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ABBREVIATIONS

1PH	SINGLE-PHASE
1P	SINGLE POLE
2/C	TWO-CONDUCTOR
3/C	THREE-CONDUCTOR
3PH	THREE-PHASE
4/C	FOUR-CONDUCTOR
4W	FOUR-WIRE
A/C	AIR CONDITIONING UNIT
A/E	ARCHITECT/ENGINEER
AAP	ALARM ANNUNCIATOR PANEL
AC	ALTERNATING CURRENT OR ARMORED CABLE
ACC	ACCESSIBLE
ADDL	ADDITIONAL
ADJ	ADJACENT, ADJOINING
AF	AMPERE FRAME OR AMP FUSE
AFC	ABOVE FINISHED COUNTER, AUTOMATIC FREQUENCY CONTROL, OR AVAILABLE FAULT CURRENT
AFCI	ARC-FAULT CURRENT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AH	AMPERE HOUR
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPERE INTERRUPTING CAPACITY
ALT	ALTERNATE
AMB	AMBIENT
AMP	AMPERE
ARCH	ARCHITECT
ASC	AMPS SHORT CIRCUIT
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AV	AUDIO VISUAL
BAT	BATTERY
BBC	BONDING BACKBONE CONDUCTOR
BD	BOARD
BFF	BELOW FINISH FLOOR
BLDG	BUILDING
BRKR	BREAKER
BYP	BY PASS
C	CONDUIT
CAB	CABINET
CALC	CALCULATE
CAP	CAPACITY
CAT	CATALOG
CATV	COMMUNITY ANTENNA TELEVISION
CCR	CONTROL CONTACTOR
CCTV	CLOSED CIRCUIT TELEVISION
CD	CANDELA
CD	CONSTRUCTION DOCUMENTS
CF	CONTRACTOR FURNISHED
CF/CI	CONTRACTOR FURNISHED/ CONTRACTOR INSTALLED
CF/OI	CONTRACTOR FURNISHED/ OWNER INSTALLED
CFE	CONTRACTOR FURNISHED EQUIPMENT
CHW	CHILLED WATER
CHWP	CHILLED WATER PUMP
CKT	CIRCUIT
C/B	CIRCUIT BREAKER
CL	CONNECTOR LIGHTING
CLF	CURRENT LIMITING FUSE
CLG	CEILING
CO	CONDUIT ONLY
COAX	COAX CABLE
COMM	COMMUNICATION
COMPT	COMPARTMENT
CONC	CONCRETE
CONT	CONTINUE
CONTR	CONTRACTOR
COORD	COORDINATE
CPT	CONTROL POWER TRANSFORMER
CRI	COLOR RENDERING INDEX
CT	CURRENT TRANSFORMER
CTV	CABLE TELEVISION
CU	COPPER
CUR	CURRENT
DB	DECIBEL
DC	DIRECT CURRENT
DCP	DIMMER CONTROL PANEL
DDC	DIRECT DIGITAL CONTROLS
DEG C	DEGREES CELSIUS
DEG F	DEGREES FAHRENHEIT
DEMO	DEMOLITION
DIAG	DIAGRAM
DISC	DISCONNECT
DP	DISTRIBUTION PANEL
DMR SW	DIMMER SWITCH
DPDT	DOUBLE POLE, DOUBLE THROW
DPST	DOUBLE POLE, SINGLE THROW
DRSW	DOOR SWITCH
DS	DISCONNECT SWITCH
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
EL	ELEVATION OR EXISTING TO BE RELOCATED
ELEC	ELECTRIC OR ELECTRICAL
ELEV	ELEVATOR
EMER/EM	EMERGENCY
EMI	ELECTROMAGNETIC INTERFERENCE
EMT	ELECTRICAL METALLIC TUBING
EN	EXISTING IN NEW LOCATION
ENCL	ENCLOSURE
EPO	EMERGENCY POWER OFF
EPRF	EXPLOSION PROOF
ER	EXISTING TO REMAIN
ESMT	EASEMENT
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXIST(E)	EXISTING
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FC	FOOTCANDLE
FCIO	FURNISHED BY CONTRACTOR, INSTALLED BY OWNER
FOIC	FURNISHED BY OWNER, INSTALLED BY CONTRACTOR
FIXT	FIXTURE
FLA	FULL LOAD AMPS
FLUOR	FLUORESCENT
FP	FIRE PROTECTION
FT	FEET OR FOOT
FU SW	FUSED SWITCH
FVNR	FULL VOLTAGE NON-REVERSING
FVR	FULL VOLTAGE REVERSING
G	ELECTRICAL GROUND
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTION
GND	GROUND
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HT	HEIGHT
HZ	HERTZ
IG	ISOLATED GROUND
IESNA	ILLUMINATION ENGINEERING SOCIETY OF NORTH AMERICA
IMC	INTERMEDIATE METAL CONDUIT
INCAND	INCANDESCENT
IR	INFRARED
IWH	INSTANTANEOUS WATER HEATER
J-BOX	JUNCTION BOX
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KVAH	KILOVOLT AMPERE PER HOUR
KVAR	KILOVOLT AMPERE REACTIVE
KW	KILOWATT
KWH	KILOWATT HOUR
KWHM	KILOWATT HOUR METER
LCP	LIGHTING CONTROL PANEL
LED	LIGHT EMITTING DIODE
LF	LINEAR FEET (FOOT)
LP	LIGHT POLE
LPS	LOW PRESSURE SODIUM
LRA	LOCKED ROTOR AMPS
LT	LIGHT
LTG	LIGHTING
LTG PNL	LIGHTING PANEL
LTNG	LIGHTNING
LV	LOW VOLTAGE
MAX	MAXIMUM
MC	METAL-CLAD
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MECH	MECHANICAL
MH	MANHOLE
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
MLO	MAIN LUGS ONLY
MS	MOTOR STARTER
MT	MOUNT
MTD	MOUNTED
MTG	MOUNTING
MTS	MANUAL TRANSFER SWITCH
MV	MEDIUM VOLTAGE
MVA	MEGAVOLT-AMPERE
MW	MEGAWATT
NA	NOT APPLICABLE
NAC	NOTIFICATION APPLIANCE CABINET
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NEUT, N	NEUTRAL
NFC	NOT FOR CONSTRUCTION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OL	OVERLOAD
OS	OCCUPANCY SENSOR
P	POLE
PB	PULL BOX
PBB	PRIMARY BONDING BUSBAR
PEC	PHOTOELECTRIC CELL
PED	PEDESTAL
PEND	PENDANT
PIV	POST INDICATOR VALVE
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
PS	POWER SUPPLY
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE (PLASTIC)
PWR	POWER
R	EXISTING TO BE REMOVED
RCP	REFLECTED CEILING PLAN
REC	RECESSED
RECPT	RECEPTACLE
RM	ROOM
RMC	RIGID METAL CONDUIT
RMS	ROOT MEAN SQUARE
REQD	REQUIRED
SAC	SMALL APPLIANCE CIRCUIT
SBB	SECONDARY BONDING BUSBAR
SBC	SECONDARY BONDING CONDUCTOR
SCC	SHORT CIRCUIT CAPACITY
SD	SMOKE DETECTOR
SF	SQUARE FOOT (FEET)
SHT	SHEET
SI	INTERNATIONAL SYSTEM OF UNITS
SM	SMART METER
SPD	SURGE PROTECTIVE DEVICE
SPEC	SPECIFICATION
SPST	SINGLE POLE, SINGLE THROW
SURF	SURFACE
SW	SWITCH
SWBD OR SB	SWITCHBOARD
SWGR OR SG	SWITCHGEAR
TBB	TELECOMMUNICATIONS BACK BONE
TBC	TELECOMMUNICATIONS BONDING CONDUCTOR
TEBC	TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR
TEL	TELEPHONE
TR	TAMPER RESISTANT
TV	TELEVISION
TYP	TYPICAL
UFD	UNDERFLOOR DUCT
UGND	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTIL	UTILITY
V	VOLT
VA	VOLT AMPERE
VAR	VOLT AMPERE REACTIVE
VFD	VARIABLE FREQUENCY DRIVE
VOLT	VOLTAGE
W	WATT/WEATHERPROOF (WHILE IN USE)
WH	WATER HEATER
WP/W	WEATHERPROOF
WR	WEATHER RESISTANT
XFER	TRANSFER
XFMR	TRANSFORMER

