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

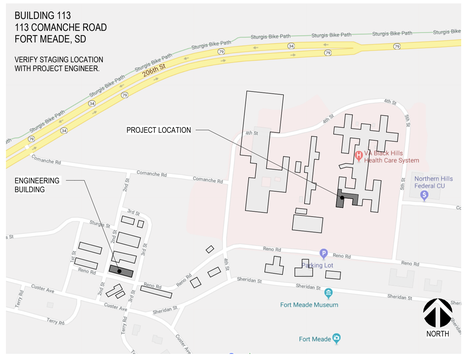
Black Hills Health Care System
Department of Veterans Affairs

SHEET INDEX

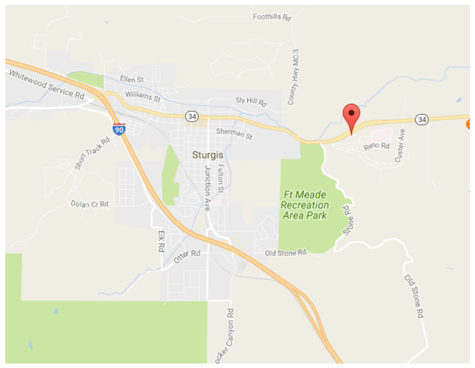
01 - GENERAL	
GI-001	ACCESSIBILITY DETAILS
GI-003	1ST LEVEL LIFE SAFETY PLAN
GI-000	COVER SHEET
GI-002	ACCESSIBILITY DETAILS
GI-004	2ND LEVEL LIFE SAFETY PLAN
5	
04 - STRUCTURAL	
S-601	TYPICAL DETAILS
S-001	STRUCTURAL GENERAL NOTES
S-002	IBC INSPECTION TABLES
S-003	WIND UPLIFT PLAN
S-004	SNOW DRIFT PLAN
S-101	EXISTING ROOF PLAN
S-102	PENTHOUSE FRAMING PLAN
S-501	DETAILS
8	
05 - ARCHITECTURAL DEMOLITION	
AD-101	1ST LEVEL DEMOLITION PLAN - FLOOR PLAN
AD-102	1ST LEVEL DEMOLITION PLAN - CEILING
AD-103	DEMOLITION PLAN - ROOF
AD-201	DEMOLITION ELEVATIONS
4	
06 - ARCHITECTURAL	
AE-101	1ST LEVEL FLOOR PLAN & SCHEDULES
AE-102	2ND LEVEL FLOOR PLAN
AE-110	1ST FLOOR REFLECTED CEILING PLAN
AE-120	ROOF PLAN
AE-201	ELEVATIONS
AE-301	BUILDING SECTIONS
AE-302	WALL SECTIONS & DETAILS
AE-450	INTERIOR ELEVATIONS
AE-601	SCHEDULES
AE-801	1ST LEVEL FINISH PLAN
AE-802	2ND LEVEL FINISH PLAN
11	
10 - MECHANICAL/PLUMBING	
MA-101	MECHANICAL AND PLUMBING ABBREVIATIONS & SYMBOLS
FX101	FIRE PROTECTION PLAN
PD-101	1ST LEVEL PLUMBING DEMOLITION PLAN
PP-101	1ST LEVEL PLUMBING REMODEL PLAN
PP-102	ROOF PLUMBING REMODEL PLAN
MD-101	1ST LEVEL HVAC PIPING DEMOLITION PLAN
MD-201	1ST LEVEL HVAC DEMOLITION PLAN
MP-101	1ST LEVEL PIPING REMODEL PLAN
MP-102	ROOF PIPING PLAN
MH-101	1ST LEVEL HVAC REMODEL PLAN
MH-102	ROOF HVAC REMODEL PLAN
MJ-501	MECHANICAL DETAILS
MJ-502	MECHANICAL SCHEDULES
MJ-503	MECHANICAL SCHEDULES
MJ-504	MECHANICAL SCHEDULES
MJ-505	MECHANICAL SECTIONS
16	
11 - ELECTRICAL	
EA-101	ELECTRICAL SYBOLS & ABBREVIATIONS
ED-101	1ST LEVEL LIGHTING DEMOLITION PLAN
ED-102	1ST LEVEL POWER DEMOLITION PLAN
ED-103	1ST LEVEL SIGNAL DEMOLITION PLAN
EL-201	1ST LEVEL LIGHTING REMODEL PLAN
EP-301	1ST LEVEL POWER REMODEL PLAN
EP-302	ROOF ELECTRICAL REMODEL PLAN
EY-401	1ST LEVEL SIGNAL REMODEL PLAN
FA-101	1ST LEVEL FIRE ALARM REMODEL PLAN
EJ-501	ELECTRICAL DETAILS & SCHEDULES
10	

TOTAL SHEET COUNT: 54

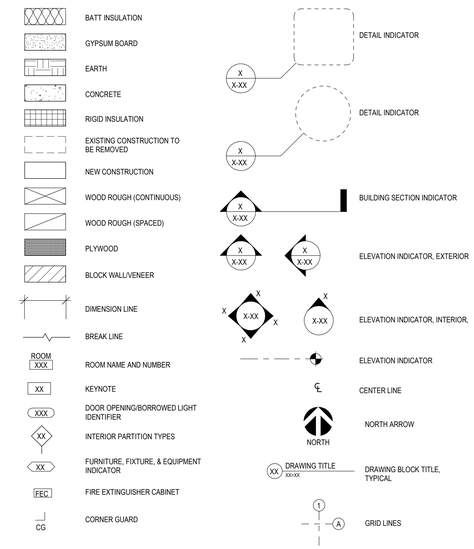
SITE MAP



VICINITY MAP



SYMBOLS LEGEND



COMMON ABBREVIATIONS

SYMBOLS USED AS ABBREVIATIONS:

&	AND
L	ANGLE
LL	DOUBLE ANGLE
@	AT
¢	PENNEY
#	POUND OR NUMBER
Ø	ROUND OR DIAMETER

ABBREVIATIONS:

A/E	ARCHITECT/ENGINEER
AB	ANCHOR BOLT/ROD
ABV	ABOVE
AC	ASPHALTIC CONCRETE/AIR CONDITIONER
ACC	ACCESSIBLE
ACM	ALUMINUM COMPOSITE MATERIAL
ACOUS	ACOUSTICAL
ACT	ACOUSTICAL CEILING TILE
ADA	AMERICANS WITH DISABILITIES ACT
ADD	ADDENDUM
ADH	ADHESIVE
ADJ	ADJUSTABLE, ADJACENT, ADJOINING
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AHJ	AUTHORITY HAVING JURISDICTION
ALT	ALTERNATE
ALUM	ALUMINUM
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APC	ACOUSTICAL PANEL CEILING
APPROX	APPROXIMATE
ARCH	ARCHITECT (URAL)
ASI	ARCHITECTURAL SUPPLEMENTAL INFORMATION
BD	BOARD
BEV	BEVELED
BFF	BELOW FINISH FLOOR
BL	BRICK LEDGE
BLDG	BUILDING
BLKG	BLOCK (ING)
BM	BEAM
BOT	BOTTOM
BO	BOTTOM OF
BOC	BOTTOM OF CONCRETE
BOF	BOTTOM OF FOOTING
BRG	BEARING
BRK	BRICK
BSMT	BASEMENT
BTWN	BETWEEN
BUR	BUILT-UP ROOFING
C	CHANNEL/CELSIUS
CAB	CABINET
CB	CERAMIC BASE
CD	CONSTRUCTION DOCUMENTS
CEM	CEMENT
CF	CUBIC FEET OR FOOT
CG	CORNER GUARD
CIPC	CAST-IN-PLACE CONCRETE
CJ	CONTROL/CONSTRUCTION JOINT
CL	CENTER LINE
CLG	CEILING
CLKG	CAULKING
CLR	CLEAR, CLEARANCE
CMU	CONCRETE MASONRY UNIT
CO	CHANGE ORDER/CLEAN OUT
COL	COLUMN
COMB	COMBINATION
COMP	COMPOSITE/COMPOSITION
CONC	CONCRETE
CONN	CONNECT (ION)
CONST	CONSTRUCTION
CONT	CONTINUOUS, CONTINUE
CONTR	CONTRACT (OR)
COORD	COORDINATE
CORR	CORRUGATED/CORRIDOR
CPT	CARPET
CPPT	CARPET TILE
CSMT	CASEMENT
CT	CERAMIC TILE
CTB	CARPET TILE BASE
CTR	CENTER
D	DEPTH
DBL	DOUBLE
DEMO	DEMOLITION, DEMOLISH
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIV	DIVIDE, DIVISION
DISP	DISPENSER
DN	DOWN
DR	DOOR
DS	DOWNSPOUT
DW	DISHWASHER
DWG	DRAWING (S)
DWR	DRAWER
DWTR	DUMBWAITER
(E)	EXISTING
E	EAST
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
ENL	ENLARGED
EMER	EMERGENCY
ENGR	ENGINEER
EOP	EDGE OF PAVEMENT
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EPS	EXPANDED POLYSTYRENE BOARD
EPT	EPOXY PAINT
EQ	EQUAL
EQUIP	EQUIPMENT
ES	EACH SIDE
EST	ESTIMATE
ETC	ETCETERA
ETR	EXISTING TO REMAIN
EW	EACH WAY
EXIST	EXISTING
EXC	EXCAVATE/EXCAVATION
EXH	EXHAUST
EXP	EXPANSION/EXPOSED
EXT	EXTERIOR
EWC	ELECTRIC WATER COOLER
FA	FIRE ALARM
FAB	FABRICATE/FABRICATION
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDTN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISHED FLOOR
FFE	FINISH FLOOR ELEVATION
FIN	FINISH (ED)
FLOUR	FLUORESCENT
FLR	FLOOR (ING)
FO	FACE OF
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FOF	FACE OF FINISH
FR	FIRE RESISTANT/FRAME
FRP	FIBERGLASS REINFORCED PANEL
FS	FLOOR SINK
FT	FOOT, FEET/FIRE TREATED
FTG	FOOTING
FURG	FURRING
FUT	FUTURE
GA	GAGE, GAUGE
GB	GRAB BAR
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GI	GALVANIZED IRON
GL	GLASS
GLU LAM	GLUE LAMINATED (BEAM)
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
HB	HOSE BIB
HC	HANDICAP / HOLLOW CORE
HD	HEAVY DUTY
HDBD	HARDBOARD
HDR	HEADER
HDWD	HARDWOOD
HDWR	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HR	HOUR
HT	HEIGHT
HVAC	HEATING, VENTILATION, AIR-CONDITIONING
IBC	INTERNATIONAL BUILDING CODE
ICC	INTERNATIONAL CODE COUNCIL
ID	INSIDE DIAMETER/DIMENSION
IFC	INTERNATIONAL FIRE CODE
IN	INCH(ES)
INCL	INCLUDE (D), INCLUDING
INFO	INFORMATION
INSP	INSPECTION
INSTR	INSTRUCTION(S)
INSUL	INSULATE (D), INSULATION
INT	INTERIOR
JAN	JANITOR
JST	JOIST
JT	JOINT
KCJ	KEYED CONSTRUCTION JOINT
KO	KNOCK OUT
L	LENGTH / ANGLE
LAB	LABORATORY
LAM	LAMINATE (ED)
LAV	LAVATORY
LB	POUND
LF	LINEAR FEET
LH	LEFT HAND
LKR	LOCKER
LOC	LOCATION
LONG	LONGITUDINAL
LT	LIGHT
LVR	LOUVER
LVT	LUXURY VINYL TILE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MC	MEDICINE CABINET
MECH	MECHANICAL
MEMB	MEMBRANE
MEZZ	MEZZANINE
MFR	MANUFACTURE (R)
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MR	MIRROR
MTL	METAL
(N)	NEW
N	NORTH
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED / CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED / OWNER INSTALLED
OH	OVERHEAD
OPP	OPPOSITE
OPG	OPENING
ORIG	ORIGINAL
ORD	OVERFLOW ROOF DRAIN
OZ	OUNCE
PAR	PARALLEL
PCF	POUNDS PER CUBIC FOOT
PED	PEDESTAL
PERF	PERFORATED
PERP	PERPENDICULAR
PL	PLATE
PLAM	PLASTIC LAMINATE
PLYWD	PLYWOOD
PNL	PANEL
PR	PAIR/PROPOSAL REQUEST
PRCST	PRECAST CONCRETE
PREFAB	PREFABRICATE
PSI	POUNDS PER SQUARE INCH
PSF	POUNDS PER SQUARE FOOT
PT	PAINT / PRESSURE TREATED
PTD	PAPER TOWEL DISPENSER
PTN	PARTITION
PTR	PAPER TOWEL RECEPTACLE
PVC	POLYVINYL CHLORIDE
PLBG	PLUMBING
QT	QUARRY TILE
R	RADIUS/RISER
RB	RUBBER BASE
RBR	RUBBER
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REBAR	REINFORCING BAR
REC	RECESSED
REF	REFERENCE/REFRIGERATOR
REINF	REINFORCE (D), (ING), (MENT)
REQ	REQUIRE
REQD	REQUIRED
RES	RESILIENT FLOORING
RET	RETURN
REV	REVISION (S), REVISED
RFI	REQUEST FOR INFORMATION
RFP	REQUEST FOR PROPOSAL
RH	RIGHT HAND
RL	RIDGE LINE
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RVS	REVERSE (SIDE)
RWL	RAIN WATER LEADER
S	SOUTH
SB	SPLASH BLOCK
SC	SOLID CORE
SCHED	SCHEDULE
SCR	SHOWER CURTAIN ROD
SCT	SECTION
SD	SOAP DISPENSER
SF	SQUARE FOOT
SHT	SHEET
SHTHG	SHEATHING
SIM	SIMILAR
SLDG	SLIDING
SLNT	SEALANT
SND	SANITARY NAPKIN DISPENSER
SNX	SANITARY NAPKIN DISPOSAL
SOG	SLAB ON GRADE
SPEC	SPECIFICATION (S)
SQ	SQUARE
SSM	SOLID SURFACE MATERIAL
SST	STAINLESS STEEL
ST	STREET
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SV	SHEET VINYL
SW	SHEARWALL
SYM	SYMMETRICAL
T	TREAD
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROVE
TB	TOWEL BAR
TBD	TO BE DETERMINED
TEMP	TEMPORARY/TEMPERED
TER	TERRAZZO
TFE	TOP FOOTING ELEVATION
THD	THREAD (ED) (S)
THK	THICKNESS
THRU	THROUGH
TKBD	TACKBOARD
TL	TILE
TO	TOP OF
TOB	TOP OF BEAM
TOC	TOP OF CONCRETE/CURB
TOD	TOP OF DECK
TOF	TOP OF FOOTING (FOUNDATION)
TOM	TOP OF MASONRY
TOP	TOP OF PIER
TOJ	TOP OF JOIST
TOS	TOP OF SLAB/STEEL
TOW	TOP OF WALL
TPD	TOILET PAPER DISPENSER
TPO	THERMOPLASTIC POLYOLEFIN
TPTN	TOILET PARTITION
TRANS	TRANSVERSE
TS	TUBE STEEL
TYP	TYPICAL
UG	UNDERGROUND
UH	UNIT HEATER
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
UTIL	UTILITY
V	SHEAR
VAR	VARIES
VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VR	VAPOR RETARDER
VWC	VINYL WALL COVERING
W	WEST/WIDTH
W/	WITH
W/O	WITHOUT
WA	WEDGE ANCHOR
WB	WOOD BASE
WC	WATER CLOSET
WD	WOOD/WOODWORK
WDW	WINDOW
WF (W)	WIDE FLANGE
WG	WALL GUARD
WH	WATER HEATER
WI	WROUGHT IRON
WL	WIND LOAD
WP	WATERPROOF (ING)
WR	WATER RESISTANT
WSCT	WAINSCOT
WT	WEIGHT/WINDOW TREATMENT
WWF	WELDED WIRE FABRIC

Revision#	Description	Date:

CONSULTANTS

MECHANICAL / ELECTRICAL / PLUMBING:

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

STRUCTURAL:

Albertson Engineering Inc.

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

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

U.S. Department of Veterans Affairs

Drawing Title: COVER SHEET

Phase: CONSTRUCTION DOCUMENTS

Approved:

FULLY SPRINKLERED

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-000

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

C:_SGA Revit Local\211937 VA FM Upgrade MH Ward_jessekl.RVT 8/30/2022 7:39:25 AM

VA FORM 08 - 6231

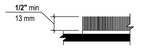


Figure 302.2
Carpet Pile Height

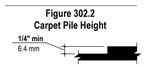


Figure 303.2
Vertical Change in Level

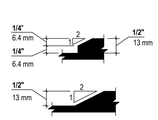


Figure 303.3
Beveled Change in Level

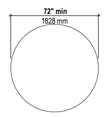


Figure 304.3.1
Circular Turning Space

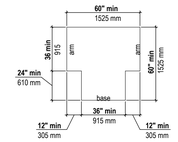


Figure 304.3.2
T-Shaped Turning Space

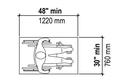


Figure 305.3
Clear Floor or Ground Space

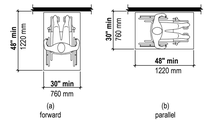


Figure 305.5
Position of Clear Floor or Ground Space

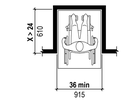


Figure 305.7.1
Maneuvering Clearance in an Alcove, Forward Approach

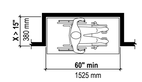


Figure 305.7.2
Maneuvering Clearance in an Alcove, Parallel Approach

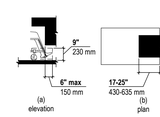


Figure 306.2
Toe Clearance

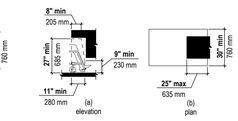


Figure 306.3
Knee Clearance

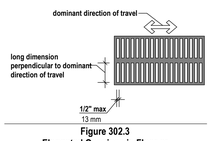


Figure 302.3
Elongated Openings in Floor or Ground Surfaces

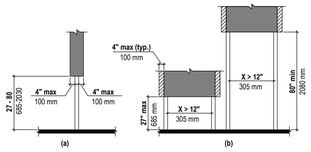


Figure 307.3
Post-Mounted Protruding Objects

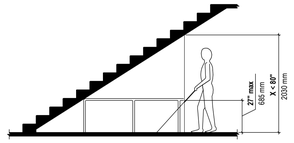


Figure 307.4
Vertical Clearance

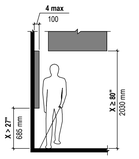


Figure 307.2
Limits of Protruding Objects

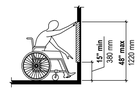


Figure 308.2.1
Unobstructed Forward Reach

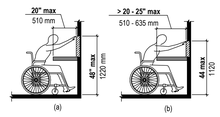


Figure 308.2.2
Obstructed High Forward Reach

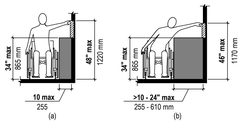


Figure 308.3.2
Unobstructed High Side Reach

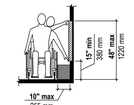


Figure 308.3.1
Unobstructed Side Reach

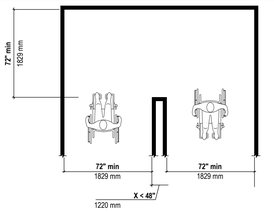


Figure 403.5.2
Clear Width at Turn

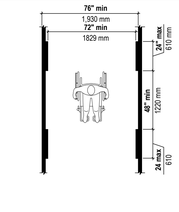


Figure 403.5.1
Clear Width of an Accessible Route

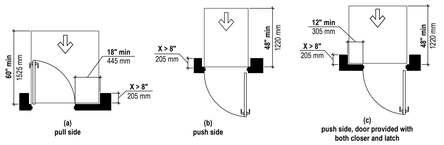


Figure 404.2.4.3
Maneuvering Clearance at Recessed Doors and Gates

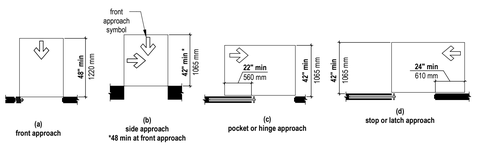


Figure 404.2.4.2
Maneuvering Clearance at Sliding and Folding Doors

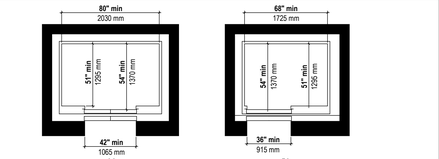


Figure 407.4.1
Elevator Car Door Sizes

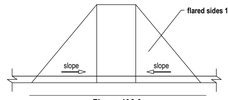


Figure 406.3
Sides of Curb Ramps

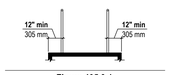


Figure 405.9.1
Extended Floor or Ground Surface Edge Protection

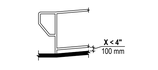


Figure 405.9.2
Curb or Barrier Edge Protection

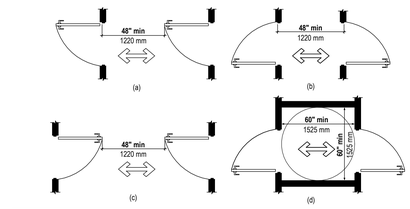


Figure 404.2.6
Doors in Series and Gates in Series

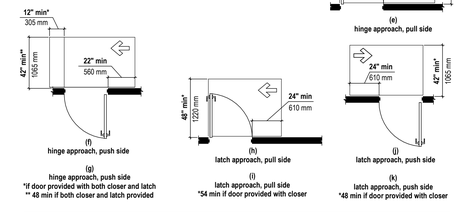


Figure 404.2.4.1
Maneuvering Clearance at Manual Swinging Doors and Gates

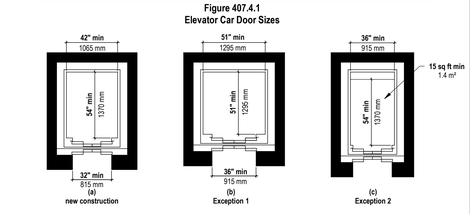


Figure 408.4.1
Limited Use/Limited Application (LULA) Elevator Car and Door Sizes

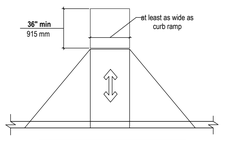


Figure 406.4
Landings at the Top of Curb Ramps

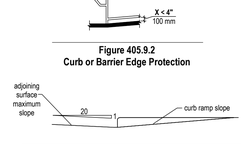


Figure 406.2
Counter Slope of Surfaces Adjacent to Curb Ramps

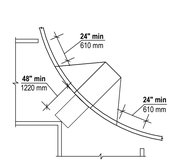


Figure 406.6
Diagonal or Corner Type Curb Ramps

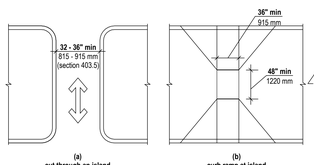


Figure 406.7
Islands in Crossings

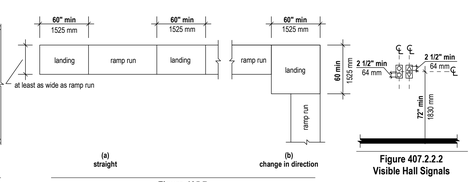


Figure 405.7
Ramp Landings

Figure 407.2.2.2
Visible Hall Signals

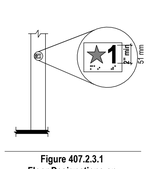


Figure 407.2.3.1
Floor Designations on Jambs of Elevator Hoistway Entrances

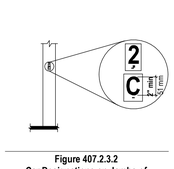


Figure 407.2.3.2
Car Designations on Jambs of Destination-Oriented Elevator Hoistway Entrances

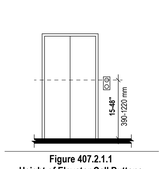


Figure 407.2.1.1
Height of Elevator Call Buttons

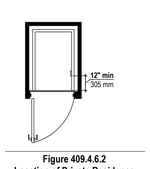


Figure 409.4.6.2
Location of Private Residence Elevator Control Panels

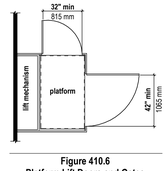


Figure 410.6
Platform Lift Doors and Gates

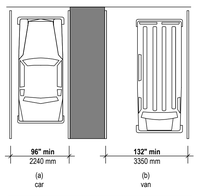


Figure 502.2
Vehicle Parking Spaces

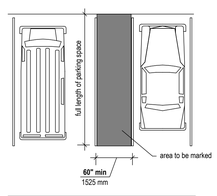


Figure 502.3
Parking Space Access Aisle

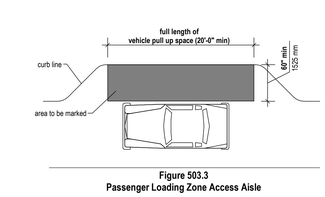


Figure 503.3
Passenger Loading Zone Access Aisle

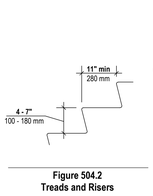


Figure 504.2
Treads and Risers

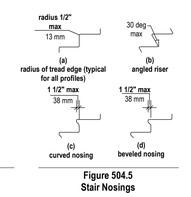


Figure 504.5
Stair Nosings

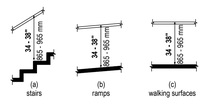


Figure 505.4
Handrail Height

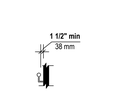


Figure 505.5
Handrail Clearance

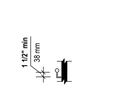


Figure 505.6
Horizontal Projections Below Gripping Surface

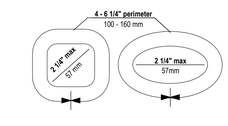


Figure 505.7.2
Handrail Non-Circular Cross Section

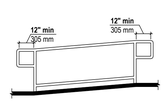


Figure 505.10.1
Top and Bottom Handrail Extensions at Ramps

Figure 505.10.2
Top Handrail Extension at Stairs

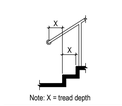


Figure 505.10.3
Bottom Handrail Extension at Stairs

BUILDING BLOCKS

ACCESSIBLE ROUTES

GENERAL SITE AND BUILDING ELEMENTS

Revision#	Description	Date:

CONSULTANTS

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

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

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: ACCESSIBILITY DETAILS
Phase: CONSTRUCTION DOCUMENTS
Project Title: VA FM UPGRADE MENTAL HEALTH LOCK WARD
Project Number: VA #568-20-102 SGA #211937
Building Number: 148
Approved:
FULLY SPRINKLERED
Location: FORT MEADE, SOUTH DAKOTA
Issue Date: 08/29/22
Checked: JHK
Drawn: RMV/DAN
Drawing Number: GI-001

C:\..SGA Revit Local\211937 VA FM Upgrade MH Ward_jessek\FPWE.rvt
8/30/2022 7:39:28 AM

VA FORM 08 - 6231

Figure 602.5
Drinking Fountain
Spout Location

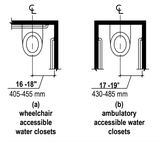


Figure 604.2
Water
Closet
Location

Figure 604.3.1
Size of Clearance at
Water
Closets

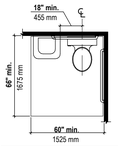


Figure 604.3.2 (exception)
Overlap of Water Closet
Clearance in Residential
Dwelling Units

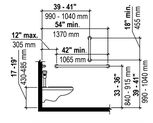


Figure 604.5.1
Side Wall Grab Bar at
Water Closets

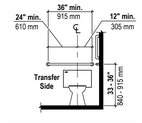


Figure 604.5.2
Rear Wall Grab Bar at
Water Closets

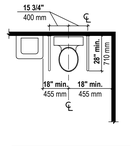


Figure 604.5.3
Swing-up Grab Bar for
Water Closet

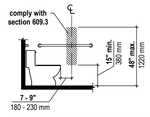


Figure 604.7
Dispenser Outlet
Location

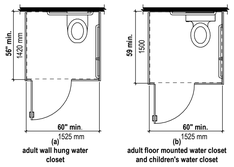


Figure 604.8.1.1
Size of Wheelchair Accessible
Toilet Compartment

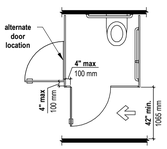


Figure 604.8.1.2
Wheelchair Accessible Toilet
Compartment Doors

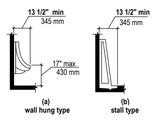


Figure 605.2
Height and Depth of
Urinals

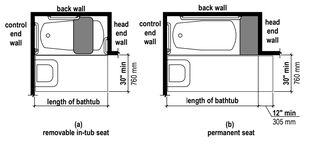


Figure 607.2
Clearance for Bathtubs

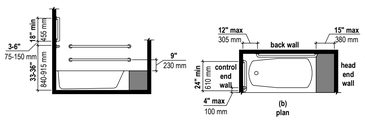


Figure 607.4.1
Grab Bars for Bathtubs with
Permanent Seats

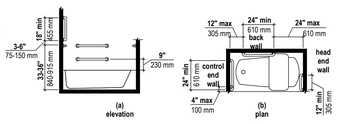


Figure 607.4.2
Grab Bars for Bathtubs with
Removable In-Tub Seats

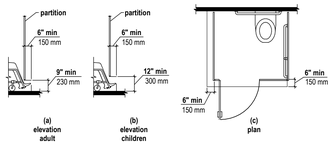


Figure 604.8.1.4
Wheelchair Accessible Toilet
Compartment Toe Clearance

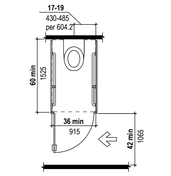


Figure 604.8.2
Ambulatory Accessible Toilet
Compartment

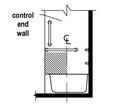
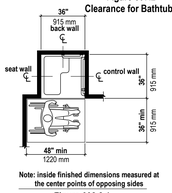
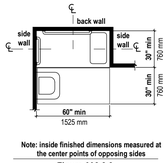


Figure 607.5
Bathtub Control
Location



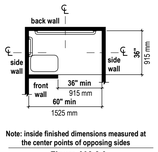
Note: inside finished dimensions measured at the center points of opposing sides

Figure 608.2.1
Transfer Type Shower
Compartment Size and
Clearance



Note: inside finished dimensions measured at the center points of opposing sides

Figure 608.2.2
Standard Roll-In Type
Shower Compartment
Size and Clearance



Note: inside finished dimensions measured at the center points of opposing sides

Figure 608.2.3
Alternate Roll-In Type
Shower Compartment
Size and Clearance

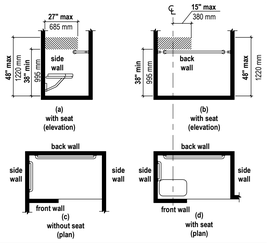


Figure 608.5.3
Alternate Roll-In Type Shower Compartment Control Location

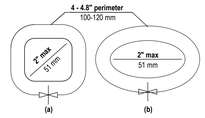


Figure 609.2.2
Grab Bar Non-Circular Cross Section

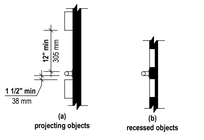


Figure 609.3
Spacing of Grab Bars

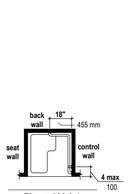


Figure 608.3.1
Grab Bars for Transfer-
Type Showers

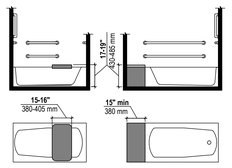


Figure 610.2
Bathtub Seats

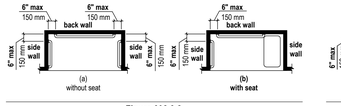


Figure 608.3.2
Grab Bars for Standard
Roll-In Type Showers

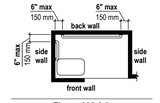


Figure 608.3.3
Grab Bars for Alternate
Roll-In Type Showers

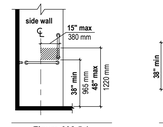


Figure 608.5.1
Transfer-Type Shower
Compartment Control
Location

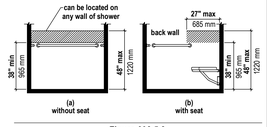


Figure 608.5.2
Standard Roll-In Type
Shower Compartment
Control Location

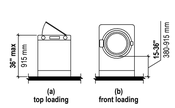


Figure 611.4
Height of Laundry
Compartment Opening

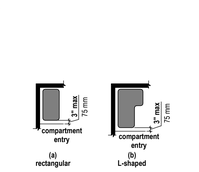


Figure 610.3
Extent of Seat

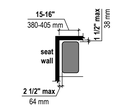


Figure 610.3.1
Rectangular Shower Seat

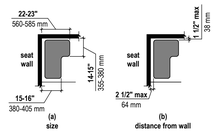


Figure 610.3.2
L-Shaped Shower Seat

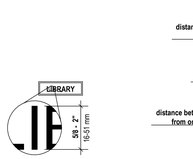


Figure 703.2.5
Height of Raised
Characters

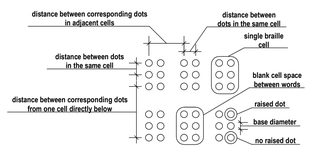


Figure 703.3.1
Braille Measurement

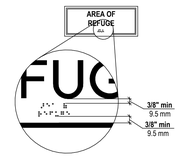


Figure 703.3.2
Position of Braille

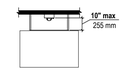


Figure 704.2.1.1
Parallel Approach to
Telephone

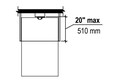


Figure 704.2.1.2
Forward Approach to
Telephone

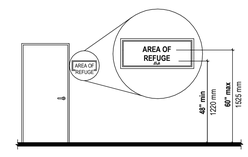


Figure 703.4.1
Height of Tactile Characters
Above Floor or Ground

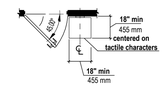


Figure 703.4.2
Location of Tactile Signs
at Doors

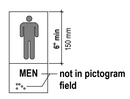


Figure 703.6.1
Pictogram Field

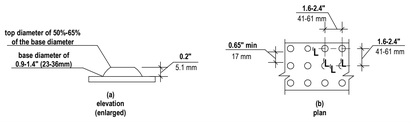


Figure 705.1
Size and Spacing of
Truncated Domes

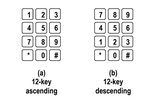


Figure 707.6.2
Numeric Key Layout

Figure 703.7.2.1
International Symbol of Accessibility

Figure 703.7.2.2
International TTY Symbol

Figure 703.7.2.3
Volume-Controlled Telephone

Figure 703.7.2.4
International Symbol of Access for
Hearing Loss

Revision#	Description	Date:

CONSULTANTS

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

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

ARCHITECT OF RECORD

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

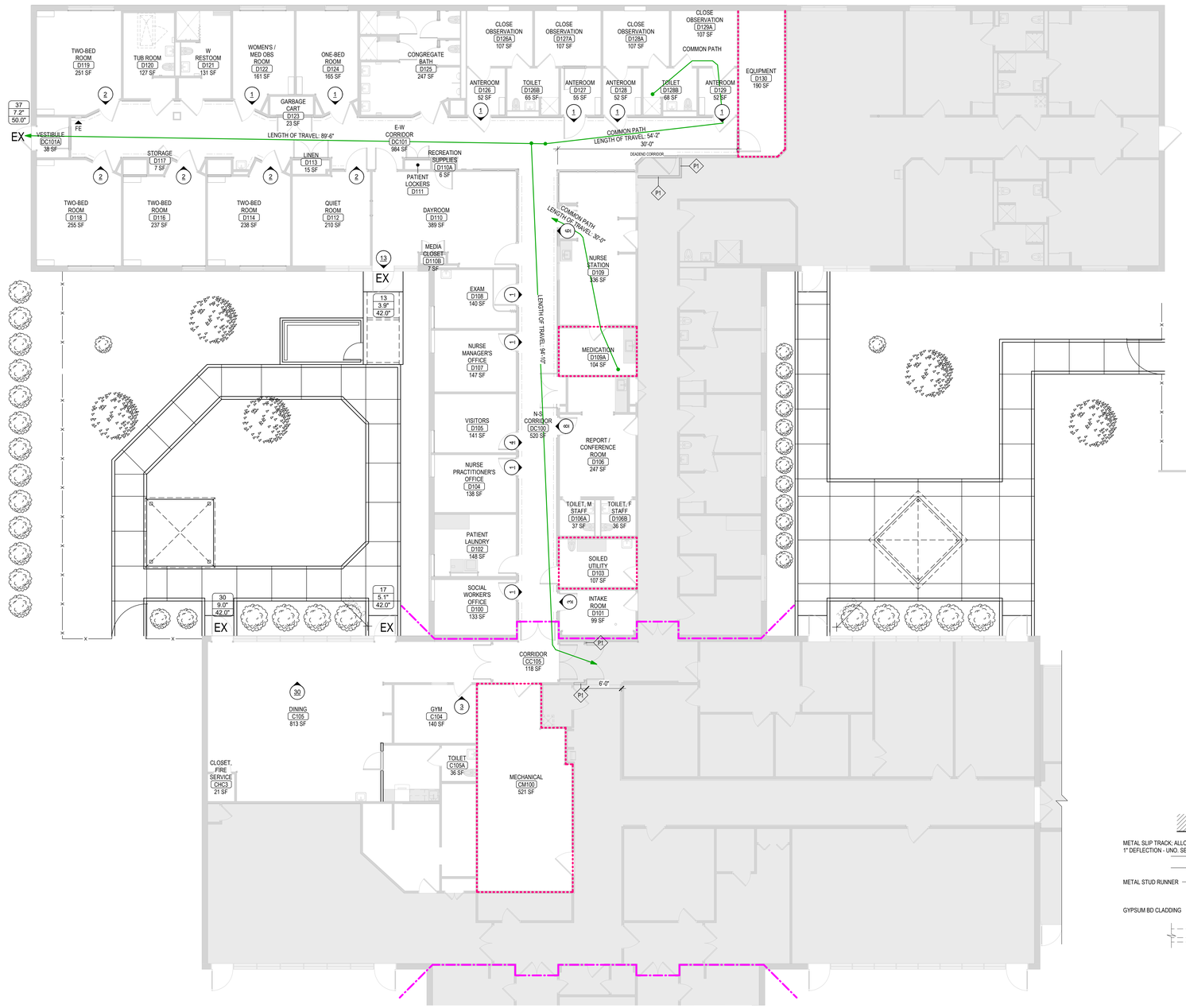
STAMP

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

Drawing Title: ACCESSIBILITY DETAILS	Phase: CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: VA FM UPGRADE MENTAL HEALTH LOCK WARD		Project Number: VA #568-20-102 SGA #211937
		Building Number: 148
Location: FORT MEADE, SOUTH DAKOTA		Drawing Number: GI-002
Issue Date: 08/29/22	Checked: JHK	Drawn: RMV/DAN

C:\..SGA Revit Local\211937 VA FM Upgrade MH Ward_jesseLUPVVE.rvt
8/30/2022 7:39:30 AM
VA FORM 08 - 6231



NORTH

F2 1ST LEVEL CODE PLAN
1/8" = 1'-0"

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 (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, 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 (ABAAS) 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, 10 CFR PARTS 433, 434, AND 435.
- FEDERAL LEADERSHIP IN HIGH PERFORMANCE AND SUSTAINABLE BUILDINGS: MEMORANDUM OF UNDERSTANDING (MOU)
- EXECUTIVE ORDER 13423: STRENGTHENING FEDERAL ENVIRONMENT, ENERGY, AND TRANSPORTATION MANAGEMENT.
- THE PROVISIONS FOR CONSTRUCTION AND SAFETY SIGNS. STATED IN THE GENERAL REQUIRMENTS 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, A18.1
- STANDARDS FOR THE QUALIFICATION OF ELEVATOR INSPECTORS – ASME QUE-1
- GUIDE FOR INSPECTION OF ELEVATORS – A17.2
- AMERICAN SOCIETY OF SAFETY ENGINEERS (ASSE) – PERSONNEL HOISTS 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 AN ALL MATERIALS, EQUIPMENT AND TOOLS MUST BE BEHIND LOCKED DOORS.
D. ACCESS TO LOCKED WARD PORTIONS EXCEPT PER PHASING IS STRICLY PROHIBITED.

BUILDING CODE SUMMARY

PROJECT: VA PROJECT #		FORT MEADE VAMC - UPGRADE MENTAL HEALTH LOCK WARD – BLDG 148 568-20-102
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: PLUMBING CODE: MECHANICAL CODE: ELECTRICAL CODE:		NFPA NATIONAL FIRE CODES WITH THE EXCEPTION OF NFPA 5000 AND NFPA 900 2021 INTERNATIONAL PLUMBING CODE 2021 INTERNATIONAL MECHANICAL 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 STORIES	160' (TABLE 503.4) 4 STORIES (TABLE 504.4) – 4 OR MORE STORIES (LSC TABLE 19.1.6.1)
ACTUAL HEIGHT:	FEET STORIES	13'-6" 1-STORY
ALLOWABLE FLOOR AREA:		UNLIMITED (SECTIONS 503 & 506, TABLE 506.2) N/A (NFPA 101)

ACTUAL FLOOR AREA:	BASEMENT	FIRST	SECOND
EXISTING REMODEL	0	14,803 SF	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 &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 IN. / PERSON
DOOR	0.2 IN. / PERSON

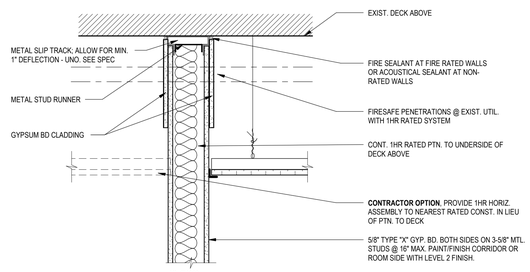
CORRIDOR WALLS:
- CORRIDOR WALLS IN SMOKE COMPARTMENT NON-FIRE RATED PARTITIONS BUT MUST LIMIT THE TRANSFER OF SMOKE. (LSC 19.3.6.2.2 THROUGH LSC 19.3.6.2.6)
- SPACES OTHER THAN PATIENT SLEEPING ROOMS, TREATMENT ROOMS, AND HAZERDOUS AREAS, SHALL BE PERMITTED TO BE OPEN TO THE CORRIDOR. (LSC 19.3.6.1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

TRAVEL DISTANCE LIMITS: (TABLE A.7.6)

COMMON:	TRAVEL:	DEAD END:
100 FT	200 FT	30 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.



CONTRACTOR OPTION. RECONFIGURE EXISTING SPRINKLER SYSTEMS TO PROVIDE TEMPORARY UPRIGHT HEADS WITHIN 12" OF ROOF DECK FOR FULL SPRINKLER COVERAGE OF THE CONSTRUCTION AREA IN LIEU OF RATED TEMPORARY SEPERATIONS UNTIL NEW SPRINKLER SYSTEM IS IN PLACE AND CEILING FINISHES ARE INSTALLED.

G8 FIRE RATED TEMPORARY DUST PARTITION
1 1/2" = 1'-0"

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
FE	FIRE EXTINGUISHER
EX	EXIT
OCCUPANT LOAD / MINIMUM DOR WIDTH / DOOR WIDTH: 37 / 7.2" / 50.0"	DOOR WIDTH

Revision#	Description	Date:

CONSULTANTS

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

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

ARCHITECT OF RECORD
A/E:
Stone Group Architects
600 E 7th Street
Sioux Falls, SD 57103
605-271-1144
STONE GROUP ARCHITECTS

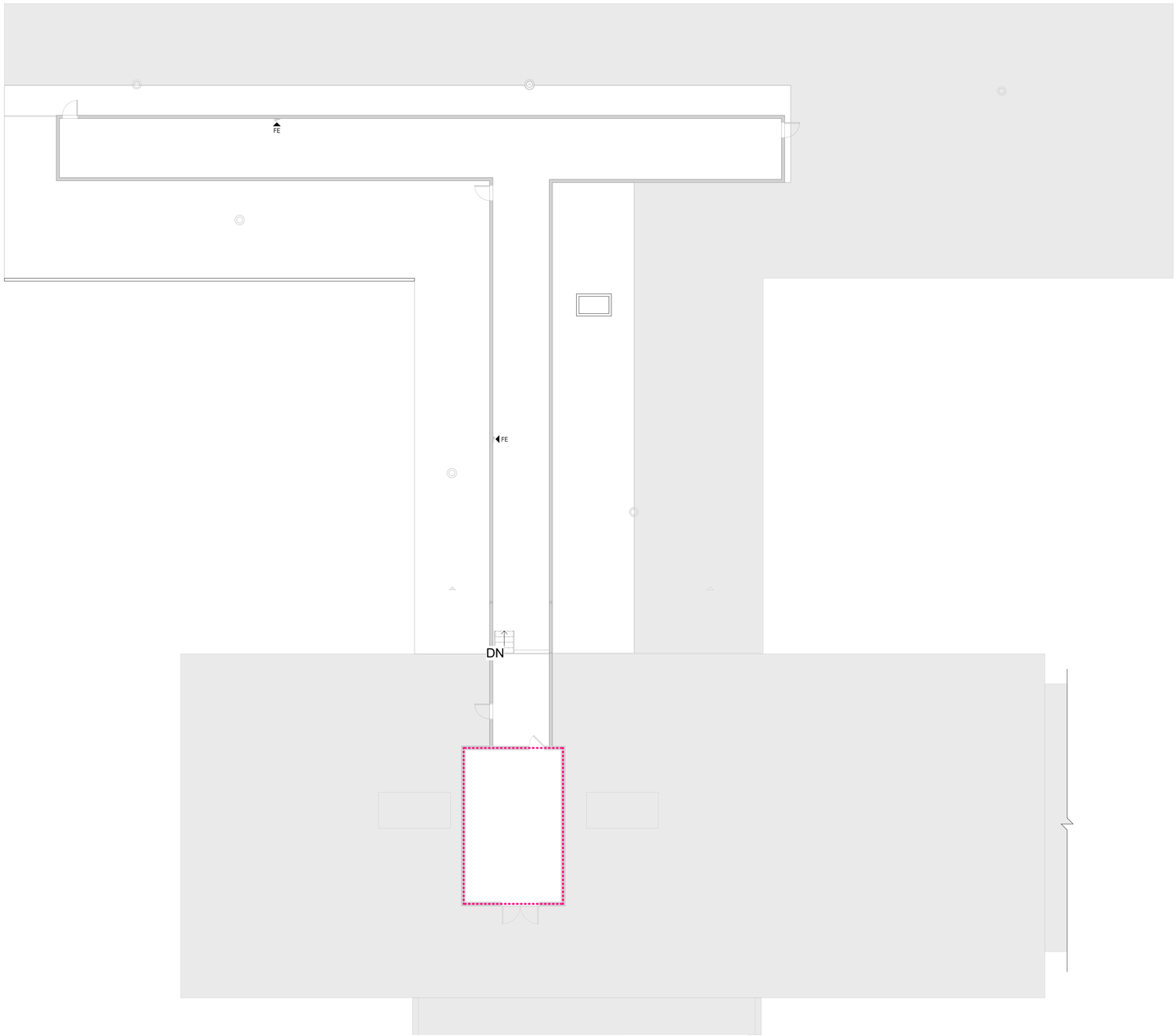
STAMP

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

Drawing Title	1ST LEVEL LIFE SAFETY PLAN
Phase	CONSTRUCTION DOCUMENTS
Project Title	VA FM UPGRADE MENTAL HEALTH LOCK WARD
Project Number	VA #568-20-102 SGA #211937
Building Number	148
Approved:	
	FULLY SPRINKLERED
Location	FORT MEADE, SOUTH DAKOTA
Issue Date	08/29/22
Checked	JHK
Drawn	RMV/DAN
Drawing Number	GI-003

C:_SGA Revit Local\211937 VA FM Upgrade MH Ward_jkreek.rvt
8/30/2022 7:39:36 AM
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

VA FORM 08 - 6231



NORTH

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

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 CODE SUMMARY

PROJECT: VA PROJECT #		FORT MEADE VAMC - UPGRADE MENTAL HEALTH LOCK WARD – BLDG 148 568-20-102
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: PLUMBING CODE: MECHANICAL CODE: ELECTRICAL CODE:		NFPA NATIONAL FIRE CODES WITH THE EXCEPTION OF NFPA 5000 AND NFPA 900 2021 INTERNATIONAL PLUMBING CODE 2021 INTERNATIONAL MECHANICAL 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 STORIES	160' (TABLE 503.4) 4 STORIES (TABLE 504.4) – 4 OR MORE STORIES (LSC TABLE 19.1.6.1)
ACTUAL HEIGHT:	FEET STORIES	13'-6" 1-STORY
ALLOWABLE FLOOR AREA:		UNLIMITED (SECTIONS 503 & 506, TABLE 506.2) N/A (NFPA 101)

ACTUAL FLOOR AREA:	BASEMENT	FIRST	SECOND
EXISTING REMODEL	0	14,803 SF	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 &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 IN. / PERSON
DOOR 0.2 IN. / 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 HAZERDOUS 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:
100 FT	200 FT	30 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, 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 (ABAAS) 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, 10 CFR PARTS 433, 434, AND 435.
- FEDERAL LEADERSHIP IN HIGH PERFORMANCE AND SUSTAINABLE BUILDINGS: MEMORANDUM OF UNDERSTANDING (MOU)
- EXECUTIVE ORDER 13423: STRENGTHENING FEDERAL ENVIRONMENT, ENERGY, AND TRANSPORTATION MANAGEMENT.
- THE PROVISIONS FOR CONSTRUCTION AND SAFETY SIGNS. STATED IN THE GENERAL REQUIRMENTS 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, A18.1
- STANDARDS FOR THE QUALIFICATION OF ELEVATOR INSPECTORS – ASME QUE-1
- GUIDE FOR INSPECTION OF ELEVATORS – A17.2
- AMERICAN SOCIETY OF SAFETY ENGINEERS (ASSE) – PERSONNEL HOISTS AND EMPLOYEE ELEVATORS ON CONSTRUCTION AND DEMOLITION OPERATIONS A10.4

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
FE	FIRE EXTINGUISHER
EX	EXIT
OCCUPANT LOAD 37 / MINIMUM DIR WIDTH 7.2" / DOOR WIDTH 50.0"	DOOR WIDTH

Revision#	Description	Date:

CONSULTANTS

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

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

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: 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

C:_SGA Revit Local\211937 VA FM Upgrade MH Ward_jesseklPWVE.rvt
8/30/2022 7:39:37 AM

VA FORM 08 - 6231

GENERAL STRUCTURAL NOTES

GENERAL NOTES:

1. 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.
2. 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.
3. 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.
4. 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.
5. 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.
6. 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 THOSE 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.
- AISI S100-16 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	43 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:

1. STEEL SHALL CONFORM TO ASTM A992 (Fy=50 KSI) FOR ALL W-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, GRADE B, TYPE "E" OR "S" (Fy=35 KSI).
2. STEEL SHALL CONFORM TO THE LATEST EDITION OF AISC SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS.
3. 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.
4. WELDS FOR ALL EXPOSED STRUCTURAL STEEL SHALL BE GROUND SMOOTH UNLESS NOTED OTHERWISE.
5. 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).
6. CONTRACTOR TO FURNISH AND INSTALL 500 LBS. OF ADDITIONAL MISCELLANEOUS STEEL TO BE USED AT ENGINEER'S DISCRETION.
7. 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.

