
**RMV/DAN**

Project Number  
**VA #568-20-102**  
**SGA #211937**

Building Number  
**148**

Drawing Number  
**AE-101**

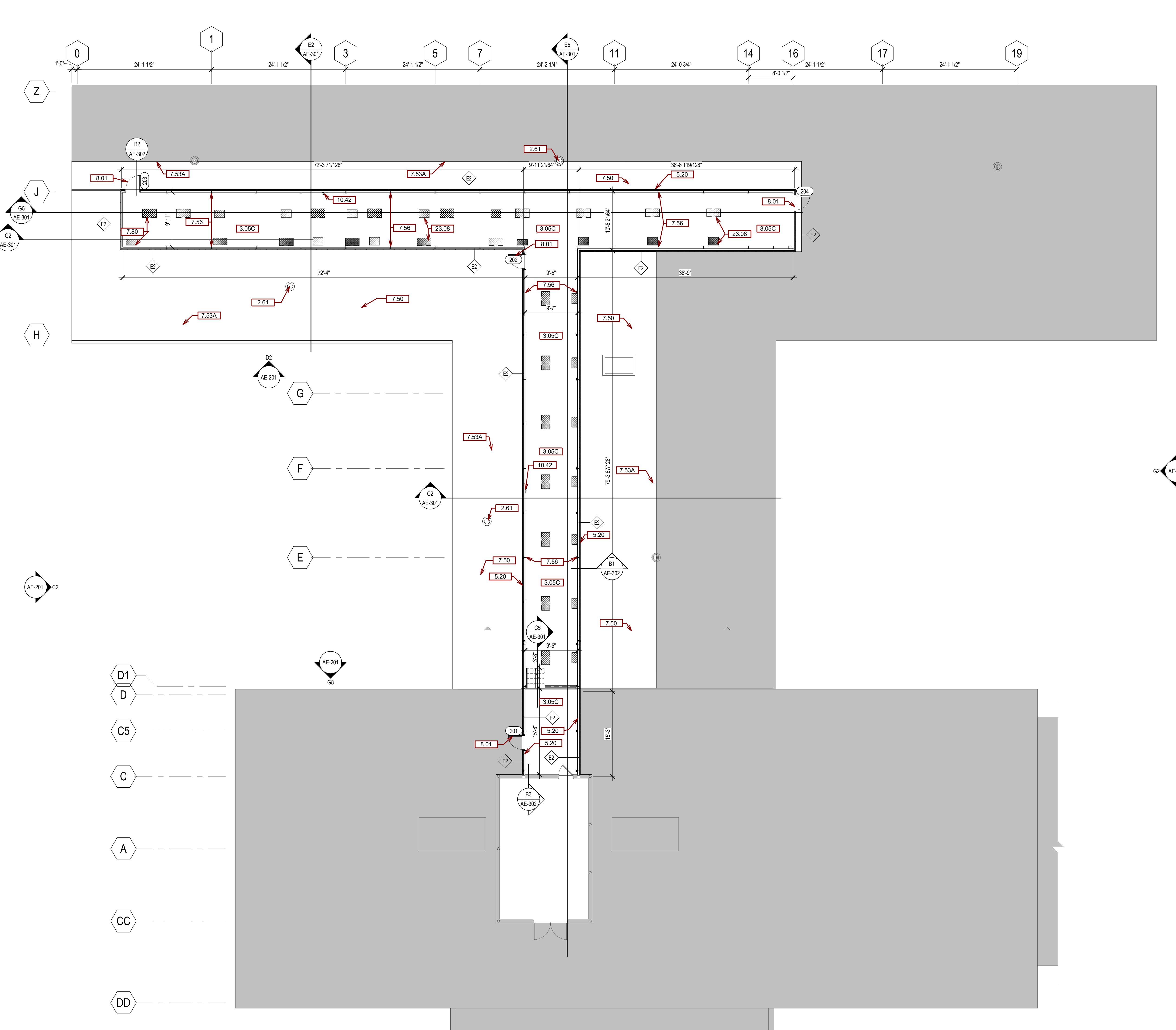
**GENERAL FLOOR PLAN NOTES:**

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- G. PROVIDE WOOD BACKING FOR ALL BATH ACCESSORIES, HANDRAILS, OR OTHER ITEMS ATTACHED TO BUILDING WALLS.
- H. PROVIDE ADA COMPLIANT SIGNAGE FOR ALL REQUIRED AREAS, ROOMS, & ACCESSIBLE PATHS. HEIGHT OF OPERATIONAL OR DISPENSING PORTION OF ACCESSORIES & FIXTURES NOT TO EXCEED 48" A.F.F. SEE SHEET 0-102.
- J. WINDOW AND DOOR TYPES, SEE SCHED.
- K. PROVIDE CONTROL JOINTS IN DRYWALL EVERY 30'-0".
- L. ALL DIMENSIONS ARE TO OUTSIDE OF WALL FRAMING.
- M. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION FOR TILE FLOOR INSTALLATION. CONTRACTOR TO USE SCHLUTER PRODUCTS AS BASIS OF DESIGN FOR WATERPROOFING & KEROL & DITRA PRODUCTS AS APPLICABLE TO MANUFACTURER'S RECOMMENDATIONS.
- O. REPAIR ALL ROOMS THAT HAVE BEEN DEMOLITIONED.
- P. REPLACE ALL WALL BASES AND FLOORING IN DEMO ROOMS.
- Q. REINSTALL AND/OR REPLACE ALL FINISHES AND FURNISHINGS.
- R. INSTALL WALL HANDRAILS IN CORRIDORS.
- S. REMOVE AND REINSTALL PLUMBING FIXTURES AS REQ'D TO ACCOMMODATE TILE REMOVAL. SAVE REMOVED SIGNAGE TO BE PUT BACK WHEN FINISHED.
- T.

SGA KEYNOTES	
Key Value	Keynote Text
2.61	REMOVE EXISTING ROOF DRAIN AND REPLACE WITH NEW DRAIN IN SAME LOCATION.
1.05C	INSTALL 5/8" STRUCTURAL GYPSUM PANEL OVER TOP OF EXISTING ROOF TO PROVIDE CLEAN DECK. SEAL ALL SEAMS WITH LIGHTWEIGHT GYPSUM LEVELING COMPOUND.
3.20	METAL PANEL MATCH EXISTING BUILDING COLOR.
7.50	INSTALL NEW PVC ROOF MEMBRANE SYSTEM.
7.53A	INSTALL POLYISO INSULATION (TAPERED 1" PER 12"). MATCH EXISTING INSULATION THICKNESS AT DRAIN.
7.56	INFILL AROUND COLUMN WITH NON-SHRINK GROUT. SEE STRUCTURAL.
7.80	INSTALL FIRE STOPPING AROUND MECHANICAL PENETRATION.
8.01	DOOR - SEE SCHED.
10.42	WALL-MOUNTED FIRE EXTINGUISHER
23.08	NEW MECH PENETRATIONS. SEE MECH.

WALL TYPES		INDICATED THIS ON FLOOR PLANS
AA	- NON-RATED; 3/8" IMPACT RESISTANT G.W.B., 3/8" STEEL STUD	◊
E2	- NON-RATED; EXTERIOR MTL PANEL ON 3.5" METAL STUD, R-13 BATT AND R-13 CI INSULATION	

**G2 2ND LEVEL PHASES**  
1/8" = 1'-0"



one eighth inch = one foot  
 one quarter inch = one foot  
 one half inch = one foot  
 three eighths inch = one foot  
 one inch = one foot  
 one and one eighth inch = one foot  
 one and one quarter inch = one foot  
 one and one half inch = one foot  
 one and three quarters inch = one foot  
 two inches = one foot  
 two and one eighth inch = one foot  
 two and one quarter inch = one foot  
 two and one half inch = one foot  
 two and three quarters inch = one foot  
 three inches = one foot  
 three and one eighth inch = one foot  
 three and one quarter inch = one foot  
 three and one half inch = one foot  
 three and three quarters inch = one foot  
 four inches = one foot  
 four and one eighth inch = one foot  
 four and one quarter inch = one foot  
 four and one half inch = one foot  
 four and three quarters inch = one foot  
 five inches = one foot  
 five and one eighth inch = one foot  
 five and one quarter inch = one foot  
 five and one half inch = one foot  
 five and three quarters inch = one foot  
 six inches = one foot  
 six and one eighth inch = one foot  
 six and one quarter inch = one foot  
 six and one half inch = one foot  
 six and three quarters inch = one foot  
 seven inches = one foot  
 seven and one eighth inch = one foot  
 seven and one quarter inch = one foot  
 seven and one half inch = one foot  
 seven and three quarters inch = one foot  
 eight inches = one foot  
 eight and one eighth inch = one foot  
 eight and one quarter inch = one foot  
 eight and one half inch = one foot  
 eight and three quarters inch = one foot  
 nine inches = one foot  
 nine and one eighth inch = one foot  
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 ten inches = one foot  
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 eleven inches = one foot  
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 seventeen inches = one foot  
 seventeen and one eighth inch = one foot  
 seventeen and one quarter inch = one foot  
 seventeen and one half inch = one foot  
 seventeen and three quarters inch = one foot  
 eighteen inches = one foot  
 eighteen and one eighth inch = one foot  
 eighteen and one quarter inch = one foot  
 eighteen and one half inch = one foot  
 eighteen and three quarters inch = one foot  
 nineteen inches = one foot  
 nineteen and one eighth inch = one foot  
 nineteen and one quarter inch = one foot  
 nineteen and one half inch = one foot  
 nineteen and three quarters inch = one foot  
 twenty inches = one foot

Revision#	Description	Date:

**CONSULTANTS**

**MECHANICAL / ELECTRICAL / PLUMBING:**  
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**STRUCTURAL:**  
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**ARCHITECT OF RECORD**

**A/E:**  
**Stone Group Architects**  
 600 E 7th Street  
 Sioux Falls, SD 57103  
 605-271-1144

**Office of Construction and Facilities Management**

**U.S. Department of Veterans Affairs**

**Drawing Title**  
2ND LEVEL FLOOR PLAN

**Phase**  
CONSTRUCTION DOCUMENTS

**Project Title**  
VA FM UPGRADE MENTAL HEALTH LOCK WARD

**Project Number**  
VA #568-20-102  
SGA #211937

**Building Number**  
148

**Drawing Number**  
AE-102

**Location**  
FORT MEADE, SOUTH DAKOTA

**Issue Date**  
08/29/22

**Checked**  
JHK

**Drawn**  
RMV/DAN

**STAMP**

**Office of Construction and Facilities Management**

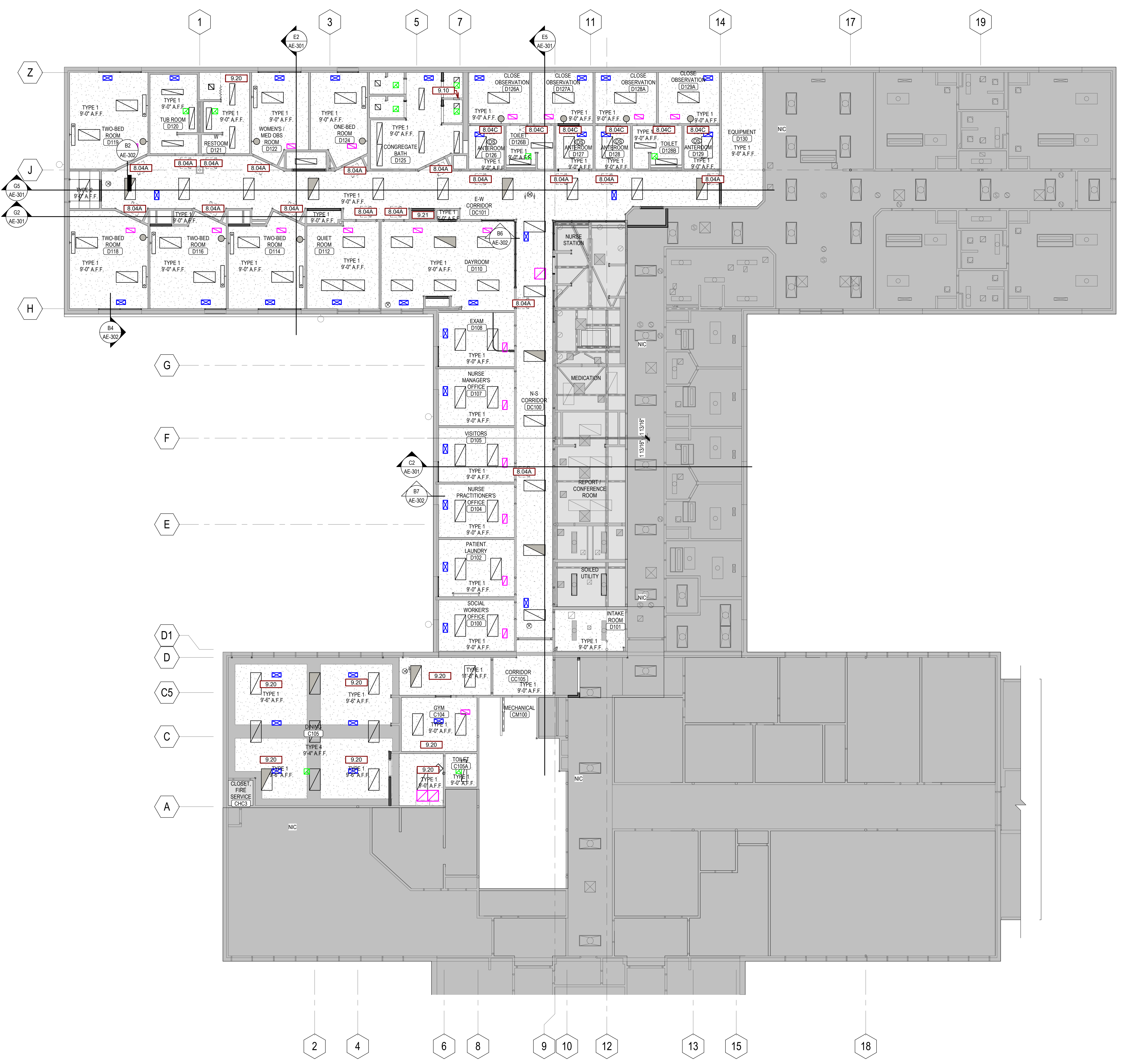
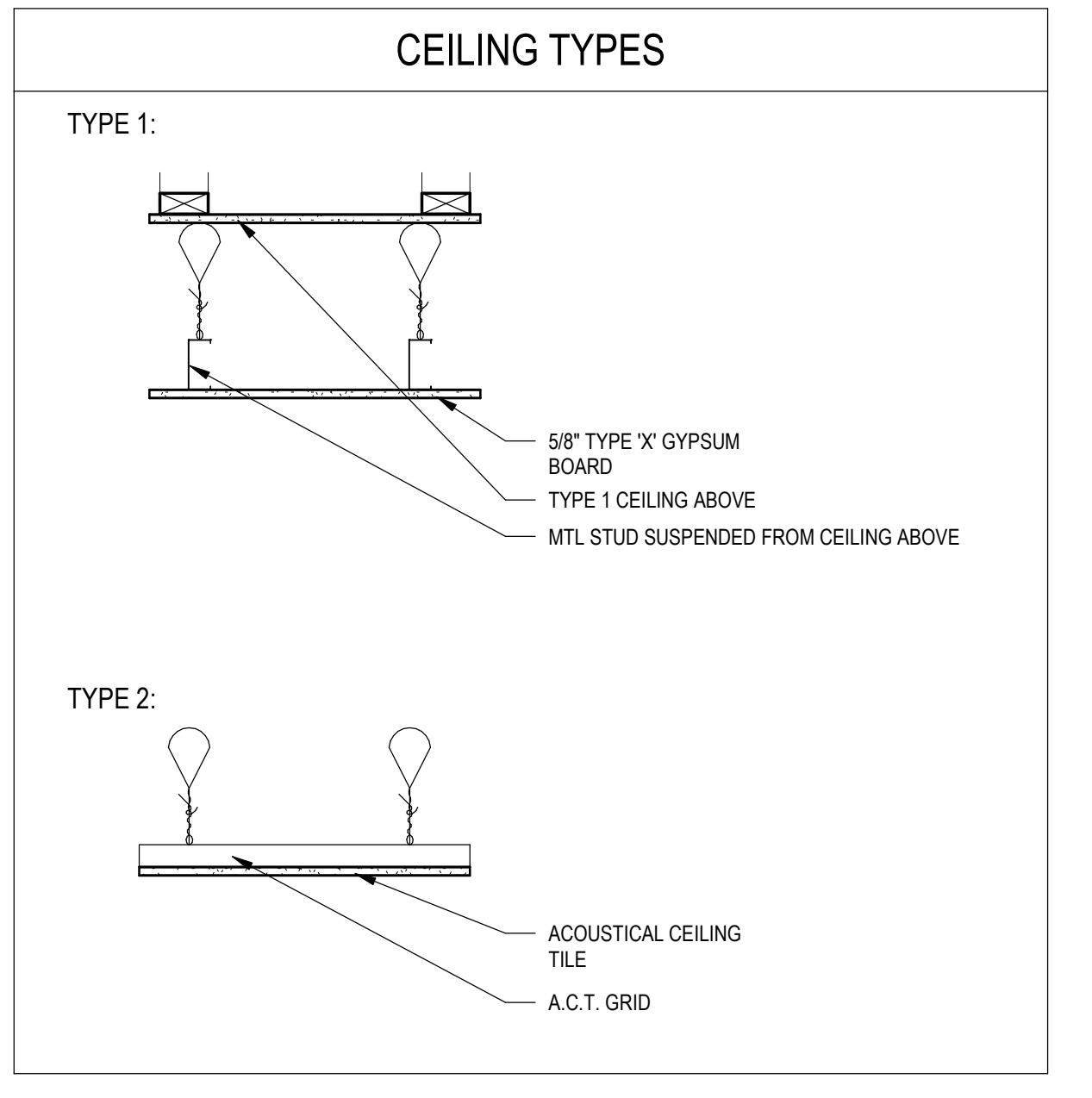
**U.S. Department of Veterans Affairs**

**Approved:**

**FULLY SPRINKLERED**

- GENERAL RCP NOTES:**
- ANY DISCREPANCIES FOUND IN THE VARIOUS PARTS OF THE CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECTS AND THE OWNER BEFORE PROCEEDING WITH ALL THE WORK.
  - ALL ITEMS INSTALLED IN CEILINGS ARE TO BE CENTERED AND/OR SYMMETRICAL ON THE CENTERLINE OF ROOMS AND CEILING IN TILES.
  - INSTALL ALL WALL MOUNTED EXIT SIGNS AND OTHER FIXTURES CENTERED ABOVE OPENINGS WHERE POSSIBLE.
  - REFLECTED CEILING PLANS SHOW LOCATIONS OF ITEMS THAT ARE ARCHITECTURALLY SIGNIFICANT ONLY. MECHANICAL AND ELECTRICAL ITEMS INDICATED ARE FOR REFERENCE ONLY. REFER TO MECHANICAL AND ELECTRICAL DOCUMENTS.
  - GYPSUM USED IN RESTROOM AND OTHER AREAS EXPOSED TO MOISTURE SHALL BE WATER RESISTANT GYPSUM BOARD.
  - PAINT HORIZONTAL AND VERTICAL FACES OF THE SOFFITS SPECIFIED PAINT COLOR, UNLESS NOTED OTHERWISE.
  - ALL BULKHEAD HORIZONTAL AND VERTICAL FACES TO BE PAINTED PT-4, UNLESS NOTED OTHERWISE.
  - ALL GYPSUM BOARD CEILINGS TO BE PAINTED PT-4, UNLESS OTHERWISE NOTED.
  - ALL BULKHEADS TO EXTEND PAST ADJACENT CEILING HEIGHT 2' UNLESS OTHERWISE NOTED.
  - AT RCP SECTIONS REFER TO REFLECTED CEILING PLAN FOR CEILING/SOFFIT ELEVATIONS.

SGA KEYNOTES	
Key Value	Keynote Text
8.04A	2'x2' ACCESS PANEL FOR DOOR ALARM
8.04C	18"x18" ACCESS PANEL FOR DOOR ALARM
9.10	FILL, PATCH AND NEW FINISH FOR OPENING IN WALL
9.20	GYPSUM CEILING BOARD
9.21	GYPSUM CEILING BOARD TO BE FLUSH WITH TOP OF LOCKERS.



**G2 1ST LEVEL REFLECTED CEILING PLAN**  
1/8" = 1'-0"

Vertical scale markers on the left side of the drawing, indicating dimensions in feet and inches for various grid lines.

Revision#	Description	Date:

**CONSULTANTS**

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Sioux Falls, SD 57103  
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**STONE GROUP ARCHITECTS**

**STAMP**

**Office of Construction and Facilities Management**

**VA U.S. Department of Veterans Affairs**

**Drawing Title**  
1ST FLOOR REFLECTED CEILING PLAN

**Project Title**  
CONSTRUCTION DOCUMENTS

**Phase**  
FULLY SPRINKLERED

**Project Title**  
VA FM UPGRADE MENTAL HEALTH LOCK WARD

**Location**  
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**Issue Date**  
08/29/22

**Checked**  
JHK

**Drawn**  
RMV/DAN

**Project Number**  
VA #568-20-102  
SGA #211937

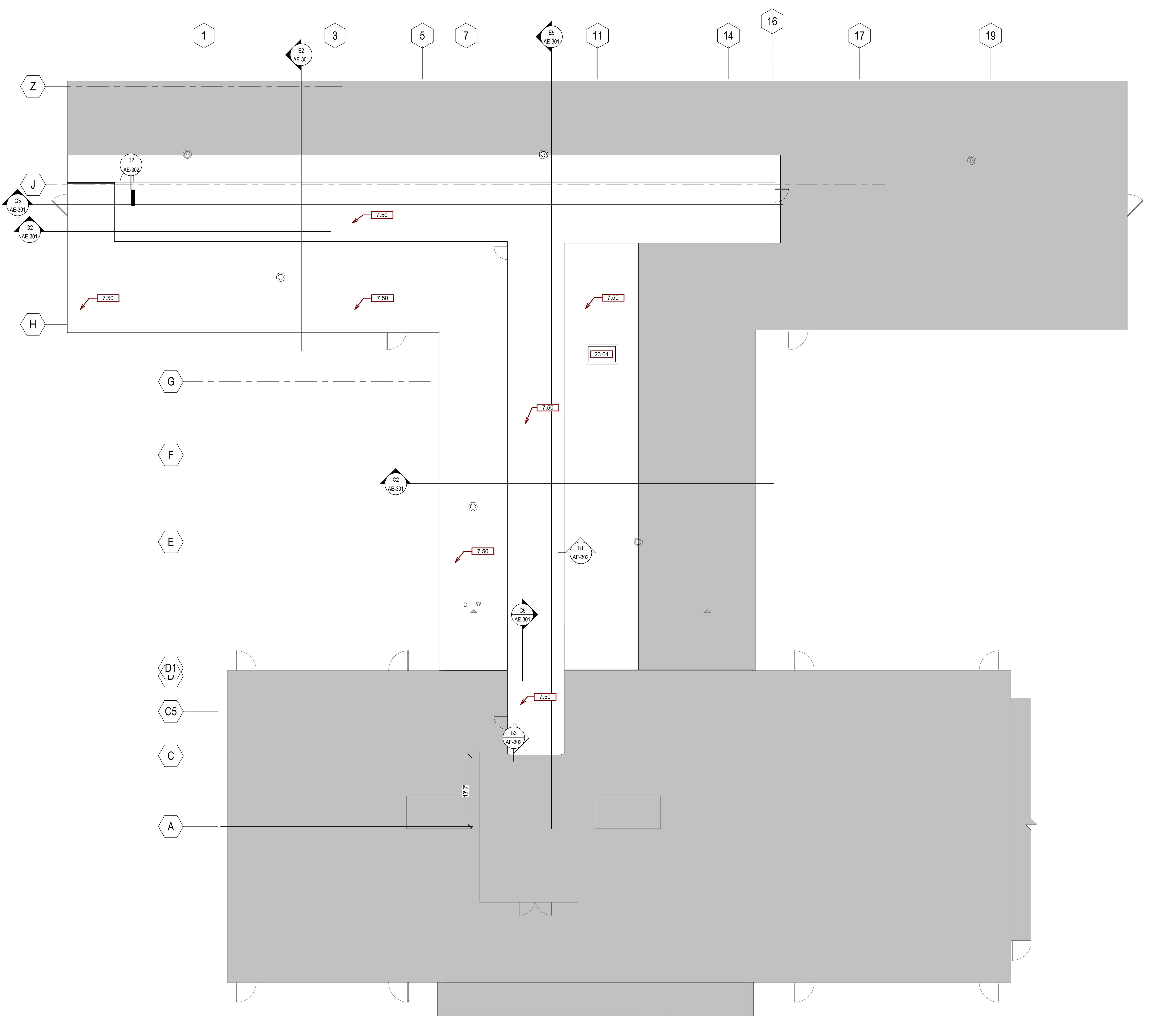
**Building Number**  
148

**Drawing Number**  
AE-110

**GENERAL ROOF NOTES:**

- A. PROVIDE SEALANT AT ALL INTERIOR AND EXTERIOR JOINTS BETWEEN DIFFERENT MATERIALS, TRANSITIONS, AND ACCORDING TO INDUSTRY STANDARDS AND MANUFACTURER'S SPECIFICATIONS.
- B. ROOF VENTING @ 1300 FOR RIDGE & SOFFIT VENTS. SEE MANUFACTURER.
- C. VENT STACKS AS REQUIRED. SEE MANUFACTURER.
- D. ROOF SHALL BE A 1/4" / 12' SLOPE PVC TO MATCH EXISTING ROOF MATERIAL.

SGA KEYNOTES	
Key Value	Keynote Text
7.50	INSTALL NEW PVC ROOF MEMBRANE SYSTEM
23.01	MECH ELEMENT ON 6" ROOF CURB - SEE MECH DRAWINGS.



**G2 ROOF PLAN**  
1/8" = 1'-0"

Revision#	Description	Date:

**CONSULTANTS**

**MECHANICAL / ELECTRICAL / PLUMBING:**  
**WPE**  
 West Plains Engineering, Inc.  
 1750 Rand Road  
 Rapid City, South Dakota 57702  
 Phone: 605-346-7455

**STRUCTURAL:**  
 Albertson Engineering, Inc.  
 2022 W. Main St., 8C  
 Rapid City, South Dakota 57702  
 Phone: 605-343-8600

**ARCHITECT OF RECORD**

**A/E:**  
 Stone Group Architects  
 600 E 7th Street  
 Sioux Falls, SD 57103  
 605-271-1144

**STAMP**

**STONE GROUP ARCHITECTS**

**Office of Construction and Facilities Management**

**VA** U.S. Department of Veterans Affairs

Drawing Title  
**ROOF PLAN**

Approved:

Phase  
**CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**VA FM UPGRADE MENTAL HEALTH LOCK WARD**

Location  
**FORT MEADE, SOUTH DAKOTA**

Issue Date  
**08/29/22**

Checked  
**JHK**

Drawn  
**RMV/DAN**

Project Number  
**VA #568-20-102 SGA #211937**

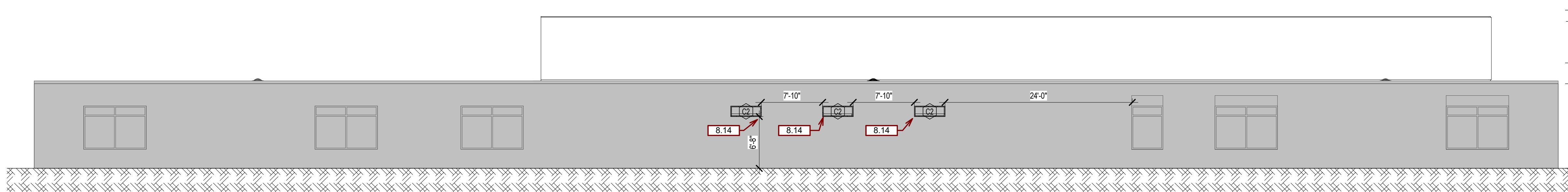
Building Number  
**148**

Drawing Number  
**AE-120**

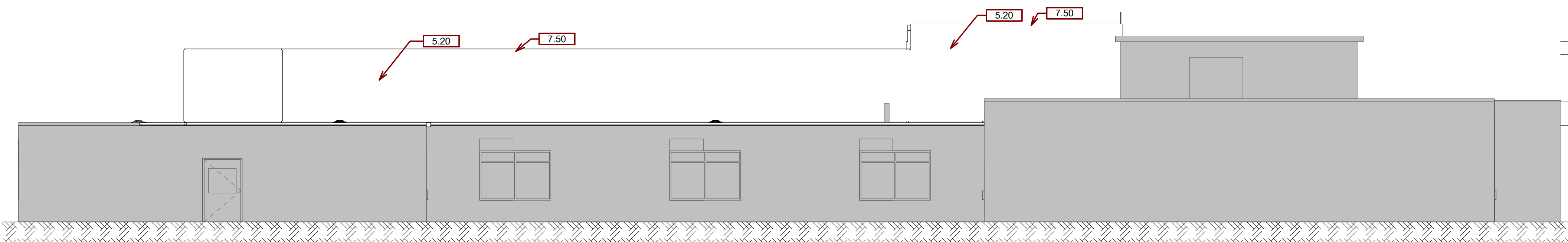
**GENERAL ELEVATION NOTES:**

- A. ANY DISCREPANCIES OR CONFLICTS FOUND IN THE VARIOUS PARTS OF THE CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE OWNER BEFORE PROCEEDING WITH THE WORK.
- B. FURNITURE IS PROVIDED AND INSTALLED BY OTHERS.
- C. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. DO NOT SCALE THE DRAWINGS.
- D. CONTRACTOR & SUBCONTRACTORS TO VERIFY ALL EXISTING CONDITIONS AT THE PROJECT SITE. ALL MATERIALS & EQUIPMENT SHALL BE INSTALLED PER MANUFACTURERS INSTRUCTIONS.
- E. DETAILS SHOWN ARE TYPICAL UNLESS OTHERWISE NOTED. SIMILAR DETAILS APPLY IN SIMILAR CONDITIONS.
- F. PROVIDE WOOD BACKING FOR ALL BATH ACCESSORIES, HANDRAILS, OR OTHER ITEMS ATTACHED TO BUILDING WALLS.
- G. GYPSUM USED IN RESTROOMS SHALL BE WATER RESISTANT GYPSUM BOARD. USE DURAROCK @ ALL PORCELAIN & CERAMIC TILE LOCATIONS.
- H. PROVIDE ADA COMPLIANT SIGNAGE FOR ALL REQUIRED AREAS, ROOMS, & ACCESSIBLE PATHS. HEIGHT OF OPERATIONAL OR DISPENSING PORTION OF ACCESSORIES & FIXTURES NOT TO EXCEED 48" A.F.F.

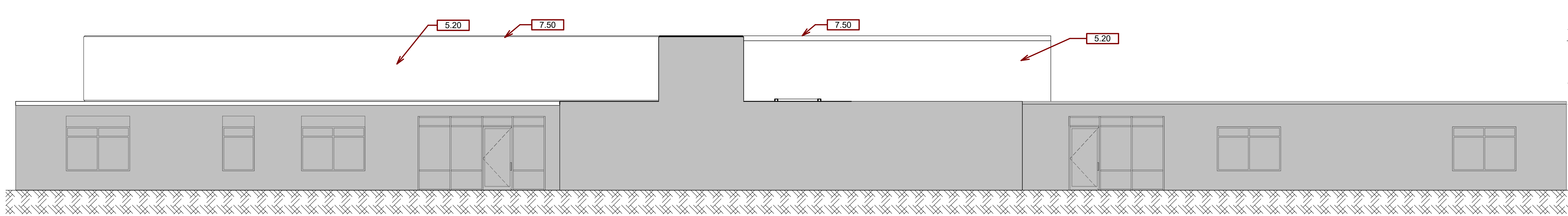
SGA KEYNOTES	
Key Value	Keynote Text
5.20	METAL PANEL MATCH EXISTING BUILDING COLOR
7.50	INSTALL NEW PVC ROOF MEMBRANE SYSTEM
8.14	INSTALL NEW MENTAL HEALTH RATED EXTERIOR GLAZING IN EXISTING ALUMINUM FRAME AND DOOR. -SEE SPECS.



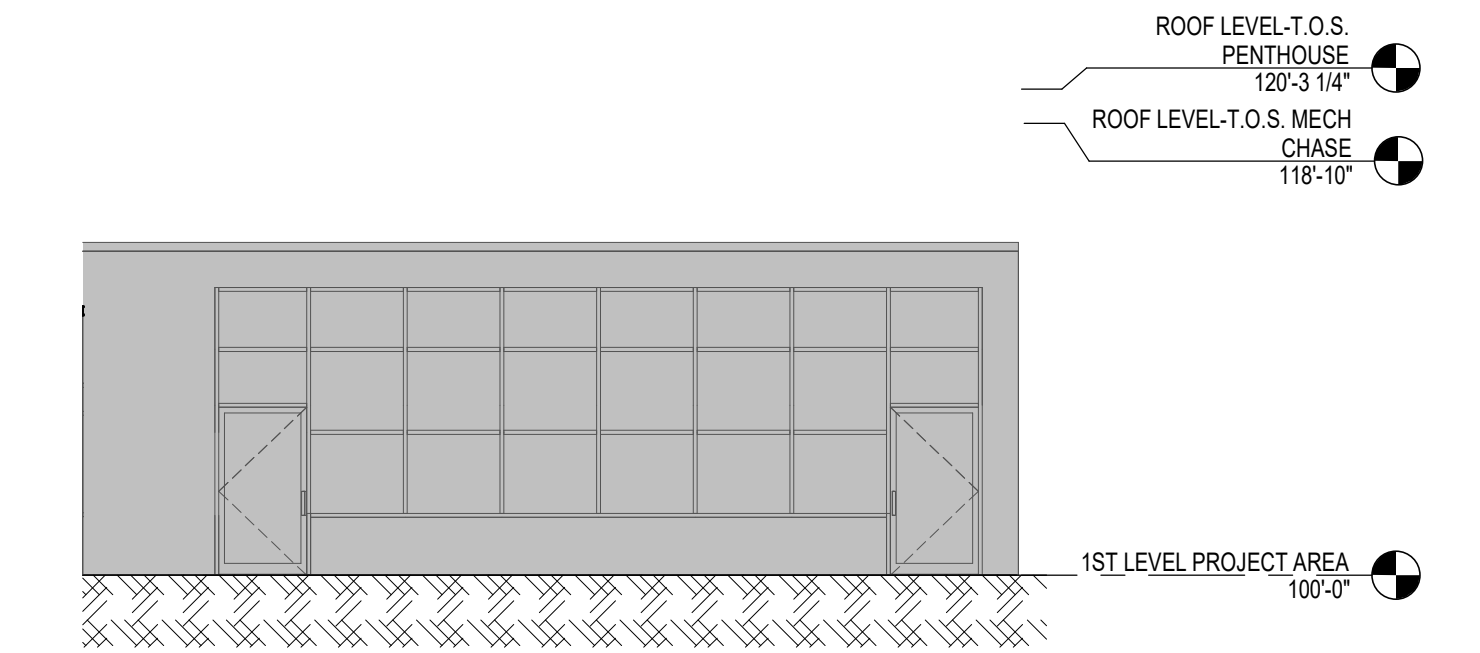
- PARAPET 126'-0"
- ROOF LEVEL-T.O.S. PENTHOUSE 120'-3 1/4"
- ROOF LEVEL-T.O.S. MECH CHASE 118'-10"
- ROOF LEVEL 2-T.O.S. 113'-8"
- ROOF LEVEL 1-T.O.S. 110'-10"
- 1ST LEVEL PROJECT AREA 100'-0"



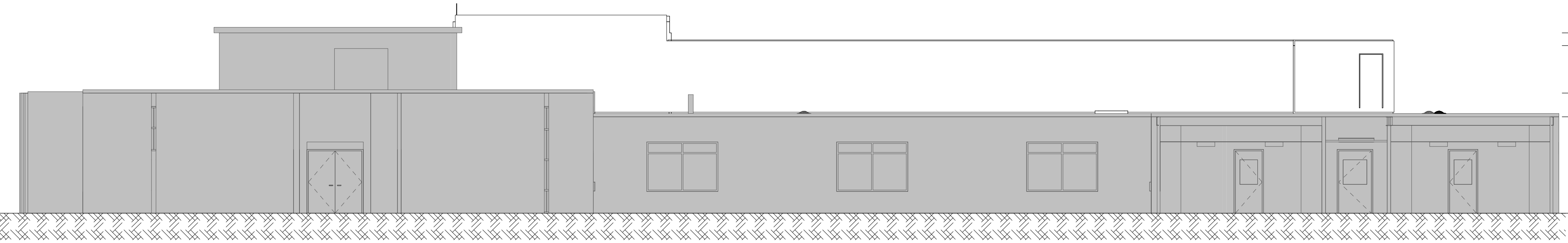
- ROOF LEVEL-T.O.S. PENTHOUSE 120'-3 1/4"
- ROOF LEVEL-T.O.S. MECH CHASE 118'-10"
- ROOF LEVEL 2-T.O.S. 113'-8"
- ROOF LEVEL 1-T.O.S. 110'-10"
- 1ST LEVEL PROJECT AREA 100'-0"



- ROOF LEVEL-T.O.S. PENTHOUSE 120'-3 1/4"
- ROOF LEVEL-T.O.S. MECH CHASE 118'-10"
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- ROOF LEVEL 1-T.O.S. 110'-10"
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- 1ST LEVEL PROJECT AREA 100'-0"



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- ROOF LEVEL 2-T.O.S. 113'-8"
- ROOF LEVEL 1-T.O.S. 110'-10"
- 1ST LEVEL PROJECT AREA 100'-0"

Revision#	Description	Date:

**CONSULTANTS**

**MECHANICAL / ELECTRICAL / PLUMBING:**  
**WPE**  
 West Plains Engineering, Inc.  
 1750 Rand Road  
 Rapid City, South Dakota 57702  
 Phone: 605-340-7455

**STRUCTURAL:**  
**Albertson Engineering, Inc.**  
 2022 W. Main St., 8C  
 Rapid City, South Dakota 57702  
 Phone: 605-343-8600

**ARCHITECT OF RECORD**

**A/E:**  
**Stone Group Architects**  
 600 E 7th Street  
 Sioux Falls, SD 57103  
 605-271-1144

**STONE GROUP ARCHITECTS**

**STAMP**

**Office of Construction and Facilities Management**

**VA U.S. Department of Veterans Affairs**

**Drawing Title**  
**ELEVATIONS**

**Approved:**

**Phase**  
**CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

**Project Title**  
**VA FM UPGRADE MENTAL HEALTH LOCK WARD**

**Location**  
**FORT MEADE, SOUTH DAKOTA**

**Issue Date**  
 08/29/22

**Checked**  
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**Drawn**  
 RMV/DAN

**Project Number**  
 VA #568-20-102  
 SGA #211937

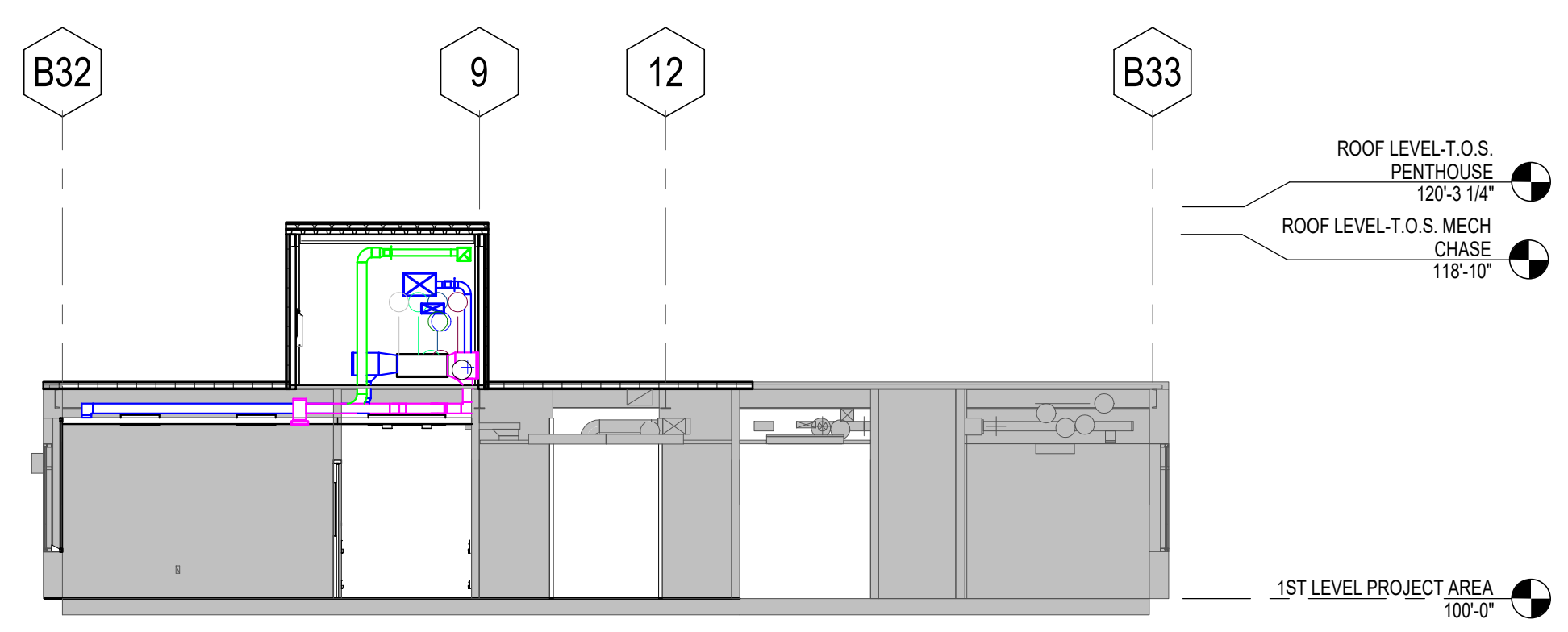
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**Drawing Number**  
 AE-201