GENERAL NOTES

1. THESE "GENERAL NOTES" SHALL APPLY TO ALL DRAWINGS WITHIN THIS DRAWING SET.
2. PROTECT ALL EXISTING WORK FROM DAMAGE DURING CONSTRUCTION. ANY DAMAGED MATERIALS, SYSTEMS, COMPONENTS, FINISHES AND THE LIKE, SHALL BE REPAIRED OR REPLACED AT THE EXPENSE OF THE CONTRACTOR TO THE ACCEPTANCE OF THE OWNER.
3. BLACKENED OR BOLDED EQUIPMENT INDICATES THE EQUIPMENT SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. ITEMS NOT DIRECTLY FURNISHED BY THE CONTRACTOR SHALL HAVE A DESIGNATION SUCH AS OFCI (OWNER FURNISHED CONTRACTOR INSTALLED), OFOI (OWNER FURNISHED OWNER INSTALLED), OR NIC (NOT IN CONTRACT. GRAY OR GRAY-SCALED EQUIPMENT SHALL BE ASSUMED TO BE EXISTING OR SHOWN FOR EQUIPMENT LOCATION COORDINATION.
4. EXISTING CIRCUITS ASSOCIATED WITH THE PROJECT AREA OF WORK ARE TO BE DE-ENERGIZED DURING CONSTRUCTION.
5. ALL ELECTRICAL WORK SHALL BE COMPLETED WITH ALL PROXIMATE ELECTRICAL CIRCUITS DE-ENERGIZED (i.e. A NEW BREAKER OR CIRCUIT CANNOT BE ADDED TO A PANEL UNLESS THE PANEL IS COMPLETELY DE-ENERGIZED), OR THE CONTRACTOR MUST COMPLY WITH NFPA 70E FOR WORK ON ENERGIZED SERVICE. THE VA WILL DETERMINE IF THE ELECTRICAL SERVICE CAN BE SHUT DOWN OR IT WILL HAVE TO BE WORKED HOT DEPENDING ON THE CRITICALITY OF THE AREA BEING AFFECTED. IF THE WORK MUST BE DONE WITH THE SERVICE LIVE, THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL REQUIRED PROTECTIVE TOOLS, EQUIPMENT, AND CLOTHING, AND MUST FOLLOW THE JOB SPECIFIC WORK PLAN PREPARED BY THE CONTRACTOR AND APPROVED BY THE VA. WORK THAT REQUIRES SHUTTING DOWN ELECTRICAL SERVICE MAY HAVE TO BE ACCOMPLISHED DURING OTHER THAN NORMAL DUTY HOURS.
6. PROVIDE RACEWAYS AND CONDUCTORS/CABLING FROM LUMINAIRES TO THEIR CORRESPONDING CONTROL DEVICES AS INDICATED ON PLANS.
7. LUMINAIRE INSTALLATIONS AND LAYOUTS SHALL BE COORDINATED WITH ALL OBSTACLES, EQUIPMENT AND ARCHITECTURAL FEATURES.
8. WHERE NOT SPECIFICALLY INDICATED ON DRAWINGS, BRANCH CIRCUIT CONDUCTORS SHALL BE 12 AWG MINIMUM FOR RUNS EQUAL TO OR LESS THAN 65 FEET AND 10 AWG MINIMUM FOR RUNS GREATER THAN 65 FEET. RACEWAYS AND CONDUCTORS SHALL BE SIZED AND QUANTIFIED TO SERVE AND CONTROL APPLICABLE EQUIPMENT WITH VOLTAGE DROP NO GREATER THAN THREE PERCENT. CONDUCTOR SIZE SHALL BE INCREASED TO COMPENSATE FOR DERATING REQUIRED PER NEC 310.15 WHERE MORE THAN THREE CURRENT CARRYING CONDUCTORS WITHIN ONE RACEWAY; CONDUCTOR AMPACITIES SHALL BE TAKEN FROM THE 75°C COLUMN. INDIVIDUAL CIRCUITS SHALL NOT SHARE NEUTRAL CONDUCTORS.
9. MINIMUM CONDUIT SIZE SHALL BE 1" FOR EXTERIOR AND UNDERGROUND CONDUIT. MINIMUM CONDUIT SIZE SHALL BE 3/4" FOR INTERIOR CONDUIT. ADDITIONAL CONDUCTORS FOR UNSWITCHED HOT CONDUCTOR TO LUMINAIRES WITH EMERGENCY BATTERY POWERED BACKUP UNITS OR TRANSFER DEVICES SHALL BE PROVIDED. ALL CONDUIT SHALL BE CONCEALED. THE ABOVE COMMENTS SHALL BE ADHERED TO UNLESS OTHERWISE NOTED ON THE DRAWINGS.
10. EMERGENCY LIGHTING OR EQUIPMENT CIRCUITS SHALL BE ROUTED INDEPENDENT FROM OTHER CIRCUIT TYPES; ENSURE NEC 700.10 REQUIREMENTS ARE MET.
11. PROVIDE ALL CONDUIT AND WIRE FOR ALL CIRCUITS INDICATED AND/OR NOTED ON THE DRAWINGS AND/OR SPECIFICATIONS. ALL AUXILIARY OR REQUIRED APPURTENANCES FOR PROVIDED EQUIPMENT SHALL BE PROVIDED WITH ALL CONNECTIONS AS REQUIRED.
12. ALL EQUIPMENT AND DEVICES INCLUDING, BUT NOT LIMITED TO, ELECTRICAL DISTRIBUTION EQUIPMENT, RECEPTACLES, DATA OUTLETS, AND SPECIAL SYSTEM DEVICES, SHALL HAVE THEIR EXACT LOCATION COORDINATED WITH ARCHITECTURAL DRAWINGS AND ALL TRADES PRIOR TO COMMENCING WORK.
13. COORDINATE WITH LIGHTING MANUFACTURER FOR ALL LIGHTING CONTROL EQUIPMENT AND APPURTENANCES; PROVIDE ANY ADDITIONAL SENSORS TO PROVIDE FULL COVERAGE OF THE SPACE AS REQUIRED. ALL CONDUIT, WIRE, POWER SUPPLIES, AND APPURTENANCES REQUIRED FOR THE LIGHTING CONTROL SYSTEM SHALL BE PROVIDED TO PROVIDE A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
14. ALL EXTERIOR MOUNTED RECEPTACLES AND LUMINAIRE INSTALLATIONS SHALL COORDINATE EXACT LOCATIONS WITH ARCHITECTURAL SHEETS. ADDITIONALLY, WHERE MASONRY IS USED, SMOOTH BLOCK SHALL BE UTILIZED TO PROVIDE A PROPER MOUNTING SURFACE TO ALL EQUIPMENT; RECEPTACLES SHALL BE INSTALLED FLUSH.
15. ALL CONDUIT/SLEEVE FLOOR AND WALL PENETRATIONS SHALL BE SEALED WITH FIRE RATED ASSEMBLIES, CAULKING, AND APPURTENANCES. ELECTRICAL BOXES LOCATED IN FIRE RATED WALLS SHALL BE RATED FOR USE IN FIRE RATED WALLS. WALL PENETRATION PERMIT SHALL BE SUBMITTED AND APPROVED BY CAVHS SAFETY OFFICE PRIOR TO PENETRATING FIRE WALLS.
16. ALL EQUIPMENT AND INSTALLATION METHODS SHALL BE LISTED AND LABELED PER NEC, UL LISTED, OR REVIEWED EQUAL.
17. FOR ALL EQUIPMENT, COORDINATE WITH ALL TRADES (ARCHITECTURAL, MECHANICAL, PLUMBING, ETC) FOR ELECTRICAL REQUIREMENTS AND INSTALLATION LOCATIONS PRIOR TO INSTALLATION.
18. ALL LOW-VOLTAGE SYSTEM CABLING NOT RAN IN CONDUIT TO WALL MOUNTED DEVICE SHALL HAVE A MINIMUM 1"C ROUTED FROM DEVICE THROUGH WALL INTO THE ACCESSIBLE CEILING SPACE; CABLING SHALL NOT BE ROUTED IN WALLS OR IN AN INACCESSIBLE LOCATION WITHOUT CONDUIT.
19. GFCI RECEPTACLES SHALL BE PROVIDED WITHIN 6 ' OF A SINK/OR WATER SOURCE, WITHIN DAMP ROOMS, OR WHEN MOUNTED OUTDOORS/EXTERIOR TO THE BUILDING.
20. NO STRUCTURAL MEMBERS SHALL BE CUT, DRILLED, OR NOTCHED WITHOUT PRIOR WRITTEN CONSENT FROM THE STRUCTURAL ENGINEER OR ARCHITECT.
21. ALL FINAL LOCATIONS AND ARRANGEMENTS OF LIGHTING FIXTURES SHALL BE OBTAINED FROM THE ARCHITECTURAL REFLECTED CEILING PLAN.
22. LIGHTING FIXTURES WITH MORE THAN TWO LAMPS SHALL HAVE TWO OUTER LAMPS CONTROLLED WITH ONE SWITCH AND INNER LAMP(S) CONTROLLED BY A SECOND SWITCH.
23. EACH BRANCH CIRCUIT HOMERUN SHALL HAVE A SEPARATE GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR SIZED PER NEC TABLE 250.122. ALL WIRING IS BASED ON Cu COPPER PER NEC TABLE 310.15(B)(16), USING 75°C AMPACITIES FOR FEEDERS.
24. MULTI-GANG BACKBOXES FOR DIFFERENT VOLTAGES AND TYPES OF EMERGENCY AND NORMAL BRANCH WIRING DEVICES SHALL HAVE DIVIDERS BETWEEN DEVICES.
25. FOR EXISTING EQUIPMENT, SUCH AS LIGHTING FIXTURES, WIRING DEVICES, CONDUITS, ETC., SHOWN ON PLANS TO BE REMOVED, COMPLETELY CUT/CAP CONDUITS AT THE AREA OF WORK PERIMETER AND REMOVE CONDUIT WITHIN THE WORK AREA, DISCONNECT WIRING AT THE OVERCURRENT PROTECTIVE DEVICE AND REMOVE WIRING COMPLETELY FROM THE ABANDONED CONDUITS. PATCH AND REPAIR RECESSED BOXES WHERE REQUIRED.
26. DISCONNECT ALL ABANDONED WIRING OF ALL TYPES AT THE OVERCURRENT PROTECTIVE DEVICE. COMPLETELY REMOVE ALL ABANDONED WIRING.
27. MAINTAIN AND RESTORE, IF INTERRUPTED, ALL CONDUITS AND CONDUCTORS PASSING THROUGH RENOVATED AREAS AND SERVICING UNDISTURBED AREAS.
28. ALL PENETRATIONS SHALL BE PERMITTED, LOGGED, AND INSPECTED BY VA WHITE RIVER JUNCTION HCS FIRE DEPARMENT PRIOR TO FINAL CLOSURE.
29. ALL SURGE PROTECTION DEVICES (SPD) AND DIGITAL POWER METERS (DPM) PROVIDED SHALL BE INTEGRAL TO THE EQUIPMENT IT IS PROTECTING/MONITORING, UNLESS OTHERWISE NOTED.
30. CONTRACTOR SHALL DISPOSE OF REMOVED DEVICES. DISPOSAL OF DEVICES SHALL COMPLY WITH ALL APPROPRIATE CODES. VA SHALL HAVE FIRST RIGHT TO SALVAGE ALL EQUIPMENT BEING DEMOLISHED.
31. PRIOR TO RELOCATING FIRE ALARM EQUIPMENT, CONTRACTOR SHALL TEST AND VERIFY EXISTING EQUIPMENT FUNCTIONALITY IN CONJUCTION WITH VA COORDINATION. CONTRACTOR SHALL PROVIDE ALL REQUIRED RACEWAYS, CONDUCTORS, CABLING, PROGRAMMING, TEMPORARY FIRE SYSTEM PANELS AND DEVICES, AND TESTING FOR RELOCATING AND MAINTAINING A FULLY FUNCTIONAL FIRE ALARM SYSTEM. CONTRACTOR SHALL PROVIDE PHASING PLANS FOR VA REVIEW AND APPROVAL PRIOR TO COMMENCING WORK; ALL PLANS SHALL BE SUBMITTED FOR REVIEW 30 DAYS PRIOR TO IMPLEMENTATION. ALL WORK REQUIRED TO RELOCATE EXISTING FIRE ALARM EQUIPMENT SHALL BE INCLUDED IN THE CONTRACTOR'S SOW.
32. WHERE CORE DRILLING IS REQUIRED, CONTRACTOR SHALL COORDINATE WITH STRUCTURAL DRAWINGS AND PROVIDE X-RAY SURVEY VIA SUBMITTAL PROCESS PRIOR TO DRILLING.

Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	ABBREVIATIONS AND GENERAL NOTES
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB
Project Number	405-22-700
Building Number	-
Drawing Number	EPG001

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DIV 26 - LEGEND

POWER

- DELTA CONNECTION
- WYE CONNECTION
- MOTOR
- TRANSFORMER
- EARTH GROUND
- JUNCTION BOX
- JUNCTION BOX ON EMERGENCY POWER
- INSULATED TAP
- PB — PULL BOX
- COMPENSATING RESISTOR
- SWITCH, SINGLE BREAK
- NORMALLY CLOSED RELAY CONTACT
- NORMALLY OPEN RELAY CONTACT
- FUSE
- SWITCH, FUSED
- CIRCUIT BREAKER
- DRAWOUT AIR CIRCUIT BREAKER
- (XX) — RELAY; XX INDICATES RELAY TYPE
  50 = INSTANTANEOUS OVER CURRENT OR RATE-OF-RISE
  51 = AC-TIME OVER CURRENT
  67 = AC-DIRECTIONAL OVER CURRENT
  86 = LOCKING OUT
  ST = SHUNT-TRIP
  CR = CONTROL RELAY
- DISCONNECT SWITCH, FUSED
- DISCONNECT SWITCH, UNFUSED
- (G) — GENERATOR, POWER
- BATTERY
- CAPACITOR
- (M) — METER
- (A) — AMMETER
- (V) — VOLTMETER
- PUSHBUTTON (NO, NC)
- CONTROL FUSE
- (T) — TRANSFORMER, PLAN
- LADDER CABLE TRAY
- (V) (HH) — ELECTRICAL UNDERGROUND BOX, V = VAULT; HH = HANDHOLE.
- PANELBOARD, FLUSH MOUNTED
- PANELBOARD, SURFACE MOUNTED
- RECEPTACLE, DUPLEX;
  SHADED INDICATES EMERGENCY POWER
- RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER;
  SHADED INDICATES EMERGENCY POWER
- RECEPTACLE, QUADRUPLEX
- RECEPTACLE, SINGLE
- P1-1,3,5 — CONDUIT 3/4"C, 3#12 PHASE, 1#12 N, & 1#12 GND UNLESS SHOWN OTHERWISE. (EXAMPLE SHOWN: TO PANEL P1, CIRCUIT 1,3,5). LONG TICK FOR NEUTRAL WIRE; ONE SHORT TICK FOR EACH PHASE WIRE; GROUND SIZED PER NEC. NOTE THAT A SECOND SHORT TICK FOR LUMINAIRES IS FOR A TRAVELER WIRE.
- XXXX — CONDUIT HOME RUN - SEE CONDUIT AND WIRE SCHEDULE
- GROUNDING ROD WITH TEST WELL
- LIGHTNING AIR TERMINAL
- BUS DUCT - ONE-LINE DIAGRAM

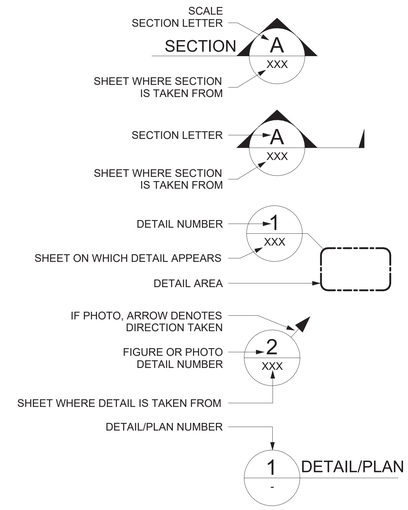
- RECEPTACLE, SINGLE WITH SWITCH
- RECEPTACLE, SPECIAL PURPOSE; SHADED
  INDICATES EMERGENCY POWER
  A = 120V, 20A, 1 PHASE, 2-POLE, 3W, NEMA 5-20R.
  B = 208V, 20A, 1 PHASE, 2-POLE, 3W, NEMA 6-20R.
  C = 208V, 20A, 3 PHASE, 4-POLE, 5W, NEMA L21-20R.
  D = 208V, 30A, 3 PHASE, 4-POLE, 5W, NEMA L21-30R.
  E = 120V, 30A, 1 PHASE, 2-POLE, 3W, NEMA L5-30R.
  F = 208V, 30A, 3 PHASE, 3-POLE 4W, NEMA 15-30R.
  G = 208V, 50A, 3 PHASE, 3 POLE, 4W, NEMA 15-30R.
  H = 208V, 20A, 1 PHASE, 2 POLE, 3W, NEMA L6-20R.
- RECEPTACLE, SWITCHED DUPLEX
- DROP CORD, SINGLE CONVENIENCE OUTLET, 3-WIRE, GROUNDING TYPE, 20A, W/#12 CONDUCTORS IN FLEXIBLE CORD (CENTER LINE OF OUTLET: 6'-6" [1981mm] AFF. MINIMUM).
- ELECTRICAL STRIP MOLD (OUTLETS ON 2'-0" [610mm] CENTERS OR AS DESIGNATED ON DRAWINGS), MTD 3'-6" [1067mm] AFF OR AS INDICATED.
- SWITCH
  F = FUSED SWITCH
  L = LOCK
  M = MANUAL MOTOR STARTING
  MP= MOTOR SNAP WITH PILOT LIGHT (THERMAL TYPE)
  PB= PUSH BUTTON STATION
  WP= WEATHER PROOF
  K = KEY OPERATED
  LM= LOW VOLTAGE MASTER
  MC= MOMENTARY CONTACT
  P = WITH PILOT LIGHT
  RC= REMOTE CONTROL
  X = EXPLOSION PROOF
- X = DESCRIPTION
  E = EMERGENCY POWER OFF (OFF)

LIGHTING

- SWITCH (# SUBSCRIPT AS INDICATED BELOW):
  BLANK = SINGLE POLE
  3 = THREE-WAY
  D = DIMMER
  LV= LOW VOLTAGE
  LM= LOW VOLTAGE MASTER
  PB= PUSH BUTTON STATION
  T = TIMER OPERATED
  2 = DOUBLE POLE
  4 = FOUR-WAY
  K = KEY OPERATED
  P = WITH PILOT LIGHT
  RC= REMOTE CONTROL
  WP= WEATHER PROOF
  Mo= OCCUPANCY SENSOR
  x = LUMINAIRE SWITCH ZONE (ANY LOWER CASE LETTER APPLIES)
- LIGHTING, ONE HEAD EMERGENCY BATTERY POWER
- LIGHTING, TWO HEAD EMERGENCY BATTERY POWER
- LIGHTING, THREE HEAD EMERGENCY BATTERY POWER
- EXIT SIGN, WALL MOUNTED WITH DIRECTIONAL ARROWS AND FACES AS SHOWN
- EXIT SIGN, CEILING MOUNTED WITH DIRECTIONAL ARROWS AND FACES AS SHOWN
- LIGHT FIXTURE, BOLLARD
- (E) — LIGHT FIXTURE, SURFACE MOUNTED, 2'x2'; LETTER INDICATES TYPE.
- LIGHT TRACK WITH HEADS AS SHOWN
- OS — ALL INTERIOR AREAS TO HAVE MANUAL ON/AUTO OFF LIGHTING CONTROL WITH THE USE OF DUAL TECHNOLOGY OCCUPANCY SENSORS. EXCEPT WHERE A WALL SWITCH OCCUPANCY SENSOR IS NOTED.
- PE — PHOTO ELECTRIC SENSOR
- DS — DAYLIGHT SENSOR FOR DAYLIGHT HARVESTING CONTROL. SENSOR SHALL BE CEILING MOUNTED.
- (R) — INDICATOR PILOT LIGHT, PUSH-TO-TEST

EMERGENCY	NORMAL	
X	X	X = DENOTES LUMINAIRE TAG NAME
X	X	RECESSED DOWNLIGHT FIXTURE
X	X	LIGHT FIXTURE, RECESSED, 2'x4'
X	X	LIGHT FIXTURE, RECESSED, 1'x4'
X	X	LIGHT FIXTURE, RECESSED, 1'x8'
X	X	LIGHT FIXTURE, RECESSED, 2'x2'
X	X	LIGHT FIXTURE, SURFACE MOUNTED, 2'x4'
X	X	LIGHT FIXTURE, SURFACE MOUNTED, 1'x4'
X	X	LIGHT FIXTURE, SURFACE MOUNTED, 1'x8'
X	X	LIGHT FIXTURE, SURFACE MOUNTED, 2'x2'
X	X	STRIP LIGHTING, 4' LONG
X X	X X	LIGHT FIXTURE, WALL MOUNTED
X	X	STREET LIGHT WITH BRACKET
X	X	LIGHT POLE, ONE LUMINAIRE
X	X	LIGHT POLE, TWO LUMINAIRES
X	X	LIGHT POLE, POST TOP MOUNT LUMINAIRE
X	X	LIGHTING WALL PACK, EXTERIOR BUILDING

GENERAL SYMBOL



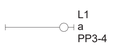
- XXX — CONDUIT & WIRE TAG (REFER TO CONDUIT AND WIRE SCHEDULE)
- 1 — KEY NOTE
- 1 — METERING NOTE
- CONDUIT OR EQUIPMENT TO BE REMOVED
- CONDUIT UNDER FLOOR, IN FLOOR SLAB, OR ROUTED UNDERGROUND
- CONDUIT CONCEALED IN WALL, IN CEILING, OR ABOVE ACCESSIBLE CEILING WHERE POSSIBLE, OTHERWISE EXPOSED
- EXTRA-HARD USAGE FLEXIBLE CORD
- FLEXIBLE CONDUIT
- CONDUIT TURNED UP OR TOWARD
- CONDUIT TURNED DOWN OR AWAY
- CONDUIT CAPPED
- FIRE WALL (2 HOUR MIN.)
- 2 HOUR FIRE BARRIER
- 1 HOUR FIRE BARRIER

CIRCUITING DESIGNATIONS

WHERE A PANEL NAME AND CORRESPONDING CIRCUIT ARE CALLED OUT ADJACENT TO A RECEPTACLE, LUMINAIRE, OR MISC LOAD, THAT LOAD SHALL BE CIRCUITED TO THE CORRESPONDING PANELBOARD CIRCUIT BREAKER. CONDUIT AND WIRE FOR CIRCUIT SHALL BE 3/4" CONDUIT WITH (2) 12 AWG AND (1) 12 AWG GND, UNLESS OTHERWISE NOTED; IF FURTHER THAN 70', PHASE AND GROUND WIRE SHALL BE UPSIZED TO 10 AWG TO ACCOUNT FOR VOLTAGE DROP. SEE EXAMPLES BELOW:

RECEPTACLE:
PANELBOARD OR POWER SOURCE NAME = "P1"
CIRCUIT NUMBER OF POWER SOURCE = "2"

LUMINAIRE:
PANELBOARD OR POWER SOURCE NAME = "PP3"
CIRCUIT NUMBER OF POWER SOURCE = "4"
TYP LUMINIARE TAG NAME, REFERENCE LUMINAIRE SCHEDULE = "L1"
LIGHTING CONTROL SWITCH LEG = "a"
ALL LUMINAIRES IN SAME ROOM ARE CIRCUITED TO SAME CIRCUIT = PP3-4



MISC LOAD:
PANELBOARD OR POWER SOURCE NAME = "PP"
CIRCUIT NUMBER OF POWER SOURCE = "7"