SHEAR STUD CONNECTORS:

1. 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:

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

COLD FORMED LIGHT GAUGE STRUCTURAL STEEL:

1. STEEL STUD, TRACK, AND LINTEL MEMBERS SHALL BE OF THE TYPE SHOWN ON THE DRAWINGS AND IN THE SPECIFICATIONS AND SHALL CONFORM TO ASTM A653 STRUCTURAL QUALITY GRADE 33 FOR 18 GAUGE THICKNESS OR LESS, AND ASTM A653 STRUCTURAL QUALITY GRADE 50, CLASS 1 FOR 16 GAUGE OR GREATER. MEMBERS SHALL HAVE HOT DIPPED GALVANIZED COATING CONFORMING TO ASTM A924, CLASS G60.
2. METAL STUD AND JOIST MEMBERS SHALL CONFORM TO MINIMUM AISI SECTIONS.
3. 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.
4. 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.
5. 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.
6. STUDS SHALL SIT SQUARELY IN THE TOP AND BOTTOM RUNNER TRACK WITH ABUTMENT AGAINST TRACK WEBS. STUDS SHALL BE ALIGNED OR PLUMBED AND SECURELY FASTENED TO THE FLANGES OF BOTH TOP AND BOTTOM RUNNER TRACKS.
7. VERTICAL SLIP CONNECTORS TO ALLOW THE VERTICAL MOVEMENT OF THE SUPPORTING STRUCTURE RELATIVE TO THE STUD SHALL BE VERTICLIP SLAB 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:

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

SYMBOLS LEGEND

SHEAR WALL INDICATOR · PIER TAG CALLOUT INDICATOR · STEP TOP OF FOOTING IDENTIFIER · CUT SECTION INDICATOR

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) · PC SPAN IDENTIFIER

20GA TYPE 'W3' MTL DECK · DECK INDICATOR · EXT ELEVATION INDICATOR · DETAIL BUBBLE INDICATOR

COLUMN/FND GRID INDICATOR · SLAB JOINT INDICATOR · SECTION INDICATOR · ELEVATION INDICATOR

SCALE: FULL (0" 1/2" 1" 2")

DETAIL/SECTION/PLAN BLOCK TITLE INDICATOR

HOLD DOWN INDICATOR · CORNER REINF INDICATOR · MASONRY PIER INDICATOR · WALL REINFORCING INDICATOR · KEYNOTE IDENTIFIER

SLOPE INDICATOR · LINTEL INDICATOR · MOMENT INDICATOR · RAFTER INDICATOR · ROOF SLOPE INDICATOR

WORK POINT INDICATOR · ASTERISK INDICATOR · STEP INDICATOR · CONTINUOUS BEAM INDICATOR · STEP TOP OF WALL INDICATOR

STRUCTURAL HATCH PATTERNS

- NATIVE UNDISTURBED SOIL
- BACKFILL/FILL
- ENGINEERED FILL
- DRAINAGE COURSE
- CONCRETE
- BRICK
- WD- GLUED /LAMINATED
- PLYWOOD/OSB /PARTICLE BD
- GYPSUM BOARD
- WD- BLKG OR SHIM
- WOOD- CONTINUOUS FRAMING
- INSUL/FIRE SAFING
- CMU
- MORTAR
- GROUT
- RIGID INSULICF/SIP /EIFS SYSTEMS
- METAL FLOOR GRATING
- METALS
- CONC WALL HOLD DOWN (BLOCKOUT)
- ROUGH LOG WALL
- WOOD STUD BRG WALL
- STONE/ ROCK WALL
- PRECAST WALL

INDEX TO STRUCTURAL SHEETS

STRUCTURAL SHEET INDEX

SHT NO	SHEET NAME	FND PKG	FRMG PKG
S-001	STRUCTURAL GENERAL NOTES		
S-002	IBC INSPECTION TABLES		
S-003	WIND UPLIFT PLAN		
S-004	SNOW DRIFT PLAN		
S-101	EXISTING ROOF PLAN		
S-102	PENTHOUSE FRAMING PLAN		
S-501	DETAILS		
S-601	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.

SHEET IDENTIFICATION

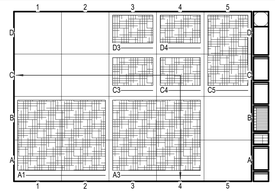
S - 5 0 1
A A N N N

DISCIPLINE CHARACTER · MODIFIER CHARACTER · SHEET SEQUENCE NUMBER 01-99 · SHEET TYPE DESIGNATOR

SHEET TYPE DESIGNATORS

0 GENERAL (SYMBOLS LEGEND, NOTES, ETC)
1 PLANS (HORIZONTAL VIEWS)
2 ELEVATIONS (VERTICAL VIEWS)
3 SECTIONS (SECTIONAL VIEWS)
4 LARGE SCALE VIEWS (PLANS, ELEV, OR SECTIONS, NOT DETAILS)
5 DETAILS
6 SCHEDULES AND DIAGRAMS
7 USER DEFINED
8 USER DEFINED
9 3D REPRESENTATIONS (ISOMETRICS, PERSPECTIVES, PHOTOGRAPHS)

COORDINATE SYSTEM



Revision#	Description	Date:

CONSULTANTS

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

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

ARCHITECT OF RECORD

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

STONE GROUP ARCHITECTS

STAMP

REGISTERED PROFESSIONAL ENGINEER · REG. NO. 6041 · DAVID L. PRYOR · SOUTH DAKOTA · 07/20/22

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title: STRUCTURAL GENERAL NOTES
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-001

C:\Users\jeff\Documents\21-354 S-MODEL (R20)_JeffB55S3K.rvt
8/18/2022 9:35:55 AM

VA FORM 08 - 6231

STEEL CONSTRUCTION

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 (WPSs) AVAILABLE	P	YES
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	P	YES
MATERIAL IDENTIFICATION (TYPE/GRADE)	O	YES
WELDER IDENTIFICATION SYSTEM[a]	O	YES
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) • JOINT PREPARATION • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION)	O	YES
FIT-UP OF CJP GROOVE WELDS OF HSS T-, Y- AND K-JOINTS WITHOUT BACKING • JOINT PREPARATIONS • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION)	P	YES
CONFIGURATION AND FINISH OF ACCESS HOLES	O	YES
FIT-UP OF FILLET WELDS • DIMENSIONS (ALIGNMENT, GAPS AT ROOT) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION)	O	YES
CHECK WELDING EQUIPMENT	O	-

[a] 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 • PACKAGING • EXPOSURE CONTROL	O	YES
NO WELDING OVER CRACKED TACK WELDS	O	YES
ENVIRONMENTAL CONDITIONS • WIND SPEED WITHIN LIMITS • PRECIPITATION AND TEMPERATURE	O	YES
WPS FOLLOWED • SETTINGS ON WELDING EQUIPMENT • TRAVEL SPEED • SELECTED WELDING MATERIALS • SHIELDING GAS TYPE/FLOW RATE • PREHEAT APPLIED • INTERPASS TEMPERATURE MAINTAINED (MIN/MAX) • PROPER POSITION (F, V, H, OH)	O	YES
WELDING TECHNIQUES • INTERPASS AND FINAL CLEANING • EACH PASS WITHIN PROFILE LIMITATIONS • EACH PASS MEETS QUALITY REQUIREMENTS	O	YES
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 • WELD/BASE-METAL FUSION • CRATER CROSS SECTION • WELD PROFILES • WELD SIZE • UNDERCUT • POROSITY	P	YES
ARC STRIKES	P	YES
k-AREA[a]	P	YES
WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES[b]	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

[a]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" (75 mm) OF THE WELD.

(b) 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.

AISC 360-16 TABLE N5.6-1
INSPECTION TASKS PRIOR TO BOLTING

INSPECTION TASKS PRIOR TO BOLTING	INSPECTION INTERVAL	REQUIRED ON PROJECT
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	O	YES
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	O	YES
CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO EXCLUDED FROM SHEAR PLANE)	O	YES
CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	O	YES
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	O	YES
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	P	YES
PROTECTED STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	O	YES

AISC 360-16 TABLE N5.6-2
INSPECTION TASKS DURING BOLTING

INSPECTION TASKS DURING BOLTING	INSPECTION INTERVAL	REQUIRED ON PROJECT
FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS AND NUTS ARE POSITIONED AS REQUIRED	O	YES
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	O	YES
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	O	YES
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROCESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	O	YES

AISC 360-16 TABLE N5.6-3
INSPECTION TASKS AFTER BOLTING

INSPECTION TASKS AFTER BOLTING	INSPECTION INTERVAL	REQUIRED ON PROJECT
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	P	YES

- O-OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.
- P-PERFORM THESE TASKS FOR EACH WELDED JOINT OR MEMBER.
- OBSERVATION OF WELDING OPERATIONS AND VISUAL INSPECTION OF IN-PROCESS AND COMPLETED WELDS SHALL BE THE PRIMARY METHOD TO CONFIRM THAT THE MATERIALS, PROCEDURES AND WORKMANSHIP ARE IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS.
- FOR STRUCTURES IN RISK CATEGORY III/IV (ASCE/SEI 7, TABLE 1.5-1), ULTRASONIC TESTING SHALL BE PERFORMED ON ALL COMPLETE-JOINT-PENETRATION GROOVE WELDS SUBJECT TO TRANSVERSELY APPLIED TENSION LOADING IN BUTT, T- AND CORNER JOINTS, IN MATERIALS 5/16" (8 MM) THICK OR GREATER.
- FOR STRUCTURES IN RISK CATEGORY II (ASCE/SEI 7, TABLE 1.5-1), ULTRASONIC TESTING SHALL BE PERFORMED ON 10% OF COMPLETE-JOINT-PENETRATION GROOVE WELDS SUBJECT TO TRANSVERSELY APPLIED TENSION LOADING IN BUTT, T- AND CORNER JOINTS, IN MATERIALS 5/16" (8 MM) THICK OR GREATER.
- ALL NONDESTRUCTIVE TESTING OF WELDED JOINTS SHALL BE DOCUMENTED.
- SEE AISC360-16 CHAPTER N FOR ADDITIONAL WELD INSPECTION REQUIREMENTS.
- SEE AISC360-16 CHAPTER N FOR ADDITIONAL BOLT INSPECTION REQUIREMENTS.
- EXPOSED CUT SURFACES OF GALVANIZED STRUCTURAL STEEL MAIN MEMBERS AND EXPOSED CORNERS OF RECTANGULAR HSS SHALL BE VISUALLY INSPECTED FOR CRACKS SUBSEQUENT TO GALVANIZING.
- INSPECTION SHALL OCCUR DURING THE PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS, INCLUDING DIAMETER, GRADE, TYPE AND LENGTH OF THE ANCHOR ROD OR EMBEDDED ITEM, AND THE EXTENT OR DEPTH OF EMBEDMENT INTO THE CONCRETE.
- FABRICATED STEEL AND ERECTED STEEL FRAMES, AS APPROPRIATE, SHALL BE INSPECTED FOR COMPLIANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION DOCUMENTS, INCLUDING BRACES, STIFFENERS, MEMBER LOCATIONS AND PROPER JOINT DETAIL APPLICATION.

STANDARD FOR QUALITY CONTROL AND QUALITY ASSURANCE FOR THE INSTALLATION OF STEEL DECK

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:

1. SPECIAL INSPECTION AND MINIMUM TESTING SHALL BE PERFORMED IN ACCORDANCE WITH 2018 IBC AND ALL REFERENCED MATERIALS AND TABLES.
2. 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.
3. ANY MATERIAL OR PLACEMENT DEVIATIONS FROM MINIMUMS SHOWN ON THE DRAWINGS OR IN SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
4. 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.
5. TESTING - ANY FAILED FIELD TEST SHALL BE REPORTED TO ALBERTSON ENGINEERING INC IMMEDIATELY.

Revision#	Description	Date:

CONSULTANTS

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

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

ARCHITECT OF RECORD

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

STONE GROUP ARCHITECTS

STAMP
REGISTERED PROFESSIONAL ENGINEER
REG. NO. 6041
DAVID L. DEL
07/20/22

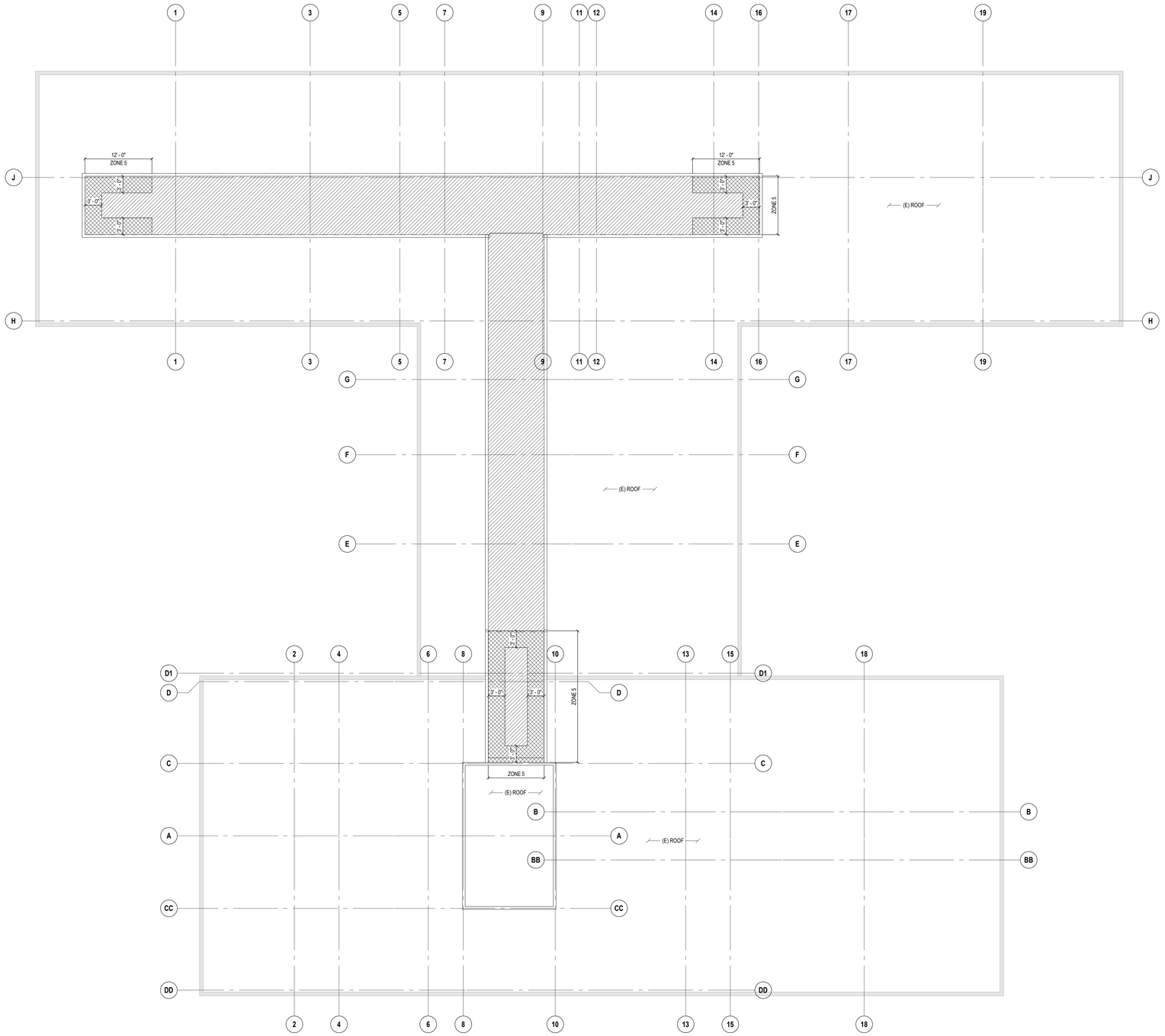
Office of Construction and Facilities Management

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
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-002

VA FORM 08 - 6231

C:\Users\jeff\Documents\21-354_S-MODEL (R20)_JeffBSS53K.rvt
8/19/2022 9:33:56 AM



1 S-003

WIND UPLIFT PLAN

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

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.

Revision#	Description	Date:

CONSULTANTS

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

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

ARCHITECT OF RECORD

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

STONE GROUP ARCHITECTS

STAMP
REGISTERED PROFESSIONAL ENGINEER
REG. NO. 6041
DAVID L. ALBERTSON
09/20/22
SOUTH DAKOTA

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
Project Number: VA #VA #568-20-102 SGA #211937
Building Number: 148
Drawing Number: S-003
Issue Date: 08/19/2022
Checked: DEL
Drawn: JAB

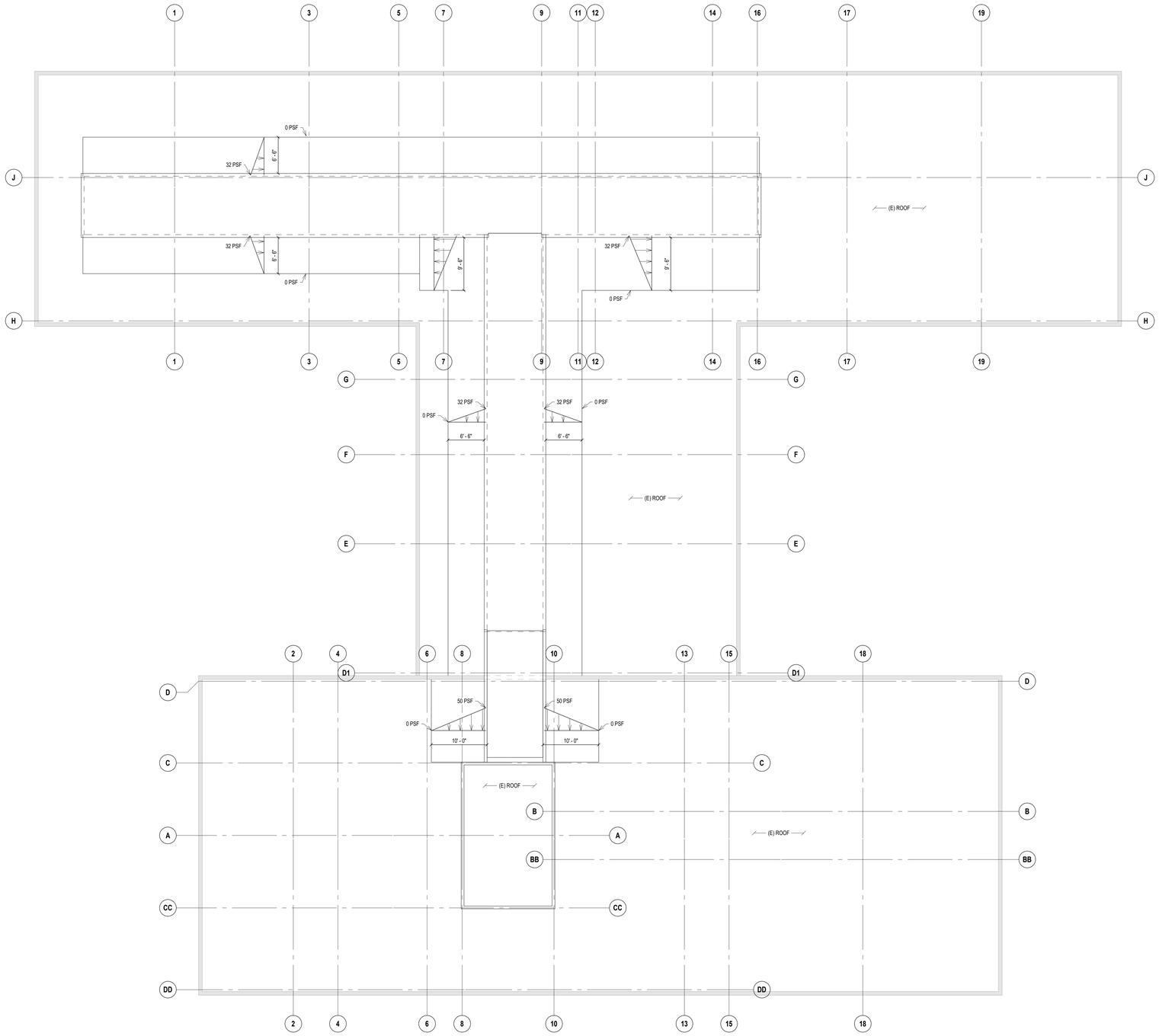
C:\Users\jeffb\Documents\21-354 S-MODEL (R20)_JeffB55S3K.rvt
8/18/2022 9:35:56 AM

VA FORM 08 - 6231

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.



1 S-004 **SNOW DRIFT PLAN**

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

Revision#	Description	Date:

CONSULTANTS

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

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

ARCHITECT OF RECORD

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

STONE GROUP ARCHITECTS

STAMP
REGISTERED PROFESSIONAL ENGINEER
REG. NO. 6041
DAVID L. EPPEL
09/20/22
SOUTH DAKOTA

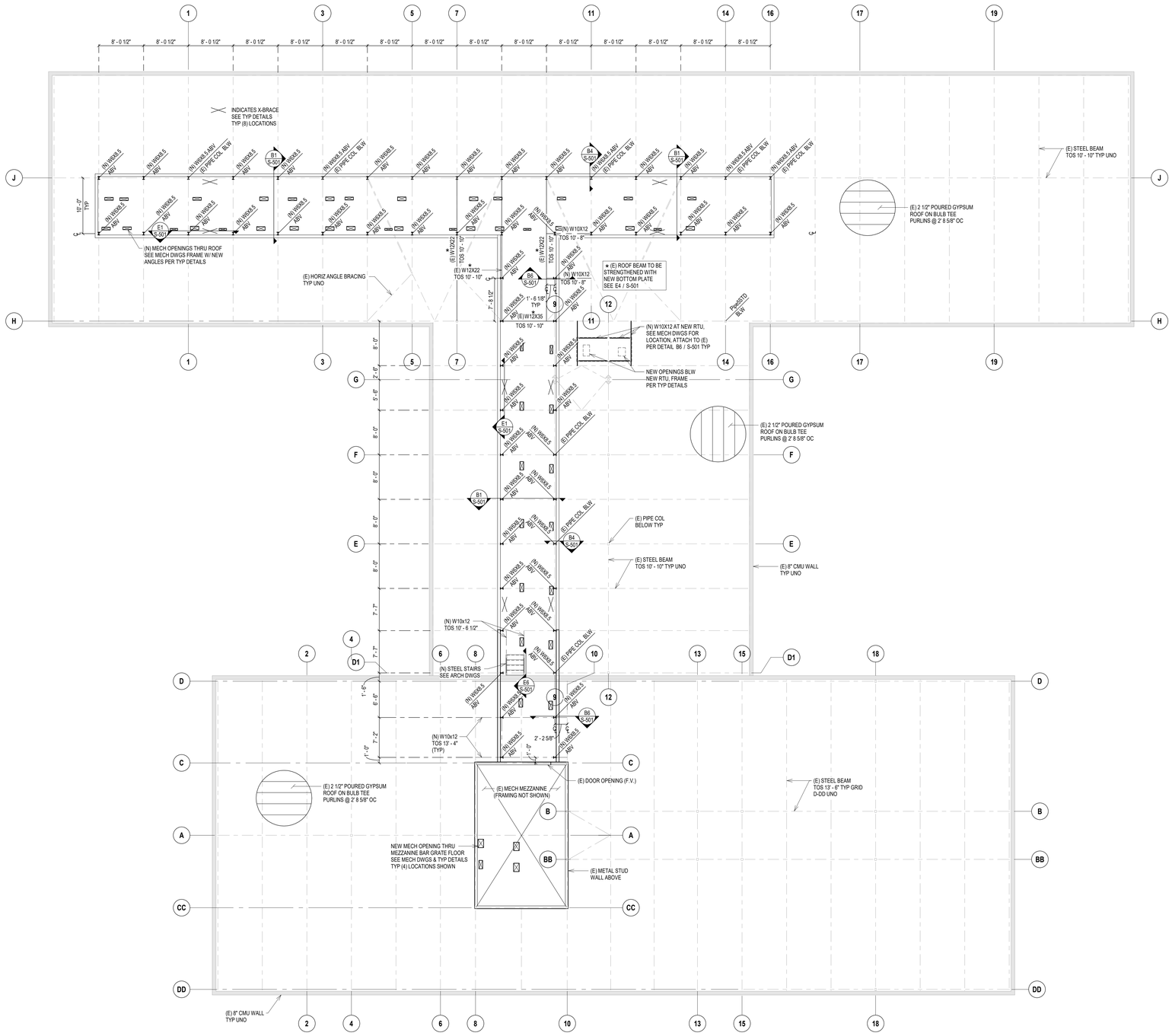
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: SNOW DRIFT 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-004

C:\Users\jeffb\Documents\21-354 S-MODEL R20_JeffB5653K.rvt
8/18/2022 9:35:57 AM

VA FORM 08 - 6231



1 S-101 EXISTING ROOF FRAMING PLAN

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

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' - 8 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 6" - 18 GAUGE METAL STUDS (600S162-43) @ 16" OC UNLESS OTHERWISE NOTED OR DETAILED. PROVIDE THE FOLLOWING MINIMUM HEADERS AND JAMBS AT OPENINGS:

CLEAR OPENINGS	HEADERS	JAMBS
LESS THAN 4' - 0"	(2) 6"-18GA	(1) JACK + (1) KING

- EXTERIOR WALLS SHALL BE SHEATHED WITH EXTERIOR GYPBOARD 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-501

SCHEDULES

Revision#	Description	Date:

CONSULTANTS

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

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

ARCHITECT OF RECORD

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

STAMP
REGISTERED PROFESSIONAL ENGINEER
REG. NO. 6041
DAVID E. EPPERLY
SOUTH DAKOTA
07/20/22

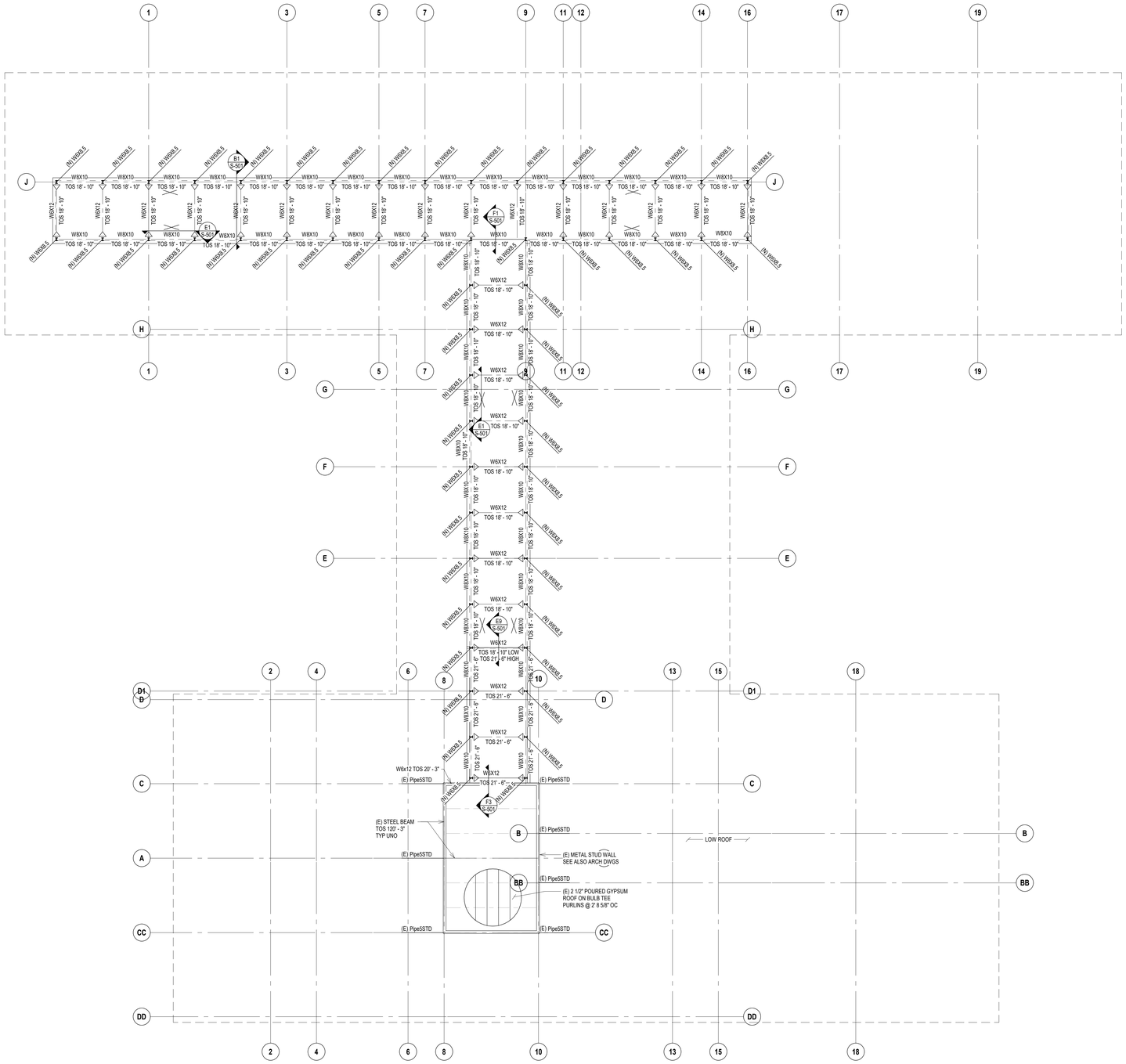
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	EXISTING ROOF PLAN
Approved:	
Phase	CONSTRUCTION DOCUMENTS
	FULLY SPRINKLERED
Project Title	VA FM UPGRADE MENTAL HEALTH LOCK WARD
Location	FORT MEADE, SOUTH DAKOTA
Issue Date	08/19/2022
Checked	DEL
Drawn	JAB
Project Number	VA #VA #568-20-102 SGA #211937
Building Number	148
Drawing Number	S-101

VA FORM 08 - 6231

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
8/19/2022 8:35:58 AM
C:\Users\jeffd\Documents\21-354-S-MODEL (R20)_JeffBS53X.rvt



SHEET NOTES

PENTHOUSE 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).
- TYPICAL METAL ROOF DECKING SHALL BE 3NL20GA PAINTED ROOF DECK. ATTACH TO SUPPORTS WITH #12 TEK SCREWS IN A SDI STANDARD PATTERN AS FOLLOWS:
  32/5 WITH (3) #10 TEK SIDELAP FASTENERS, UNO.
- UNLESS OTHERWISE NOTED OR DETAILED, ALL EAM TO COLUMN CONNECTIONS FOR W6 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-601 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 OD 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 ABOVE
SEE TYPICAL DETAILS AND B8 / S-501

SCHEDULES

TRUE NORTH N

1 / S-102

PENTHOUSE ROOF FRAMING PLAN

SCALE: 1/8" = 1'-0" REFERENCED FROM:

Revision#	Description	Date:

CONSULTANTS

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

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

ARCHITECT OF RECORD

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

STONE GROUP ARCHITECTS

STAMP

REGISTERED PROFESSIONAL ENGINEER
REG. NO. 6041
DAVID L. DEVOE
07/20/22

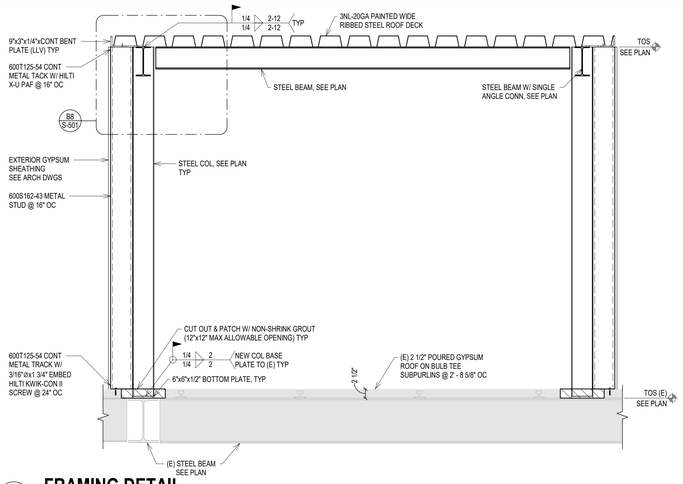
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PENTHOUSE FRAMING PLAN	Phase: CONSTRUCTION DOCUMENTS	Project Title: VA FM UPGRADE MENTAL HEALTH LOCK WARD	Project Number: VA #VA #568-20-102 SGA #211937
Approved:	FULLY SPRINKLERED	Location: FORT MEADE, SOUTH DAKOTA	Building Number: 148
		Issue Date: 08/19/2022 / Checked: DEL / Drawn: JAB	Drawing Number: S-102

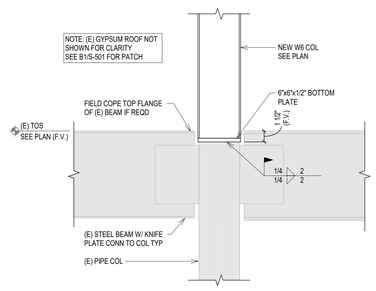
C:\Users\jeff\Documents\21-354 S-MODEL (R20)_JeffB5S53K.rvt
8/18/2022 9:35:59 AM

VA FORM 08 - 6231



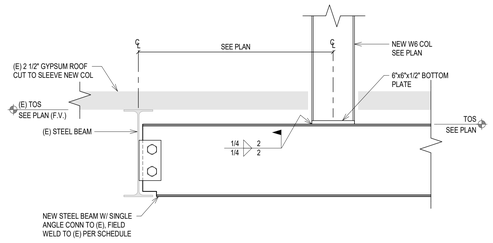
B1 S-501 **FRAMING DETAIL**

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



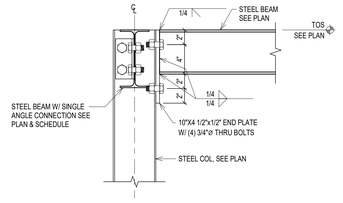
B4 S-501 **FRAMING DETAIL**

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



B6 S-501 **FRAMING DETAIL**

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

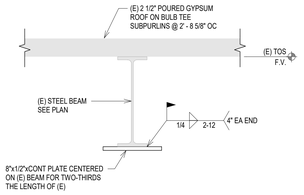


B8 S-501 **FRAMING DETAIL**

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

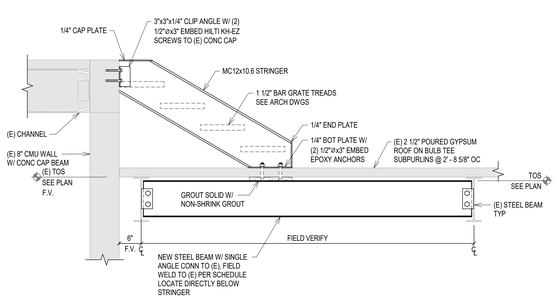
E1 S-501 **FRAMING DETAIL**

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



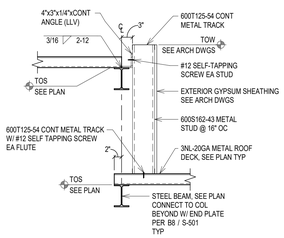
E4 S-501 **FRAMING DETAIL**

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



E6 S-501 **FRAMING DETAIL**

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



E9 S-501 **FRAMING DETAIL**

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

F1 S-501 **FRAMING DETAIL**

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

F3 S-501 **FRAMING DETAIL**

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

Revision#	Description	Date:

CONSULTANTS

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

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

ARCHITECT OF RECORD

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

STONE GROUP ARCHITECTS

STAMP

REGISTERED PROFESSIONAL ENGINEER REG. NO. 6041 DAVID J. TIPPET 07/20/22

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

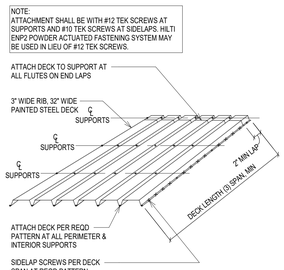
Building Number: 148

Drawing Number: S-501

C:\Users\jeffb\Documents\21-35d_S-MODEL_(R20)_JeffB5553K.rvt

8/18/2022 9:36:00 AM

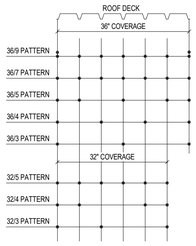
VA FORM 08 - 6231

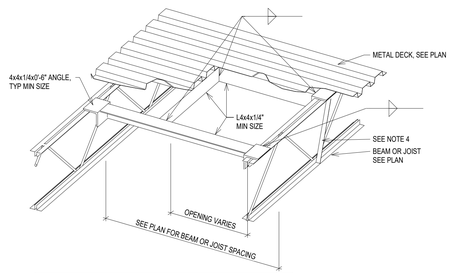


B1 S-601

TYP MTL DECK ATTACHMENT PATTERNS

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/I 3" OF JOIST PANEL POINT, ADD (2) ANGLES 1 1/4"x1 1/4"x1/4" FROM TAB LOCATION TO BOTTOM CHORD PANEL POINT, (1) EA SIDE OF JOIST, WELD INTO PLACE.

B4 S-601

TYP MTL DECK - OPENING

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

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)

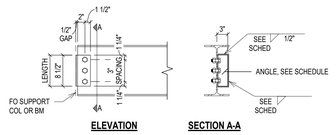
ADDITIONAL REMARKS:

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

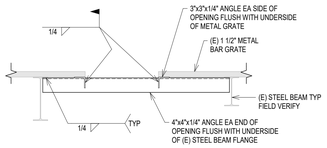
B6 S-601

SCHEDULE - SGL ANGLE CONNECTION

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



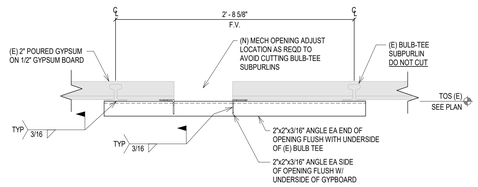
ELEVATION **SECTION A-A**



D1 S-601

TYP MECH OPENING THRU (E) BAR GRATE

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



D3 S-601

TYP MECH OPENING THRU (E) ROOF

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

Revision#	Description	Date:

CONSULTANTS

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

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

ARCHITECT OF RECORD

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

STONE GROUP ARCHITECTS

STAMP

REGISTERED PROFESSIONAL ENGINEER — REG. NO. 6041 — DAVID E. EPPERT — SOUTH DAKOTA — 07/20/22

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	TYPICAL 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 #569-20-102 SGA #211937
Building Number	148
Drawing Number	S-601

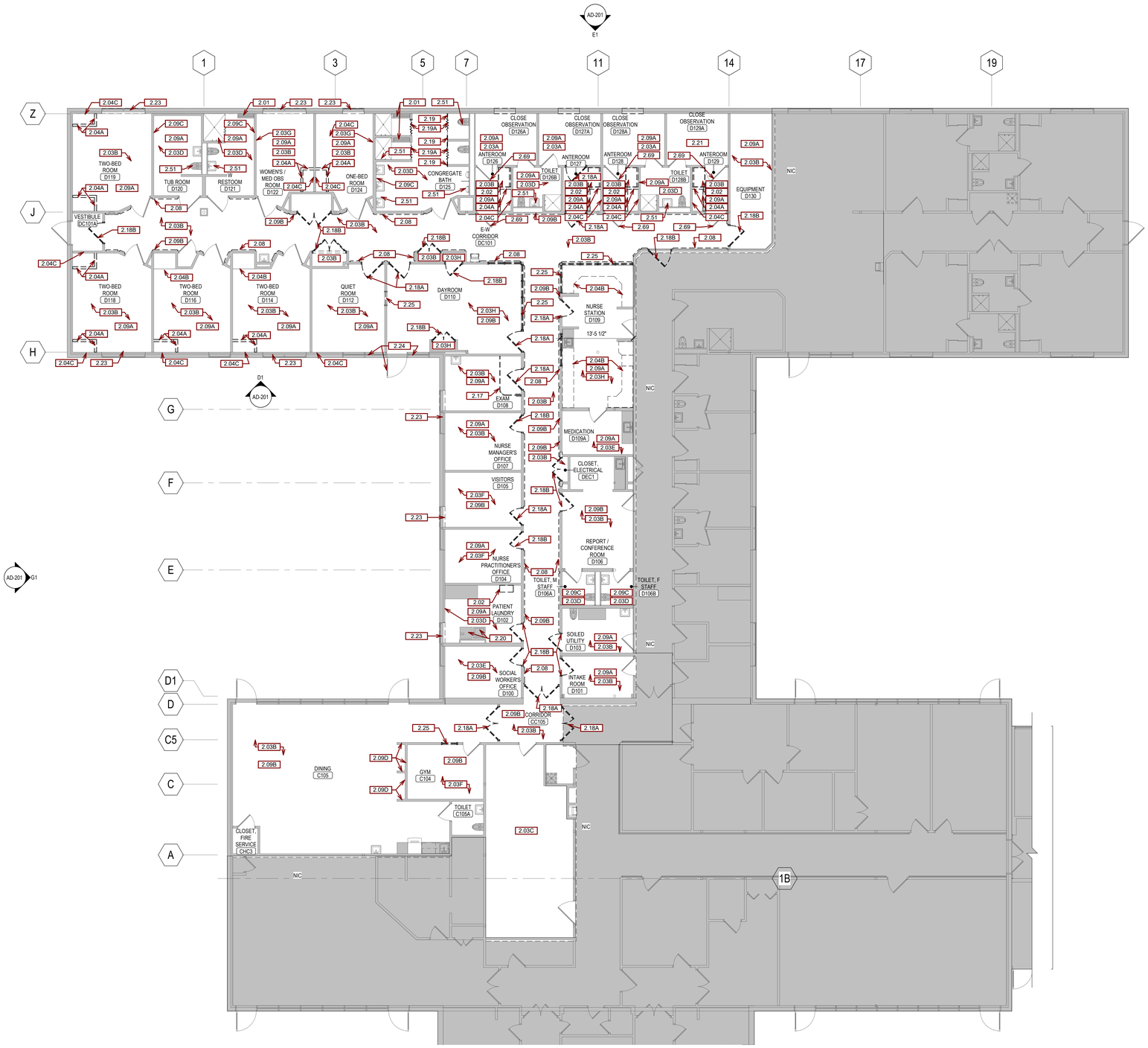
C:\Users\jeffb\Documents\21-354 S-MODEL (R20)_JeffB5553K.rvt

8/18/2022 9:36:01 AM

VA FORM 08 - 6231

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 CEILINGS 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 CASEWORK 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 LVF FLOORING AND BASE.
2.04A	REMOVE BUILT IN CABINETRY AND GYPSUM WALL COVE.
2.04B	REMOVE BUILT IN CABINETRY.
2.04C	REMOVE DRYWALL FOR BLOCKING INSTALLATION.
2.08	REMOVE ALL HANDRAILS, CRASH GUARDS, CORNER GUARDS AND WALL PROTECTION.
2.09A	PATCH, REPAIR AND PREP WALLS TO RECEIVE NEW FINISH.
2.09B	REMOVE WALL PAPER AND PREP WALLS TO RECEIVE NEW FINISH.
2.09C	REMOVE TILE FROM ALL WALLS. PREP TO RECEIVE NEW FINISH.
2.09D	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 RECIEVE NEW DOOR AND FRAME.
2.18B	REMOVE DOOR AND PREPARE FRAME TO RECIEVE NEW DOOR.
2.19	REMOVE PARTITION WALL PREPARE WALL TO RECIEVE 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.

NORTH

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

Revision#	Description	Date:

CONSULTANTS

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

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

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

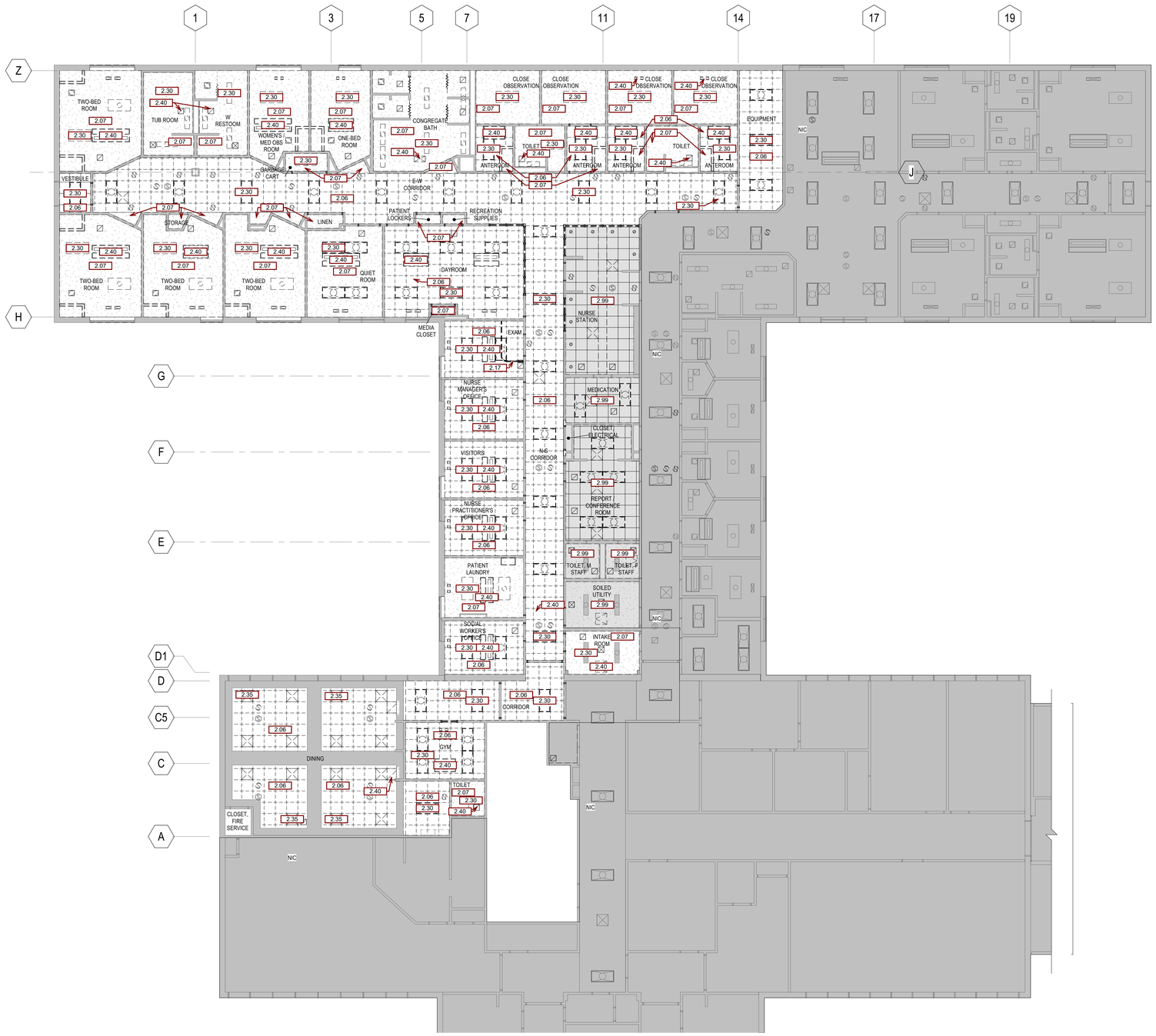
Drawing Title: 1ST LEVEL DEMOLITION PLAN - FLOOR PLAN
Approved:
Phase: CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED
Project Title: VA FM UPGRADE MENTAL HEALTH LOCK WARD
Location: FORT MEADE, SOUTH DAKOTA
Issue Date: 08/29/22
Checked: JHK
Drawn: RMV/DAN
Project Number: VA #568-20-102 SGA #211937
Building Number: 148
Drawing Number: AD-101

C:_SGA Revit Local\211937 VA FM Upgrade MH Ward_jreiek\UPWVE.rvt
8/30/2022 7:38:29 AM

VA FORM 08 - 6231

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 CEILINGS 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.