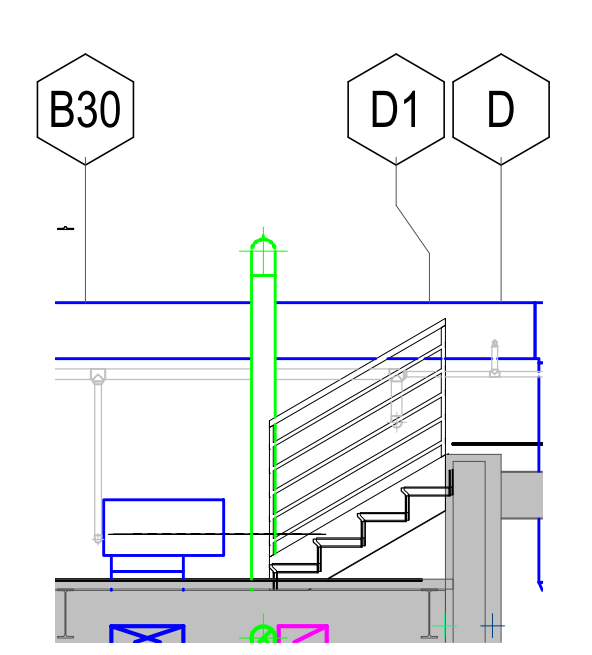
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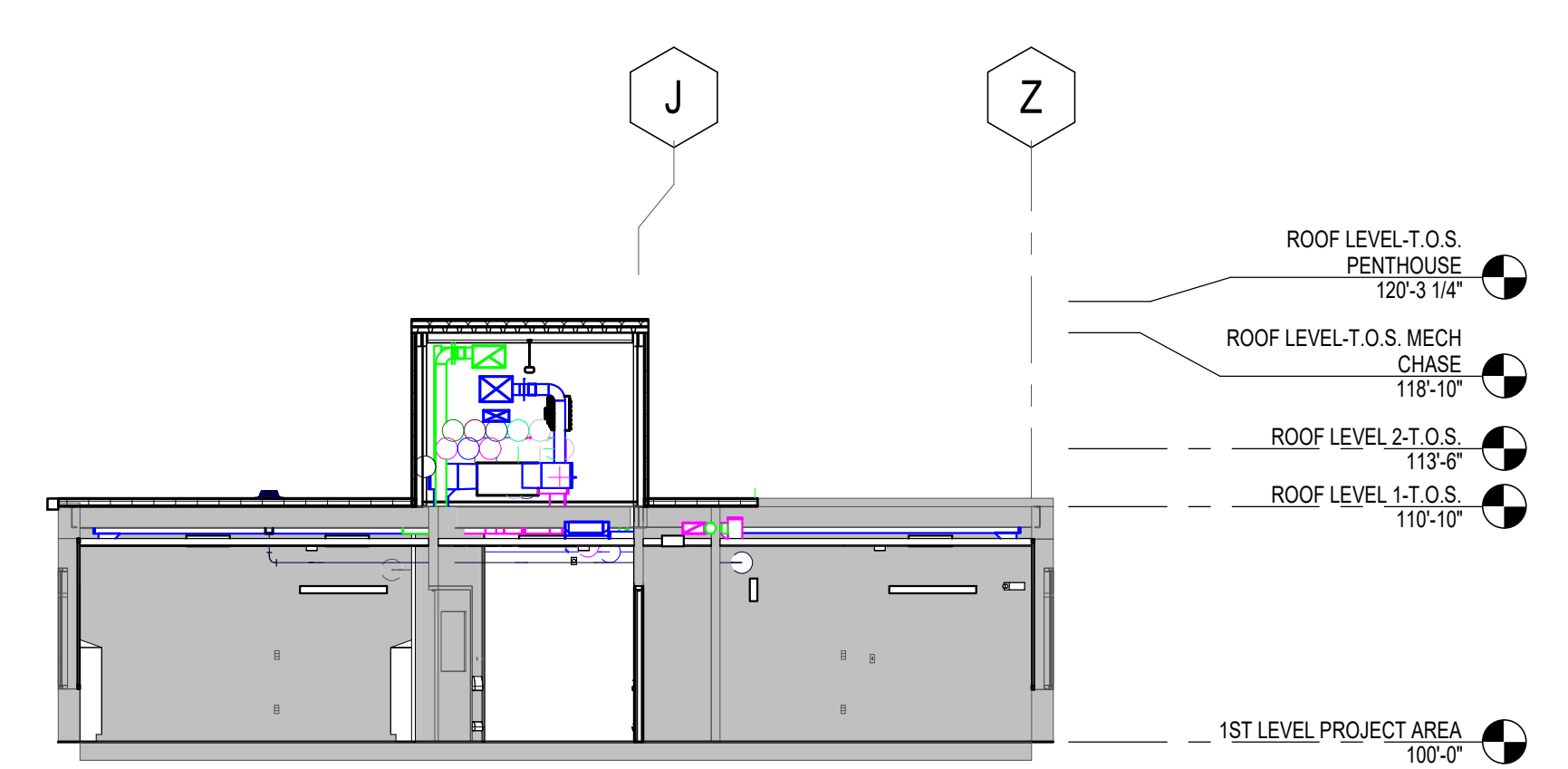
SGA KEYNOTES	
Key Value	Keynote Text



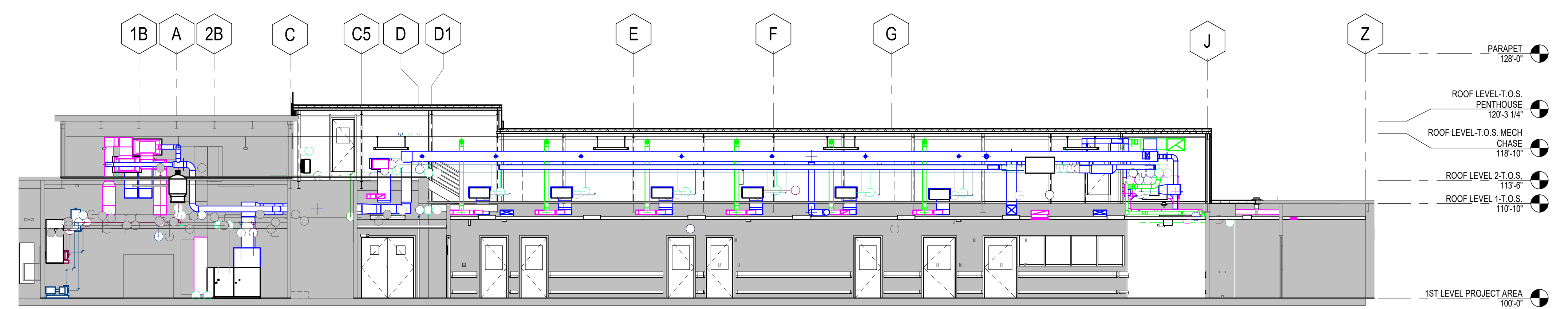
**BUILDING SECTION - MECHANICAL CONNECTION**  
**C2**  
 1/8" = 1'-0"



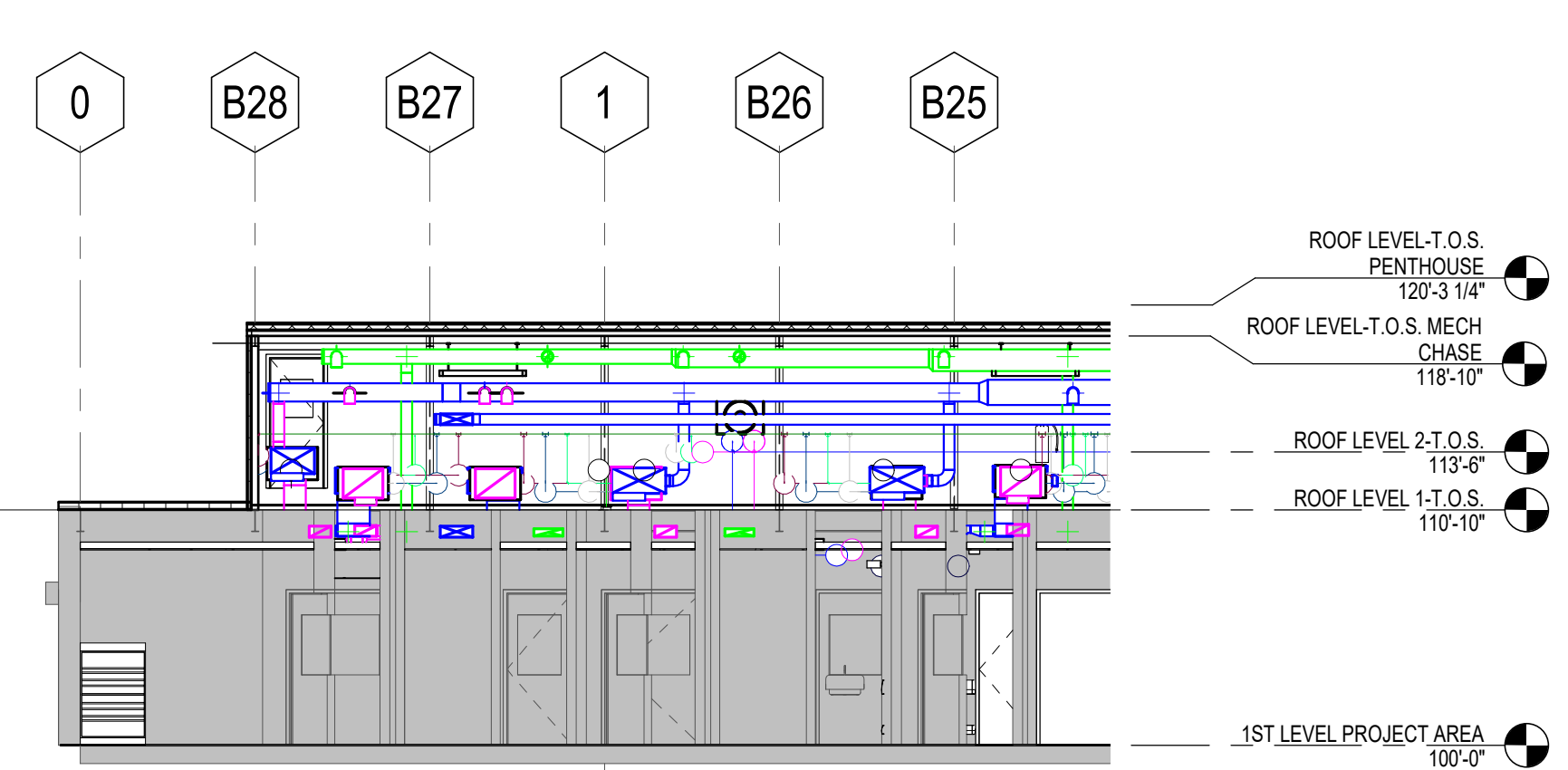
**SECTION - PENTHOUSE STEP DOWN STAIR**  
**C5**  
 1/4" = 1'-0"



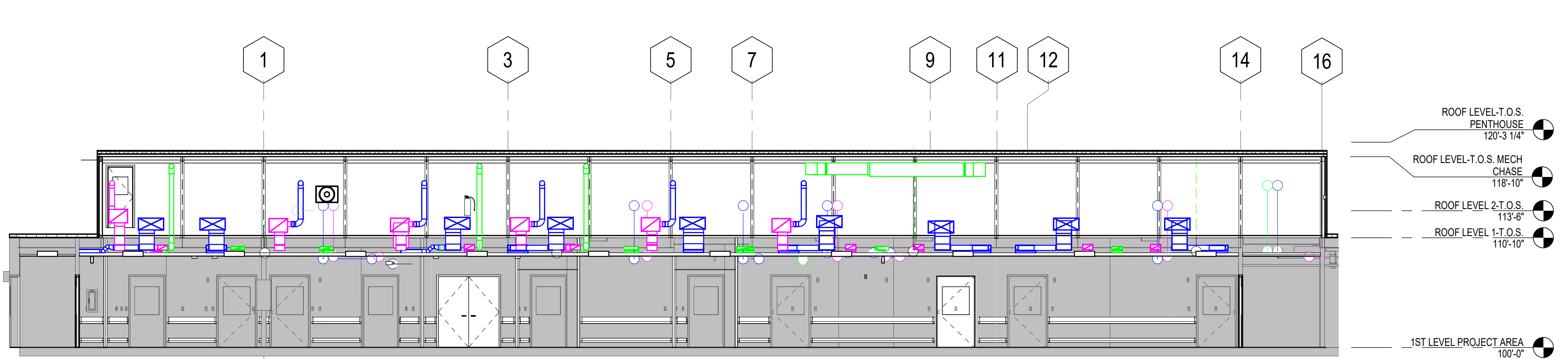
**BUILDING SECTION - MECHANICAL SECOND FLOOR**  
**E2**  
 1/8" = 1'-0"



**BUILDING SECTION - MECHANICAL SECOND FLOOR ACCESS**  
**E5**  
 1/8" = 1'-0"



**BUILDING SECTION - STRUCTURE AND MECHANICAL CONNECTION ON ROOF**  
**G2**  
 1/8" = 1'-0"



**BUILDING SECTION - MECHANICAL DOWN CORRIDOR ON ROOF**  
**G5**  
 1/8" = 1'-0"

Revision#	Description	Date:

**CONSULTANTS**

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 Sioux Falls, SD 57103  
 605-271-1144



**STAMP**

**Office of Construction and Facilities Management**

**VA** U.S. Department of Veterans Affairs

Drawing Title  
**BUILDING SECTIONS**

Approved: \_\_\_\_\_

Phase  
**CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**VA FM UPGRADE MENTAL HEALTH LOCK WARD**

Location  
**FORT MEADE, SOUTH DAKOTA**

Issue Date  
 08/29/22

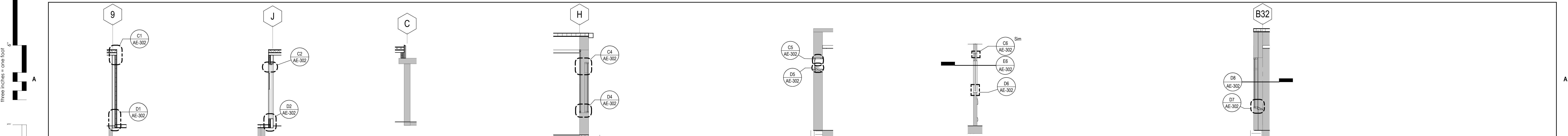
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 JHK

Drawn  
 RMV/DAN

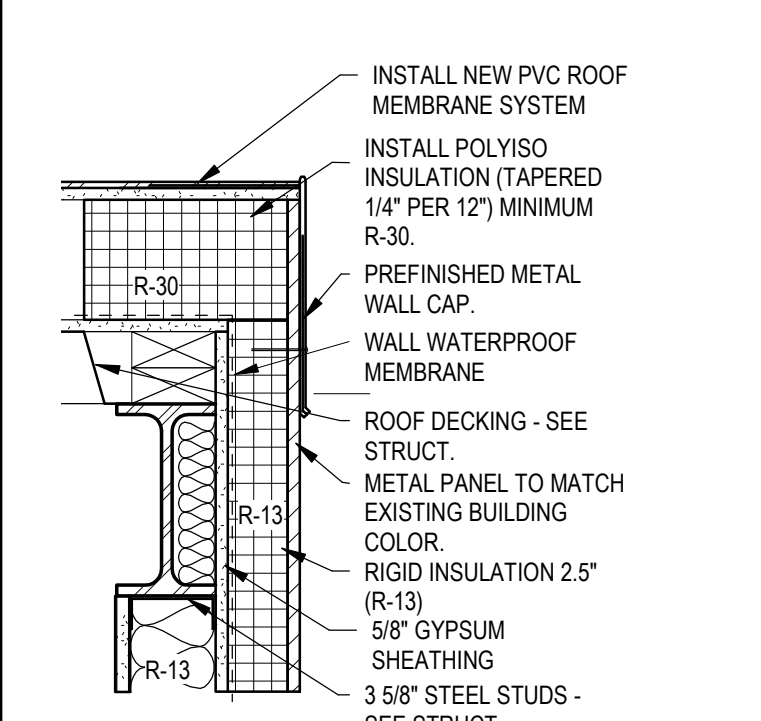
Project Number  
 VA #568-20-102  
 SGA #211937

Building Number  
 148

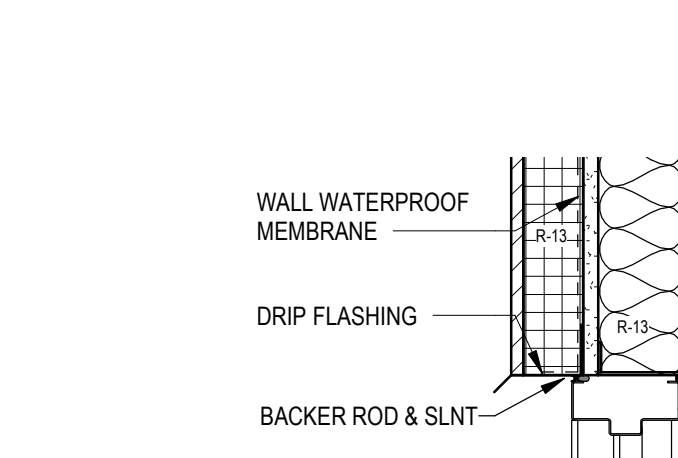
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**B1 WALL SECTION -IMP 4" MEETS ROOF CURB**  
1/4" = 1'-0"



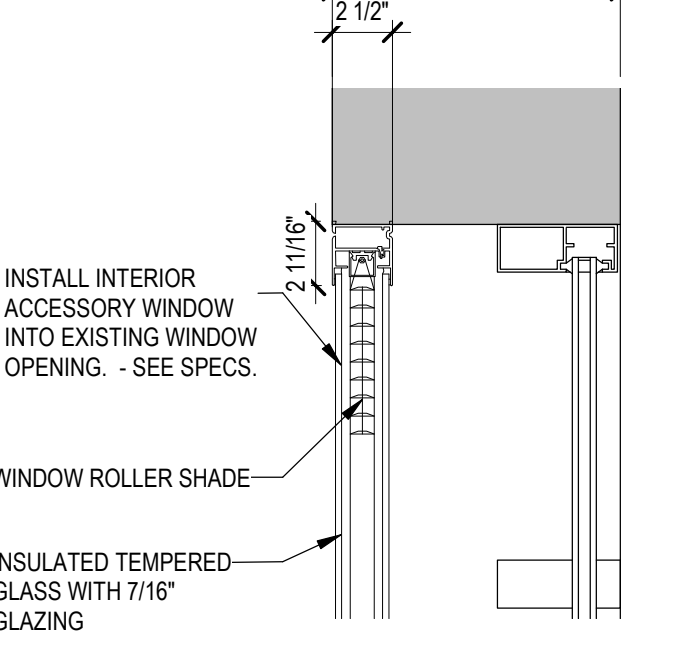
**B2 WALL SECTION -IMP 4" WALL WITH DOOR**  
1/4" = 1'-0"



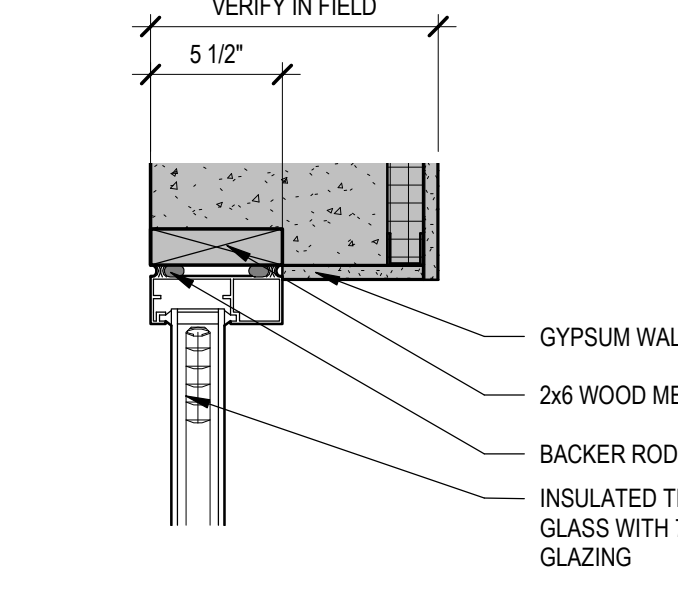
**B3 WALL SECTION - PENTHOUSE CONNECTION**  
1/4" = 1'-0"



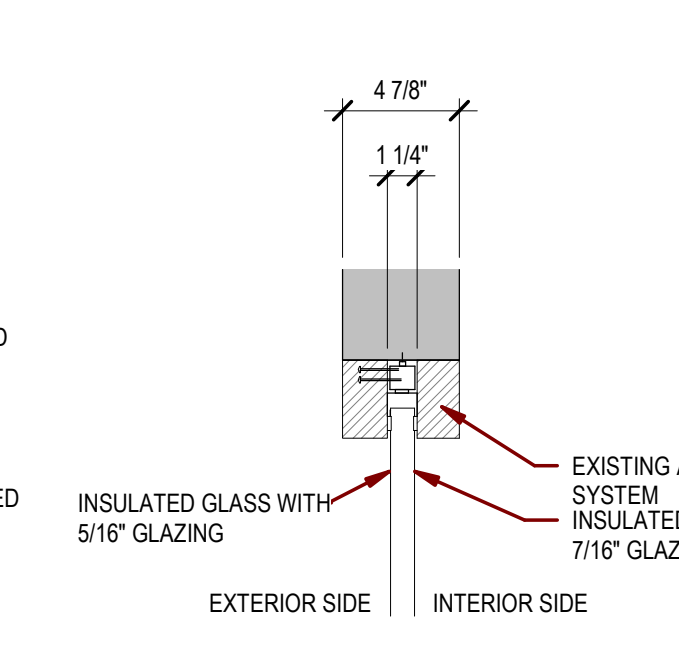
**B4 WALL SECTION - WAUSAU INTERIOR WINDOW**  
1/4" = 1'-0"



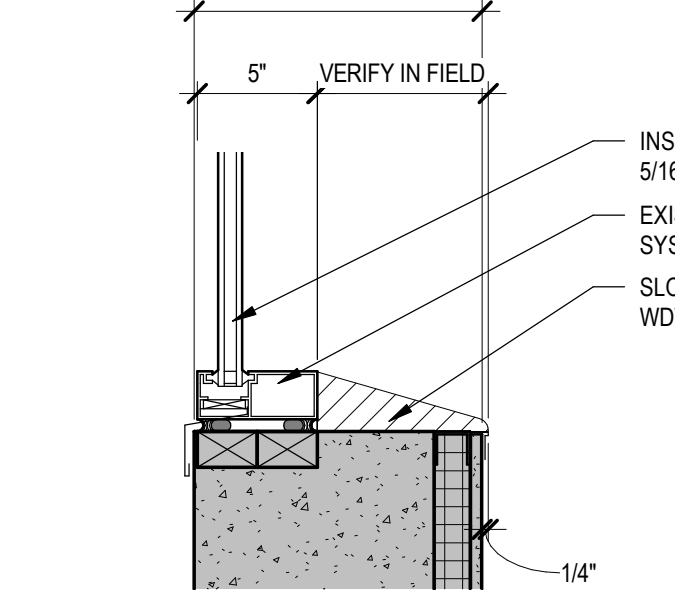
**B5 WALL SECTION - CLOSED OBSERVATION WINDOW**  
1/4" = 1'-0"



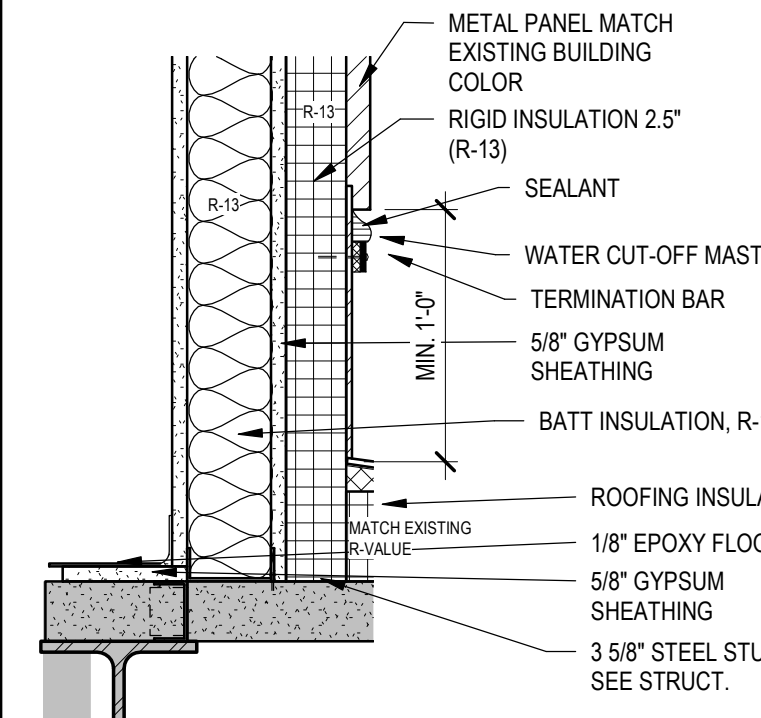
**B6 WALL SECTION - DAY ROOM WINDOW**  
1/4" = 1'-0"



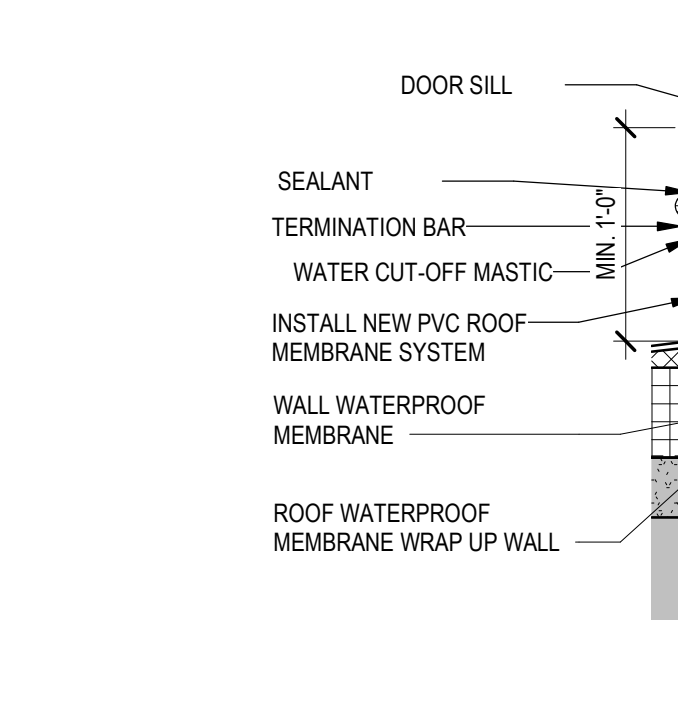
**B7 WALL SECTION -NURSE PRACTITIONER'S OFFICE D104 WND**  
1/4" = 1'-0"



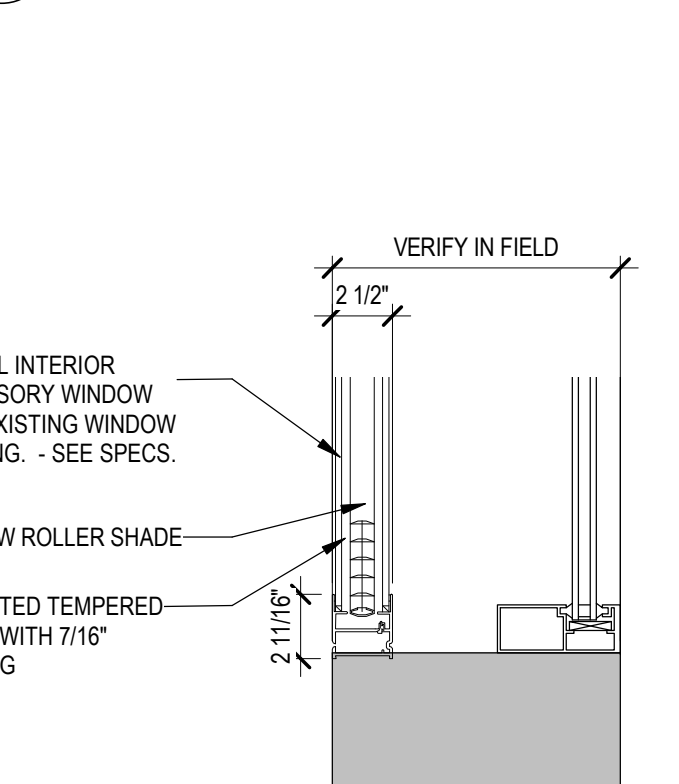
**C1 DETAIL SECTION - PENTHOUSE ROOF TO WALL**  
1 1/2" = 1'-0"



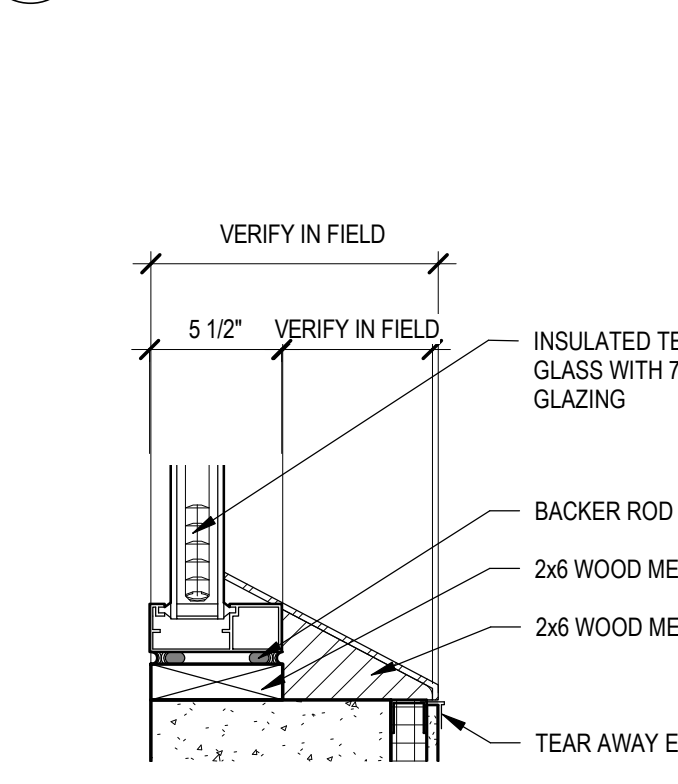
**C2 DETAIL SECTION - PENTHOUSE WALL DOOR HEAD**  
1 1/2" = 1'-0"



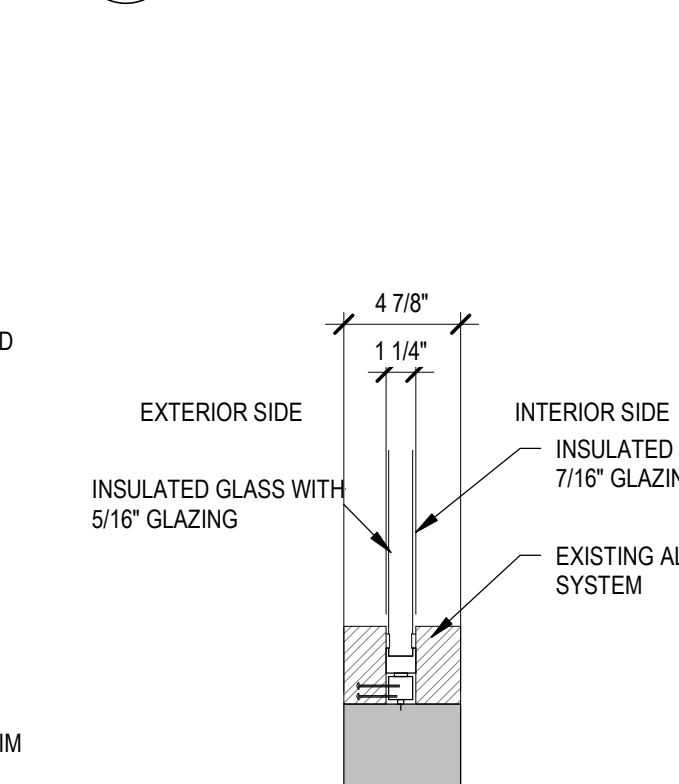
**C4 DETAIL SECTION - WAUSAU WND HEAD**  
1 1/2" = 1'-0"



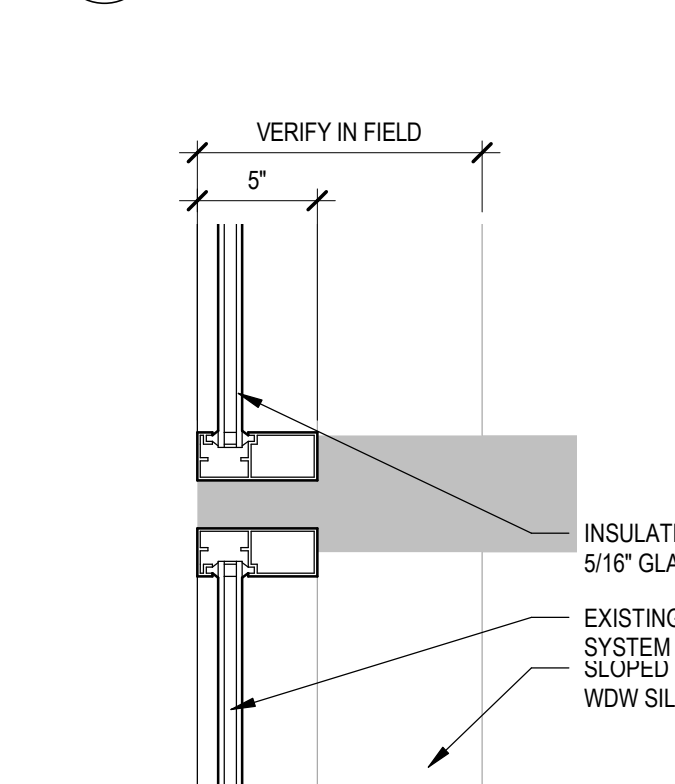
**C5 DETAIL SECTION - CLSD OBSERVATION RM WDW HEAD**  
1 1/2" = 1'-0"



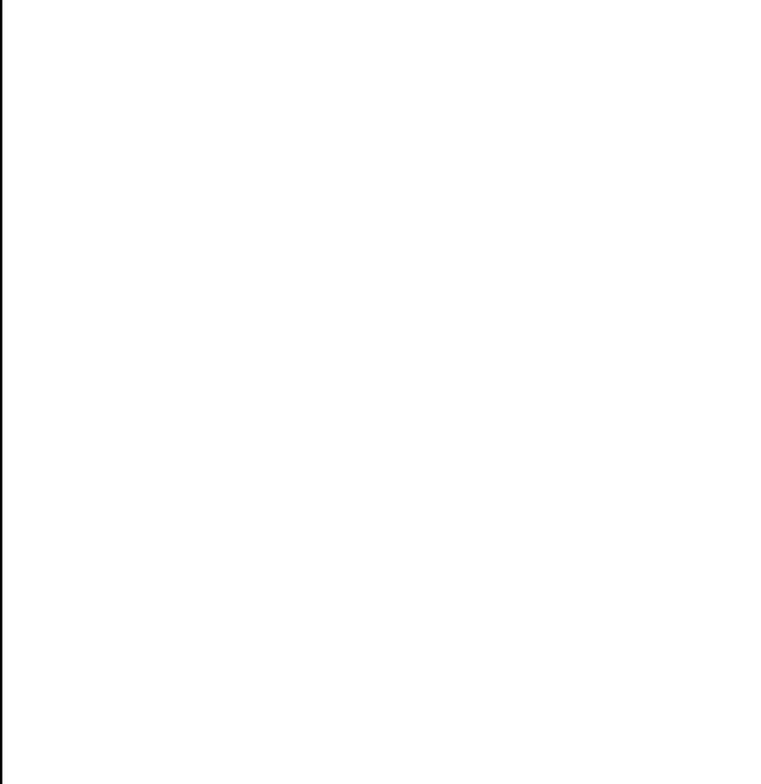
**C6 DETAIL SECTION - DAY ROOM WDW REPLACEMENT**  
1 1/2" = 1'-0"



**D7 DETAIL SECTION - NURSE PRACTITIONER'S OFFICE D104 WND SILL**  
1 1/2" = 1'-0"



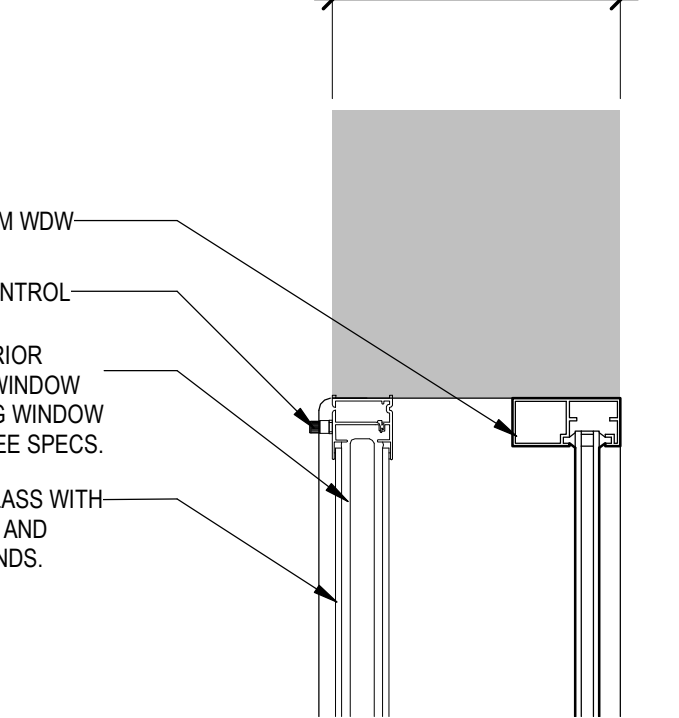
**D1 DETAIL SECTION - PENTHOUSE WALL TO EXISTING ROOF**  
1 1/2" = 1'-0"



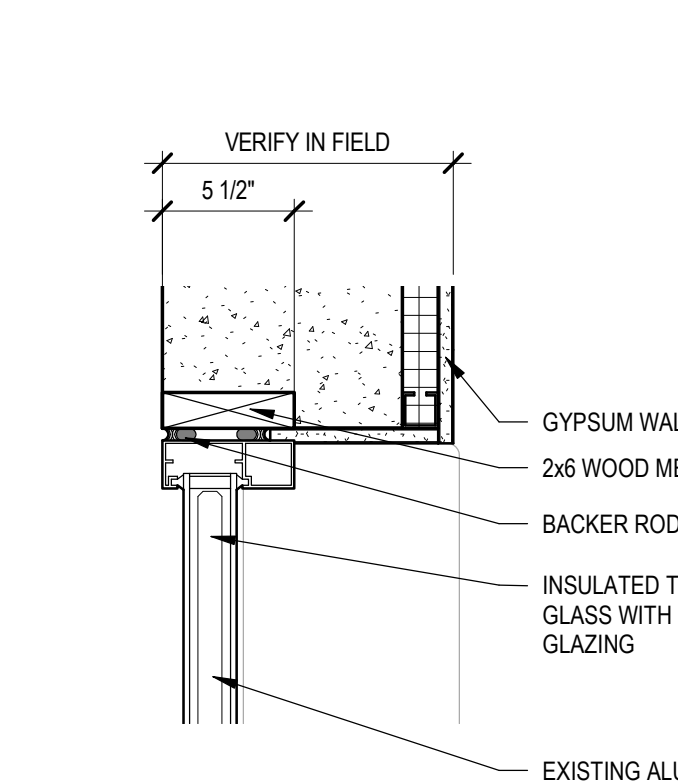
**D2 DETAIL SECTION - PENTHOUSE WALL DOOR THRESHOLD**  
1 1/2" = 1'-0"



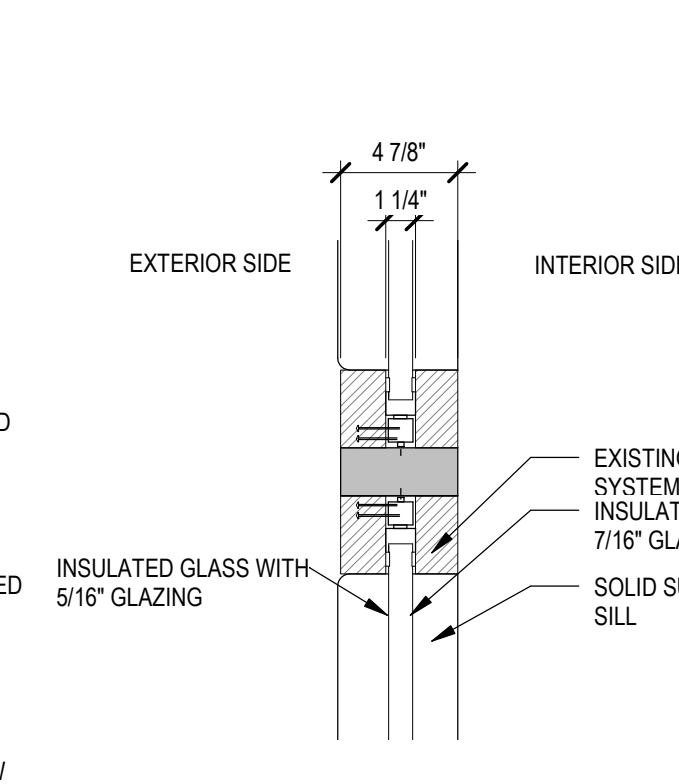
**D4 DETAIL SECTION - WAUSAU WND SILL**  
1 1/2" = 1'-0"



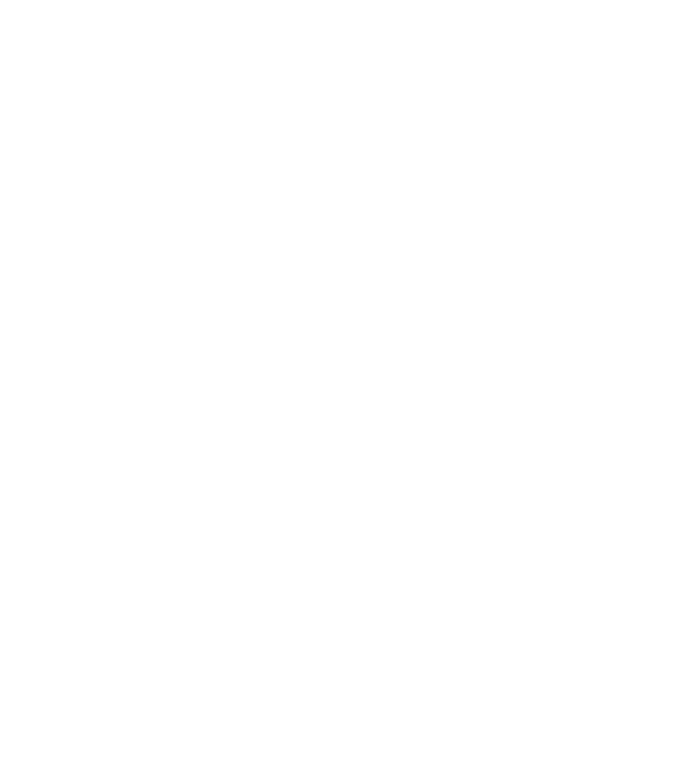
**D5 DETAIL SECTION - CLSD OBSERVATION WDW SILL**  
1 1/2" = 1'-0"