DIV 28 - LEGEND

- FAC — ALARM, FIRE, COMMUNICATOR
- FACP — ALARM, FIRE, PANEL; LETTERS INDICATE AS FOLLOWS:
  FACC = CENTRAL CONSOLE
  FACP = CONTROL PANEL
  MFACP= MASTER CONTROL PANEL
  FAAP = ANNUNCIATOR
- BATT — ALARM, FIRE; LETTERS INDICATE AS FOLLOWS:
  BATT = BATTERIES
  CHR = CHARGER
  FAR = RECORDER
- OSV — ALARM, FIRE, VALVE SUPERVISORY SWITCH.
- FATC — ALARM, FIRE, TERMINAL CABINET.
- PIV — ALARM, FIRE, POST INDICATOR VALVE.
- FTR — ALARM, TRANSPONDER OR TRANSMITTER
- ALARM, HORN/LIGHT, ONE ASSEMBLY C = WITH CHIME
- C — ALARM, HORN/LIGHT, ONE ASSEMBLY WITH CHIME
- ALARM, HORN/LIGHT, SEPARATE ASSEMBLY
- X — ALARM, LAMP LIGHT, SIGNAL LIGHT, STROBE;
  LETTER INDICATES AS FOLLOWS:
  BLANK = SIGNAL STROBE PER FIRE ALARM SPECIFICATION
  C = SPECIALTY SIGNAL STROBE, CLEAN AGENT FIRE SUPPRESSION SYSTEM
  S = SMOKE DETECTOR ALARM INDICATOR STROBE, CLEAN AGENT FIRE SUPPRESSION SYSTEM
- M — ALARM, MINI HORN
  M-MULLION
- WB — ALARM, SPRINKLER SYSTEM WATER FLOW BELL
- (B) — ALARM BELL
- S — SOLENOID VALVE
- TS — ALARM, TAMPER SWITCH
- SCCP — DETECTION, SMOKE CONTROL AND PRESSURE PANEL
- DETECTION SWITCH, VALVE TAMPER

- A — SPECIALTY SWITCH, ABORT, CLEAN AGENT FIRE SUPPRESSION SYSTEM
- M — SPECIALTY SWITCH, MANUAL, CLEAN AGENT FIRE SUPPRESSION SYSTEM
- E — EMERGENCY POWER OFF PUSH BUTTON
- DETECTOR, FLOW SWITCH
- R/T — DETECTOR, HEAT; LETTER INDICATES AS FOLLOWS:
  R/T = COMBINATION
  R/C = RATE COMPENSATION
  F = FIXED TEMPERATURE
  R = RATE OF RISE
- H — DETECTOR; LETTER INDICATES AS FOLLOWS:
  BLANK = SMOKE DETECTOR
  H = HEAT SMOKE
  I = IONIZATION SMOKE
  P = PHOTOELECTRIC SMOKE
  IH = IONIZATION AND HEAT SMOKE
  IP = IONIZATION AND PHOTOELECTRIC SMOKE
  PH = PHOTOELECTRIC AND HEAT SMOKE
  IPH = IONIZATION, PHOTOELECTRIC, AND HEAT
  UFS = UNDERFLOOR SMOKE DETECTOR, CLEAN AGENT FIRE SUPPRESSION SYSTEM
  S = SMOKE DETECTOR WITH INDICATOR STROBE, CLEAN AGENT FIRE SUPPRESSION SYSTEM
- DETECTOR, SMOKE, FOR DUCT
- FS — FIRE ALARM STATION, MANUAL PULL
- FA — FIRE ALARM LINE = FA
- PAS — PRESSURE ACTIVATED SWITCH
- PS — TANK PRESSURE SWITCH
- MBS — MAINTENANCE BYPASS SWITCH
- EOL — END OF LINE RESISTOR
- CR — CONTROL RELAY, ADDRESSABLE
- MM — MONITOR MODULE, ADDRESSABLE, DUAL OR SINGLE AS REQUIRED

THESE ARE GENERAL LEGENDS. NOT ALL SYMBOLS MAY BE SHOWN.
REFERENCE PLANS FOR ALL UTILIZED SYSMBOLS.

Revisions:	Date:

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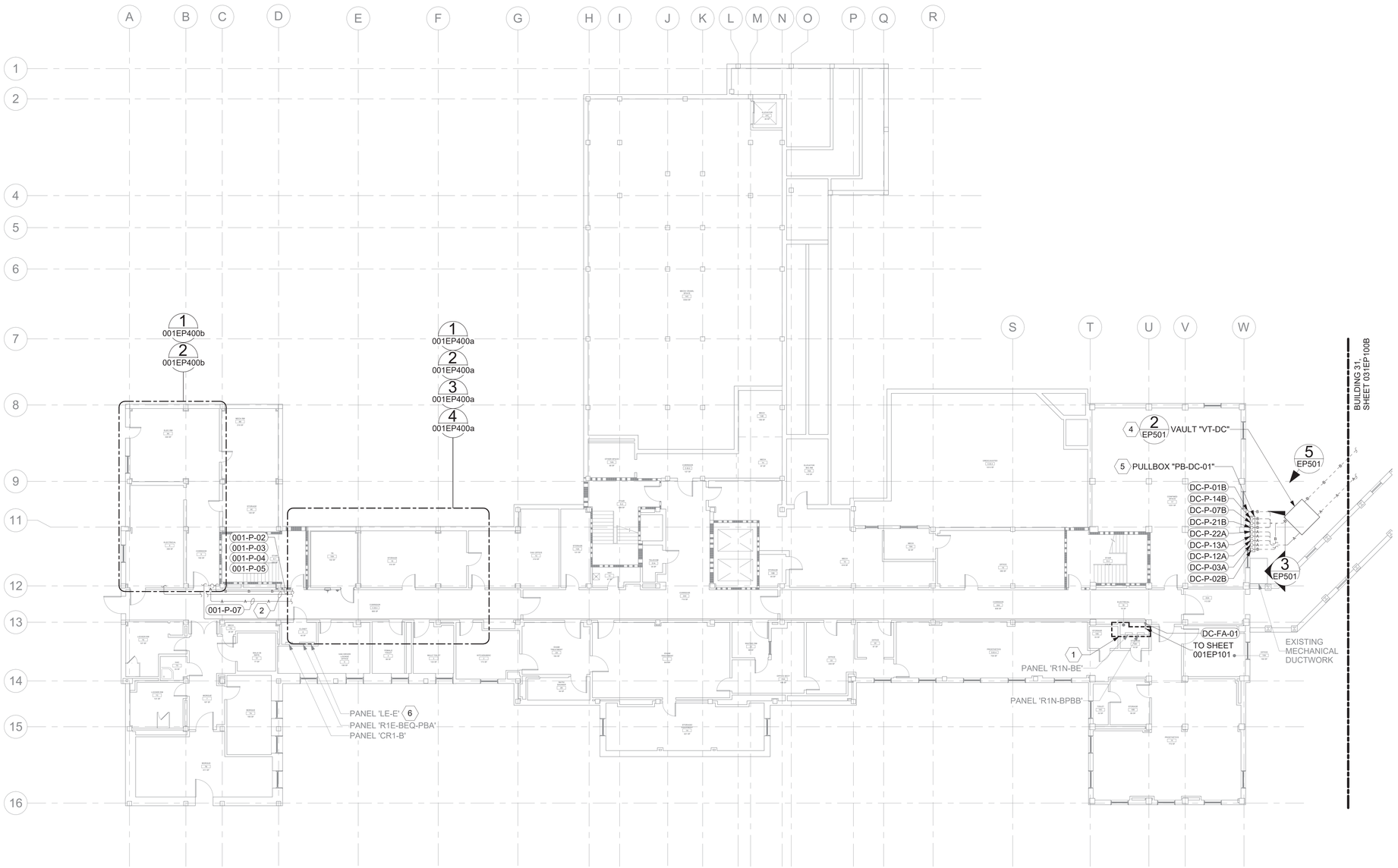
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL LEGENDS
Phase: 100% CONSTRUCTION DOCUMENTS
Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Project Number: 405-22-700
Building Number: -
Approved:
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Issue Date: 01/16/2026
Checked: NVP/DCW
Drawn: RTS/KDB
Drawing Number: EPG002



1 BLDG 001 - LEVEL 00 - ELECTRICAL PLAN

3/32" = 1'-0"

PROJECT NORTH

0 8' 16' 24'

LEGEND
PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.
A——A 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
B——B 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
A - - - A 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
B - - - B 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

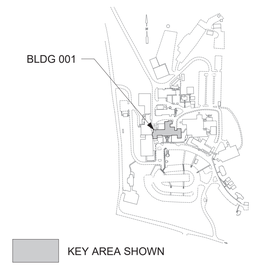
GENERAL NOTES

1. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL REMOVE ALL ELECTRICAL EQUIPMENT, CONDUCTORS, AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION OF MILLWORK.
3. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BE INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFORM WITH VA STANDARDS.
4. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH EXISTING FIRE RATING OR NEW FIRE RATING, IF REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
5. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
6. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
7. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULLBOX PLACEMENT AND SIZING BY CONTACTOR. COORDINATE PULLBOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.

KEY NOTES

1. APPROXIMATE FOOTPRINT OF ROOM "166" LOCATED ON FLOOR ABOVE. REFERENCE SHEET 001EP101 FOR ADDITIONAL INFORMATION.
2. PROVIDE TBB(S) AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.
3. CONDUITS SHALL BE ROUTED EXTERNALLY TO CORRIDOR CONNECTING BUILDING 001 AND 031. PROVIDE UNISTRUT SUPPORT FOR EQUIPMENT RACEWAYS, SUPPORT SPACING SHALL BE PER NEC. UNISTRUT SHALL BE HOT-DIPPED GALVANIZED; ALL FASTENING HARDWARE SHALL BE STAINLESS STEEL.
4. EXISTING ABANDONED VAULT TO BE DEMOLISHED. PROVIDE ELECTRICAL VAULT AS INDICATED.
5. CONDUIT ROUTED VERTICALLY ON EXTERIOR OF BUILDING TO LEVEL 03 OF BUILDING 1. PROVIDE PULLBOX FOR TRANSITION FROM UNDERGROUND TO VERTICAL CONDUIT. REFERENCE SHEET 001EP100 FOR ADDITIONAL INFORMATION.
6. UTILIZE PANELBOARD "LE-E" TO PROVIDE (2) CIRCUIT BREAKERS TO SERVE DATA CENTER MCR LIFE SAFETY LOADS. REFERENCE SHEETS 001EL403a, 001EL403b, 001EL403c, AND 001EP403d FOR ASSOCIATED LIFE SAFETY LOADS.