NORTH

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

SGA KEYNOTES

Key Value	Keynote Text
2.06	REMOVE ACOUSTICAL TILE CEILING AND SUPPORT RAILS. REMOVE EXISTING ELECTICAL AND TECHNOLOGY FIXTURES AND COORDINATE FOR REINSTALLATION OR REPLACEMENT. REF ELEC.
2.07	REMOVE GYPSUM CEILING AND FRAMING. REMOVE EXISTING ELECTICAL 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	SALVAGE LED LIGHT FIXTURES TO VA.
2.40	REMOVE ALL MECHANICAL EQUIP. REF MECH.
2.99	NO CEILING DEMO IN THIS ROOM.

Revision#	Description	Date:

CONSULTANTS

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

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

ARCHITECT OF RECORD

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

STONE GROUP ARCHITECTS

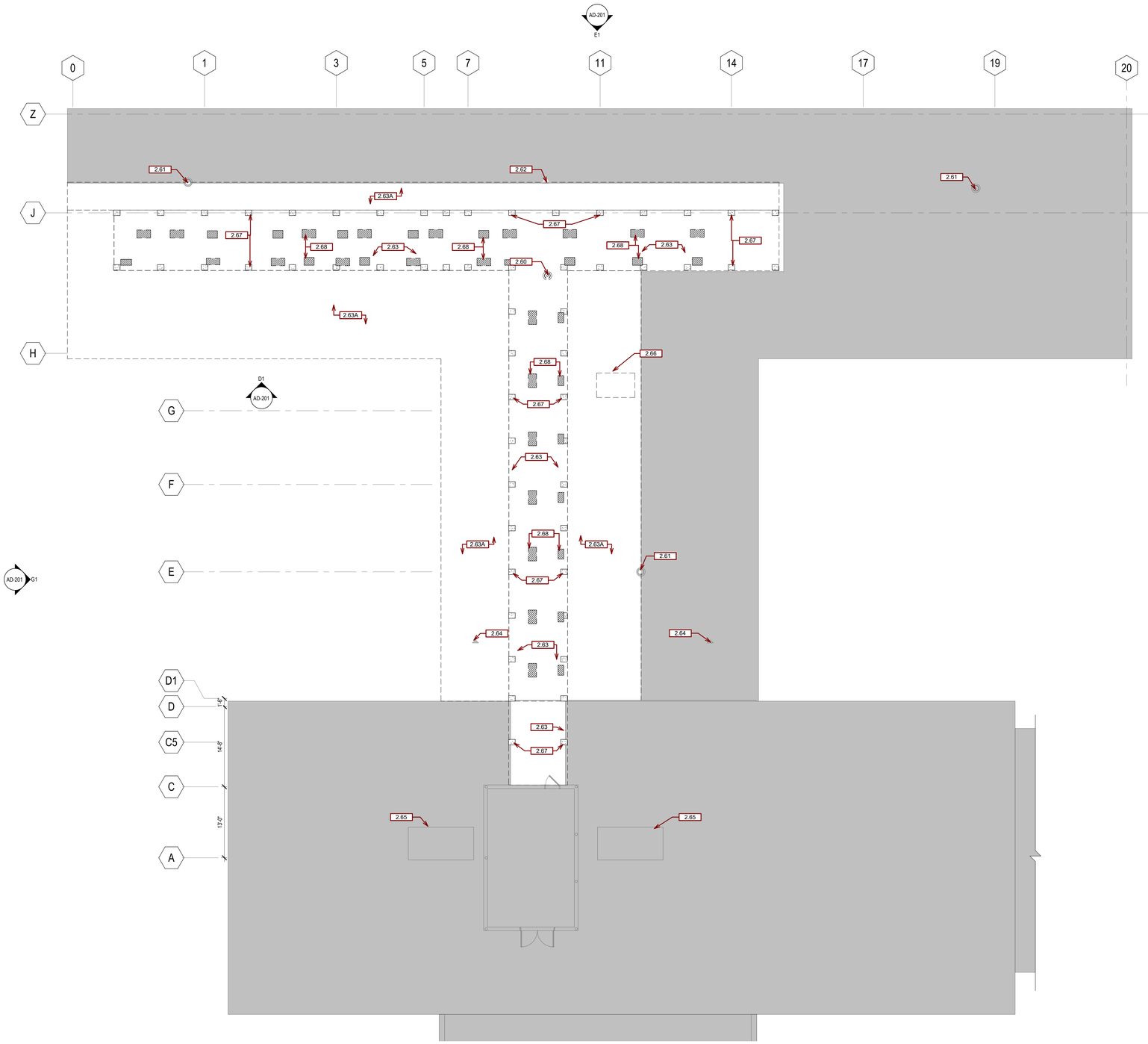
STAMP

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: 1ST LEVEL DEMOLITION PLAN - CEILING
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-102

C:\...SGA Revit Local\211937 VA FM Upgrade MH Ward_jeseek.LPXVE.rvt
8/30/2022 7:38:33 AM
VA FORM 08 - 6231



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 CEILINGS 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-TEE 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.

NORTH

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

Revision#	Description	Date:

CONSULTANTS

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

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

ARCHITECT OF RECORD

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

STONE GROUP ARCHITECTS

STAMP

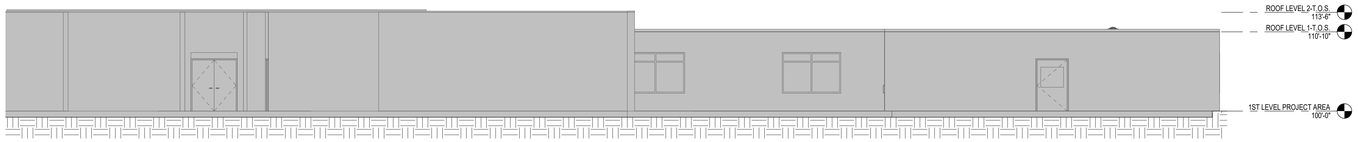
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

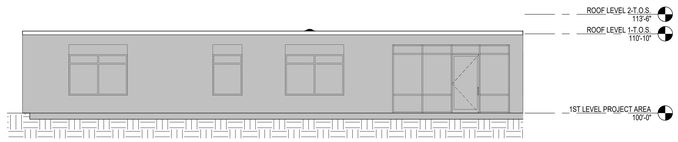
Drawing Title: DEMOLITION PLAN - ROOF
Approved:
Phase: CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED
Project Title: VA FM UPGRADE MENTAL HEALTH LOCK WARD
Location: FORT MEADE, SOUTH DAKOTA
Issue Date: 08/29/22
Checked: JHK
Drawn: RMV/DAN
Project Number: VA #568-20-102 SGA #211937
Building Number: 148
Drawing Number: AD-103

C:_SGA Revit Local\211937 VA FM Upgrade MH Ward_jesse4JPWE.rvt
8/30/2022 7:38:35 AM
VA FORM 08 - 6231

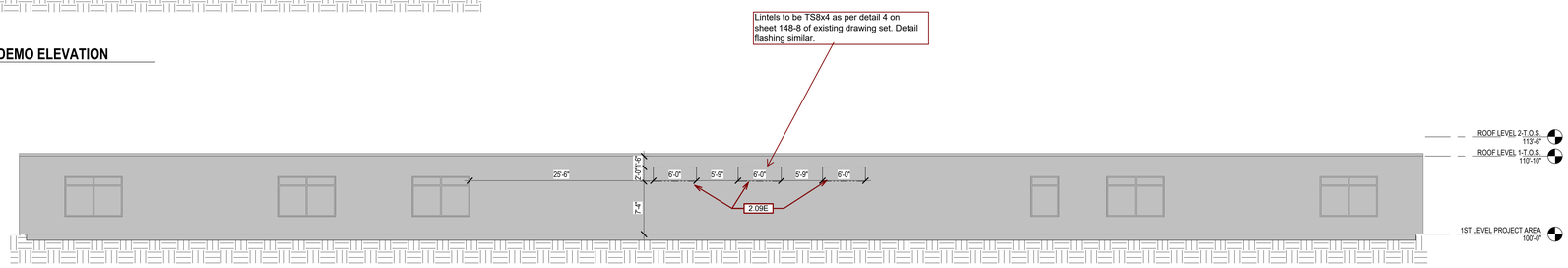
SGA KEYNOTES	
Key Value	Keynote Text
2.09E	DEMO EXISTING MASONRY WALL AND PREP FOR NEW WINDOW INSTALLATION.



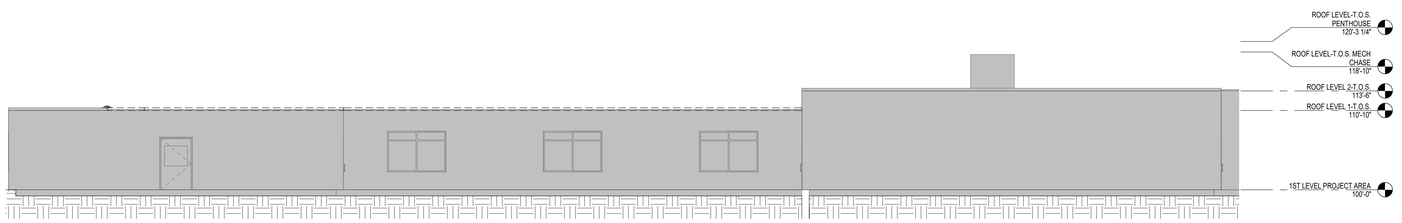
C1 SOUTH DEMO ELEVATION
1/8" = 1'-0"



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



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: 605-348-7455

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

ARCHITECT OF RECORD

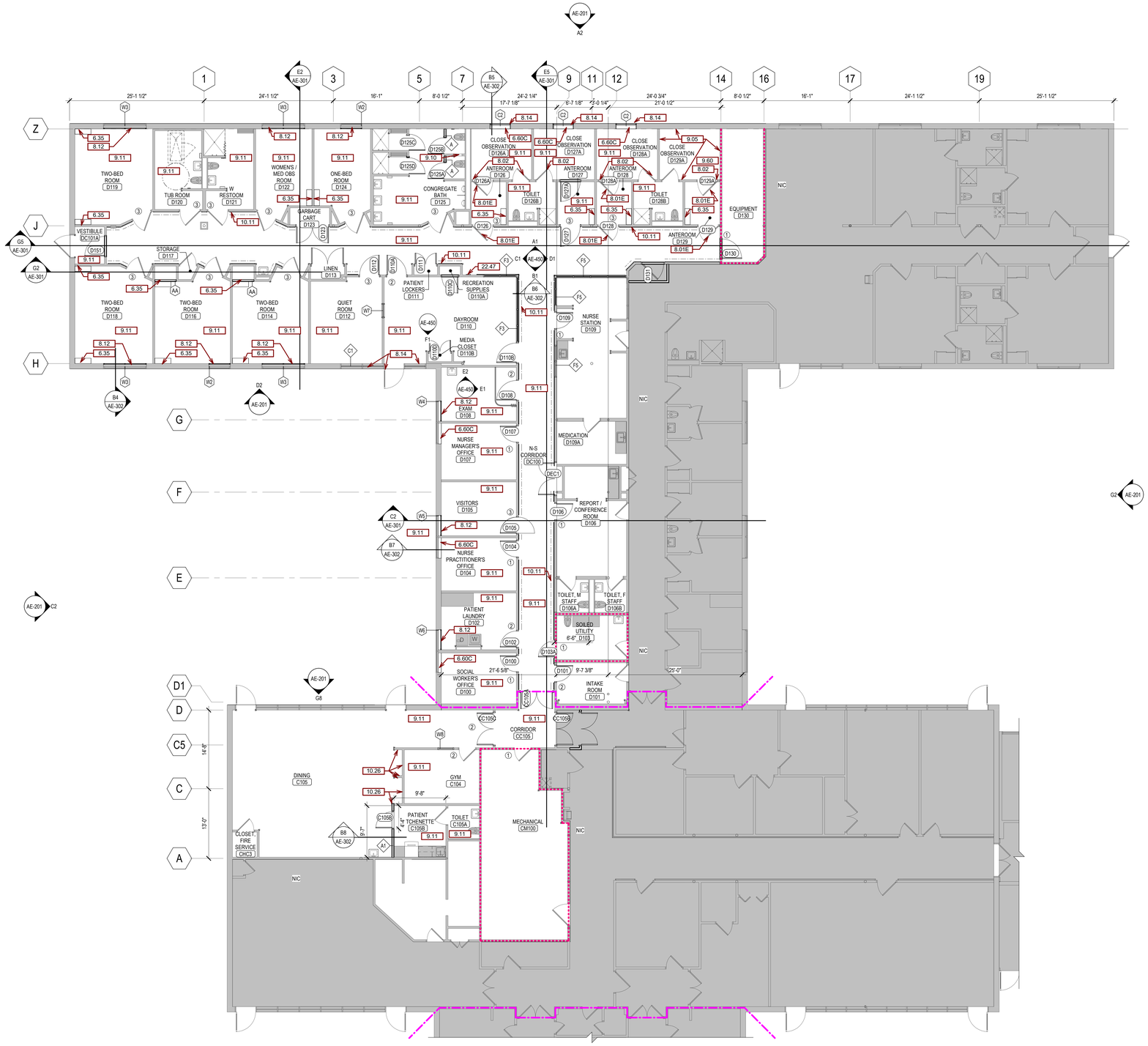
A/E:
Stone Group Architects
600 E 7th Street
Sioux Falls, SD 57103
605-271-1144
STONE GROUP ARCHITECTS

STAMP

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

Drawing Title: DEMOLITION ELEVATIONS	Phase: CONSTRUCTION DOCUMENTS	Project Title: VA FM UPGRADE MENTAL HEALTH LOCK WARD	Project Number: VA #568-20-102 SGA #211937
Approved:	FULLY SPRINKLERED	Location: FORT MEADE, SOUTH DAKOTA	Building Number: 148
		Issue Date: 08/29/22 / Checked: JHK / Drawn: RMV/DAN	Drawing Number: AD-201

C:_SGA Revit Local\211937 VA FM Upgrade MH Ward_jessekUPWVE.rvt
8/30/2022 7:38:37 AM
VA FORM 08 - 6231



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.
I. HEIGHT OF OPERATIONAL OR DISPENSING PORTION OF ACCESSORIES & FIXTURES NOT TO EXCEED 48" A.F.F. SEE SHEET G-002.
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.
N. FOR TILE FLOOR INSTALLATION: CONTRACTOR TO USE SCHLUTER PRODUCTS AS BASIS OF DESIGN FOR WATERPROOFING & KERDI & DITRA PRODUCTS AS APPLICABLE TO MANUFACTURER RECOMMENDATIONS.
O. REPAINT 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 ACCOMODATE TILE REMOVAL.
T. SAVE REMOVED SIGNAGE TO BE PUT BACK WHEN FINISHED.

SGA KEYNOTES

Key Value	Keynote Text
6.35	INSTALL BACKING SUPPORT FOR NEW VA SUPPLIED CABINET SYSTEM
6.60C	SLOPED SOLID SURFACE WDW 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 MENTAL 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.
10.26	WALL PROTECTION FULL WALL HEIGHT.
22.47	NEW WATER BOTTLE FILLER FOUNTAIN SEE SPECS AND MECH

WALL TYPES

A1 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/" 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
- FE — FIRE EXTINGUISHER
- EX — EXIT
- DOOR WIDTH (OCCUPANT LOAD 37; MINIMUM DIR WIDTH 7.2"; DOOR WIDTH 50.0")

G2 1ST LEVEL FLOOR PLAN

1/8" = 1'-0"

Revision#	Description	Date:

CONSULTANTS

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

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

ARCHITECT OF RECORD

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

STONE GROUP ARCHITECTS

STAMP

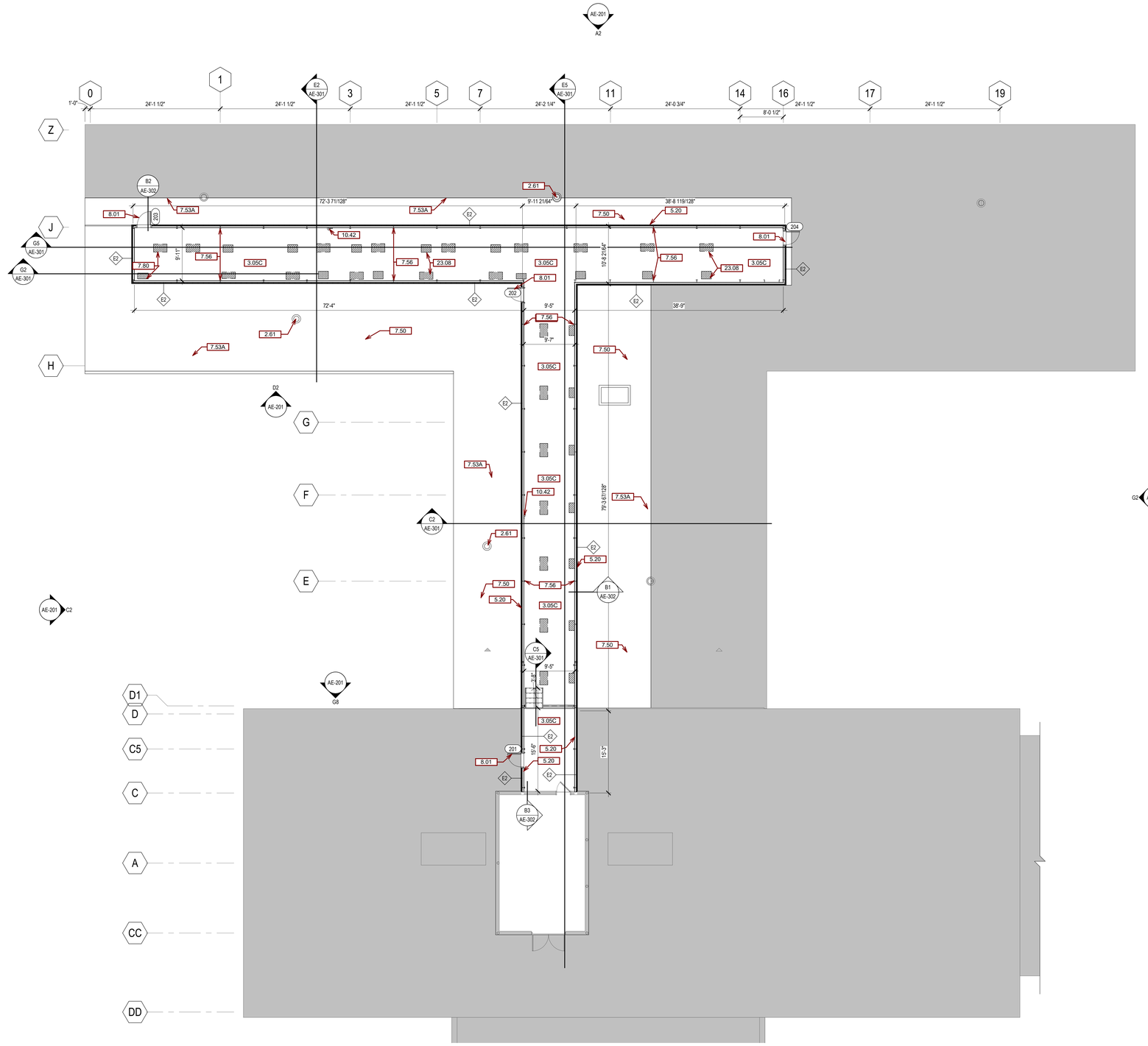
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	1ST LEVEL FLOOR PLAN & SCHEDULES
Phase	CONSTRUCTION DOCUMENTS
Project Title	VA FM UPGRADE MENTAL HEALTH LOCK WARD
Project Number	VA #568-20-102 SGA #211937
Building Number	148
Approved:	
	FULLY SPRINKLERED
Location	FORT MEADE, SOUTH DAKOTA
Issue Date	08/29/22
Checked	JHK
Drawn	RMV/DAN
Drawing Number	AE-101

C:_SGA Revit Local\211937 VA FM Upgrade MH Ward_jreiserkUPVVE.rvt
8/30/2022 7:38:44 AM

VA FORM 08 - 6231



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.
I. HEIGHT OF OPERATIONAL OR DISPENSING PORTION OF ACCESSORIES & FIXTURES NOT TO EXCEED 48" A.F.F. SEE SHEET G-002.
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.
N. FOR TILE FLOOR INSTALLATION: CONTRACTOR TO USE SCHLUTER PRODUCTS AS BASIS OF DESIGN FOR WATERPROOFING & KERDI & DITRA PRODUCTS AS APPLICABLE TO MANUFACTURER RECOMMENDATIONS.
O. REPAINT 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 ACCOMODATE TILE REMOVAL.
T. SAVE REMOVED SIGNAGE TO BE PUT BACK WHEN FINISHED.

SGA KEYNOTES	
Key Value	**Keynote Text**
2.61	REMOVE EXISTING ROOF DRAIN AND REPLACE WITH NEW DRAIN IN SAME LOCATION.
3.05C	INSTALL 5/8" STRUCTURAL GYPSUM PANEL OVER TOP OF EXISTING ROOF TO PROVIDE CLEAN DECK. SEAL ALL SEAMS WITH LIGHTWEIGHT GYPSUM LEVELING COMPOUND.
5.20	METAL PANEL MATCH EXISTING BUILDING COLOR
7.50	INSTALL NEW PVC ROOF MEMBRANE SYSTEM
7.53A	INSTALL POLYISO INSULATION (TAPERED 1/4" PER 12"). MATCH EXISTING INSULATION THICKNESS AT DRAIN.
7.56	INFILL AROUND COLUMN WITH NON-SHRINK GROUT, SEE STRUCTURAL.
7.80	INTALL FIRE STOPPING AROUND MECHANICAL PENETRATION.
8.01	DOOR - SEE SCHED.
10.42	WALL-MOUNTED FIRE EXTINGUISHER
23.08	NEW MECH PENETRATIONS, SEE MECH.

NORTH

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

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

Revision#	Description	Date:

CONSULTANTS

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

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

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: 2ND LEVEL 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: AE-102

C:_SGA Revit Local\211937 VA FM Upgrade MH Ward_jessekUPWVE.rvt
8/30/2022 7:38:46 AM

VA FORM 08 - 6231

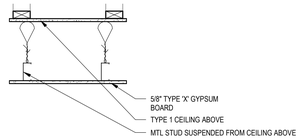
GENERAL RCP NOTES:

A. 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.
B. ALL ITEMS INSTALLED IN CEILINGS ARE TO BE CENTERED AND /OR SYMMETRICAL ON THE CENTERLINE OF ROOMS AND CENTERED IN TILES.
C. INSTALL ALL WALL MOUNTED EXIT SIGNS AND OTHER FIXTURES CENTERED ABOVE OPENINGS WHERE POSSIBLE.
D. 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.
E. GYPSUM USED IN RESTROOM AND OTHER AREAS EXPOSED TO MOISTURE SHALL BE WATER RESISTANT GYPSUM BOARD.
F. PAINT HORIZONTAL AND VERTICAL FACES OF THE SOFFITS SPECIFIED PAINT COLOR, UNLESS NOTED OTHERWISE.
G. ALL BULKHEAD HORIZONTAL AND VERTICAL FACES TO BE PAINTED PT-4, UNLESS NOTED OTHERWISE.
H. ALL GYPSUM BOARD CEILINGS TO BE PAINTED PT-4, UNLESS OTHERWISE NOTED.
I. ALL BULKHEADS TO EXTEND PAST ADJACENT CEILING HEIGHT 2" UNLESS OTHERWISE NOTED.
J. AT RCP SECTIONS REFER TO REFLECTED CEILING PLAN FOR CEILING/SOFFIT ELEVATIONS.

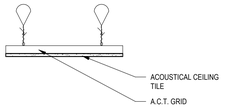
SGA KEYNOTES	
Key Value	Keynote Text
8.04A	2'x2' ACCESS PANEL FOR DOOR ALARM
8.04C	18"x18" ACCESS PANEL FOR DOOR ALARM
9.10	FILL, PATCH, AND NEW FINISH FOR OPENING IN WALL
9.20	GYPSUM CEILNG BOARD
9.21	GYPSUM CEILING BOARD TO BE FLUSH WITH TOP OF LOCKERS.

CEILING TYPES

TYPE 1:



TYPE 2:



G2 1ST LEVEL_REFLECTED CEILING PLAN

1/8" = 1'-0"

Revision#	Description	Date:

CONSULTANTS

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

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

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: 1ST FLOOR REFLECTED CEILING 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

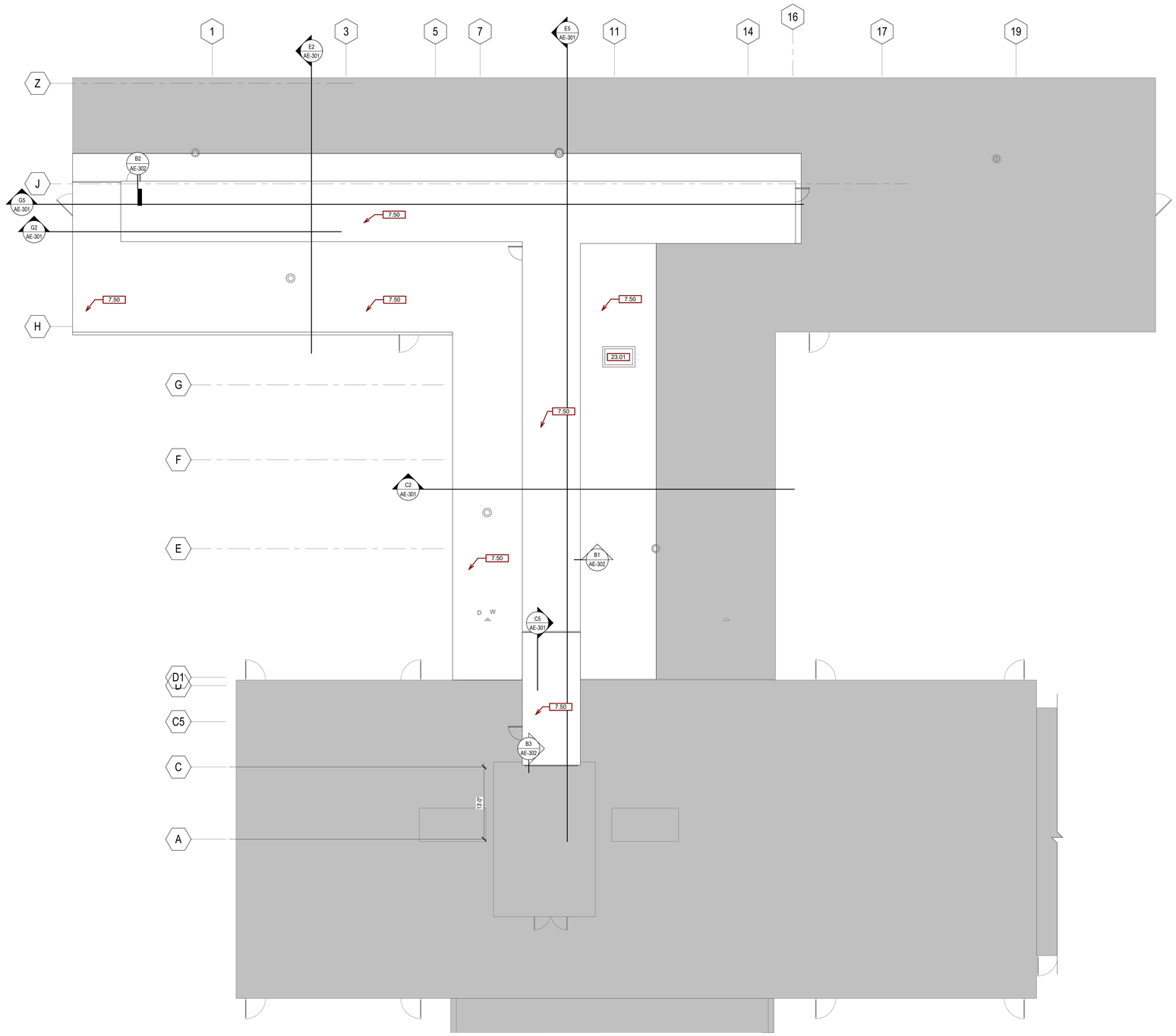
Building Number: 148

Drawing Number: AE-110

C:\..SGA Revit Local\211937 VA FM Upgrade MH Ward_jessek.rvt 8/30/2022 7:38:52 AM

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 @ 1/300 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.



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

SGA KEYNOTES	
Key Value	Keynote Text
7.50	INSTALL NEW PVC ROOF MEMBRANE SYSTEM
23.01	MECH ELEMENT ON 8" ROOF CURB - SEE MECH DRAWINGS.

Revision#	Description	Date:

CONSULTANTS

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

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

ARCHITECT OF RECORD

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

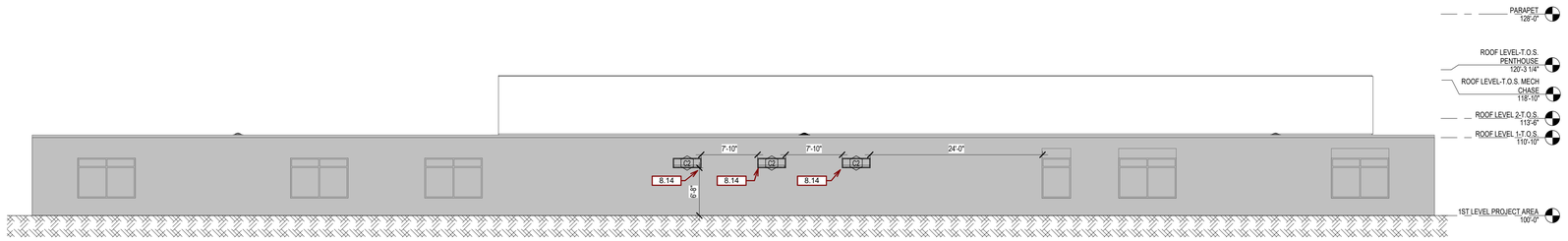
STONE GROUP ARCHITECTS

STAMP

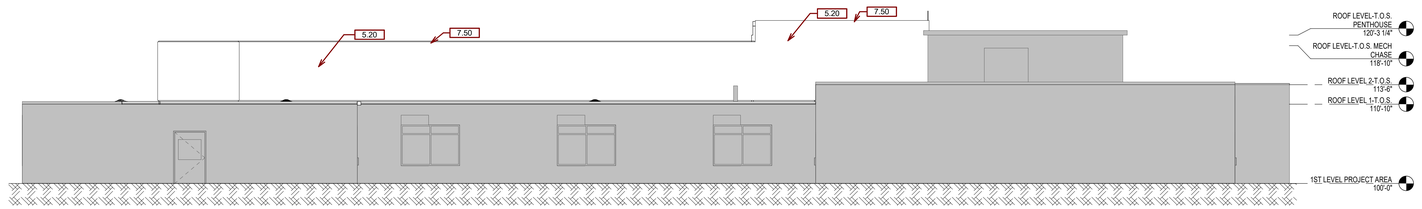
Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: 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

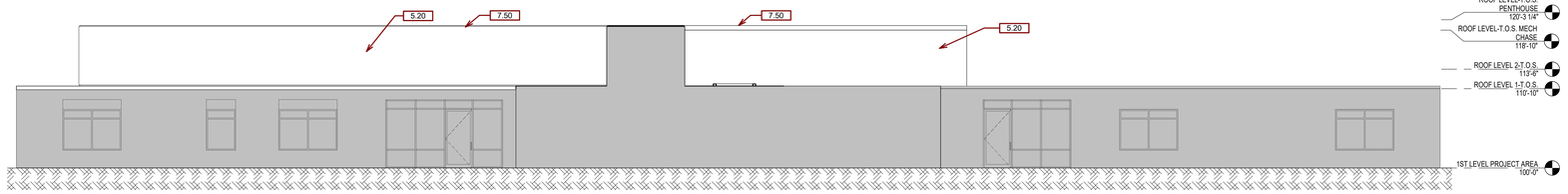
C:\..SGA Revit Local\211937 VA FM Upgrade MH Ward_jjessek\FMVE.rvt
8/30/2022 7:38:55 AM
VA FORM 08 - 6231



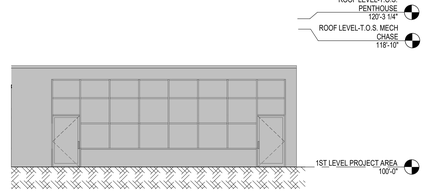
A2 **WEST ELEVATION - WEST WING**
1/8" = 1'-0"



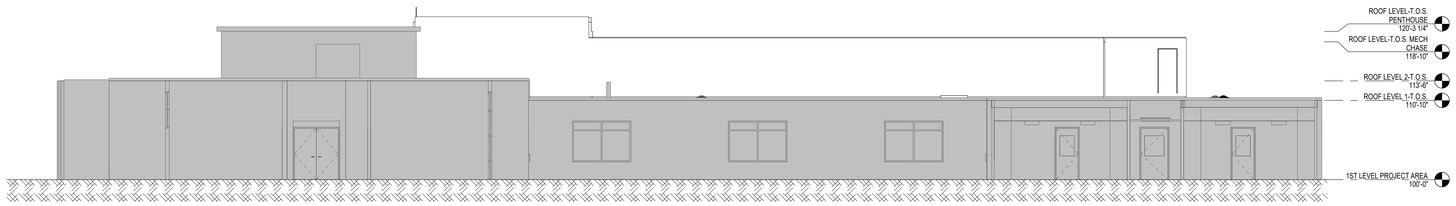
C2 **SOUTH ELEVATION**
1/8" = 1'-0"



D2 **EAST ELEVATION - WEST WING**
1/8" = 1'-0"



G8 **WEST ELEVATION - EAST WING**
1/8" = 1'-0"



G2 **NORTH ELEVATION**
1/8" = 1'-0"

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.
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. GYPSUM USED IN RESTROOMS SHALL BE WATER RESISTANT GYPSUM BOARD. USE DURAROCK @ ALL PORCELAIN & CERAMIC TILE LOCATIONS.
I. PROVIDE ADA COMPLIANT SIGNAGE FOR ALL REQUIRED AREAS, ROOMS, & ACCESSIBLE PATHS.
J. 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.

Revision#	Description	Date:

CONSULTANTS

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

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

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

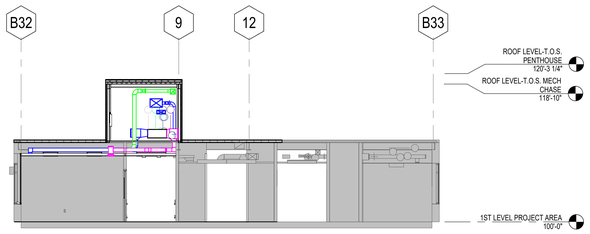
Drawing Title: ELEVATIONS
Approved:
Phase: CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED
Project Title: VA FM UPGRADE MENTAL HEALTH LOCK WARD
Location: FORT MEADE, SOUTH DAKOTA
Issue Date: 08/29/22
Checked: JHK
Drawn: RMV/DAN
Project Number: VA #568-20-102 SGA #211937
Building Number: 148
Drawing Number: AE-201

C:\..SGA Revit Local\211937 VA FM Upgrade MH Ward_jjessels\FPWVE.rvt
8/30/2022 7:38:59 AM
VA FORM 08 - 6231

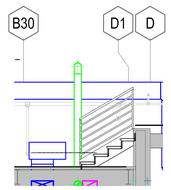
GENERAL SECTION NOTES:

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.
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. GYPSUM USED IN RESTROOMS SHALL BE WATER RESISTANT GYPSUM BOARD. USE DUROROCK @ ALL PORCELAIN & CERAMIC TILE LOCATIONS.
I. PROVIDE ADA COMPLIANT SIGNAGE FOR ALL REQUIRED AREAS, ROOMS, & ACCESSIBLE PATHS.
J. K. HEIGHT OF OPERATIONAL OR DISPENSING PORTION OF ACCESSORIES & FIXTURES NOT TO EXCEED 48" A.F.F.

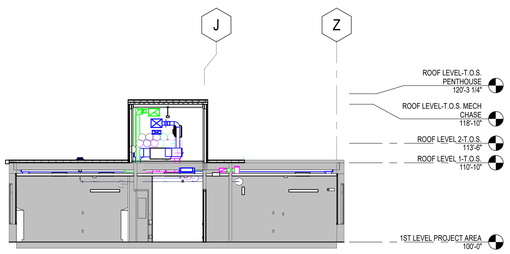
SGA KEYNOTES	
Key Value	Keynote Text



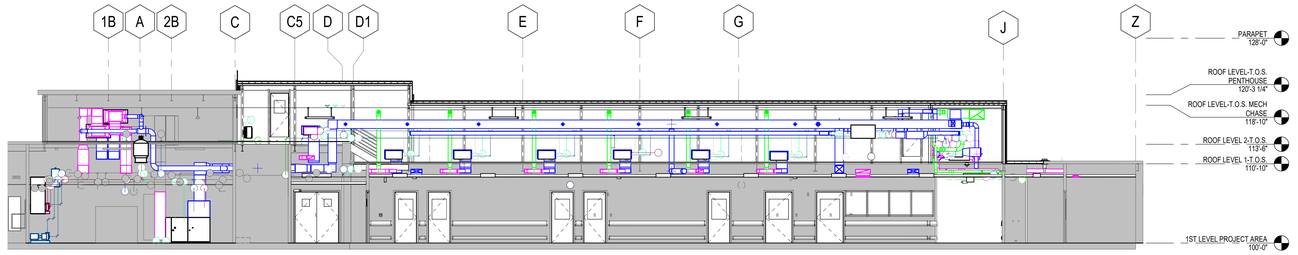
C2 BUILDING SECTION - MECHANICAL CONNECTION
1/8" = 1'-0"



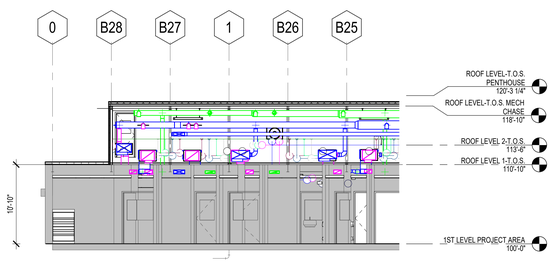
C5 SECTION - PENTHOUSE STEP DOWN STAIR
1/4" = 1'-0"



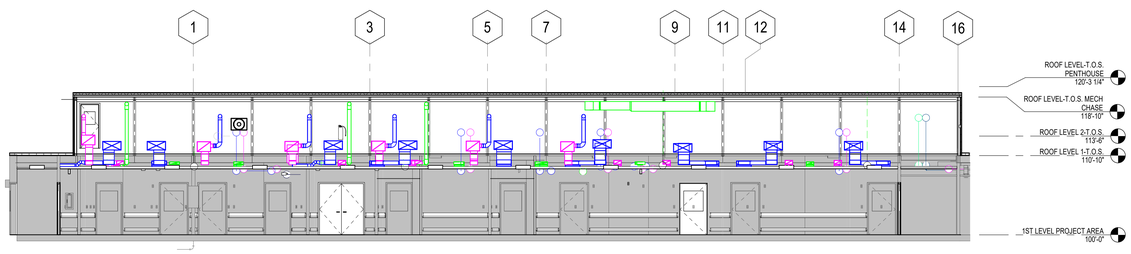
E2 BUILDING SECTION - MECHANICAL SECOND FLOOR
1/8" = 1'-0"



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



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



G5 BUILDING SECTION - MECHANICAL DOWN CORRIDOR ON ROOF
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: 605-348-7455

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

ARCHITECT OF RECORD

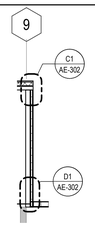
A/E:
Stone Group Architects
600 E 7th Street
Sioux Falls, SD 57103
605-271-1144
STONE GROUP ARCHITECTS

STAMP

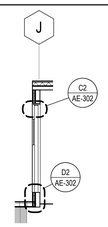
Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: 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
Checked: JHK
Drawn: RMV/DAN
Project Number: VA #568-20-102 SGA #211937
Building Number: 148
Drawing Number: AE-301

C:_SGA Revit Local\211937 VA FM Upgrade MH Ward_jessek.rvt
8/30/2022 7:39:05 AM
VA FORM 08 - 6231

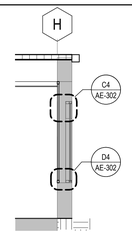


B1 WALL SECTION -IMP 4" MEETS ROOF CURB
1/4" = 1'-0"

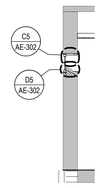


B2 WALL SECTION -IMP 4" WALL WITH DOOR
1/4" = 1'-0"

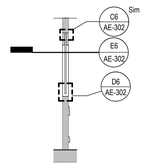
B3 WALL SECTION - PENTHOUSE CONNECTION
1/4" = 1'-0"



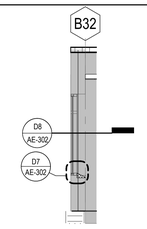
B4 WALL SECTION - WAUSAU INTERIOR WINDOW
1/4" = 1'-0"



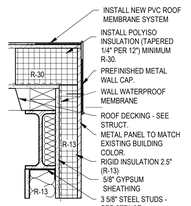
B5 WALL SECTION - CLOSED OBSERVATION WINDOW
1/4" = 1'-0"



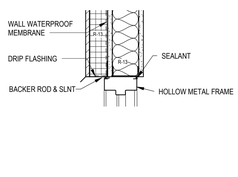
B6 WALL SECTION - DAY ROOM WINDOW
1/4" = 1'-0"



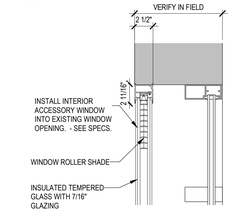
B7 WALL SECTION -NURSE PRACTITIONER'S OFFICE D104 WND
1/4" = 1'-0"



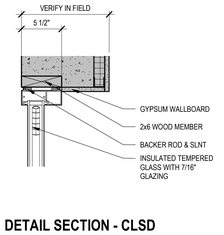
C1 DETAIL SECTION - PENTHOUSE ROOF TO WALL
1 1/2" = 1'-0"



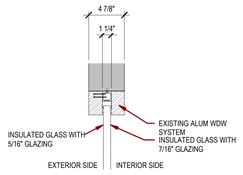
C2 DETAIL SECTION - PENTHOUSE WALL DOOR HEAD
1 1/2" = 1'-0"



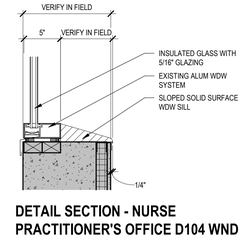
C4 DETAIL SECTION - WAUSAU WND HEAD
1 1/2" = 1'-0"



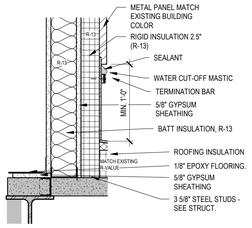
C5 DETAIL SECTION - CLSD OBSERVATION RM WDW HEAD
1 1/2" = 1'-0"



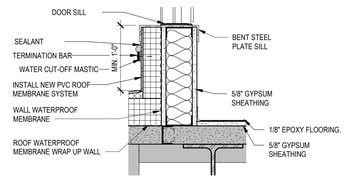
C6 DETAIL SECTION - DAY ROOM WDW REPLACEMENT
1 1/2" = 1'-0"



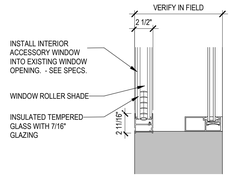
D7 DETAIL SECTION - NURSE PRACTITIONER'S OFFICE D104 WND SILL
1 1/2" = 1'-0"



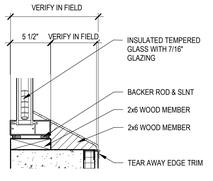
D1 DETAIL SECTION - PENTHOUSE WALL TO EXISTING ROOF
1 1/2" = 1'-0"



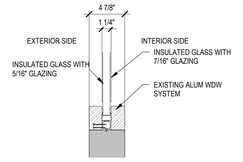
D2 DETAIL SECTION - PENTHOUSE WALL DOOR THRESHOLD
1 1/2" = 1'-0"



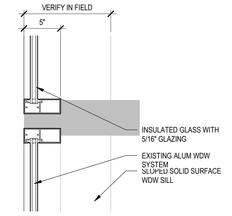
D4 DETAIL SECTION - WAUSAU WND SILL
1 1/2" = 1'-0"



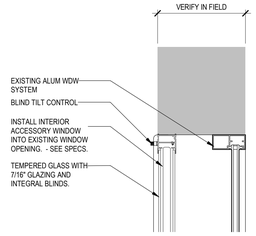
D5 DETAIL SECTION - CLSD OBSERVATION WDW SILL
1 1/2" = 1'-0"



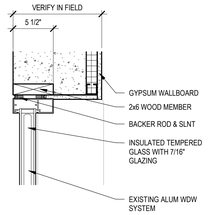
D6 DETAIL SECTION - DAY ROOM WDW SILL
1 1/2" = 1'-0"



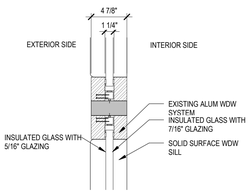
D8 PLAN DETAIL - NURSE PRACTITIONER'S OFFICE D104 WND
1 1/2" = 1'-0"



E4 PLAN DETAIL - 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"

Revision#	Description	Date:

CONSULTANTS

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

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

ARCHITECT OF RECORD

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

STONE GROUP ARCHITECTS

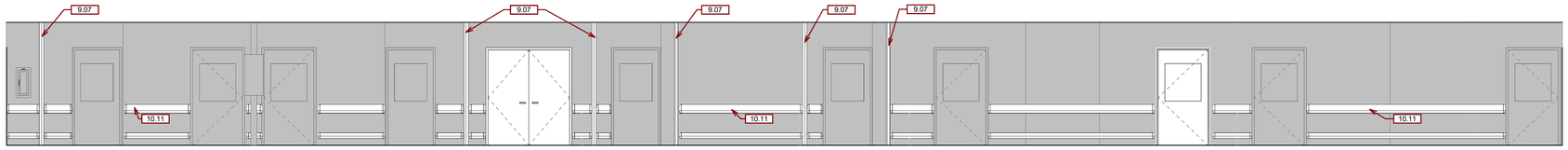
STAMP

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

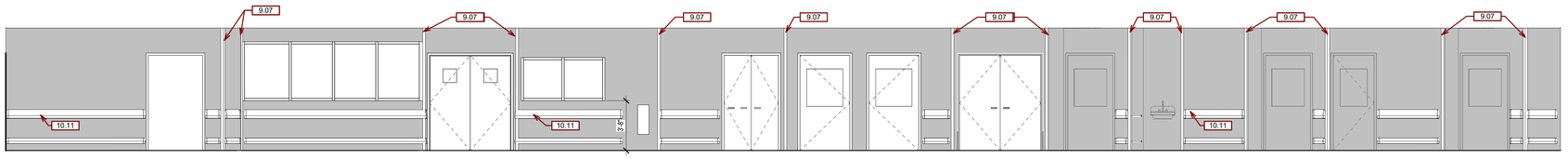
Drawing Title: WALL SECTIONS & DETAILS
Approved:
Phase: CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED
Project Title: VA FM UPGRADE MENTAL HEALTH LOCK WARD
Location: FORT MEADE, SOUTH DAKOTA
Issue Date: 08/29/22
Checked: JHK
Drawn: RMV/DAN
Project Number: VA #568-20-102 SGA #211937
Building Number: 148
Drawing Number: AE-302

C:_SGA Revit Local\211937 VA FM Upgrade MH Ward_jesenkLPWVE.rvt
8/30/2022 7:39:10 AM
VA FORM 08 - 6231



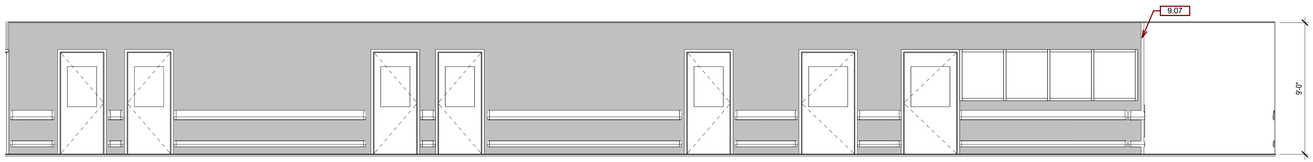
ELEVATION - NORTH CORRIDOR NORTH SIDE

A1 1/4" = 1'-0"



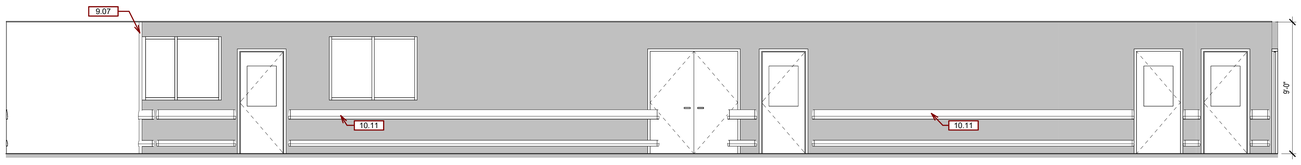
ELEVATION - NORTH CORRIDOR SOUTH SIDE

B1 1/4" = 1'-0"



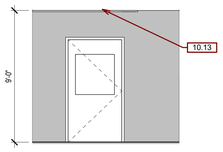
ELEVATION - MIDDLE CORRIDOR LEFT SIDE

C1 1/4" = 1'-0"



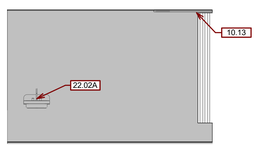
ELEVATION - MIDDLE CORRIDOR RIGHT SIDE

D1 1/4" = 1'-0"



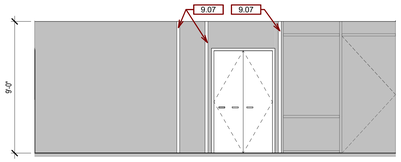
ELEVATION - EXAM ROOM DOOR AND PRIVACY CURTAIN

E1 1/4" = 1'-0"



ELEVATION - EXAM ROOM SINK AND PRIVACY CURTAIN

E2 1/4" = 1'-0"



ELEVATION - DAY ROOM MEDIA CLOSET AND EXIT

F1 1/4" = 1'-0"

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.
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. GYPSUM USED IN RESTROOMS SHALL BE WATER RESISTANT GYPSUM BOARD. USE DURAROCK @ ALL PORCELAIN & CERAMIC TILE LOCATIONS.
I. PROVIDE ADA COMPLIANT SIGNAGE FOR ALL REQUIRED AREAS, ROOMS, & ACCESSIBLE PATHS.
J. 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 HANRAIL AND CRASH RAIL THROUGHOUT CORRIDOR.
10.13	PRIVACY CURTAINT REPLACE IN ROOM
22.02A	SINGLE BASIN SINK

Revision#	Description	Date:

CONSULTANTS

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

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

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: INTERIOR 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: AE-450

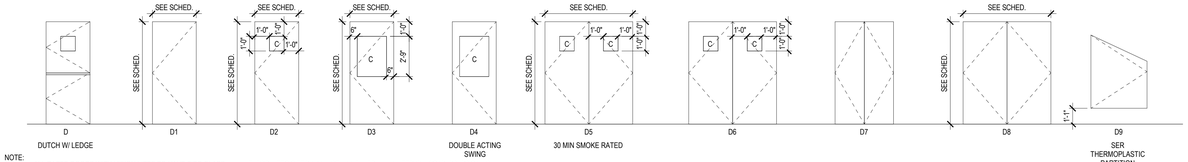
C:\..SGA Revit Local\211937 VA FM Upgrade MH Ward_jjessek\FPWVE.rvt
8/30/2022 7:39:14 AM

VA FORM 08 - 6231

DOOR SCHEDULE

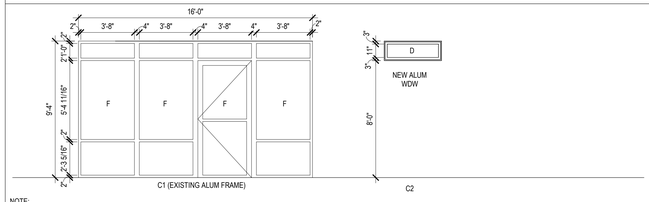
DOOR #	DOOR WIDTH	DOOR HEIGHT	DOOR TYPE	DOOR MATERIAL	FRAME MATERIAL	FRAME DEPTH	RATING	HDW R	REMARKS
201	2'-6"	6'-0"	D1	HM	HM	6 1/8"	-	E1	
202	2'-6"	6'-0"	D1	HM	HM	6 1/8"	-	E1	
203	2'-6"	6'-0"	D1	HM	HM	6 1/8"	-	E1	
204	2'-6"	6'-0"	D1	HM	HM	6 1/8"	-	E1	
C105B	3'-0"	7'-0"	D2	HM	HM	4 7/8"	-	MH3	
CC105A	6'-0"	7'-0"	D5	HM	HM	4 7/8"	30 MIN SB	MH4	USE 5/16" FIRE GLASS.
CC105B	6'-0"	7'-0"	D6	HM	HM	4 7/8"	-	MH4	
CC105C	6'-0"	7'-0"	D6	HM	HM	4 7/8"	-	MH4	
D100	3'-0"	7'-0"	D2	WD	HM	4 7/8"	-	3G	REPLACE DOOR PANEL AND GLAZING, RETAIN FRAME. REUSE EXISTING HARDWARE
D101	3'-0"	7'-0"	D2	WD	HM	4 7/8"	-	3B	REPLACE DOOR PANEL AND GLAZING, RETAIN FRAME. REUSE EXISTING HARDWARE
D102	3'-0"	7'-0"	D2	WD	HM	4 7/8"	-	3B	REPLACE DOOR PANEL AND GLAZING, RETAIN FRAME. REUSE EXISTING HARDWARE
D103A	3'-0"	7'-0"	D2	WD	HM	4 7/8"	-	3B	REPLACE DOOR PANEL AND GLAZING, RETAIN FRAME. REUSE EXISTING HARDWARE
D104	3'-0"	7'-0"	D2	WD	HM	4 7/8"	-	3G	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"	-	3B	REPLACE DOOR PANEL AND GLAZING, RETAIN FRAME. REUSE EXISTING HARDWARE
D107	3'-0"	7'-0"	D3	WD	HM	4 7/8"	-	3G	REPLACE DOOR PANEL, RETAIN FRAME. REUSE EXISTING HARDWARE
D108	3'-8"	7'-0"	D2	WD	HM	4 7/8"	-	3B	REPLACE DOOR PANEL AND FRAME. REUSE EXISTING HARDWARE
D109	3'-0"	7'-0"	D	WD	HM	4 7/8"	-	MH5	DUTCH DOOR. PEEP HOLE SIGHT, ELEC LATCH TO EXISTING REMOTE RELEASE BUTTON. NO LIGATURE ALARM
D110A	3'-8"	7'-0"	D2	WD	HM	4 7/8"	-	MH1	REPLACE DOOR PANEL AND FRAME. REUSE EXISTING HARDWARE, REUSE LIGATURE ALARM
D110B	3'-8"	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"	-	5B	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'-8"	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'-8"	7'-0"	D2	WD	HM	4 7/8"	-		REPLACE GLAZING ONLY
D126A	3'-8"	7'-0"	D2	HM	HM	4 7/8"	-		REPLACE GLAZING ONLY
D127	3'-8"	7'-0"	D2	WD	HM	4 7/8"	-	MH1B	REPLACE DOOR PANEL AND FRAME. REUSE EXISTING HARDWARE, REUSE LIGATURE ALARM
D127A	3'-8"	7'-0"	D2	HM	HM	4 7/8"	-	MH1C	REPLACE DOOR PANEL AND FRAME. REUSE EXISTING HARDWARE, REUSE LIGATURE ALARM
D128	3'-8"	7'-0"	D2	WD	HM	4 7/8"	-		REPLACE GLAZING ONLY
D128A	3'-8"	7'-0"	D2	HM	HM	4 7/8"	-		REPLACE GLAZING ONLY
D129	3'-8"	7'-0"	D2	WD	HM	4 7/8"	-		REPLACE GLAZING ONLY
D129A	3'-8"	7'-0"	D2	HM	HM	4 7/8"	-		REPLACE GLAZING ONLY
D130	3'-8"	7'-0"	D1	WD	HM	4 7/8"	-	4F	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'-8"	7'-0"	D1	WD	HM	4 7/8"	-	MH4	REPLACE DOOR PANEL, RETAIN FRAME. REUSE EXISTING HARDWARE
DEC1	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"	-	3B	TEMPORARY CONSTRUCTION BARRIER DOOR

DOOR TYPES



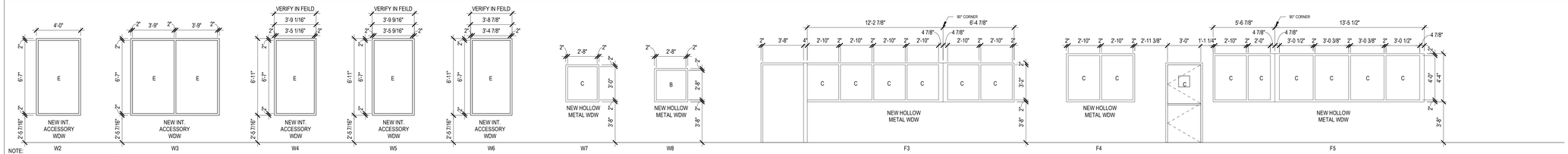
NOTE:
A. ALL RATED DOORS WITH VISION LITES TO HAVE FIRE GLASS.
B. ALL RATED DOORS TO HAVE SMOKE SEALS.
C. LG#2 - 7/16" LAMINATED GLASS
D. GLASS TO HAVE FROSTED COATING ON NON-CORRIDOR SIDE
E. FOR LITES SIZED 1'X1' USE ANNEALED LAMINATED GLASS (D, D2, D6 ONLY)

EXTERIOR ALUMINUM WINDOW AND GLAZING TYPES



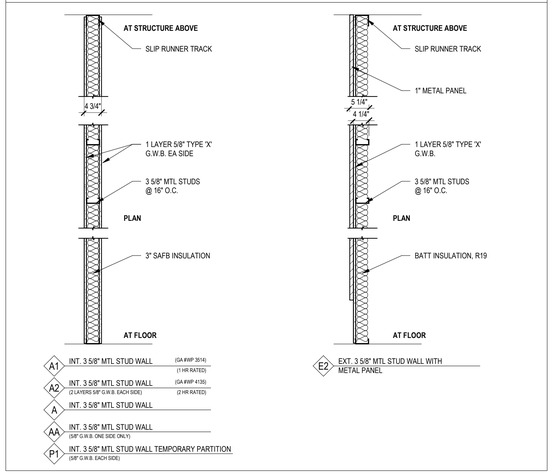
NOTE:
A. ALL GLASS TO BE LAMINATED SAFETY GLASS.
B. LG#1 - 5/16" LAMINATED GLASS
C. LG#2 - 7/16" LAMINATED GLASS
D. IL#1 - 7/16" INSULATING LAMINATED GLAZED ALUMINUM EXTERIOR WINDOW UNIT W/ INTEGRAL BLIND
E. IL#2 - 7/16" INSULATING LAMINATED GLAZING INTERIOR ACCESSORY WINDOW UNIT W/ INTEGRAL BLIND
F. IL#3 - 7/16" INSULATING LAMINATED CURTAIN WALL GLAZING UNIT, PROVIDE NEW WINDOW STOPS FOR EXISTING FRAME

INTERIOR WINDOWS AND GLAZING TYPES



NOTE:
A. ALL GLASS TO BE LAMINATED SAFETY GLASS.
B. LG#1 - 5/16" LAMINATED GLASS
C. LG#2 - 7/16" LAMINATED GLASS
D. IL#1 - 7/16" INSULATING LAMINATED GLAZED ALUMINUM EXTERIOR WINDOW UNIT W/ INTEGRAL BLIND
E. IL#2 - 7/16" INSULATING LAMINATED GLAZING INTERIOR ACCESSORY WINDOW UNIT W/ INTEGRAL BLIND
F. IL#3 - 7/16" INSULATING LAMINATED CURTAIN WALL GLAZING UNIT, PROVIDE NEW WINDOW STOPS FOR EXISTING FRAME

WALL TYPES



Revision#	Description	Date:

CONSULTANTS

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

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

ARCHITECT OF RECORD

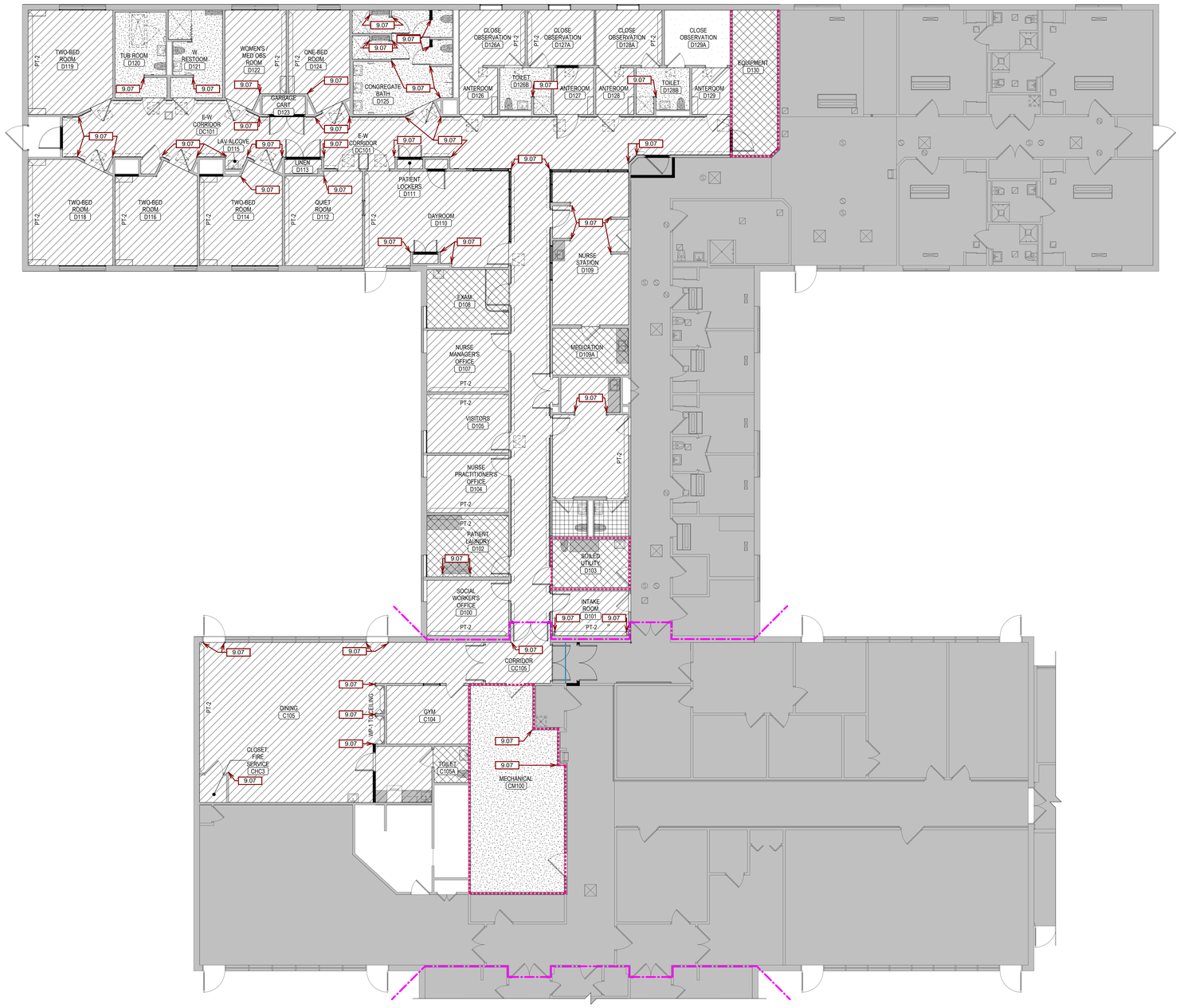
A/E:
Stone Group Architects
600 E 7th Street
Sioux Falls, SD 57103
605-271-1144
STONE GROUP ARCHITECTS

STAMP

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

Drawing Title: 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

C:_SGA Revit Local\211937 VA FM Upgrade MH Ward_jesseklJPWVE.rvt
8/30/2022 7:39:16 AM
VA FORM 08 - 6231



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 ARCHITECTS SAMPLE. WORK SHOULD BE PREFORMED IN A DUST FREE ENVIRONMENT.
E. ALL HOLLOW METAL DOOR FRAMES TO BE PAINTED PT-3. (UON)
F. EXTEND ALL FLOORING UNDER FURNITURE, DESKS, COUNTERS ADN ETC. (UON)
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, (UON). 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. (UON)
L. FOR FLOOR PATTERN INSTALL DIRECTION REFER TO THE INSTALLATION SYMBOL.
M. PROVIDE UNDER COUNTER HORIZONTAL METAL SUPPORTS FOR TROUGH LAVATORIES.
N. CORNER GUARDS TO BE SUPPLIED AND INSTALLED BY CONTRACTOR.
O. VERIFY ALL CORNER GUARD HEIGHTS. INSTALL CORNER GUARDS AT ALL EXPOSED OUTSIDE CORNERS OF GYPSUM BOARD WALLS. (UON)
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 COLOR & MATERIAL SCHEDULE)
3. SEE FLOOR COVERING PLANS FOR FLOOR PATTERNS.
4. ALL INTERIOR G.W.B. WALLS AND CEILINGS SHALL RECEIVE A 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.

ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALLS				CEILING	ID FINISH REMARKS
				NORTH	EAST	SOUTH	WEST		
201	MECH PENTHOUSE								
C104	GYM	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1	
C105	DINING	LVT-1	RB-1	PT-1	PT-1	PT-2	PT-1	PT-1	NO THRESHOLDS
C105A	TOILET	WSF	RB-1	PT-E	PT-E	PT-E	PT-E	PT-1	
C105B	PATIENT KITCHENETTE	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1	
CC105	CORRIDOR	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1	NO THRESHOLDS
CHC3	CLOSET, FIRE SERVICE	LVT-1	RB-1	-	-	-	-		
CM100	MECHANICAL	EPOXY	EPOXY	-	-	-	-		
D100	SOCIAL WORKER'S OFFICE	LVT-1	RB-1	PT-1	PT-2	PT-1	PT-1	PT-1	NO THRESHOLDS
D101	INTAKE ROOM	LVT-1	RB-1	PT-1	PT-2	PT-1	PT-1	PT-1	NO THRESHOLDS
D102	PATIENT LAUNDRY	WSF	RB-1	PT-1	PT-1	PT-1	PT-2	PT-1	
D103	SOILED UTILITY	WSF	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1	
D104	NURSE PRACTITIONER'S OFFICE	LVT-1	RB-1	PT-1	PT-2	PT-1	PT-1	PT-1	NO THRESHOLDS
D105	VISITORS	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-2	PT-1	NO THRESHOLDS
D106	REPORT / CONFERENCE ROOM	LVT-1	RB-1	PT-2	PT-1	PT-1	PT-1	PT-1	
D106A	TOILET, M STAFF	PRT-1	PRT-2	PRT-2/PT-E	PRT-2/PT-E	PRT-2/PT-E	PRT-2/PT-E	PT-1	4" WAINSCOT, PT-1 ACCENT
D106B	TOILET, F STAFF	PRT-1	PRT-2	PRT-2/PT-E	PRT-2/PT-E	PRT-2/PT-E	PRT-2/PT-E	PT-1	4" WAINSCOT, PT-1 ACCENT
D107	NURSE MANAGER'S OFFICE	LVT-1	RB-1	PT-1	PT-2	PT-1	PT-1	PT-1	NO THRESHOLDS
D108	EXAM	WSF	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1	
D109	NURSE STATION	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1	NO THRESHOLDS
D109A	MEDICATION	WSF	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1	
D110	DAYROOM	LVT-1	RB-1	PT-1	PT-1	PT-2	PT-1	PT-1	NO THRESHOLDS
D110A	RECREATION SUPPLIES	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1	
D110B	MEDIA CLOSET	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1	
D111	PATIENT LOCKERS	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1	NO THRESHOLDS
D112	QUIET ROOM	LVT-1	RB-1	PT-1	PT-1	PT-2	PT-1	PT-1	NO THRESHOLDS
D113	LINEN	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1	NO THRESHOLDS
D114	TWO-BED ROOM	LVT-1	RB-1	PT-1	PT-1	PT-2	PT-1	PT-1	NO THRESHOLDS
D115	LAV ALCOVE	LVT-1	RB-1	PT-1	PT-1	-		PT-1	NO THRESHOLDS
D116	TWO-BED ROOM	LVT-1	RB-1	PT-1	PT-1	PT-2	PT-1	PT-1	NO THRESHOLDS
D117	STORAGE	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1	NO THRESHOLDS
D118	TWO-BED ROOM	LVT-1	RB-1	PT-1	PT-1	PT-2	PT-1	PT-1	NO THRESHOLDS
D119	TWO-BED ROOM	LVT-1	RB-1	PT-1	PT-1	PT-2	PT-1	PT-1	NO THRESHOLDS
D120	TUB ROOM	EPOXY	EPOXY	PT-E	PT-E	PT-E	PT-E	PT-1	
D121	W RESTOOM	EPOXY	EPOXY	PT-E	PT-E	PT-E	PT-E	PT-1	
D122	WOMENS / MED OBS ROOM	LVT-1	RB-1	PT-1	PT-2	PT-1	PT-1	PT-1	NO THRESHOLDS
D123	GARBAGE CART	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1	NO THRESHOLDS
D124	ONE-BED ROOM	LVT-1	RB-1	PT-1	PT-1	PT-2	PT-1	PT-1	NO THRESHOLDS
D125	CONGREGATE BATH	EPOXY	EPOXY	PT-E	PT-E	PT-E	PT-E	PT-1	
D126	ANTEROOM	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1	NO THRESHOLDS
D126A	CLOSE OBSERVATION	LVT-1	RB-1	PT-2	PT-1	PT-1	PT-1	PT-1	NO THRESHOLDS
D126B	TOILET	EPOXY	EPOXY	PT-E	PT-E	PT-E	PT-E	PT-1	
D127	ANTEROOM	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1	NO THRESHOLDS
D127A	CLOSE OBSERVATION	LVT-1	RB-1	PT-1	PT-1	PT-2	PT-1	PT-1	NO THRESHOLDS
D128	ANTEROOM	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1	NO THRESHOLDS
D128A	CLOSE OBSERVATION	LVT-1	RB-1	PT-2	PT-1	PT-1	PT-1	PT-1	NO THRESHOLDS
D128B	TOILET	EPOXY	EPOXY	PT-E	PT-E	PT-E	PT-E	PT-1	
D129	ANTEROOM	LVT	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1	NO THRESHOLDS
D129A	CLOSE OBSERVATION	RUBBER						PT-1	INSTALL NEW PADDING MATERIAL ON WALLS AND FLOOR.
D130	EQUIPMENT	WSF	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1	
DC100	N-S CORRIDOR	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1	NO THRESHOLDS
DC101	E-W CORRIDOR	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1	NO THRESHOLDS
DC101A	VESTIBULE								
DEC1	CLOSET, ELECTRICAL	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1	NO THRESHOLDS

FINISH PLAN LEGEND

WSF EPX RUB PT LVT

COLOR AND MATERIAL SCHEDULE

ABBR CODE	Material	Manufacturer	Style Name	Color Number	Color Name	Size	Installation Notes	Location
06 6100 - SIMULATED STONE FABRICATIONS								
SS-1	Solid Surface	Corian			Antarctica			
09 3000 - TILING								
PRT-1	Porcelain Tile	Dal-Tile	Volume 1.0	VL77	Aural Sand	12x12, 6x6		
PRT-2	Porcelain Tile	Dal-Tile	Volume 1.0	VL78	Accent Brown	12x12, 6x6	Edging - Schluter Systems	
FLOORING								
EPX	Epoxy	Tennant	KC Flake		Pumice			
LVT	Luxury Vinyl Tile	Mannington	Amtico-Wood	AROW7910	Brushed Oak		No thresholds	
WSF	Welded Seam Sheet Flooring	Mannington	BioSpec MD	15369	Bedrock			
PAINT								
PT-1	Paint	Sherwin Williams		SW6106	Kilim Beige			
PT-2	Paint	Diamond Vogel		0441	Slate Stone			
PT-3	Paint	Sherwin Williams		SW1041	Lava			Door Frames
PT-4	Paint	Cloverdale		8459	Travertine Trail			Ceilings
PT-E	Paint-Epoxy	Sherwin Williams		SW6106	Kilim Beige			Bathrooms
WALL PROTECTION								
CG-1	Corner Guard	INPRO		0114	Haze			Corners as noted on the plans. (9.07)
CG-2	Corner Guard	INPRO		0256	Castle			Only corner guards in dining.
HR-1	Hand Rail	INPRO		0256	Castle			Hallways
RB-1	Rubber Base	Tarkett		32	Pebble			
WG-1	Hand Rail	INPRO		0256	Castle			Hallways
WP-1	Wall Protection	INPRO		0256	Castle			

G2 1ST LEVEL FINISH PLAN

1/8" = 1'-0"

Revision#	Description	Date:

CONSULTANTS

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

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

ARCHITECT OF RECORD

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

STONE GROUP ARCHITECTS

STAMP

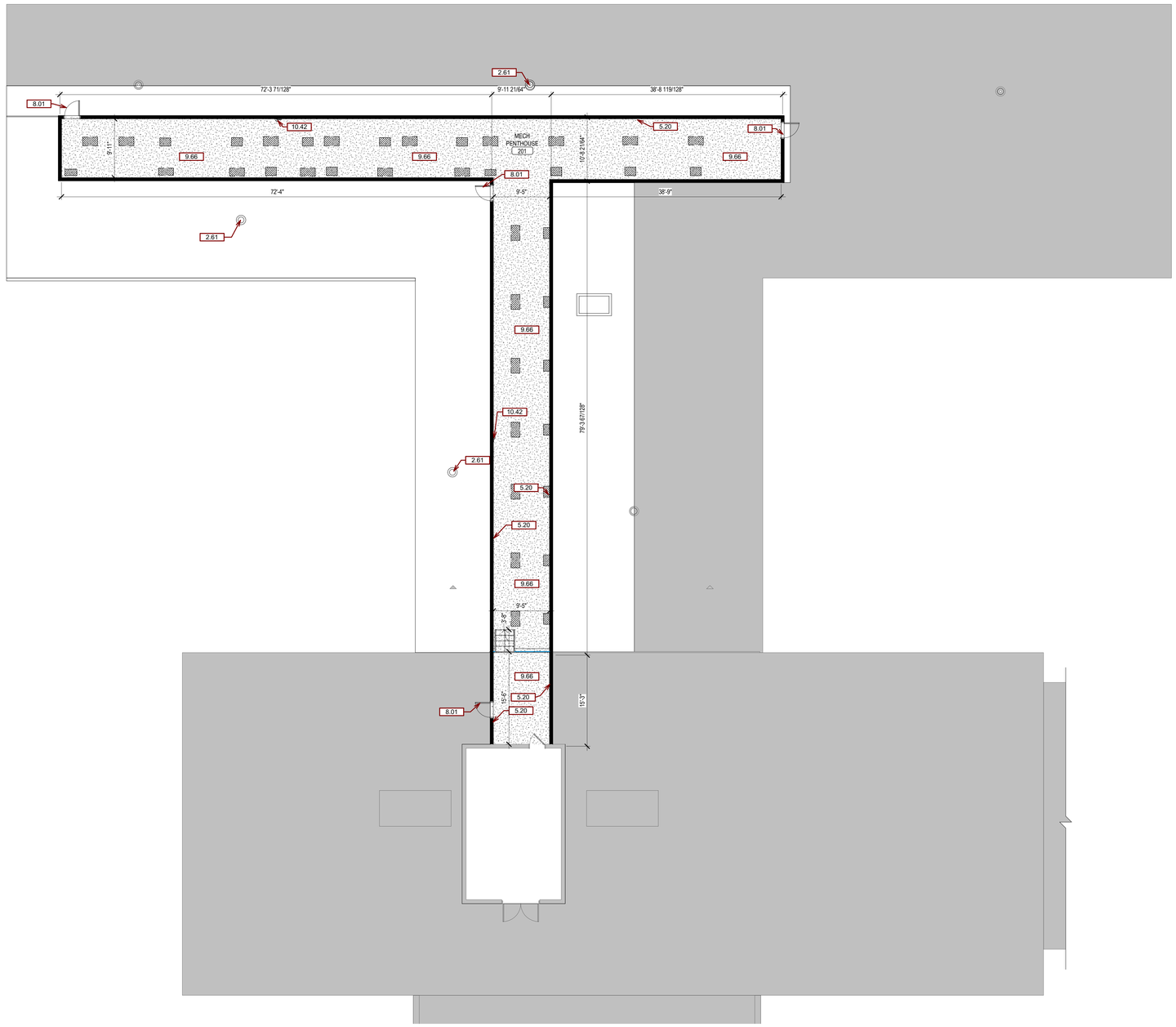
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: 1ST LEVEL FINISH 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-801

C:\..SGA Revit Local\211937 VA FM Upgrade MH Ward_jessek4PWJE.rvt
8/30/2022 7:39:22 AM

VA FORM 08 - 6231



NORTH

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

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 ARCHITECTS SAMPLE. WORK SHOULD BE PREFORMED IN A DUST FREE ENVIRONMENT.
E. ALL HOLLOW METAL DOOR FRAMES TO BE PAINTED PT-3. (UON)
F. EXTEND ALL FLOORING UNDER FURNITURE, DESKS, COUNTERS ADN ETC. (UON)
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. (UON). 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. (UON)
L. FOR FLOOR PATTERN INSTALL DIRECTION REFER TO THE INSTALLATION SYMBOL.
M. PROVIDE UNDER COUNTER HORIZONTAL METAL SUPPORTS FOR TROUGH LAVATORIES.
N. CORNER GUARDS TO BE SUPPLIED AND INSTALLED BY CONTRACTOR.
O. IF EXISTING CORNER GUARDS ARE DAMAGED DURING CONSTRUCTION, REPLACE WITH NEW CORNER GUARDS.
P. VERIFY ALL CORNER GUARD HEIGHTS. INSTALL CORNER GUARDS AT ALL EXPOSED OUTSIDE CORNERS OF GYPSUM BOARD WALLS. (UON)
Q. 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 COLOR & MATERIAL SCHEDULE)
3. SEE FLOOR COVERING PLANS FOR FLOOR PATTERNS.
4. ALL INTERIOR G.W.B. WALLS AND CEILINGS SHALL RECEIVE A 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 6" COVED BASE
10.42	WALL-MOUNTED FIRE EXTINGUISHER

FINISH PLAN LEGEND

WSF EPX RUB PT LVT

Revision#	Description	Date:

CONSULTANTS

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

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

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: 2ND LEVEL FINSH PLAN	Phase: CONSTRUCTION DOCUMENTS	Project Title: VA FM UPGRADE MENTAL HEALTH LOCK WARD	Project Number: VA #568-20-102 SGA #211937
Approved:	FULLY SPRINKLERED	Location: FORT MEADE, SOUTH DAKOTA	Building Number: 148
		Issue Date: 08/29/22 / Checked: JHK / Drawn: RMV/DAN	Drawing Number: AE-802

C:_SGA Revit Local\211937 VA FM Upgrade MH Ward_jessekUPWVE.rvt
8/30/2022 7:39:23 AM
VA FORM 08 - 6231

MECHANICAL SYMBOLS

- CW — COLD WATER PIPE
- CW — UNDERGROUND COLD WATER PIPE
- SAN — UNDERFLOOR WASTE PIPE
- ST — UNDERFLOOR STORM PIPE
- OST — UNDERFLOOR OVERFLOW STORM PIPE
- PD — PUMP DISCHARGE
- AW — UNDERFLOOR ACID WASTE PIPE
- S — COLD SOFT WATER PIPE
- CA — COMPRESSED AIR PIPE
- HPS — HIGH PRESSURE STEAM
- HPR — HIGH PRESSURE RETURN
- PC — PUMPED CONDENSATE PIPE
- HWS — HOT WATER HEATING SUPPLY
- CWS — CHILLED WATER SUPPLY PIPE
- RL — REFRIGERANT LIQUID PIPE
- O — OXYGEN PIPE
- NO — NITROUS OXIDE PIPE
- D — EQUIPMENT DRAIN
- F — FIRE SPRINKLER PIPE
- PENDANT TYPE SPRINKLER HEAD
- CONCEALED SPRINKLER HEAD
- PIPE CONNECTION
- ELBOW DOWN
- ELBOW UP
- TEE DOWN
- PIPE PITCH DOWN
- DIRECTION OF FLOW
- PIPE ANCHOR
- REDUCER OR INCREASER
- UNION
- FLEXIBLE PIPE CONNECTION
- WH — WALL HYDRANT
- HB — HOSE BIB
- CO — CLEAN OUT ABOVE FLOOR
- WCO — WALL CLEAN OUT
- CO — CLEAN OUT IN FLOOR
- FD — FLOOR DRAIN
- FS — FLOOR SINK
- HW — HOT WATER PIPE
- HW — UNDERGROUND HOT WATER PIPE
- SAN — ABOVE FLOOR WASTE PIPE
- ST — ABOVE FLOOR STORM PIPE
- OST — ABOVE FLOOR OVERFLOW STORM PIPE
- PD — PUMP DISCHARGE
- AW — ABOVE FLOOR ACID RESISTANT WASTE PIPE
- SHW — SOFT HOT WATER PIPE
- LS — LAWN SPRINKLER PIPE
- MPS — MEDIUM PRESSURE STEAM
- MPR — MEDIUM PRESSURE RETURN
- HWR — HOT WATER HEATING RETURN
- CWR — CHILLED WATER RETURN PIPE
- RS — REFRIGERANT SUCTION PIPE
- VAC — CLINICAL AND LAB VACUUM
- N — NITROGEN PIPE
- DS — DOWN SPOUT
- SP — STAND PIPE
- UPRIGHT SPRINKLER HEAD
- POST INDICATOR VALVE
- AIR VENT
- FLOW MEASURING DEVICE
- EXPANSION JOINT, PIPE GUIDE
- CAPPED OUTLET
- SHUT OFF VALVE
- BALANCING VALVE
- CONTROL VALVE
- 3-WAY CONTROL VALVE
- PRESSURE REDUCING VALVE
- PRESSURE RELIEF VALVE
- DOMESTIC WATER TEMPERING VALVE
- CHECK VALVE
- CURB STOP
- RD — ROOF DRAIN
- ORD — OVERFLOW ROOF DRAIN
- CONNECT TO EXIST. SERVICE
- RHW — CIRCULATING HOT WATER PIPE
- RHW — UNDERGROUND CIRCULATING HOT WATER PIPE
- V — VENT PIPE
- AV — ACID RESISTANT VENT PIPE
- SRHW — SOFT CIRCULATING HOT WATER PIPE
- COMPRESSED AIR OUTLET
- LPS — LOW PRESSURE STEAM
- LPR — LOW PRESSURE RETURN
- HG — HOT GAS
- GE — GAS EVACUATION PIPE
- A — CLINICAL AND LAB AIR PIPE
- FIRE DEPT. HOSE VALVE
- RECESSED SPRINKLER HEAD
- FLOW ALARM
- PRESSURE/TEMPERATURE TAP
- PRESSURE GAUGE
- STATIC PRESSURE SENSOR
- THERMOMETER
- STRAINER
- STEAM TRAP
- BACK FLOW PREVENTER
- FLOW CONTROL VALVE
- STRAINER VALVE
- PRESSURE SENSOR DIFFERENTIAL
- THERMOSTAT
- FS — FLOW SWITCH
- DEMOLITION HATCHING

VENTILATION SYMBOLS

- SUPPLY DUCT (UP & DOWN)
- RETURN DUCT (UP & DOWN)
- EXHAUST DUCT (UP & DOWN)
- W — STANDARD RADIUS ELBOW R EQUAL W (MINIMUM)
- DUCT TURN WITH TURN VANES
- FLEXIBLE DUCT CONNECTION
- SPIRAL DUCTWORK
- LOW PRESURE DUCTWORK MAX 2" W.G. PRESSURE
- MEDIUM PRESSURE DUCTWORK 2"-6" W.G. PRESSURE
- F - FIRE DAMPER M - MOTORIZED DAMPER
  S - SMOKE DAMPER B - BACKDRAFT DAMPER
  C - COMBINATION FIRE SMOKE DAMPER
- MANUAL VOLUME DAMPER
- 1/2 A — BRANCH DUCT INTO SIDE OF MAIN DUCT
- R OR D — DUCT RISE OR DROP IN DIRECTION OF AIR FLOW
- 12/8 — DUCT DIMENSION- WIDTH x DEPTH
- DUCT TURN AND AIR SPLIT TYPE TAKEOFF (NON-ADJUSTABLE)
- S-1 / 200 — TYPE OF EQUIP. CFM — GRILLE, REGISTER & DIFFUSER DESIGNATION SUPPLY, RETURN, EXHAUST, & TRANSFER
- EF / 1 — TYPE OF EQUIP. EQUIP. NO. — EQUIPMENT DESIGNATION
- FLEX DUCT (5' MAXIMUM)

MECHANICAL ABBREVIATIONS

A	AIR OR COMPRESSED AIR
	AIR OR COMPRESSED AIR
A/C	AIR CONDITIONING
	AIR CONDITIONING OR ALTERNATING CURRENT
	AIR FOIL
	ABOVE FINISHED FLOOR
AC	AIR CONDITIONING OR ALTERNATING CURRENT
AF	AIR FOIL
AFF	
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AL	ALUMINUM
AMB	AMBIENT
AMP	AMPERE
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
AS	AIR SEPARATOR
ATM	ATMOSPHERE
AUTO	AUTOMATIC
AUX	AUXILIARY
AVG	AVERAGE
BBD	BOILER BLOWDOWN
BDD	BACK-DRAFT DAMPER
BF	BOILER FEED
BHP	BOILER HORSEPOWER, BRAKE HORSEPOWER
BI	BACKWARDS INCLINED
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
BV	BUTTERFLY VALVE
C	CONDENSATE LINE
CA	COMPRESSED AIR
CF	CUBIC FEET
CF	CHEMICAL FEED, CUBIC FOOT
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CI	CAST IRON
CIRC	CIRCULAR
CL	CENTER LINE
CM	CENTIMETER
CO	CARBON MONOXIDE
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE, CONCENTRIC
CONT	CONTINUATION
CPVC	CHLORINATED POLYVINYL CHLORIDE
CR	CONDENSER WATER RETURN
CS	CONDENSER WATER SUPPLY
CT	COOLING TOWER
CT	COOLING TOWER
CTR	CENTER
CU	CUBIC
CU FT.	CUBIC FEET
CU IN.	CUBIC INCHES
CUH	CABINET UNIT HEATER
CW	COLD WATER
CWR	CHILLED WATER RETURN
CWS	CHILLED WATER SUPPLY
D	DRAIN
DB	DRY BULB (TEMPERATURE)
DDC	DIRECT DIGITAL CONTROL
DEG	DEGREE
DELTA T	TEMPERATURE DIFFERENCE
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DISC	DISCONNECT
DN	DOWN
DP	DIFFERENTIAL PRESSURE
DP	DEW POINT TEMPERATURE
DWG	DRAWING
E TO C	END TO CENTER
EA	EACH OR EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENT RATIO
EET	EXPANSION TANK
EF	EXHAUST FAN
EFF	EFFICIENCY
EL	ELEVATION
ELB	ELBOW
ELEC	ELECTRICAL
ENT	ENTERING
ERV	ENERGY RECOVERY VENTILATOR
ESP	EXTERNAL STATIC PRESSURE
EVAP	EVAPORATOR
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
EXP	EXPANSION
EXT	EXTERNAL
F	FAHRENHEIT OR FIRE DAMPER
FC	FAN COIL UNIT
FD	FLOOR DRAIN OR FIRE DAMPER
FDC	FIRE DEPARTMENT
FDW	FEED WATER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FG	FINISH GRADE

MECHANICAL ABBREVIATIONS

FHC	FIRE HOSE CABINET
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FLR	FLOOR
FM	FLOW METER
FO	FUEL OIL
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FRP	FIBERGLASS REINFORCED PLASTIC
FS	FLOW SWITCH
FT	FOOT, FEET
FT	FINNED TUBE RADIATION
FV	FLUSH VALVE
G	GAS
GA	GAUGE
GAL	GALLONS
GALV	GALVANIZED
GF	GLYCOL FEED UNIT
GND	GROUND
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GPS	GALLONS PER SECOND
H2O	WATER
HB	HOSE BIBB
HD	HEAD
HG	MERCURY
HGT	HEIGHT
HORIZ	HORIZONTAL
HP	HORSEPOWER
HR	HOUR
HRV	HEAT RECOVERY VENTILATOR
HTG	HEATING
HTR	HEATER
HW	HOT WATER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HZ	HERTZ (CYCLES PER SECOND)
ID	INSIDE DIAMETER
IN	INCH
IN HG	INCHES OF MERCURY
INSUL	INSULATION
IPS	IRON PIPE SIZE
IW	INDIRECT WASTE
J	JOULE
K	KELVIN
KG	KILOGRAM
KW	KILOWATT
L	LENGTH, LITER
LAT	LEAVING AIR TEMPERATURE
LB	POUND
LBF	POUND-FORCE
LF	LINEAR FEET
LP	LIQUID PETROLEUM
LRA	LOCKED ROTOR AMPS
LVG	LEAVING
LVL	LEVEL
LWT	LEAVING WATER TEMPERATURE
M	METER
MAT	MIXED AIR TEMPERATURE
MAX	MAXIMUM
MBH	1000 BTUH
MCA	MINIMUM CIRCUIT AMPS
MECH	MECHANICAL
MFR	MANUFACTURER
MG	MILLIGRAM
MIN	MINIMUM OR MINUTE
ML	MILLILITER
MM	MILLIMETER
MPT	MALE PIPE THREAD
MUA	MAKE-UP AIR
N/A	NOT APPLICABLE
NC	NOISE CRITERIA
NC	NORMALLY CLOSED
NEG	NEGATIVE
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NOM	NOMINAL
NPHP	NAME PLATE HORSEPOWER
NPS	NOMINAL PIPE SIZE
NPSH	NET POSITIVE SUCTION HEAD
NTS	NOT TO SCALE
O	OXYGEN
OA	OUTSIDE AIR
OAT	OUTSIDE TEMPERATURE
OC	ON CENTER
OD	OUTSIDE DIAMETER
ODP	OPEN DRIP PROOF
OV	OUTLET VELOCITY
OZ	OUNCE
PA	PASCAL
PCR	PUMPED CONDENSATE RETURN
PD	PRESSURE DROP
PF	POWER FACTOR
PG	PRESSURE GAUGE
PH	PHASE
PNEU	PNEUMATIC
PROP	PROPELLER
PRV	PRESSURE REDUCING VALVE

MECHANICAL ABBREVIATIONS

PSI	POUNDS PER SQUARE INCH
PSIA	POUND PER SQUARE INCH ABSOLUTE
PSID	POUNDS PER SQUARE INCH DIFFERENTIAL
PSIG	POUNDS PER SQUARE INCH GAUGE
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
R	RADIUS
RA	RETURN AIR
RAT	RETURN AIR TEMPERATURE
RD	ROOF DRAIN
RECO V	RECOVERY
RED	REDUCER
REF	REFERENCE
REQD	REQUIRED
RH	RELATIVE HUMIDITY
RL	REFRIGERANT LIQUID
RL	RUNNING LOAD AMPS
RLA	RATED LOAD AMPERES
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
RTN	RETURN
RTU	ROOF-TOP UNIT
RV	RELIEF VALVE
S	SWITCH
SA	SUPPLY AIR
SA	SHOCK ABSORBER, SUPPLY AIR
SCH	SCHEDULE
SCR	SILICON CONTROLLED RECTIFIER
SD	SMOKE DETECTOR OR SMOKE DAMPER
SEC	SECONDS, SECONDARY
SEN	SENSIBLE
SEP	SEPARATE
SEQ	SEQUENCE
SER	SERIES
SERV	SERVICE
SF	SQUARE FEET
SF	SERVICE FACTOR
SF	SQUARE FEET
SFD	COMBINATION SMOKE / FIRE DAMPER
SHC	SENSIBLE HEAT CAPACITY
SHT	SHEET
SI	INTERNATIONAL SYSTEMS OF UNITS
SOL	SOLENOID
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SPLY	SUPPLY
SQ	SQUARE
SS	STAINLESS STEEL
SSH	STATIC SUCTION HEAD
SST	SATURATED SUCTION TEMPERATURE
STD	STANDARD
STH	STATIC TOTAL HEAD
STL	STEEL
SUCT	SUCTION
SUP	SUPPLY
SV	SERVICE
SVH	STATIC VELOCITY HEAD
SW	SERVICE WEIGHT
SWS	SERVICE WATER
T	TEMPERATURE OR THERMOSTAT
TATAT	THERMOSTAT
TD	TEMPERATURE DIFFERENCE
TDH	TOTAL DYNAMIC HEAD
TEFC	TOTALLY ENCLOSED FAN COOLED
TEMP	TEMPERATURE
TH	THERMOMETER
THK	THICK
TON	12,000 BTUH (COOLING CAPACITY)
TP	TOTAL PRESSURE
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UC	UNDERCUT (DOOR)
UF	UNDER FLOOR
UH	UNIT HEATER
V	VENT, VOLT, VOLUME
VAC	VACUUM
VAV	VARIABLE AIR VOLUME
VB	VACUUM BREAKER
VD	VOLUME DAMPER
VEL	VELOCITY
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VIB	VIBRATION
VOL	VOLUME
VP	VELOCITY PRESSURE
VTR	VENT THRU ROOF
W	WATT, WIDTH, WIDE
WB	WET BULB TEMPERATURE
WC	WATER COLUMN
WCO	WALL CLEAN OUT
WG	WATER GAUGE
WH	WATER HEATER
WPD	WATER PRESSURE DROP
WTD	WATER TEMPERATURE DIFFERENCE

Revision#	Description	Date:

CONSULTANTS

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

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

ARCHITECT OF RECORD

A/E:
STONE GROUP ARCHITECTS

STAMP
REGISTERED PROFESSIONAL ENGINEER
REG. NO. 8462
MICHAEL SEAN HEINRICH
SOUTH DAKOTA

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

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

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

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

Building Number: #148

Drawing Number: MA-101

VA FORM 08 - 6231

C:\Revit Local Files\2020\BR21045 - VA Ft Meade Upgrade Mental Health Locked Ward-MEP20-CENTRAL_michael.heinrich@westplainsengineering.com.rvt

8/30/2022 10:08:19 AM

three inches = one foot 6"
one and one half inches = one foot 1 6"
one inch = one foot 0 6"
three quarters inch = one foot 2 0 6"
one half inch = one foot 4 0
three eighths inch = one foot 8 0
one quarter inch = one foot 4 0
one eighth inch = one foot 16 8 4 0

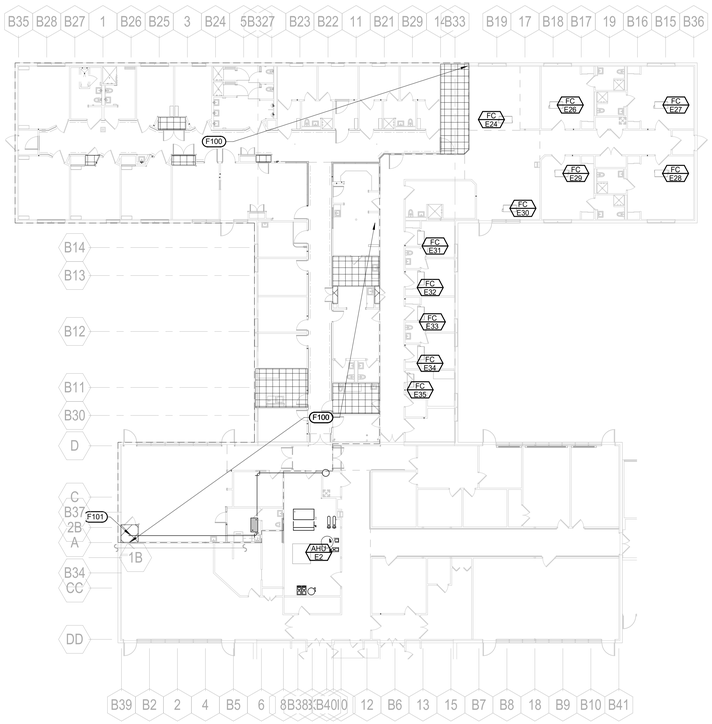
three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot
8/30/2022 10:08:19 AM
C:\Revit Local Files\2020\BR2-1045 - VA Ft Meade Upgrade Mental Health Locked Ward-MEP20-CENTRAL_michael.heinrich@westplainsengineering.com.rvt

LIGHT HAZARD: AREAS NOT IDENTIFIED BY HATCHING WITHIN CONSTRUCTION AREA

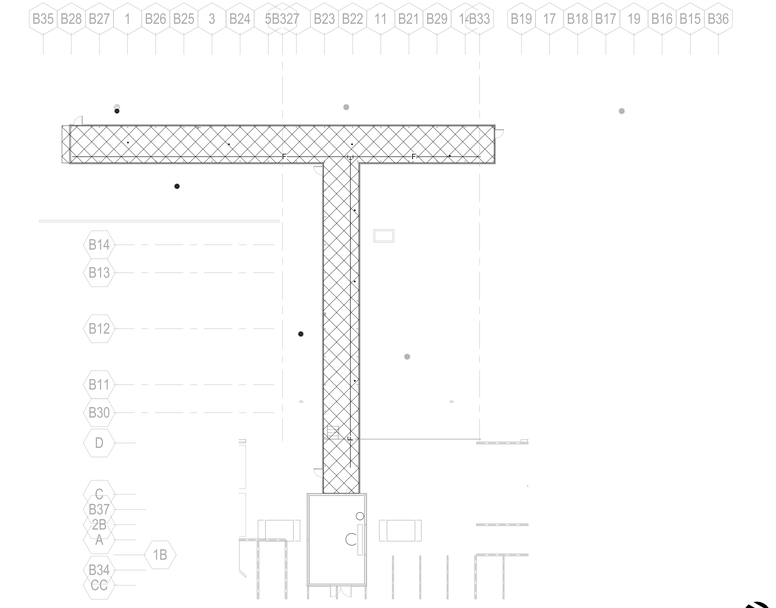
ORDINARY HAZARD GROUP 1:

ORDINARY HAZARD GROUP 2:

BOUNDARY LINE FOR SCOPE OF WORK:



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



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

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 CLOSET BY DINING) IS ESTIMATED TO BE 76 PSI WITH A RESIDUAL PRESSURE/FLOW ESTIMATED AT 40.7 PSI/512 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 G1102. 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.