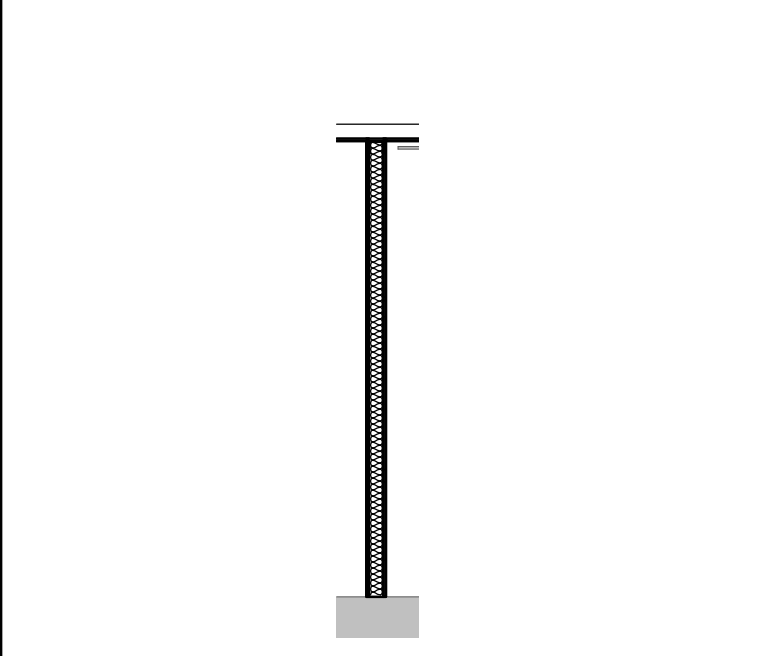
**D6 DETAIL SECTION - DAY ROOM WDW SILL**  
1 1/2" = 1'-0"



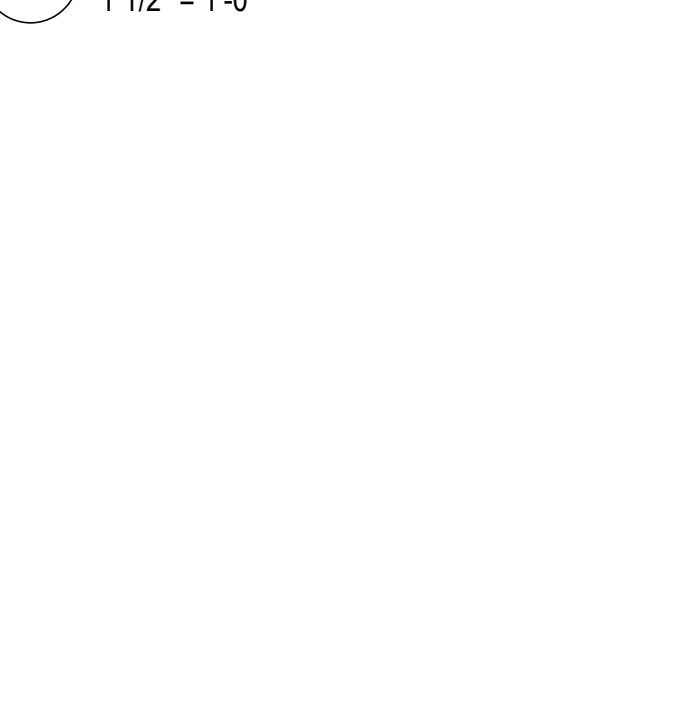
**D8 PLAN DETAIL - NURSE PRACTITIONER'S OFFICE D104 WND**  
1 1/2" = 1'-0"



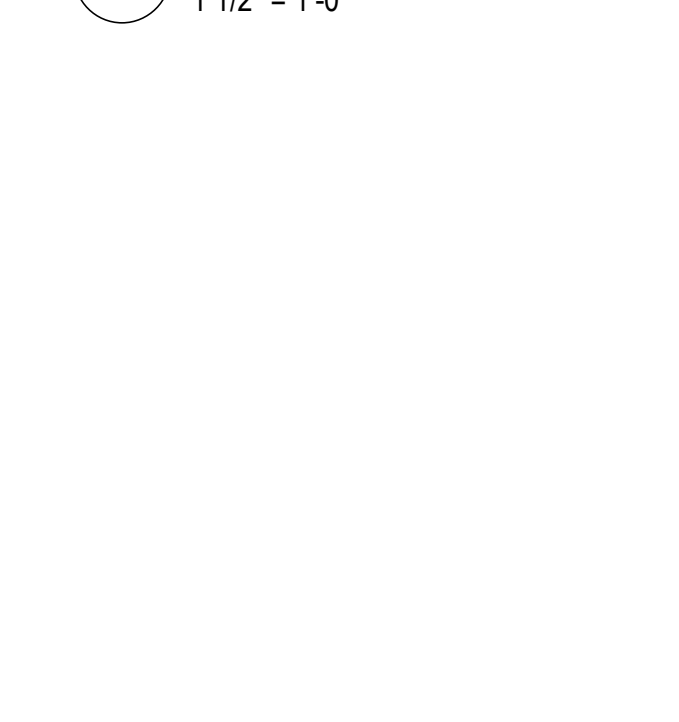
**E4 DETAIL SECTION - WAUSAU WND**  
1 1/2" = 1'-0"



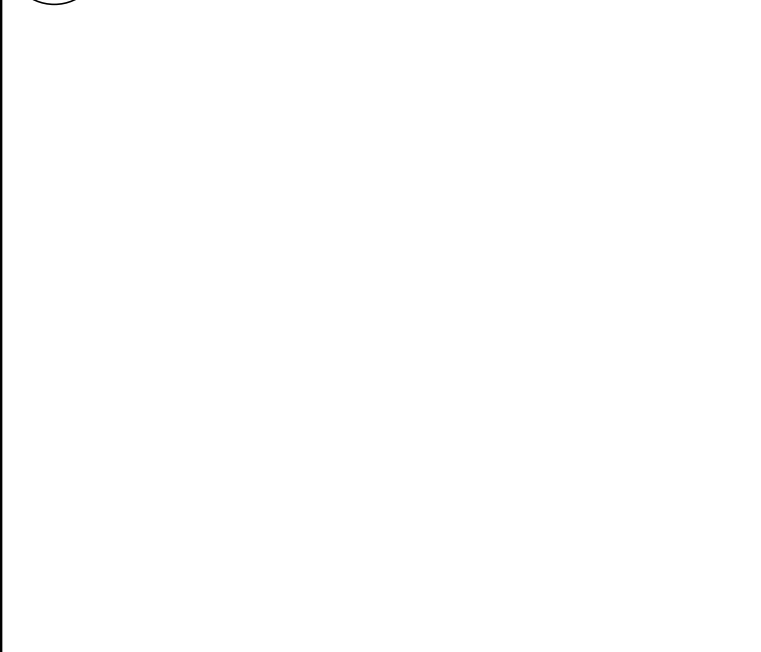
**E5 PLAN DETAIL - CLOSED OBSERVATION WINDOW**  
1 1/2" = 1'-0"



**E6 PLAN DETAIL - DAY ROOM WINDOW**  
1 1/2" = 1'-0"



**B8 WALL SECTION - PATIENT KITCHENETTE**  
1/4" = 1'-0"



Vertical scale on the left side of the drawing, showing increments of 1/8", 1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1 1/8", 1 1/4", 1 3/8", 1 1/2", 1 5/8", 1 3/4", 1 7/8", 2", 2 1/8", 2 1/4", 2 3/8", 2 1/2", 2 5/8", 2 3/4", 2 7/8", 3", 3 1/8", 3 1/4", 3 3/8", 3 1/2", 3 5/8", 3 3/4", 3 7/8", 4", 4 1/8", 4 1/4", 4 3/8", 4 1/2", 4 5/8", 4 3/4", 4 7/8", 5", 5 1/8", 5 1/4", 5 3/8", 5 1/2", 5 5/8", 5 3/4", 5 7/8", 6", 6 1/8", 6 1/4", 6 3/8", 6 1/2", 6 5/8", 6 3/4", 6 7/8", 7", 7 1/8", 7 1/4", 7 3/8", 7 1/2", 7 5/8", 7 3/4", 7 7/8", 8", 8 1/8", 8 1/4", 8 3/8", 8 1/2", 8 5/8", 8 3/4", 8 7/8", 9", 9 1/8", 9 1/4", 9 3/8", 9 1/2", 9 5/8", 9 3/4", 9 7/8", 10".

Vertical scale on the right side of the drawing, showing increments of 1/8", 1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1 1/8", 1 1/4", 1 3/8", 1 1/2", 1 5/8", 1 3/4", 1 7/8", 2", 2 1/8", 2 1/4", 2 3/8", 2 1/2", 2 5/8", 2 3/4", 2 7/8", 3", 3 1/8", 3 1/4", 3 3/8", 3 1/2", 3 5/8", 3 3/4", 3 7/8", 4", 4 1/8", 4 1/4", 4 3/8", 4 1/2", 4 5/8", 4 3/4", 4 7/8", 5", 5 1/8", 5 1/4", 5 3/8", 5 1/2", 5 5/8", 5 3/4", 5 7/8", 6", 6 1/8", 6 1/4", 6 3/8", 6 1/2", 6 5/8", 6 3/4", 6 7/8", 7", 7 1/8", 7 1/4", 7 3/8", 7 1/2", 7 5/8", 7 3/4", 7 7/8", 8", 8 1/8", 8 1/4", 8 3/8", 8 1/2", 8 5/8", 8 3/4", 8 7/8", 9", 9 1/8", 9 1/4", 9 3/8", 9 1/2", 9 5/8", 9 3/4", 9 7/8", 10".

Revision#	Description	Date:

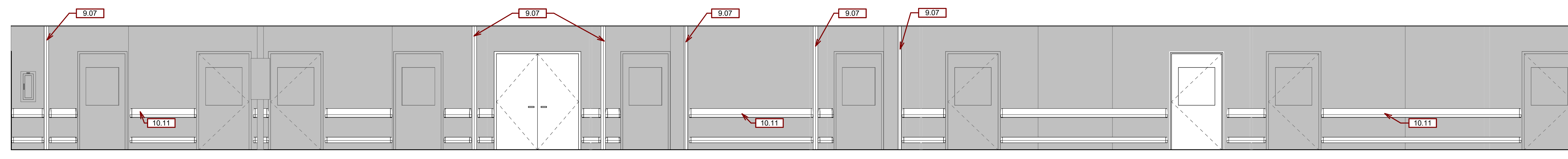
<b>CONSULTANTS</b> MECHANICAL / ELECTRICAL / PLUMBING: <b>WPE</b> West Plains Engineering, Inc. 1750 Rand Road Rapid City, South Dakota 57702 Phone: 605-340-7465		STRUCTURAL: Albertson Engineering, Inc. 2022 W. Main St., 8C Rapid City, South Dakota 57702 Phone: 605-343-8609		<b>ARCHITECT OF RECORD</b> A/E: Stone Group Architects 600 E 7th Street Sioux Falls, SD 57103 605-271-1144		<b>STAMP</b> Office of Construction and Facilities Management U.S. Department of Veterans Affairs		Drawing Title <b>WALL SECTIONS &amp; DETAILS</b> Approved:		Phase <b>CONSTRUCTION DOCUMENTS</b> FULLY SPRINKLERED		Project Title VA FM UPGRADE MENTAL HEALTH LOCK WARD Location FORT MEADE, SOUTH DAKOTA Issue Date 08/29/22		Project Number VA #568-20-102 SGA #211937 Building Number 148 Drawing Number AE-302	
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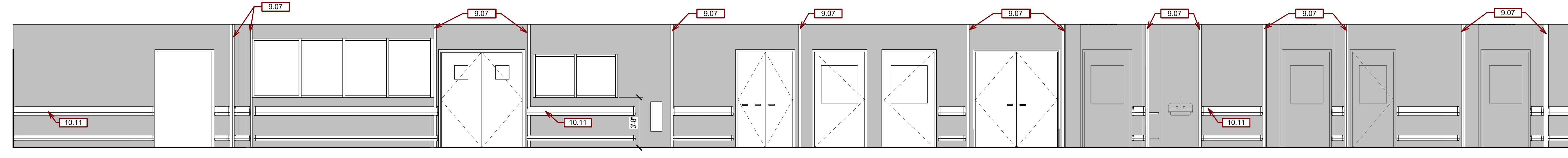
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- C. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. DO NOT SCALE THE DRAWINGS.
- D. CONTRACTOR & SUBCONTRACTORS TO VERIFY ALL EXISTING CONDITIONS AT THE PROJECT SITE. ALL MATERIALS & EQUIPMENT SHALL BE INSTALLED PER MANUFACTURERS INSTRUCTIONS. DETAILS SHOWN ARE TYPICAL UNLESS OTHERWISE NOTED. SIMILAR DETAILS APPLY IN SIMILAR CONDITIONS.
- E. PROVIDE WOOD BACKING FOR ALL BATH ACCESSORIES, HANDRAILS, OR OTHER ITEMS ATTACHED TO BUILDING WALLS.
- F. GYPSUM USED IN RESTROOMS SHALL BE WATER RESISTANT GYPSUM BOARD. USE DURAROCK @ ALL PORCELAIN & CERAMIC TILE LOCATIONS.
- G. PROVIDE ADA COMPLIANT SIGNAGE FOR ALL REQUIRED AREAS, ROOMS, & ACCESSIBLE PATHS. HEIGHT OF OPERATIONAL OR DISPENSING PORTION OF ACCESSORIES & FIXTURES NOT TO EXCEED 48" A.F.F.

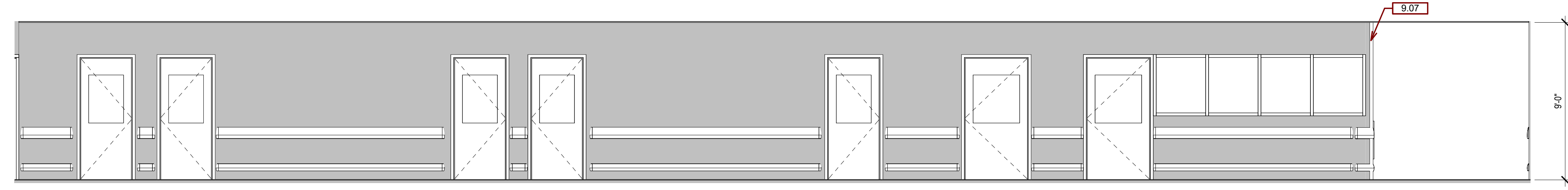
SGA KEYNOTES	
Key Value	Keynote Text
9.07	CORNER GUARD
10.11	NEW ANTI-LIGATURE HANDBAR AND CRASH RAIL THROUGHOUT CORRIDOR.
10.13	PRIVACY CURTAIN REPLACE IN ROOM
22.02A	SINGLE BASIN SINK



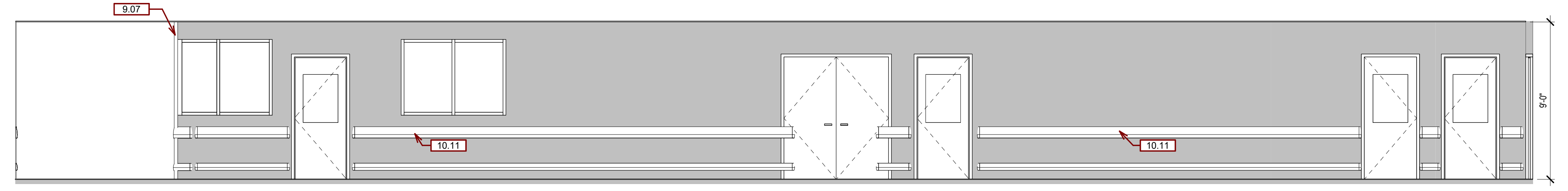
**ELEVATION - NORTH CORRIDOR NORTH SIDE**  
1/4" = 1'-0"



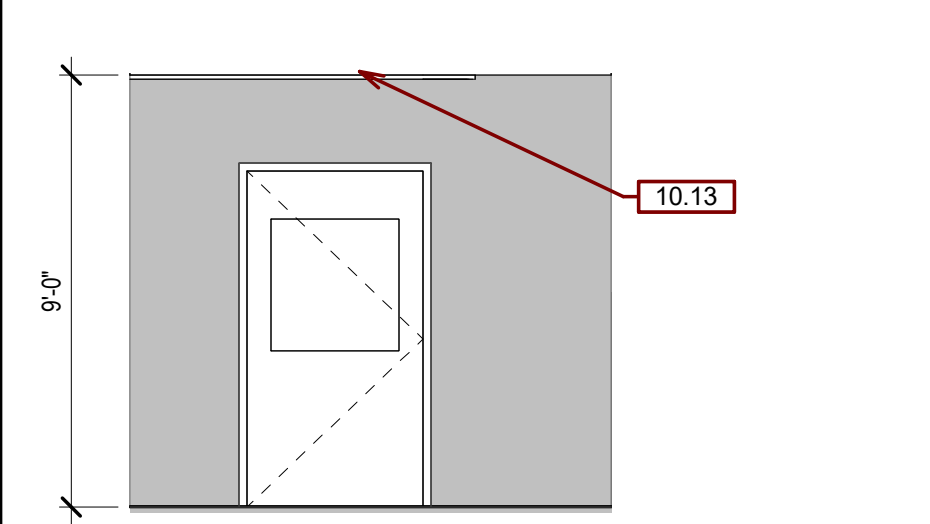
**ELEVATION - NORTH CORRIDOR SOUTH SIDE**  
1/4" = 1'-0"



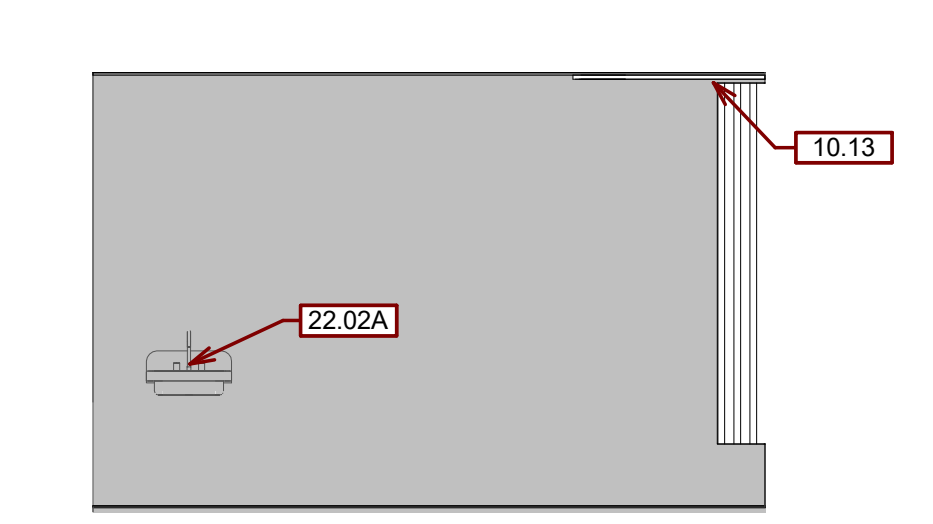
**ELEVATION - MIDDLE CORRIDOR LEFT SIDE**  
1/4" = 1'-0"



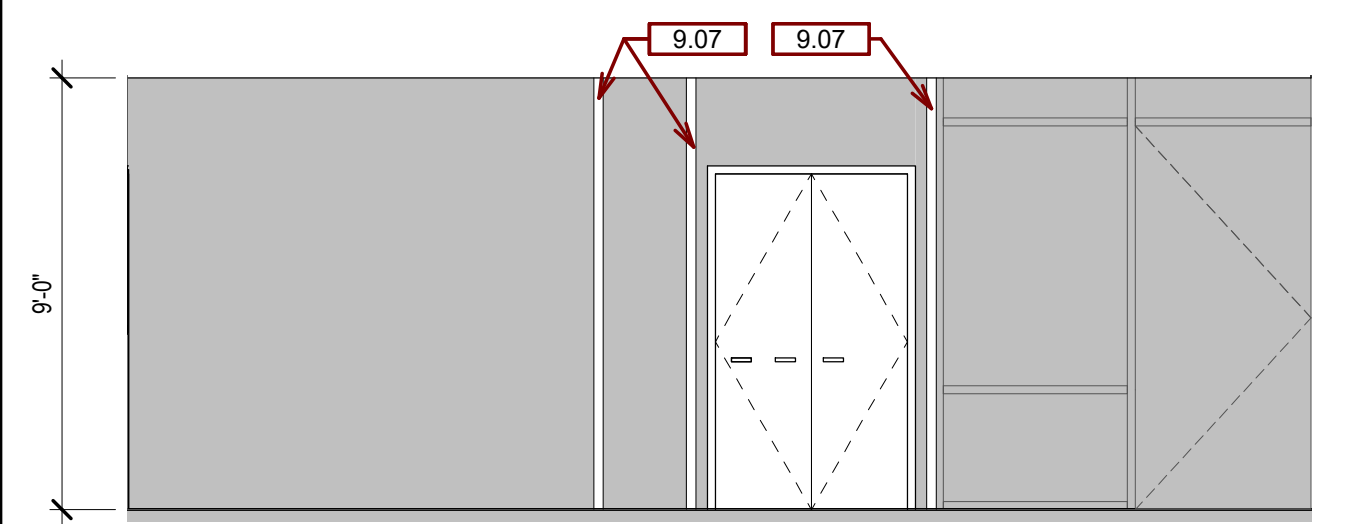
**ELEVATION - MIDDLE CORRIDOR RIGHT SIDE**  
1/4" = 1'-0"



**ELEVATION - EXAM ROOM DOOR AND PRIVACY CURTAIN**  
1/4" = 1'-0"



**ELEVATION - EXAM ROOM SINK AND PRIVACY CURTAIN**  
1/4" = 1'-0"



**ELEVATION - DAY ROOM MEDIA CLOSET AND EXIT**  
1/4" = 1'-0"

8/30/2022 7:38:14 AM  
 C:\SGA Revit Local211837\VA FM Upgrade MH Ward\_inseak\UPWAVE.rvt  
 one eighth inch = one foot  
 one quarter inch = one foot  
 one half inch = one foot  
 one inch = one foot  
 one and one half inches = one foot  
 two inches = one foot  
 three inches = one foot  
 four inches = one foot  
 five inches = one foot  
 six inches = one foot  
 seven inches = one foot  
 eight inches = one foot  
 nine inches = one foot  
 ten inches = one foot  
 eleven inches = one foot  
 twelve inches = one foot  
 thirteen inches = one foot  
 fourteen inches = one foot  
 fifteen inches = one foot  
 sixteen inches = one foot  
 one eighth inch = one foot  
 one quarter inch = one foot  
 one half inch = one foot  
 one inch = one foot  
 one and one half inches = one foot  
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 five inches = one foot  
 six inches = one foot  
 seven inches = one foot  
 eight inches = one foot  
 nine inches = one foot  
 ten inches = one foot  
 eleven inches = one foot  
 twelve inches = one foot  
 thirteen inches = one foot  
 fourteen inches = one foot  
 fifteen inches = one foot  
 sixteen inches = one foot

Revision#	Description	Date:

**CONSULTANTS**

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**ARCHITECT OF RECORD**

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 600 E 7th Street  
 Sioux Falls, SD 57103  
 605-271-1144

STAMP

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title  
**INTERIOR ELEVATIONS**

Phase  
**CONSTRUCTION DOCUMENTS**

Project Title  
**VA FM UPGRADE MENTAL HEALTH LOCK WARD**

Location  
**FORT MEADE, SOUTH DAKOTA**

Issue Date  
**08/29/22**

Checked  
**JHK**

Drawn  
**RMV/DAN**

Project Number  
**VA #568-20-102 SGA #211937**

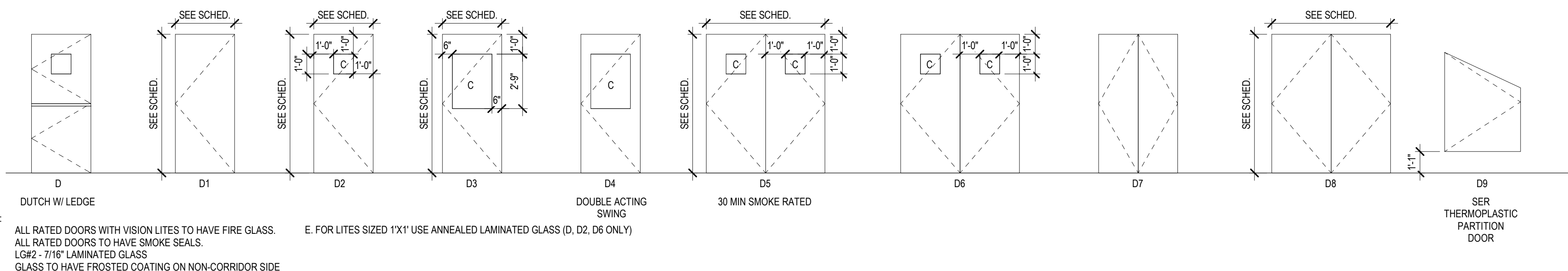
Building Number  
**148**

Drawing Number  
**AE-450**

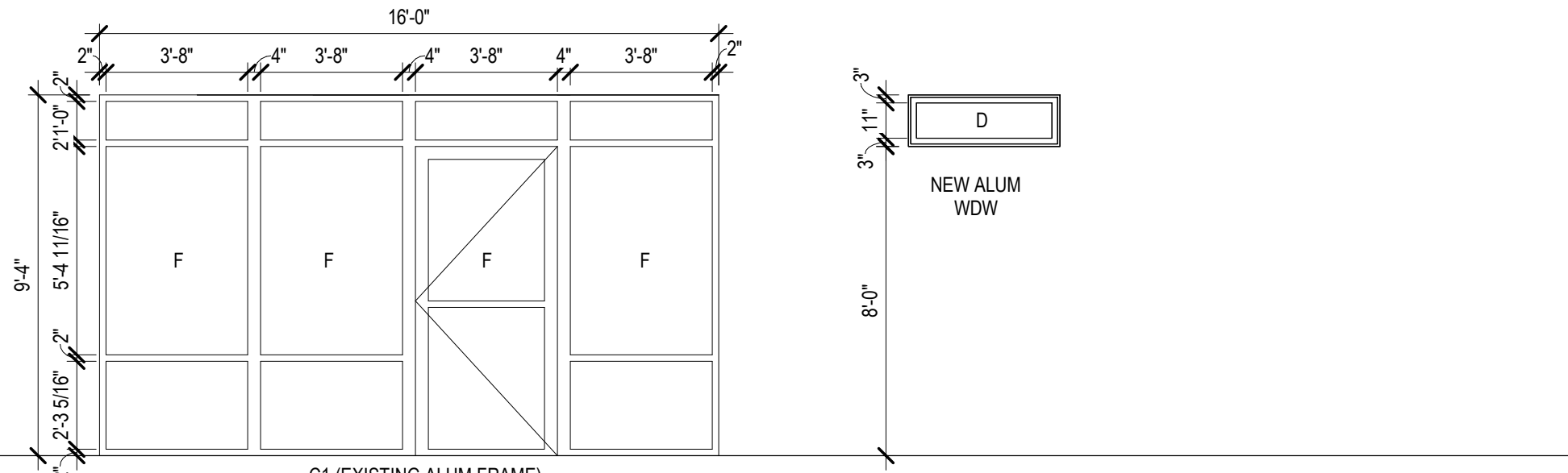
**FULLY SPRINKLERED**

DOOR SCHEDULE										
DOOR #	WIDTH	HEIGHT	TYPE	MATERIAL	FRAME	DEPTH	RATING	HOW	R	REMARKS
D01	2'-6"	6'-0"	D1	HM	HM	6 1/8"	-	E1		
D02	2'-6"	6'-0"	D1	HM	HM	6 1/8"	-	E1		
D03	2'-6"	6'-0"	D1	HM	HM	6 1/8"	-	E1		
D04	2'-6"	6'-0"	D1	HM	HM	6 1/8"	-	E1		
CC155A	5'-0"	7'-0"	D2	HM	HM	4 7/8"	-	MH3		
CC155A	6'-0"	7'-0"	D5	HM	HM	4 7/8"	-	MH4		USE 5/16" FIRE GLASS.
CC155B	6'-0"	7'-0"	D6	HM	HM	4 7/8"	-	MH4		
CC155C	6'-0"	7'-0"	D6	HM	HM	4 7/8"	-	MH4		
D100	3'-0"	7'-0"	D2	WD	HM	4 7/8"	-	S3		REPLACE DOOR PANEL AND GLAZING. RETAIN FRAME. REUSE EXISTING HARDWARE
D101	3'-0"	7'-0"	D2	WD	HM	4 7/8"	-	S3		REPLACE DOOR PANEL AND GLAZING. RETAIN FRAME. REUSE EXISTING HARDWARE
D102	3'-0"	7'-0"	D2	WD	HM	4 7/8"	-	S3		REPLACE DOOR PANEL AND GLAZING. RETAIN FRAME. REUSE EXISTING HARDWARE
D103A	3'-0"	7'-0"	D2	WD	HM	4 7/8"	-	S3		REPLACE DOOR PANEL AND GLAZING. RETAIN FRAME. REUSE EXISTING HARDWARE
D104	3'-0"	7'-0"	D2	WD	HM	4 7/8"	-	S3		REPLACE DOOR PANEL AND GLAZING. RETAIN FRAME. REUSE EXISTING HARDWARE
D105	3'-0"	7'-0"	D4	WD	HM	4 7/8"	-	MH5		SPECIAL FRAME, BEHAVIORAL HEALTH DOUBLE ACTING HINGE NEW LIGATURE ALARM
D106	3'-0"	7'-0"	D1	WD	HM	4 7/8"	-	S3		REPLACE DOOR PANEL AND GLAZING. RETAIN FRAME. REUSE EXISTING HARDWARE
D107	3'-0"	7'-0"	D3	WD	HM	4 7/8"	-	S3		REPLACE DOOR PANEL, RETAIN FRAME. REUSE EXISTING HARDWARE
D108	3'-0"	7'-0"	D2	WD	HM	4 7/8"	-	S3		REPLACE DOOR PANEL AND FRAME. REUSE EXISTING HARDWARE
D109	3'-0"	7'-0"	D	WD	HM	4 7/8"	-	MH6		DUTCH DOOR, PEEP HOLE SIGHT, ELEC LATCH TO EXISTING REMOTE RELEASE BUTTON, NO LIGATURE ALARM
D110A	3'-0"	7'-0"	D2	WD	HM	4 7/8"	-	MH1		REPLACE DOOR PANEL, RETAIN FRAME. REUSE EXISTING HARDWARE. REUSE LIGATURE ALARM
D110B	3'-0"	7'-0"	D2	WD	HM	4 7/8"	-	MH1		REPLACE DOOR PANEL AND FRAME. REUSE EXISTING HARDWARE. REUSE LIGATURE ALARM
D110C	3'-0"	7'-0"	D1	WD	HM	4 7/8"	-	S3		REPLACE DOOR PANEL, RETAIN FRAME. REUSE EXISTING HARDWARE
D110D	4'-0"	7'-0"	D7	WD	HM	4 7/8"	-	MH6A		REPLACE DOOR PANEL, RETAIN FRAME. REUSE EXISTING HARDWARE
D111	4'-0"	7'-0"	D7	WD	HM	4 7/8"	-	MH6A		REPLACE DOOR PANEL, RETAIN FRAME. REUSE EXISTING HARDWARE
D112	3'-0"	7'-0"	D1	WD	HM	4 7/8"	-	MH1		REPLACE DOOR PANEL AND FRAME. REUSE EXISTING HARDWARE. REUSE LIGATURE ALARM
D113	6'-0"	7'-0"	D8	HM	HM	4 7/8"	-	MH6A		REPLACE DOOR PANEL, RETAIN FRAME. REUSE EXISTING HARDWARE
D123	6'-0"	7'-0"	D8	HM	HM	4 7/8"	-	MH6A		REPLACE DOOR PANEL, RETAIN FRAME. REUSE EXISTING HARDWARE
D125A	3'-0"	5'-0"	D9	WD	-	4 7/8"	-	-		SENTINEL EVENT REDUCTION PARTITION DOORS
D125B	3'-0"	5'-0"	D9	WD	-	4 7/8"	-	-		SENTINEL EVENT REDUCTION PARTITION DOORS
D125C	3'-0"	5'-0"	D9	WD	-	4 7/8"	-	-		SENTINEL EVENT REDUCTION PARTITION DOORS
D125D	3'-0"	5'-0"	D9	WD	-	4 7/8"	-	-		SENTINEL EVENT REDUCTION PARTITION DOORS
D126	3'-0"	7'-0"	D2	WD	HM	4 7/8"	-	-		REPLACE GLAZING ONLY
D126A	3'-0"	7'-0"	D2	WD	HM	4 7/8"	-	-		REPLACE GLAZING ONLY
D127	3'-0"	7'-0"	D2	WD	HM	4 7/8"	-	MH1B		REPLACE DOOR PANEL AND FRAME. REUSE EXISTING HARDWARE. REUSE LIGATURE ALARM
D127A	3'-0"	7'-0"	D2	WD	HM	4 7/8"	-	MH1C		REPLACE DOOR PANEL AND FRAME. REUSE EXISTING HARDWARE. REUSE LIGATURE ALARM
D128	3'-0"	7'-0"	D2	WD	HM	4 7/8"	-	-		REPLACE GLAZING ONLY
D128A	3'-0"	7'-0"	D2	WD	HM	4 7/8"	-	-		REPLACE GLAZING ONLY
D129	3'-0"	7'-0"	D2	WD	HM	4 7/8"	-	-		REPLACE GLAZING ONLY
D129A	3'-0"	7'-0"	D2	WD	HM	4 7/8"	-	-		REPLACE GLAZING ONLY
D130	3'-0"	7'-0"	D1	WD	HM	4 7/8"	-	H1		REPLACE DOOR PANEL, RETAIN FRAME. REUSE EXISTING HARDWARE
D131	4'-0"	7'-0"	D2	WD	HM	4 7/8"	-	MH4		REPLACE DOOR PANEL, RETAIN FRAME. REUSE EXISTING HARDWARE. ADD CARD READER
D151	3'-0"	7'-0"	D1	WD	HM	4 7/8"	-	MH4		REPLACE DOOR PANEL, RETAIN FRAME. REUSE EXISTING HARDWARE
DECT	6'-0"	7'-0"	D7	HM	HM	4 7/8"	-	MH6A		REPLACE DOOR PANEL, RETAIN FRAME. REUSE EXISTING HARDWARE
TEMP 2	6'-0"	7'-0"	D1	HM	HM	5 3/4"	-	S		TEMPORARY CONSTRUCTION BARRIER DOOR

DOOR TYPES

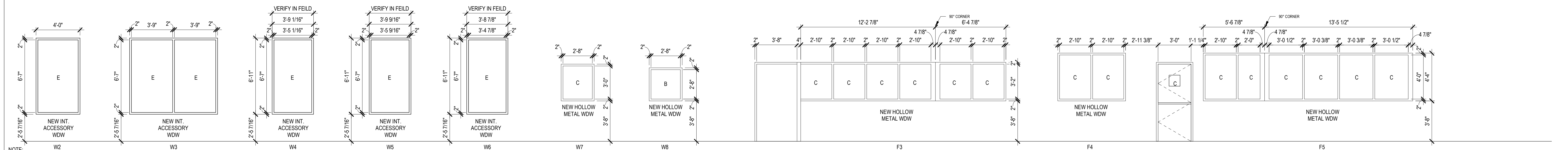


EXTERIOR ALUMINUM WINDOW AND GLAZING TYPES



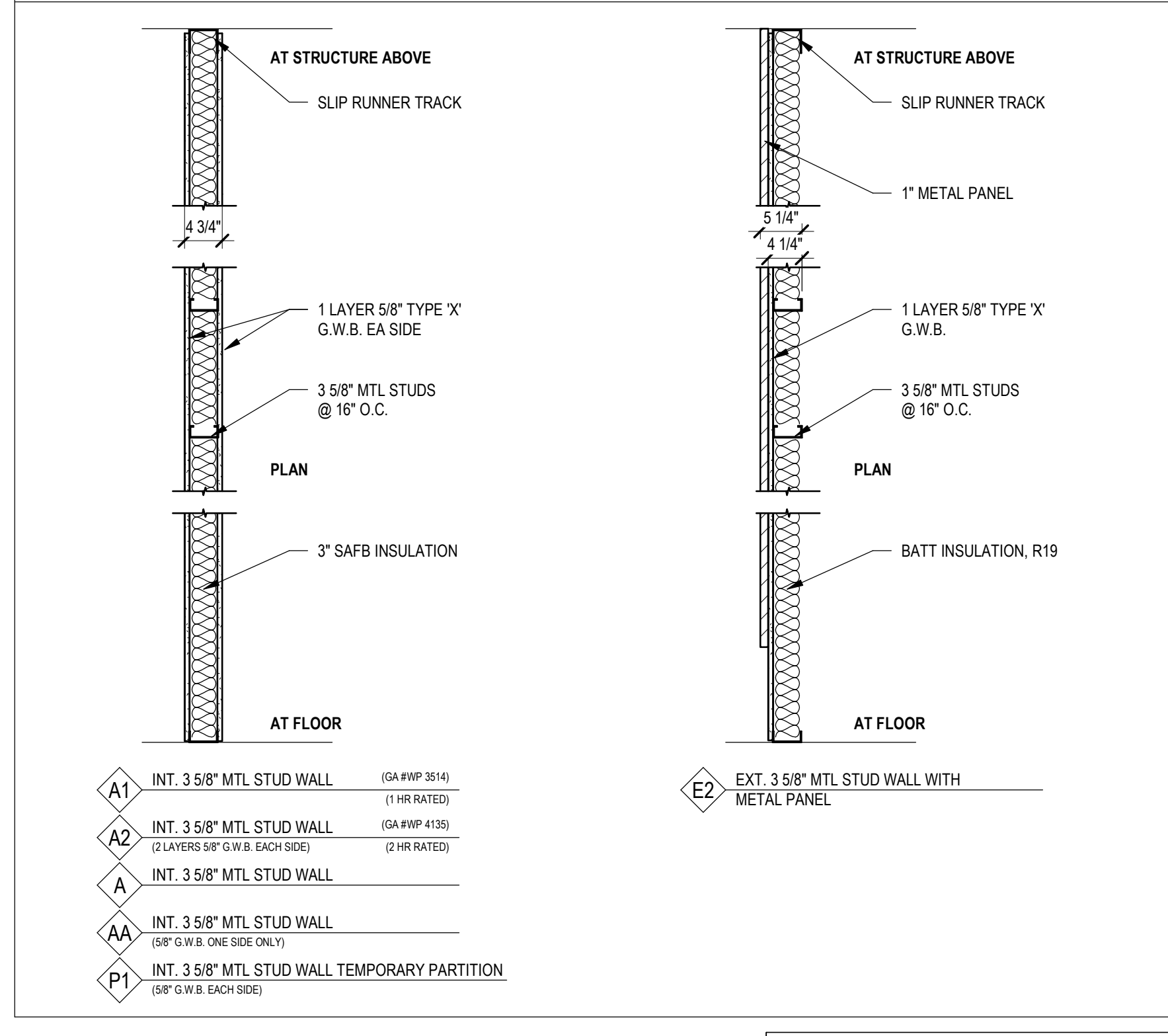
NOTE: ALL GLASS TO BE LAMINATED SAFETY GLASS.  
 A LG#1 - 3/16" LAMINATED GLASS  
 B LG#2 - 7/16" LAMINATED GLASS  
 C LG#1 - 7/16" INSULATING LAMINATED GLAZED ALUMINUM EXTERIOR WINDOW UNIT W/ INTEGRAL BLIND  
 D LG#2 - 7/16" INSULATING LAMINATED GLAZING INTERIOR ACCESSORY WINDOW UNIT W/ INTEGRAL BLIND  
 E LG#3 - 7/16" INSULATING LAMINATED CURTAIN WALL GLAZING UNIT, PROVIDE NEW WINDOW STOPS FOR EXISTING FRAME

INTERIOR WINDOWS AND GLAZING TYPES



NOTE: ALL GLASS TO BE LAMINATED SAFETY GLASS.  
 A LG#1 - 3/16" LAMINATED GLASS  
 B LG#2 - 7/16" LAMINATED GLASS  
 C LG#1 - 7/16" INSULATING LAMINATED GLAZED ALUMINUM EXTERIOR WINDOW UNIT W/ INTEGRAL BLIND  
 D LG#2 - 7/16" INSULATING LAMINATED GLAZING INTERIOR ACCESSORY WINDOW UNIT W/ INTEGRAL BLIND  
 E LG#3 - 7/16" INSULATING LAMINATED CURTAIN WALL GLAZING UNIT, PROVIDE NEW WINDOW STOPS FOR EXISTING FRAME

WALL TYPES



Revision#	Description	Date:

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

Drawing Title  
**SCHEDULES**  
 Approved:

Phase  
**CONSTRUCTION DOCUMENTS**  
**FULLY SPRINKLERED**

Project Title  
**VA FM UPGRADE MENTAL HEALTH LOCK WARD**  
 Location  
**FORT MEADE, SOUTH DAKOTA**  
 Issue Date  
**08/29/22**  
 Checked  
**JHK**  
 Drawn  
**RMV/DAN**

Project Number  
**VA #568-20-102 SGA #211937**  
 Building Number  
**148**  
 Drawing Number  
**AE-601**



**GENERAL FLOOR FINISH NOTES:**

- A. FINISH SCHEDULES DENOTE FINISHES THROUGHOUT THE PROJECT. FOR LOCATIONS REFER TO THE FINISH FLOOR PLAN, ROOM FINISH SCHEDULES, REFLECTED CEILING PLANS, AND INTERIOR ELEVATIONS.
- B. SOME SPECIFIED PRODUCTS AND FINISHES MAY HAVE SUBSTANTIAL LEAD TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING ORDERS IN A MANNER TO ENSURE THEIR TIMELY ARRIVAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXPENSES, INCLUDING DESIGN FEES RELATED TO ANY RESELECTIONS REQUIRED DUE TO FAILURE TO ORDER PRODUCTS IN A TIMELY MANNER.
- C. ALL FINISH WORK SHALL BE PERFORMED IN COMPLIANCE WITH DRAWINGS AND SPECIFICATIONS. SHOP DRAWINGS, SAMPLES AND PRODUCT DATA SHALL BE SUBMITTED TO THE ARCHITECT FOR THEIR REVIEW PRIOR TO BEGINNING WORK.
- D. WOOD DOORS, FRAME BASE MOLDINGS TO BE FILLED, STAINED, SEALED AND SHOP FINISHED TO MATCH ARCHITECT'S SAMPLE. WORK SHOULD BE PERFORMED IN A DUST FREE ENVIRONMENT.
- E. ALL HOLLOW METAL DOOR FRAMES TO BE PAINTED PT.3 (JON)
- F. EXTEND ALL FLOORING UNDER FURNITURE, DESKS, COUNTERTOPS, ETC.
- G. PROVIDE TRANSITION STRIPS AT ALL LOCATIONS THAT HAVE A CHANGE IN FLOORING MATERIALS. REFER TO TYPICAL TRANSITION STRIP DETAILS FOR APPROVED TRANSITION STRIPS. ALL TRANSITIONS TO BE CENTERED UNDER DOORS IN A CLOSED POSITION. (JON). CONTRACTOR IS RESPONSIBLE FOR VERIFYING APPROPRIATE SIZES OF TRANSITION STRIPS BASED ON MATERIAL TYPES.
- H. ALL SCHLUTER TRANSITION STRIPS TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
- I. ALL VINYL TRANSITION STRIP COLORS TO MATCH ADJACENT FLOORING. SUBMIT SAMPLE FOR APPROVAL.
- J. VERIFY GROUT AND MORTAR THICKNESS PER MANUFACTURER'S RECOMMENDATIONS.
- K. FLOOR FINISH LEGEND HATCHES INDICATE FLOORING TYPES, NOT ACTUAL FLOORING PATTERN AND LAYOUT. (JON)
- L. FOR FLOOR PATTERN INSTALL DIRECTION REFER TO THE INSTALLATION SYMBOL.
- M. PROVIDE UNDER COUNTER HORIZONTAL METAL SUPPORTS FOR TROUGH LAVATORIES, CORNER GUARDS TO BE SUPPLIED AND INSTALLED BY CONTRACTOR.
- N. IF EXISTING CORNER GUARDS ARE DAMAGED DURING CONSTRUCTION, REPLACE WITH NEW CORNER GUARDS.
- O. VERIFY ALL CORNER GUARD HEIGHTS. INSTALL CORNER GUARDS AT ALL EXPOSED OUTSIDE CORNERS OF GYPSUM BOARD WALLS. (JON)
- P. METAL L-BRACKETS TO BE PAINTED TO MATCH WALL COLOR.