KEY PLAN



KEY AREA SHOWN

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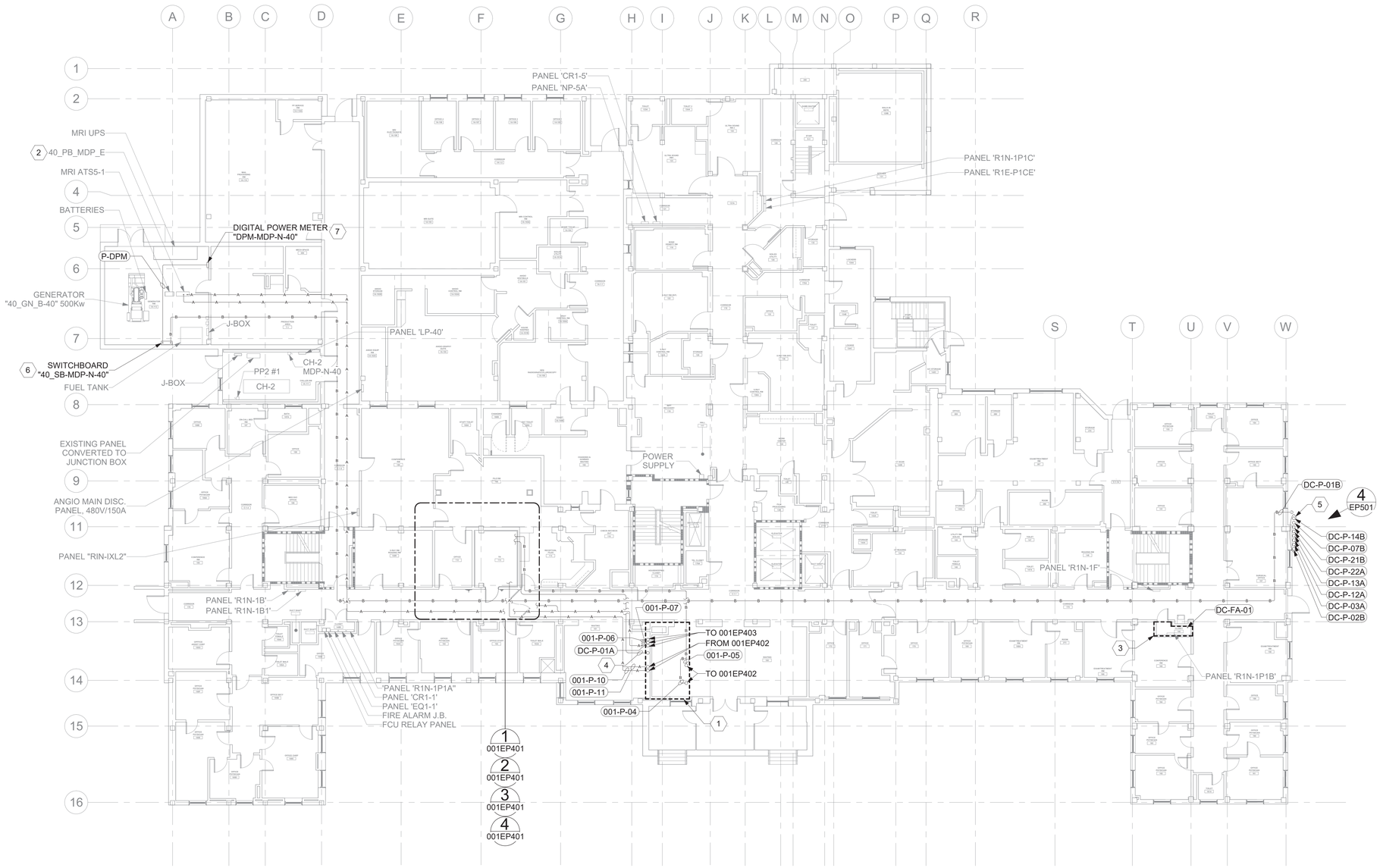
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 001 - LEVEL 00 - ELECTRICAL PLAN	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER	Project Number: 405-22-700
	Building Number: 001
Location: VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009	Drawing Number: 001EP100
Issue Date: 01/16/2026 / Checked: NVP/DCW / Drawn: RTS/KDB	



1 BLDG 001 - LEVEL 01 - ELECTRICAL PLAN

3/32" = 1'-0"

PROJECT NORTH

0 8' 16' 24'

LEGEND
PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.
A——A 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
B——B 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
A - - - A 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
B - - - B 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

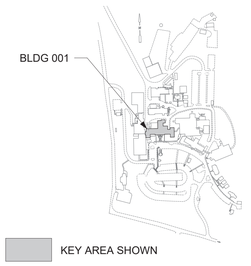
GENERAL NOTES

1. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL REMOVE ALL ELECTRICAL EQUIPMENT, CONDUCTORS, AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION OF MILLWORK.
3. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BE INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFORM WITH VA STANDARDS.
4. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH EXISTING FIRE RATING OR NEW FIRE RATING, IF REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
5. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
6. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
7. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULLBOX PLACEMENT AND SIZING BY CONTACTOR. COORDINATE PULLBOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.

KEY NOTES

1. APPROXIMATE FOOTPRINT OF TR "201" LOCATED ON FLOOR ABOVE. FEEDERS ROUTE THROUGH VERTICALLY STACKED TR "201"; REFERENCE ENLARGED ELECTRICAL PLANS 001EP402 FOR ADDITIONAL INFORMATION.
2. MODIFIED EQUIPMENT. REFERENCE BUILDING 001 ONE-LINE DIAGRAMS FOR ADDITIONAL INFORMATION.
3. APPROXIMATE FOOTPRINT OF ROOM "265" LOCATED ON FLOOR ABOVE. REFERENCE SHEET 001EP102 FOR ADDITIONAL INFORMATION.
4. PROVIDE TBB(S) AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.
5. CONDUIT ROUTED VERTICALLY ON EXTERIOR OF BUILDING. REFERENCE SHEETS 001EP100 AND 001EP102 FOR ADDITIONAL INFORMATION.
6. EXISTING PANELBOARD TO BE DEMOLISHED AND REPLACED. PRESERVE FEEER CIRCUITS FOR RETERMINATION. REFERENCE DETAIL 5 ON SHEET EP501 FOR ADDITIONAL INFORMATION.
7. PROVIDE DIGITAL POWER METER. COORDINATE PLACEMENT WITH EXISTING CONDITIONS AS REQUIRED.

KEY PLAN



KEY AREA SHOWN

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SDB SPEESDESIGNBUILD

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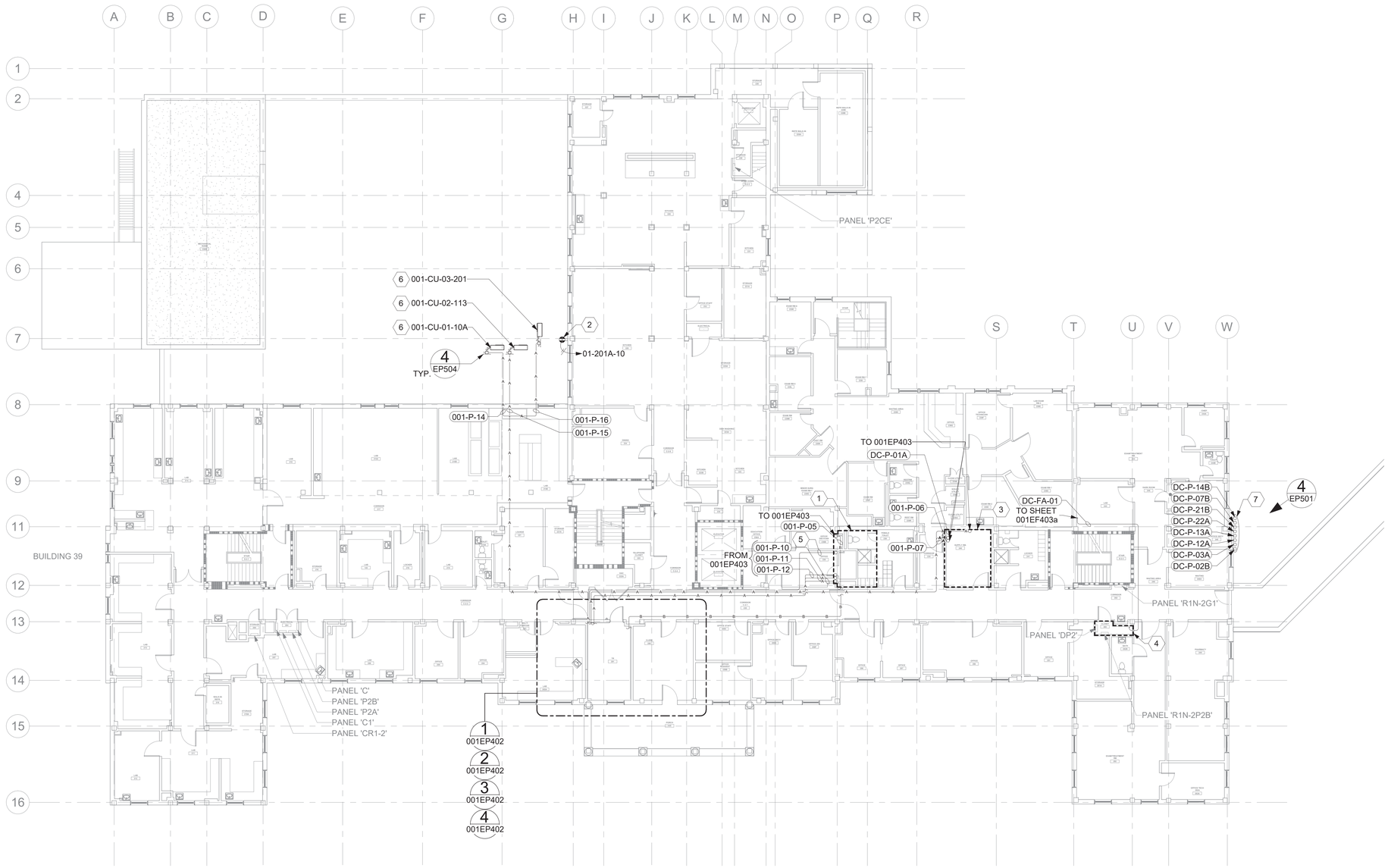
LOUIS R. LITZAU — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	BLDG 001 - LEVEL 01 - ELECTRICAL PLAN
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Project Number	405-22-700
Building Number	001
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Drawing Number	001EP101
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB



1 BLDG 001 - LEVEL 02 - ELECTRICAL PLAN

3/32" = 1'-0"

PROJECT NORTH

0 8' 16' 24'

LEGEND
PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.
A——A 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
B——B 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
A - - - A 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
B - - - B 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

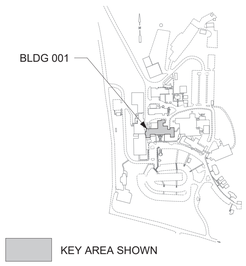
GENERAL NOTES

1. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL REMOVE ALL ELECTRICAL EQUIPMENT, CONDUCTORS, AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION OF MILLWORK.
3. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BH INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFORM WITH VA STANDARDS.
4. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH EXISTING FIRE RATING OR NEW FIRE RATING, IF REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
5. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
6. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
7. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULLBOX PLACEMENT AND SIZING BY CONTACTOR. COORDINATE PULLBOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.