Revision#	Description	Date:

CONSULTANTS

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

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

ARCHITECT OF RECORD

A/E:
STONE GROUP ARCHITECTS

STAMP

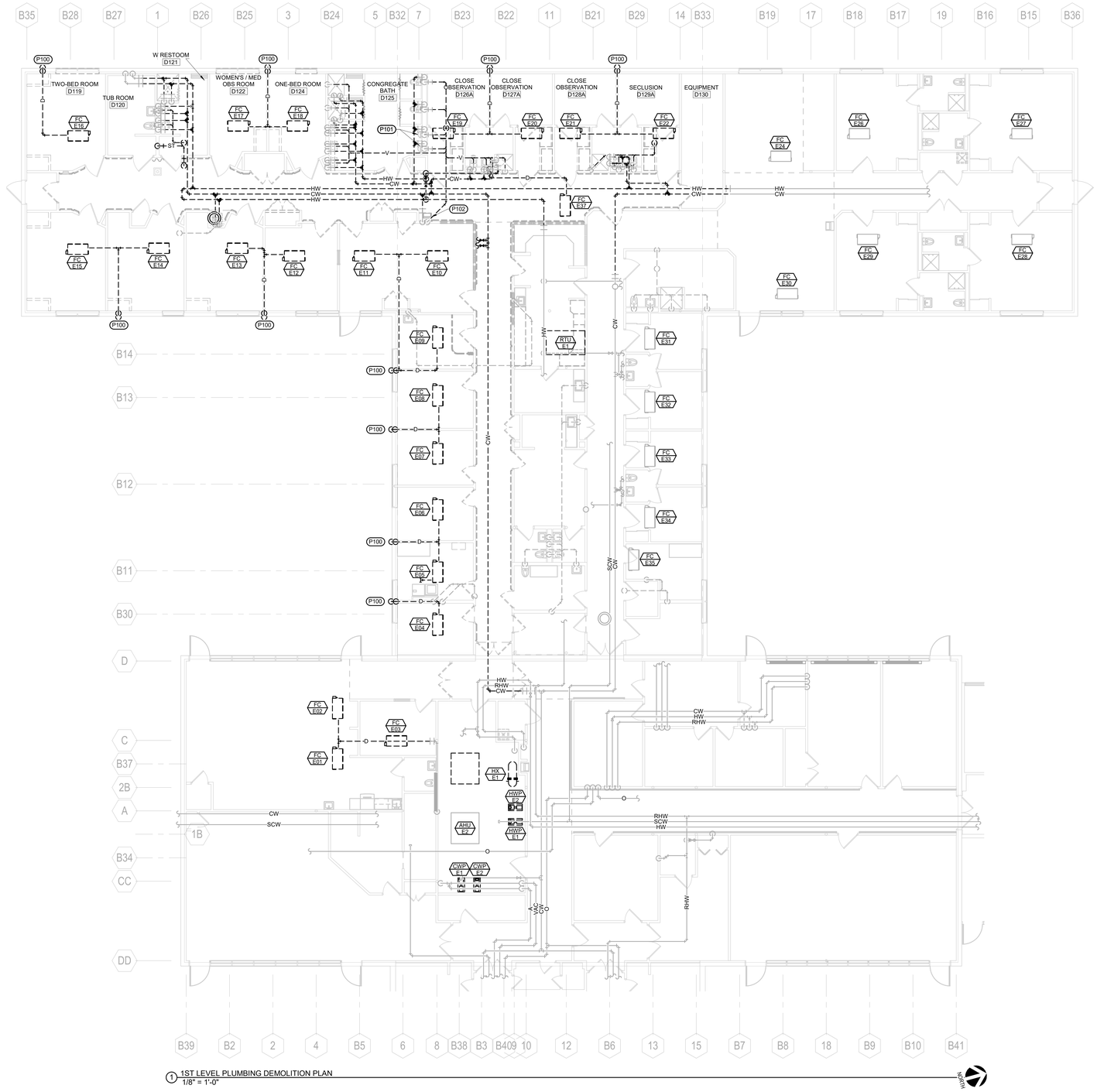
REGISTERED PROFESSIONAL ENGINEER
8462
MICHAEL SEAN HEINRICH
NORTH DAKOTA

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: FIRE PROTECTION PLANS	Phase: CONSTRUCTION DOCUMENTS	Project Title: VA FM UPGRADE MENTAL HEALTH LOCK WARD	Project Number: VA #568-20-102 SGA ##211937
			Building Number: #148
Approved:	FULLY SPRINKLERED	Location: FORT MEADE, SOUTH DAKOTA	Drawing Number: FX101
		Issue Date: 08/26/2022 / Checked: MSH / Drawn: MMM/KJH	

VA FORM 08 - 6231



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.

Revision#	Description	Date:

CONSULTANTS

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

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

ARCHITECT OF RECORD

A/E:
STONE GROUP ARCHITECTS

STAMP

REGISTERED PROFESSIONAL ENGINEER
REG. NO. 8462
MICHAEL SEAN HEINRICH
NORTH DAKOTA

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 | Checked: MSH | Drawn: MMM/KJH

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

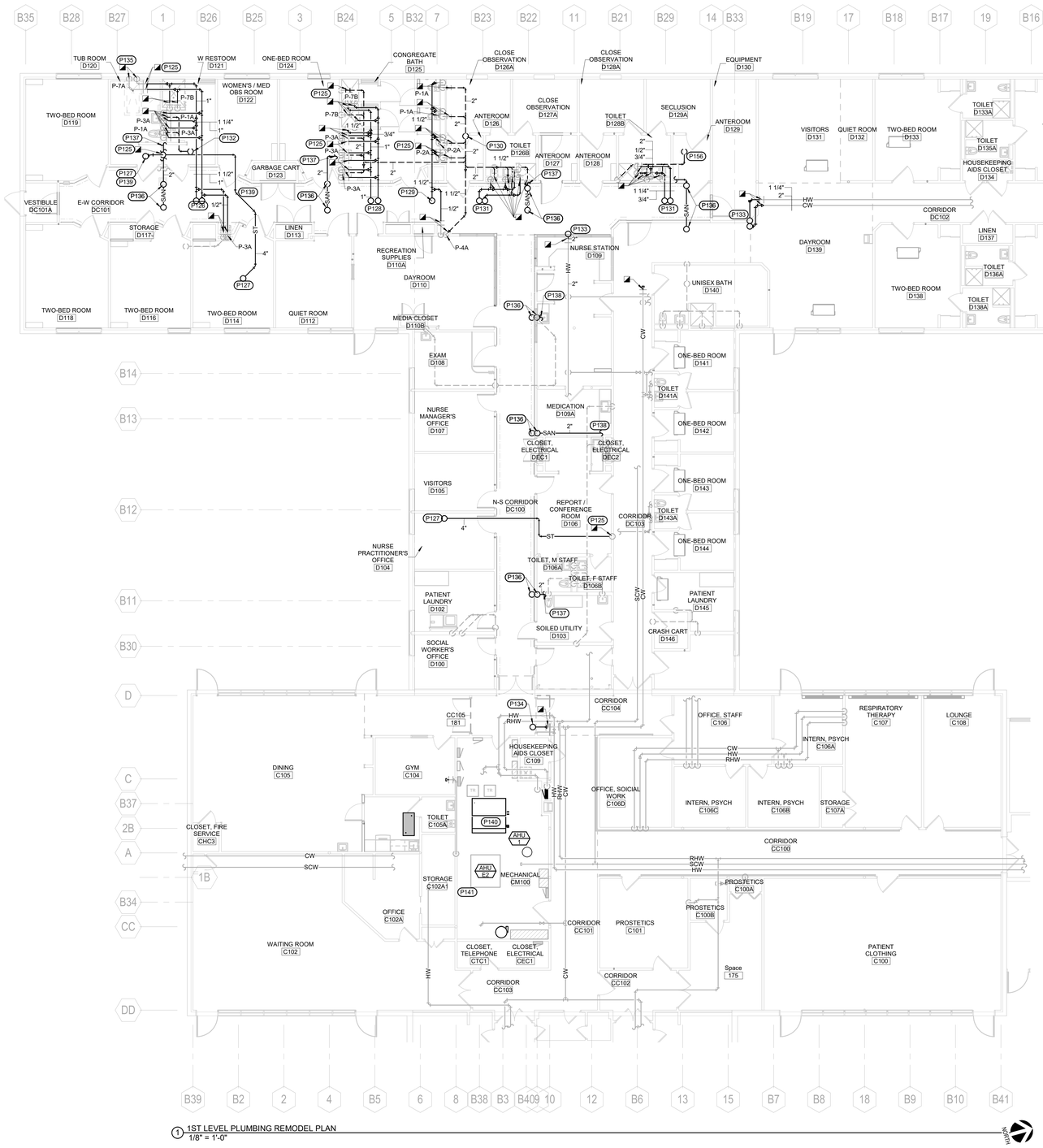
Building Number: #148

Drawing Number: PD-101

C:\Revit Local Files\2020\BR21045 - VA Ft Meade Upgrade Mental Health Lockwd Ward-MEP20-CENTRAL_michael.heinrich@westplainsengineering.com.rvt

8/30/2022 10:09:39 AM

VA FORM 08 - 6231



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

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.

(1) 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 JOIST SPACE AND THROUGH WEBBING 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.

Revision#	Description	Date:

CONSULTANTS

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

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

ARCHITECT OF RECORD

A/E:
STONE GROUP ARCHITECTS

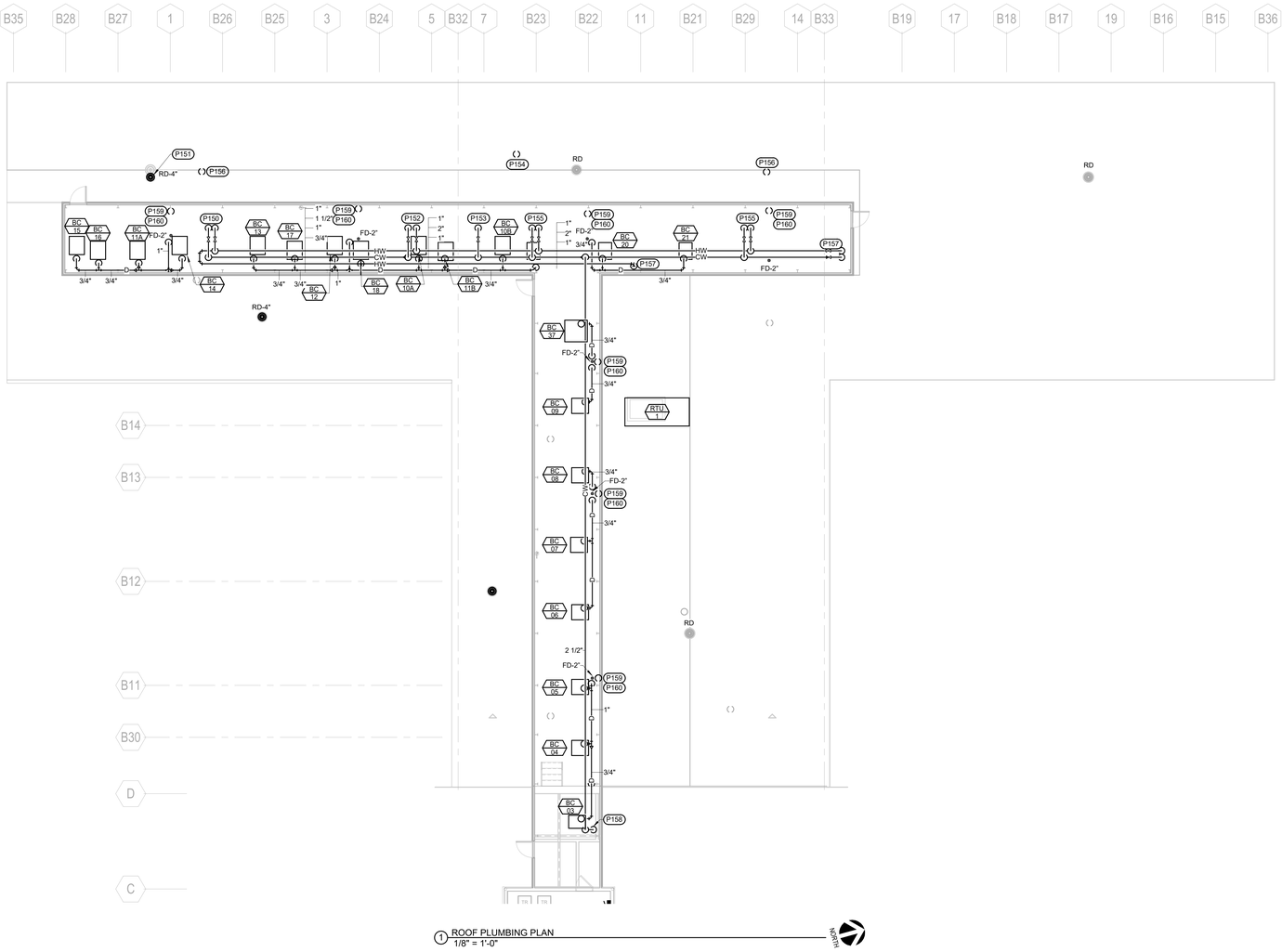
STAMP

REGISTERED PROFESSIONAL ENGINEER
REG. NO. 8462
MICHAEL SEAN HEINRICH
NORTH DAKOTA

Office of Construction and Facilities Management
VA 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	MMM/KJH
Project Number	VA #568-20-102 SGA ##211937
Building Number	#148
Drawing Number	PP-101

C:\Revit Local Files\2020\BR21045 - VA Ft Meade Upgrade Mental Health Locked Ward-MEP20-CENTRAL_michael.heinrich@westplainsengineering.com.rvt
8/30/2022 10:09:38 AM
VA FORM 08 - 6231



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.
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.

Revision#	Description	Date:

CONSULTANTS

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

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

ARCHITECT OF RECORD

A/E:
STONE GROUP ARCHITECTS

STAMP

REGISTERED PROFESSIONAL ENGINEER
REG. NO.
8462
MICHAEL SEAN HENRICH
SOUTH DAKOTA

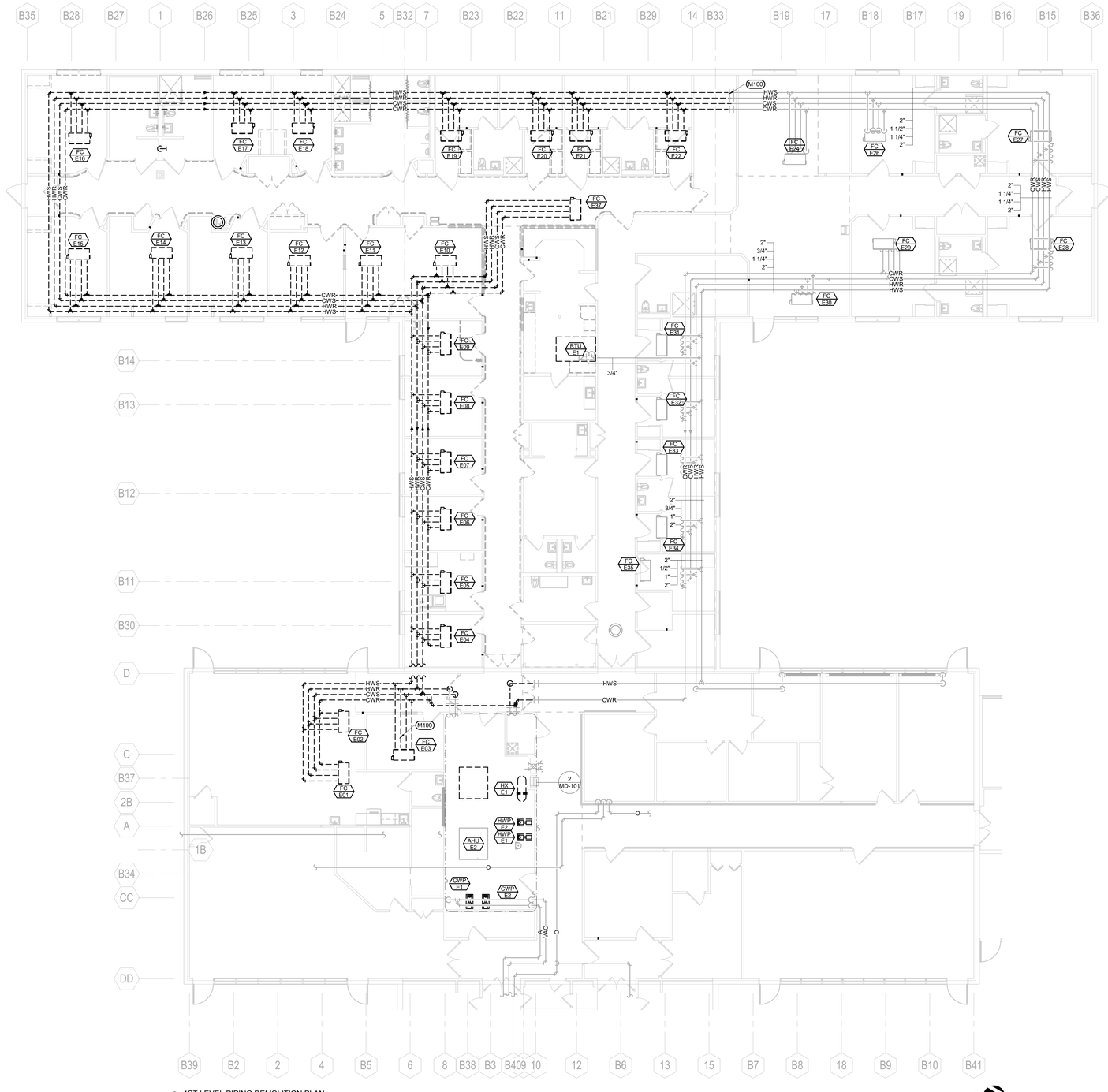
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

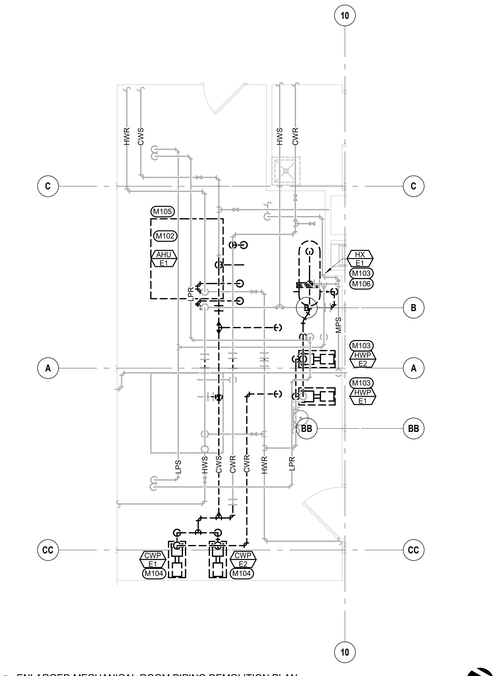
Drawing Title	ROOF PLUMBING PLAN
Approved:	
Phase	CONSTRUCTION DOCUMENTS
	FULLY SPRINKLERED
Project Title	VA FM UPGRADE MENTAL HEALTH LOCK WARD
Location	FORT MEADE, SOUTH DAKOTA
Issue Date	08/26/2022
Checked	MSH
Drawn	MMM/KJH
Project Number	VA #568-20-102 SGA ##211937
Building Number	#148
Drawing Number	PP-102

C:\Revit Local Files\2020\BR21045 - VA Ft Meade Upgrade Mental Health Locked Ward-MEP20-CENTRAL_michael.heinrich@westplainsengineering.com.rvt
8/30/2022 10:09:42 AM

VA FORM 08 - 6231



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



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

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, HWP-E1, HWP-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.

Revision#	Description	Date:

CONSULTANTS

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

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

ARCHITECT OF RECORD

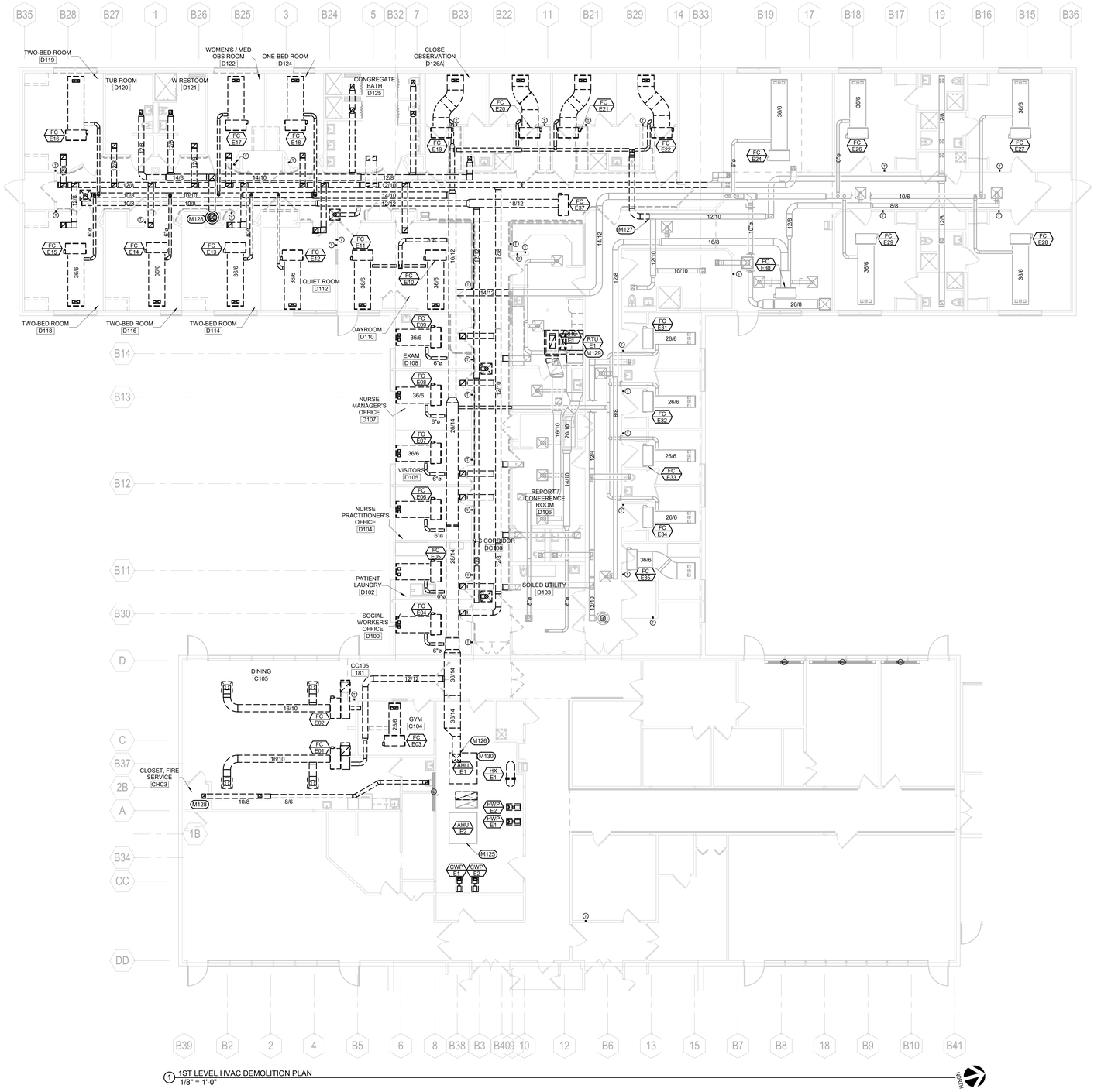
A/E:
STONE GROUP ARCHITECTS

STAMP
REGISTERED PROFESSIONAL ENGINEER
REG. NO. 8463
MICHAEL SEAN HENRICH
NORTH DAKOTA
Not Valid Without Signature and Original Seal

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
Checked	MSH
Drawn	MMM/KJH
Project Number	VA #568-20-102 SGA ##211937
Building Number	#148
Drawing Number	MD-101

C:\Revit Local Files\2020\BR21045 - VA Ft Meade Upgrade Mental Health Locked Ward-MEP20-CENTRAL_michael.henrich@westplainsengineering.com.rvt
8/30/2022 10:08:26 AM
VA FORM 08 - 6231



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

NORTH

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 CONTINUATION.

M130 REMOVE EXISTING AHU-E1 AND ASSOCIATED SUPPLY AND OUTSIDE AIR DUCTWORK AS INDICATED BY DASHED DUCTWORK.

Revision#	Description	Date:

CONSULTANTS

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

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

ARCHITECT OF RECORD

A/E:
STONE GROUP ARCHITECTS

STAMP

REGISTERED PROFESSIONAL ENGINEER
REG. NO 8463
MICHAEL SEAN HENRICH
SOUTH DAKOTA

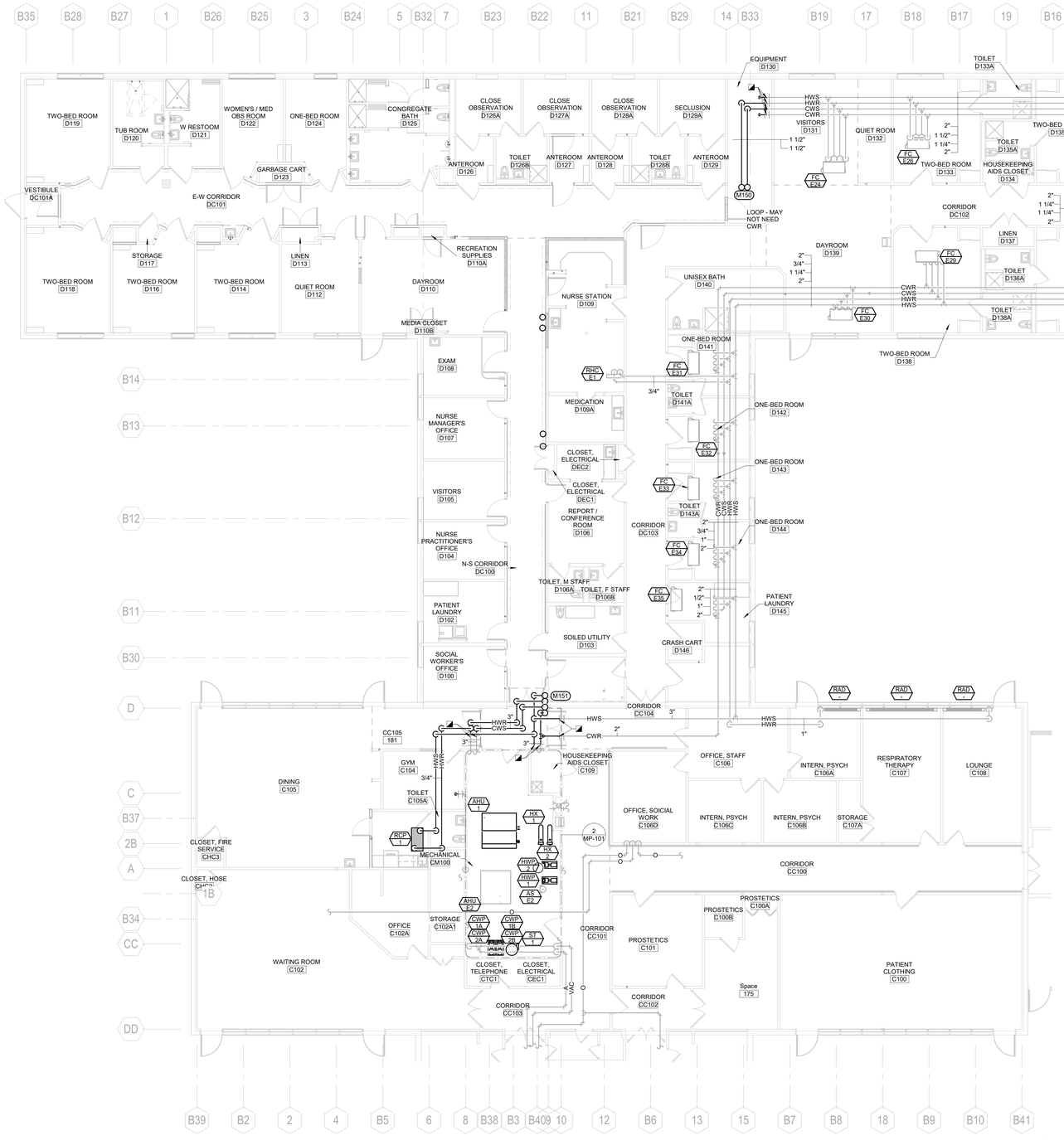
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

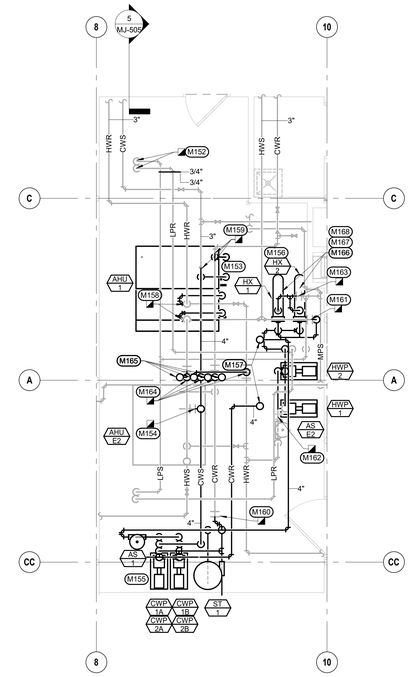
Drawing Title: 1ST LEVEL HVAC DEMOLITION PLAN	Phase: CONSTRUCTION DOCUMENTS	Project Title: VA FM UPGRADE MENTAL HEALTH LOCK WARD	Project Number: VA #568-20-102 SGA #P211937
Approved:	FULLY SPRINKLERED	Location: FORT MEADE, SOUTH DAKOTA	Building Number: #148
		Issue Date: 08/26/2022 / Checked: MSH / Drawn: MMM/KJH	Drawing Number: MD-201

VA FORM 08 - 6231

C:\Revit Local Files\2020\BR21045 - VA Ft Meade Upgrade Mental Health Locked Ward-MEP20-CENTRAL_michael.heinrich@westplainsengineering.com.rvt
8/30/2022 10:08:31 AM
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



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" HWS, 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-E2.

M155 REFER TO 6/MJ-501 CHILLED WATER PIPING SCHEMATIC.

M156 REFER TO 7/MJ-501 CONVERTER SCHEMATIC.

M157 4" CHILLED WATER PIPING TO CHILLER.

M158 CONNECT NEW 2-1/2" HWS 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" HWS 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" HWS, 1-1/4" HWR, 2" CWS, AND 2" CWR TO EXISTING WITHIN THIS AREA.

M165 1-1/4" HWS, 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 90 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.
1750 Rand Road
Rapid City, South Dakota 57702
Phone: 605-348-7455

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

ARCHITECT OF RECORD

A/E:
STONE GROUP ARCHITECTS

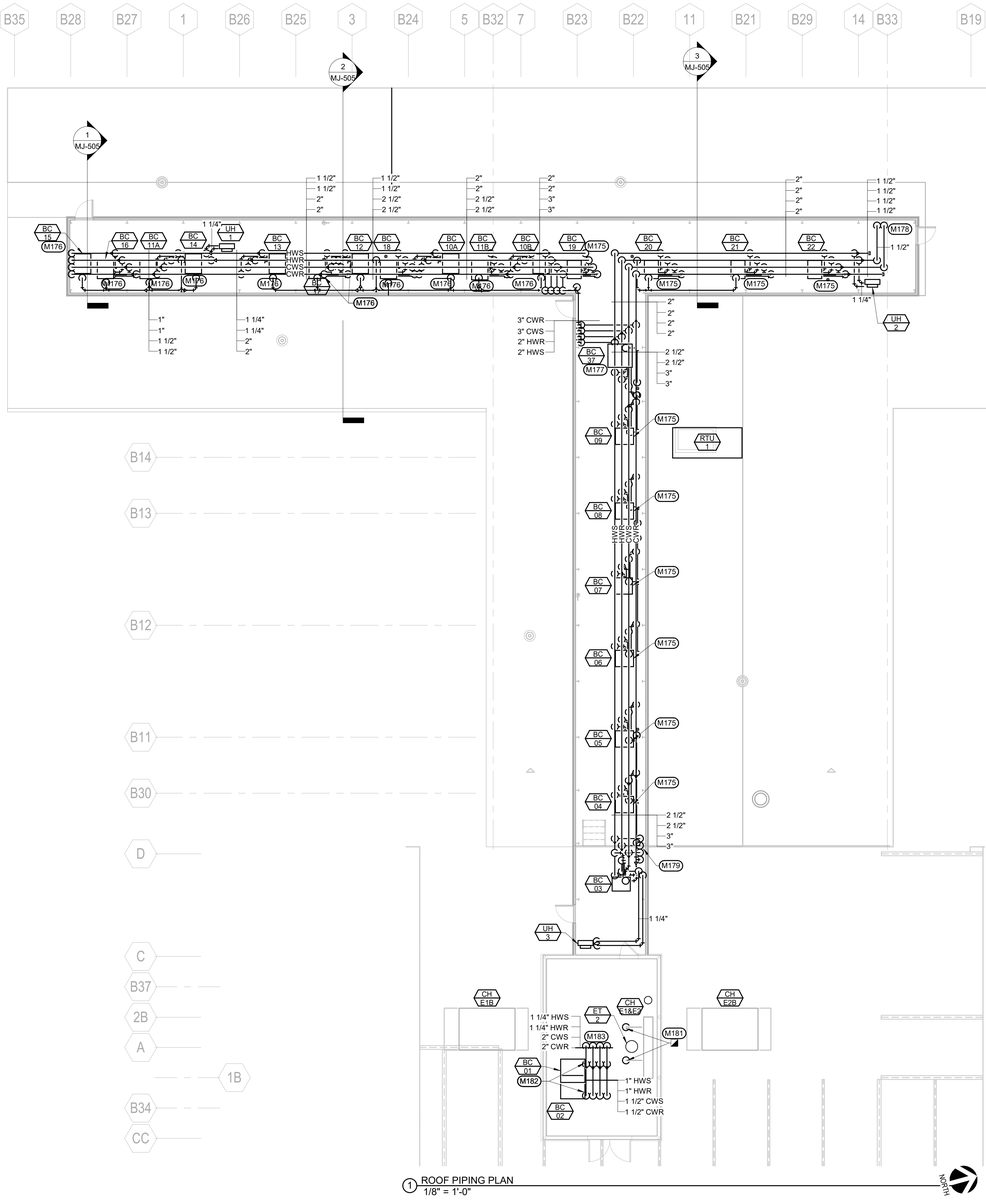
STAMP

REGISTERED PROFESSIONAL ENGINEER
REG. NO.
8462
MICHAEL SEAN HEINRICH
NORTH DAKOTA

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

Drawing Title: 1ST LEVEL PIPING REMODEL PLAN	Phase: CONSTRUCTION DOCUMENTS	Project Title: VA FM UPGRADE MENTAL HEALTH LOCK WARD	Project Number: VA #568-20-102 SGA ##211937
Approved:			Building Number: #148
	FULLY SPRINKLERED	Location: FORT MEADE, SOUTH DAKOTA	Drawing Number: MP-101
		Issue Date: 08/26/2022 / Checked: MSH / Drawn: MMM/KJH	

C:\Revit Local Files\2020\BR21045 - VA Ft Meade Upgrade Mental Health Locked Ward-MEP20-CENTRAL_michael.heinrich@westplainsengineering.com.rvt
8/30/2022 10:09:16 AM
VA FORM 08 - 6231



1 ROOF PIPING PLAN
1/8" = 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

M175 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.

Revision#	Description	Date:

CONSULTANTS

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

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

ARCHITECT OF RECORD

A/E:
STONE GROUP ARCHITECTS

STAMP

REGISTERED PROFESSIONAL ENGINEER
REG. NO
8462
MICHAEL SEAN HEINRICH
NORTH DAKOTA

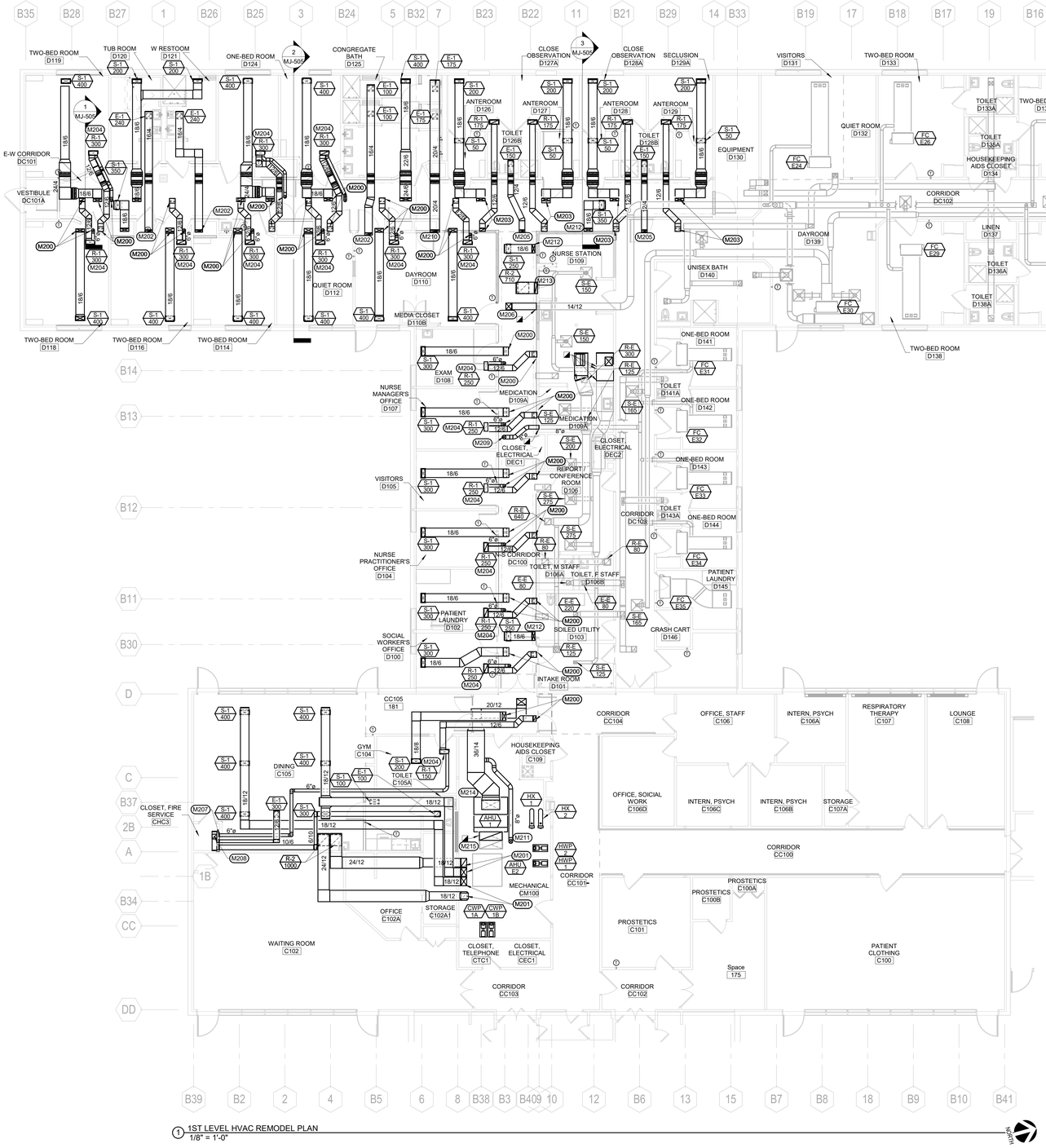
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

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 #568-20-102 SGA ##211937
Building Number	#148
Drawing Number	MP-102

C:\Revit Local Files\2020\BR21045 - VA Ft Meade Upgrade Mental Health Locked Ward-MEP20-CENTRAL_michael.heinrich@westplainsengineering.com.rvt
8/30/2022 10:09:22 AM

VA FORM 08 - 6231



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 18/6 SUPPLY, 12/6 RETURN, AND 6" DIAMETER EXHAUST DUCT UP TO ROOF LEVEL. REFER TO MH-102, ROOF HVAC PLAN, FOR CONTINUATION.

M201 18/12 SUPPLY AND RETURN DUCT UP TO ROOF LEVEL. REFER TO MH-102, ROOF HVAC PLAN, FOR CONTINUATION.

M202 16/4 EXHAUST DUCT UP TO ROOF LEVEL. REFER TO MH-102; ROOF HVAC PLAN, FOR CONTINUATION.

M203 18/6 SUPPLY AND 12/6 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 12/4 EXHAUST DUCT UP TO ROOF LEVEL. REFER TO MH-102, ROOF HVAC PLAN, FOR CONTINUATION.

M206 14/12 EXHAUST DUCT UP TO ROOF LEVEL. REFER TO MH-102, ROOF HVAC PLAN, FOR CONTINUATION.

M207 BALANCE EXHAUST TO 50 CFM.

M208 10/10 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 20/4 EXHAUST DUCT UP TO ROOF LEVEL. REFER TO MH-102, ROOF HVAC PLAN, FOR CONTINUATION.

M211 8" PRIMARY AIR UP TO ROOF LEVELL. REFER TO MH-102, ROOF HVAC PLAN, FOR CONTINUATION. COORDINATE LOCATION OF DUCT WITH EXISTING OUTSIDE AIR DUCT.

M212 18/6 SUPPLY DUCT UP TO ROOF LEVEL. REFER TO MH-102, ROOF HVAC PLAN, FOR CONTINUATION.

M213 24/6 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 48/18 OUTSIDE AIR DUCT TO EXISTING WITHIN THIS AREA.

Revision#	Description	Date:

CONSULTANTS

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

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

ARCHITECT OF RECORD

A/E:
STONE GROUP ARCHITECTS

STAMP

REGISTERED PROFESSIONAL ENGINEER
REG. NO. 8463
MICHAEL SEAN HENRICH
NORTH DAKOTA
7/26/2022

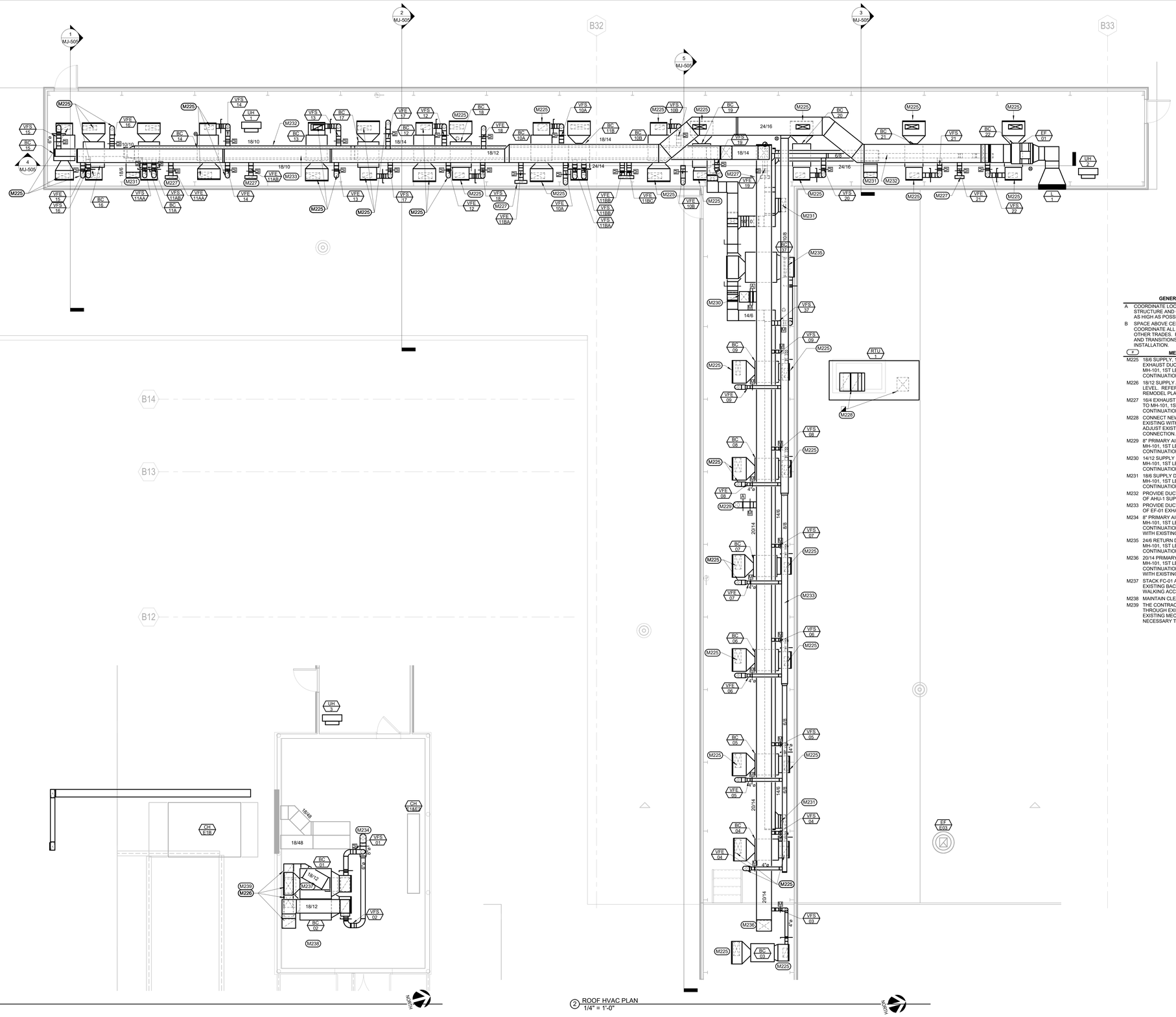
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: 1ST LEVEL HVAC REMODEL PLAN	Phase: CONSTRUCTION DOCUMENTS	Project Title: VA FM UPGRADE MENTAL HEALTH LOCK WARD	Project Number: VA #568-20-102 SGA ##211937
			Building Number: #148
Approved:	FULLY SPRINKLERED	Location: FORT MEADE, SOUTH DAKOTA	Drawing Number: MH-101
		Issue Date: 08/26/2022 · Checked: MSH · Drawn: MMM/KJH	

C:\Revit Local Files\2020\BR21045 - VA Ft Meade Upgrade Mental Health Locked Ward-MEP20-CENTRAL_michael.heinrich@westplainsengineering.com.rvt
8/30/2022 10:08:37 AM

VA FORM 08 - 6231



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

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

NORTH

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 18/8 SUPPLY, 12/6 RETURN, AND 6" DIAMETER EXHAUST DUCT DOWN TO 1ST LEVEL. REFER TO MH-101, 1ST LEVEL HVAC REMODEL PLAN, FOR CONTINUATION.