**NOTES**

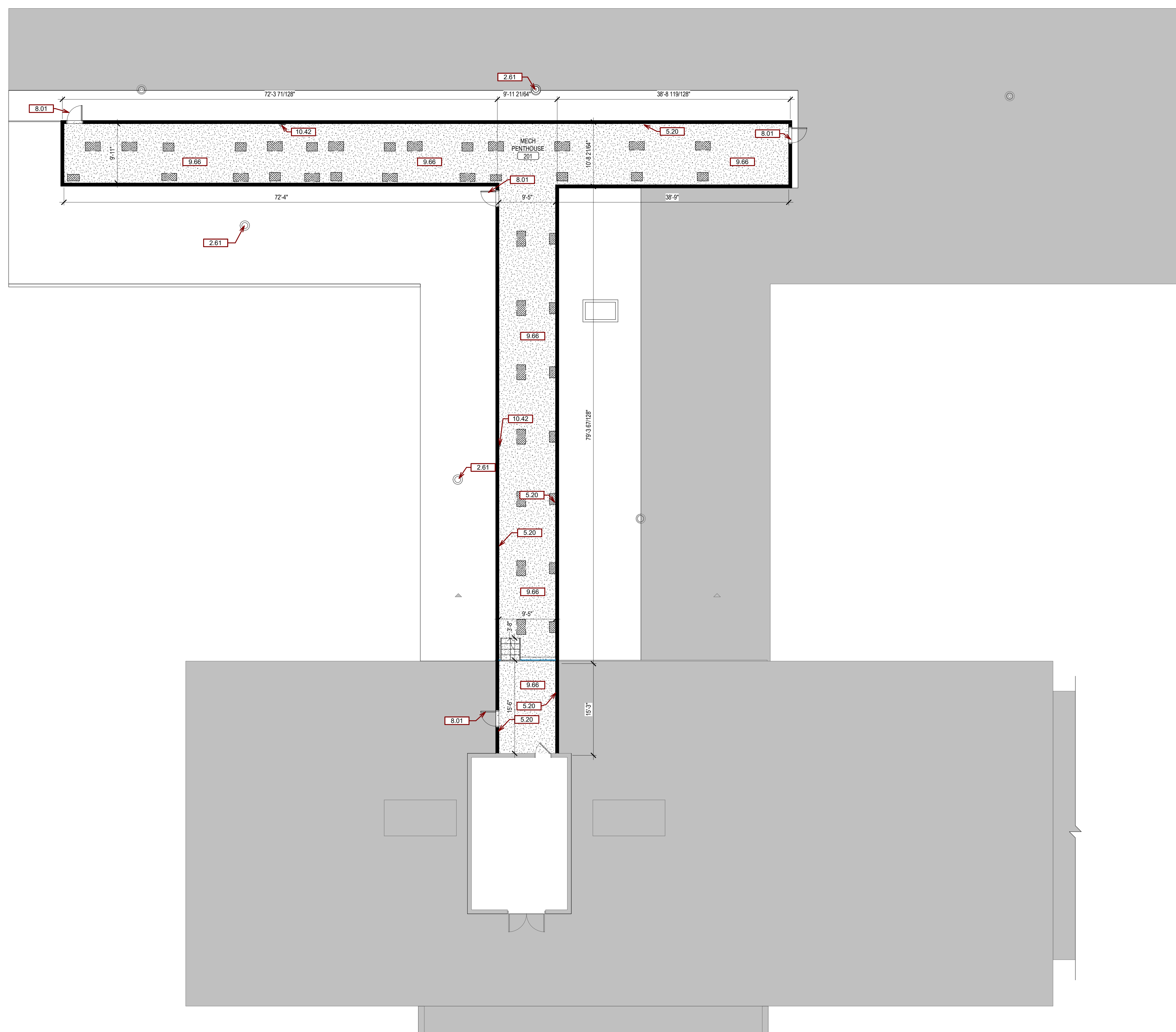
1. JOINTS IN FLOORING TILE SHOULD MATCH UP WITH JOINTS IN CONC. SLABS AND ADDITIONAL JOINTS TO BE CUT IF NECESSARY. VERIFY WITH ARCHITECT.
2. CORNER GUARDS AT ALL OUTSIDE CORNERS IN PUBLIC SPACES. (TYP. SEE COLORS & MATERIAL SCHEDULE)
3. SEE FLOOR COVERING PLANS FOR FLOOR PATTERNS.
4. ALL INTERIOR G.W.B. WALLS AND CEILINGS SHALL RECEIVE LEVEL 3 FINISH WITH LIGHT ORANGE PEEL TEXTURE U.N.O.
5. FLOOR MATERIAL TRANSITIONS SHALL OCCUR @ CENTER OF DOOR, TYP.
6. SEE INTERIOR SIGNAGE DETAIL FOR SIGNAGE LOCATION.

**SGA KEYNOTES**

Key Value	Keynote Text
2.61	REMOVE EXISTING ROOF DRAIN AND REPLACE WITH NEW DRAIN IN SAME LOCATION.
5.20	METAL PANEL MATCH EXISTING BUILDING COLOR
8.01	DOOR - SEE SCHED.
9.66	1/8" EPOXY FLOORING WITH 1" COVERED BASE
10.42	WALL MOUNTED FIRE EXTINGUISHER

**FINISH PLAN LEGEND**

	WSP		EPX		RUB		PT		LVT
--	-----	--	-----	--	-----	--	----	--	-----



**G2 2ND LEVEL FINISH PLAN**  
1/8" = 1'-0"

Revision#	Description	Date:

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Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title  
**2ND LEVEL FINSH PLAN**

Approved:

Phase  
**CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**VA FM UPGRADE MENTAL HEALTH LOCK WARD**

Location  
**FORT MEADE, SOUTH DAKOTA**

Issue Date  
 08/29/22

Checked  
 JHK

Drawn  
 RMV/DAN

Project Number  
 VA #568-20-102  
 SGA #211937

Building Number  
 148

Drawing Number  
**AE-802**

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

MECHANICAL SYMBOLS

Table of mechanical symbols including abbreviations for pipes (CW, HW, RHW, etc.), valves (check, control, etc.), and other components (tees, elbows, etc.).

VENTILATION SYMBOLS

Table of ventilation symbols including supply and return ducts, dampers (manual, volume), grilles, and diffusers.

Large table of mechanical abbreviations and their full names, organized in three columns (A, B, C).

Revision table with columns for Revision#, Description, and Date.

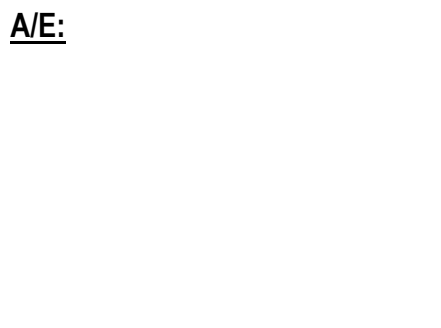
CONSULTANTS

MECHANICAL / ELECTRICAL / PLUMBING: WPE...  
STRUCTURAL: Albertson Engineering, Inc.

ARCHITECT OF RECORD

STONE GROUP ARCHITECTS  
8462 MICHAEL SEAN HEWSON

STAMP



Office of Construction and Facilities Management



Drawing Title

MECHANICAL ABBREVIATIONS & SYMBOLS  
Approved:

Phase

CONSTRUCTION DOCUMENTS  
FULLY SPRINKLERED

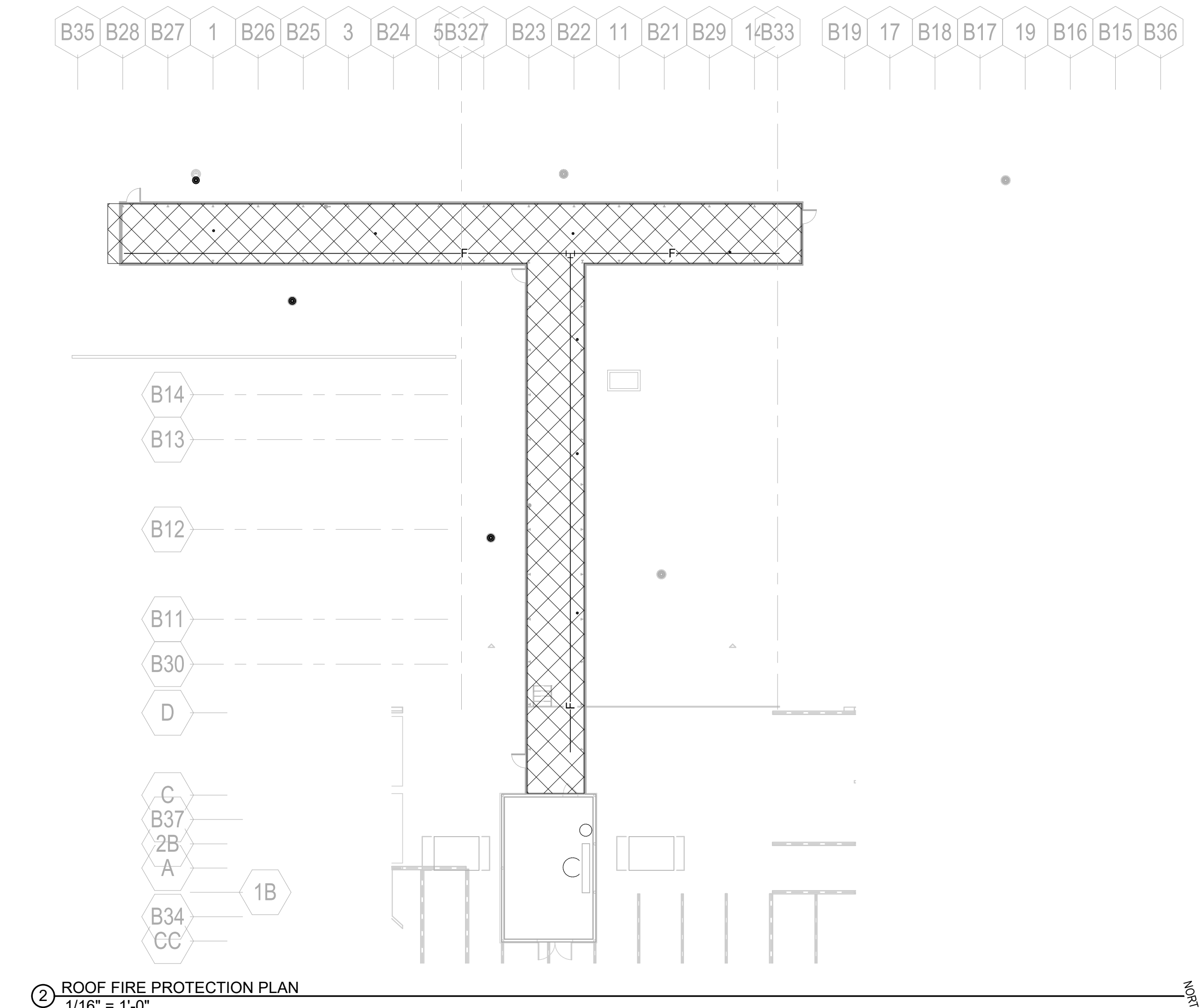
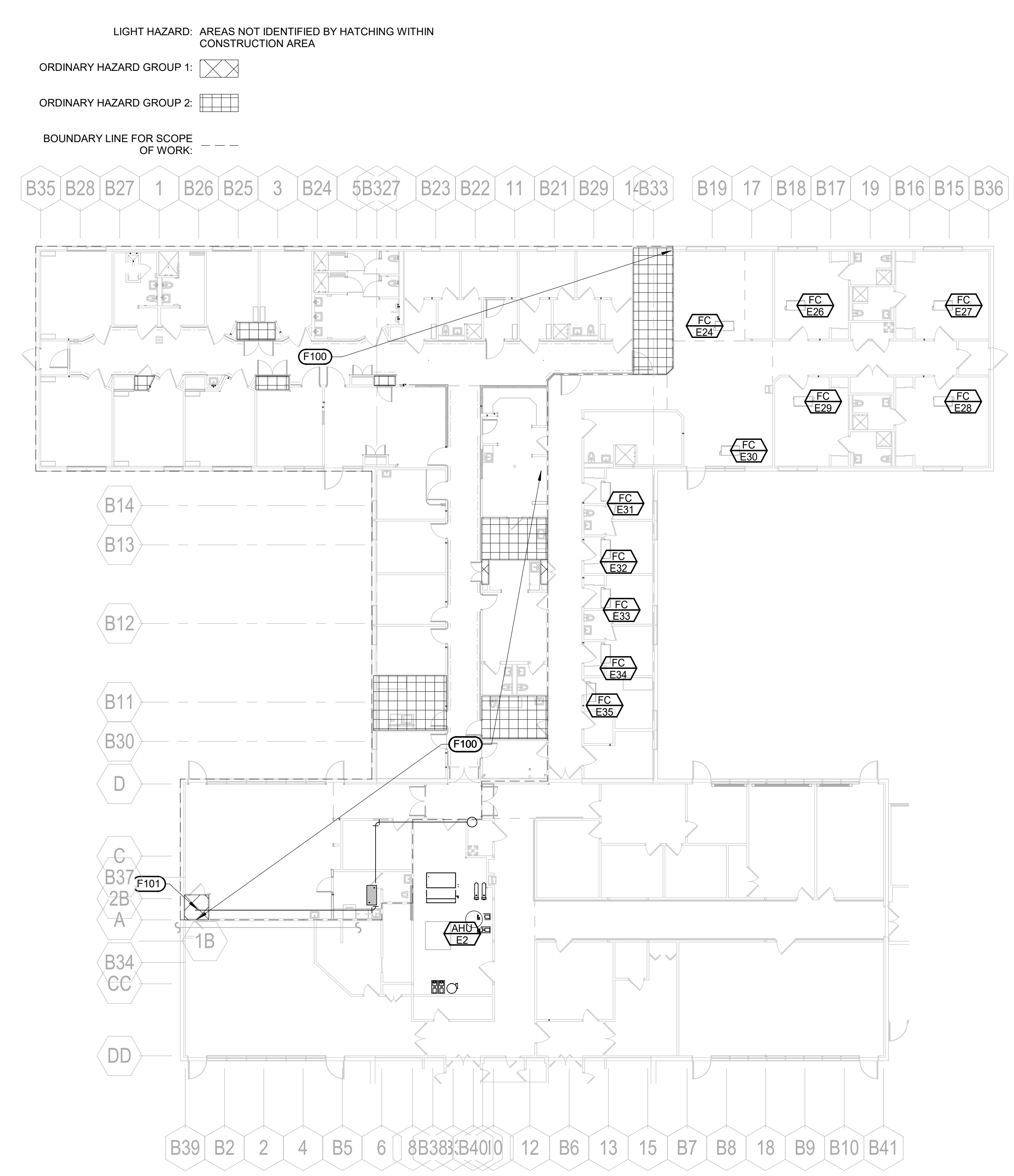
Project Title

VA FM UPGRADE MENTAL HEALTH LOCK WARD  
Location: FORT MEADE, SOUTH DAKOTA

Project Number

VA #66-20-102  
SGA #211937  
Building Number #148  
Drawing Number MA-101

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



- FIRE PROTECTION HAZARD CLASSIFICATION**
- A LIGHT HAZARD OCCUPANCIES: PATIENT CARE, TREATMENT, AND CUSTOMARY ACCESS AREAS.
  - B ORDINARY HAZARD GROUP 1 OCCUPANCIES: MECHANICAL, EQUIPMENT ROOMS, TRANSFORMER ROOMS, ELECTRICAL SWITCHGEAR ROOMS, AND ELECTRIC CLOSETS.
  - C ORDINARY HAZARD GROUP 2 OCCUPANCIES: STORAGE ROOMS, TRASH ROOMS, CLEAN AND SOILED LINEN ROOMS, PHARMACY AND ASSOCIATED STORAGE, LAUNDRY, STORAGE, STORAGE AREAS FOR THE ENTIRE AREA OF THE SPACE UP TO 140 SQUARE METERS (1500 SQUARE FEET).
- GENERAL FIRE PROTECTION NOTES**
- FA COORDINATE LOCATION OF PIPING, PIPING ACCESSORIES, ETC., WITH ARCHITECTURAL CEILING GRID. REFER TO REFLECTED CEILING PLAN FOR CEILING LOCATIONS.
  - FB ENTIRE BUILDING SHALL BE PROTECTED BY A WET FIRE SPRINKLER SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 13 AND THE AUTHORITY HAVING JURISDICTION.
  - FC STATIC PRESSURE ON MAIN LEVEL (AT FIRE SPRINKLER CLOSE BY DINING) IS ESTIMATED TO BE 70 PSI WITH A RESIDUAL PRESSURE FLOW ESTIMATED AT 40.7 PSI@12 GPM. SIZE FIRE SPRINKLER PIPING TO PROVIDE A MINIMUM OF 10% FACTOR OF SAFETY FOR SYSTEM PRESSURE. CONTRACTOR TO CONFIRM ACTUAL SYSTEM FLOW PRESSURE PRIOR TO HYDRAULIC CALCULATIONS.
  - FD SPACE ABOVE CEILING IS LIMITED. CONTRACTOR SHALL COORDINATE ALL PIPE ROUTING WITH ALL OTHER TRADES. PROVIDE ALL ADDITIONAL OFFSETS AND TRANSITIONS AS REQUIRED TO COMPLETE INSTALLATION.
  - FE 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.
  - FF FIRE SPRINKLER PIPING MAINS SHOWN FOR INTENDED ROUTING. CONTRACTOR TO FOLLOW FIRE SPRINKLER ROUTING FOR HYDRAULIC CALCULATIONS AND SYSTEM INSTALLATION.
  - FG REFER TO ARCHITECTURAL PLANS FOR DESCRIPTION OF PHASES. SPRINKLER SYSTEMS SERVING OCCUPIED AREAS SHALL REMAIN OPERATIONAL AT ALL TIMES.
  - FH PROVIDE TEMPORARY UPRIGHT SPRINKLERS IN CONSTRUCTION AREAS WHERE CONTRACTOR CHOOSES THE OPTION IDENTIFIED ON SHEET G102. THE TEMPORARY SPRINKLERS SHALL REMAIN OPERATIONAL UNTIL THE NEW SPRINKLERS ARE INSTALLED AND OPERATIONAL.
  - FI ALL SPRINKLERS SHALL BE FM APPROVED QUICK RESPONSE EXCEPT "INSTITUTIONAL" TYPE SPRINKLERS SHALL BE PERMITTED TO BE UL LISTED QUICK RESPONSE. "INSTITUTIONAL" TYPE SPRINKLERS SHALL BE PROVIDED IN MENTAL HEALTH AND BEHAVIOR UNITS AND SHALL BE UL LISTED OR FM APPROVED QUICK RESPONSE TYPE.
- MECHANICAL SPECIFIC NOTES**
- F100 REMOVE AND REPLACE EXISTING FIRE PROTECTION PIPING WITHIN THIS AREA.
  - F101 FIRE SPRINKLER ZONE CONTROL ASSEMBLY WITHIN THIS AREA.

1 1ST LEVEL FIRE PROTECTION PLAN  
1/16" = 1'-0"

2 ROOF FIRE PROTECTION PLAN  
1/16" = 1'-0"

Revision#	Description	Date:

**CONSULTANTS**

**MECHANICAL / ELECTRICAL / PLUMBING:**  
**WPE**  
 West Plains Engineering, Inc.  
 1750 Rural Road  
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 Phone: 605-348-7455

**STRUCTURAL:**  
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 3202 W. Main St. 4C  
 Rapid City, South Dakota 57702  
 Phone: 605-343-9898

**ARCHITECT OF RECORD**

A/E:

**STONE GROUP ARCHITECTS**

**STAMP**

REGISTERED PROFESSIONAL ENGINEER  
 8462  
 MICHAEL SEAN  
 HEWSON  
 SOUTH DAKOTA  
 7/22/2010

**Office of Construction and Facilities Management**

**VA U.S. Department of Veterans Affairs**

**Drawing Title**  
 FIRE PROTECTION PLANS

Approved:

**Phase**  
 CONSTRUCTION DOCUMENTS

**FULLY SPRINKLERED**

**Project Title**  
 VA FM UPGRADE MENTAL HEALTH LOCK WARD

**Location**  
 FORT MEADE, SOUTH DAKOTA

**Issue Date**  
 08/26/2022

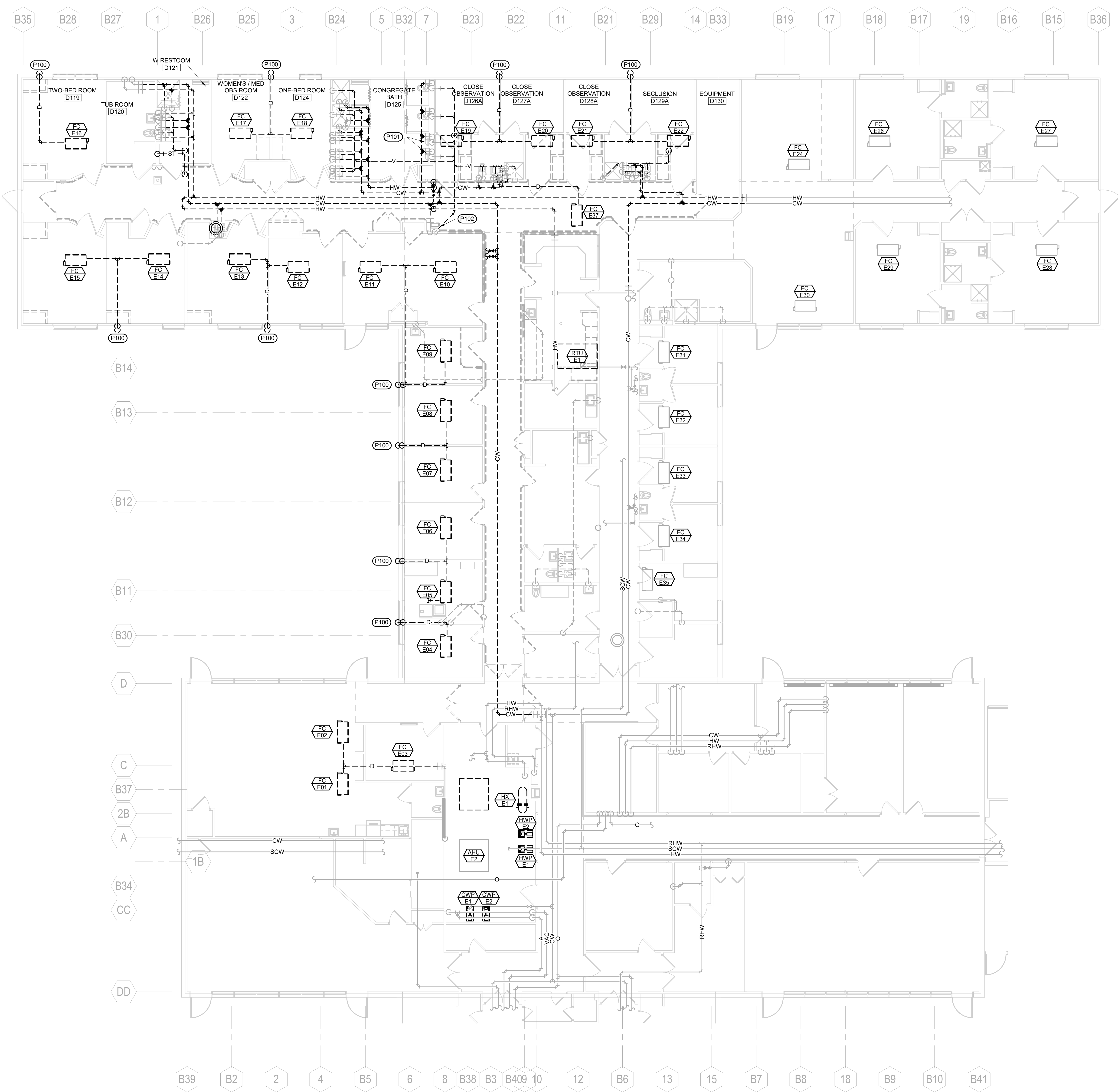
**Checked**  
 MSH

**Drawn**  
 MMM/KJH

**Project Number**  
 VA #66-20-102  
 SGA #211937

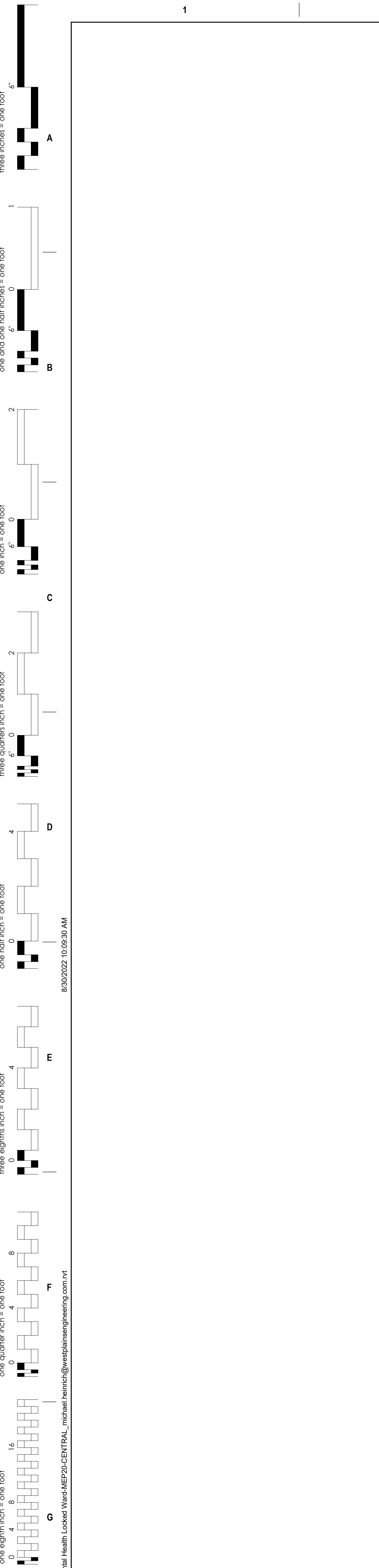
**Building Number**  
 #148

**Drawing Number**  
 FX101



- GENERAL MECHANICAL NOTES**
- A COORDINATE PHASING AND REMOVAL OF EXISTING PIPING AND EQUIPMENT WITH OWNER.
  - B REMOVE EXISTING PIPING, FIXTURES, ETC. WHERE INDICATED BY HATCHING. CAP PIPING DURING CONSTRUCTION.
  - C CONTRACTOR TO CONFIRM LOCATIONS OF EXISTING PIPING AND EQUIPMENT.
  - D THE MECHANICAL CONTRACTOR WILL BE RESPONSIBLE FOR ENSURING THAT AREAS OUTSIDE THE CURRENT WORK AREA CONTINUE TO BE SERVED BY DOMESTIC WATER, SANITARY, ETC. SO AS NOT TO INTERRUPT OWNER WORK FLOW. ALL OUTAGES OF DOMESTIC WATER SHALL BE COORDINATED IN ADVANCE WITH OWNER AND WILL BE REQUIRED TO OCCUR DURING TIMES OF LOW USE. THIS WILL REQUIRE THE CONTRACTOR TO WORK OTHER THAN NORMAL WORK HOURS AT NO ADDITIONAL COST TO THE OWNER.
- MECHANICAL SPECIFIC NOTES**
- P100 CAP AND ABANDON EXISTING CONDENSATE DRAINS WITHIN WALLS.
  - P101 REMOVE EXISTING URINALS FOR REPLACEMENT. REFER TO SHEET PP-101, 1ST LEVEL PLUMBING REMODEL PLAN.
  - P102 REMOVE EXISTING DRINKING FOUNTAIN FOR REPLACEMENT. REFER TO SHEET PP-101, 1ST LEVEL PLUMBING REMODEL PLAN.

1 1ST LEVEL PLUMBING DEMOLITION PLAN  
1/8" = 1'-0"



**CONSULTANTS**

MECHANICAL / ELECTRICAL / PLUMBING:  
**WPE**  
West Plains Engineering, Inc.  
1750 Rand Road  
Rapid City, South Dakota 57702  
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STRUCTURAL:  
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**ARCHITECT OF RECORD**

A/E:  
**STONE GROUP ARCHITECTS**

**STAMP**

REGISTERED PROFESSIONAL ENGINEER  
8462 MICHAEL SEAN HENRICH  
SOUTH DAKOTA  
11/11/2017

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

Drawing Title  
**1ST LEVEL PLUMBING DEMOLITION PLAN**

Approved:

Phase  
**CONSTRUCTION DOCUMENTS**

FULLY SPRINKLERED

Project Title  
**VA FM UPGRADE MENTAL HEALTH LOCK WARD**

Location  
**FORT MEADE, SOUTH DAKOTA**

Issue Date  
**08/26/2022**

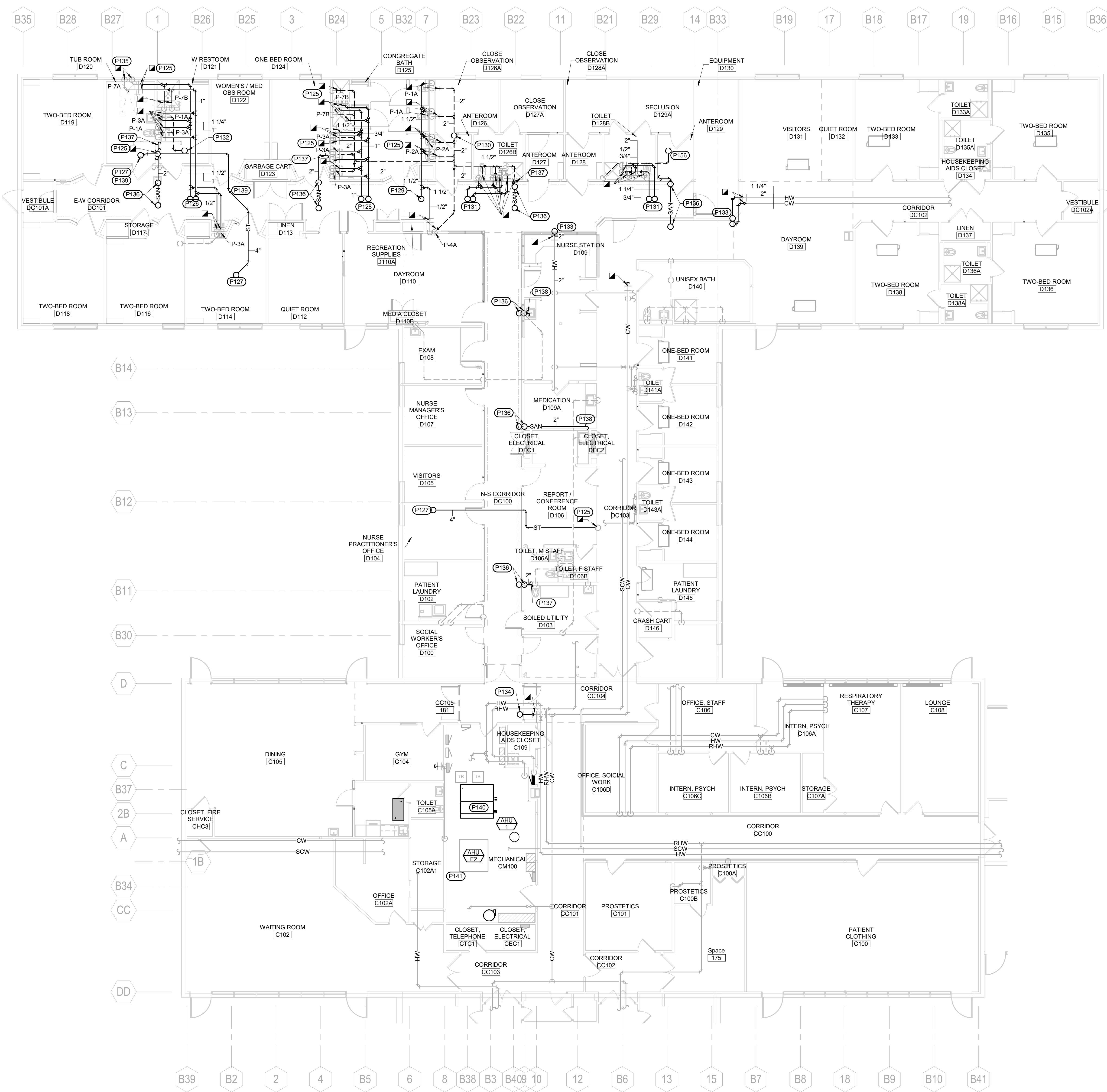
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Drawn  
**MMMKJH**

Project Number  
**VA #68-20-102 SGA #211937**

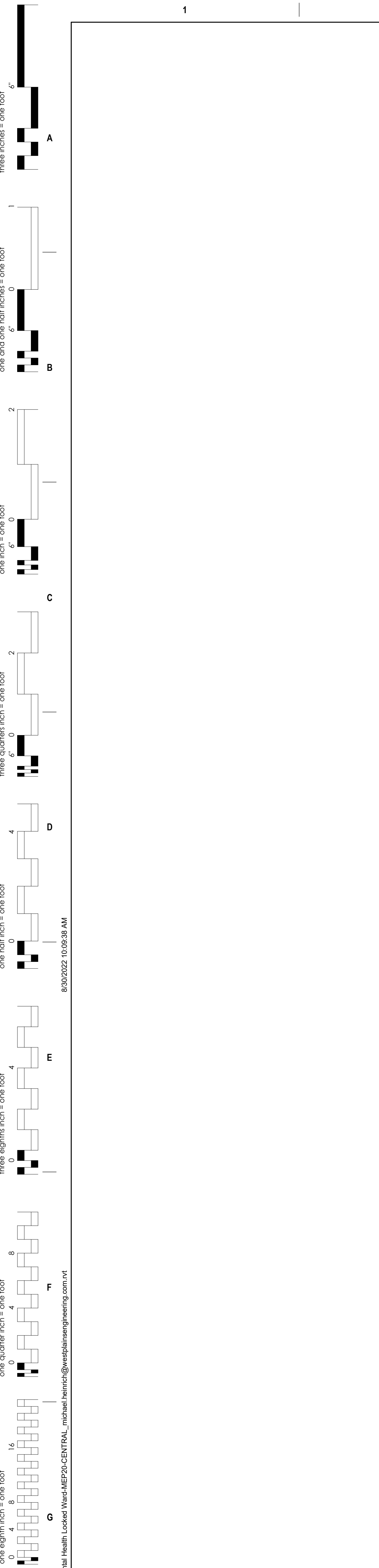
Building Number  
**#148**

Drawing Number  
**PD-101**



- GENERAL MECHANICAL NOTES**
- A CONTRACTOR SHALL COORDINATE PIPE ROUTING WITH OTHER TRADES. PROVIDE ALL ADDITIONAL OFFSETS AS REQUIRED TO COMPLETE INSTALLATION.
  - B CONTRACTOR TO CONFIRM SIZE AND LOCATION OF EXISTING PIPING.
  - C PIPING SHOWN FOR CLARITY. ROUTE ALL PIPING ABOVE CEILINGS, IN CHASES, AND IN WALLS AS REQUIRED.
  - D COORDINATE LOCATION OF ALL CLEANOUTS FOR ACCESSIBILITY.
  - E 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.
  - F DOMESTIC WATER RECIRCULATION BALANCING VALVES SHALL BE AN AUTOFLOW STYLE VALVE, 0.33 GPM.
- MECHANICAL SPECIFIC NOTES**
- P125 CONNECT NEW PIPING TO EXISTING WITHIN THIS AREA. CONTRACTOR TO CONFIRM LOCATION OF PIPING.
  - P126 1-1/2" CW AND 1" HW DOWN FROM ROOF LEVEL. REFER TO PP-102, ROOF PLUMBING PLAN, FOR CONTINUATION.
  - P127 4" ST DOWN FROM ROOF LEVEL. REFER TO PP-102, ROOF PLUMBING PLAN, FOR CONTINUATION.
  - P128 1" CW AND HW DOWN FROM ROOF LEVEL. REFER TO PP-102, ROOF PLUMBING PLAN, FOR CONTINUATION.
  - P129 1-1/2" CW DOWN FROM ROOF LEVEL. REFER TO PP-102, ROOF PLUMBING PLAN, FOR CONTINUATION.
  - P130 3" VENT UP, 4" VTR.
  - P131 1-1/4" CW AND 3/4" HW DOWN FROM ROOF LEVEL. REFER TO PP-102, ROOF PLUMBING PLAN, FOR CONTINUATION.
  - P132 2" VENT UP, 3" VTR.
  - P133 2" CW AND 1" HW DOWN FROM ROOF LEVEL. REFER TO PP-102, ROOF PLUMBING PLAN, FOR CONTINUATION.
  - P134 2-1/2" CW DOWN FROM ROOF LEVEL. REFER TO PP-102, ROOF PLUMBING PLAN, FOR CONTINUATION.
  - P135 REPLACE EXISTING STOPS TO SERVE NEW TUB. CONNECT NEW SUPPLIES AND DRAIN SERVING P-7A FIXTURE TO EXISTING WITHIN THIS AREA.
  - P136 2" SAN AND 1-1/2" VENT SERVING FLOOR DRAIN IN MECHANICAL PENTHOUSE. REFER TO PP-102, ROOF PLUMBING PLAN, FOR CONTINUATION.
  - P137 CONNECT 2" SAN SERVING FLOOR DRAIN IN PENTHOUSE TO EXISTING SAN SERVING WATER CLOSET.
  - P138 CONNECT 2" SAN SERVING FLOOR DRAIN IN PENTHOUSE TO EXISTING SAN SERVING SINK.
  - P139 INSTALL PIPING ABOVE DUCTWORK. ROUTE PIPING WITHIN JUST SPACE AND THROUGH WEBSING AS NECESSARY TO MAINTAIN NECESSARY CEILING CLEARANCE.
  - P140 PROVIDE 1" CONDENSATE DRAIN FROM AHU-1 TO FLOOR DRAIN WITHIN MECH ROOM (APPROXIMATELY 20 FT).
  - P141 RELOCATE EXISTING 3" SAN, 2" ST, 3" CW, AND MISCELLANEOUS PIPING AS NECESSARY FOR INSTALLATION OF NEW DUCTWORK (APPROXIMATELY 50 FT). COORDINATE RELOCATION WITH HVAC CONTRACTOR.
  - P156 2" VENT UP, 3" VTR.