KEY NOTES

1. APPROXIMATE FOOTPRINT OF TR "331" LOCATED ON FLOOR ABOVE. FEEDERS ROUTE THROUGH VERTICALLY STACKED TR "331"; REFERENCE ENLARGED ELECTRICAL PLANS 001EP403 FOR ADDITIONAL INFORMATION.
2. PROVIDE CONVENIENCE RECEPTACLE, 20A, 120V, GFCI, WR, WITH WHILE-IN-USE COVER.
3. APPROXIMATE FOOTPRINT OF ROOM "333" LOCATED ON FLOOR ABOVE. REFERENCE ENLARGED ELECTRICAL PLANS 001EP403 FOR ADDITIONAL INFORMATION.
4. APPROXIMATE FOOTPRINT OF ROOM "166" LOCATED ON FLOOR BELOW. REFERENCE SHEET 001EP101 FOR ADDITIONAL INFORMATION.
5. PROVIDE TBB(S) AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.
6. CONTRACTOR SHALL PROVIDE BOND FROM ROOFTOP MECHANICAL UNIT TO EXISTING BUILDING LIGHTNING PROTECTION SYSTEM ROOFTOP CONDUCTOR. CONTRACTOR SHALL COORDINATE WITH EXISTING BUILDING LIGHTNING PROTECTION SYSTEM AS REQUIRED. REFERENCE DETAIL '3' ON SHEET EP504 FOR ADDITIONAL INFORMATION.
7. CONDUIT ROUTED VERTICALLY ON EXTERIOR OF BUILDING. REFERENCE SHEETS 001EP101 AND 001EP403a FOR ADDITIONAL INFORMATION.

KEY PLAN



KEY AREA SHOWN

Revisions:	Date:
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CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

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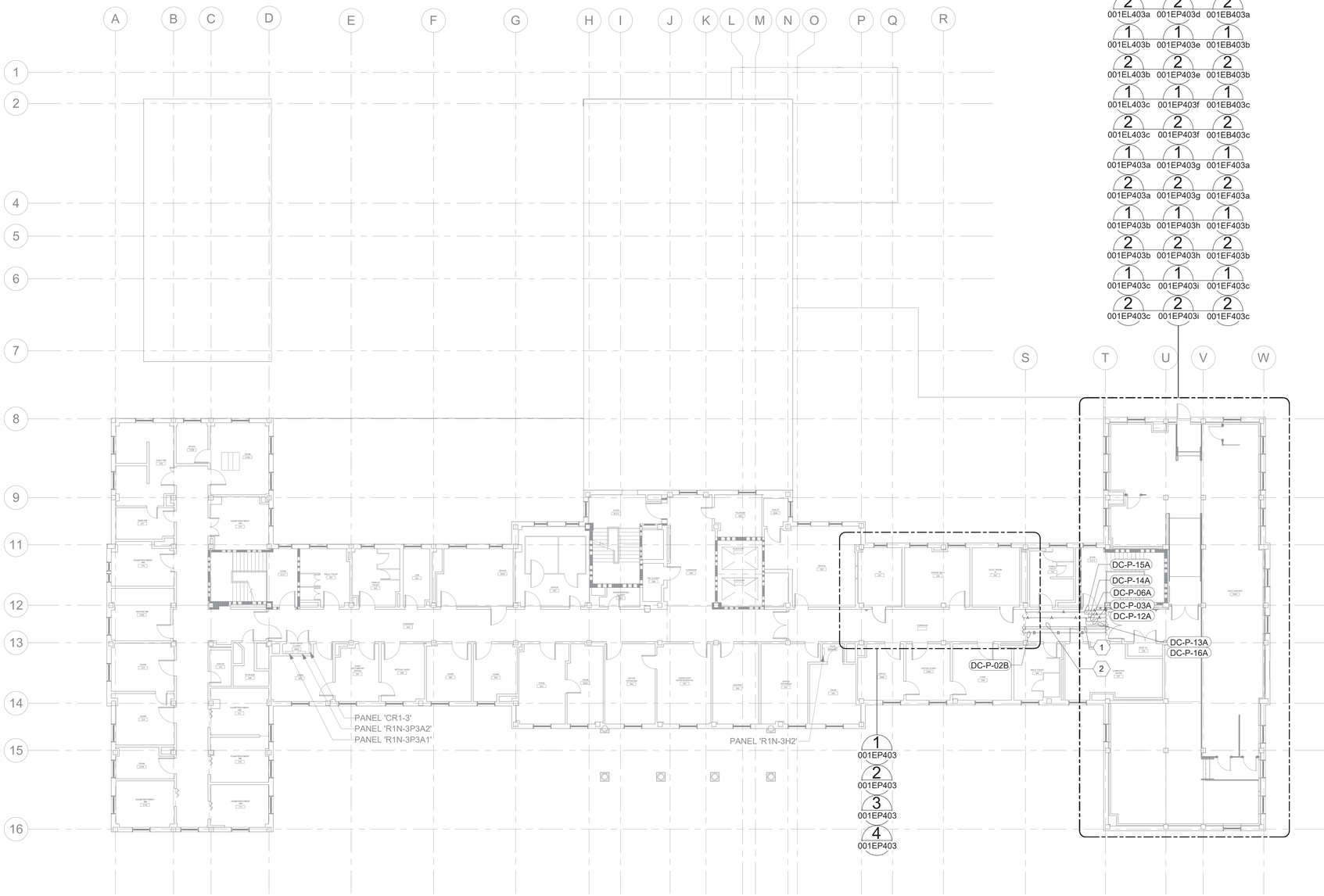
LOUIS R. LITZSO — STATE OF WASHINGTON — 55681 — 1-16-25 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	BLDG 001 - LEVEL 02 - ELECTRICAL PLAN
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Project Number	405-22-700
Building Number	001
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Drawing Number	001EP102
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB



1 / - BLDG 001 - LEVEL 03 - ELECTRICAL PLAN

3/32" = 1'-0"

PROJECT NORTH

0 8' 16' 24'

LEGEND

PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.

- A——A 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
- B——B 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
- A - - - A 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
- B - - - B 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

GENERAL NOTES

1. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL REMOVE ALL ELECTRICAL EQUIPMENT, CONDUCTORS, AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION OF MILLWORK.
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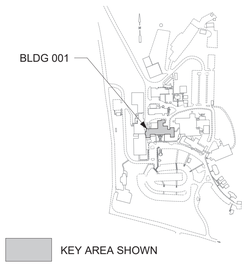
4. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH EXISTING FIRE RATING OR NEW FIRE RATING, IF REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
5. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
6. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
7. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULLBOX PLACEMENT AND SIZING BY CONTACTOR. COORDINATE PULLBOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.

KEY NOTES

1. PROVIDE TBB(S) AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.
2. PROVIDE BACKBONE BONDING CONDUCTOR (BBC) TO BOND SBBs WHEN MULTIPLE TRs ARE PRESENT ON FLOOR, MINIMUM CONDUCTOR SIZE SHALL BE EQUAL TO TBB.

KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE

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ARCHITECT/ ENGINEER OF RECORD

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SDB SPEESDESIGNBUILD

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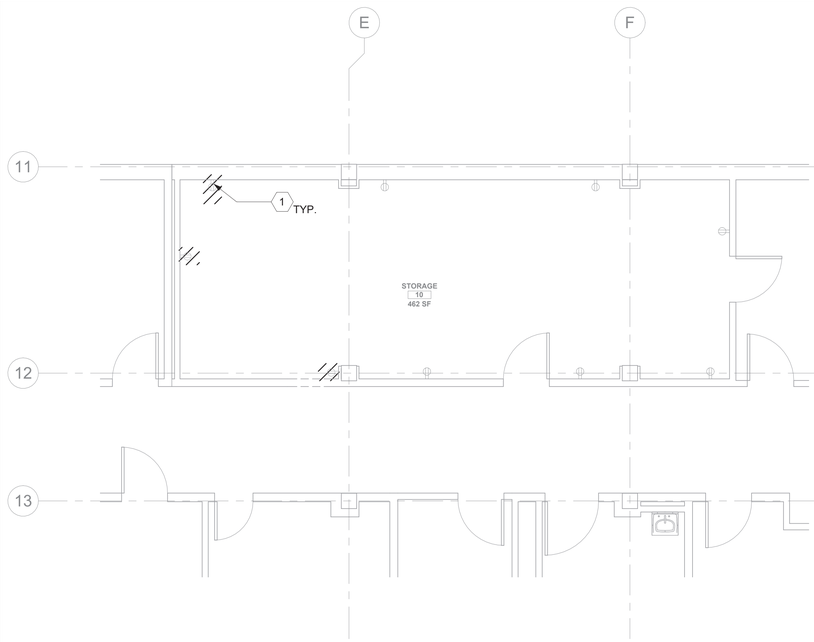
LOUIS R. LITZKO — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

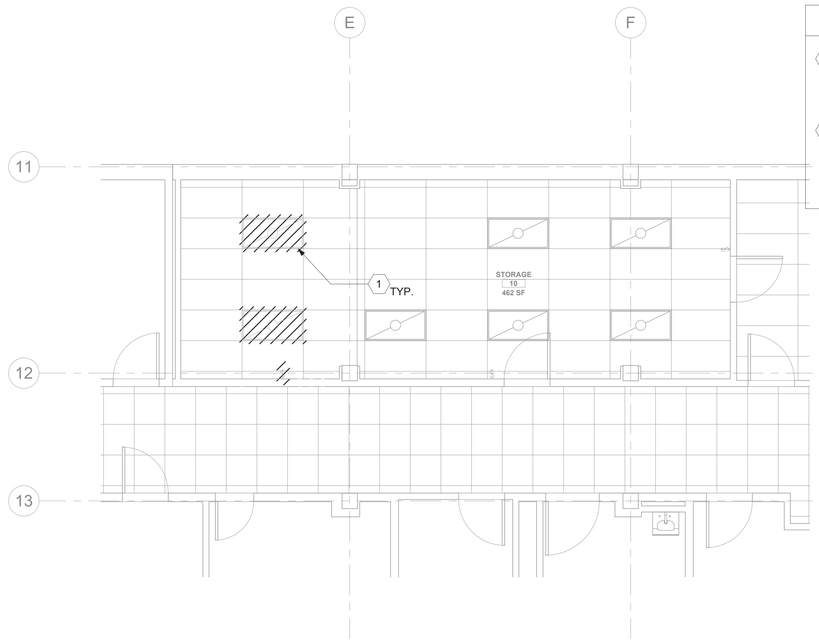
VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 001 - LEVEL 03 - ELECTRICAL PLAN	Phase: 100% CONSTRUCTION DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER	Project Number: 405-22-700
Approved:	FULLY SPRINKLERED	Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009	Building Number: 001
		Issue Date: 01/16/2026 / Checked: NVP/DCW / Drawn: RTS/KDB	Drawing Number: 001EP103



1 001EP100 RM 10 - DEMO ELECTRICAL PLAN

1/4" = 1'-0"