M226 18/12 SUPPLY AND RETURN DUCT DOWN TO 1ST LEVEL. REFER TO MH-101, 1ST LEVEL HVAC REMODEL PLAN, FOR CONTINUATION.

M227 16/4 EXHAUST DUCT DOWN TO 1ST LEVEL. REFER TO MH-101, 1ST LEVEL HVAC REMODEL PLAN, FOR CONTINUATION.

M228 CONNECT NEW RTU SUPPLY AND RETURN DUCTS TO EXISTING WITHIN THIS LOCATION. MODIFY AND ADJUST EXISTING DUCTWORK AS NECESSARY FOR CONNECTION.

M229 8" PRIMARY AIR DOWN TO 1ST LEVEL. REFER TO MH-101, 1ST LEVEL HVAC REMODEL PLAN, FOR CONTINUATION.

M230 14/12 SUPPLY DOWN TO 1ST LEVEL. REFER TO MH-101, 1ST LEVEL HVAC REMODEL PLAN, FOR CONTINUATION.

M231 18/6 SUPPLY DUCT DOWN TO 1ST LEVEL. REFER TO MH-101, 1ST LEVEL HVAC REMODEL PLAN, FOR CONTINUATION.

M232 PROVIDE DUCT PRESSURE SENSOR FOR CONTROL OF AHU-1 SUPPLY FAN WITHIN THIS LOCATION.

M233 PROVIDE DUCT PRESSURE SENSOR FOR CONTROL OF EF-01 EXHAUST FAN WITHIN THIS LOCATION.

M234 8" PRIMARY AIR UP FROM 1ST LEVEL. REFER TO MH-101, 1ST LEVEL HVAC REMODEL PLAN, FOR CONTINUATION. COORDINATE LOCATION OF DUCT WITH EXISTING OUTSIDE AIR DUCT.

M235 24/6 RETURN DOWN TO 1ST LEVEL. REFER TO MH-101, 1ST LEVEL HVAC REMODEL PLAN, FOR CONTINUATION.

M236 20/14 PRIMARY AIR UP FROM 1ST LEVEL. REFER TO MH-101, 1ST LEVEL HVAC REMODEL PLAN, FOR CONTINUATION. COORDINATE LOCATION OF DUCT WITH EXISTING OUTSIDE AIR DUCT.

M237 STACK FC-01 AND FC-02 AS NECESSARY TO AVOID EXISTING BACKFLOW PREVENTOR AND TO ALLOW WALKING ACCESS FROM LADDER.

M238 MAINTAIN CLEARANCE TO EXISTING LADDER.

M239 THE CONTRACTOR MAY INSTALL NEW DUCTWORK THROUGH EXISTING ROOF IN LIEU OF THROUGH EXISTING MECHANICAL ROOM BELOW AS NECESSARY TO AVOID CONGESTION.

Revision#	Description	Date:

CONSULTANTS

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

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

ARCHITECT OF RECORD

A/E:
STONE GROUP ARCHITECTS

STAMP

REGISTERED PROFESSIONAL ENGINEER
REG. NO
8462
MICHAEL SEAN HENRICH
SOUTH DAKOTA

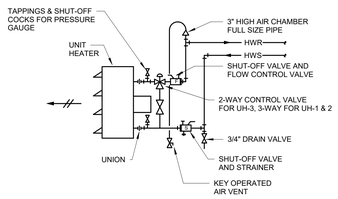
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

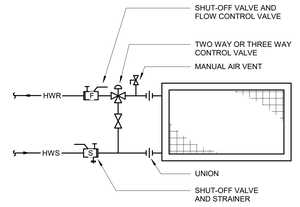
Drawing Title: ROOF HVAC PLAN	Phase: CONSTRUCTION DOCUMENTS	Project Title: VA FM UPGRADE MENTAL HEALTH LOCK WARD	Project Number: VA #568-20-102 SGA #P211937
Approved:	FULLY SPRINKLERED	Location: FORT MEADE, SOUTH DAKOTA	Building Number: #148
		Issue Date: 08/26/2022 / Checked: MSH / Drawn: MMM/KJH	Drawing Number: MH-102

C:\Revit Local Files\2020\BR21045 - VA Ft Meade Upgrade Mental Health Locked Ward-MEP20-CENTRAL_michael.heinrich@westplainsengineering.com.rvt
8/30/2022 10:08:41 AM

VA FORM 08 - 6231

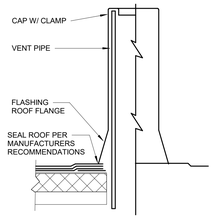


1 HOT WATER UNIT HEATER DETAIL
NO SCALE

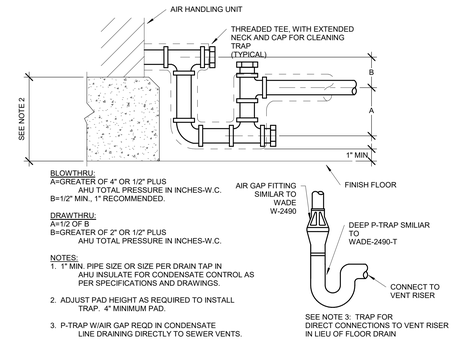


2 WATER COIL PIPING DETAIL
NO SCALE

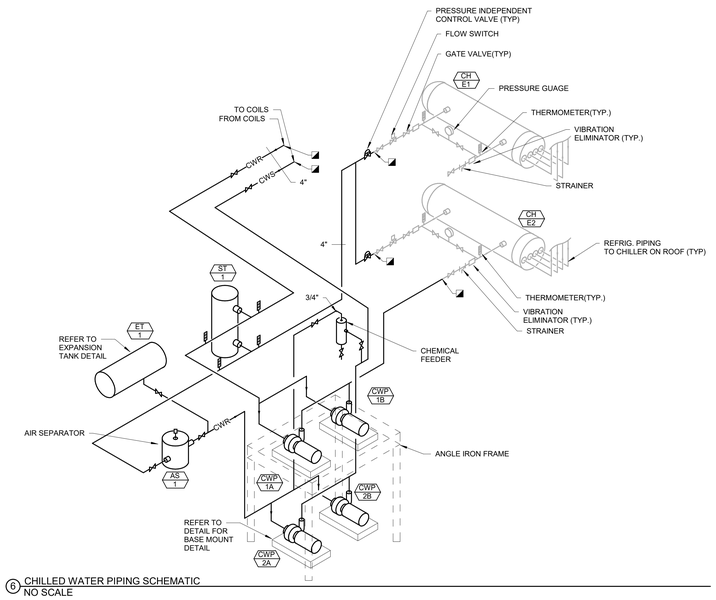
3 TEMPORARY CONNECTIONS FOR SYSTEM FLUSHING
NO SCALE



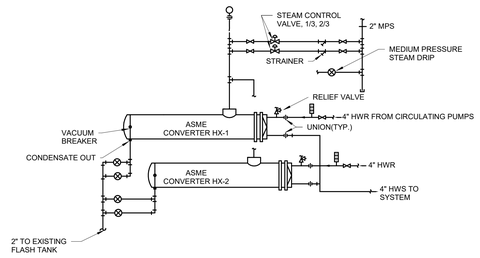
4 PLUMBING VENT DETAIL
NO SCALE



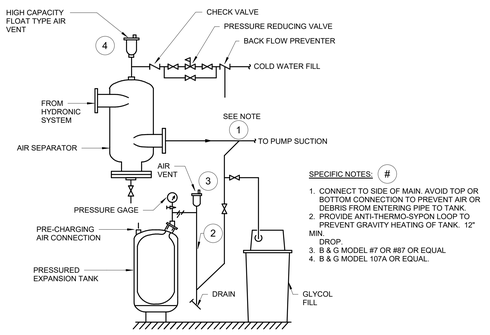
5 AHU DRAIN TRAP DETAIL
NO SCALE



6 CHILLED WATER PIPING SCHEMATIC
NO SCALE



7 CONVERTER SCHEMATIC
NO SCALE



8 VERTICAL DIAPHRAM EXPANSION TANK DETAIL
NO SCALE

Revision#	Description	Date:

CONSULTANTS

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

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

ARCHITECT OF RECORD

A/E:
STONE GROUP ARCHITECTS

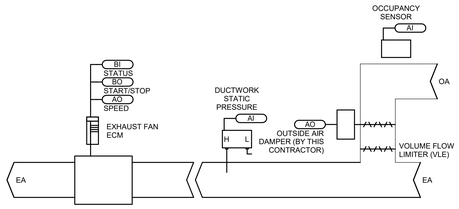
STAMP
REGISTERED PROFESSIONAL ENGINEER
REG. NO
8462
MICHAEL SEAN HENRICH
NORTH DAKOTA
7/28/2022

Office of Construction and Facilities Management

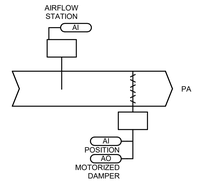
VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL DETAILS	Phase: CONSTRUCTION DOCUMENTS	Project Title: VA FM UPGRADE MENTAL HEALTH LOCK WARD	Project Number: VA #568-20-102 SGA ##211937
Approved:	FULLY SPRINKLERED	Location: FORT MEADE, SOUTH DAKOTA	Building Number: #148
		Issue Date: 08/26/2022 / Checked: MSH / Drawn: MMM/KJH	Drawing Number: MJ-501

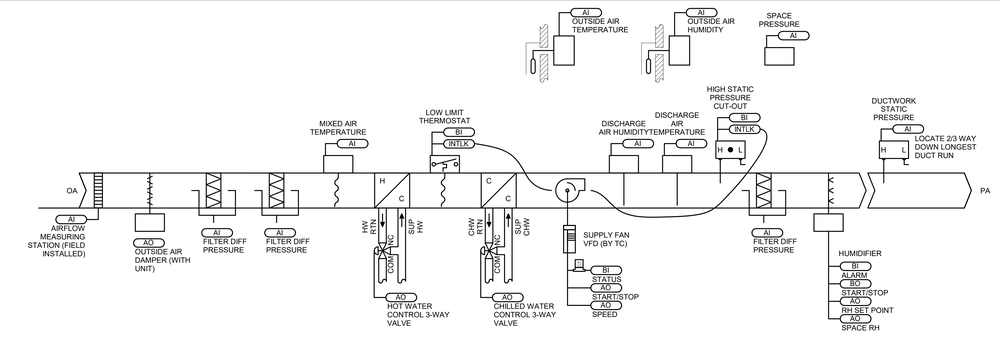
C:\Revit Local Files\2020\BR21045 - VA Ft Meade Upgrade Mental Health Locked Ward-MEP20-CENTRAL_michael.heinrich@westplainsengineering.com.rvt
8/30/2022 10:08:42 AM
three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot
VA FORM 08 - 6231



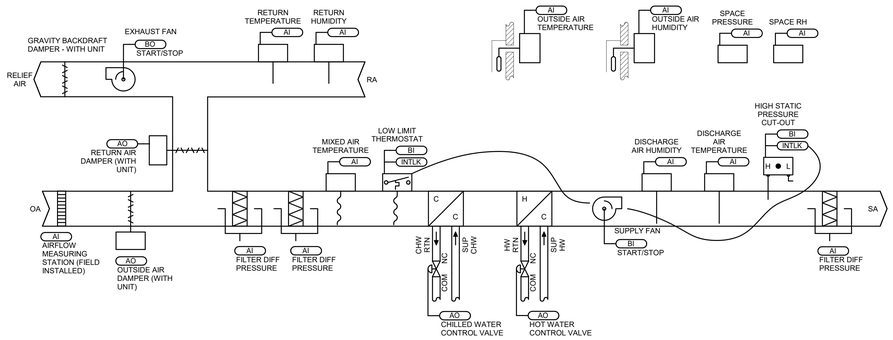
1 EXHAUST FAN SYSTEM DIAGRAM (ECM)
NO SCALE



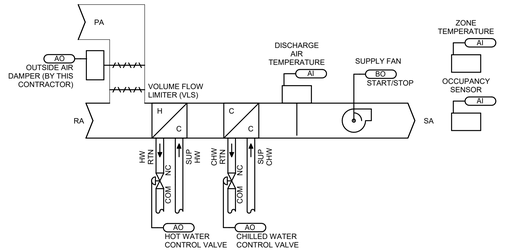
2 AIRFLOW STATION SERVING EXISTING FAN COIL DIAGRAM
NO SCALE



3 AIR HANDLING UNIT WITH POWERED EXHAUST SYSTEM DIAGRAM
NO SCALE



4 ROOFTOP UNIT WITH POWERED EXHAUST SYSTEM DIAGRAM
NO SCALE



5 BLOWER COIL UNIT SYSTEM DIAGRAM
NOSCALE

SEQUENCE OF OPERATIONS FOR HVAC CONTROLS

EXHAUST FANS
- A. EF-01 and EF-02:
  1. These fans shall be interlocked to operate in conjunction with the associated fan coil units in the occupied mode. Occupied mode shall be based off of operation of the lights within the associated spaces.
  2. For EF-01, a duct static pressure sensor shall modulate the ECM motor to maintain the duct static pressure.
  3. For EF-02, the unit shall operate in conjunction with the occupied mode of the fan coils in the dining area.
  4. The TC system shall initiate an alarm if the fan status doesn't match the command point.

BLOWER COIL UNITS:
- A. Occupied Mode:
  1. Single temperature unit mounted thermostat set at 75 degrees F (adj) maintains constant space temperature by modulating two-way control heating valve and two-way or three-way cooling control valve depending on call for heating and/or cooling.
     a. Provide three-way chilled water control valve for FC-16, 17, and 18.
  2. During occupied operation, initiated via a relay or CT sensor (by this contractor) on the lighting circuit for the space, the BAS shall open the motorized dampers serving the VLS and VLE to provide fresh air and exhaust for the associated space. For the dining area, the exhaust fan shall be initiated in lieu of operating the VLE.
  3. The dampers shall stay open a minimum of 1 hrs (adj) for offices and 8 hrs (adj) for patient rooms after lighting circuit to space is deactivated. The lengthened time for patient rooms will account for any patient occupancy while they are sleeping.
- B. Unoccupied Mode:
  1. Single temperature unit mounted thermostat set maintains a reduced space temperature by modulating two-way control heating valve and two-way cooling control valve depending on call for heating and/or cooling.
  2. During unoccupied operation after the delay as stated above, the BAS shall close the motorized dampers serving the VLS and VLE to provide fresh air and exhaust for the associated space.

RADIANT PANEL:
- A. Occupied Mode:
  1. Single temperature unit mounted thermostat set at 75 degrees F (adj) maintains constant space temperature by modulating two-way control heating valve on call for heating.
- B. Unoccupied Mode:
  1. Single temperature unit mounted thermostat set maintains a reduced space temperature by modulating two-way control heating valve on call for heating.

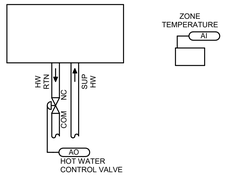
AIR FLOW STATIONS:
- A. Occupied Mode:
  1. During occupied operation (based on a timeclock), the BAS shall modulate the motorized damper to maintain the outside airflow rate as per the airflow station (by this contractor).
- B. Unoccupied Mode:
  1. During unoccupied operation (based on a timeclock), the BAS shall close the associated motorized dampers for the spaces.

VARIABLE VOLUME INDOOR AIR HANDLING UNIT (AHU-1):
- A. During occupied operation, the BAS shall index the supply fan in the AHU to run continuously. Provide a current switch on fan and alarm BAS workstation when the fan fails to operate when called upon to do so.
- B. The BAS shall maintain the desired discharge air temperature by modulating the cooling and heating coil control valves. The BAS shall reset the discharge air temperature from 55 degrees F (summer) to 60 degrees F (winter).
- C. The BAS shall utilize an air flow measuring station installed remote from the AHU in the outside air ductwork to monitor the quantity of outside air.
- D. During unoccupied mode, the outside air damper shall be fully closed.
- E. Provide differential pressure sensors across AHU filter bank to monitor pressure drop and alarm BAS whenever the differential pressure exceeds 0.8" wc (adj).
- F. Provide freezestat downstream of the cooling coil to shut off supply fan whenever the temperature reaches 10F.
- G. Provide air temperature sensor upstream of the heating coil for monitoring only.
- H. A high duct static pressure switch, located in the supply air ductwork close to the AHU connection, shall stop the supply fan and send an alarm to the BAS operator workstation whenever the duct static pressure exceeds 3" w.g.
- I. The BAS, with its duct static pressure sensor located 2/3 the way down longest run of supply ductwork (refer to plans for locations), shall maintain the supply air static pressure of by modulating the ECM motor on the AHU supply fan.
- J. Humidistats located in rooms D110and DC101 shall signal the humidifier control valve to modulate as required to maintain a 30% relative humidity (adj).

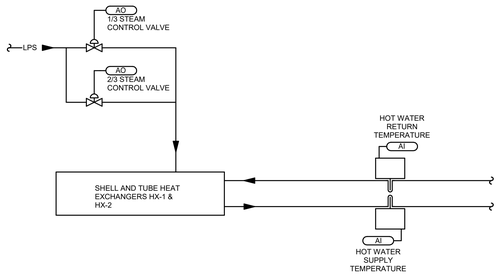
HEATING WATER ZONE CONTROL
- A. VFD shall provide on/off indication.
- B. Control heating water supply temperature set at 140 degrees F (60 degrees C) in accordance with outdoor reset schedule by modulating steam control valve on the heat exchangers. The steam to hot water converters shall have a 1/3 valve and a 2/3 valve to control the heating water to the reset schedule.
- C. Control heating water at maximum 140 degrees F (60 degrees C) at outdoor temperature of -20 degrees F (-30 degrees C), and minimum 110 degrees F (45 degrees C) at outdoor temperature of 65 degrees F (18 degrees C), with straight line relationship between. Temperatures shall be adjustable
- D. On outside temperatures above 65 degrees F (18 degrees C) (adj.), de-energize heating pumps and suppress alarm. The lead pump shall continue to operate for 5 minutes (adj.) following the disabling of the heating system to dissipate heat.

HEATING LOOP CIRCULATING PUMPS:
- A. The zone which cannot meet its heating setpoint shall signal the heating water pump to start.
- B. The pumps shall have a rotating auto restart and auto lead/lag. One of the two pumps shall operate continuously when a zone cannot maintain the heating setpoint. If one pump fails to operate or fails to start, the other pump shall start.
- C. Lead/lag rotation shall be adjustable. Initial setting shall be the first Tuesday of the month at 10 am.
- D. Both pumps are operated on variable speed and will receive a 4 to 20 milliamp signal to maintain the dominate differential pressure setpoint. Refer to the plans for differential pressure sensor locations.
- E. Sensors, control wiring, and conduit shall be provided by this contractor.
- F. Variable Frequency Drive (Specified under Division 26) shall be by this contractor.
- G. Provide a flow meter/transmitter within the heating water loop in the mechanical room for determination of the building heating requirements.
- H. The TC system shall initiate an alarm if the VFD and pump status doesn't match the command point.
- I. Display:
  1. System graphic.
  2. System supply temperature.
  3. System supply control point adjustment.
  4. System return temperature.
  5. Pump on/off indication.

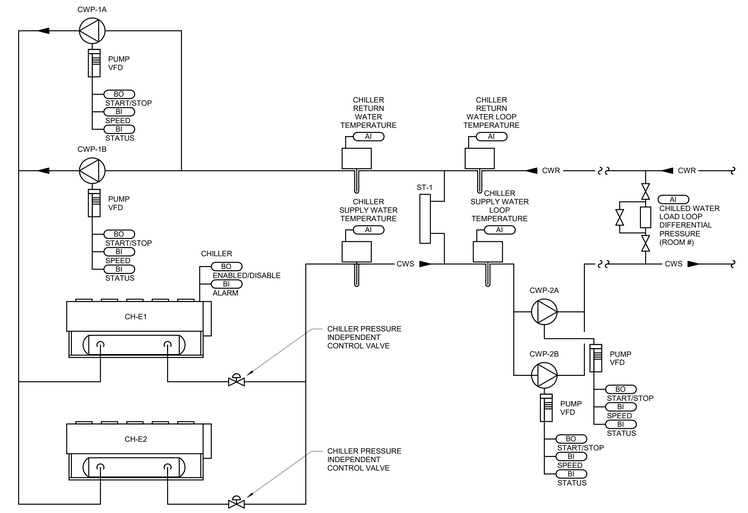
CENTRAL REFRIGERATION SYSTEMS (AIR COOLED):
- A. When the building has a call for cooling and the outside air temperature is above 65°F (adj.), energize the chilled water pumps and chillers.
- B. The chilled water loop pumps shall have a rotating auto restart and auto lead/lag. One of the two secondary loop pumps shall operate continuously when a zone cannot maintain the cooling setpoint. If one pump fails to operate or fails to start, the other pump shall start.
- C. One of the (2) chillers and an associated primary chiller pump shall be enable to maintain the chilled water loop supply water temperature at 48°F (adj). Chiller discharge water temperature shall be set at 44°F (adj). The pressure independent control valve serving the primary chiller shall modulate between 90 gpm (adj) and 120 gpm (adj) to maintain chilled water loop supply temperature. If the lead chiller is at maximum gpm and cannot maintain loop temperature, the lead chiller shall be disabled, both pumps shall be enabled, each pressure independent control valve shall be set to 90 gpm (adj), and then both chillers shall be enabled. Chilled water flow shall then be adjusted to a maximum of 120 gpm (adj) for each chiller as necessary to maintain the chilled water loop supply temperature.
  1. Maximum rate of change of the chilled water flow through the chiller shall be no more than 20% change per minute (adj.).
- D. Lead/lag rotation shall be adjustable. Initial setting shall be the first Tuesday of the month at 10 am.
- E. Both pumps are operated on variable speed and will receive a 4 to 20 milliamp signal to maintain the dominate differential pressure setpoint
- F. Variable Frequency Drive (Specified under Division 26) shall be by this contractor.
- G. Provide a flow meter/transmitter within the chilled water loop in the mechanical room for determination of the building cooling requirements.
- H. Sensors, control wiring, and conduit shall be provided by this contractor.
- I. The TC system shall initiate an alarm if the VFD and pump status doesn't match the command point.
- J. Display:
  1. System graphic.
  2. System supply temperature.
  3. System supply control point adjustment.
  4. System return temperature.
  5. Pump on/off indication.



6 RADIANT CEILING PANEL DIAGRAM
NO SCALE



7 CONVERTER SYSTEM DIAGRAM
NO SCALE



8 CHILLED WATER SYSTEM DIAGRAM
NO SCALE

C:\Revit Local Files\2020\BR21045 - VA Ft Meade Upgrade Mental Health Lockwd West-MEP20-CENTRAL_michael.heinrich@westplainsengineering.com.rvt

8/30/2022 10:08:42 AM

Revision#	Description	Date:

CONSULTANTS

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

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

ARCHITECT OF RECORD
A/E:
STONE GROUP ARCHITECTS

STAMP
REGISTERED PROFESSIONAL ENGINEER
REG. NO. 8462
MICHAEL SEAN HEINRICH
NORTH DAKOTA
8/26/22

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	MECHANICAL CONTROL DIAGRAMS
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	Checker
Drawn	Author
Project Number	VA #568-20-102 SGA ##211937
Building Number	#148
Drawing Number	MJ-502

VA FORM 08 - 6231

ASHRAE ROOM REQUIREMENTS SCHEDULE

HVAC ZONE	ROOM NUMBER	ROOM NAME	PEOPLE	INDOOR TEMP COOLING DEG F	INDOOR TEMP HEATING DEG F	% RH MAX	% RH MIN	AREA SF	CEILING HEIGHT FT	VOLUME CF	CODE MINIMUM OA ACH	CODE MINIMUM TOTAL ACH	CODE MINIMUM OA CFM	CODE MINIMUM TOTAL CFM	ROOM SUPPLY CFM	ROOM RETURN CFM	ROOM EXHAUST CFM	ROOM PRESSURE RELATIONSHIP	ROOM PRESSURE CONTROL	ASHRAE VENTILATION TABLE	ASHRAE VENTILATION CATEGORY	ASHRAE VENTILATION SUBCATEGORY	VA HVAC ROOM DATA SHEET CATAGORY	VA HVAC ROOM DATA SHEET SUBCATAGORY	INDIVIDUAL ROOM CONTROL TEMP	INDIVIDUAL ROOM CONTROL FLOW	COMMENTS
FC-01 & FC-02	C105	DINING	20	75	70	60	30	1029	9	9256.83	2	6	308.6	925.7	2300	2000	300	NEUTRAL	N/R	7-1	INPATIENT NURSING	NOURISHMENT AREA OR ROOM	MENTAL HEALTH INPATIENT	SL001: SOCIAL ACTIVITIES/ DINING/MULTI-PURPOSE	YES		1
FC-01 & FC-02	C105A	TOILET	0	N/A	68	N/A	30	41	9	371.5	0	10	0	61.9	0	0	100	NEGATIVE 2X	N/R	7-1	INPATIENT NURSING	TOILET ROOM	MENTAL HEALTH INPATIENT	TLTS2: PATIENT TOILET STANDARD	NO		
FC-01 & FC-02	C105B	PATIENT KITCHENETTE	0	75	70	60	30	101	9	908.98	2	6	30.3	90.9	100	50	50	N/R	N/R	N/R	N/R	N/R	MENTAL HEALTH INPATIENT	IPK01: KITCHENETTE	YES		3
FC-01 & FC-02	CC105	CORRIDOR	0	75	70	60	30	112	9	1004.29	2	4	33.5	67	0	0	0										2
FC-01 & FC-02	CHC3	CLOSET, FIRE SERVICE	0	N/A	N/A	N/A	N/A	29	9	264.97	0	0	0	0	0	0	0	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R		
FC-03	C104	GYM	4	75	70	60	30	150	9	1351.56	2	6	45.1	135.2	200	150	50	N/R	N/R	7-1	DIAGNOSTIC AND TREATMENT	PHYSICAL THERAPY	MENTAL HEALTH INPATIENT	DAYR1: RECREATION THERAPY ROOM	YES		
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	N/R	7-1	INPATIENT NURSING	PATIENT ROOM	MENTAL HEALTH INPATIENT	BRNP2: TWO BED PATIENT ROOM STANDARD	YES		
FC-05	D102	PATIENT LAUNDRY	2	75	70	60	30	169	9	1518.48	2	6	50.6	151.8	300	250	50	NEUTRAL	N/R	7-1	INPATIENT NURSING	PATIENT ROOM	MENTAL HEALTH INPATIENT	BRNP2: TWO BED PATIENT ROOM STANDARD	YES		
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	N/R	7-1	INPATIENT NURSING	PATIENT ROOM	MENTAL HEALTH INPATIENT	BRNP2: TWO BED PATIENT ROOM STANDARD	YES		
FC-07	D105	VISITORS	2	75	70	60	30	160	9	1435.76	2	6	47.9	143.6	300	250	50	NEUTRAL	N/R	7-1	INPATIENT NURSING	PATIENT ROOM	MENTAL HEALTH INPATIENT	BRNP2: TWO BED PATIENT ROOM STANDARD	YES		
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	N/R	N/R	7-1	INPATIENT NURSING	PATIENT ROOM	MENTAL HEALTH INPATIENT	BRNP2: TWO BED PATIENT ROOM STANDARD	YES		
FC-09	D108	EXAM	2	75	70	60	30	159	9	1426.91	2	6	47.6	142.7	300	250	50	N/R	N/R	7-1	INPATIENT NURSING	PATIENT ROOM	MENTAL HEALTH INPATIENT	BRNP2: TWO BED PATIENT ROOM STANDARD	YES		
FC-10A & FC-10B	D110	DAYROOM	10	75	70	60	30	429	9	3860.08	2	6	128.7	386	800	600	200	NEUTRAL	N/R	7-1			MENTAL HEALTH INPATIENT	DAYR1: DAY ROOM	YES		
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	N/R				MENTAL HEALTH INPATIENT	TLTS2: PATIENT TOILET STANDARD	NO		
FC-11A	D121	W RESTOOM	0	N/A	68	N/A	N/A	157	9	1409.77	0	10	0	235	200	0	240	NEGATIVE 2X	N/R				MENTAL HEALTH INPATIENT	TLTS2: PATIENT TOILET STANDARD	NO		
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	N/R	7-1	INPATIENT NURSING	TOILET ROOM	MENTAL HEALTH INPATIENT	TLTS2: PATIENT TOILET STANDARD	NO		
FC-12	D112	QUIET ROOM	2	75	70	60	30	233	9	2100.15	2	6	70	210	400	300	100	N/R	N/R	7-1	INPATIENT NURSING	PATIENT ROOM	MENTAL HEALTH INPATIENT	BRNP2: TWO BED PATIENT ROOM STANDARD	YES		
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	N/R	7-1	INPATIENT NURSING	PATIENT ROOM	MENTAL HEALTH INPATIENT	BRNP2: TWO BED PATIENT ROOM STANDARD	YES		
FC-14	D116	TWO-BED ROOM	2	75	70	60	30	262	9	2359.33	2	6	78.6	235.9	400	300	100	NEUTRAL	N/R	7-1	INPATIENT NURSING	PATIENT ROOM	MENTAL HEALTH INPATIENT	BRNP2: TWO BED PATIENT ROOM STANDARD	YES		
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	N/R	7-1	INPATIENT NURSING	PATIENT ROOM	MENTAL HEALTH INPATIENT	BRNP2: TWO BED PATIENT ROOM STANDARD	YES		
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	N/R	7-1	INPATIENT NURSING	PATIENT ROOM	MENTAL HEALTH INPATIENT	BRNP2: TWO BED PATIENT ROOM STANDARD	YES		
FC-17	D122	WOMEN'S / MED OBS ROOM	2	75	70	60	30	183	9	1646.94	2	6	54.9	164.7	400	300	100	N/R	N/R	7-1	INPATIENT NURSING	PATIENT ROOM	MENTAL HEALTH INPATIENT	BRNP2: TWO BED PATIENT ROOM STANDARD	YES		
FC-18	D124	ONE-BED ROOM	2	75	70	N/A	30	191	9	1719.39	2	6	57.3	171.9	400	300	100	N/R	N/R	7-1	INPATIENT NURSING	PATIENT ROOM	MENTAL HEALTH INPATIENT	BRNP2: TWO BED PATIENT ROOM STANDARD	YES		
FC-19	D126	ANTEROOM	0	75	70	60	30	58	9	523.68	2	4	17.5	34.9	50	0	0	NEUTRAL	N/R				MENTAL HEALTH INPATIENT	BRNP6: ANTE ROOM	YES		
FC-19	D126A	CLOSE OBSERVATION	1	75	70	60	30	125	9	1121.09	2	6	37.4	112.1	200	175	0	NEUTRAL	N/R	7-1	INPATIENT NURSING	PATIENT ROOM	MENTAL HEALTH INPATIENT	BRNP5: ISOLATION RESTRAINT ROOM / ISOLATION SECLUSION ROOM	YES		
FC-19	D126B	TOILET	0	N/A	68	N/A	30	78	9	699.03	0	10	0	116.5	0	0	150	NEGATIVE 2X	N/R	7-1	INPATIENT NURSING	TOILET ROOM	MENTAL HEALTH INPATIENT	TLTS3: PATIENT TOILET STANDARD	NO		
FC-20	D127	ANTEROOM	0	75	70	60	30	61	9	548.9	2	4	18.3	36.6	50	0	0	NEUTRAL	N/R	7-1			MENTAL HEALTH INPATIENT	BRNP6: ANTE ROOM	YES		
FC-20	D127A	CLOSE OBSERVATION	1	75	70	60	30	125	9	1129.1	2	6	37.6	112.9	200	175	0	NEUTRAL	N/R	7-1	INPATIENT NURSING	PATIENT ROOM	MENTAL HEALTH INPATIENT	BRNP5: ISOLATION RESTRAINT ROOM / ISOLATION SECLUSION ROOM	YES		
FC-21	D128	ANTEROOM	0	75	70	60	30	58	9	522.9	2	4	17.4	34.9	50	0	0	NEUTRAL	N/R	7-1			MENTAL HEALTH INPATIENT	BRNP6: ANTE ROOM	YES		
FC-21	D128A	CLOSE OBSERVATION	1	75	70	60	30	125	9	1129.1	2	6	37.6	112.9	200	175	0	NEUTRAL	N/R	7-1	INPATIENT NURSING	PATIENT ROOM	MENTAL HEALTH INPATIENT	BRNP5: ISOLATION RESTRAINT ROOM / ISOLATION SECLUSION ROOM	YES		
FC-22	D128B	TOILET	0	N/A	68	N/A	30	80	9	724.25	0	10	0	120.7	0	0	150	NEGATIVE 2X	N/R	7-1	INPATIENT NURSING	TOILET ROOM	MENTAL HEALTH INPATIENT	TLTS3: PATIENT TOILET STANDARD	NO		
FC-22	D129	ANTEROOM	0	75	70	60	30	58	9	524.47	2	4	17.5	35	50	0	0	NEUTRAL	N/R				MENTAL HEALTH INPATIENT	BRNP6: ANTE ROOM	YES		
FC-22	D129A	SECLUSION	1	75	70	60	30	125	9	1121.09	2	6	37.4	112.1	200	175	0	NEUTRAL	N/R	7-1	INPATIENT NURSING	PATIENT ROOM	MENTAL HEALTH INPATIENT	BRNP5: ISOLATION RESTRAINT ROOM / ISOLATION SECLUSION ROOM	YES		
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	N/R	7-1			NON PATIENT ROOMS - SUPPORT AREAS	SOILED UTILITY AND STORAGE ROOM	NO		
FC-37	D110A	RECREATION SUPPLIES	0	N/A	N/A	N/A	N/A	9	9	77.06	0	0	0	0	0	0	0	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R		
FC-37	D111	PATIENT LOCKERS	0	N/A	N/A	N/A	N/A	10	9	85.78	0	0	0	0	0	0	0	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R		
FC-37	D113	LINEN	0	N/A	N/A	N/A	N/A	19	9	172.78	0	0	0	0	0	0	0	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R		
FC-37	D117	STORAGE	0	N/A	N/A	N/A	N/A	10	9	88.88	0	0	0	0	0	0	0	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R		
FC-37	D123	GARBAGE CART	0	N/A	N/A	N/A	N/A	28	9	250.31	0	0	0	0	0	0	0	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R		
FC-37	DC100	N-S CORRIDOR	0	75	70	60	30	565	9	5086.61	2	4	169.6	339.1	500	330	0	POSITIVE 1X	N/R	7-1	INPATIENT NURSING	PATIENT CORRIDOR	NON PATIENT ROOMS - SUPPORT AREAS	CORRIDORS	YES		
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	N/R	7-1	INPATIENT NURSING	PATIENT CORRIDOR	NON PATIENT ROOMS - SUPPORT AREAS	CORRIDORS	YES		
N/A	D130	EQUIPMENT	0	N/A	N/A	N/A	N/A	210	9	1889.35	0	0	0	0	0	0	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										
RTU-1	D101	INTAKE ROOM	2	N/A	N/A	N/A	N/A	115	9	1031.41	0	4	0	68.8	125	125	0	POSITIVE 1X	N/R				NON PATIENT ROOMS - SUPPORT AREAS	CLEAN UTILITY/STORAGE ROOM	NO		
RTU-1	D106	REPORT / CONFERENCE ROOM	0	75	70	60	30	264	9	2372.12	2	4	79.1	158.1	750	750	0	NEGATIVE 1X	N/R				NON PATIENT ROOMS - SUPPORT AREAS	LOUNGE	YES		
RTU-1	D106A	TOILET, M STAFF	0	N/A	68	N/A	30	45	9	407.53	0	10	0	67.9	0	0	80	NEGATIVE 2X	N/R	7-1	INPATIENT NURSING	PATIENT ROOM	MENTAL HEALTH INPATIENT	TLTS2: PATIENT TOILET STANDARD	NO		
RTU-1	D106B	TOILET, F STAFF	0	N/A	68	N/A	30	45	9	407.53	0	10	0	67.9	0	0	80	NEGATIVE 2X	N/R	7-1	INPATIENT NURSING	TOILET ROOM	MENTAL HEALTH INPATIENT	TLTS2: PATIENT TOILET STANDARD	NO		
RTU-1	D109	NURSE STATION	4	75	70	60	30	361	9	3246.41	2	4	108.2	216.4	300	300	0	NEUTRAL	N/R	7-1			MENTAL HEALTH INPATIENT	NSTA1: NURSING STATION	YES		
RTU-1	D109A	MEDICATION	2	75	70	60	30	114	9	1026.37	2	4	34.2	68.4	125	125	0	NEUTRAL	N/R	7-1			MENTAL HEALTH INPATIENT	MEDP1: MEDICATION ROOM	YES		

COMMENTS:

1 300 CFM FROM ROOM

2 AIRFLOW PROVIDED AS PART OF SUPPLY FOR C105.

AIR HANDLING UNIT SCHEDULE

UNIT TYPE	UNIT NUMBER	MANUFACTURER	MODEL	LOCATION	COMMENTS	SHORT CIRCUIT CURRENT RATING	SUPPLY FAN CFM	SUPPLY FAN E.S.P.	SUPPLY FAN RPM	SUPPLY FAN TYPE	SUPPLY FAN HP	SUPPLY FAN VOLTAGE	SUPPLY FAN VIBRATION ISOLATION	PRE-FILTER A TYPE	PRE-FILTER A EFF.	PRE-FILTER B TYPE	PRE-FILTER B EFF.	FINAL FILTER TYPE	FINAL FILTER EFF.	COOLING COIL TYPE	COOLING COIL ROWS	COOLING COIL FPF	COOLING COIL GPM	COOLING COIL EAT DB	COOLING COIL EAT WB	COOLING COIL LAT DB	COOLING COIL LAT WB	COOLING COIL APD	COOLING COIL BTUH	COOLING COIL EWT	COOLING COIL LWT	COOLING COIL WPD	FACE VELOCITY	HEATING COIL TYPE	HEATING COIL ROWS	HEATING COIL FPF	HEATING COIL GPM	HEATING COIL EAT	HEATING COIL APD	HEATING COIL BTUH	HEATING COIL EWT	HEATING COIL LWT	HEATING COIL WPD	FACE VELOCITY
AHU	1	TRANE	UCCAM120F0RD	CM100			4160	3.5 in-wg	2138		5.375	460 V	INTERNAL	MERV8	35	MERV11	65	MERV15	95	1	6	168	82.35	97 °F	67 °F	55 °F	52 °F	0.45 in-wg	198030	48 °F	53 °F	18.42 ftH2O	350 FPM	1	2	108	55.5	-20 °F	0.10 in-wg	396380	140 °F	124 °F	9.2 ftH2O	350 FPM

COMMENTS:

1 SELECTED AT 3200 FT ELEVATION, 30% PROPYLENE GLYCOL (CHILLED AND HOT WATER COILS).

2 PROVIDE WITH 8" TALL RAILS.

3 SS DRAIN PAN FOR HUMIDIFIER AND COOLING COIL DOUBLE SLOPED FOR POSITIVE DRAINAGE.

4 ECM SUPPLY FAN.

5 PROVIDE WITH NORTEC SAM-E 24 HEADER WITH 3" CENTERS; CFM=4100, EAT= 55/49 DEG F, LAT=55/52 DEG F.

6 FINAL FILTERS ARE EXTERIOR OF THE UNIT AND ARE NOT INCLUDED AS PART OF THE UNIT TSP.

Sheet MJ503:

1. For Comment #5 under the Air Handling Unit Schedule, the steam humidifier shall be provided with 5 psi LPS steam at a load of 133 lbs/h. EAT= -20/-20 DEG F, LAT=55/52 DEG F. Humidifier shall be installed on the supply ductwork leaving the unit. Ductwork shall be stainless steel for 1 ft before and 4 ft after the humidifier, pitched to a drain, with a 3/4" condensate drain piped to the nearest floor drain.