1 1ST LEVEL PLUMBING REMODEL PLAN  
1/8" = 1'-0"



Revision#	Description	Date:

**CONSULTANTS**

**MECHANICAL / ELECTRICAL / PLUMBING:**  
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 1750 Rural Road  
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**STRUCTURAL:**  
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 Phone: 605-343-9959

**ARCHITECT OF RECORD**

A/E:  
**STONE GROUP ARCHITECTS**



**Office of Construction and Facilities Management**

U.S. Department of Veterans Affairs

Drawing Title  
**1ST LEVEL PLUMBING REMODEL PLAN**

Approved: \_\_\_\_\_

Phase  
**CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**VA FM UPGRADE MENTAL HEALTH LOCK WARD**

Location  
**FORT MEADE, SOUTH DAKOTA**

Issue Date  
**08/26/2022**

Checked  
**MSH**

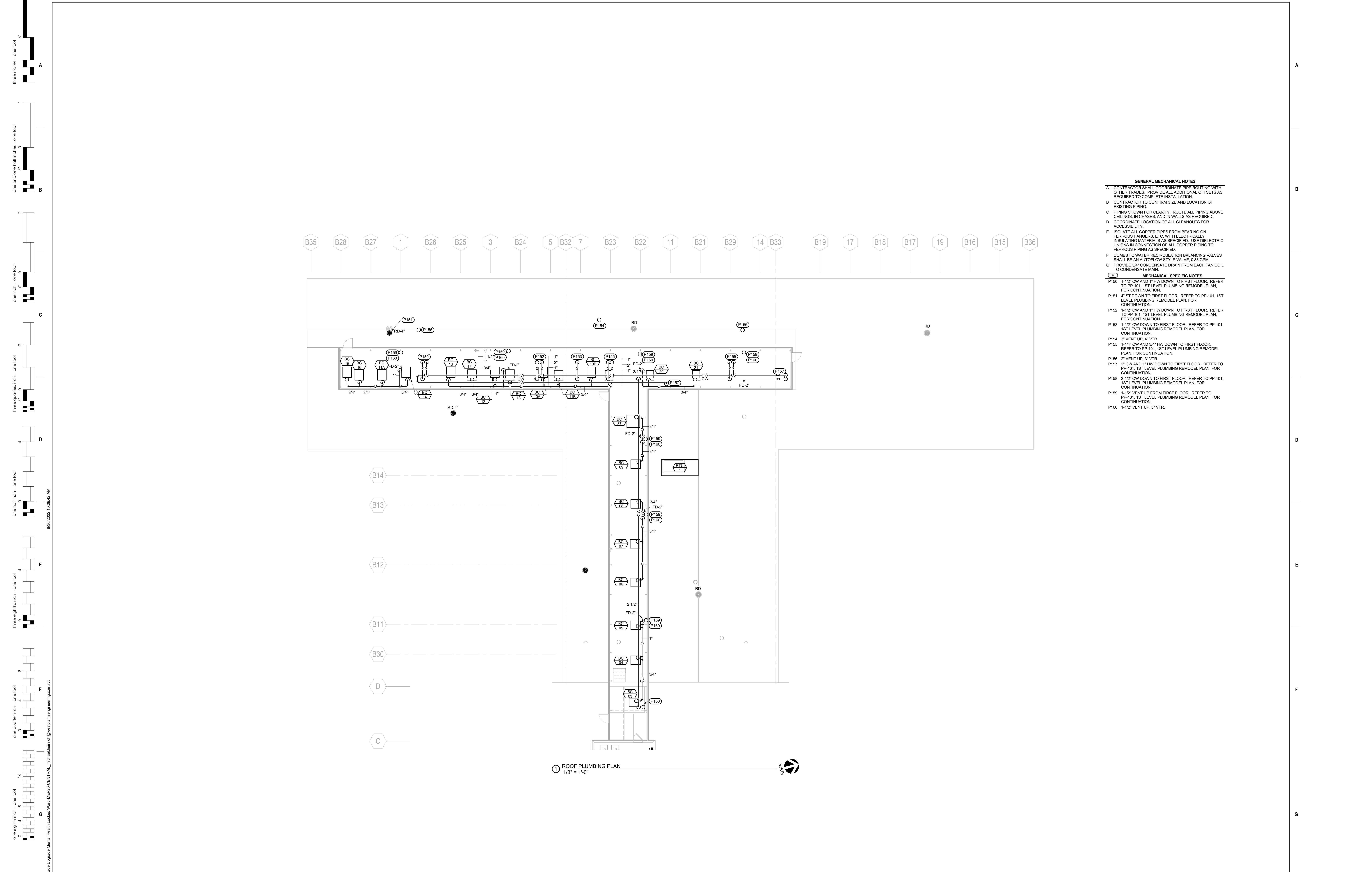
Drawn  
**MMK/KJH**

Project Number  
**VA #68-20-102 SGA #211937**

Building Number  
**#148**

Drawing Number  
**PP-101**





- GENERAL MECHANICAL NOTES**
- A CONTRACTOR SHALL COORDINATE PIPE ROUTING WITH OTHER TRADES. PROVIDE ALL ADDITIONAL OFFSETS AS REQUIRED TO COMPLETE INSTALLATION.
  - B CONTRACTOR TO CONFIRM SIZE AND LOCATION OF EXISTING PIPING.
  - C PIPING SHOWN FOR CLARITY. ROUTE ALL PIPING ABOVE CEILING, IN CHASES, AND IN WALLS AS REQUIRED.
  - D COORDINATE LOCATION OF ALL CLEANOUTS FOR ACCESSIBILITY.
  - E 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.
  - F DOMESTIC WATER RECIRCULATION BALANCING VALVES SHALL BE AN AUTOFLOW STYLE VALVE, 0.33 GPM.
  - G PROVIDE 3/4\" CONDENSATE DRAIN FROM EACH FAN COIL TO CONDENSATE MAIN.
- MECHANICAL SPECIFIC NOTES**
- P150 1-1/2\" CW AND 1\" HW DOWN TO FIRST FLOOR. REFER TO PP-101, 1ST LEVEL PLUMBING REMODEL PLAN, FOR CONTINUATION.
  - P151 4\" ST DOWN TO FIRST FLOOR. REFER TO PP-101, 1ST LEVEL PLUMBING REMODEL PLAN, FOR CONTINUATION.
  - P152 1-1/2\" CW AND 1\" HW DOWN TO FIRST FLOOR. REFER TO PP-101, 1ST LEVEL PLUMBING REMODEL PLAN, FOR CONTINUATION.
  - P153 1-1/2\" CW DOWN TO FIRST FLOOR. REFER TO PP-101, 1ST LEVEL PLUMBING REMODEL PLAN, FOR CONTINUATION.
  - P154 3\" VENT UP, 4\" VTR.
  - P155 1-1/4\" CW AND 3/4\" HW DOWN TO FIRST FLOOR. REFER TO PP-101, 1ST LEVEL PLUMBING REMODEL PLAN, FOR CONTINUATION.
  - P156 2\" VENT UP, 3\" VTR.
  - P157 2\" CW AND 1\" HW DOWN TO FIRST FLOOR. REFER TO PP-101, 1ST LEVEL PLUMBING REMODEL PLAN, FOR CONTINUATION.
  - P158 2-1/2\" CW DOWN TO FIRST FLOOR. REFER TO PP-101, 1ST LEVEL PLUMBING REMODEL PLAN, FOR CONTINUATION.
  - P159 1-1/2\" VENT UP FROM FIRST FLOOR. REFER TO PP-101, 1ST LEVEL PLUMBING REMODEL PLAN, FOR CONTINUATION.
  - P160 1-1/2\" VENT UP, 3\" VTR.

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

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

Revision#	Description	Date:

**CONSULTANTS**

<p><b>MECHANICAL / ELECTRICAL / PLUMBING:</b></p> <p><b>WPE</b> West Plains Engineering, Inc. 1750 Rapid Road Rapid City, South Dakota 57702 Phone: 605-348-7455</p>	<p><b>STRUCTURAL:</b></p> <p><b>Albertson Engineering, Inc.</b> Albertson Engineering, Inc. 3202 W. Main St. 4C Rapid City, South Dakota 57702 Phone: 605-343-9956</p>
--	--

**ARCHITECT OF RECORD**

A/E:

**STONE GROUP ARCHITECTS**

**STAMP**

REGISTERED PROFESSIONAL ENGINEER  
8462 MICHAEL SEAN HENRICH  
SOUTH DAKOTA  
10/10/2019

**Office of Construction and Facilities Management**

**VA U.S. Department of Veterans Affairs**

**Drawing Title**  
ROOF PLUMBING PLAN

Approved: \_\_\_\_\_

**Phase**  
CONSTRUCTION DOCUMENTS

**FULLY SPRINKLERED**

**Project Title**  
VA FM UPGRADE MENTAL HEALTH LOCK WARD

**Location**  
FORT MEADE, SOUTH DAKOTA

**Issue Date**  
08/26/2022

**Checked**  
MSH

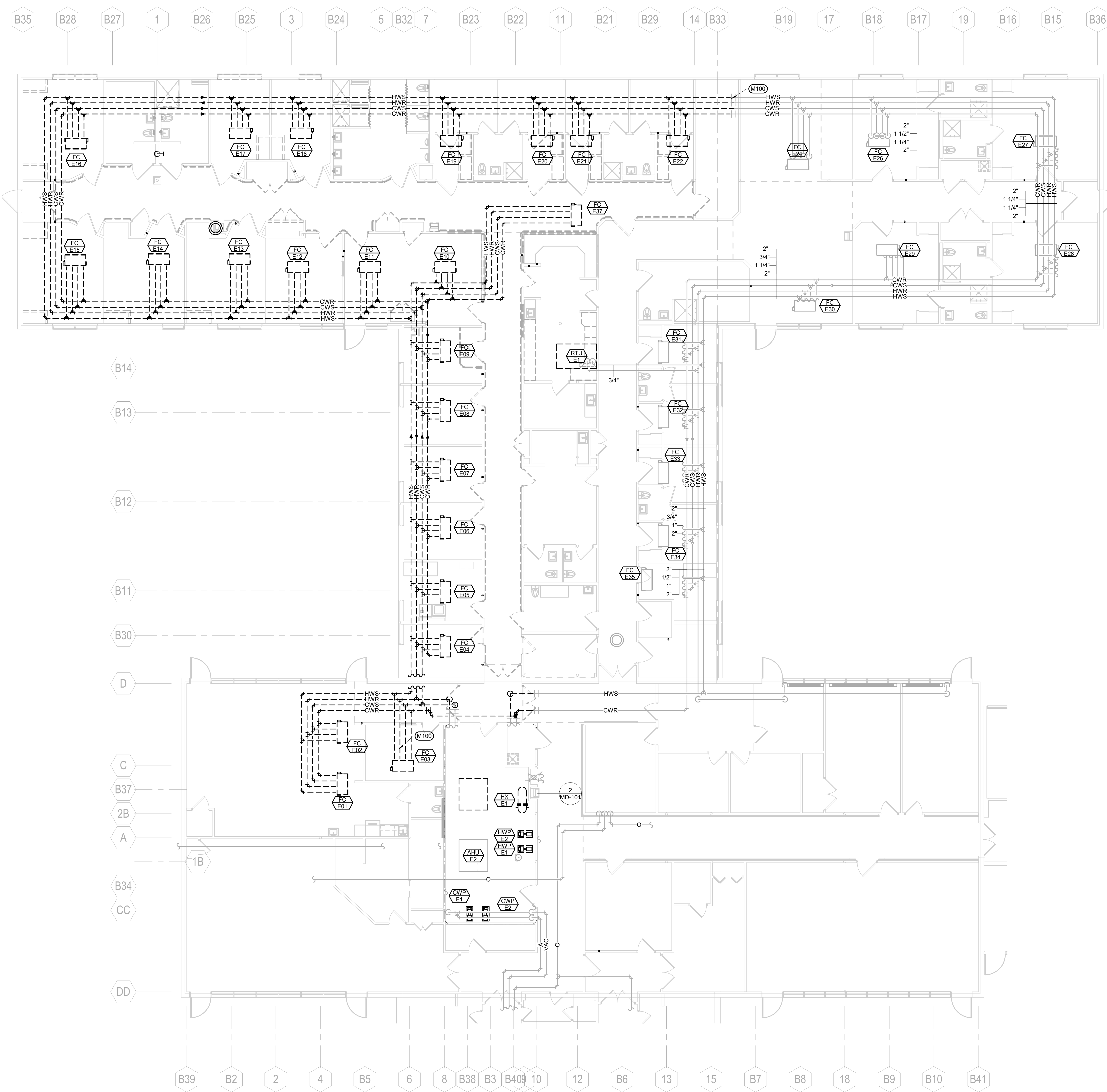
**Drawn**  
MMM/KJH

**Project Number**  
VA #68-20-102  
SGA #211937

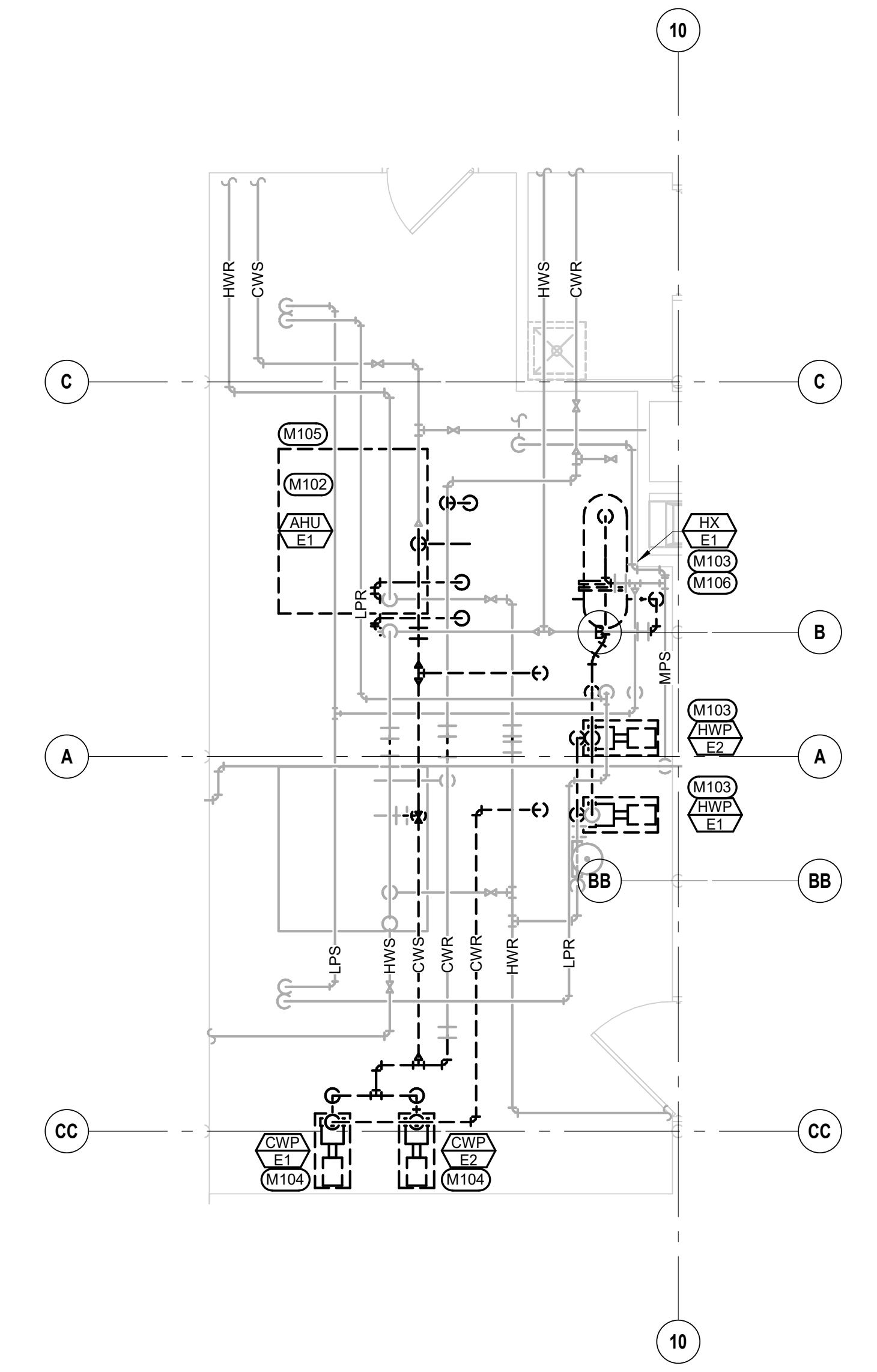
**Building Number**  
#148

**Drawing Number**  
PP-102

- GENERAL MECHANICAL NOTES**
- A COORDINATE PHASING AND REMOVAL OF EXISTING PIPING AND EQUIPMENT WITH OWNER.
  - B REMOVE EXISTING PIPING, EQUIPMENT, ETC. WHERE DASHED. CAP PIPING DURING CONSTRUCTION.
  - C CONTRACTOR TO CONFIRM LOCATIONS OF EXISTING PIPING AND EQUIPMENT.
- MECHANICAL SPECIFIC NOTES**
- M100 TEMPORARILY CAP EXISTING HWS, HWR, CWS, AND CWR PIPING AS NECESSARY DURING CONSTRUCTION.
  - M102 REMOVE EXISTING PIPING SERVING AHU-E1. TEMPORARILY CAP PIPING DURING CONSTRUCTION. REFER TO SHEET MP-101, 1ST LEVEL PIPING REMODEL PLAN, FOR NEW WORK WITHIN THIS AREA.
  - M103 REMOVE EXISTING HX-E1, HWR-E1, HWR-E2, AND ASSOCIATED HWS, HWR, MPS, AND MPR PIPING WHERE INDICATED. TEMPORARILY CAP PIPING DURING CONSTRUCTION. REFER TO SHEET MP-101, 1ST LEVEL PIPING REMODEL PLAN, FOR NEW WORK WITHIN THIS AREA.
  - M104 REMOVE EXISTING CWP-E1, CWP-E2, AND ASSOCIATED CWS AND CWR PIPING WHERE INDICATED. TEMPORARILY CAP PIPING DURING CONSTRUCTION. REFER TO SHEET MP-101, 1ST LEVEL PIPING REMODEL PLAN, FOR NEW WORK WITHIN THIS AREA.
  - M105 CONTRACTOR MAY REMOVE AND/OR RELOCATE EXISTING WATER HEATER AS NECESSARY FOR REMOVAL OF AIR HANDLING UNIT. PROVIDE TEMPORARY WATER HEATER AS NECESSARY TO SERVE FACILITY WITH A MINIMUM OF 50 GALLONS/HR DELIVERY AT 100 DEGREE TEMPERATURE RISE.
  - M106 PIPING WITHIN THIS AREA IS TIGHT. REMOVE EXISTING AND PROVIDE ADDITIONAL PIPING (APPROXIMATELY 50 FT OF 2" AND ELBOWS APPROXIMATELY TEN 90 DEGREE 2") AS NECESSARY FOR INSTALLATION OF NEW HEAT EXCHANGERS.



1 1ST LEVEL PIPING DEMOLITION PLAN  
1/8" = 1'-0"



2 ENLARGED MECHANICAL ROOM PIPING DEMOLITION PLAN  
1/4" = 1'-0"

Revision#	Description	Date:

**CONSULTANTS**

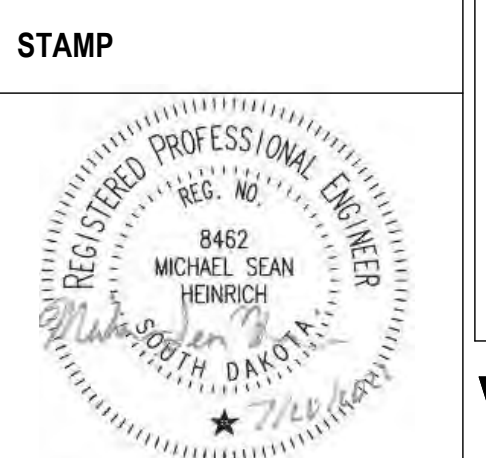
**MECHANICAL / ELECTRICAL / PLUMBING:**  
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**STRUCTURAL:**  
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**ARCHITECT OF RECORD**

A/E:

**STONE GROUP ARCHITECTS**



**Office of Construction and Facilities Management**

**VA U.S. Department of Veterans Affairs**

**Drawing Title**  
1ST LEVEL HVAC PIPING DEMOLITION PLAN

**Approved:**

**Phase**  
CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

**Project Title**  
VA FM UPGRADE MENTAL HEALTH LOCK WARD

**Location**  
FORT MEADE, SOUTH DAKOTA

**Issue Date**  
08/26/2022

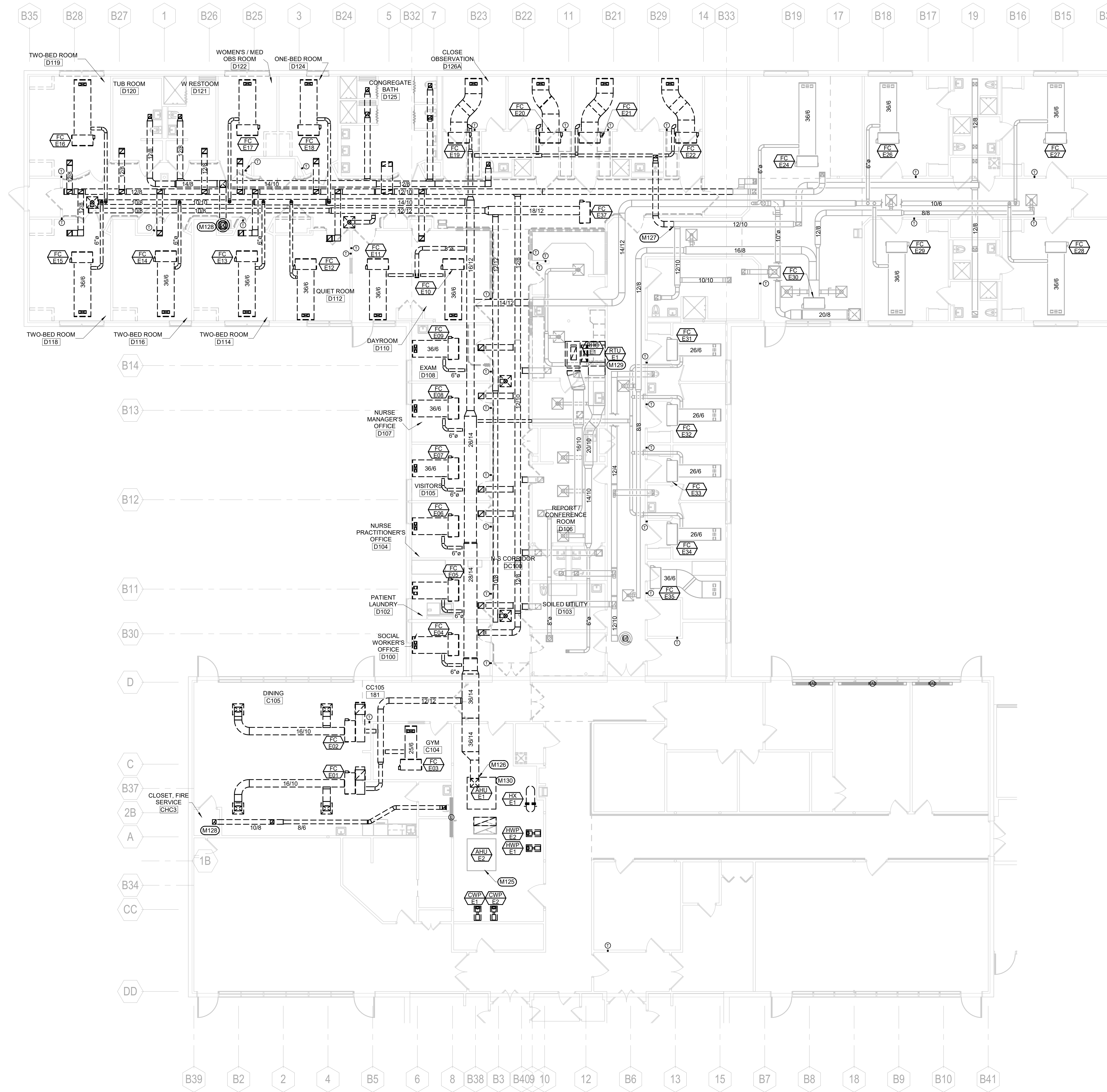
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**Drawn**  
MMMKJH

**Project Number**  
VA #68-20-102  
SGA #211937

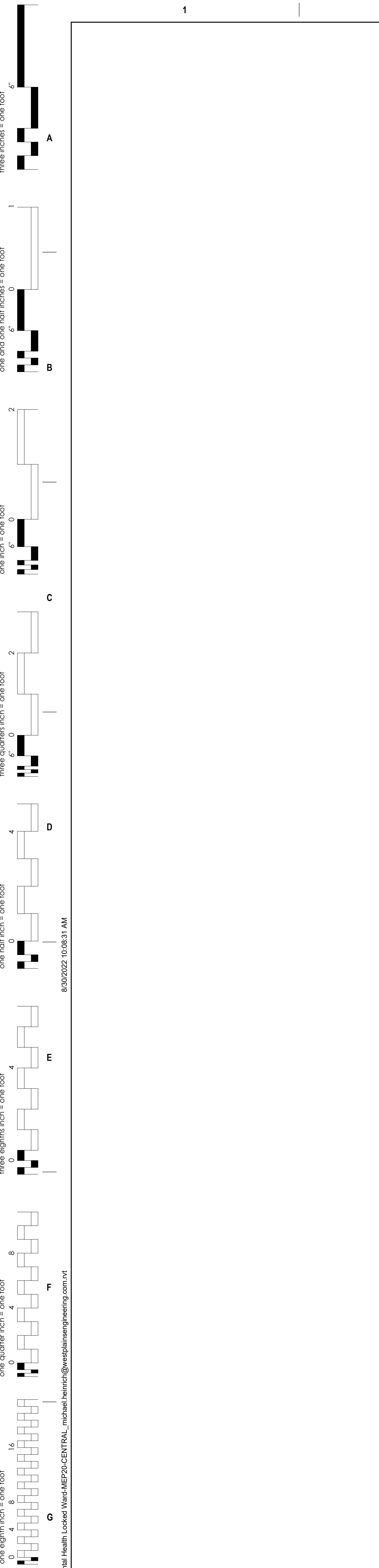
**Building Number**  
#148

**Drawing Number**  
MD-101



1 1ST LEVEL HVAC DEMOLITION PLAN  
1/8" = 1'-0"

- GENERAL MECHANICAL NOTES**
- A COORDINATE PHASING AND REMOVAL OF EXISTING DUCTWORK AND EQUIPMENT WITH CONTRACTING OFFICER.
  - B REMOVE EXISTING DUCTWORK, EQUIPMENT, ETC. WHERE DASHED. CAP DUCTWORK DURING CONSTRUCTION.
  - C CONTRACTOR TO CONFIRM LOCATIONS OF EXISTING DUCTWORK AND EQUIPMENT.
- MECHANICAL SPECIFIC NOTES**
- M125 EXISTING AHU-E2 TO REMAIN.
  - M126 CONTRACTOR MAY REMOVE AND/OR RELOCATE EXISTING WATER HEATER AS NECESSARY FOR REMOVAL OF AIR HANDLING UNIT. PROVIDE TEMPORARY WATER HEATER AS NECESSARY TO SERVE FACILITY WITH A MINIMUM OF 50 GALLONS/HR DELIVERY AT 100 DEGREE TEMPERATURE RISE.
  - M127 CAP EXISTING EXHAUST DUCT.
  - M128 REMOVE EXISTING EXHAUST FAN ON ROOF AND ASSOCIATED DUCTWORK.
  - M129 REMOVE EXISTING RTU-E1 FOR REPLACEMENT. REFER TO SHEET MH-101, 1ST LEVEL HVAC REMODEL PLAN, AND MH-102, ROOF HVAC PLAN, FOR CONTRIBUTION.
  - M130 REMOVE EXISTING AHU-E1 AND ASSOCIATED SUPPLY AND OUTSIDE AIR DUCTWORK AS INDICATED BY DASHED DUCTWORK.



Revision#	Description	Date:

**CONSULTANTS**

MECHANICAL / ELECTRICAL / PLUMBING:  
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**ARCHITECT OF RECORD**

A/E:  
**STONE GROUP ARCHITECTS**



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

Drawing Title  
**1ST LEVEL HVAC DEMOLITION PLAN**

Approved:

Phase  
**CONSTRUCTION DOCUMENTS**

FULLY SPRINKLERED

Project Title  
**VA FM UPGRADE MENTAL HEALTH LOCK WARD**

Location  
**FORT MEADE, SOUTH DAKOTA**

Issue Date  
**08/26/2022**

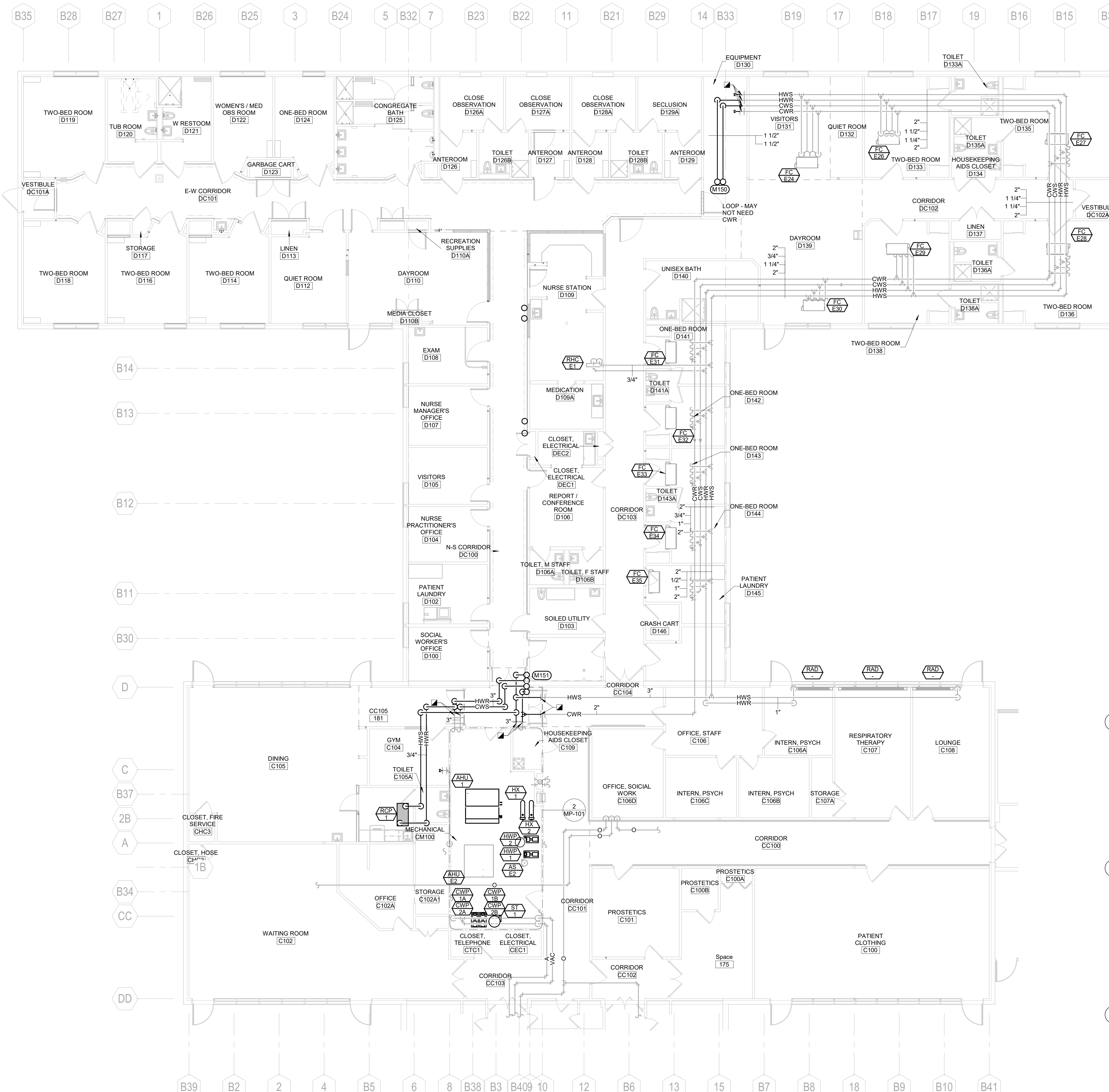
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Drawn  
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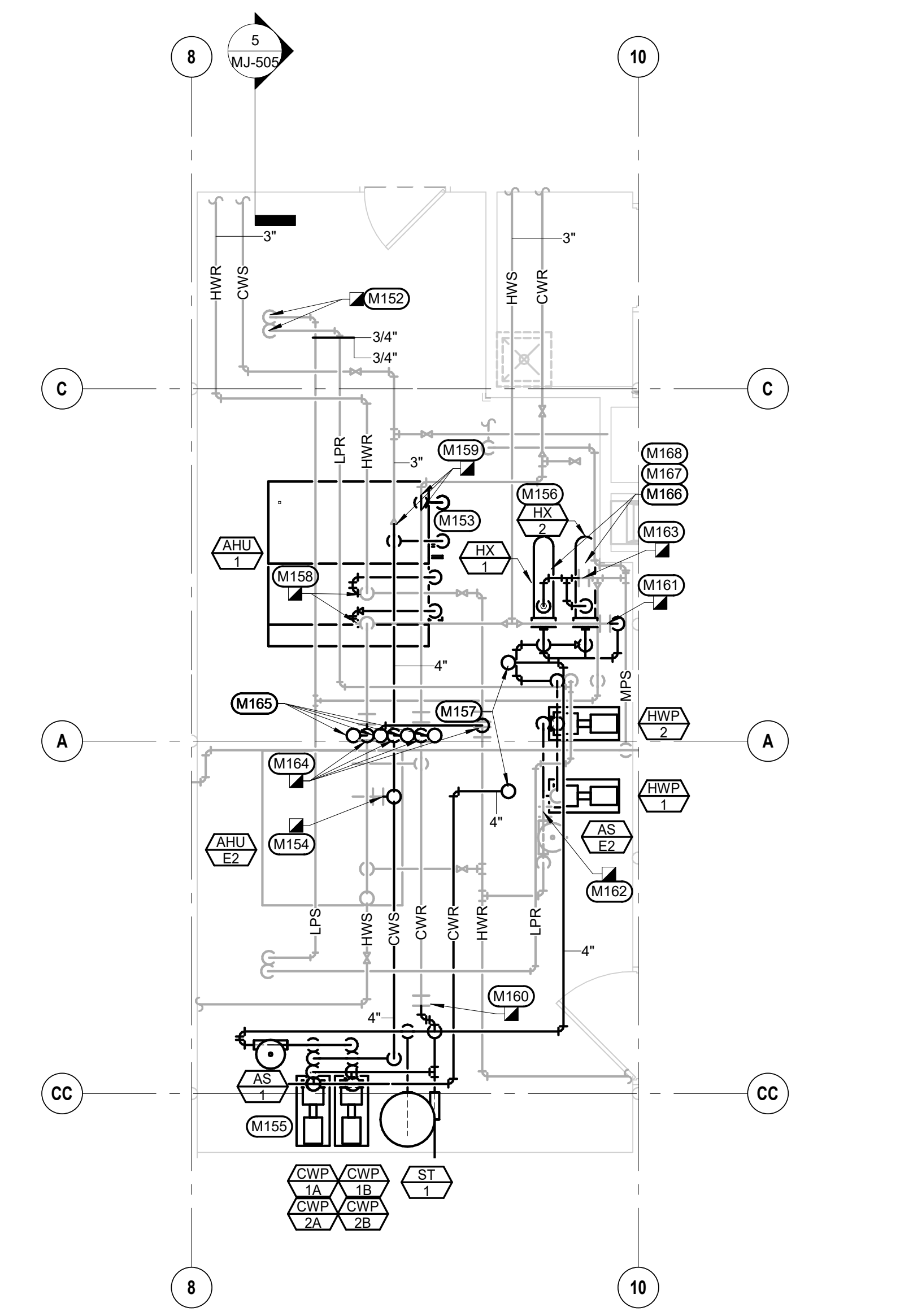
Project Number  
**VA #568-20-102 SGA #211937**

Building Number  
**#148**

Drawing Number  
**MD-201**



1 1ST LEVEL PIPING REMODEL PLAN  
1/8" = 1'-0"



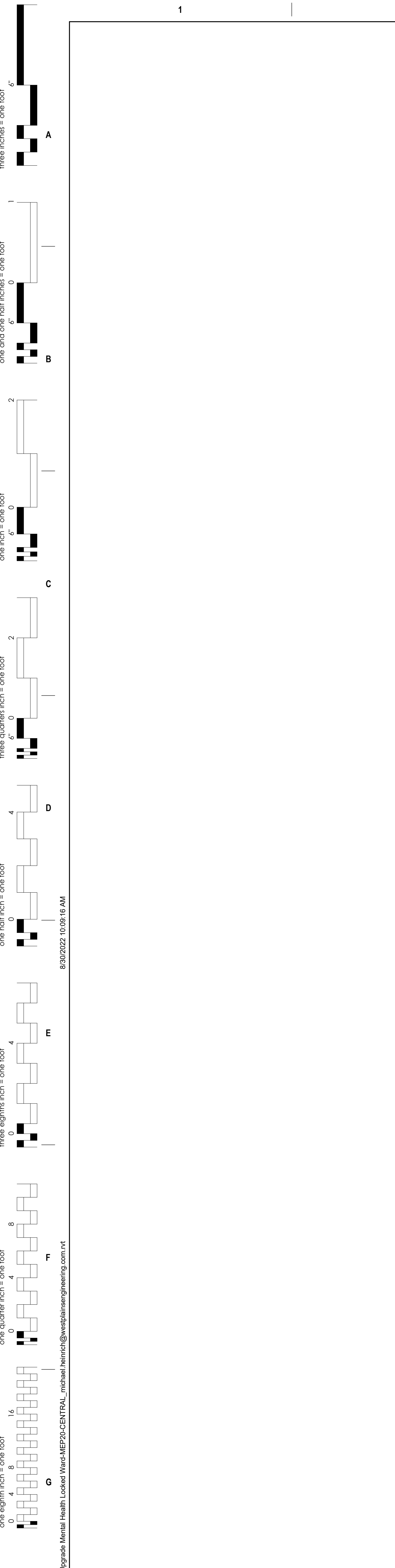
2 ENLARGED MECHANICAL ROOM PIPING REMODEL PLAN  
1/4" = 1'-0"

**GENERAL MECHANICAL NOTES**

- A COORDINATE LOCATIONS OF PIPING WITH STRUCTURE AND OTHER TRADES.
- B 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.
- C 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.
- D ALL EQUIPMENT MUST FIT WITHIN CURRENT EQUIPMENT ENCLOSURE DIMENSIONS. THIS SHALL INCLUDE ASSOCIATED SERVICE AND AIRFLOW CLEARANCES TO PROVIDE 100% OF EQUIPMENT CAPACITY AND SERVICEABILITY.

**MECHANICAL SPECIFIC NOTES**

- M150 1-1/2" HWR AND 1-1/2" CWS PIPING UP TO ROOF. REFER TO MP-102, ROOF PIPING PLAN, FOR CONTINUATION.
- M151 2-1/2" HWR, 2-1/2" HWR, 3" CWS, AND 3" CWR PIPING UP TO ROOF. REFER TO MP-102, ROOF PIPING PLAN, FOR CONTINUATION.
- M152 CONNECT NEW 3/4" LPS AND 3/4" LPR PIPING SERVING NEW HUMIDIFIER TO EXISTING WITHIN THIS LOCATION.
- M153 3" CWS AND CWR PIPING DOWN TO AHU-1.
- M154 CONNECT NEW 1-1/2" CWS PIPING TO EXISTING SERVING AHU-2.
- M155 REFER TO 6MJ-501 CHILLED WATER PIPING SCHEMATIC.
- M156 REFER TO 7MJ-501 CONVERTER SCHEMATIC.
- M157 4" CHILLED WATER PIPING TO CHILLER.
- M158 CONNECT NEW 2-1/2" HWR AND HWR PIPING SERVING AHU-1 TO EXISTING WITHIN THIS LOCATION.
- M159 CONNECT NEW 4" CWS AND CWR PIPING TO EXISTING WITHIN THIS LOCATION.
- M160 CONNECT NEW 4" CWR PIPING TO EXISTING WITHIN THIS LOCATION.
- M161 CONNECT NEW 3" HWR PIPING TO EXISTING WITHIN THIS LOCATION.
- M162 CONNECT NEW 3" HWR PIPING TO EXISTING WITHIN THIS LOCATION.
- M163 CONNECT NEW 2" MPS TO EXISTING WITHIN THIS AREA.
- M164 CONNECT NEW 1-1/4" HWR, 1-1/4" HWR, 2" CWS, AND 2" CWR TO EXISTING WITHIN THIS AREA.
- M165 1-1/4" HWR, 1-1/4" HWR, 2" CWS, AND 2" CWR PIPING UP TO PENTHOUSE. REFER TO MP-102, ROOF PIPING PLAN, FOR CONTINUATION.
- M166 PIPING WITHIN THIS AREA IS TIGHT. PROVIDE ADDITIONAL PIPING (APPROXIMATELY 50 FT OF 2") AND ELBOWS (APPROXIMATELY TEN BY DEGREE 2") AS NECESSARY FOR INSTALLATION OF NEW HEAT EXCHANGERS.
- M167 HEAT EXCHANGERS SHOWN FOR CLARITY. HEAT EXCHANGERS TO BE STACKED.
- M168 RELOCATE STEAM CONTROL VALVE ASSEMBLY AS NECESSARY FOR INSTALLATION OF NEW HEAT EXCHANGERS.