2 001EP100 RM 10 - DEMO LIGHTING PLAN

1/4" = 1'-0"

KEY NOTES

9 PROVIDE TBB(S) AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.

10 PROVIDE SBC AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.

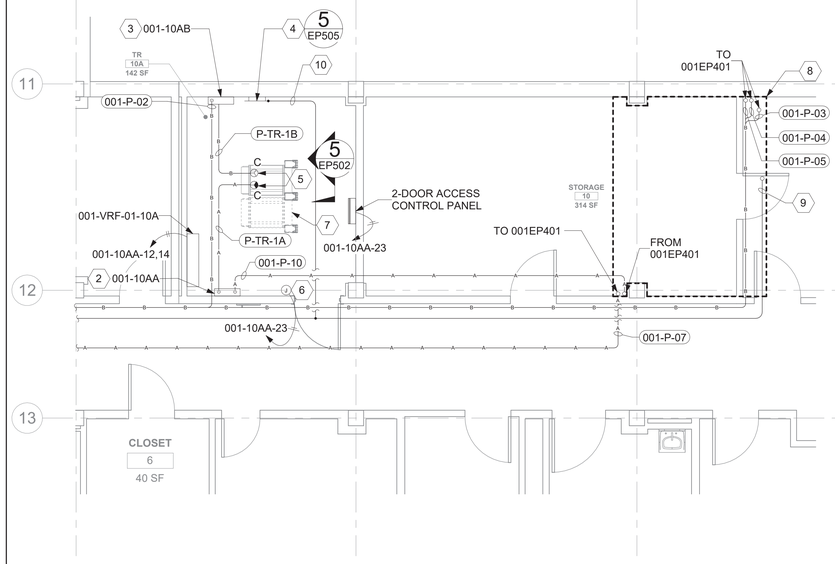
LEGEND

PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.

- A——A 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
- B——B 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
- A- - -A 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
- B- - -B 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

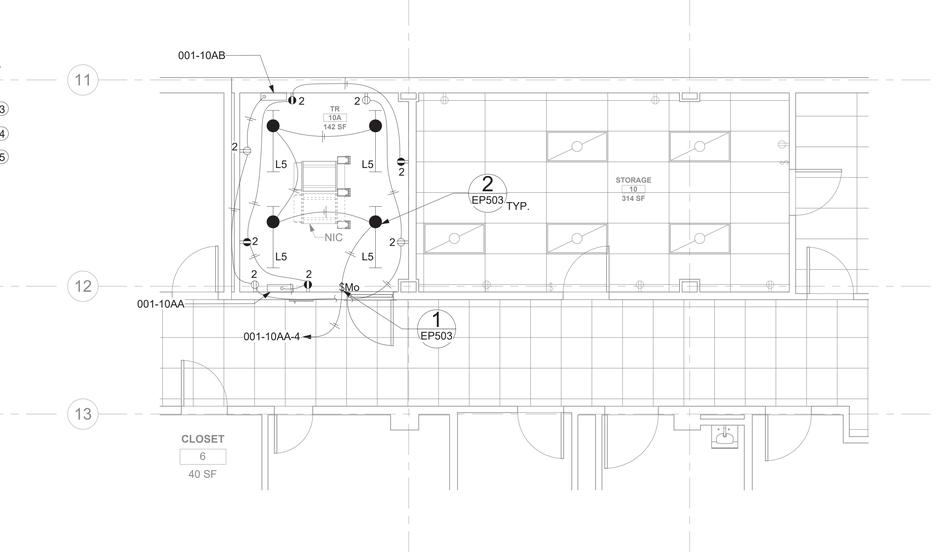
GENERAL NOTES

1. DEMOLITION PLANS/NOTES ARE BASED ON SITE INVESTIGATIONS AND RECORD DRAWINGS. IF DISCREPANCIES ARE FOUND THAT MAY IMPACT WORK, PROMPTLY NOTIFY VA AND ENGINEER OF SAID DISCREPANCY.
2. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL DEMOLISH ALL ELECTRICAL EQUIPMENT, CONDUCTORS AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION, UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BE INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFORM WITH VA STANDARDS.
5. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH EXISTING FIRE RATING OR NEW FIRE RATING, IF REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
6. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
7. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
8. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULL BOX PLACEMENT AND SIZING BY CONTRACTOR. COORDINATE PULL BOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.
9. ALL RECEPTACLES AND SWITCHES SHALL BE PROVIDED WITH PANEL AND CIRCUIT LABELING LOCATED DIRECTLY ON THE WALL PLATE; IE:"P4-1", PANEL "4", CIRCUIT "1". REFERENCE WIRING DEVICE SPECIFICATIONS FOR ADDITIONAL INFORMATION.



3 001EP100 RM 10A - ELECTRICAL PLAN

1/4" = 1'-0"



4 001EP100 RM 10A - LIGHTING AND RECEPTACLE PLAN

1/4" = 1'-0"

KEY NOTES

1 EXISTING EQUIPMENT SHALL BE DEMOLISHED. ASSOCIATED RACEWAYS AND CONDUCTORS SHALL BE DEMOLISHED BACK TO SOURCE. EXTEND EXISTING RACEWAYS AND CONDUCTORS TO MAINTAIN CIRCUITRY TO REMAIN.

2 SOURCE A POWER PANELBOARD "001-10AA".

3 SOURCE B POWER PANELBOARD "001-10AB".

4 PROVIDE SECONDARY BONDING BUSBAR. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.

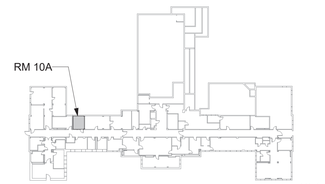
5 OVERHEAD TR RACK SOURCE A AND SOURCE B POWER RECEPTACLE.

6 FURNISH AND INSTALL POWER SUPPLY WITHIN JUNCTION BOX AS INDICATED ABOVE ACCESSIBLE CEILINGS. VERIFY LOCATIONS WITH ARCHITECT. PROVIDE (1) POWER SUPPLY FOR EACH DOOR OPENING. PROVIDE 120V POWER TO SERVE DOORS WITH ELECTRIFIED DOOR HARDWARE AND MAKE CONNECTIONS AS REQUIRED. REFERENCE PANEL SCHEDULE "001-10AA" FOR CIRCUITING INFORMATION. SEE REQUIREMENTS IN 08 71 00 - DOOR HARDWARE. COORDINATE WITH ARCHITECT AND DOOR INSTALLER.

7 TELECOM RACK IS NOT IN CONTRACT (NIC). SPARE CIRCUIT BREAKER HAS BEEN PROVIDED FOR FUTURE EQUIPMENT. REFERENCE BUILDING 001 PANEL SCHEDULES FOR ADDITIONAL INFORMATION.

8 APPROXIMATE FOOTPRINT OF TR "113" LOCATED ON FLOOR ABOVE. FEEDERS ROUTE THROUGH VERTICALLY STACKED TR "10A"; REFERENCE ENLARGED ELECTRICAL PLANS 001EP401 FOR ADDITIONAL INFORMATION.

KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
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STAMP

LOUIS R. LITSTRO
STATE OF WASHINGTON
55681
1-16-25
REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 001 - LEVEL 00 - ENLARGED ELECTRICAL PLANS

Phase: 100% CONSTRUCTION DOCUMENTS

Approved:

FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER

Project Number: 405-22-700

Building Number: 001

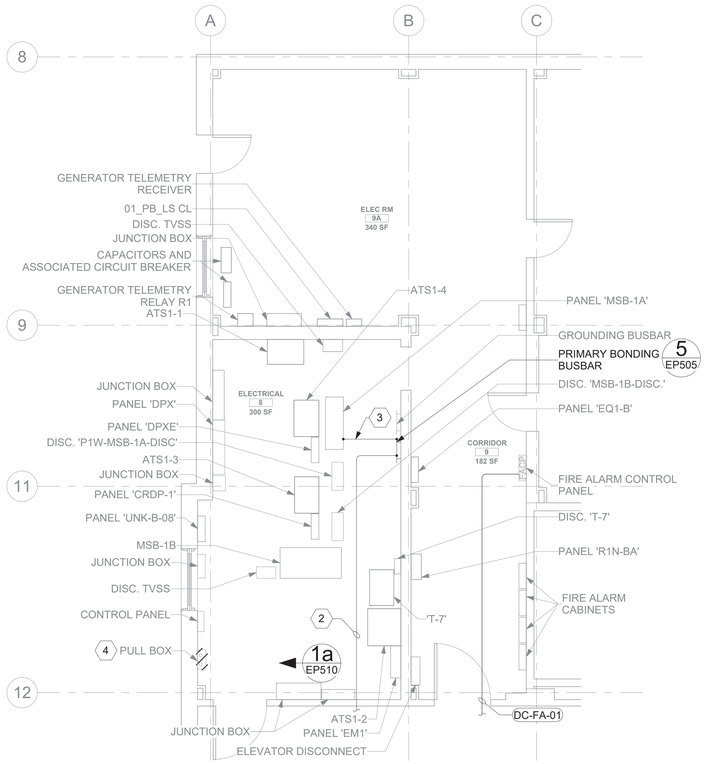
Location: VA VT WHITE RIVER JUNCTION
163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009

Drawing Number: 001EP400a

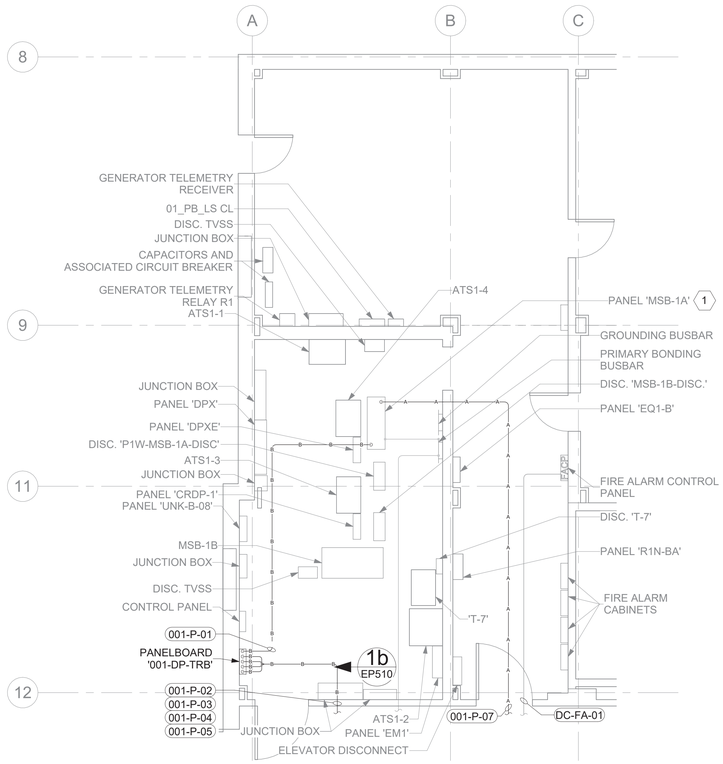
Issue Date: 01/16/2026

Checked: NVP/DCW

Drawn: RTS/KDB



1 RM 8 AND 9 - ELECTRICAL PLAN - PHASE 01
001EP100 1/4" = 1'-0"



2 RM 8 AND 9 - ELECTRICAL PLAN - PHASE 02
001EP100 1/4" = 1'-0"

LEGEND	
PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.	
A——A	'A' SIDE POWER, CONCEALED WHERE POSSIBLE
B——B	'B' SIDE POWER, CONCEALED WHERE POSSIBLE
A - - - A	'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
B - - - B	'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