BLOWER COIL UNIT SCHEDULE

UNIT TYPE	UNIT NUMBER	MANUFACTURER	MODEL	CFM	E.S.P.	HP	ELECTRIC VOLTAGE	ELECTRIC PHASES	ELECTRIC MCA	COOLING COIL BTUH	COOLING COIL GPM	COOLING COIL WPD	COOLING COIL EAT DB	COOLING COIL EAT WB	COOLING COIL LAT DB	COOLING COIL LAT WB	COOLING COIL EWT	COOLING COIL LWT	COOLING COIL % GLYCOL	HEATING COIL BTUH	HEATING COIL GPM	HEATING COIL WPD	HEATING COIL EAT	HEATING COIL EWT	HEATING COIL LWT	HEATING COIL % GLYCOL	COMMENTS
BC	01	TRANE	BCHD054A2M0A	1200	0.75 in-wg	0.5	120	1	9.33 A	25860	14.73	10.65 ftH2O	75 °F	60 °F	52 °F	52 °F	48 °F	52 °F	30%	46310	4.67	0.44 ftH2O	55 °F	140 °F	119 °F	30%	
BC	02	TRANE	BCHD054A2M0A	1200	0.75 in-wg	0.5	120	1	9.33 A	25860	14.73	10.65 ftH2O	75 °F	60 °F	52 °F	52 °F	48 °F	52 °F	30%	46310	4.67	0.44 ftH2O	55 °F	140 °F	119 °F	30%	
BC	03	TRANE	BCHD012A2M0A	250	0.75 in-wg	0.5	120	1	9.33 A	5370	1.87	2.77 ftH2O	75 °F	60 °F	52 °F	52 °F	48 °F	54 °F	30%	9650	0.79	0.77 ftH2O	55 °F	140 °F	114 °F	30%	
BC	04	TRANE	BCHD018A2M0A	300	0.75 in-wg	0.5	120	1	9.33 A	6440	2.11	3.56 ftH2O	75 °F	60 °F	52 °F	52 °F	48 °F	55 °F	30%	11580	0.84	0.95 ftH2O	55 °F	140 °F	111 °F	30%	
BC	05	TRANE	BCHD018A2M0A	300	0.75 in-wg	0.5	120	1	9.33 A	6440	2.11	3.56 ftH2O	75 °F	60 °F	52 °F	52 °F	48 °F	55 °F	30%	11580	0.84	0.95 ftH2O	55 °F	140 °F	111 °F	30%	
BC	06	TRANE	BCHD018A2M0A	300	0.75 in-wg	0.5	120	1	9.33 A	6440	2.11	3.56 ftH2O	75 °F	60 °F	52 °F	52 °F	48 °F	55 °F	30%	11580	0.84	0.95 ftH2O	55 °F	140 °F	111 °F	30%	
BC	07	TRANE	BCHD018A2M0A	300	0.75 in-wg	0.5	120	1	9.33 A	6440	2.11	3.56 ftH2O	75 °F	60 °F	52 °F	52 °F	48 °F	55 °F	30%	11580	0.84	0.95 ftH2O	55 °F	140 °F	111 °F	30%	
BC	08	TRANE	BCHD018A2M0A	300	0.75 in-wg	0.5	120	1	9.33 A	6440	2.11	3.56 ftH2O	75 °F	60 °F	52 °F	52 °F	48 °F	55 °F	30%	11580	0.84	0.95 ftH2O	55 °F	140 °F	111 °F	30%	
BC	09	TRANE	BCHD018A2M0A	300	0.75 in-wg	0.5	120	1	9.33 A	6440	2.11	3.56 ftH2O	75 °F	60 °F	52 °F	52 °F	48 °F	55 °F	30%	11580	0.84	0.95 ftH2O	55 °F	140 °F	111 °F	30%	
BC	10A	TRANE	BCHD024A2M0A	400	0.75 in-wg	0.5	120	1	9.33 A	8580	7.9	2.52 ftH2O	75 °F	60 °F	52 °F	52 °F	48 °F	56 °F	30%	15440	1.37	0.57 ftH2O	55 °F	140 °F	116 °F	30%	
BC	10B	TRANE	BCHD024A2M0A	400	0.75 in-wg	0.5	120	1	9.33 A	8580	7.9	2.52 ftH2O	75 °F	60 °F	52 °F	52 °F	48 °F	56 °F	30%	15440	1.37	0.57 ftH2O	55 °F	140 °F	116 °F	30%	
BC	11A	TRANE	BCHD024A2M0A	400	0.75 in-wg	0.5	120	1	9.33 A	8580	7.9	2.52 ftH2O	75 °F	60 °F	52 °F	52 °F	48 °F	56 °F	30%	15440	1.37	0.57 ftH2O	55 °F	140 °F	116 °F	30%	
BC	11B	TRANE	BCHD024A2M0A	400	0.75 in-wg	0.5	120	1	9.33 A	8580	7.9	2.52 ftH2O	75 °F	60 °F	52 °F	52 °F	48 °F	56 °F	30%	15440	1.37	0.57 ftH2O	55 °F	140 °F	116 °F	30%	
BC	12	TRANE	BCHD024A2M0A	400	0.75 in-wg	0.5	120	1	9.33 A	8580	7.9	2.52 ftH2O	75 °F	60 °F	52 °F	52 °F	48 °F	56 °F	30%	15440	1.37	0.57 ftH2O	55 °F	140 °F	116 °F	30%	
BC	13	TRANE	BCHD024A2M0A	400	0.75 in-wg	0.5	120	1	9.33 A	8580	7.9	2.52 ftH2O	75 °F	60 °F	52 °F	52 °F	48 °F	56 °F	30%	15440	1.37	0.57 ftH2O	55 °F	140 °F	116 °F	30%	
BC	14	TRANE	BCHD024A2M0A	400	0.75 in-wg	0.5	120	1	9.33 A	8580	7.9	2.52 ftH2O	75 °F	60 °F	52 °F	52 °F	48 °F	56 °F	30%	15440	1.37	0.57 ftH2O	55 °F	140 °F	116 °F	30%	
BC	15	TRANE	BCHD024A2M0A	400	0.75 in-wg	0.5	120	1	9.33 A	8580	7.9	2.52 ftH2O	75 °F	60 °F	52 °F	52 °F	48 °F	56 °F	30%	15440	1.37	0.57 ftH2O	55 °F	140 °F	116 °F	30%	
BC	16	TRANE	BCHD024A2M0A	400	0.75 in-wg	0.5	120	1	9.33 A	8580	7.9	2.52 ftH2O	75 °F	60 °F	52 °F	52 °F	48 °F	56 °F	30%	15440	1.37	0.57 ftH2O	55 °F	140 °F	116 °F	30%	
BC	17	TRANE	BCHD024A2M0A	400	0.75 in-wg	0.5	120	1	9.33 A	8580	7.9	2.52 ftH2O	75 °F	60 °F	52 °F	52 °F	48 °F	56 °F	30%	15440	1.37	0.57 ftH2O	55 °F	140 °F	116 °F	30%	
BC	18	TRANE	BCHD024A2M0A	400	0.75 in-wg	0.5	120	1	9.33 A	8580	7.9	2.52 ftH2O	75 °F	60 °F	52 °F	52 °F	48 °F	56 °F	30%	15440	1.37	0.57 ftH2O	55 °F	140 °F	116 °F	30%	
BC	19	TRANE	BCHD012A2M0A	250	0.75 in-wg	0.5	120	1	9.33 A	5370	1.87	2.77 ftH2O	75 °F	60 °F	52 °F	52 °F	48 °F	54 °F	30%	9650	0.79	0.77 ftH2O	55 °F	140 °F	114 °F	30%	
BC	20	TRANE	BCHD012A2M0A	250	0.75 in-wg	0.5	120	1	9.33 A	5370	1.87	2.77 ftH2O	75 °F	60 °F	52 °F	52 °F	48 °F	54 °F	30%	9650	0.79	0.77 ftH2O	55 °F	140 °F	114 °F	30%	
BC	21	TRANE	BCHD012A2M0A	250	0.75 in-wg	0.5	120	1	9.33 A	5370	1.87	2.77 ftH2O	75 °F	60 °F	52 °F	52 °F	48 °F	54 °F	30%	9650	0.79	0.77 ftH2O	55 °F	140 °F	114 °F	30%	
BC	22	TRANE	BCHD012A2M0A	250	0.75 in-wg	0.5	120	1	9.33 A	5370	1.87	2.77 ftH2O	75 °F	60 °F	52 °F	52 °F	48 °F	54 °F	30%	9650	0.79	0.77 ftH2O	55 °F	140 °F	114 °F	30%	
BC	37	TRANE	BCHD054A2M0A	1200	0.75 in-wg	0.5	120	1	9.33 A	25860	14.73	10.65 ftH2O	75 °F	60 °F	52 °F	52 °F	48 °F	52 °F	30%	46310	4.67	0.44 ftH2O	55 °F	140 °F	119 °F	30%	

COMMENTS

:

1 SELECTED AT 3200 FT ELEVATION.

2 ALL VALVES SHALL BE LOCATED IN CABINET AND SHALL BE INSTALLED ABOVE DRAIN PIPE.

3 PROVIDE UNIT MOUNTED DISCONNECT.

REGISTER GRILLES AND DIFFUSER SCHEDULE

UNIT TYPE	UNIT NUMBER	MANUFACTURER	MODEL	NOMINAL SIZE LENGTH	NOMINAL SIZE WIDTH	NOMINAL SIZE DIA.	THROAT SIZE LENGTH	THROAT SIZE WIDTH	THROAT SIZE DIA.	MAX CFM	THROW	S.P.D.	NC	FRAME	COMMENTS
S	1	KRUEGER	13SD	20"	10"		18"	8"		544	36	0.09 in-wg	30	SURFACE	1,2,3
R	1	KRUEGER	13SD	20"	10"		18"	8"		544	N/A	0.09 in-wg	30	SURFACE	1,2,3
R	2	KRUEGER	13SD	24"	24"		22"	22"		1000	N/A	0.05 in-wg	25	SURFACE	1,2,3
E	1	KRUEGER	13SD	12"	12"		10"	10"		300	N/A	0.06 in-wg	29	SURFACE	1,2,3

COMMENTS:

1 COORDINATE FRAME STYLE WITH CEILINGAND/OR WALL.

2 LIGATURE RESISTANT.

3 ARCHITECT TO SELECT COLOR OF GRILLE.

FAN SCHEDULE

UNIT TYPE	UNIT NUMBER	MANUFACTURER	MODEL	LOCATION	SERVICE	VIBRATION ISOLATION	CFM	S.P.D.	HP	VOLTAGE	PHASES	SONES	COMMENTS
EF	01	LOREN COOK COMPANY	SQND-HP VF	PENTHOUSE	EXHAUST	INTERNAL	2530	1.50 in-wg	1.5	208	3	15.1	1,2,3,4,5
EF	02	LOREN COOK COMPANY	120R17DOR80VF	ROOF	EXHAUST	INTERNAL	425	0.75 in-wg	0.25	208	1	13.9	1,2,3,4,5

COMMENTS:

1 SELECTED AT 3200 FT ELEVATION.

2 PROVIDE WITH THERMAL OVERLOAD.

3 PROVIDE WITH MOTORIZED DAMPER.

4 PROVIDE WITH RUBBER ISOLATORS.

5 PROVIDE WITH ECM MOTOR AND VARIABLE SPEED SWITCH/CONTROLLER.

PLUMBING FIXTURE SCHEDULE

UNIT TYPE	UNIT NUMBER	MANUFACTURER	MODEL	FIXTURE TYPE	WASTE	VENT	SUPPLY CW	SUPPLY HW	TRIM/REMARKS
P	1A	EXISTING FIXTURE		WATER CLOSET (WALLHUNG	4"	2"	1 1/4"		
P	2A	WHITEHALL MANUFACTURING	MH2158-2-SLPT-EB-EG10	LIGATURE RESISTANT URINAL (FV) 0.125 GPF MOUNT AT ADA HEIGHT	2"	1 1/2"	3/4"		WHITE POWDER COATED SS, SLOAN ROYAL 195ESS-0.125, PROVIDE TRANSFORMER/WIRING, AUTOMATIC FLUSH VALVE, 0.125 GPF, ADA COMPLIANT
P	3A	EXISTING FIXTURE		LAVATORY (WALLHUNG)	2"	1 1/2"	1/2"	1/2"	
P	4A	FILTRINE	B103-HR	BOTTLE FILLER ADA	2"	1 1/2"	1/2"		ANGLED TOP, TAMPER PROOF ASSEMBLY, 16 GA SS CONSTRUCTION, WHITE ENAMEL POWDER COAT, LIG

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 ftH2O	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 ftH2O	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 ftH2O	70 °F	30	0.33 hp	1140	120	1	1

COMMENTS:
1 SELECTED AT 3200 FT ELEVATION.

VOLUME FLOW LIMITER SCHEDULE

UNIT TYPE	UNIT NUMBER	MANUFACTURER	MODEL	SIZE	INLET DUCT SIZE	CFM	CFM MAXIMUM	CFM MINIMUM	COMMENTS
VFE	04	RUSKIN	ABD	4	4 in	50	125	30	
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).

ROOF TOP UNIT SCHEDULE

UNIT TYPE	UNIT NUMBER	MANUFACTURER	MODEL	LOCATION	CFM	MIN O.A. CFM	E.S.P.	RPM	DX COOLING SECTION						SCCR	ELECTRICAL			COMMENTS
									EAT		LAT		CAP BTUH	AMB DB		VOLTAGE	PHASES	MCA	
									DB	WB	DB	WB							
RTU	1	TRANE	HORIZON B036	ROOF	1300	300	1.75 in-wg	1968	78 °F	63 °F	55 °F	53 °F	37600	95 °F		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 PREFILTER B BETWEEN MERV 8 PREFILTER A AND COIL.
6 PROVIDE WITH MERV 13 FILTER ROOF CURB.
7 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	#/HR 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 ftH2O	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 ftH2O	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 CONVERTORS.
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.

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.

PUMP SCHEDULE

UNIT TYPE	UNIT NUMBER	MANUFACTURER	MODEL	SERVICE	GPM	HEAD	IMPELLER SIZE	% GLYCOL	HP	VOLTAGE	PHASES	RPM	COMMENTS
CWP	1A	ARMSTRONG	4280 4X3X6	CHILLED WATER	240	30 ftH2O	6.06	30	3	208	3	1750	1,2,3,4,5
CWP	1B	ARMSTRONG	4280 4X3X6	CHILLED WATER	240	30 ftH2O	6.06	30	3	208	3	1750	1,2,3,4,5
CWP	2A	ARMSTRONG	4030 3X2X10	CHILLED WATER	250	70 ftH2O	9.02	30	7.5	208	3	1750	1,2,3,4,5
CWP	2B	ARMSTRONG	4030 3X2X10	CHILLED WATER	250	70 ftH2O	9.02	30	7.5	208	3	1750	1,2,3,4,5
HWP	1	ARMSTRONG	3X2.5X8	HEATING WATER	185	50 ftH2O	7.52	30	5	208	3	1750	1,2,3,4,5
HWP	2	ARMSTRONG	3X2.5X8	HEATING WATER	185	50 ftH2O	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	SIZE				COMMENTS
						GALLONS		LENGTH	DIAMETER	
						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
RCP	1	AIRTEX	HPH2448L PANEL	780	1 GPM	130 °F	70 °F	24	48	1,2

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 ftH2O	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.

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

CONSULTANTS

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

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

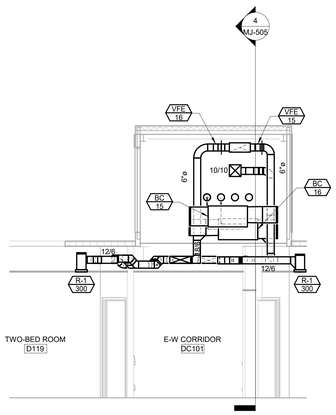
ARCHITECT OF RECORD
A/E:
STONE GROUP ARCHITECTS

STAMP

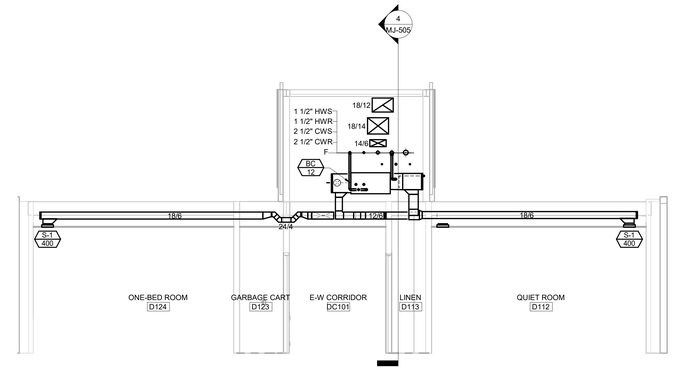
Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

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: Checker
Drawn: Author
Project Number: VA #568-20-102 SGA ##211937
Building Number: #148
Drawing Number: MJ-504

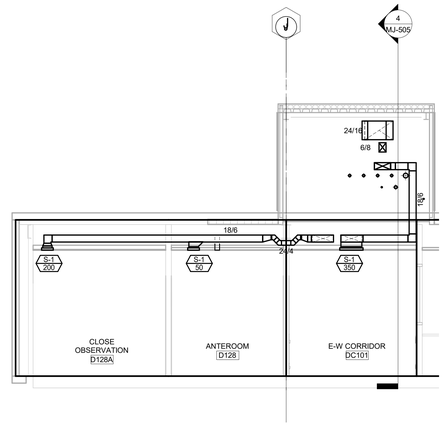
three inches = one foot 6"
one and one half inches = one foot 6" 1 0
one inch = one foot 6" 2 0
three quarters inch = one foot 6" 2 0
one half inch = one foot 0 4
three eighths inch = one foot 0 4
one quarter inch = one foot 0 8
one eighth inch = one foot 0 4 8 16
10/25/2022 2:13:22 PM
C:\Revit Local Files\2020\BR21045 - VA Ft Meade Upgrade Mental Health Locked Wards-MEP20-CENTRAL-POST_mschermerhorn@westplainsengineering.com.rvt
VA FORM 08 - 6231



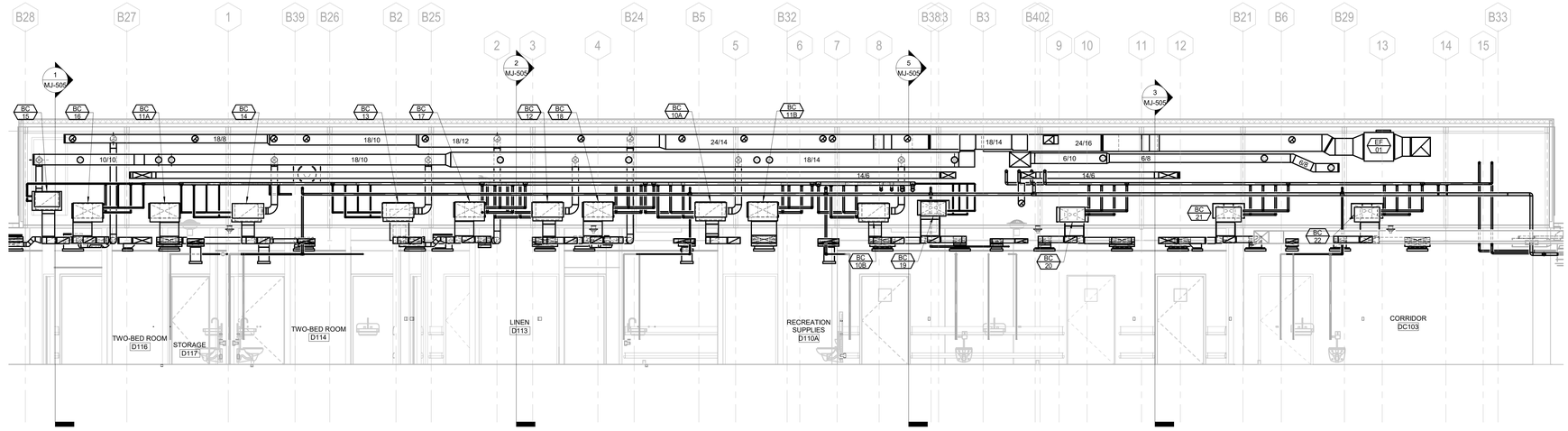
1 DC101 CORRIDOR EAST SECTION A
1/4" = 1'-0"



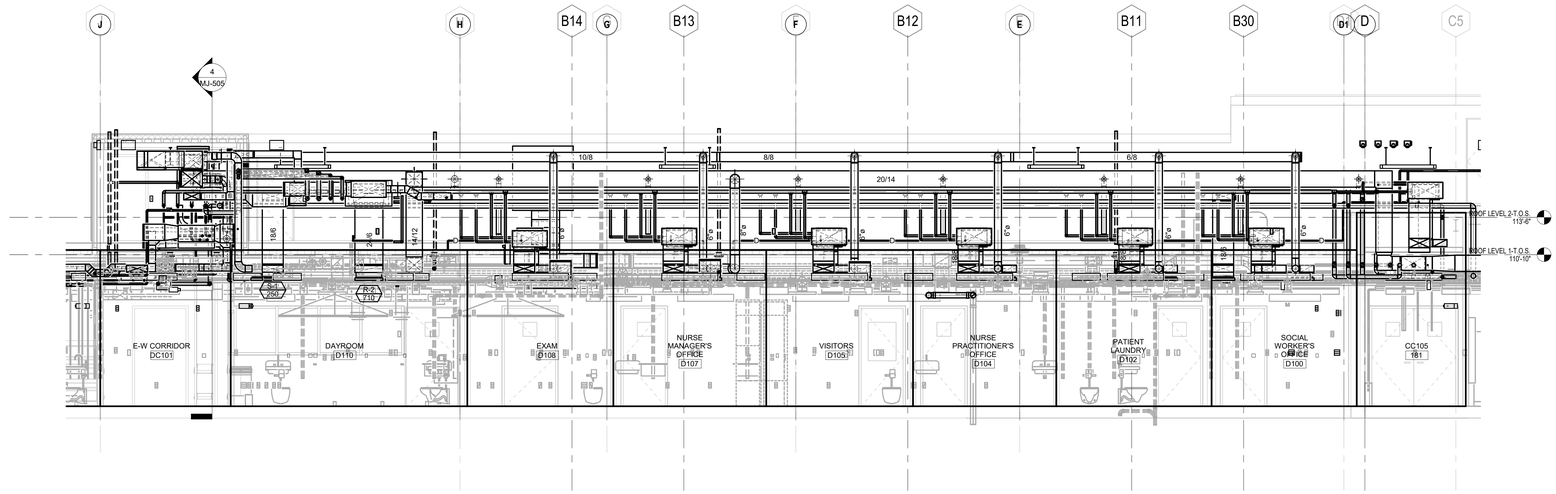
2 DC101 CORRIDOR EAST SECTION B
1/4" = 1'-0"



3 D128 ANTEROOM EAST SECTION
1/4" = 1'-0"



4 DC101 CORRIDOR NORTH SECTION
1/4" = 1'-0"



5 DC100 CORRIDOR EAST SECTION
1/4" = 1'-0"

Revision#	Description	Date:

CONSULTANTS

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

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

ARCHITECT OF RECORD
A/E:
STONE GROUP ARCHITECTS

STAMP
REGISTERED PROFESSIONAL ENGINEER
REG. NO.
8462
MICHAEL SEAN HENRICH
SOUTH DAKOTA
7/12/22

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

Drawing Title MECHANICAL SECTIONS	**Phase** CONSTRUCTION DOCUMENTS	**Project Title** VA FM UPGRADE MENTAL HEALTH LOCK WARD	**Project Number** VA #568-20-102 SGA ##211937
Approved:	FULLY SPRINKLERED	**Location** FORT MEADE, SOUTH DAKOTA	**Building Number** #148
		Issue Date 08/26/2022 · **Checked** Checker · **Drawn** Author	**Drawing Number** MJ-505

C:\Revit Local Files\2020\BR21045 - VA Ft Meade Upgrade Mental Health Locked Ward-MEP20-CENTRAL_michael.henrich@westplainsengineering.com.vvt
8/30/2022 10:09:09 AM
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

ELECTRICAL ABBREVIATIONS

A STANDARD LIST. NOT ALL WORDS APPEAR IN THESE DRAWINGS.

SEE SPECIFICATION SECTION "EQUIPMENT WIRING" FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

A or AMP	AMPERE	LA	LIGHTNING ARRESTOR
A/C	AIR CONDITIONING	LT	LIGHT
A/E or AE	ARCHITECT & ENGINEER	LTG	LIGHTING
ac	ABOVE COUNTER	LTS	LIGHTS
AC	ALTERNATING CURRENT		
ADA	AMERICANS WITH DISABILITIES ACT	MC	MECHANICAL CONTRACTOR
AFF	ABOVE FINISH FLOOR	MCB	MAIN CIRCUIT BREAKER
AFG	ABOVE FINISH GRADE	MCC	MOTOR CONTROL CENTER
AFI or AFCI	ARC FAULT CIRCUIT INTERRUPTER	MCM	THOUSAND CIRCULAR MILS
AHJ	AUTHORITY HAVING JURISDICTION	MDP	MAIN DISTRIBUTION PANEL
AHU	AIR HANDLING UNIT	MECH	MECHANICAL
AIC	AMPERES INTERRUPTING CURRENT	MFS	MAIN FUSIBLE SWITCH
AL	ALUMINUM	MH	METAL HALIDE
ANN	ANNUNCIATOR	MLO	MAIN LUG ONLY
AS	AUTOMATIC SENSORS	MSB	MAIN SWITCHBOARD
AWG	AMERICAN WIRE GAUGE	MTD	MOUNTED
		MTS	MOTOR THERMAL SWITCH
bc	BELOW COUNTER	MV	MERCURY VAPOR
BC	BELOW COUNTER	MW	MICROWAVE
BH	BASKETBALL HOOP OPER		
BL	BLEACHER ELECTRIC OPERATOR	NA or N/A	NOT APPLICABLE
BRD or BD	BOARD	NC	NORMALLY CLOSED
BUH	BLAST UNIT HEATER	NEC	NATIONAL ELECTRICAL CODE
		NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
C or COND	CONDUIT		
CB or CB	CIRCUIT BREAKER	NEU, NEUT or N	NEUTRAL
CAT	CATEGORY	NF	NON-FUSED
CCT or CKT	CIRCUIT	NL	NIGHT LIGHT
CM	CARBON MONOXIDE SENSOR	NO	NORMALLY OPEN
CO	CARBON MONOXIDE		
COMB	COMBINATION	OFF, OF, or OFC	OFFICE
CONF	CONFERENCE	OH	OVERHEAD
CP	CEILING PROJECTOR	OHD	OVERHEAD DOOR
CTC	CABLE TERMINATION CABINET		
Cu or CU	COPPER	P	POLE
CU	CONDENSING UNIT	PA	PUBLIC ADDRESS
CUH	CABINET UNIT HEATER	PB	PUSH BUTTON
		PH	PHASE
DC	DIRECT CURRENT	PLBG	PLUMBING
DC	DISTRIBUTION CABINET	PNL	PANEL
DP	DISTRIBUTION PANEL	PR or pr	PAIR
DISC	DISCONNECT	PRV	POWER ROOF VENTILATOR
DISP	DISPOSAL	PS	PULL SWITCH
DL	DOCK LEVELER	PS	PROJECTION SCREEN
DN or DWN	DOWN	PTZ	PAN TILT ZOOM
DR	DOOR	PVC	POLYVINYL CHLORIDE
DW	DISHWASHER	PWR	POWER
DWG	DRAWING		
		RCP	REFLECTED CEILING PLAN
EC	ELECTRICAL CONTRACTOR	REC or RECEPT	RECEPTACLE
EC	ELECTRICAL CABINET	REF or REFRIG	REFRIGERATOR
EF	EXHAUST FAN	RH	RADIANT HEAT
EH	ELECTRICAL HEAT	RH	RANGE HOOD
ELEC	ELECTRIC OR ELECTRICAL	RLY	RELAY
EHD	ELECTRIC HAND DRYER	RM	ROOM
EM or EMERG	EMERGENCY	RMS	ROOT MEAN SQUARE
EMT	ELECTRICAL METALLIC TUBING		
ENT	ELECTRICAL NON-METALLIC TUBING	SCC	SHORT CIRCUIT CURRENT
EUH	ELECTRIC UNIT HEATER	SD	SMOKE DETECTOR
EWC	ELECTRIC WATER COOLER	SFR	SAFETY RECEPTACLE
EX	EXISTING	SFTY	SAFETY
EXP	EXPLOSION PROOF	SHLD	SHIELD OR SHIELDED
		SIG	SIGNAL
F or FUS	FUSE OR FUSIBLE	SMR	SURFACE MOUNT RACEWAY
FA	FIRE ALARM	SN	SOLID NEUTRAL
FAAP	FIRE ALARM ANNUNCIATOR PANEL	SP	SUMP PUMP
FACP	FIRE ALARM CONTROL PANEL	SPECS	SPECIFICATIONS
FBO	FURNISHED BY OTHERS	SPKR	SPEAKER
FL, FLU or FLUOR	FLUORESCENT	SPR	SPLIT WIRE RECEPTACLE
FLA	FULL LOAD AMPERES	SW	SWITCH
FVNR	FULL VOLTAGE, NON-REVERSING	SWBD	SWITCH BOARD
FVR	FULL VOLTAGE, REVERSING		
		TC	TEMPERATURE CONTROL
GC	GENERAL CONTRACTOR	TC	TELEPHONE CABINET
GD	GARBAGE DISPOSAL	TCC	TEMPERATURE CONTROL CONTRACTOR
GEN	GENERATOR	TEL	TELEPHONE
GFI or GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TL	TWIST LOCK
GRC	GALVANIZED RIGID CONDUIT	TR, TRANS or TRFMR	TRANSFORMER
GND or GRND	GROUND	TTB	TELEPHONE TERMINATION BOARD
		TV	TELEVISION
H & AC	HEATING & AIR CONDITIONING	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
H & V	HEATING & VENTILATING	TYP	TYPICAL
HA	HANDICAP ACCESS DOOR		
HD	HAND DRYER	UG	UNDERGROUND
HID	HIGH INTENSITY DISCHARGE	UH	UNIT HEATER
HP	HORSE POWER	UV	UNIT VENTILATOR
HPS	HIGH PRESSURE SODIUM		
HTG	HEATING	V	VOLT
HTR	HEATER	VFD	VARIABLE FREQUENCY DRIVE
HVAC	HEATING, VENTILATION & AIR CONDITIONING		
HZ	HERTZ (CYCLES/SEC)	W	WATT
		W/	WITH
IC	INTERRUPTING CURRENT	W/O	WITHOUT
IGR	ISOLATED GROUND RECEPTACLE	WP	WEATHERPROOF
IMC	INTERMEDIATE METAL CONDUIT	WTR or H20	WATER
INC	INCANDESCENT	WS	WINDOW SHADE
ISO	ISOLATED OR ISOLATION		
		XFMR	TRANSFORMER
J, JB or J-BOX	JUNCTION BOX		
		Y	WYE CONNECTION
KCMIL	THOUSAND CIRCULAR MILS		
KV	KILOVOLT	ϕ	PHASE
KVA	KILOVOLT - AMPERE		
KVAR	KILOVOLT - AMPERE REACTIVE	Δ	DELTA
KW	KILOWATT		
KWH	KILOWATT - HOUR		

ELECTRICAL SYMBOLS

THESE SYMBOLS COMPRISE A STANDARD LIST; NOT ALL SYMBOLS MAY APPEAR ON THIS PROJECT.

ALL MOUNTING HEIGHTS ARE TO CENTER OF DEVICE ABOVE FINISHED FLOOR. MOUNTING HEIGHTS INDICATED ON ARCH. WALL ELEVATIONS ORAS NOTED SPECIFICALLY ON THE DRAWINGS OR IN THE SPECIFICATIONS SHALL TAKE PRECEDENCE OVER MOUNTING HEIGHTS LISTED BELOW.

LIGHTING

- CEILING SURFACE MOUNT FIXTURE. (Capital letter indicates fixture type. Small letter indicates switching. Typical for all fixture types.)
- EMERGENCY CEILING SURFACE MOUNT FIXTURE
- WALL FIXTURE
- EMERGENCY WALL FIXTURE
- RECESSED FIXTURE
- EMERGENCY RECESSED FIXTURE
- EXTERIOR POLE LIGHT
- BOLLARD LIGHT
- SURFACE MOUNT FIXTURE
- EMERGENCY SURFACE MOUNT FIXTURE
- RECESSED FIXTURE
- EMERGENCY RECESSED FIXTURE
- WALL FIXTURE
- FLOOD LIGHT
- TRACK LIGHT
- PHOTO ELECTRIC CELL
- LIGHTING CONTACTOR (54"M.H.)
- TIME CLOCK (60" M.H.)
- EMERGENCY LIGHTING W/BATTERY PACK
- CEILING EXIT LIGHT (FACE(S) SHADED, ARROW INDICATES CHEVRON)
- WALL EXIT LIGHT (FACE(S) SHADED, ARROW INDICATES CHEVRON)
- OCCUPANCY SENSOR
- SINGLE POLE SWITCH (48" M.H.)
- DOUBLE POLE SWITCH (48" M.H.)
- THREE-WAY SWITCH (48" M.H.)
- FOUR-WAY SWITCH (48" M.H.)
- SWITCH WITH PILOT (48" M.H.)
- KEY OPERATED SWITCH (48" M.H.)
- MOMENTARY CONTACT SWITCH (60" M.H.)
- DIMMER SWITCH (48" M.H.)
- TIMER SWITCH (60" M.H.)
- VARIABLE SPEED SWITCH
- FUSED SWITCH

POWER

- PUSH BUTTON STATION (52" M.H.)
- DOUBLE PUSH BUTTON STATION
- EMERGENCY SHUTDOWN PUSHBUTTON
- ISOLATED GROUND RECEPTACLE (18" M.H.)
- DUPLEX CONVENIENCE RECEPTACLE (18" M.H.)
- SINGLE RECEPTACLE (18" M.H.)
- DOUBLE DUPLEX CONVENIENCE RECEPTACLE (18" M.H.)
- DOUBLE DUPLEX CONVENIENCE RECEPTACLE (18" M.H.)
- SPLIT WIRED DUPLEX RECEPTACLE (18" M.H)
- SAFETY CONVENIENCE RECEPTACLE
- POWER RECEPTACLE
- EMERGENCY DUPLEX RECEPTACLE
- TWIST LOCK RECEPTACLE
- GFI DUPLEX CONVENIENCE RECEPTACLE
- GFI DOUBLE DUPLEX CONVENIENCE RECEPTACLE
- SPECIAL PURPOSE OUTLET OR CONNECTION
- CORD/PLUG
- CORD REEL
- CEILING DUPLEX RECEPTACLE
- FLUSH FLOOR DUPLEX RECEPTACLE
- FLUSH FLOOR DOUBLE DUPLEX RECEPTACLE
- FLUSH FLOOR MULTI-SERVICE OUTLET (WITH DEVICES INDICATED)
- MULTI-SERVICE POLE (WITH DEVICES INDICATED)
- BLANK OUTLET
- JUNCTION BOX
- PULL BOX
- MOTOR
- DISCONNECT SWITCH
- GENERATOR ANNUNCIATOR PANEL
- AUTOMATIC TRANSFER SWITCH
- VARIABLE FREQUENCY DRIVE
- COMBINATION VARIABLE FREQUENCY DRIVE DISCONNECT
- MAGNETIC STARTER
- COMBINATION STARTER/DISCONNECT
- MOTOR THERMAL SWITCH
- TRANSFORMER
- ELECTRIC METER
- SWITCHBOARD/DISTRIBUTION PANEL SECTION
- PANELBOARD OR LOAD CENTER
- PANELBOARD OR LOAD CENTER (EXISTING TO REMAIN)
- TRANSIENT VOLTAGE SURGE SUPPRESSER
- CIRCUIT BREAKER
- FUSE
- HUMIDISTAT
- THERMOSTAT
- REMOTE HVAC SENSOR
- RADIANT HEAT PANEL
- BASEBOARD OR COVE ELEC. HEAT
- ELECTRIC UNIT HEATER
- ELECTRIC CABINET UNIT HEATER
- MOTORIZED DAMPER
- BUS DUCT
- SURFACE MOUNT RACEWAY
- CEILING PADDLE FAN
- TYPE OF EQUIPMENT / EQUIPMENT NUMBER — SEE SCHEDULES
- ROOFTOP EQUIPMENT/CIRCUITING
- EXISTING EQUIPMENT/CIRCUITING
- GROUND
- CONDUIT IN FLOOR OR UNDERGROUND
- CONDUIT IN WALL OR CEILING SPACE. CROSS MARKS INDICATE NUMBER OF WIRES. NO MARKS INDICATE TWO WIRES. ARROWS INDICATE HOME RUNS TO PANEL. NUMBERS INDICATE PANEL AND CIRCUIT IN PANEL.
- SWITCHLEG
- TRAVELER
- HOT
- NEUTRAL WIRE
- INDICATES SEPARATE GROUND WIRE TO BE INSTALLED IN RACEWAY

TELECOM

- SPECIAL EQUIPMENT CABINET-AS NOTED
- TERMINATION BOARD - AS NOTED
- CABLE TRAY
- INTERCOM
- TELEPHONE/VOICE OUTLET (18" M.H.)
- WALL PHONE (40" M.H.)
- DATA OUTLET (18" M.H.)
- CEILING MOUNT DATA OUTLET
- COMBINATION VOICE/DATA OUTLET (18" M.H.)
- TELEVISION OUTLET (18" M.H.)
- BLANK OUTLET

FIRE ALARM

- FIRE ALARM MANUAL STATION (48" M.H.)
- HEAT DETECTOR (RATE OF RISE)
- HEAT DETECTOR (FIXED TEMP. ONLY)
- UNITARY TYPE SMOKE DETECTOR
- SMOKE DETECTOR
- DUCT SMOKE DETECTOR
- BEAM DETECTOR TRANSMITTER
- BEAM DETECTOR RECEIVER
- REMOTE TEST STATION
- COMB HEAT/SMOKE DETECTOR
- FLOW SWITCH
- PRESSURE SWITCH
- TAMPER SWITCH
- FIRE ALARM CUT-OFF RELAY
- REMOTE ANNUNCIATOR
- DOOR HOLDER
- MONITOR MODULE
- CONTROL MODULE
- FIRE ALARM CHIME/STROBE
- FIRE ALARM HORN/STROBE (80?M.H)
- CEILING MOUNT FIRE ALARM HORN/STROBE
- CEILING MOUNT FIRE ALARM SPEAKER
- CEILING MOUNT FIRE ALARM VOICE/STROBE
- MINI FIRE ALARM HORN
- MINI FIRE ALARM HORN/STROBE
- FIRE ALARM SPEAKER STROBE
- FIRE ALARM STROBE (80" M.H.)
- CEILING MOUNT FIRE ALARM STROBE
- FIRE ALARM BELL (88" M.H.)
- COMBINATION FIRE/SMOKE DAMPER
- FIRE ALARM ANNUNCIATOR PANEL
- FIRE ALARM CONTROL PANEL
- FIRE FIGHTER PHONE JACK

NURSE CALL

- SINGLE PATIENT NURSE CALL STATION (48" M.H.)
- DUAL PATIENT CURSE CALL STATION (48" M.H.)
- STAFF STATION (48" M.H.)
- STAFF EMERGENCY STATION (48" M.H.)
- EMERGENCY SHOWER/BATH STATION (48" M.H.)
- ALARM/REST STATION
- MASTER STATION
- CORRIDOR LAMP
- CEILING MOUNTED CORRIDOR LAMP
- ZONE LAMP
- CEILING MOUNTED ZONE LAMP
- ANTENNA (AS NOTED)
- AREA CONTROL MODULE
- DOOR SWITCH
- DUTY STATION (48" M.H.)
- DOMELESS CONTROLLER
- CODE BLUE STATION

SOUND AND SECURITY

- FLUSH SPEAKER
- SURFACE SPEAKER
- PAGING HORN
- COLUME CONTROL (48" M.H.)
- MICROPHONE OUTLET (18" M.H.)
- AUXILIARY OUTLET
- AMPLIFIER
- SURVEILLANCE VIDEO CAMERA
- CEILING MOUNTED SURVEILLANCE VIDEO CAMERA
- SURVEILLANCE VIDEO CAMERA - PANTILTZOOM
- SURVEILLANCE VIDEO MONITOR
- SURVEILLANCE VIDEO RECORDER
- SURVEILLANCE VIDEO SWITCHER
- ALARM CONTROL PANEL
- BURGLAR ALARM ANNUNCIATOR
- ANTENNA (AS NOTED)
- ALARM PANIC SWITCH
- DOOR ALARM KEYED SWITCH
- DOOR ALARM STROBE
- ALARM DOOR SWITCH
- DOOR RELEASE MECHANISM
- ALARM MOTION DETECTOR
- ALARM SHUNT PAD
- ALARM KEYPAD
- CARD READER
- SECURITY INTERCOM (54" M.H.)
- REQUEST EXIT PUSH BUTTON
- DOOR ALARM HORN
- DOOR ALARM KEYPAD

Revision#	Description	Date:

CONSULTANTS

MECHANICAL / ELECTRICAL / PLUMBING:

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

STRUCTURAL:

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

ARCHITECT OF RECORD

A/E:

STONE GROUP ARCHITECTS

STAMP

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL SYMBOLS & ABBREVIATIONS

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

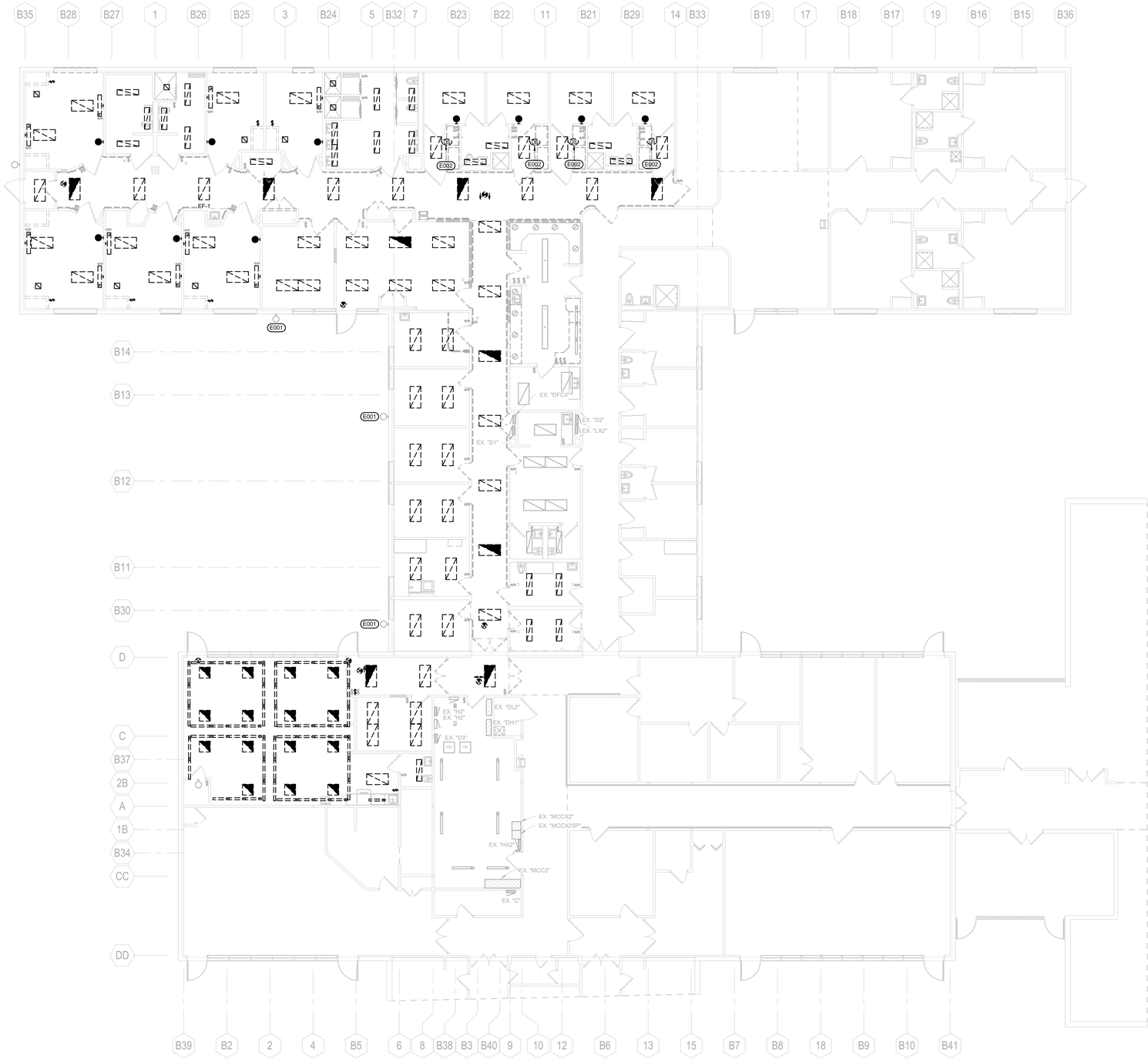
Drawing Number: EA-101

C:\Revit Local Files\2020\BR2-1045 - VA Ft Meade Upgrade Mental Health Locked Ward-MEP20-CENTRAL_michael.heinrich@westplainsengineering.com.rvt

8/30/2022 10:06:59 AM

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

VA FORM 08 - 6231



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

ELECTRICAL MISCELLANEOUS NOTES

A ALL FIXTURES, DEVICES AND EQUIPMENT SHOWN ON THIS PLAN ARE BASED ON OWNER'S EXISTING PLANS AND ON-SITE REVIEW OF THE FACILITY. QUANTITIES, TYPES, AND LOCATIONS OF ITEMS SHOWN ARE BELIEVED TO BE ACCURATE. HOWEVER, THESE DRAWINGS ARE NOT ALL INCLUSIVE AS THE AREAS BEING DEMOED AS PART OF THIS PROJECT WERE OCCUPIED AT THE TIME OF THE INVESTIGATION AND THERE MAYBE ITEMS THAT WERE HIDDEN BEHIND FURNITURE AND OTHER EQUIPMENT THAT COULD NOT BE SEEN. 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 REMODEL PROJECT.

B ALL LAMPS IN EXISTING FIXTURES BEING DEMOED SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH CURRENT REGULATIONS.

C THE VA SHALL HAVE FIRST RIGHTS TO SALVAGE ANY COMPONENETS. ALL ELECTRICAL ITEMS NOTED TO BE DEMOED 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 ITEMS SHOWN IN DARK OR DASHED PEN SHALL BE DEMOLISHED. ELECTRICAL ITEMS SHOWN IN LIGHT PEN ARE EXISTING TO REMAIN.

E EXISTING LIGHT FIXTURES SHOWN IN DARKDASHED PEN SHALL BE DEMOLISHED. THE ELECTRICAL CONTRACTOR SHALL REMOVE THE EXISTING CONDUIT AND CONDUCTOR THAT IS ABOVE THE CEILING TO ACCOMMODATE THE CEILING DEMOLITION AND RAISING OF THE CEILING TO 9'-0". THE ELECTRICAL CONTRACTOR SHALL REWIRE ALL OF THE LIGHTING TO ACCOMMODATE THE NEW CEILING HEIGHT. THE NEW LIGHTING SHALL BE RECONNECTED TO THE EXISTING CIRCUITS THAT IS CURRENTLY POWERING THE EXISTNG LIGHTING. EXISTING LIGHT FIXTURE CONTROLS SHALL REMAIN AND SHALL BE RECONNECTED TO THE NEW LIGHTING TO MAINTAIN HOW THE EXISTING LIGHTING IS CURRENTLY CONTROLLED. NEW CONDUIT AND CONDUCTOR SHALL BE PROVIDED AS REQUIRED.

F ALL CONDUIT, CONDUCTOR, 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 REWIRED/RECABLED TO ACCOMMODATE THE NEW CEILING AND HEIGHT. EXISTING PANELBOARD SCHEDULES HAVE BEEN PROVIDED FOR REFERENCE.

(#) ELECTRICAL SPECIFIC NOTES

E001 EXISTING EXTERIOR LIGHT FIXTURE IS TO REMAIN IN PLACE. THE ELECTRICAL CONTRACTOR SHALL ENSURE POWER TO AND CONTROL OF LIGHT FIXTURE REMAINS. THE ELECTRICAL CONTRACTOR SHALL REWIRE AS NECESSARY TO ACCOMMODATE INTERIOR CEILING REPLACEMENT AND RAISING.

E002 EXISTING OCCUPANCY SENSOR IS TO BE REMOVED TO ACCOMMODATE CEILING DEMOLITION AND RAISING. OCCUPANCY SENSOR SHALL BE REINSTALLED AND REWIRED TO CONTROL NEW LIGHTING AFTER NEW CEILING INSTALLATION.

Revision#	Description	Date:

CONSULTANTS

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

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

ARCHITECT OF RECORD

A/E:
STONE GROUP ARCHITECTS

STAMP

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: 1ST LEVEL LIGHTING 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 #568-20-102 SGA ##211937
Building Number: #148
Drawing Number: ED-101

C:\Revit Local Files\2020\BR2-1045 - VA Ft Meade Upgrade Mental Health Locked Ward-MEP20-CENTRAL_michael.heinrich@westplainsengineering.com.rvt
8/30/2022 10:07:00 AM
VA FORM 08 - 6231

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

ELECTRICAL MISCELLANEOUS NOTES

A ALL FIXTURES, DEVICES AND EQUIPMENT SHOWN ON THIS PLAN ARE BASED ON OWNER'S EXISTING PLANS AND ON-SITE REVIEW OF THE FACILITY. QUANTITIES, TYPES, AND LOCATIONS OF ITEMS SHOWN ARE BELIEVED TO BE ACCURATE. HOWEVER, THESE DRAWINGS ARE NOT ALL INCLUSIVE AS THE AREAS BEING DEMOED AS PART OF THIS PROJECT WERE OCCUPIED AT THE TIME OF THE INVESTIGATION AND THERE MAYBE ITEMS THAT WERE HIDDEN BEHIND FURNITURE AND OTHER EQUIPMENT THAT COULD NOT BE SEEN. 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 REMODEL PROJECT.

B ALL LAMPS IN EXISTING FIXTURES BEING DEMOED SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH CURRENT REGULATIONS.

C THE VA SHALL HAVE FIRST RIGHTS TO SALVAGE ANY COMPONENETS. ALL ELECTRICAL ITEMS NOTED TO BE DEMOED 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 ITEMS SHOWN IN DARK OR DASHED PEN SHALL BE DEMOLISHED. ELECTRICAL ITEMS SHOWN IN LIGHT PEN ARE EXISTING TO REMAIN.

E ALL CONDUIT, CONDUCTOR, 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 REWIRED/RECABLED TO ACCOMMODATE THE NEW CEILING AND HEIGHT. EXISTING PANELBOARD SCHEDULES HAVE BEEN PROVIDED FOR REFERENCE.

(#) ELECTRICAL SPECIFIC NOTES

E009 DISCONNECT EXISTING HVAC EQUIPMENT SO THAT IT CAN BE REMOVED. DEMOLISH CONDUIT AND CONDUCTOR FEEDING HVAC UNIT BACK TO THE SOURCE.

Revision#	Description	Date:

CONSULTANTS

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

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

ARCHITECT OF RECORD

A/E:
STONE GROUP ARCHITECTS

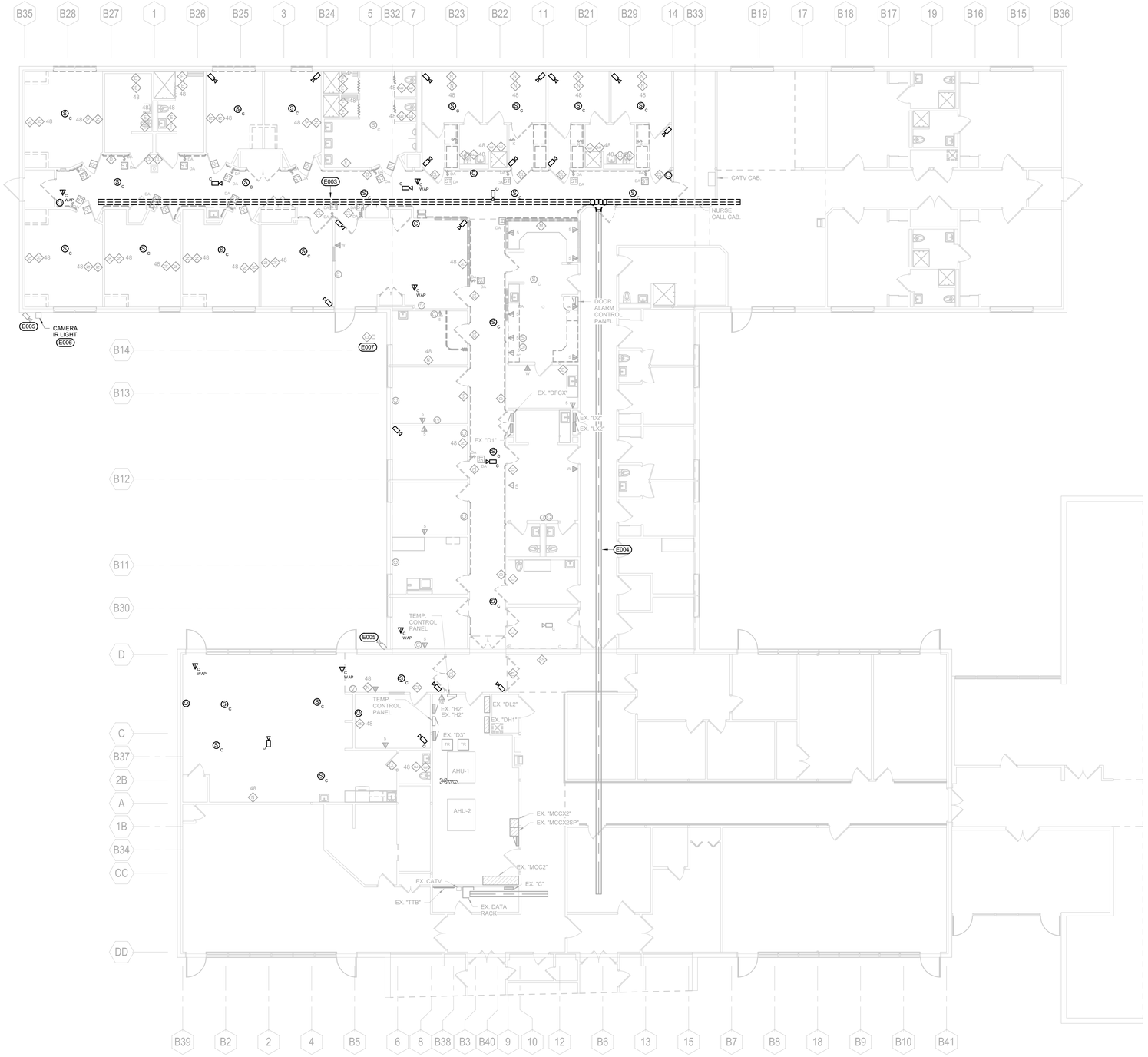
STAMP

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

Drawing Title: 1ST LEVEL POWER 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 #568-20-102 SGA ##211937
Building Number: #148
Drawing Number: ED-102

C:\Revit Local Files\2020\BR21045 - VA Ft Meade Upgrade Mental Health Locked Ward-MEP20-CENTRAL_michael.heinrich@westplainsengineering.com.rvt
8/30/2022 10:07:03 AM

VA FORM 08 - 6231



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

NORTH

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 DEMOED AS PART OF THIS PROJECT WERE OCCUPIED AT THE TIME OF THE INVESTIGATION AND THERE MAYBE ITEMS THAT WERE HIDDEN BEHIND FURNITURE AND OTHER EQUIPMENT THAT COULD NOT BE SEEN. 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 REMODEL PROJECT.