Revision#	Description	Date:

**CONSULTANTS**

**MECHANICAL / ELECTRICAL / PLUMBING:**  
**WPE**  
 West Plains Engineering, Inc.  
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**STRUCTURAL:**  
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 Rapid City, South Dakota 57702  
 Phone: 605-343-9899

**ARCHITECT OF RECORD**  
 A/E:  
**STONE GROUP ARCHITECTS**

**STAMP**  
 REGISTERED PROFESSIONAL ENGINEER  
 8452  
 MICHAEL SEAN  
 HENSON  
 SOUTH DAKOTA  
 No. 2727

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

**Drawing Title**  
 1ST LEVEL PIPING REMODEL PLAN

**Approved:**

**Phase**  
 CONSTRUCTION DOCUMENTS

**Project Title**  
 VA FM UPGRADE MENTAL HEALTH LOCK WARD

**Location**  
 FORT MEADE, SOUTH DAKOTA

**Issue Date**  
 08/26/2022

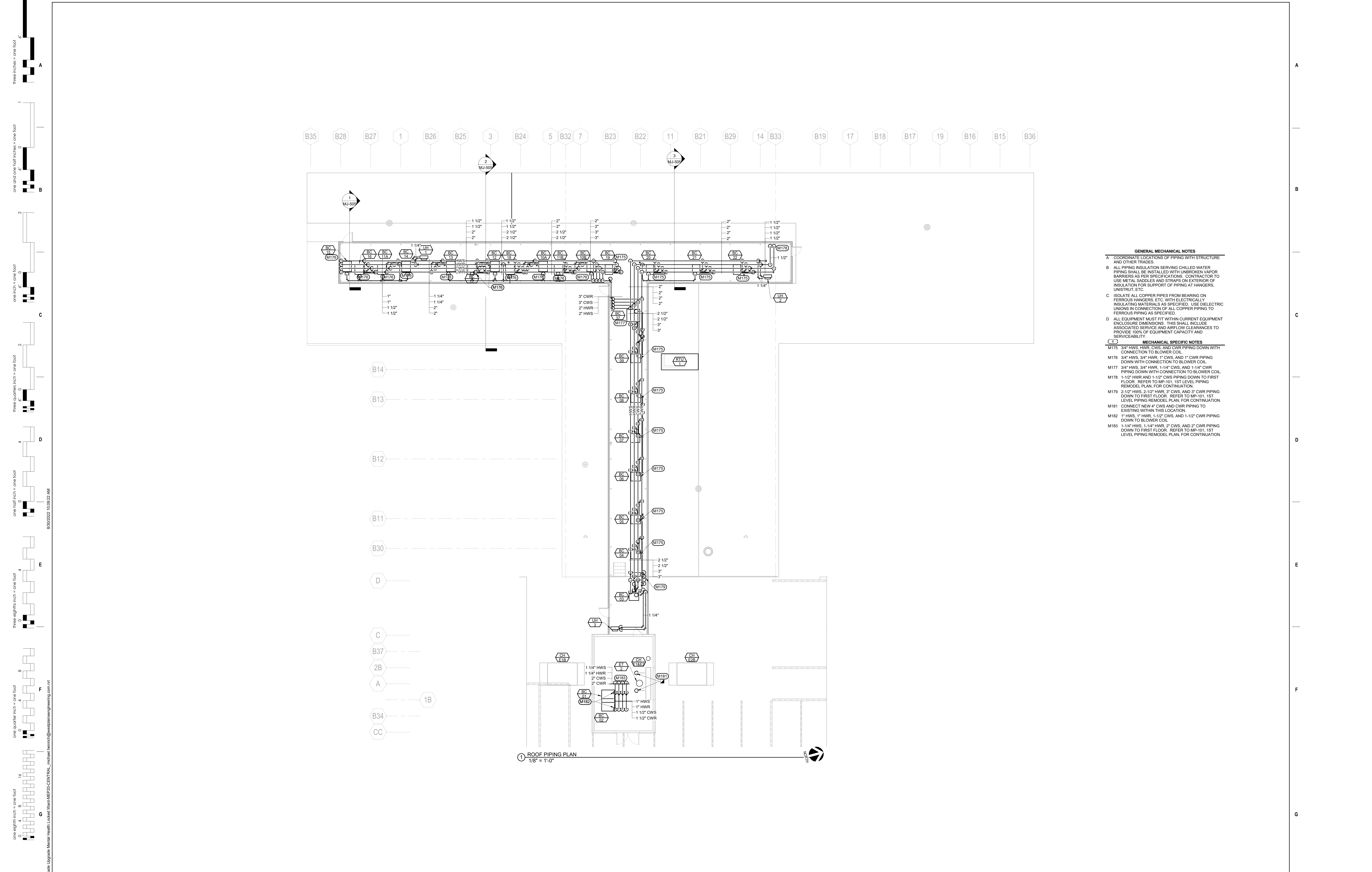
**Checked**  
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**Drawn**  
 MMM/KJH

**Project Number**  
 VA #568-20-102  
 SGA #211937

**Building Number**  
 #148

**Drawing Number**  
 MP-101



- GENERAL MECHANICAL NOTES**
- A. COORDINATE LOCATIONS OF PIPING WITH STRUCTURE AND OTHER TRADES.
  - B. 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.
  - C. 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.
  - D. ALL EQUIPMENT MUST FIT WITHIN CURRENT EQUIPMENT ENCLOSURE DIMENSIONS. THIS SHALL INCLUDE ASSOCIATED SERVICE AND AIRFLOW CLEARANCES TO PROVIDE 100% OF EQUIPMENT CAPACITY AND SERVICEABILITY.
- MECHANICAL SPECIFIC NOTES**
- M176 3/4" HWS, HWR, CWS, AND CWR PIPING DOWN WITH CONNECTION TO BLOWER COIL.
  - M176 3/4" HWS, 3/4" HWR, 1" CWS, AND 1" CWR PIPING DOWN WITH CONNECTION TO BLOWER COIL.
  - M177 3/4" HWS, 3/4" HWR, 1-1/4" CWS, AND 1-1/4" CWR PIPING DOWN WITH CONNECTION TO BLOWER COIL.
  - M178 1-1/2" HWR AND 1-1/2" CWS PIPING DOWN TO FIRST FLOOR. REFER TO MP-101, 1ST LEVEL PIPING REMODEL PLAN, FOR CONTINUATION.
  - M179 2-1/2" HWS, 2-1/2" HWR, 3" CWS, AND 3" CWR PIPING DOWN TO FIRST FLOOR. REFER TO MP-101, 1ST LEVEL PIPING REMODEL PLAN, FOR CONTINUATION.
  - M181 CONNECT NEW 4" CWS AND CWR PIPING TO EXISTING WITHIN THIS LOCATION.
  - M182 1" HWS, 1" HWR, 1-1/2" CWS, AND 1-1/2" CWR PIPING DOWN TO BLOWER COIL.
  - M183 1-1/4" HWS, 1-1/4" HWR, 2" CWS, AND 2" CWR PIPING DOWN TO FIRST FLOOR. REFER TO MP-101, 1ST LEVEL PIPING REMODEL PLAN, FOR CONTINUATION.

ROOF PIPING PLAN  
1/8" = 1'-0"

three inches = one foot  
 one and one half inches = one foot  
 one inch = one foot  
 three quarters inch = one foot  
 one half inch = one foot  
 three eighths inch = one foot  
 one quarter inch = one foot  
 one eighth inch = one foot  
 one eighth inch = one foot  
 one quarter inch = one foot  
 one eighth inch = one foot  
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Revision#	Description	Date:

**CONSULTANTS**

MECHANICAL / ELECTRICAL / PLUMBING: <b>WPE</b> West Plains Engineering, Inc. 1750 Rural Road Rapid City, South Dakota 57702 Phone: 605-348-7455	STRUCTURAL: Albertson Engineering, Inc. 3202 W. Main St. 4C Rapid City, South Dakota 57702 Phone: 605-343-9898
--	--

**ARCHITECT OF RECORD**

A/E:

**STAMP**

Office of Construction and Facilities Management

Drawing Title  
**ROOF PIPING PLAN**

Approved:

Phase  
**CONSTRUCTION DOCUMENTS**

FULLY SPRINKLERED

Project Title  
**VA FM UPGRADE MENTAL HEALTH LOCK WARD**

Location  
**FORT MEADE, SOUTH DAKOTA**

Issue Date  
**08/26/2022**

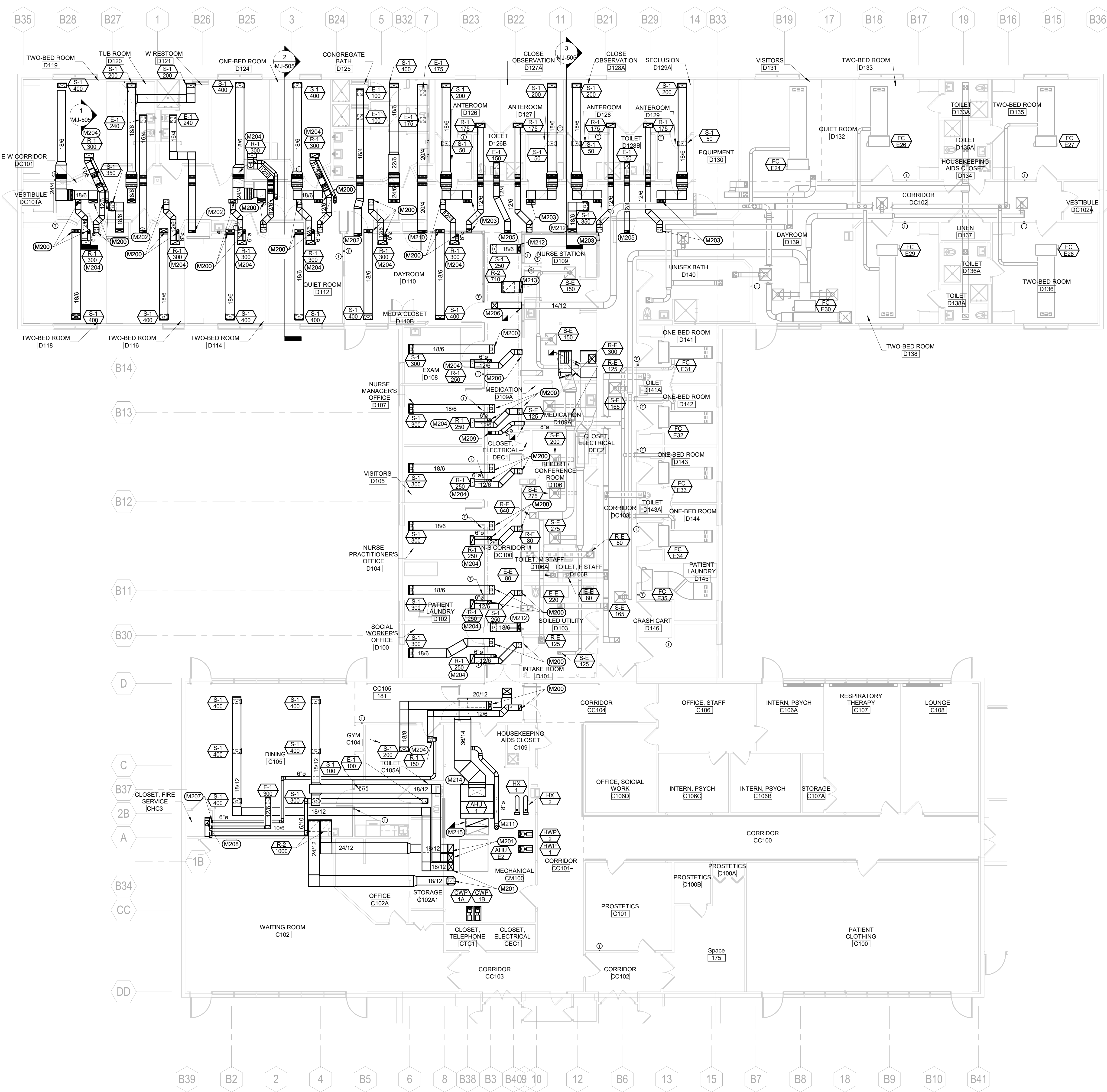
Checked  
**MSH**

Drawn  
**MMM/KJH**

Project Number  
**VA #66-20-102 SGA #211937**

Building Number  
**#148**

Drawing Number  
**MP-102**



- GENERAL MECHANICAL NOTES**
- A COORDINATE LOCATION OF DUCTWORK WITH STRUCTURE AND OTHER TRADES. INSTALL DUCTWORK AS HIGH AS POSSIBLE.
  - B SPACE ABOVE CEILING IS LIMITED. CONTRACTOR SHALL COORDINATE ALL DUCT AND PIPE ROUTING WITH ALL OTHER TRADES. PROVIDE ALL ADDITIONAL OFFSETS AND TRANSITIONS AS REQUIRED TO COMPLETE INSTALLATION.
- MECHANICAL SPECIFIC NOTES**
- M200 18" SUPPLY, 12" RETURN, AND 6" DIAMETER EXHAUST DUCT UP TO ROOF LEVEL. REFER TO MH-102, ROOF HVAC PLAN, FOR CONTINUATION.
  - M201 18" SUPPLY AND RETURN DUCT UP TO ROOF LEVEL. REFER TO MH-102, ROOF HVAC PLAN, FOR CONTINUATION.
  - M202 16" EXHAUST DUCT UP TO ROOF LEVEL. REFER TO MH-102, ROOF HVAC PLAN, FOR CONTINUATION.
  - M203 18" SUPPLY AND 12" RETURN DUCT UP TO ROOF LEVEL. REFER TO MH-102, ROOF HVAC PLAN, FOR CONTINUATION.
  - M204 PROVIDE SPLIT CAN FOR RETURN GRILLE WITH 12" FOR RETURN AND 6" FOR EXHAUST. BALANCE RETURN TO VALUE AS PER DIFFUSER DESIGNATION. BALANCE EXHAUST VIA AMERICAN ALDES MR ADJUSTABLE CONSTANT AIRFLOW REGULATOR TO VALUE IN ASHRAE ROOM REQUIREMENTS SCHEDULE. SHEET MJ-502.
  - M205 12" EXHAUST DUCT UP TO ROOF LEVEL. REFER TO MH-102, ROOF HVAC PLAN, FOR CONTINUATION.
  - M206 14" EXHAUST DUCT UP TO ROOF LEVEL. REFER TO MH-102, ROOF HVAC PLAN, FOR CONTINUATION.
  - M207 BALANCE EXHAUST TO 50 CFM.
  - M208 10" EXHAUST DUCT UP TO ROOF LEVEL. REFER TO MH-102, ROOF HVAC PLAN, FOR CONTINUATION.
  - M209 8" DIAMETER EXHAUST DUCT UP TO ROOF LEVEL. REFER TO MH-102, ROOF HVAC PLAN, FOR CONTINUATION.
  - M210 20" EXHAUST DUCT UP TO ROOF LEVEL. REFER TO MH-102, ROOF HVAC PLAN, FOR CONTINUATION.
  - M211 8" PRIMARY AIR UP TO ROOF LEVEL. REFER TO MH-102, ROOF HVAC PLAN, FOR CONTINUATION. COORDINATE LOCATION OF DUCT WITH EXISTING OUTSIDE AIR DUCT.
  - M212 18" SUPPLY DUCT UP TO ROOF LEVEL. REFER TO MH-102, ROOF HVAC PLAN, FOR CONTINUATION.
  - M213 24" SUPPLY DUCT UP TO ROOF LEVEL. REFER TO MH-102, ROOF HVAC PLAN, FOR CONTINUATION.
  - M214 SPACE WITHIN ROOM AND DOOR SIZE IS LIMITED. AIR HANDLING UNIT MAY NEED TO BE DISASSEMBLED AND REASSEMBLED TO INSTALL WITHIN CONFINED ROOM.
  - M215 CONNECT NEW 48" OUTSIDE AIR DUCT TO EXISTING WITHIN THIS AREA.

1 1ST LEVEL HVAC REMODEL PLAN  
1/8" = 1'-0"

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 one inch = one foot  
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 one quarter inch = one foot  
 one eighth inch = one foot  
 one sixteenth inch = one foot

**CONSULTANTS**

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**ARCHITECT OF RECORD**

A/E:  
**STONE GROUP ARCHITECTS**

**STAMP**

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

Drawing Title  
**1ST LEVEL HVAC REMODEL PLAN**

Approved:

Phase  
**CONSTRUCTION DOCUMENTS**

FULLY SPRINKLERED

Project Title  
**VA FM UPGRADE MENTAL HEALTH LOCK WARD**

Location  
**FORT MEADE, SOUTH DAKOTA**

Issue Date  
 08/26/2022

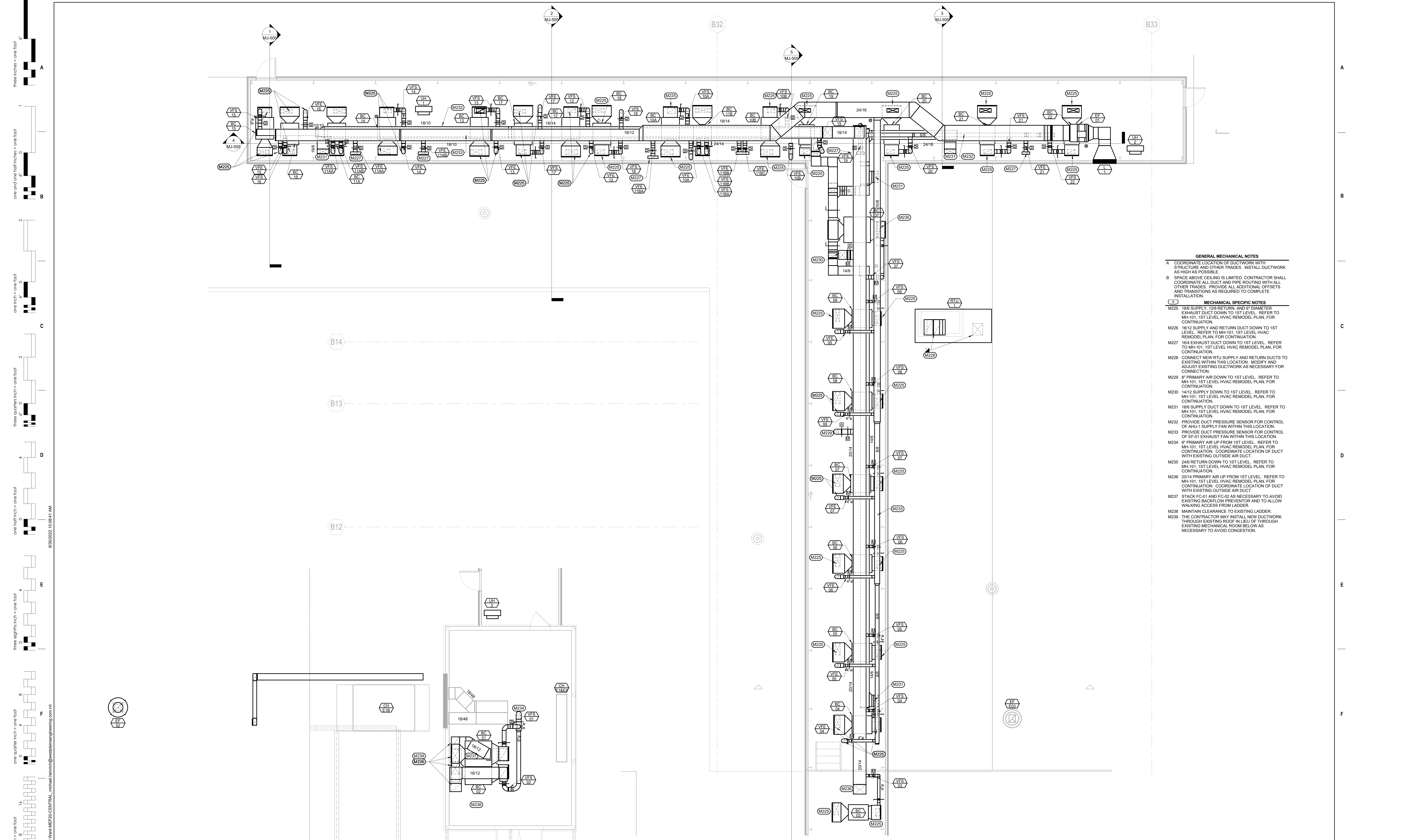
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Drawn  
 MMM/KJH

Project Number  
 VA #568-20-102  
 SGA #211937

Building Number  
 #148

Drawing Number  
**MH-101**



- GENERAL MECHANICAL NOTES**
- A COORDINATE LOCATION OF DUCTWORK WITH STRUCTURE AND OTHER TRADES. INSTALL DUCTWORK AS HIGH AS POSSIBLE.
  - B SPACE ABOVE CEILING IS LIMITED. CONTRACTOR SHALL COORDINATE ALL DUCT AND PIPE ROUTING WITH ALL OTHER TRADES. PROVIDE ALL ADDITIONAL OFFSETS AND TRANSITIONS AS REQUIRED TO COMPLETE INSTALLATION.
- MECHANICAL SPECIFIC NOTES**
- M225 18/6 SUPPLY, 12/6 RETURN, AND 6\"/>

1 ROOF HVAC PLAN - SOUTH  
1/4" = 1'-0"

2 ROOF HVAC PLAN  
1/4" = 1'-0"

Revision#	Description	Date:

**CONSULTANTS**

**MECHANICAL / ELECTRICAL / PLUMBING:**  
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**ARCHITECT OF RECORD**

A/E:

**STONE GROUP ARCHITECTS**

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REGISTERED PROFESSIONAL ENGINEER  
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 SOUTH DAKOTA  
 8452

**Office of Construction and Facilities Management**

VA U.S. Department of Veterans Affairs

Drawing Title  
**ROOF HVAC PLAN**

Approved:

Phase  
**CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**VA FM UPGRADE MENTAL HEALTH LOCK WARD**

Location  
**FORT MEADE, SOUTH DAKOTA**

Issue Date  
**08/26/2022**

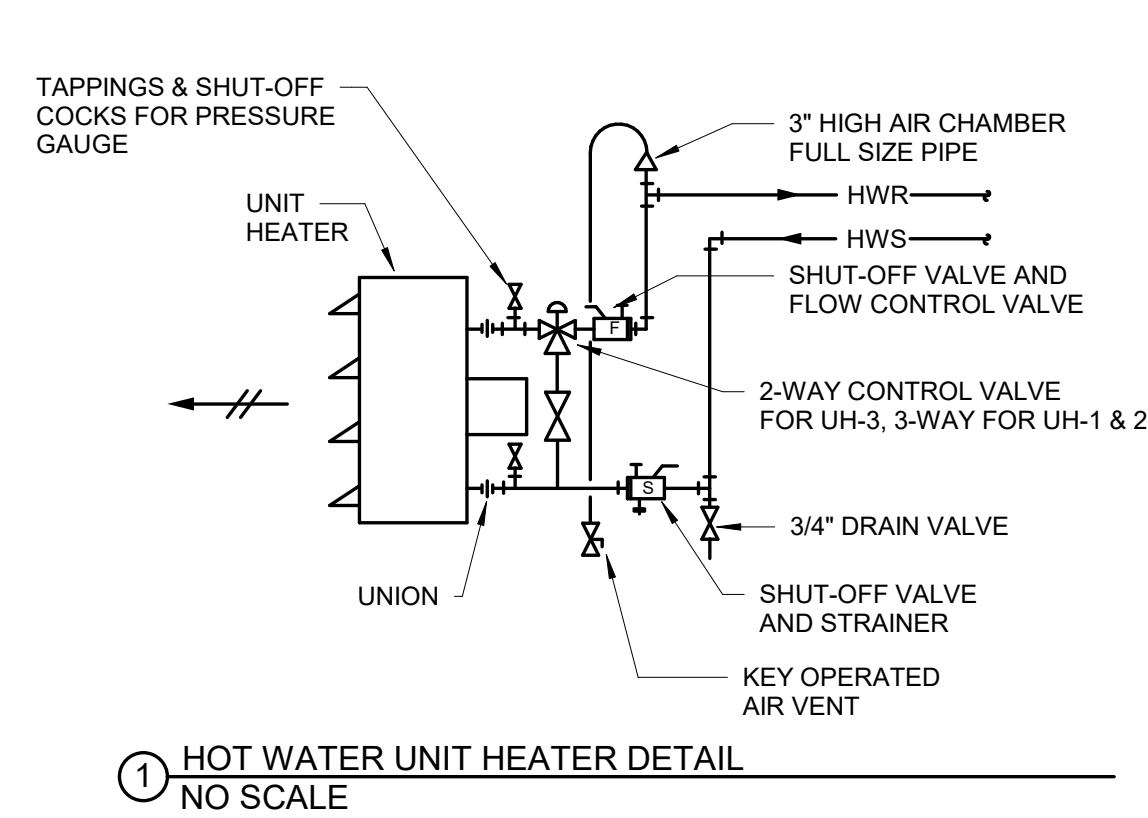
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Drawn  
**MMM/KJH**

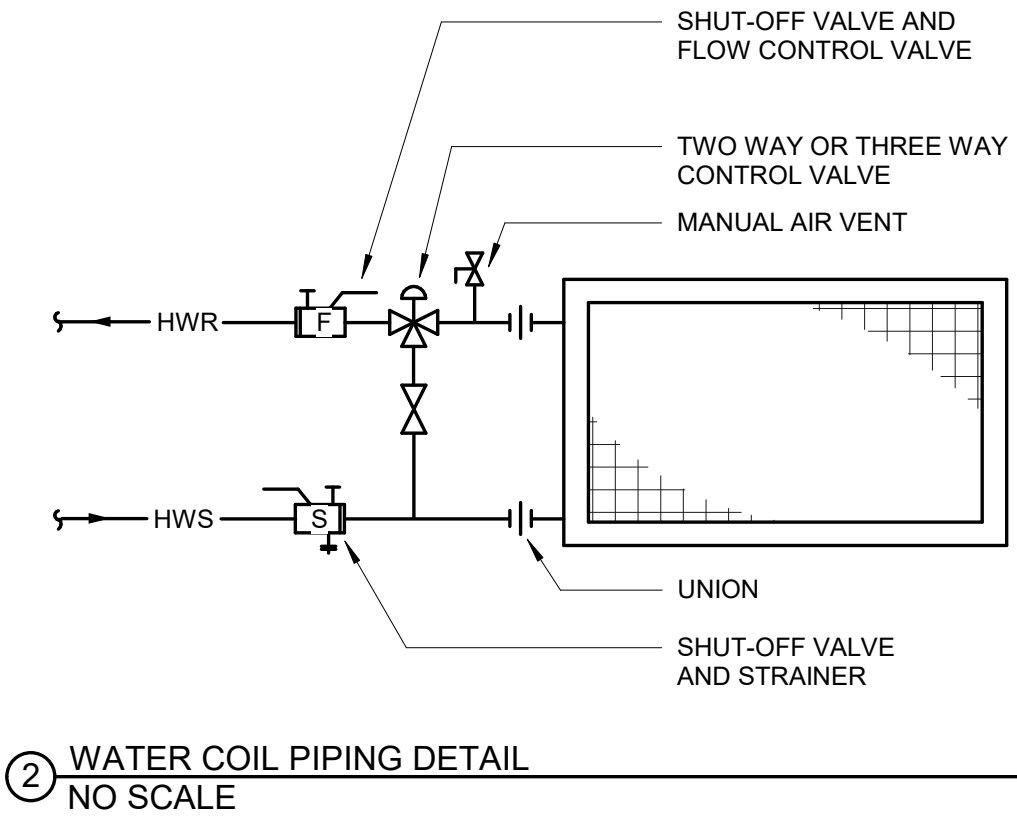
Project Number  
**VA #68-20-102 SGA #211937**

Building Number  
**#148**

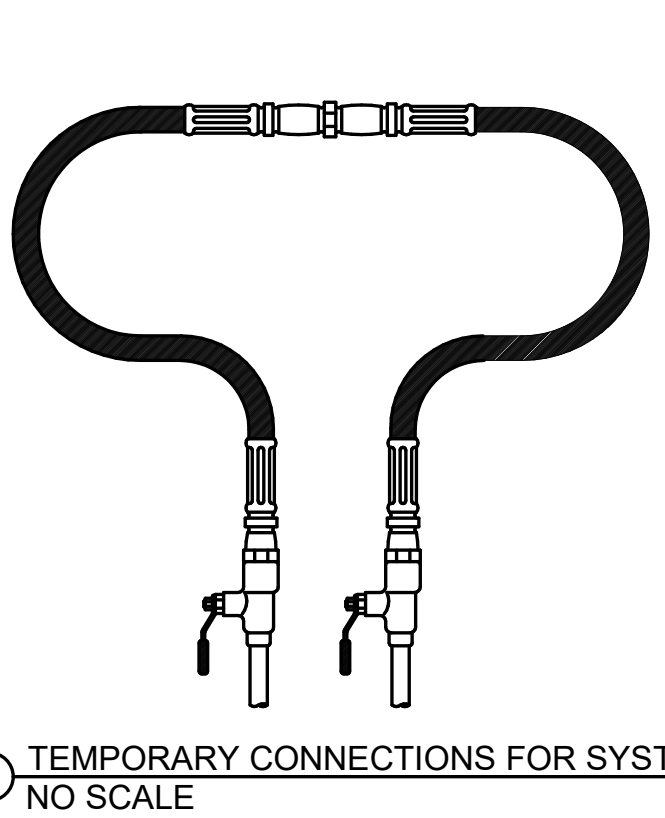
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**MH-102**



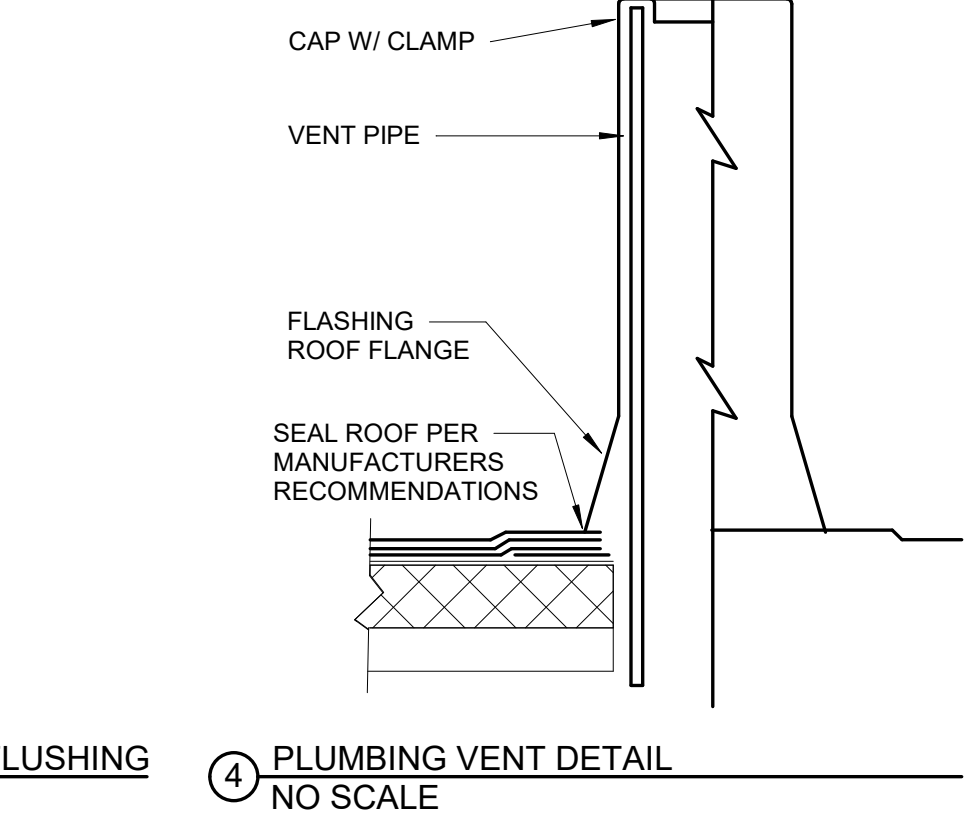
1 HOT WATER UNIT HEATER DETAIL  
NO SCALE



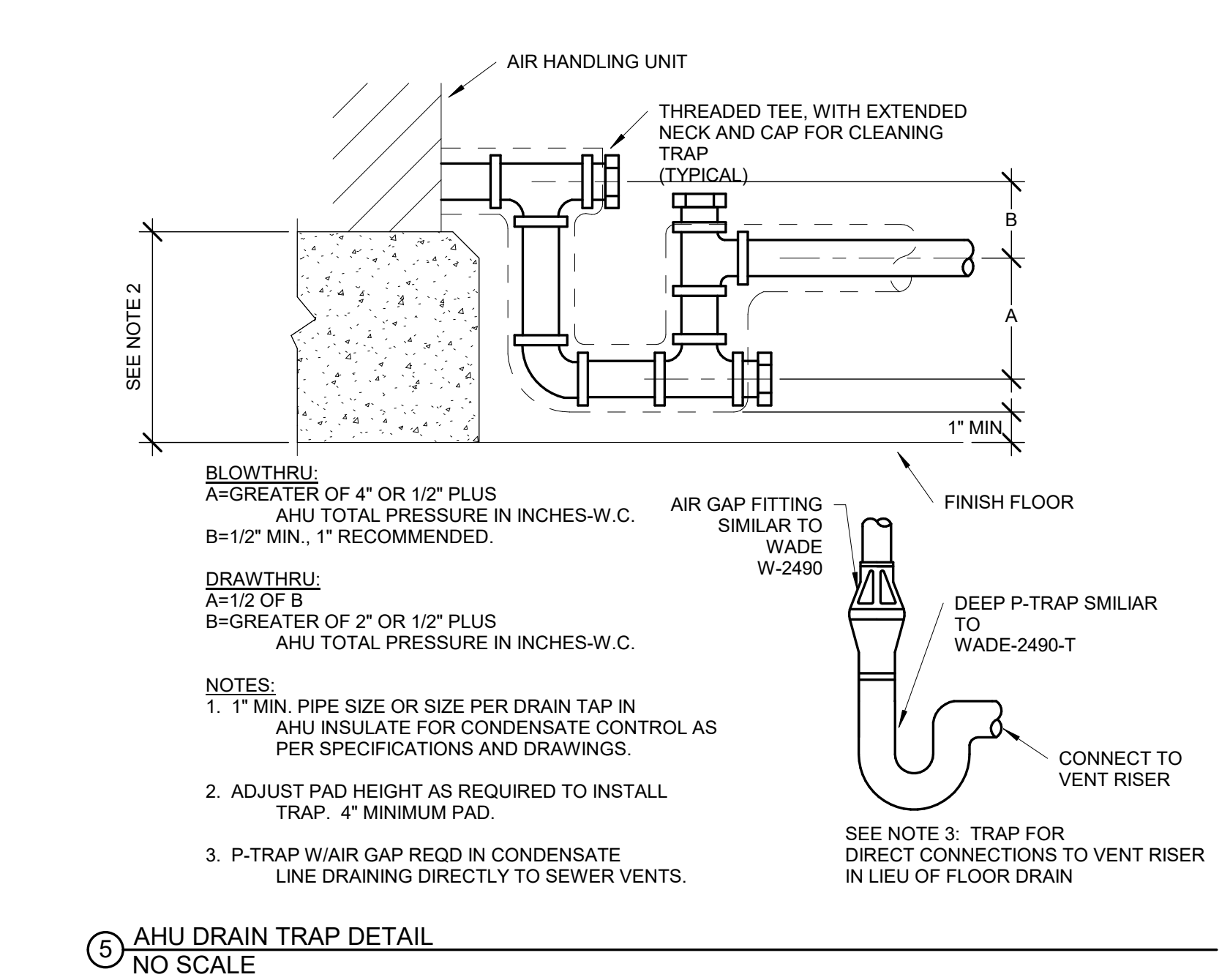
2 WATER COIL PIPING DETAIL  
NO SCALE



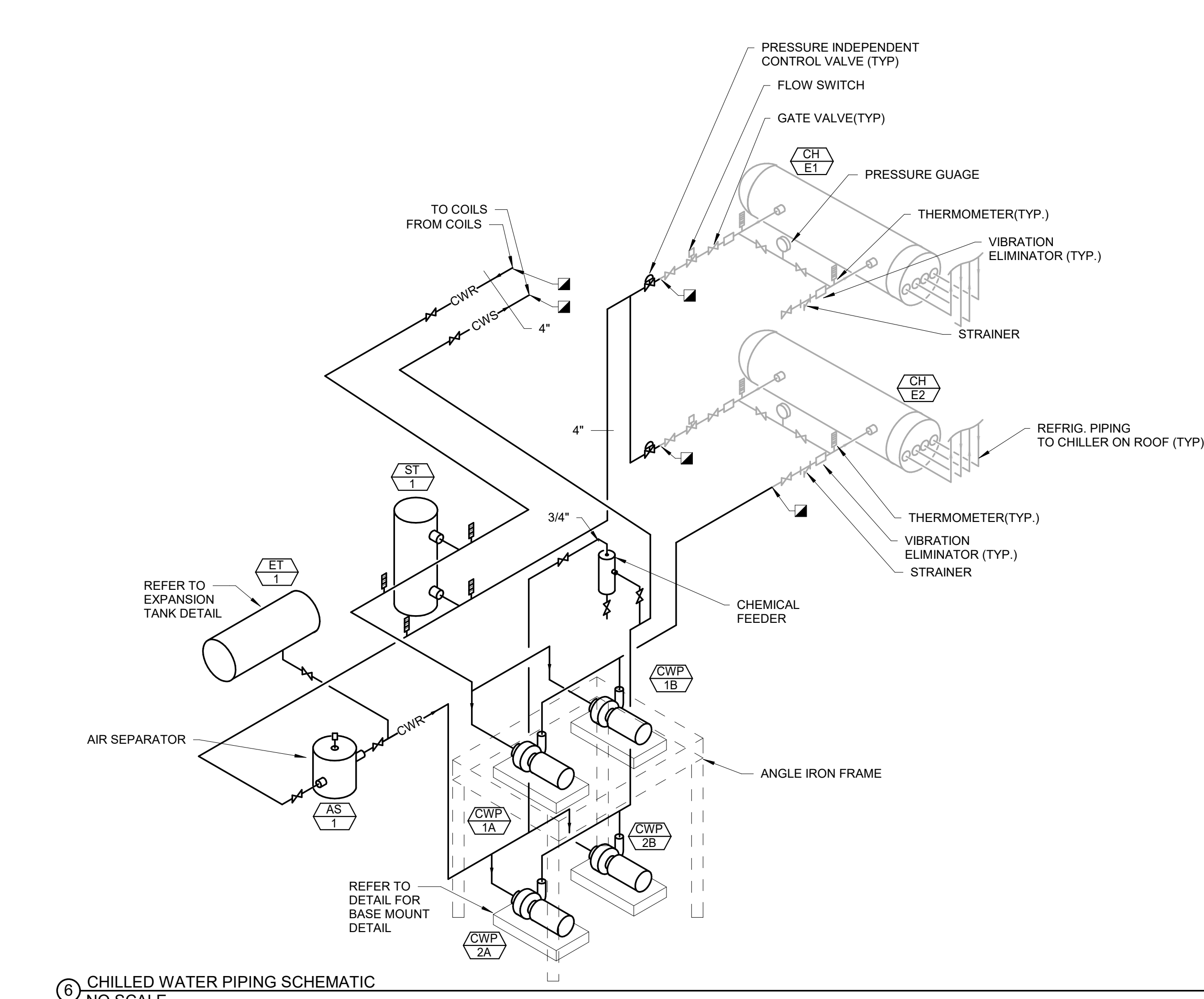
3 TEMPORARY CONNECTIONS FOR SYSTEM FLUSHING  
NO SCALE



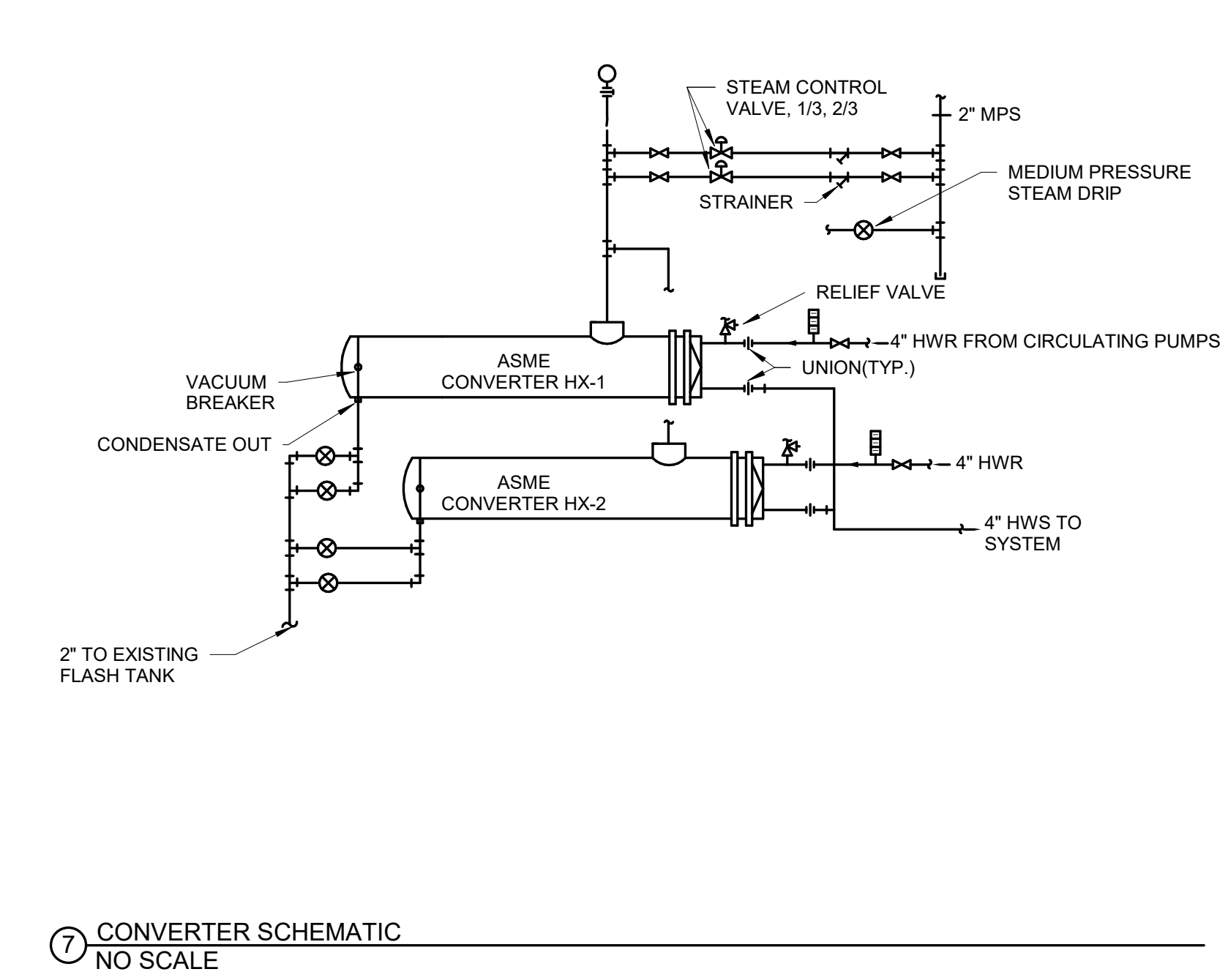
4 PLUMBING VENT DETAIL  
NO SCALE



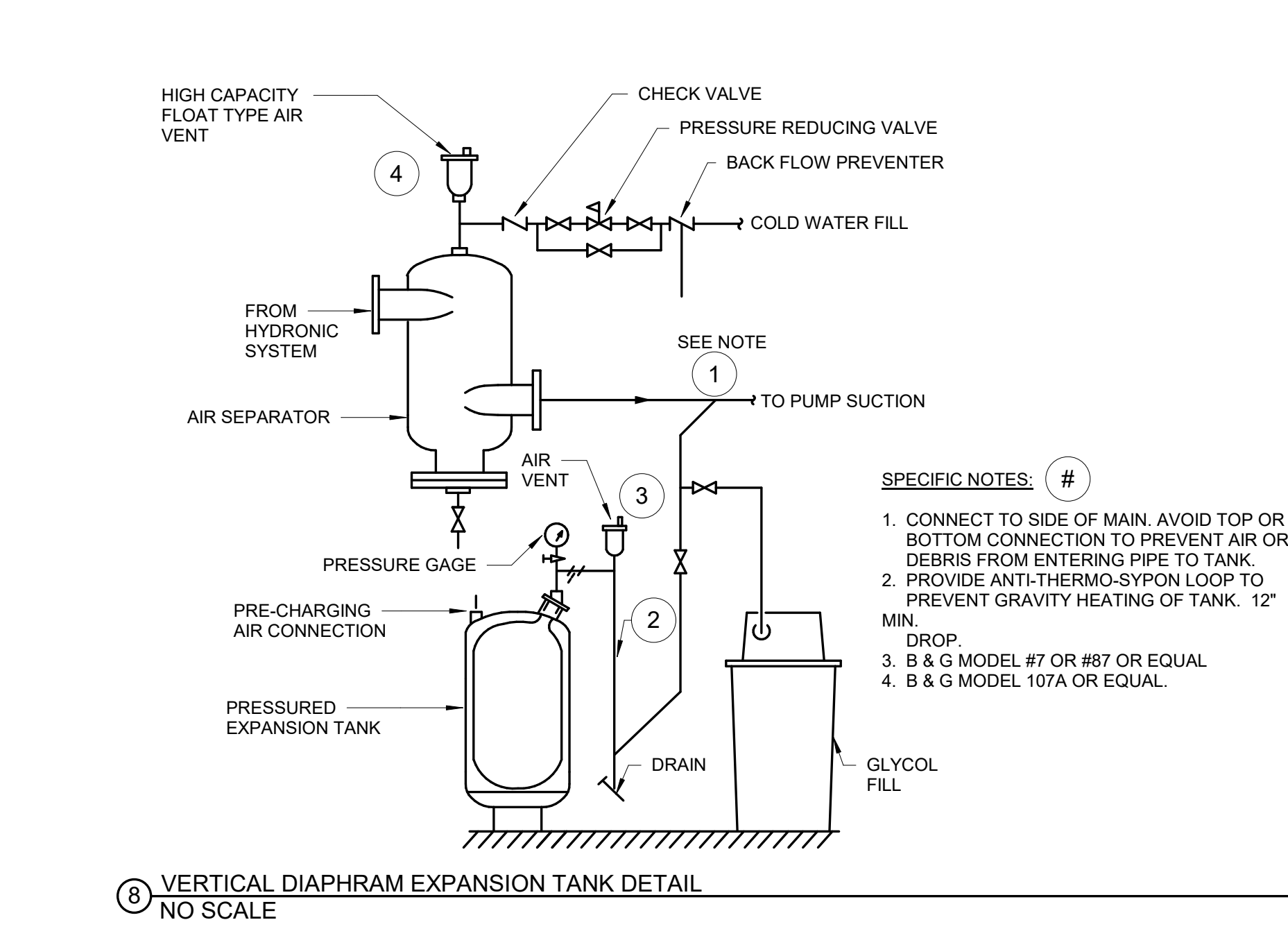
5 AHU DRAIN TRAP DETAIL  
NO SCALE



6 CHILLED WATER PIPING SCHEMATIC  
NO SCALE



7 CONVERTER SCHEMATIC  
NO SCALE



8 VERTICAL DIAPHRAM EXPANSION TANK DETAIL  
NO SCALE

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three inches = one foot  
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**CONSULTANTS**

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**ARCHITECT OF RECORD**

A/E:  
**STONE GROUP ARCHITECTS**

**STAMP**



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

Drawing Title  
**MECHANICAL DETAILS**

Approved:  
**FULLY SPRINKLERED**

Phase  
**CONSTRUCTION DOCUMENTS**

Issue Date: 08/26/2022  
Checked: MSH  
Drawn: MMM/KJH

Project Title  
**VA FM UPGRADE MENTAL HEALTH LOCK WARD**

Location: FORT MEADE, SOUTH DAKOTA

Project Number  
VA #568-20-102  
SGA #211937

Building Number #148  
Drawing Number MJ-501





### ASHRAE ROOM REQUIREMENTS SCHEDULE

HVAC ZONE	ROOM NUMBER	ROOM NAME	PEOPLE	INDOOR TEMP		% RH		CEILING HEIGHT FT	VOLUME CFM	CODE MINIMUM				ROOM			ROOM PRESSURE			ASHRAE VENTILATION				VA HVAC ROOM DATA SHEET				INDIVIDUAL ROOM CONTROL	
				COOLING DEG F	HEATING DEG F	MAX	MIN			AREA SF	OA ACH	TOTAL ACH	OA CFM	TOTAL CFM	SUPPLY CFM	RETURN CFM	EXHAUST CFM	RELATIONSHIP	CONTROL	TABLE	CATEGORY	SUBCATEGORY	CATEGORY	SUBCATEGORY	TEMP	FLOW	COMMENTS		
FC-01 & FC-02	C105	DINING	20	75	70	60	30	1029	9	9268.83	2	6	308.8	925.7	2300	2000	300	NEUTRAL	NIR	7-1	INPATIENT NURSING	NOURISHMENT AREA OR ROOM	MENTAL HEALTH INPATIENT	SL001: SOCIAL ACTIVITIES/DINING/MULTIPURPOSE	YES	1			
FC-01 & FC-02	C106	KITCHEN	0	N/A	N/A	N/A	N/A	41	9	332.9	2	6	30.3	90.9	100	50	NEUTRAL 2X	NIR	7-1	INPATIENT NURSING	TOILET ROOM	MENTAL HEALTH INPATIENT	TLTS2: PATIENT TOILET STANDARD	NO	0				
FC-01 & FC-02	C105B	PATIENT KITCHENETTE	0	75	70	60	30	101	9	908.98	2	6	30.3	90.9	100	50	NIR	NIR	7-1	NIR	NIR	MENTAL HEALTH INPATIENT	IPK01: KITCHENETTE	YES	3				
FC-01 & FC-02	C105	CORRIDOR	0	75	70	60	30	112	9	1094.29	2	4	33.5	67	0	0	NIR	NIR	7-1	NIR	NIR	MENTAL HEALTH INPATIENT		YES	2				
FC-01 & FC-02	C103	CLOSET, FIRE SERVICE	0	N/A	N/A	N/A	N/A	23	9	288.97	0	0	0	0	0	0	NIR	NIR	7-1	NIR	NIR	MENTAL HEALTH INPATIENT		YES	0				
FC-03	C104	GYM	4	75	70	60	30	150	9	1351.56	2	6	45.1	135.2	200	150	50	NIR	NIR	7-1	DIAGNOSTIC AND TREATMENT	PHYSICAL THERAPY	MENTAL HEALTH INPATIENT	DAYR1: RECREATION THERAPY ROOM	YES	0			
FC-04	D100	SOCIAL WORKER'S OFFICE	2	75	70	60	30	158	9	1417.66	2	6	47.3	141.8	300	250	50	NEUTRAL	NIR	7-1	INPATIENT NURSING	PATIENT ROOM	MENTAL HEALTH INPATIENT	BRNP2: TWO BED PATIENT ROOM STANDARD	YES	0			
FC-05	D102	PATIENT LAUNDRY	2	75	70	60	30	169	9	1518.48	2	6	50.6	151.8	300	250	50	NEUTRAL	NIR	7-1	INPATIENT NURSING	PATIENT ROOM	MENTAL HEALTH INPATIENT	BRNP2: TWO BED PATIENT ROOM STANDARD	YES	0			
FC-06	D104	NURSE PRACTITIONER'S OFFICE	2	75	70	60	30	156	9	1401.54	2	6	46.7	140.2	300	250	50	NEUTRAL	NIR	7-1	INPATIENT NURSING	PATIENT ROOM	MENTAL HEALTH INPATIENT	BRNP2: TWO BED PATIENT ROOM STANDARD	YES	0			
FC-07	D105	VISITORS	2	75	70	60	30	160	9	1435.76	2	6	47.9	143.6	300	250	50	NEUTRAL	NIR	7-1	INPATIENT NURSING	PATIENT ROOM	MENTAL HEALTH INPATIENT	BRNP2: TWO BED PATIENT ROOM STANDARD	YES	0			
FC-08	D107	NURSE MANAGER'S OFFICE	2	75	70	60	30	166	9	1495.64	2	6	49.9	149.6	300	250	50	NIR	NIR	7-1	INPATIENT NURSING	PATIENT ROOM	MENTAL HEALTH INPATIENT	BRNP2: TWO BED PATIENT ROOM STANDARD	YES	0			
FC-09	D108	EXAM	2	75	70	60	30	139	9	1235.91	2	6	47.6	142.7	300	250	50	NIR	NIR	7-1	INPATIENT NURSING	PATIENT ROOM	MENTAL HEALTH INPATIENT	BRNP2: TWO BED PATIENT ROOM STANDARD	YES	0			
FC-10A & FC-10B	D110	DAYROOM	10	75	70	60	30	429	9	3860.08	2	6	128.7	386	600	200	NEUTRAL	NIR	7-1	INPATIENT NURSING	PATIENT ROOM	MENTAL HEALTH INPATIENT	DAYR1: DAY ROOM	YES	0				
FC-11A	D120	TUB ROOM	0	N/A	68	N/A	N/A	149	9	1344.6	0	10	0	224.1	200	0	240	NEGATIVE 2X	NIR	7-1	NEGATIVE 2X	NIR	MENTAL HEALTH INPATIENT	TLTS2: PATIENT TOILET STANDARD	NO	0			
FC-11A	D121	W RESTROOM	0	N/A	68	N/A	N/A	157	9	1459.77	0	10	0	235	200	0	240	NEGATIVE 2X	NIR	7-1	NEGATIVE 2X	NIR	MENTAL HEALTH INPATIENT	TLTS2: PATIENT TOILET STANDARD	NO	0			
FC-11B	D125	CONGREGATE BATH	0	N/A	68	N/A	N/A	342	9	3077.71	0	10	0	513	400	0	550	NEG	NIR	7-1	NEGATIVE 2X	NIR	MENTAL HEALTH INPATIENT	TLTS2: PATIENT TOILET STANDARD	NO	0			
FC-12	D112	QUIET ROOM	2	75	70	60	30	233	9	2100.15	2	6	70	210	400	300	100	NEUTRAL	NIR	7-1	INPATIENT NURSING	TOILET ROOM	MENTAL HEALTH INPATIENT	BRNP2: TWO BED PATIENT ROOM STANDARD	YES	0			
FC-13	D114	TWO-BED ROOM	2	75	70	60	30	264	9	2377.31	2	6	79.2	237.7	400	300	100	NEUTRAL	NIR	7-1	INPATIENT NURSING	PATIENT ROOM	MENTAL HEALTH INPATIENT	BRNP2: TWO BED PATIENT ROOM STANDARD	YES	0			
FC-14	D116	TWO-BED ROOM	2	75	70	60	30	282	9	2589.33	2	6	79.6	239.9	400	300	100	NEUTRAL	NIR	7-1	INPATIENT NURSING	PATIENT ROOM	MENTAL HEALTH INPATIENT	BRNP2: TWO BED PATIENT ROOM STANDARD	YES	0			
FC-15	D118	TWO-BED ROOM	2	75	70	60	30	295	9	2657.65	2	6	88.6	265.8	400	300	100	NEUTRAL	NIR	7-1	INPATIENT NURSING	PATIENT ROOM	MENTAL HEALTH INPATIENT	BRNP2: TWO BED PATIENT ROOM STANDARD	YES	0			
FC-16	D119	TWO-BED ROOM	2	75	70	60	30	291	9	2618.98	2	6	87.3	261.9	400	300	100	NEUTRAL	NIR	7-1	INPATIENT NURSING	PATIENT ROOM	MENTAL HEALTH INPATIENT	BRNP2: TWO BED PATIENT ROOM STANDARD	YES	0			
FC-17	D122	WOMEN'S TIED OBS ROOM	2	75	70	60	30	183	9	1646.84	2	6	54.9	164.7	400	300	100	NEUTRAL	NIR	7-1	INPATIENT NURSING	PATIENT ROOM	MENTAL HEALTH INPATIENT	BRNP2: TWO BED PATIENT ROOM STANDARD	YES	0			
FC-18	D124	ONE-BED ROOM	2	75	70	60	30	191	9	1719.39	2	6	57.3	171.9	400	300	100	NIR	NIR	7-1	INPATIENT NURSING	PATIENT ROOM	MENTAL HEALTH INPATIENT	BRNP2: TWO BED PATIENT ROOM STANDARD	YES	0			
FC-19	D126	ANTEROOM	0	75	70	60	30	58	9	523.68	2	4	17.5	34.9	50	0	0	NEUTRAL	NIR	7-1	INPATIENT NURSING	PATIENT ROOM	MENTAL HEALTH INPATIENT	BRNP6: ANTE ROOM	YES	0			
FC-19	D126A	CLOSE OBSERVATION	1	75	70	60	30	125	9	1121.09	2	6	37.4	112.1	200	175	0	NEUTRAL	NIR	7-1	INPATIENT NURSING	PATIENT ROOM	MENTAL HEALTH INPATIENT	BRNP5: ISOLATION RESTRAINT ROOM / ISOLATION SECLUSION ROOM	YES	0			
FC-19	D126B	TOILET	0	N/A	68	N/A	N/A	79	9	699.03	0	10	0	115.5	0	0	150	NEGATIVE 2X	NIR	7-1	NEGATIVE 2X	NIR	MENTAL HEALTH INPATIENT	TLTS3: PATIENT TOILET STANDARD	NO	0			
FC-20	D127	ANTEROOM	0	75	70	60	30	61	9	548.9	2	4	18.3	36.6	50	0	0	NEUTRAL	NIR	7-1	INPATIENT NURSING	PATIENT ROOM	MENTAL HEALTH INPATIENT	BRNP6: ANTE ROOM	YES	0			
FC-20	D127A	CLOSE OBSERVATION	1	75	70	60	30	125	9	1129.1	2	6	37.6	112.9	200	175	0	NEUTRAL	NIR	7-1	INPATIENT NURSING	PATIENT ROOM	MENTAL HEALTH INPATIENT	BRNP5: ISOLATION RESTRAINT ROOM / ISOLATION SECLUSION ROOM	YES	0			
FC-21	D128	ANTEROOM	0	75	70	60	30	51	9	452.9	2	4	17.4	34.9	50	0	0	NEUTRAL	NIR	7-1	INPATIENT NURSING	PATIENT ROOM	MENTAL HEALTH INPATIENT	BRNP6: ANTE ROOM	YES	0			
FC-21	D128A	CLOSE OBSERVATION	1	75	70	60	30	125	9	1129.1	2	6	37.6	112.9	200	175	0	NEUTRAL	NIR	7-1	INPATIENT NURSING	PATIENT ROOM	MENTAL HEALTH INPATIENT	BRNP5: ISOLATION RESTRAINT ROOM / ISOLATION SECLUSION ROOM	YES	0			
FC-22	D128B	TOILET	0	N/A	68	N/A	N/A	80	9	724.25	0	10	0	120.7	0	0	150	NEGATIVE 2X	NIR	7-1	NEGATIVE 2X	NIR	MENTAL HEALTH INPATIENT	TLTS3: PATIENT TOILET STANDARD	NO	0			
FC-22	D129	ANTEROOM	0	75	70	60	30	58	9	524.47	2	4	17.5	35	50	0	0	NEUTRAL	NIR	7-1	INPATIENT NURSING	PATIENT ROOM	MENTAL HEALTH INPATIENT	BRNP6: ANTE ROOM	YES	0			
FC-22	D129A	SECLUSION	1	75	70	60	30	125	9	1121.09	2	6	37.4	112.1	200	175	0	NEUTRAL	NIR	7-1	INPATIENT NURSING	PATIENT ROOM	MENTAL HEALTH INPATIENT	BRNP5: ISOLATION RESTRAINT ROOM / ISOLATION SECLUSION ROOM	YES	0			
FC-37	D103	SOILED UTILITY	2	N/A	N/A	N/A	N/A	118	9	1061.59	0	10	0	176.9	0	0	220	NEGATIVE 2X	NIR	7-1	NEGATIVE 2X	NIR	NON PATIENT ROOMS - SUPPORT AREAS	SOILED UTILITY AND STORAGE ROOM	NO	0			
FC-37	D110A	RECREATION SUPPLIES	0	N/A	N/A	N/A	N/A	9	9	77.95	0	0	0	0	0	0	0	NIR	NIR	NIR	NIR	NIR	NIR	NIR	NIR	NIR	NIR		
FC-37	D111	PATIENT LOCKERS	0	N/A	N/A	N/A	N/A	9	9	83.78	0	0	0	0	0	0	0	NIR	NIR	NIR	NIR	NIR	NIR	NIR	NIR	NIR	NIR		
FC-37	D113	LINEN	0	N/A	N/A	N/A	N/A	19	9	172.78	0	0	0	0	0	0	0	NIR	NIR	NIR	NIR	NIR	NIR	NIR	NIR	NIR	NIR		
FC-37	D117	STORAGE	0	N/A	N/A	N/A	N/A	10	9	88.88	0	0	0	0	0	0	0	NIR	NIR	NIR	NIR	NIR	NIR	NIR	NIR	NIR	NIR		
FC-37	D123	GARAGE CART	0	N/A	N/A	N/A	N/A	28	9	250.31	0	0	0	0	0	0	0	NIR	NIR	NIR	NIR	NIR	NIR	NIR	NIR	NIR	NIR		
FC-37	DC100	N-S CORRIDOR	0	75	70	60	30	866	9	8086.61	2	4	169.6	339.1	500	330	0	POSITIVE 1X	NIR	7-1	INPATIENT NURSING	PATIENT CORRIDOR	NON PATIENT ROOMS - SUPPORT AREAS	CORRIDORS	YES	0			
FC-37	DC101	E-W CORRIDOR	0	75	70	60	30	1047	9	9425.75	2	4	314.2	628.4	700	380	0	POSITIVE 1X	NIR	7-1	INPATIENT NURSING	PATIENT CORRIDOR	NON PATIENT ROOMS - SUPPORT AREAS	CORRIDORS	YES	0			
N/A	D130	EQUIPMENT	0	N/A	N/A	N/A	N/A	210	9	1889.35	0	0	0	0	0	0	0	0	POSITIVE 1X	NIR	7-1	POSITIVE 1X	NIR	NON PATIENT ROOMS - SUPPORT AREAS	CLEAN UTILITY/STORAGE ROOM	NO	0		
N/A	DC101A	VESTIBULE	0	N/A	N/A	N/A	N/A	49	9	442.12	0	0	0	0	0	0	0	0	POSITIVE 1X	NIR	7-1	POSITIVE 1X	NIR	NON PATIENT ROOMS - SUPPORT AREAS	LOUNGE	YES	0		
RTU-1	D108	REPORT / CONFERENCE ROOM	0	75	70	60	30	264	9	2372.12	2	4	79.1	158.1	750	750	0	NEGATIVE 1X	NIR	7-1	NEGATIVE 1X	NIR	NON PATIENT ROOMS - SUPPORT AREAS	LOUNGE	YES	0			
RTU-1	D108A	TOILET STAFF	0	75	70	60	30	45	9	402.93	0	10	0	67.9	0	0	0	NEGATIVE 2X	NIR	7-1	INPATIENT NURSING	PATIENT ROOM	MENTAL HEALTH INPATIENT	TLTS2: PATIENT TOILET STANDARD	NO	0			
RTU-1	D108B	TOILET STAFF	0	N/A	68	N/A	N/A	45	9	407.53	0	10	0	67.9	0	0	0	NEGATIVE 2X	NIR	7-1	INPATIENT NURSING	TOILET ROOM	MENTAL HEALTH INPATIENT	TLTS2: PATIENT TOILET STANDARD	NO	0			
RTU-1	D109	NURSE STATION	4	75	70	60	30	361	9	3248.41	2	4	108.2	216.4	300	300	0	NEUTRAL	NIR	7-1	INPATIENT NURSING	PATIENT ROOM	MENTAL HEALTH INPATIENT	NST1: NURSING STATION	YES	0			
RTU-1	D109A	MEDICATION	2	75	70	60	30	114	9	1028.37	2	4	34.2	68.4	125	125	0	NEUTRAL	NIR	7-1	INPATIENT NURSING								

### UNIT HEATER SCHEDULE

UNIT TYPE	UNIT NUMBER	MANUFACTURER	MODEL	LOCATION	CFM	HEATING						MOTOR			COMMENTS		
						BTU/H OUTPUT	GPM	EWT	LWT	WPD	EAT	% GLYCOL	HP	RPM		VOLTAGE	PHASES
UH	1	TRANE	S-204	PENTHOUSE	2900	62600	8.8	140 F	110 F	0.32 RH2O	70 F	30	0.33 hp	1140	120	1	1
UH	2	TRANE	S-204	PENTHOUSE	2900	62600	8.8	140 F	110 F	0.32 RH2O	70 F	30	0.33 hp	1140	120	1	1
UH	3	TRANE	S-204	PENTHOUSE	2900	62600	8.8	140 F	110 F	0.32 RH2O	70 F	30	0.33 hp	1140	120	1	1

COMMENTS:  
1 SELECTED AT 3200 FT ELEVATION.

### LOUVER SCHEDULE

UNIT TYPE	UNIT NUMBER	MANUFACTURER	MODEL	LOCATION	FUNCTION	SIZE		CFM	S.P.	FREE AIR VELOCITY	COMMENTS
						WIDTH	HEIGHT				
L	1	RUSKIN	ELF6375DX	PENTHOUSE	EXHAUST	36"	24"	2530	0.10 in-wg	870 FPM	1,2,3

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

### VOLUME FLOW LIMITER SCHEDULE

UNIT TYPE	UNIT NUMBER	MANUFACTURER	MODEL	SIZE	INLET DUCT SIZE	CFM	CFM MAXIMUM	CFM MINIMUM	COMMENTS
VFE	05	RUSKIN	ABD	4	4 in	50	125	30	
VFE	06	RUSKIN	ABD	4	4 in	50	125	30	
VFE	07	RUSKIN	ABD	4	4 in	50	125	30	
VFE	08	RUSKIN	ABD	4	4 in	50	125	30	
VFE	09	RUSKIN	ABD	4	4 in	50	125	30	
VFE	10A	RUSKIN	ABD	6	6 in	100	240	60	
VFE	10B	RUSKIN	ABD	6	6 in	100	240	60	
VFE	11AA	RUSKIN	ABD	6	6 in	240	240	60	
VFE	11AB	RUSKIN	ABD	6	6 in	240	240	60	
VFE	11BA	RUSKIN	ABD	6	6 in	200	240	60	
VFE	11BB	RUSKIN	ABD	6	6 in	175	240	60	
VFE	11BC	RUSKIN	ABD	6	6 in	175	240	60	
VFE	12	RUSKIN	ABD	6	6 in	100	240	60	
VFE	13	RUSKIN	ABD	6	6 in	100	240	60	
VFE	14	RUSKIN	ABD	6	6 in	100	240	60	
VFE	15	RUSKIN	ABD	6	6 in	100	240	60	
VFE	16	RUSKIN	ABD	6	6 in	100	240	60	
VFE	17	RUSKIN	ABD	6	6 in	100	240	60	
VFE	18	RUSKIN	ABD	6	6 in	100	240	60	
VFE	19	RUSKIN	ABD	6	6 in	150	240	60	
VFE	21	RUSKIN	ABD	6	6 in	150	240	60	
VFS	01	RUSKIN	ABD	6	6 in	220	240	60	
VFS	02	RUSKIN	ABD	6	6 in	205	240	60	
VFS	03	RUSKIN	ABD	4	4 in	50	125	30	
VFS	04	RUSKIN	ABD	4	4 in	50	125	30	
VFS	05	RUSKIN	ABD	4	4 in	50	125	30	
VFS	06	RUSKIN	ABD	4	4 in	50	125	30	
VFS	07	RUSKIN	ABD	4	4 in	50	125	30	
VFS	08	RUSKIN	ABD	4	4 in	50	125	30	
VFS	09	RUSKIN	ABD	4	4 in	50	125	30	
VFS	10A	RUSKIN	ABD	6	6 in	100	240	60	
VFS	10B	RUSKIN	ABD	6	6 in	100	240	60	
VFS	11AA	RUSKIN	ABD	6	6 in	200	240	60	
VFS	11AB	RUSKIN	ABD	6	6 in	200	240	60	
VFS	11BA	RUSKIN	ABD	6	6 in	200	240	60	
VFS	11BB	RUSKIN	ABD	6	6 in	200	240	60	
VFS	12	RUSKIN	ABD	6	6 in	100	240	60	
VFS	13	RUSKIN	ABD	6	6 in	100	240	60	
VFS	14	RUSKIN	ABD	6	6 in	100	240	60	
VFS	15	RUSKIN	ABD	6	6 in	100	240	60	
VFS	16	RUSKIN	ABD	6	6 in	100	240	60	
VFS	17	RUSKIN	ABD	6	6 in	100	240	60	
VFS	18	RUSKIN	ABD	6	6 in	100	240	60	
VFS	19	RUSKIN	ABD	6	6 in	75	240	60	
VFS	20	RUSKIN	ABD	6	6 in	75	240	60	
VFS	21	RUSKIN	ABD	6	6 in	75	240	60	
VFS	22	RUSKIN	ABD	6	6 in	75	240	60	
VFS	37	RUSKIN	ABD	6	6 in	230	240	60	

COMMENTS:  
1 EACH VOLUME FLOW LIMITER TO BE PROVIDED WITH MOTORIZED DAMPER (BY TEMPERATURE CONTROL).

### PUMP SCHEDULE

UNIT TYPE	UNIT NUMBER	MANUFACTURER	MODEL	SERVICE	GPM	HEAD	IMPELLER SIZE	% GLYCOL	HP	VOLTAGE	PHASES	RPM	COMMENTS
CWP	1B	ARMSTRONG	4280 4X3X6	CHILLED WATER	240	30 RH2O	6.06	30	3	208	3	1750	1,2,3,4,5
CWP	2A	ARMSTRONG	4030 3X2X10	CHILLED WATER	250	70 RH2O	9.02	30	7.5	208	3	1750	1,2,3,4,5
CWP	2B	ARMSTRONG	4030 3X2X10	CHILLED WATER	250	70 RH2O	9.02	30	7.5	208	3	1750	1,2,3,4,5
HWP	1	ARMSTRONG	3X2 5X8	HEATING WATER	185	50 RH2O	7.52	30	5	208	3	1750	1,2,3,4,5
HWP	2	ARMSTRONG	3X2 5X8	HEATING WATER	185	50 RH2O	7.52	30	5	208	3	1750	1,2,3,4,5

COMMENTS:  
1 PROVIDE WITH SHAFT GROUNDING KITS.  
2 NON-OVERLOADING, PREMIUM EFFICIENCY MOTOR.  
3 MOTOR-RATED PER NEMA MG-1, PART 31 FOR INVERTER DUTY.  
4 PROVIDE STRUCTURAL/INERTIAL BSE FOR ALL BASE-MOUNTED PUMPS.  
5 VFD BY TEMPERATURE CONTROL CONTRACTOR.

### EXPANSION TANK SCHEDULE

UNIT TYPE	UNIT NUMBER	MANUFACTURER	MODEL	LOCATION	SERVICE	GALLONS		LENGTH	DIAMETER	COMMENTS
						TOTAL	ACCEPT			
ET	1	WESSELS CO.	NLA 85	MECH MEZZANINE	HEATING WATER	23	23	37	16	1,2,3
ET	2	WESSELS CO.	NLA 200	MECH MEZZANINE	CHILLED WATER	53	53	43	24	1,2,3

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

### RADIANT PANEL SCHEDULE

UNIT TYPE	UNIT NUMBER	MANUFACTURER	MODEL	BTUH	GPM	AVERAGE WATER TEMPERATURE	AIR TEMPERATURE	PANEL LENGTH	PANEL WIDTH	COMMENTS

COMMENTS:  
1 AIR TEMPERATURE OF 70 DEG. F.  
2 30% PROPYLENE GLYCOL - FLOW RATES ARE PER PANEL.

### AIR SEPARATOR SCHEDULE

UNIT TYPE	UNIT NUMBER	MANUFACTURER	MODEL	LOCATION	SERVICE	GPM (MAX)	PRESSURE DROP	COMMENTS
AS	1	B&G ROLAIRTROL	RL-4	CM100	CHILLED WATER	300	1 RH2O	1,2,3

COMMENTS:  
1 PROVIDE NECESSARY REDUCERS FROM LINE SIZE TO AIR SEPARATOR CONNECTIONS.  
2 PROVIDE AUTOMATIC AIRVENT (SEE DETAIL).  
3 PROVIDE WITH STRAINER.

### ROOF TOP UNIT SCHEDULE

UNIT TYPE	UNIT NUMBER	MANUFACTURER	MODEL	LOCATION	CFM	MIN O.A. CFM	E.S.P.	RPM	DX COOLING SECTION						ELECTRICAL			COMMENTS	
									EAT	LAT	CAP	AMB	SCRR	VOLTAGE	PHASES	MCA	DB		WB
RTU	1	TRANE	HORIZON 8036	ROOF	1300	300	1.75 in-wg	1068	79 F	63 F	55 F	53 F	37600	95 F	SCRR	460	3	18 A	1,2,3,4,5,6,7

COMMENTS:  
1 SELECTED AT 3200 FT ELEVATION.  
2 PROVIDE WITH ELECTRIC DISCONNECT.  
3 PROVIDE WITH ECONOMIZER AND RELIEF EXHAUST FAN.  
4 PROVIDE MERV 11 FILTER PRE-FILTER & BETWEEN MERV 8 PRE-FILTER A AND COIL.  
5 PROVIDE WITH MERV 13 FILTER ROOF CURB.  
6 ECM BACKWARD CURVED PLENUM SUPPLY FAN.

### STEAM CONVERTER SCHEDULE

UNIT TYPE	UNIT NUMBER	MANUFACTURER	MODEL	LOCATION	SERVICE	GPM	WATER PRES. DROP	EWT	LWT	MBH	% GLYCOL	#NR STEAM	STEAM PRES.	FOULING FACTOR	AREA (SF)	TRAP CAPACITY	COMMENTS
HX	1	ARMSTRONG	WS-0802-200E-1-CSSSSNN-20	RM CM100	HEATING WATER	185	0.00 RH2O	110 F	140 F	2744	30	3009	50 psi	0.000015	18.2	6018	1,2,3,4
HX	2	ARMSTRONG	WS-0802-200E-1-CSSSSNN-20	RM CM100	HEATING WATER	185	0.00 RH2O	110 F	140 F	2744	30	3009	50 psi	0.000015	18.2	6018	1,2,3,4

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

### TANK SCHEDULE

UNIT TYPE	UNIT NUMBER	MANUFACTURER	MODEL	LOCATION	SERVICE	SIZE		COMMENTS	
						TOTAL GALLONS	LENGTH		DIAMETER
ST	1	WESSELS	CBT-120	RM CM100	CHILLED WATER	120	60	24	1

COMMENTS:  
1 PROVIDE WITH 4" FLANGE CONNECTIONS.

#### CONSULTANTS

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#### ARCHITECT OF RECORD

A/E:  
**STONE GROUP ARCHITECTS**

#### STAMP

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

Drawing Title  
**MECHANICAL SCHEDULES**

Approved:

Phase  
**CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**VA FM UPGRADE MENTAL HEALTH LOCK WARD**

Location  
**FORT MEADE, SOUTH DAKOTA**

Issue Date  
**08/29/2022**

Checked  
Checked

Drawn  
Author

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**MJ-504**

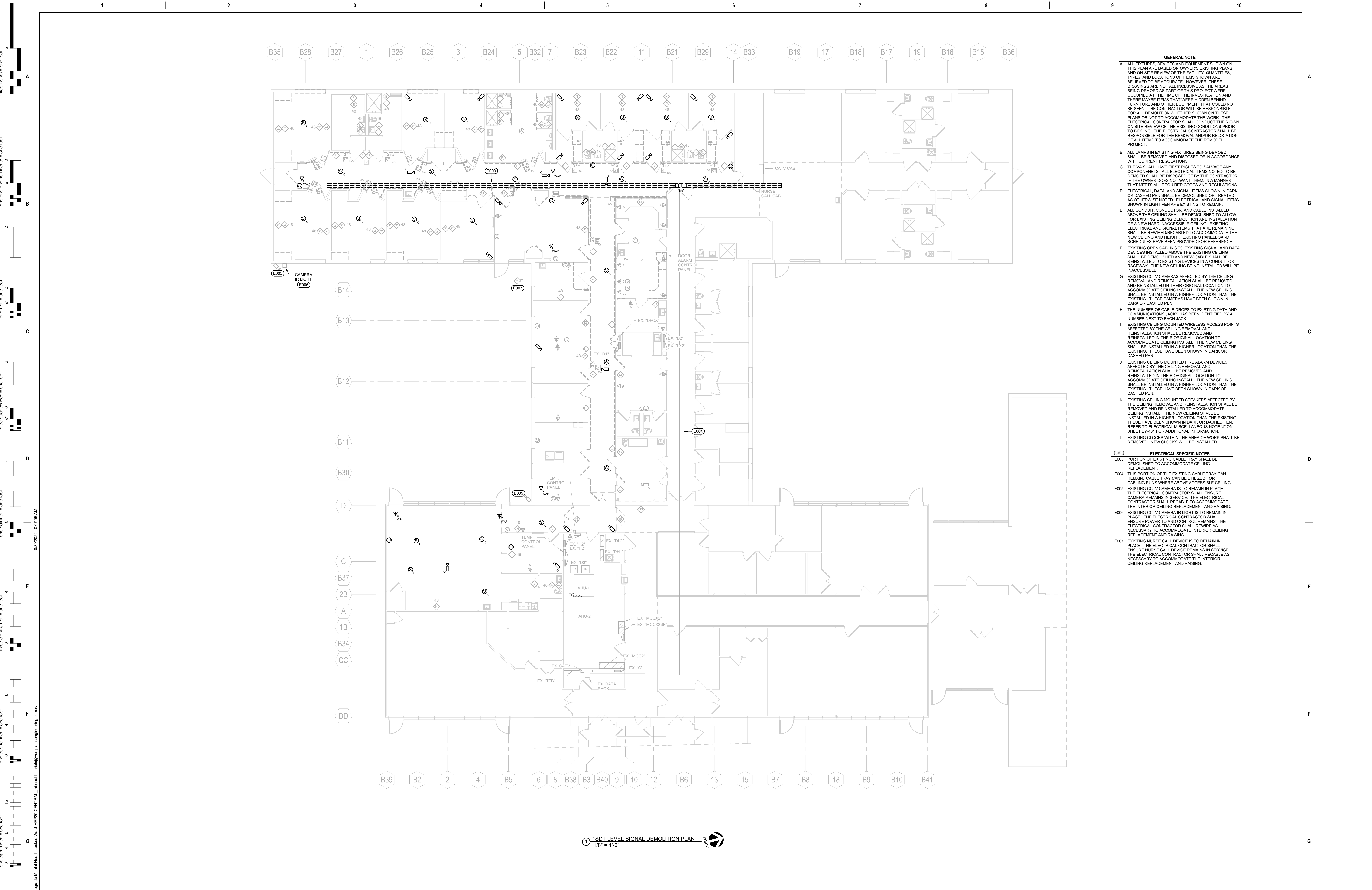
Revision#	Description	Date:
1	ADD#1	10-25-2022











1SDT LEVEL SIGNAL DEMOLITION PLAN  
1/8" = 1'-0"

- GENERAL NOTE**
- 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 DEMOLISHED AS PART OF THIS PROJECT WERE OCCURRED AT THE TIME OF THE INVESTIGATION AND THERE MAYBE ITEMS THAT WERE HIDDEN BEHIND FURNITURE AND OTHER EQUIPMENT THAT COULD NOT BE SEEN. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL DEMOLITION WHETHER SHOWN ON THESE PLANS OR NOT TO ACCOMMODATE THE WORK. THE ELECTRICAL CONTRACTOR SHALL CONDUCT THEIR OWN ON SITE REVIEW OF THE EXISTING CONDITIONS PRIOR TO BIDDING. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND/OR RELOCATION OF ALL ITEMS TO ACCOMMODATE THE REMOVE PROJECT.
  - B ALL LAMPS IN EXISTING FIXTURES BEING DEMOLISHED SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH CURRENT REGULATIONS.
  - C THE VA SHALL HAVE FIRST RIGHTS TO SALVAGE ANY COMPONENTS. ALL ELECTRICAL ITEMS NOTED TO BE DEMOLISHED SHALL BE DISPOSED OF BY THE CONTRACTOR, IF THE OWNER DOES NOT WANT THEM, IN A MANNER THAT MEETS ALL REQUIRED CODES AND REGULATIONS.
  - D ELECTRICAL, DATA, AND SIGNAL ITEMS SHOWN IN DARK OR DASHED PEN SHALL BE DEMOLISHED OR TREATED AS OTHERWISE NOTED. ELECTRICAL AND SIGNAL ITEMS SHOWN IN LIGHT PEN ARE EXISTING TO REMAIN.
  - E ALL CONDUIT, CONDUIT, AND CABLE INSTALLED ABOVE THE CEILING SHALL BE DEMOLISHED TO ALLOW FOR EXISTING CEILING DEMOLITION AND INSTALLATION OF A NEW HARD INACCESSIBLE CEILING. EXISTING ELECTRICAL AND SIGNAL ITEMS THAT ARE REMAINING SHALL BE REWIRING/RECALLED TO ACCOMMODATE THE NEW CEILING AND HEIGHT. EXISTING PANELEBOARD SCHEDULES HAVE BEEN PROVIDED FOR REFERENCE.
  - F EXISTING OPEN CABLING TO EXISTING SIGNAL AND DATA DEVICES INSTALLED ABOVE THE EXISTING CEILING SHALL BE DEMOLISHED AND NEW CABLE SHALL BE REINSTALLED TO EXISTING DEVICES IN A CONDUIT OR RACEWAY. THE NEW CEILING BEING INSTALLED WILL BE INACCESSIBLE.
  - G EXISTING CCTV CAMERAS AFFECTED BY THE CEILING REMOVAL AND REINSTALLATION SHALL BE REMOVED AND REINSTALLED IN THEIR ORIGINAL LOCATION TO ACCOMMODATE CEILING INSTALL. THE NEW CEILING SHALL BE INSTALLED IN A HIGHER LOCATION THAN THE EXISTING. THESE CAMERAS HAVE BEEN SHOWN IN DARK OR DASHED PEN.
  - H THE NUMBER OF CABLE DROPS TO EXISTING DATA AND COMMUNICATIONS JACKS HAS BEEN IDENTIFIED BY A NUMBER NEXT TO EACH JACK.
  - I EXISTING CEILING MOUNTED WIRELESS ACCESS POINTS AFFECTED BY THE CEILING REMOVAL AND REINSTALLATION SHALL BE REMOVED AND REINSTALLED IN THEIR ORIGINAL LOCATION TO ACCOMMODATE CEILING INSTALL. THE NEW CEILING SHALL BE INSTALLED IN A HIGHER LOCATION THAN THE EXISTING. THESE HAVE BEEN SHOWN IN DARK OR DASHED PEN.
  - J EXISTING CEILING MOUNTED FIRE ALARM DEVICES AFFECTED BY THE CEILING REMOVAL AND REINSTALLATION SHALL BE REMOVED AND REINSTALLED IN THEIR ORIGINAL LOCATION TO ACCOMMODATE CEILING INSTALL. THE NEW CEILING SHALL BE INSTALLED IN A HIGHER LOCATION THAN THE EXISTING. THESE HAVE BEEN SHOWN IN DARK OR DASHED PEN.
  - K EXISTING CEILING MOUNTED SPEAKERS AFFECTED BY THE CEILING REMOVAL AND REINSTALLATION SHALL BE REMOVED AND REINSTALLED TO ACCOMMODATE CEILING INSTALL. THE NEW CEILING SHALL BE INSTALLED IN A HIGHER LOCATION THAN THE EXISTING. THESE HAVE BEEN SHOWN IN DARK OR DASHED PEN. REFER TO ELECTRICAL MISCELLANEOUS NOTE "1" ON SHEET EY-401 FOR ADDITIONAL INFORMATION.
  - L EXISTING CLOCKS WITHIN THE AREA OF WORK SHALL BE REMOVED. NEW CLOCKS WILL BE INSTALLED.

- ELECTRICAL SPECIFIC NOTES**
- E003 PORTION OF EXISTING CABLE TRAY SHALL BE DEMOLISHED TO ACCOMMODATE CEILING REPLACEMENT.
  - E004 THIS PORTION OF THE EXISTING CABLE TRAY CAN REMAIN. CABLE TRAY CAN BE UTILIZED FOR CABLING RUNS WHERE ABOVE ACCESSIBLE CEILING.
  - E005 EXISTING CCTV CAMERA IS TO REMAIN IN PLACE. THE ELECTRICAL CONTRACTOR SHALL ENSURE CAMERA REMAINS IN SERVICE. THE ELECTRICAL CONTRACTOR SHALL RECALE TO ACCOMMODATE THE INTERIOR CEILING REPLACEMENT AND RAISING.
  - E006 EXISTING CCTV CAMERA IN LIGHT IS TO REMAIN IN PLACE. THE ELECTRICAL CONTRACTOR SHALL ENSURE POWER TO AND CONTROL REMAINS. THE ELECTRICAL CONTRACTOR SHALL RECALE AS NECESSARY TO ACCOMMODATE INTERIOR CEILING REPLACEMENT AND RAISING.
  - E007 EXISTING NURSE CALL DEVICE IS TO REMAIN IN PLACE. THE ELECTRICAL CONTRACTOR SHALL ENSURE NURSE CALL DEVICE REMAINS IN SERVICE. THE ELECTRICAL CONTRACTOR SHALL RECALE AS NECESSARY TO ACCOMMODATE THE INTERIOR CEILING REPLACEMENT AND RAISING.