B ALL LAMPS IN EXISTING FIXTURES BEING DEMOED SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH CURRENT REGULATIONS.

C THE VA SHALL HAVE FIRST RIGHTS TO SALVAGE ANY COMPONENETS. ALL ELECTRICAL ITEMS NOTED TO BE DEMOED 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, CONDUCTOR, 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 REWIRED/RECABLED TO ACCOMMODATE THE NEW CEILING AND HEIGHT. EXISTING PANELBOARD 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 "J" 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 RECABLE TO ACCOMMODATE THE INTERIOR CEILING REPLACEMENT AND RAISING.

E006 EXISTING CCTV CAMERA IR LIGHT IS TO REMAIN IN PLACE. THE ELECTRICAL CONTRACTOR SHALL ENSURE POWER TO AND CONTROL REMAINS. THE ELECTRICAL CONTRACTOR SHALL REWIRE 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 RECABLE AS NECESSARY TO ACCOMMODATE THE INTERIOR CEILING REPLACEMENT AND RAISING.

Revision#	Description	Date:

CONSULTANTS

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

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

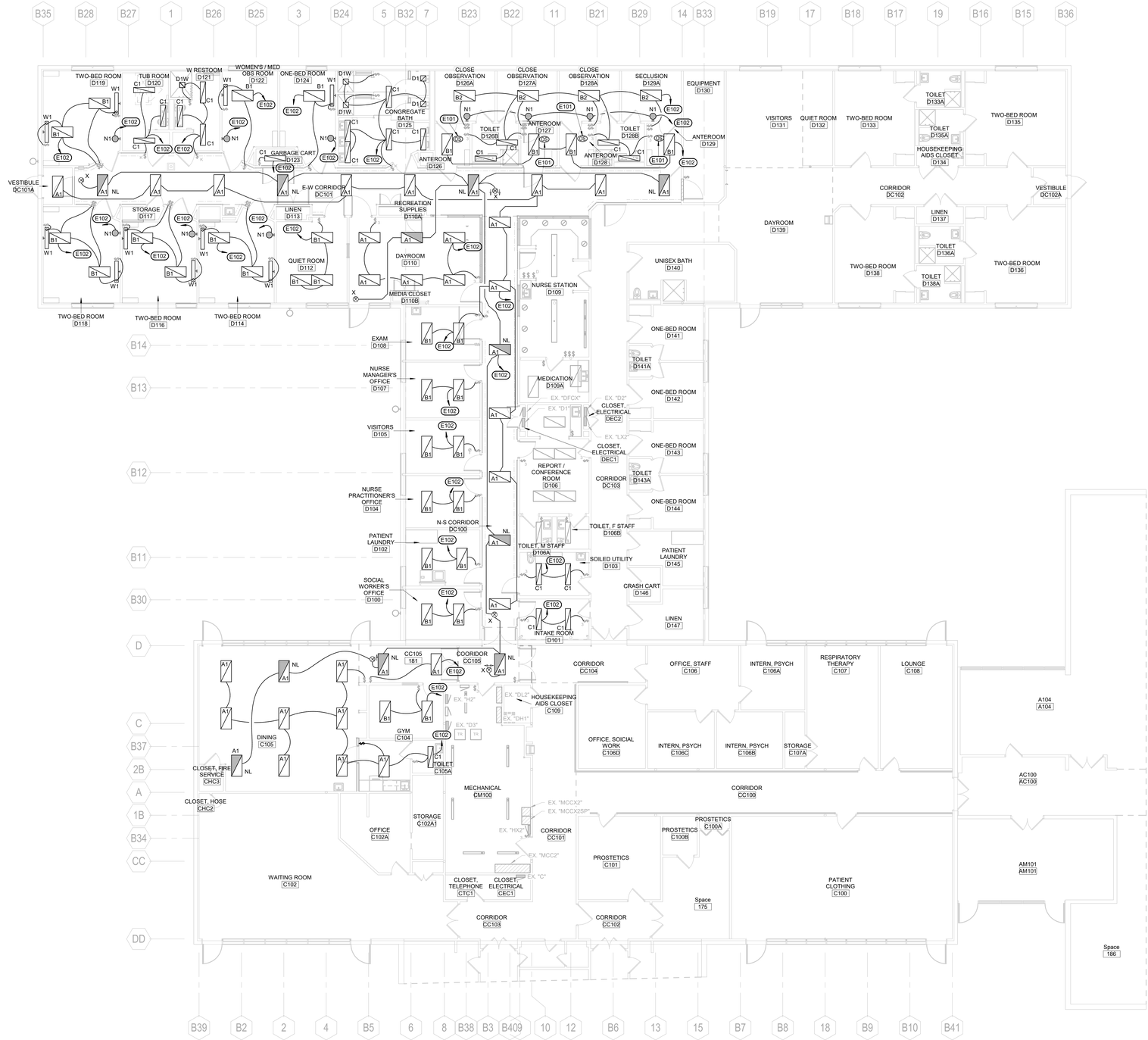
ARCHITECT OF RECORD
A/E:
STONE GROUP ARCHITECTS

STAMP

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 #568-20-102 SGA ##211937
Building Number: #148
Drawing Number: ED-103

C:\Revit Local Files\2022\BR21045 - VA Ft Meade Upgrade Mental Health Locked Ward-MEP20-CENTRAL_michael.heinrich@westplainsengineering.com.rvt
8/30/2022 10:07:05 AM
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
VA FORM 08 - 6231



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 FISHED 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, 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.

D A NEW PENTHOUSE/CHASEWAY IS BEING INSTALLED ON THE ROOF TO ACCOMMODATE NEW HVAC EQUIPMENT AND DUCTWORK INTALLATION. THE ELECTRICAL CONTRACTOR CAN UTILIZE THIS PENTHOUSE/CHASE WAY 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.

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

(x)

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.

Revision#	Description	Date:

CONSULTANTS

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

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

ARCHITECT OF RECORD

A/E:
STONE GROUP ARCHITECTS

STAMP

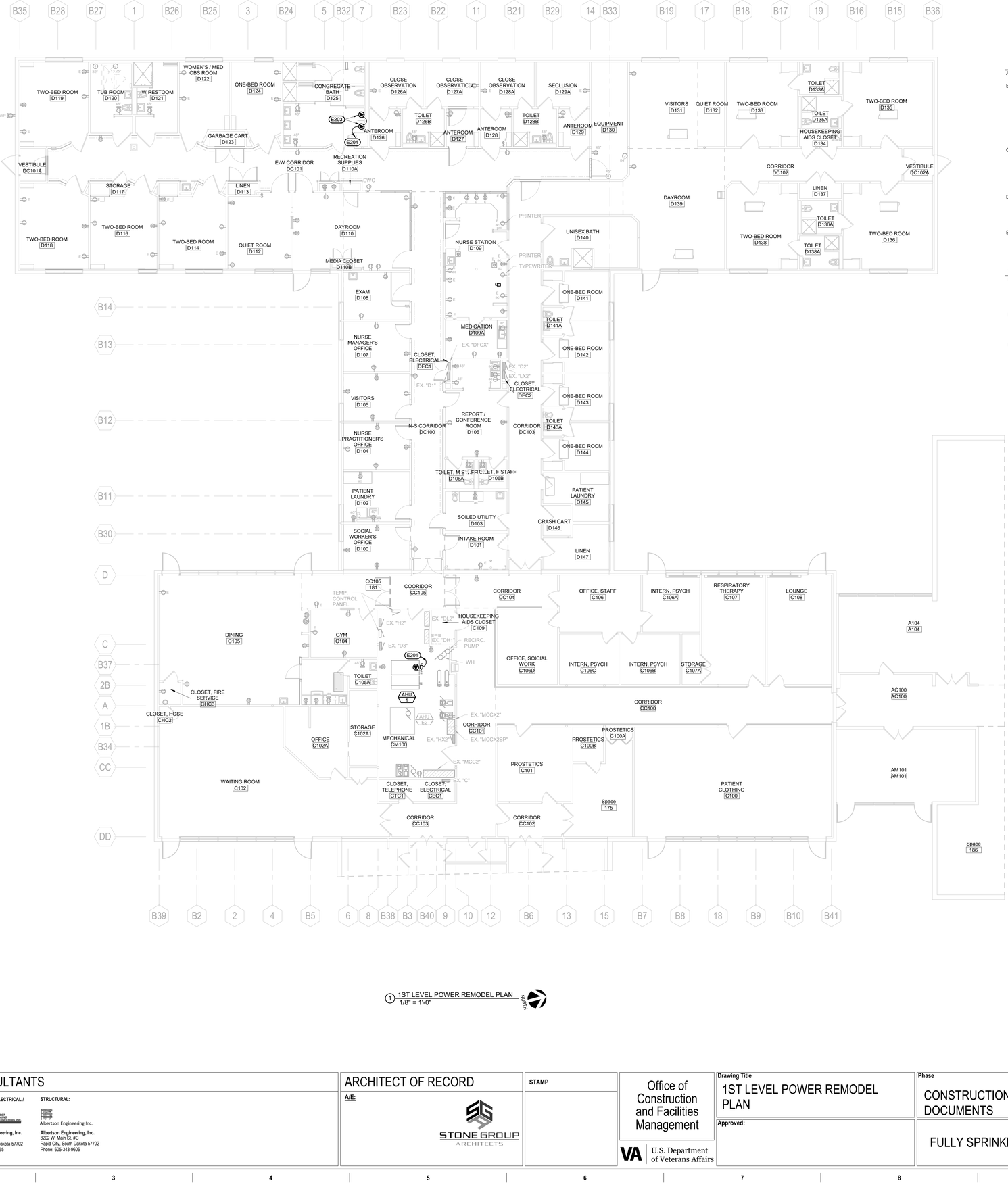
Office of Construction and Facilities Management

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

C:\Revit Local Files\2020\BR210405 - VA Ft Meade Upgrade Mental Health Locked Ward-MEP20-CENTRAL_michael.heinrich@westplainsengineering.com.rvt
8/30/2022 10:07:12 AM

VA FORM 08 - 6231



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

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, 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 INTALLATION. THE ELECTRICAL CONTRACTOR CAN UTILIZE THIS PENTHOUSE/CHASE WAY 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 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 #1214210955001001.

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.

Revision#	Description	Date:

CONSULTANTS

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

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

ARCHITECT OF RECORD

A/E:
STONE GROUP ARCHITECTS

STAMP

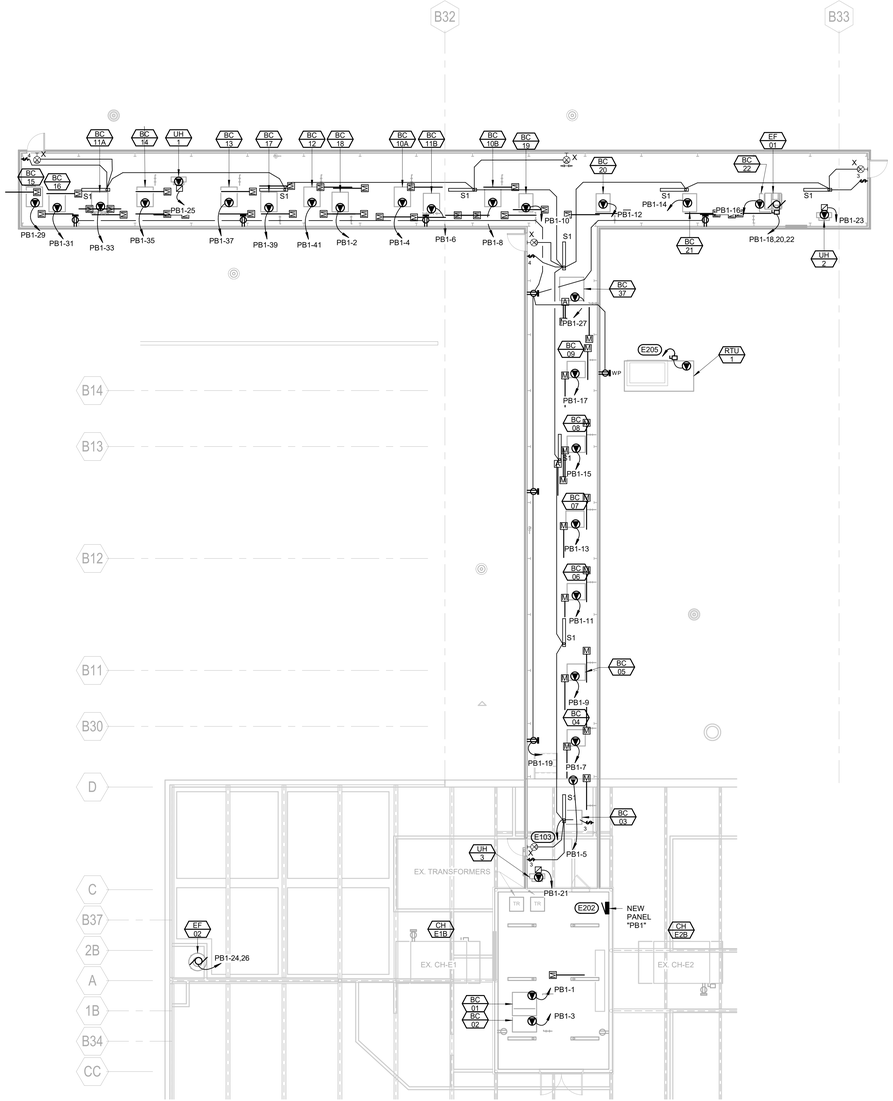
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: 1ST LEVEL POWER REMODEL PLAN	Phase: CONSTRUCTION DOCUMENTS	Project Title: VA FM UPGRADE MENTAL HEALTH LOCK WARD	Project Number: VA #568-20-102 SGA ##211937
Approved:	FULLY SPRINKLERED	Location: FORT MEADE, SOUTH DAKOTA	Building Number: #148
		Issue Date: 08/26/2022 / Checked: MKV / Drawn: VLS	Drawing Number: EP-301

VA FORM 08 - 6231

C:\Revit Local Files\2022\BR21045 - VA Ft Meade Upgrade Mental Health Locked Ward-MEP20-CENTRAL_michael.heinrich@westplainsengineering.com.rvt
8/30/2022 10:07:15 AM
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



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 FISHED INTO THE WALL BY THE CONTRACTOR.

B A NEW PENTHOUSE/CHASEWAY IS BEING INSTALLED ON THE ROOF TO ACCOMMODATE NEW HVAC EQUIPMENT AND DUCTWORK INTALLATION. THE ELECTRICAL CONTRACTOR CAN UTILIZE THIS PENTHOUSE/CHASE WAY 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 H2. UTILIZE ONE OF THE EXISTING SPARE 20A, 1POLE 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 200 AMP, 3 POLE CIRCUIT BREAKER IN EXISTING PANEL DL2. PROVIDE 2 1/2" CONDUIT WITH 4-#3/0 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.

Revision#	Description	Date:

CONSULTANTS

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

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

ARCHITECT OF RECORD

A/E:
STONE GROUP ARCHITECTS

STAMP

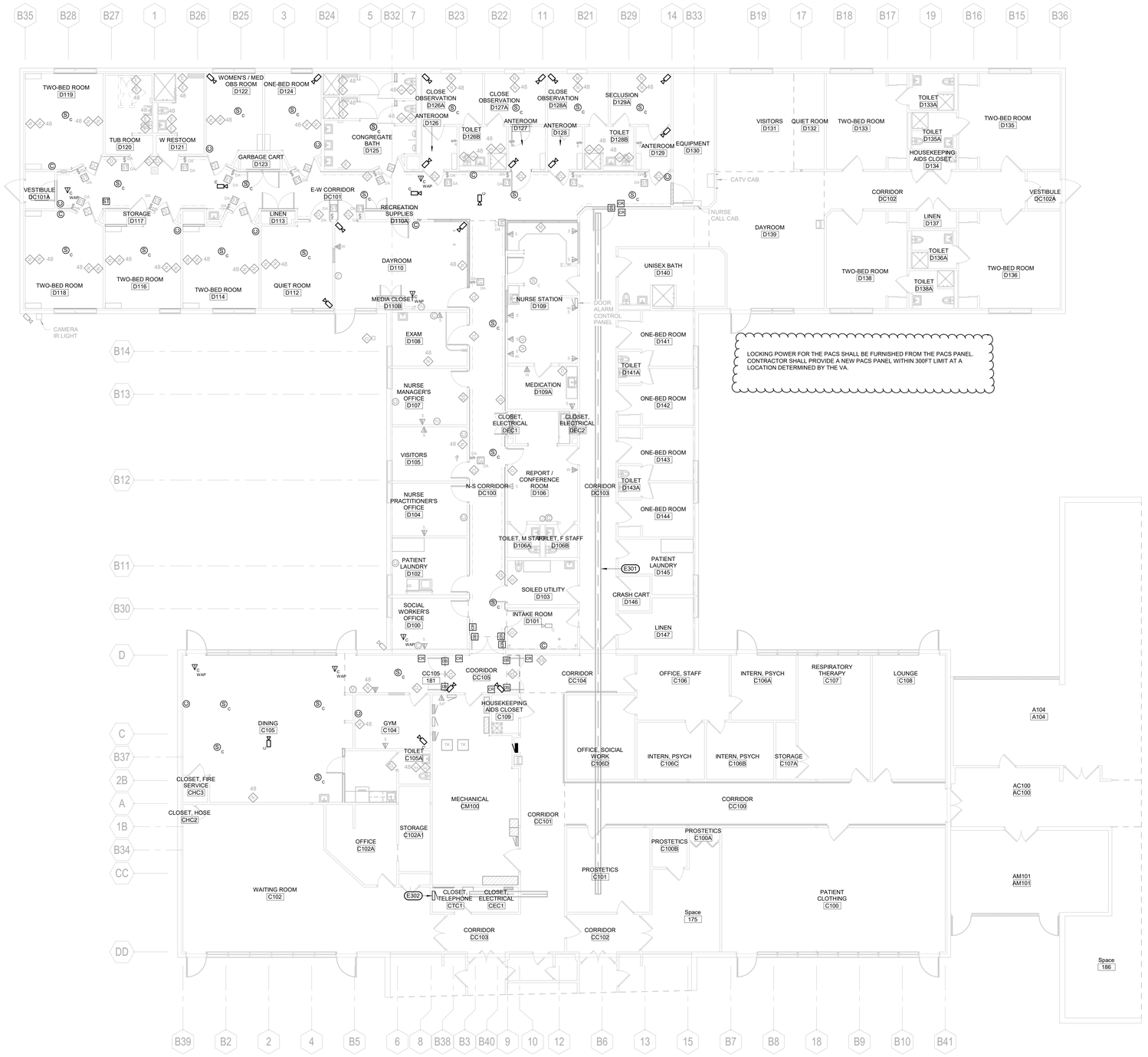
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	ROOF ELECTRICAL PLAN
Phase	CONSTRUCTION DOCUMENTS
Project Title	VA FM UPGRADE MENTAL HEALTH LOCK WARD
Project Number	VA #568-20-102 SGA ##211937
Building Number	#148
Approved:	
	FULLY SPRINKLERED
Location	FORT MEADE, SOUTH DAKOTA
Issue Date	08/26/2022
Checked	MKV
Drawn	VLS
Drawing Number	EP-302

C:\Revit Local Files\2020\BR2\1045 - VA Ft Meade Upgrade Mental Health Locked Ward-MEP20-CENTRAL_michael.heinrich@westplainsengineering.com.rvt
8/30/2022 10:07:16 AM

VA FORM 08 - 6231



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 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, 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 INTALLATION. THE ELECTRICAL CONTRACTOR CAN UTILIZE THIS PENTHOUSE/CHASE WAY 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/COMM 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 NO 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 #SBP-31F-406-0R 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 CTC1. PROVIDE A CAT 6A CABLE IN CONDUIT BACK TO TELEPHONE CLOSET CTC1. PROVIDE TERMINATIONS. PROVIDE ADDITIONAL PATCH PANELS AS REQUIRED FOR TERMINATION. THE CLOCK SHALL BE AN 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 SAPLING'S IP COMMUNICATION PROTOCOL, WHICH SHALL BE DELIVERED TO THE CLOCK THROUGH A CAT6 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.

Revision#	Description	Date:

CONSULTANTS

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

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

ARCHITECT OF RECORD

A/E: STONE GROUP ARCHITECTS

STAMP

Office of Construction and Facilities Management

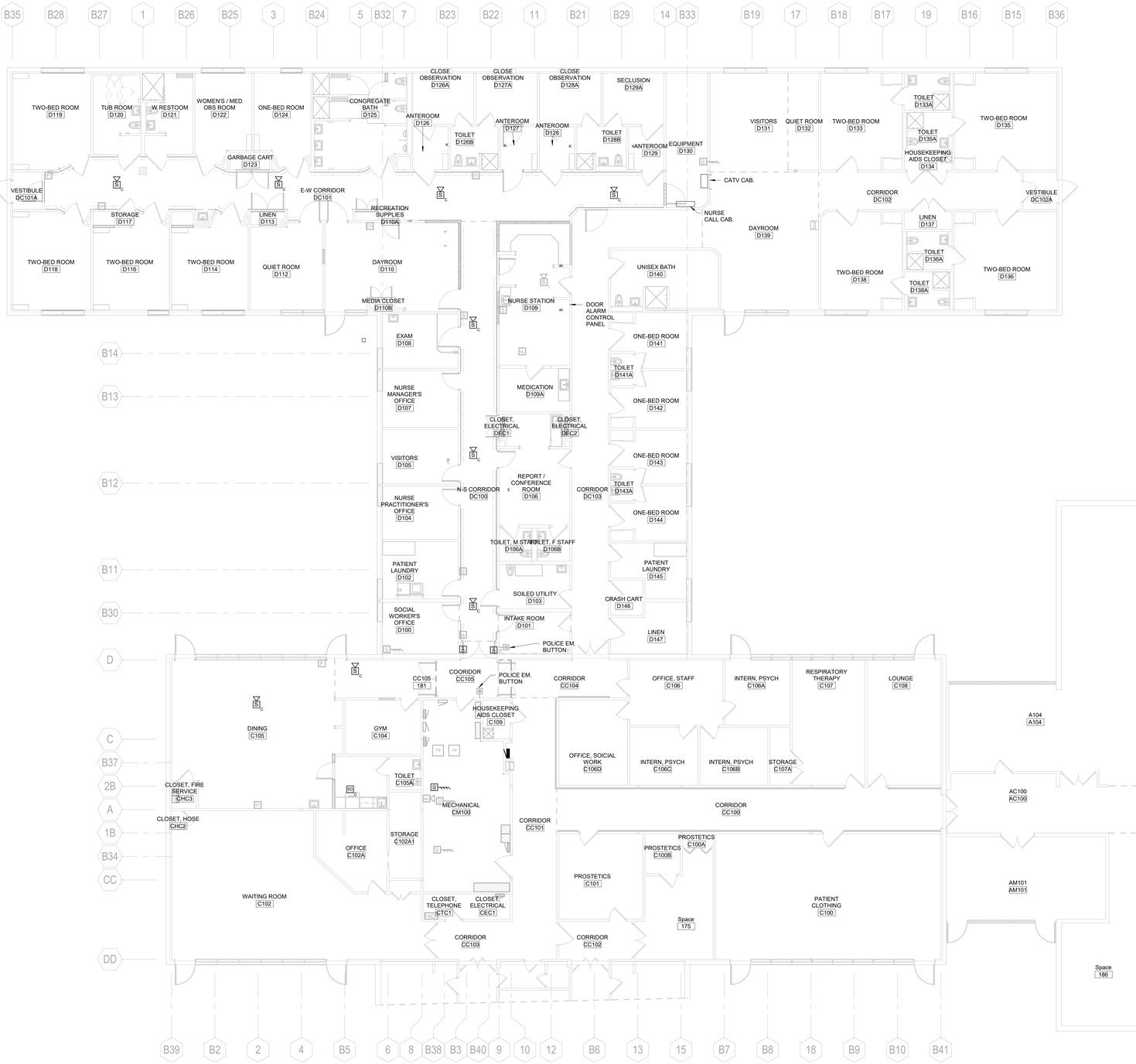
VA U.S. Department of Veterans Affairs

Drawing Title: 1ST LEVEL SIGNAL REMODEL PLAN	Phase: CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: VA FM UPGRADE MENTAL HEALTH LOCK WARD			Project Number: VA #568-20-102 SGA ##211937
			Building Number: #148
Location: FORT MEADE, SOUTH DAKOTA			Drawing Number: EY-401
Issue Date: 08/26/2022	Checked: MKV	Drawn: VLS	

C:\Revit Local Files\2020\BR21045 - VA Ft Meade Upgrade Mental Health Locked Ward-MEP20-CENTRAL_michael.heimich@westplainsengineering.com.rvt
8/30/2022 10:07:19 AM

VA FORM 08 - 6231



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

NORTH

ELECTRICAL MISCELLANEOUS NOTES

A ANY FIXTURES OR WIRING DEVICES SHOWN TO BE INSTALLED WITHIN EXISTING SHEET 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, 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 INTALLATION. THE ELECTRICAL CONTRACTOR CAN UTILIZE THIS PENTHOUSE/CHASE WAY 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 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.

Revision#	Description	Date:

CONSULTANTS

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

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

ARCHITECT OF RECORD

A/E:
STONE GROUP ARCHITECTS

STAMP

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

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
Checked: MKV
Drawn: VLS
Project Number: VA #568-20-102 SGA ##211937
Building Number: #148
Drawing Number: FA-101

C:\Revit Local Files\2020\BR21045 - VA Ft Meade Upgrade Mental Health Locked Ward-MEP20-CENTRAL_michael.heinrich@westplainsengineering.com.rvt

8/30/2022 10:07:22 AM

VA FORM 08 - 6231

EX. DFCX

VOLTS:	120/208 Wye		**PHASES:**	3			**WIRE:**	4		**MAIN CAPACITY:**	225 A		
AIC RATING:	10,000		**LOCATION:**	CLOSET, ELECTRICAL DEC1						**MAIN CONNECTION:**	MLO		
MOUNTING:	SURFACE		**FEEDER SIZE:**	EXISTING						**MAIN TYPE:**	TYPE 1		

CKT	ITEM FED	WIRE SIZE	AMPS	POLES	A (WATTS)		B (WATTS)		C (WATTS)		POLES	AMPS	WIRE SIZE	ITEM FED	CKT
1	FCU S WING WEST SIDE	-	20 A	1	0	0					1	20 A	-	FCU N WING WEST SIDE	2
3	FCU S WING EAST SIDE	-	20 A	1			0	0			1	20 A	-	FCU N WING EAST SIDE	4
5	FCU MIDDLE NORTH SIDE	-	20 A	1					0	0	1	20 A	-	FCU SECLUSION RM & STOV	6
7	SPARE	-	20 A	1	0	0					1	20 A	-	SPARE	8
9	SPARE	-	20 A	1			0	0			--	--	--	SPACE	10
11	SPACE	--	--	--					0	0	--	--	--	SPACE	12
	TOTAL CONNECTED LOAD:		0 W		0 W		0 W		0 W		**AMPS:**	0 A	**LOAD:**	0 W	

NOTES:
1. EXISTING PANELBOARD D1 IS A SQUARE D CATALOG #NQOD412L100CU, SERIES E2 PANELBOARD.

EX. D2

VOLTS:	120/208 Wye		**PHASES:**	3			**WIRE:**	4		**MAIN CAPACITY:**	225 A		
AIC RATING:	10,000		**LOCATION:**	CLOSET, ELECTRICAL DEC2						**MAIN CONNECTION:**	MLO		
MOUNTING:	SURFACE		**FEEDER SIZE:**	EXISTING						**MAIN TYPE:**	TYPE 1		

CKT	ITEM FED	WIRE SIZE	AMPS	POLES	A (WATTS)		B (WATTS)		C (WATTS)		POLES	AMPS	WIRE SIZE	ITEM FED	CKT
1	REC. BREAK RM	-	20 A	1	0	0					1	20 A	-	SPARE	2
3	REC. MED RM	-	20 A	1			0	0			1	20 A	-	NOURISHMENT WEST...	4
5	REC. BRK RM TLTS CLEAN &...	-	20 A	1					0	0	1	20 A	-	NOURISHMENT EAST MICROWAVE	6
7	D147	-	20 A	1	0	0					1	20 A	-	NOURISHMENT COUNTER REC.	8
9	REC. LAUNDRY	-	20 A	1			0	0			1	20 A	-		10
11	WASHER	-	20 A	1					0	0	2	30 A	-	DRYER	12
13	REC. MIDDLE PATIENT RMS	-	20 A	1	0	0					1	20 A	-	REC. MIDDLE PAT RM TLTS	14
15	REC. EAST PATIENT RMS	-	20 A	1			0	0			1	20 A	-	REC. EAST PAT RM TLTS	16
17	REC. WEST PATIENT RMS	-	20 A	1					0	0	1	20 A	-	REC. WEST PAT RM TLTS	18
19	HYDRO TUB	-	20 A	1	0	0					1	20 A	-	REC. EAST/WEST CORR.	20
21	EF-2 EF-3 FANS	-	20 A	1			0	0			1	20 A	-	REC. NORTH/SOUTH CORR.	22
23	ELECT FLUSH VALVES	-	20 A	1					0	0	1	20 A	-	REC. COURTYARD	24
25	COFFEE POT OUTLET	-	20 A	1	0	0					1	20 A	-	REC. VISITORS, QUIET RM	26
27	REFRIG OUTLET	-	20 A	1			0	0			1	20 A	-	REC. DAY ROOM	28
29	MICROWAVE OUTLET	-	20 A	1					0	0	1	20 A	-	WATER COOLER	30
31					0	0					1	20 A	-	SPARE	32
33	SPARE	-	20 A	3			0	0			--	--	--	SPACE	34
35									0	0	--	--	--	SPACE	36
37	SPACE	--	--	--	0	0					--	--	--	SPACE	38
39	SPACE	--	--	--			0	0			--	--	--	SPACE	40
41	SPACE	--	--	--					0	0	--	--	--	SPACE	42
	TOTAL CONNECTED LOAD:		0 W		0 W		0 W				**AMPS:**	0 A	**LOAD:**	0 W	

NOTES:
1. EXISTING PANELBOARD D2 IS A SQUARE D CATALOG #NQOD442L225CU, SERIES E2 PANELBOARD.

EX. D1

VOLTS:	120/208 Wye		**PHASES:**	3			**WIRE:**	4		**MAIN CAPACITY:**	225 A		
AIC RATING:	10,000		**LOCATION:**	CLOSET, ELECTRICAL DEC1						**MAIN CONNECTION:**	MLO		
MOUNTING:	SURFACE		**FEEDER SIZE:**	EXISTING						**MAIN TYPE:**	TYPE 1		

CKT	ITEM FED	WIRE SIZE	AMPS	POLES	A (WATTS)		B (WATTS)		C (WATTS)		POLES	AMPS	WIRE SIZE	ITEM FED	CKT
1					0	0									2
3	SPARE	-	30 A	2			0	0			2	30 A	-	DRYER	4
5	WASHER	-	20 A	1					0	0	1	20 A	-	FCU SOUTH CORR	6
7	REC. LAUNDRY	-	20 A	1	0	0					1	20 A	-	REC. EDUCATION EXAM	8
9	REC. COURTYARD	-	20 A	1			0	0			1	20 A	-	REC. DAY RM	10
11	REC. VISITORS	-	20 A	1					0	0	1	20 A	-	REC. QUIET RM	12
13	REC. INTER	-	20 A	1	0	0					1	20 A	-	REC. SECLUSION TLTS	14
15	REC. CHARGE NURSE	-	20 A	1			0	0			1	20 A	-	REC. MIDDLE TLTS	16
17	REC. 2 EAST PATIENT ROOMS	-	20 A	1					0	0	1	20 A	-	REC. SOUTH TLTS	18
19	REC. 2 WEST PATIENT ROOMS	-	20 A	1	0	0					1	20 A	-	FCU 4-5-6-7-8-9	20
21	REC. SE & SW PATIENT ROOMS	-	20 A	1			0	0			1	20 A	-	NOURISHMENT WEST FRIG.	22
23	REC. EAST & WEST CORR ROOF	-	20 A	1					0	0	1	20 A	-	NOURISHMENT EAST FRIG.	24
25	REC. N & S CORR STOV	-	20 A	1	0	0					1	20 A	-	EF 1	26
27	REC. SECLUSION ANTE RMS	-	20 A	1			0	0			1	20 A	-	SHAVER CABINET CHARGERS	28
29	LIGHTS SECLUSION RMS	-	20 A	1					0	0	1	20 A	-	HYDRO TUB	30
31	WATER COOLER	-	20 A	1	0	0					1	20 A	-	EXISTING CIRCUIT	32
33	AUTOMATIC FLUSH VALVES...	-	20 A	1			0	0			1	20 A	-	SPARE	34
35	SPARE	-	20 A	1					0	0	1	20 A	-	SPARE	36
37	SPARE	-	20 A	1	0	0					--	--	--	SPACE	38
39	SPARE	-	20 A	1			0	0			--	--	--	SPACE	40
41	SPACE	--	--	--					0	0	--	--	--	SPACE	42
	TOTAL CONNECTED LOAD:		0 W		0 W		0 W				**AMPS:**	0 A	**LOAD:**	0 W	

NOTES:
1. EXISTING PANELBOARD DFCX IS A SQUARE D CATALOG #NQOD442L225CU, SERIES E2 PANELBOARD.

EX. LX2

VOLTS:	120/208 Wye		**PHASES:**	3			**WIRE:**	4		**MAIN CAPACITY:**	225 A		
AIC RATING:	10,000		**LOCATION:**	CLOSET, ELECTRICAL DEC2						**MAIN CONNECTION:**	MLO		
MOUNTING:	SURFACE		**FEEDER SIZE:**	EXISTING						**MAIN TYPE:**	TYPE 1		

CKT	ITEM FED	WIRE SIZE	AMPS	POLES	A (WATTS)		B (WATTS)		C (WATTS)		POLES	AMPS	WIRE SIZE	ITEM FED	CKT
1	NIGHT LIGHTING	-	20 A	1	0	0					1	20 A	-	CRASH CART	2
3	REC. S WING 2 EAST PAT RMS	-	20 A	1			0	0			1	20 A	-	REC. MID WING 2 WEST PAT	4
5	REC. S WING 2 SOUTH PAT RMS	-	20 A	1					0	0	1	20 A	-	REC. NORTH WING PAT ROOM	6
7	REC. S WING 2 WEST PAT RMS	-	20 A	1	0	0					1	20 A	-	REC. NORTH WING 2 WEST PAT	8
9	NURSE STATION/24V CAMERA	-	20 A	1			0	0			1	20 A	-	NURSE CALL CABINET	10
11	NURSE STATION	-	20 A	1					0	0	1	20 A	-	CATV-CABINET	12
13	NURSE STATION	-	20 A	1	0	0					1	20 A	-	FIRE/SMOKE DAMPER	14
15	NURSE STATION	-	20 A	1			0	0			1	20 A	-	DINING ROOM RECEPTACLES	16
17	NURSE STATION	-	20 A	1					0	0	1	20 A	-	CM 100 CONTROL PANEL	18
19	NURSE STATION	-	20 A	1	0	0					1	20 A	-	SPARE	20
21	REC. SECLUSION ROOMS	-	20 A	1			0	0			1	20 A	-	ACP #7	22
23	REC. MED ROOM	-	20 A	1					0	0	1	20 A	-	SPARE	24
25	SPARE	-	20 A	1	0	0									26
27	SPARE	-	20 A	1			0	0			3	40 A	-	PANEL DFCX	28
29	SPARE	-	20 A	1					0	0					30
31	SPARE	-	20 A	1	0	0					1	20 A	-	SECURITECH POWER SUPPLY	32
33	SPACE	--	--	--			0	0			--	--	--	SPACE	34
35	SPACE	--	--	--					0	0	--	--	--	SPACE	36
37	SPACE	--	--	--	0	0					--	--	--	SPACE	38
39	SPACE	--	--	--			0	0			--	--	--	SPACE	40
41	SPACE	--	--	--					0	0	--	--	--	SPACE	42
	TOTAL CONNECTED LOAD:		0 W		0 W		0 W				**AMPS:**	0 A	**LOAD:**	0 W	

NOTES:
1. EXISTING PANELBOARD LX2 IS A SQUARE D CATALOG #NQOD442L225CU, SERIES E2 PANELBOARD.

LIGHTING FIXTURE SCHEDULE

FIXTURE MARK	MANUFACTURER	MODEL	MOUNTING	TYPE	INPUT WATTS	LUMENS	LUMEN PER WATT	COMMENTS	ADDITIONAL MANUFACTURERS
A1	KENALL	MMAC24-F-0/0-7-FA-45L35K-DCC-DV	CEILING/RECESSED	LED	49	5182	105.8	BEHAVIORAL HEALTH LIGHT FIXTURE, 2X4, DIRECT/INDIRECT, NOTE 1	SUBMIT FOR APPROVAL
B1	KENALL	RMCD-4-X-0/0-45L35K-DCC-DV-SYM/B-1	CEILING/RECESSED	LED	46	4489	97	BEHAVIORAL HEALTH LIGHT FIXTURE, 2X4, NOTES 1, 2	SUBMIT FOR APPROVAL
B2	KENALL	RMCD-4-X-0/0-67L35K-DCC-DV-SYM/B-1	CEILING/RECESSED	LED	74	7168	96	BEHAVIORAL HEALTH LIGHT FIXTURE, 2X4, NOTES 1, 2	SUBMIT FOR APPROVAL
C1	KENALL	RMCA-4-X-0/0-45L35K-DCC-DV-SYM/B-1	CEILING/RECESSED	LED	46	3535	77	BEHAVIORAL HEALTH LIGHT FIXTURE, 1X4, NOTES 1, 2	SUBMIT FOR APPROVAL
D1	KENALL	RQCA-0/0-1-23L35K-DCC-DV-1/B-1	CEILING/RECESSED	LED	29	1711	59	BEHAVIORAL HEALTH LIGHT FIXTURE, 1X1, NOTE 1	SUBMIT FOR APPROVAL
D1W	KENALL	RQCA-0/0-1-23L35K-DCC-DV-1/B-1-WL	CEILING/RECESSED	LED	29	1711	59	BEHAVIORAL HEALTH LIGHT FIXTURE, 1X1, WET LOCATION LISTED, NOTE 1	SUBMIT FOR APPROVAL
N1	KENALL	RFW-A-0-1-ALL-277-1/B-1	WALL/RECESSED	LED	0.5	-	-	WALL MOUNT NIGHT LIGHT	SUBMIT FOR APPROVAL
S1	LITHONIA	ZL1D-L48-5000LM-FST-MVOLT-35K-80CRI-WH-HC36 M12-WGZ48	CEILING/CHAIN	LED	41	5456	133.07	CHAIN HUNG STRIP LIGHT, WIRE GARD, NOTE 1	COOPER, COLUMBIA, LSI
W1	KENALL	BHWHS-3-0-18L-35K8-DIM1-DV-SYM/9	WALL/SURFACE	LED	22	2218	100.8	WALL MOUNT LIGHT, NOTE 1	SUBMIT FOR APPROVAL
X	LITHONIA	LQM-2-W-3-R-120/277	UNIVERSAL	LED	0.62	-	-	EXIT SIGN, THERMOPLASTIC, PROVIDE ONE OR TWO SIDED AS REQUIRED PER THE DRAWINGS.	SUBMIT FOR APPROVAL

COMMENTS:
1 FIXTURES SUBMITTED FOR APPROVAL CANNOT BE MORE THAN 5% LESS EFFICIENT THAN THE FIXTURE SPECIFIED.
2 FLANGED RECESSED HARD CEILING TYPE FIXTURE. COORDIANTE CEILING TYPE MOUNTING PRIOR TO ORDERING.

PB1

VOLTS:	120/208 Wye		**PHASES:**	3			**WIRE:**	4		**MAIN CAPACITY:**	200 A		
AIC RATING:	22,000		**LOCATION:**	ROOF						**MAIN CONNECTION:**	MLO		
MOUNTING:	SURFACE		**FEEDER SIZE:**	-						**MAIN TYPE:**	TYPE 1		

CKT	ITEM FED	WIRE SIZE	AMPS	POLES	A (WATTS)		B (WATTS)		C (WATTS)		POLES	AMPS	WIRE SIZE	ITEM FED	CKT
1	FC-01	12	15 A	1	1176	1176					1	15 A	12	FC-18	2
3	FC-02	12	15 A	1			1176	1176			1	15 A	12	FC-10A	4
5	FC-03	12	15 A	1					1176	1176	1	15 A	12	FC-11B	6
7	FC-04	12	15 A	1	1176	1176					1	15 A	12	FC-10B	8
9	FC-05	12	15 A	1			1176	1176			1	15 A	12	FC-19	10
11	FC-06	12	15 A	1					1176	1176	1	15 A	12	FC-20	12
13	FC-07	12	15 A	1	1176	1176					1	15 A	12	FC-21	14
15	FC-08	12	15 A	1			1176	1176			1	15 A	12	FC-22	16
17	FC-09	12	15 A	1					1176	829					18
19	ROOF REC'S.	12	20 A	1	1440	829					3	20 A	12	EF-01	20
21	UH-3	12	20 A	1			864	829							22
23	UH-2	12	20 A	1					864	333					24
25	UH-1	12	20 A	1	864	333					2	20 A	12	EF-01	26
27	FC-37	12	15 A	1			1176	0			--	--	--	SPACE	28
29	FC-15	12	15 A	1					1176	0	--	--	--	SPACE	30
31	FC-16	12	15 A	1	1176	0					--	--	--	SPACE	32
33	FC-11A	12	15 A	1			1176	0			--	--	--	SPACE	34
35	FC-14	12	15 A	1					1176	0	--	--	--	SPACE	36
37	FC-13	12	15 A	1	1176	0					--	--	--	SPACE	38
39	FC-17	12	15 A	1			1176	0			--	--	--	SPACE	40
41	FC-12	12	15 A	1					1176	0	--	--	--	SPACE	42
	TOTAL CONNECTED LOAD:		12874 W				12277 W		11434 W		**AMPS:**	102 A	**LOAD:**	36584 W	

STARTER DISCONNECT SCHEDULE

UNIT TYPE	UNIT NUMBER	KW	MOTOR HP	MOTOR MCA	VOLTAGE	PHASES	STARTER TYPE	STARTER NEMA SIZE	STARTER ENCLOSURE TYPE	CONTROL	DISCONNECT SWITCH SIZE	DISCONNECT FUSE SIZE	COMMENTS
					120 V								
AHU	1		5.375 hp	9 A	460 V	3	-	-	-	TC SYSTEM	30A/3P/F/NEMA 1	PER NEC	COMMENT 1
BC	01		0.5 hp	9 A	120 V	1	-	-	-	TC SYSTEM	-	-	COMMENT 2
BC	02		0.5 hp	9 A	120 V	1	-	-	-	TC SYSTEM	-	-	COMMENT 2
BC	03		0.5 hp	9 A	120 V	1	-	-	-	TC SYSTEM	-	-	COMMENT 2
BC	04		0.5 hp	9 A	120 V	1	-	-	-	TC SYSTEM	-	-	COMMENT 2
BC	05		0.5 hp	9 A	120 V	1	-	-	-	TC SYSTEM	-	-	COMMENT 2
BC	06		0.5 hp	9 A	120 V	1	-	-	-	TC SYSTEM	-	-	COMMENT 2
BC	07		0.5 hp	9 A	120 V	1	-	-	-	TC SYSTEM	-	-	COMMENT 2
BC	08		0.5 hp	9 A	120 V	1	-	-	-	TC SYSTEM	-	-	COMMENT 2
BC	09		0.5 hp	9 A	120 V	1	-	-	-	TC SYSTEM	-	-	COMMENT 2
BC	10A		0.5 hp	9 A	120 V	1	-	-	-	TC SYSTEM	-	-	COMMENT 2
BC	10B		0.5 hp	9 A	120 V	1	-	-	-	TC SYSTEM	-	-	COMMENT 2
BC	11A		0.5 hp	9 A	120 V	1	-	-	-	TC SYSTEM	-	-	COMMENT 2
BC	11B		0.5 hp	9 A	120 V	1	-	-	-	TC SYSTEM	-	-	COMMENT 2
BC	12		0.5 hp	9 A	120 V	1	-	-	-	TC SYSTEM	-	-	COMMENT 2
BC	13		0.5 hp	9 A	120 V	1	-	-	-	TC SYSTEM	-	-	COMMENT 2
BC	14		0.5 hp	9 A	120 V	1	-	-	-	TC SYSTEM	-	-	COMMENT 2
BC	15		0.5 hp	9 A	120 V	1	-	-	-	TC SYSTEM	-	-	COMMENT 2
BC	16		0.5 hp	9 A	120 V	1	-	-	-	TC SYSTEM	-	-	COMMENT 2
BC	17		0.5 hp	9 A	120 V	1	-	-	-	TC SYSTEM	-	-	COMMENT 2
BC	18		0.5 hp	9 A	120 V	1	-	-	-	TC SYSTEM	-	-	COMMENT 2
BC	19		0.5 hp	9 A	120 V	1	-	-	-	TC SYSTEM	-	-	COMMENT 2
BC	20		0.5 hp	9 A	120 V	1	-	-	-	TC SYSTEM	-	-	COMMENT 2
BC	21		0.5 hp	9 A	120 V	1	-	-	-	TC SYSTEM	-	-	COMMENT 2
BC	22		0.5 hp	9 A	120 V	1	-	-	-	TC SYSTEM	-	-	COMMENT 2
BC	37		0.5 hp	9 A	120 V	1	-	-	-	TC SYSTEM	-	-	COMMENT 2
EF	01		1.5 hp		208 V	3	FVNR	NEMA 1	NEMA 1	TC SYSTEM	30A/3P	PER NEC	COMMENT 1
EF	02		0.25 hp	0 A	208 V	1	-	-	-	TC SYSTEM	-	-	COMMENT 2
RTU	1		1 hp	18 A	460 V	3	-	-	-	TC SYSTEM	30A/3P/F/NEMA 3R	PER NEC	COMMENT 1
UH	1		0.33 hp	0 A	120 V	1	MMS	-	NEMA 1	TC SYSTEM	-	-	MOTOR THERMAL SWITCH
UH	2		0.33 hp	0 A	120 V	1	MMS	-	NEMA 1	TC SYSTEM	-	-	MOTOR THERMAL SWITCH
UH	3		0.33 hp	0 A	120 V	1	MMS	-	NEMA 1	TC SYSTEM	-	-	MOTOR THERMAL SWITCH

COMMENTS:
1 FUSE PER MANUFACTURER'S RECOMMENDATIONS.
2 UNIT FURNISHED WITH INTEGRAL DISCONNECTING MEANS.

Revision#	Description	Date:

CONSULTANTS

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

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

ARCHITECT OF RECORD
A/E:
STONE GROUP ARCHITECTS

STAMP

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

Drawing Title: ELECTRICAL DETAILS & SCHEDULES
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: EJ-501

C:\Revit Local Files\2020\BR21045 - VA Ft Meade Upgrade Mental Health Locked Ward-MEP20-CENTRAL_michael.heinrich@westplainsengineering.com.rvt
8/30/2022 10:07:09 AM
VA FORM 08 - 6231