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

Revision#	Description	Date:

**CONSULTANTS**

**MECHANICAL / ELECTRICAL / PLUMBING:**  
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**STRUCTURAL:**  
**Albertson Engineering, Inc.**  
 3202 W. Main St. 4C  
 Rapid City, South Dakota 57702  
 Phone: 605-343-9899

**ARCHITECT OF RECORD**

A/E:

**STONE GROUP ARCHITECTS**

**Office of Construction and Facilities Management**

**VA U.S. Department of Veterans Affairs**

**Drawing Title**  
 1ST LEVEL SIGNAL DEMOLITION PLAN

**Approved:**

**Phase**  
 CONSTRUCTION DOCUMENTS

**FULLY SPRINKLERED**

**Project Title**  
 VA FM UPGRADE MENTAL HEALTH LOCK WARD

**Location**  
 FORT MEADE, SOUTH DAKOTA

**Issue Date**  
 08/26/2022

**Checked**  
 MKV

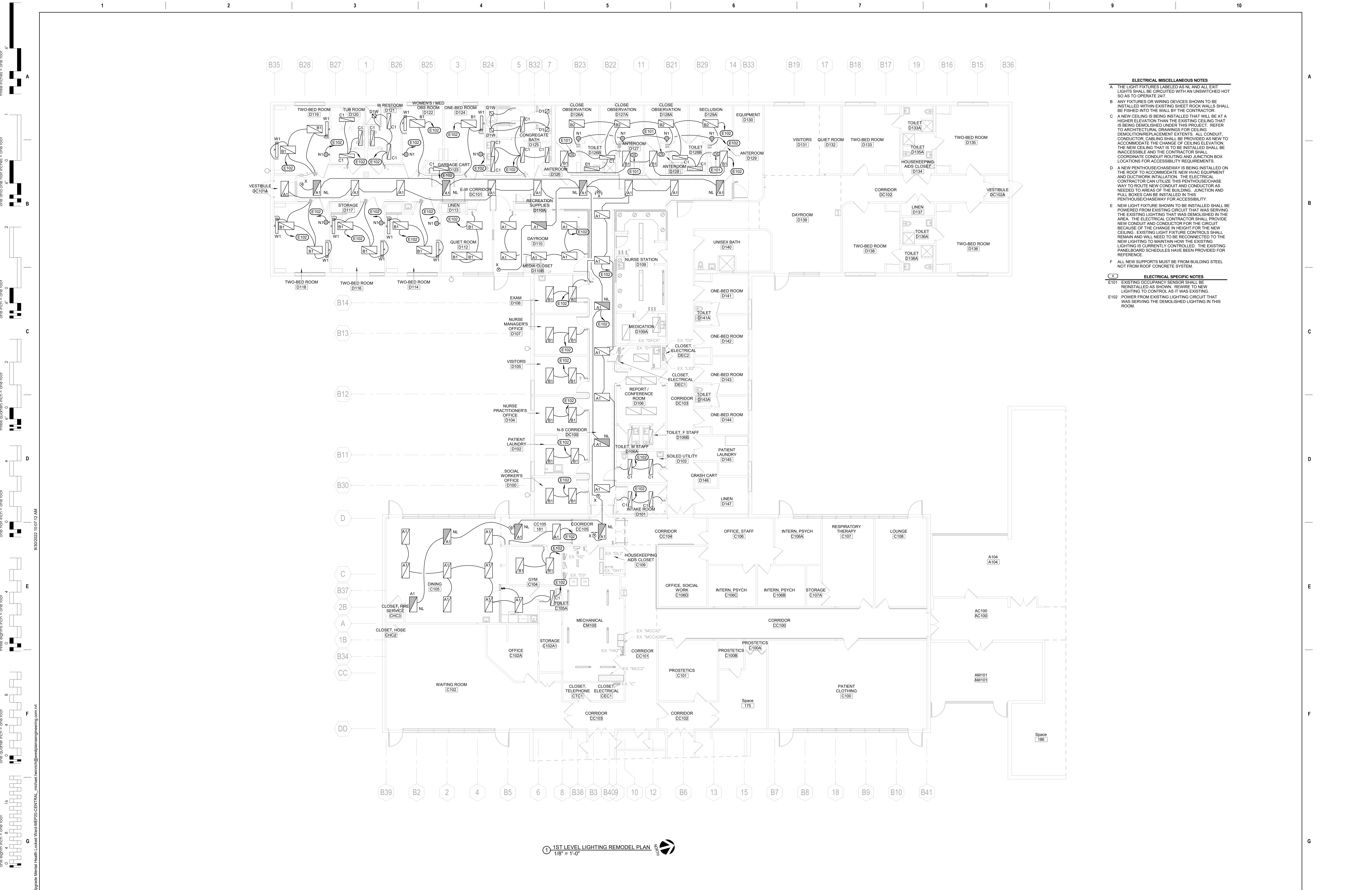
**Drawn**  
 VLS

**Project Number**  
 VA #68-20-102  
 SGA #211937

**Building Number**  
 #148

**Drawing Number**  
 ED-103





1 1ST LEVEL LIGHTING REMODEL PLAN  
1/8" = 1'-0"

- ELECTRICAL MISCELLANEOUS NOTES**
- A THE LIGHT FIXTURES LABELED AS NL AND ALL EXIT LIGHTS SHALL BE CIRCUITED WITH AN UNSWITCHED HOT SO AS TO OPERATE 24/7
  - B ANY FIXTURES OR WIRING DEVICES SHOWN TO BE INSTALLED WITHIN EXISTING SHEET ROCK WALLS SHALL BE FISHERD INTO THE WALL BY THE CONTRACTOR.
  - C A NEW CEILING IS BEING INSTALLED THAT WILL BE AT A HIGHER ELEVATION THAN THE EXISTING CEILING THAT IS BEING DEMOLISHED UNDER THIS PROJECT. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING DEMOLITION/REPLACEMENT EXTENTS. ALL CONDUIT, CONDUCTOR, CABLEING SHALL BE PROVIDED AS NEW TO ACCOMMODATE THE CHANGE OF CEILING ELEVATION. THE NEW CEILING THAT IS TO BE INSTALLED SHALL BE INACCESSIBLE AND THE CONTRACTOR SHALL COORDINATE CONDUIT ROUTING AND JUNCTION BOX LOCATIONS FOR ACCESSIBILITY REQUIREMENTS.
  - D A NEW PENTHOUSECHASEWAY IS BEING INSTALLED ON THE ROOF TO ACCOMMODATE NEW HVAC EQUIPMENT AND DUCTWORK INSTALLATION. THE ELECTRICAL CONTRACTOR CAN UTILIZE THIS PENTHOUSECHASEWAY TO ROUTE NEW CONDUIT AND CONDUCTOR AS NEEDED TO AREAS OF THE BUILDING. JUNCTION AND PULL BOXES CAN BE INSTALLED IN THIS PENTHOUSECHASEWAY FOR ACCESSIBILITY.
  - E NEW LIGHT FIXTURE SHOWN TO BE INSTALLED SHALL BE POWERED FROM EXISTING CIRCUIT THAT WAS SERVING THE EXISTING LIGHTING THAT WAS DEMOLISHED IN THE AREA. THE ELECTRICAL CONTRACTOR SHALL PROVIDE NEW CONDUIT AND CONDUCTOR FOR THE CIRCUIT BECAUSE OF THE CHANGE IN HEIGHT FOR THE NEW CEILING. EXISTING LIGHT FIXTURE CONTROLS SHALL REMAIN AND WILL NEED TO BE RECONNECTED TO THE NEW LIGHTING TO MAINTAIN HOW THE EXISTING LIGHTING IS CURRENTLY CONTROLLED. THE EXISTING PANELBOARD SCHEDULES HAVE BEEN PROVIDED FOR REFERENCE.
  - F ALL NEW SUPPORTS MUST BE FROM BUILDING STEEL NOT FROM ROOF CONCRETE SYSTEM.
- ELECTRICAL SPECIFIC NOTES**
- E101 EXISTING OCCUPANCY SENSOR SHALL BE REINSTALLED AS SHOWN. REWIRE TO NEW LIGHTING TO CONTROL AS IT WAS EXISTING.
  - E102 POWER FROM EXISTING LIGHTING CIRCUIT THAT WAS SERVING THE DEMOLISHED LIGHTING IN THIS ROOM.

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

Revision#	Description	Date:

**CONSULTANTS**

**MECHANICAL / ELECTRICAL / PLUMBING:**  
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 Rapid City, South Dakota 57702  
 Phone: 605-348-7455

**STRUCTURAL:**  
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 Rapid City, South Dakota 57702  
 Phone: 605-343-9959

**ARCHITECT OF RECORD**

A/E:  
**STONE GROUP ARCHITECTS**

**Office of Construction and Facilities Management**

VA U.S. Department of Veterans Affairs

Drawing Title  
**1ST LEVEL LIGHTING REMODEL PLAN**

Approved:

Phase  
**CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**VA FM UPGRADE MENTAL HEALTH LOCK WARD**

Location  
**FORT MEADE, SOUTH DAKOTA**

Issue Date  
 08/26/2022

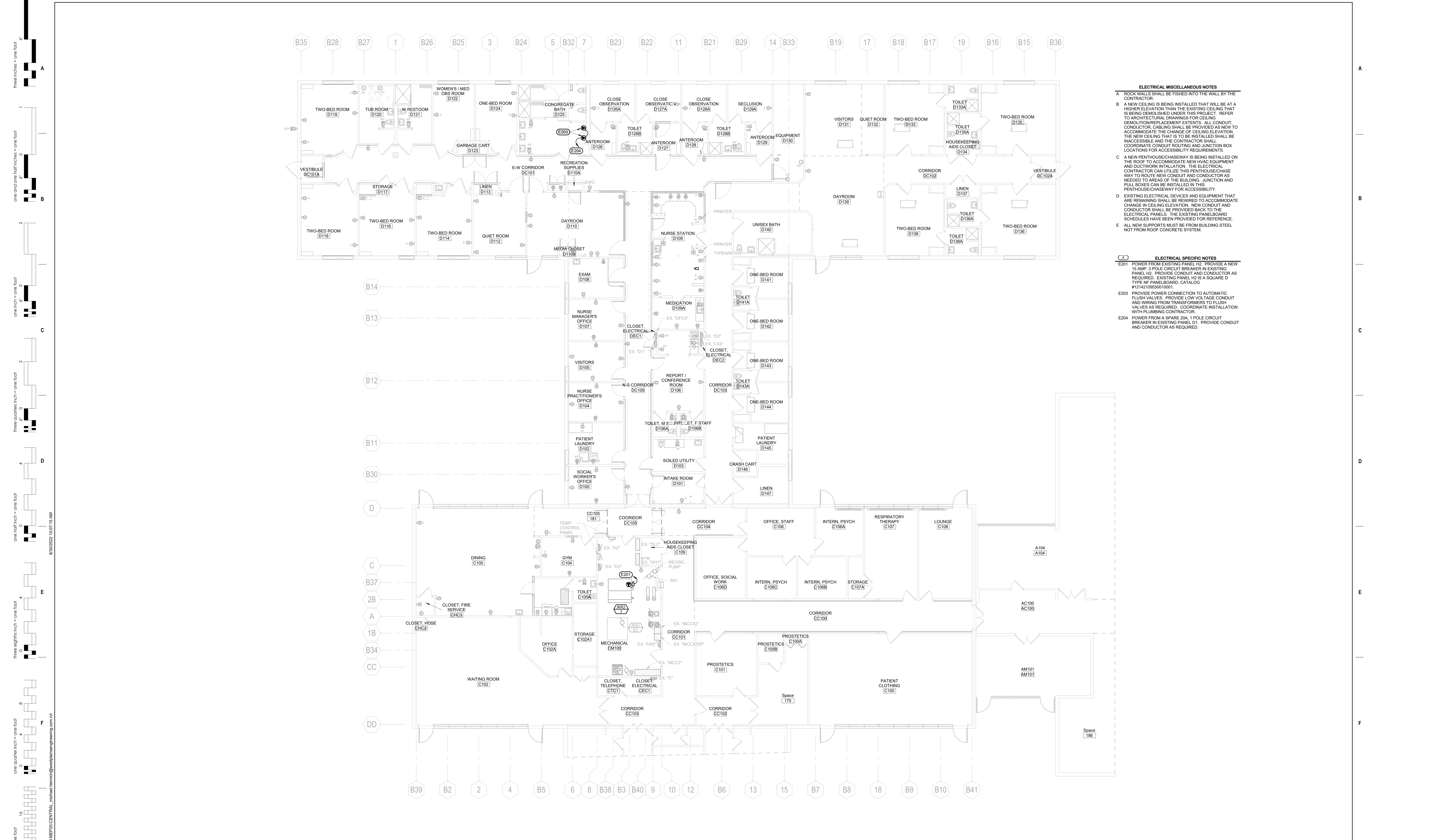
Checked  
 MKV

Drawn  
 VLS

Project Number  
 VA #568-20-102  
 SGA #211937

Building Number  
 #148

Drawing Number  
**EL-201**



- ELECTRICAL MISCELLANEOUS NOTES**
- A ROCK WALLS SHALL BE FISHED INTO THE WALL BY THE CONTRACTOR.
  - B A NEW CEILING IS BEING INSTALLED THAT WILL BE AT A HIGHER ELEVATION THAN THE EXISTING CEILING THAT IS BEING DEMOLISHED UNDER THIS PROJECT. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING DEMOLITION/REPLACEMENT EXTENTS. ALL CONDUIT, CONDUIT CABLEING SHALL BE PROVIDED AS NEW TO ACCOMMODATE THE CHANGE OF CEILING ELEVATION. THE NEW CEILING THAT IS TO BE INSTALLED SHALL BE INACCESSIBLE AND THE CONTRACTOR SHALL COORDINATE CONDUIT ROUTING AND JUNCTION BOX LOCATIONS FOR ACCESSIBILITY REQUIREMENTS.
  - C A NEW PENTHOUSECHASEWAY IS BEING INSTALLED ON THE ROOF TO ACCOMMODATE NEW HVAC EQUIPMENT AND DUCTWORK INSTALLATION. THE ELECTRICAL CONTRACTOR CAN UTILIZE THIS PENTHOUSECHASEWAY TO ROUTE NEW CONDUIT AND CONDUCTOR AS NEEDED TO AREAS OF THE BUILDING. JUNCTION AND PULL BOXES CAN BE INSTALLED IN THIS PENTHOUSECHASEWAY FOR ACCESSIBILITY.
  - D EXISTING ELECTRICAL DEVICES AND EQUIPMENT THAT ARE REMAINING SHALL BE REWIRED TO ACCOMMODATE CHANGE IN CEILING ELEVATION. NEW CONDUIT AND CONDUCTOR SHALL BE PROVIDED BACK TO THE ELECTRICAL PANELS. THE EXISTING PANELBOARD SCHEDULES HAVE BEEN PROVIDED FOR REFERENCE.
  - E ALL NEW SUPPORTS MUST BE FROM BUILDING STEEL NOT FROM ROOF CONCRETE SYSTEM.

- ELECTRICAL SPECIFIC NOTES**
- E201 POWER FROM EXISTING PANEL H2. PROVIDE A NEW 15 AMP, 3 POLE CIRCUIT BREAKER IN EXISTING PANEL H2. PROVIDE CONDUIT AND CONDUCTOR AS REQUIRED. EXISTING PANEL H2 IS A SQUARE D TYPE NF PANELBOARD, CATALOG #12421095001001.
  - E203 PROVIDE POWER CONNECTION TO AUTOMATIC FLUSH VALVES. PROVIDE LOW VOLTAGE CONDUIT AND WIRING FROM TRANSFORMERS TO FLUSH VALVES AS REQUIRED. COORDINATE INSTALLATION WITH PLUMBING CONTRACTOR.
  - E204 POWER FROM A SPARE 20A, 1 POLE CIRCUIT BREAKER IN EXISTING PANEL D1. PROVIDE CONDUIT AND CONDUCTOR AS REQUIRED.

1 1ST LEVEL POWER REMODEL PLAN  
1/8" = 1'-0"

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one eighth inch = one foot  
one quarter inch = one foot  
one half inch = one foot  
three eighths inch = one foot  
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one and one half inches = one foot  
two inches = one foot  
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ninety inches = one foot  
ninety one inches = one foot  
ninety two inches = one foot  
ninety three inches = one foot  
ninety four inches = one foot  
ninety five inches = one foot  
ninety six inches = one foot  
ninety seven inches = one foot  
ninety eight inches = one foot  
ninety nine inches = one foot  
one hundred inches = one foot

**CONSULTANTS**

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

STRUCTURAL:  
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Rapid City, South Dakota 57702  
Phone: 605-343-9959

**ARCHITECT OF RECORD**

A/E:  
**STONE GROUP ARCHITECTS**

**Office of Construction and Facilities Management**

VA U.S. Department of Veterans Affairs

Drawing Title  
**1ST LEVEL POWER REMODEL PLAN**

Approved: \_\_\_\_\_

Phase  
**CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**VA FM UPGRADE MENTAL HEALTH LOCK WARD**

Location  
**FORT MEADE, SOUTH DAKOTA**

Issue Date  
**08/26/2022**

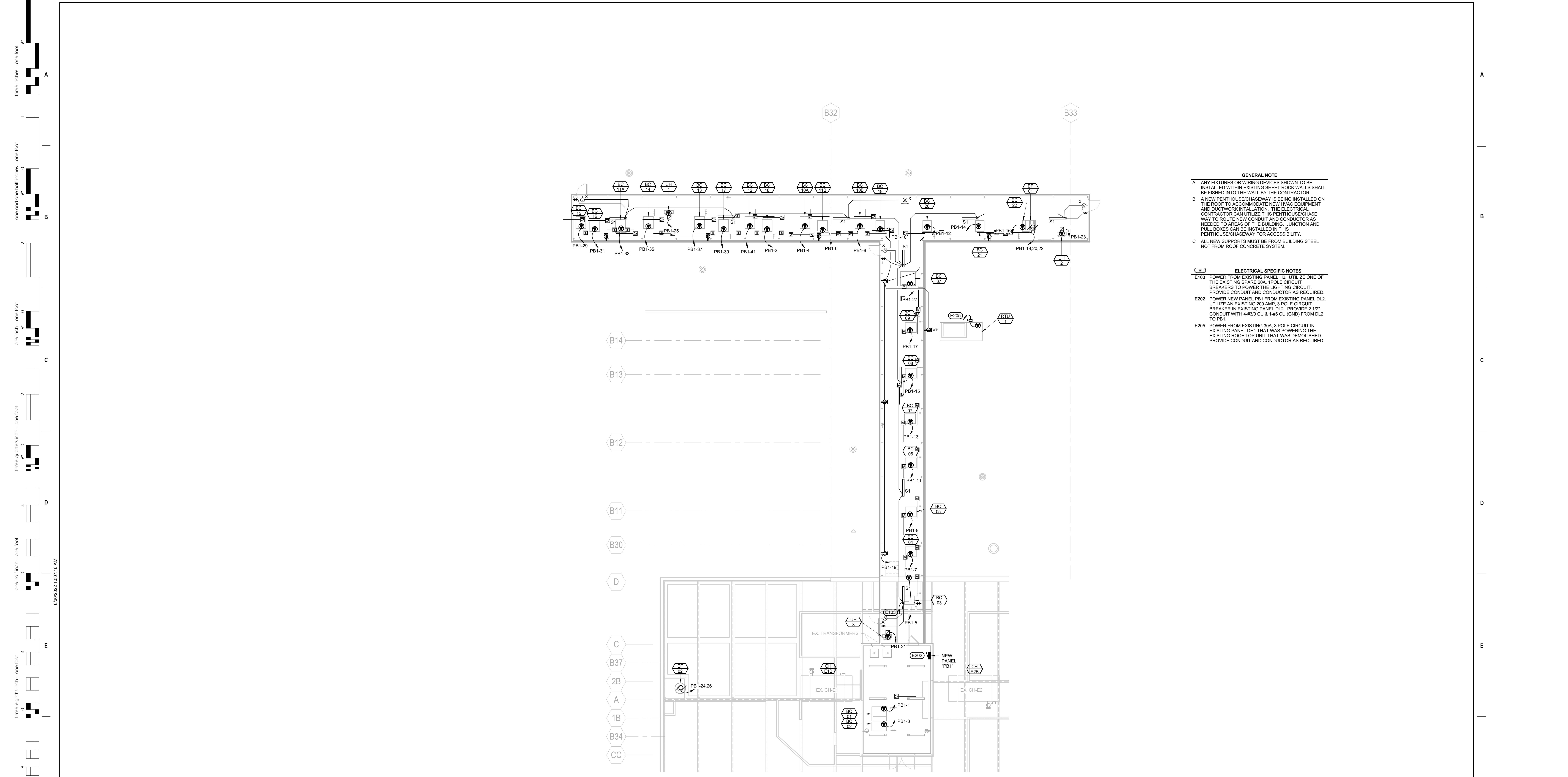
Checked  
**MKV**

Drawn  
**VLS**

Project Number  
**VA #568-20-102 SGA #211937**

Building Number  
**#148**

Drawing Number  
**EP-301**



1 ROOF ELECTRICAL PLAN  
1/8" = 1'-0"

- GENERAL NOTE**
- A ANY FIXTURES OR WIRING DEVICES SHOWN TO BE INSTALLED WITHIN EXISTING SHEET ROCK WALLS SHALL BE FISHERD INTO THE WALL BY THE CONTRACTOR.
  - B A NEW PENTHOUSE CHASEWAY IS BEING INSTALLED ON THE ROOF TO ACCOMMODATE NEW HVAC EQUIPMENT AND DUCTWORK INSTALLATION. THE ELECTRICAL CONTRACTOR CAN UTILIZE THIS PENTHOUSE CHASEWAY TO ROUTE NEW CONDUIT AND CONDUCTOR AS NEEDED TO AREAS OF THE BUILDING. JUNCTION AND PULL BOXES CAN BE INSTALLED IN THIS PENTHOUSE CHASEWAY FOR ACCESSIBILITY.
  - C ALL NEW SUPPORTS MUST BE FROM BUILDING STEEL NOT FROM ROOF CONCRETE SYSTEM.
- ELECTRICAL SPECIFIC NOTES**
- E103 POWER FROM EXISTING PANEL #2 UTILIZE ONE OF THE EXISTING SPARE 20A 1-POLE CIRCUIT BREAKERS TO POWER THE LIGHTING CIRCUIT. PROVIDE CONDUIT AND CONDUCTOR AS REQUIRED.
  - E202 POWER NEW PANEL PB1 FROM EXISTING PANEL DL2. UTILIZE AN EXISTING 300 AMP 3-POLE CIRCUIT BREAKER IN EXISTING PANEL DL2. PROVIDE 2 1/2" CONDUIT WITH 4-#30 CU & 1-#6 CU (GND) FROM DL2 TO PB1.
  - E205 POWER FROM EXISTING 30A 3-POLE CIRCUIT IN EXISTING PANEL DH1 THAT WAS POWERING THE EXISTING ROOF TOP UNIT THAT WAS DEMOLISHED. PROVIDE CONDUIT AND CONDUCTOR AS REQUIRED.

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

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Revision#	Description	Date:

**CONSULTANTS**

MECHANICAL / ELECTRICAL / PLUMBING: <b>WPE</b> West Plains Engineering, Inc. 1750 Rural Road Rapid City, South Dakota 57702 Phone: 605-348-7455	STRUCTURAL: Albertson Engineering, Inc. 3202 W. Main St., 4C Rapid City, South Dakota 57702 Phone: 605-343-9950
--	---

**ARCHITECT OF RECORD**

A/E:

STONE GROUP ARCHITECTS

**Office of Construction and Facilities Management**

VA U.S. Department of Veterans Affairs

Drawing Title  
**ROOF ELECTRICAL PLAN**

Approved:

Phase  
**CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**VA FM UPGRADE MENTAL HEALTH LOCK WARD**

Location  
**FORT MEADE, SOUTH DAKOTA**

Issue Date  
**08/26/2022**

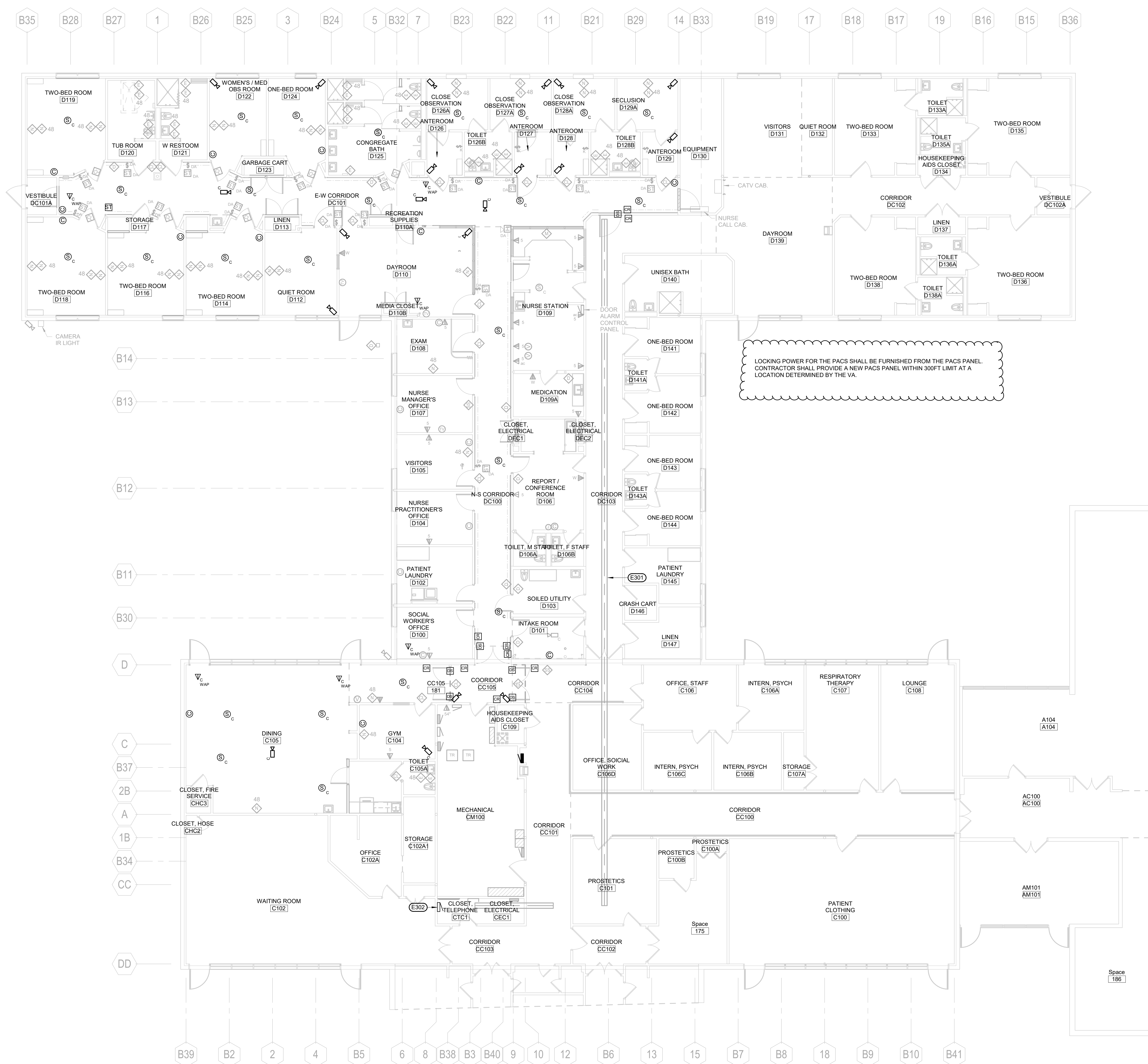
Checked  
**MKV**

Drawn  
**VLS**

Project Number  
**VA #568-20-102 SGA #211937**

Building Number  
**#148**

Drawing Number  
**EP-302**



1 1ST LEVEL SIGNAL REMODEL PLAN  
1/8" = 1'-0"

**ELECTRICAL MISCELLANEOUS NOTES**

- A ANY FIXTURES OR WIRING DEVICES SHOWN TO BE INSTALLED WITHIN EXISTING SHEET ROCK WALLS SHALL BE FISHERD INTO THE WALL BY THE CONTRACTOR.
- B A NEW CEILING IS BEING INSTALLED THAT WILL BE AT A HIGHER ELEVATION THAN THE EXISTING CEILING THAT IS BEING DEMOLISHED UNDER THIS PROJECT. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING DEMOLITION/REPLACEMENT DETAILS. ALL CONDUIT, CONDUCTOR, CABLING SHALL BE PROVIDED AS NEW TO ACCOMMODATE THE CHANGE IN CEILING ELEVATION. THE NEW CEILING THAT IS TO BE INSTALLED SHALL BE INACCESSIBLE AND THE CONTRACTOR SHALL COORDINATE CONDUIT ROUTING AND JUNCTION BOX LOCATIONS FOR ACCESSIBILITY REQUIREMENTS.
- C A NEW PENTHOUSE/CHASEWAY IS BEING INSTALLED ON THE ROOF TO ACCOMMODATE NEW HVAC EQUIPMENT AND DUCTWORK INSTALLATION. THE ELECTRICAL CONTRACTOR CAN UTILIZE THIS PENTHOUSE/CHASEWAY TO ROUTE NEW CONDUIT AND CONDUCTOR AS NEEDED TO AREAS OF THE BUILDING. JUNCTION AND PULL BOXES CAN BE INSTALLED IN THIS PENTHOUSE/CHASEWAY FOR ACCESSIBILITY.
- D EXISTING DATA AND SIGNAL DEVICES AND EQUIPMENT THAT ARE REMAINING SHALL BE REWIRED TO ACCOMMODATE CHANGE IN CEILING ELEVATION. NEW CONDUIT AND CONDUCTOR/CABLE SHALL BE PROVIDED. ALL CABLING SHALL BE INSTALLED IN CONDUIT TO ACCOMMODATE NEW INACCESSIBLE CEILING.
- E ALL NEW SUPPORTS MUST BE FROM BUILDING STEEL NOT FROM ROOF CONCRETE SYSTEM.
- F EXISTING CCTV CAMERAS AFFECTED BY THE CEILING REMOVAL AND REINSTALLATION SHALL BE REMOVED AND REINSTALLED IN THEIR ORIGINAL LOCATION TO ACCOMMODATE CEILING INSTALL. THE NEW CEILING WILL BE INSTALLED IN A HIGHER LOCATION THAN THE EXISTING. NEW CABLING SHALL BE PROVIDED TO THESE CAMERAS AND INSTALLED IN A CONDUIT.
- G NEW COMMUNICATIONS CABLING SHALL BE PROVIDED TO EXISTING DATA/CAMERA JACKS. THE NUMBER OF EXISTING CABLE DROPS HAVE BEEN NOTED NEXT TO EACH JACK. NEW CABLING SHALL BE PROVIDED TO THESE JACKS AND INSTALLED IN A CONDUIT.
- H EXISTING CEILING MOUNTED WIRELESS ACCESS POINTS AFFECTED BY THE CEILING REMOVAL AND REINSTALLATION SHALL BE REMOVED AND REINSTALLED IN THEIR ORIGINAL LOCATION TO ACCOMMODATE CEILING INSTALL. THE NEW CEILING WILL BE INSTALLED IN A HIGHER LOCATION THAN THE EXISTING. NEW CABLING SHALL BE PROVIDED TO THESE WIRELESS ACCESS POINTS AND INSTALLED IN A CONDUIT.
- I EXISTING CEILING MOUNTED FIRE ALARM DEVICES AFFECTED BY THE CEILING REMOVAL AND REINSTALLATION SHALL BE REMOVED AND REINSTALLED IN THEIR ORIGINAL LOCATION TO ACCOMMODATE CEILING INSTALL. THE NEW CEILING WILL BE INSTALLED IN A HIGHER LOCATION THAN THE EXISTING. NEW CABLING SHALL BE PROVIDED TO THESE FIRE ALARM DEVICES AND INSTALLED IN A CONDUIT.
- J EXISTING CEILING MOUNTED SPEAKERS AFFECTED BY THE CEILING REMOVAL AND REINSTALLATION SHALL BE REMOVED AND REINSTALLED TO ACCOMMODATE CEILING INSTALL. THE CONTRACTOR SHALL COORDINATE WITH THE "NURSE CALL AND OVERHEAD PAGE" DRAWINGS AND CONTRACTOR SO THAT AT THE END OF THE PROJECT THE SPEAKERS AND RTLS ARE INSTALLED IN THEIR NEW LOCATIONS. THE CONTRACTOR SHALL ASSUME WIRE AND CONDUIT WILL BE PULLED TO THE SPEAKERS AND RTLS STARS BY THE OTHER CONTRACTOR. THE NEW CEILING WILL BE INSTALLED IN A HIGHER LOCATION THAN THE EXISTING. NEW CABLING SHALL BE PROVIDED TO THESE SPEAKERS AND INSTALLED IN A CONDUIT. THE CONTRACTOR SHALL COORDINATE WITH THE "NURSE CALL AND OVERHEAD PAGE" DRAWINGS FOR THE SYSTEMS WHICH WILL BE SUPPLIED BY JCI/ASCOM.
- K SALLY PORT OPERATION: CORRIDOR CC105 SHALL OPERATE AS A SALLY PORT. DOORS CC105A, CC105B, CC105C SHALL BE PROVIDED WITH CARD READER AND DOOR POSITION SWITCHES. THE DOORS SHALL BE INTERLOCKED SO THAT ONLY ONE DOORWAY SHALL BE CAPABLE OF BEING OPENED AT A TIME AND TWO DOORWAYS SHALL BE OPENED AT THE SAME TIME. THE DOORS SHALL BE UNLOCKED VIA CARD READER OR VIA CONTROL LOCATED AT NURSE STATION D109. DOOR POSITION MONITORING SHALL BE PROVIDED VIA DOOR POSITION SWITCHES. AN OVERRIDE SHALL BE PROVIDED AT THE CONTROL IN THE NURSE STATION TO OVERRIDE NORMAL OPERATION OF SALLY PORT TO ALLOW FOR MULTIPLE DOORS TO BE OPENED AT ONE TIME. THIS WILL ALLOW FOR STRETCHER ACCESS DURING AN EMERGENCY EVENT.
- L EXISTING OVERHEAD DOOR ALARMS AFFECTED BY THE CEILING REMOVAL AND REINSTALLATION SHALL BE REMOVED AND REINSTALLED IN THEIR ORIGINAL LOCATION TO ACCOMMODATE CEILING INSTALL. THE NEW CEILING WILL BE INSTALLED IN A HIGHER LOCATION THAN THE EXISTING. NEW CONDUIT AND CABLING SHALL BE PROVIDED AS NECESSARY TO THESE OVERHEAD DOOR ALARMS.
- M NEW CLOCKS SHOWN TO BE INSTALLED SHALL BE SAPLING 883P-3P-406-UR OR APPROVED EQUAL. THESE CLOCKS SHALL BE FLUSH MOUNTED WITH THE WALL. THE CONTRACTOR SHALL PROVIDE AN APPROPRIATE WALL BOX FOR THE CLOCK WITH A 3/4" CONDUIT ROUTED BACK TO TELEPHONE CLOSET CT1. PROVIDE A CAT 5A CABLE IN CONDUIT BACK TO TELEPHONE CLOSET CT1. PROVIDE TERMINATIONS. PROVIDE ADDITIONAL PATCH PANELS AS REQUIRED FOR TERMINATION. THE CLOCK SHALL BE A DIGITAL CLOCK THAT SHALL RECEIVE TIME DATA FROM AN NTP OR Sntp SERVER OR A SAMPLING SMA SERIES MASTER CLOCK. TIME DATA SHALL BE TRANSMITTED AND RECEIVED BY THE CLOCK VIA SAMPLING IP COMMUNICATION PROTOCOL, WHICH SHALL BE DELIVERED TO THE CLOCK THROUGH A CAT5 CABLE. THE CLOCK SETTINGS SHALL BE ADJUSTABLE THROUGH A WEB INTERFACE THAT CAN BE ACCESSED BY A WEB BROWSER, SUCH AS INTERNET EXPLORER. SETTINGS FOR THE CLOCK SHALL INCLUDE DAYLIGHT SAVING TIME, NETWORK SETTINGS, AND A LIST OF UP TO 10 NTP SOURCES. THE CLOCK WILL BE POWERED USING POWER-OVER-ETHERNET (POE). THE CLOCK SHALL BE UL AND CUL LISTED.

**ELECTRICAL SPECIFIC NOTES**

- E301 EXISTING CABLE TRAY CAN BE UTILIZED FOR CABLING OUT TO DEVICES. CONDUIT SHALL BE RAN FROM TRAY TO DEVICE.
- E302 PROVIDE SAPLING MASTER CLOCK SMA 2000 SERIES OR APPROVED EQUAL TO ACT AS MASTER CLOCK FOR NEW CLOCK SYSTEM INSTALLED.

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

Revision# Description Date:


**CONSULTANTS**

MECHANICAL / ELECTRICAL / PLUMBING:

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Rapid City, South Dakota 57702  
Phone: 605-348-7455

STRUCTURAL:

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3202 W. Main St. 4C  
Rapid City, South Dakota 57702  
Phone: 605-343-9959

**ARCHITECT OF RECORD**

A/E:

**STONE GROUP ARCHITECTS**

**Office of Construction and Facilities Management**

VA U.S. Department of Veterans Affairs

Drawing Title

**1ST LEVEL SIGNAL REMODEL PLAN**

Approved:

Phase

**CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title

**VA FM UPGRADE MENTAL HEALTH LOCK WARD**

Location

**FORT MEADE, SOUTH DAKOTA**

Issue Date

**08/26/2022**

Checked

**MKV**

Drawn

**VLS**

Project Number

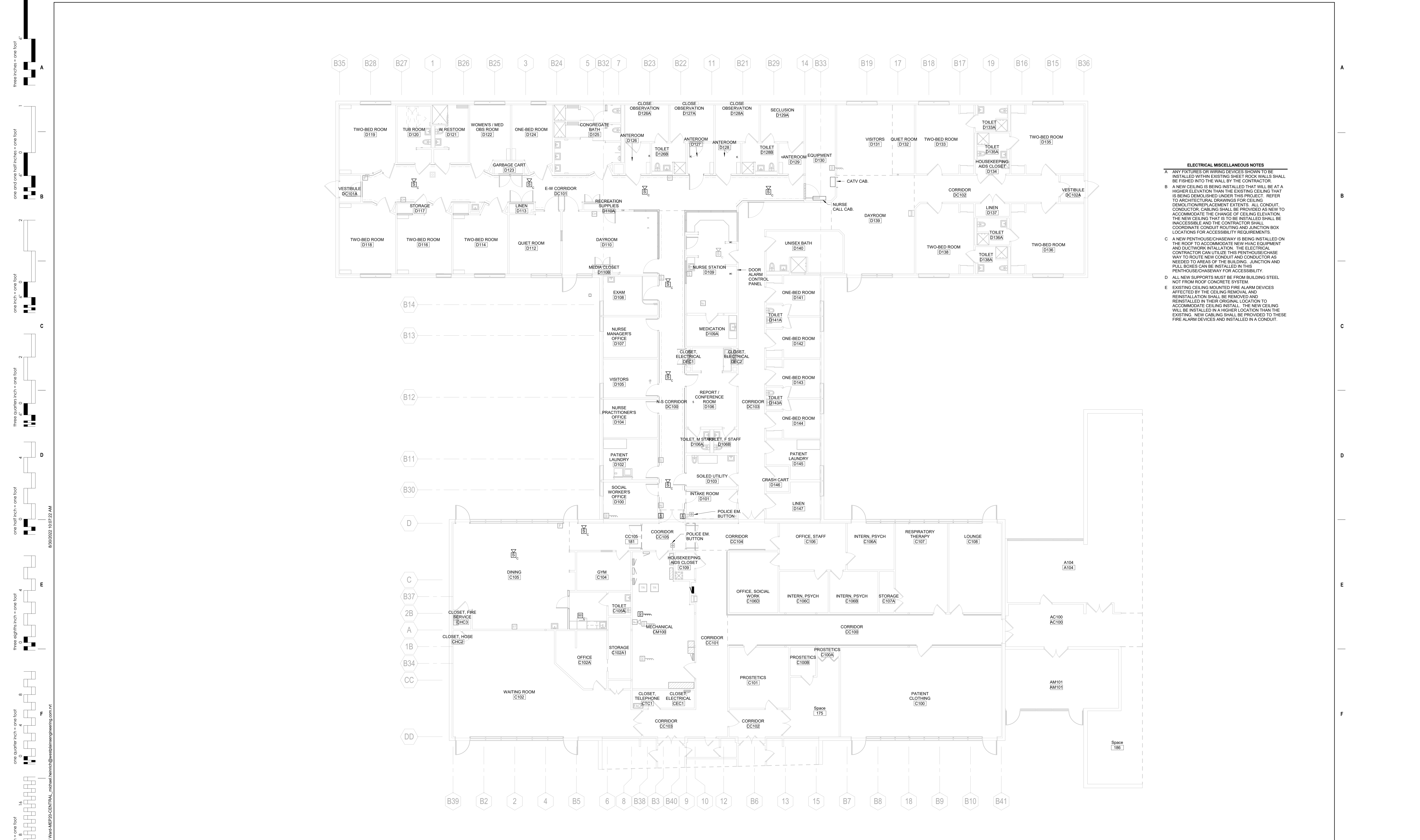
**VA #68-20-102 SGA #211937**

Building Number

**#148**

Drawing Number

**EY-401**



- ELECTRICAL MISCELLANEOUS NOTES**
- A ANY FIXTURES OR WIRING DEVICES SHOWN TO BE INSTALLED WITHIN EXISTING SHEET ROCK WALLS SHALL BE FIRED INTO THE WALL BY THE CONTRACTOR
  - B A NEW CEILING IS BEING INSTALLED THAT WILL BE AT A HIGHER ELEVATION THAN THE EXISTING CEILING THAT IS BEING DEMOLISHED UNDER THIS PROJECT. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING DEMOLITION/REPLACEMENT EXTENTS. ALL CONDUIT, CONDUCTOR, CABLING SHALL BE PROVIDED AS NEW TO ACCOMMODATE THE CHANGE OF CEILING ELEVATION. THE NEW CEILING THAT IS TO BE INSTALLED SHALL BE INACCESSIBLE AND THE CONTRACTOR SHALL COORDINATE CONDUIT ROUTING AND JUNCTION BOX LOCATIONS FOR ACCESSIBILITY REQUIREMENTS.
  - C A NEW PENTHOUSE/CHASEWAY IS BEING INSTALLED ON THE ROOF TO ACCOMMODATE NEW HVAC EQUIPMENT AND DUCTWORK INSTALLATION. THE ELECTRICAL CONTRACTOR CAN UTILIZE THIS PENTHOUSE/CHASEWAY TO ROUTE NEW CONDUIT AND CONDUCTORS AS NEEDED TO AREAS OF THE BUILDING. JUNCTION AND PULL BOXES CAN BE INSTALLED IN THIS PENTHOUSE/CHASEWAY FOR ACCESSIBILITY.
  - D ALL NEW SUPPORTS MUST BE FROM BUILDING STEEL NOT FROM ROOF CONCRETE SYSTEM.
  - E EXISTING CEILING MOUNTED FIRE ALARM DEVICES AFFECTED BY THE CEILING REMOVAL AND REINSTALLATION SHALL BE REMOVED AND REINSTALLED IN THEIR ORIGINAL LOCATION TO ACCOMMODATE CEILING INSTALL. THE NEW CEILING WILL BE INSTALLED IN A HIGHER LOCATION THAN THE EXISTING. NEW CABLING SHALL BE PROVIDED TO THESE FIRE ALARM DEVICES AND INSTALLED IN A CONDUIT.

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

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1 1ST LEVEL FIRE ALARM REMODEL PLAN  
 1/8" = 1'-0"

Revision#	Description	Date:

**CONSULTANTS**

MECHANICAL / ELECTRICAL / PLUMBING: <b>WPE</b> West Plains Engineering, Inc. 1750 Rural Road Rapid City, South Dakota 57702 Phone: 605-348-7455	STRUCTURAL: <b>Albertson Engineering, Inc.</b> 3202 W. Main St., 4C Rapid City, South Dakota 57702 Phone: 605-343-9899
--	--

**ARCHITECT OF RECORD**


A/E:



**STONE GROUP ARCHITECTS**

**STAMP**

Office of Construction and Facilities Management



Drawing Title

**1ST LEVEL FIRE ALARM REMODEL PLAN**

Approved: \_\_\_\_\_

Phase

**CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title

**VA FM UPGRADE MENTAL HEALTH LOCK WARD**

Location

**FORT MEADE, SOUTH DAKOTA**

Issue Date

**08/26/2022**

Project Number

**VA #568-20-102 SGA #211937**

Building Number

**#148**

Drawing Number

**FA-101**