GENERAL NOTES

1. DEMOLITION PLANS/NOTES ARE BASED ON SITE INVESTIGATIONS AND RECORD DRAWINGS. IF DISCREPANCIES ARE FOUND THAT MAY IMPACT WORK, PROMPTLY NOTIFY VA AND ENGINEER OF SAID DISCREPANCY.
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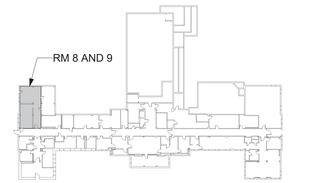
7. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
8. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULL BOX PLACEMENT AND SIZING BY CONTRACTOR. COORDINATE PULL BOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.
9. ALL RECEPTACLES AND SWITCHES SHALL BE PROVIDED WITH PANEL AND CIRCUIT LABELING LOCATED DIRECTLY ON THE WALL PLATE; IE:"P4-1", PANEL "4", CIRCUIT "1". REFERENCE WIRING DEVICE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEY NOTES

1. MODIFIED EQUIPMENT. REFERENCE BUILDING 001 ONE-LINE DIAGRAMS FOR ADDITIONAL INFORMATION.
2. PROVIDE TBB(S) AS INDICATED, WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE. CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.
3. PROVIDE TBC AS SHOWN. REFERENCE TELECOM BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.
4. DEMOLISH EXISTING PULL BOX AS INDICATED. CAP EXISTING RACEWAYS TO FLOOR.

KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

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SPEES DESIGN BUILD
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LOUIS R. LITZKO
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1-16-26
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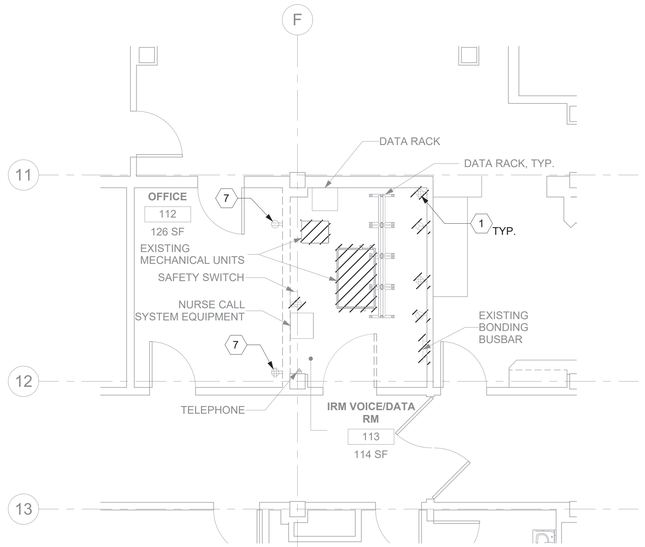
PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

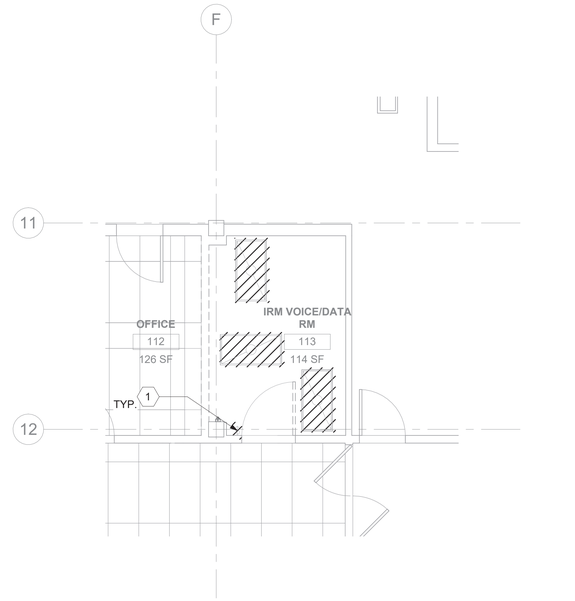
Drawing Title: BLDG 001 - LEVEL 00 - ENLARGED ELECTRICAL PLANS	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER			Project Number: 405-22-700
			Building Number: 001
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009			Drawing Number: 001EP400b
Issue Date: 01/16/2026	Checked: NVP/DCW	Drawn: RTS/KDB	



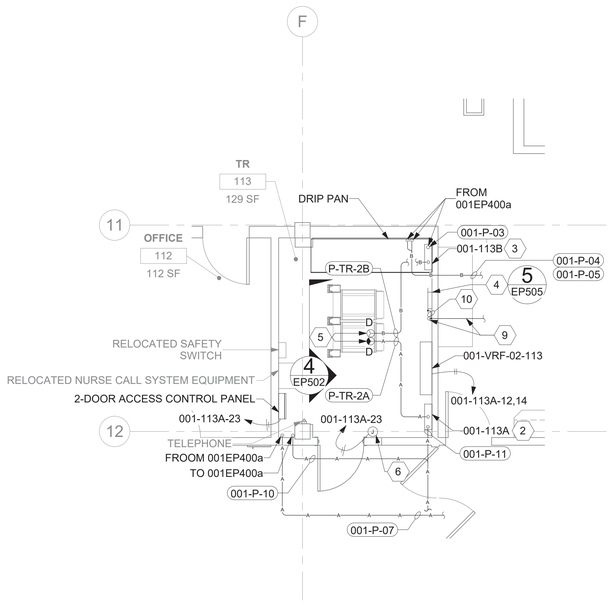
1 001EP101 RM 113 - DEMO ELECTRICAL PLAN

1/4" = 1'-0"



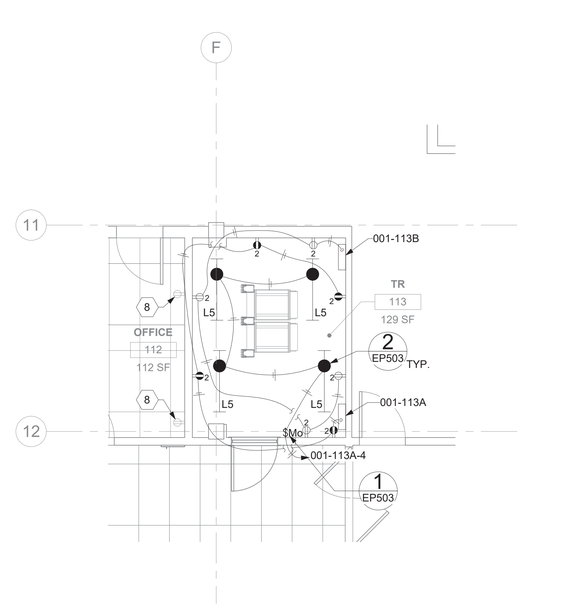
2 001EP101 RM 113 - DEMO LIGHTING PLAN

1/4" = 1'-0"



3 001EP101 RM 113 - ELECTRICAL PLAN

1/4" = 1'-0"



4 001EP101 RM 113 - LIGHTING AND RECEPTACLE PLAN

1/4" = 1'-0"

KEY NOTES

10 PROVIDE SBC AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.

LEGEND

PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.

- A——A — 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
- B——B — 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
- A - - - A — 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
- B - - - B — 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

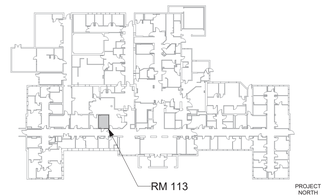
GENERAL NOTES

1. DEMOLITION PLANS/NOTES ARE BASED ON SITE INVESTIGATIONS AND RECORD DRAWINGS. IF DISCREPANCIES ARE FOUND THAT MAY IMPACT WORK, PROMPTLY NOTIFY VA AND ENGINEER OF SAID DISCREPANCY.
2. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL DEMOLISH ALL ELECTRICAL EQUIPMENT, CONDUCTORS AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION, UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BE INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFORM WITH VA STANDARDS.
5. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH EXISTING FIRE RATING OR NEW FIRE RATING, IF REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
6. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
7. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
8. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULL BOX PLACEMENT AND SIZING BY CONTRACTOR. COORDINATE PULL BOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.
9. ALL RECEPTACLES AND SWITCHES SHALL BE PROVIDED WITH PANEL AND CIRCUIT LABELING LOCATED DIRECTLY ON THE WALL PLATE; IE:"P4-1", PANEL "4", CIRCUIT "1". REFERENCE WIRING DEVICE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEY NOTES

1. EXISTING EQUIPMENT SHALL BE DEMOLISHED. ASSOCIATED CONDUIT AND WIRE SHALL BE DEMOLISHED BACK TO SOURCE.
2. SOURCE A POWER PANELBOARD "001-113A".
3. SOURCE B POWER PANELBOARD "001-113B".
4. PROVIDE SECONDARY BONDING BUSBAR. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.
5. OVERHEAD TR RACK SOURCE A AND SOURCE B POWER RECEPTACLE.
6. FURNISH AND INSTALL POWER SUPPLY WITHIN JUNCTION BOX AS INDICATED ABOVE ACCESSIBLE CEILINGS. VERIFY LOCATIONS WITH ARCHITECT. PROVIDE (1) POWER SUPPLY FOR EACH DOOR OPENING. PROVIDE 120V POWER TO SERVE DOORS WITH ELECTRIFIED DOOR HARDWARE AND MAKE CONNECTIONS AS REQUIRED; REFERENCE PANEL SCHEDULE "001-113A" FOR CIRCUITING INFORMATION. SEE REQUIREMENTS IN 08 71 00 - DOOR HARDWARE. COORDINATE WITH ARCHITECT AND DOOR INSTALLER.
7. EQUIPMENT SHALL BE RELOCATED. PRESERVE AND PROTECT EXISTING BRANCH CIRCUIT FOR RE-TERMINATION.
8. RELOCATED EQUIPMENT. RE-TERMINATE TO EXISTING BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
9. PROVIDE TBB(S) AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.

KEY PLAN



SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

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PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 001 - LEVEL 01 - ENLARGED ELECTRICAL PLANS	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER	Project Number: 405-22-700
	Building Number: 001
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009	Drawing Number: 001EP401
Issue Date: 01/16/2026 / Checked: NVP/DCW / Drawn: RTS/KDB	

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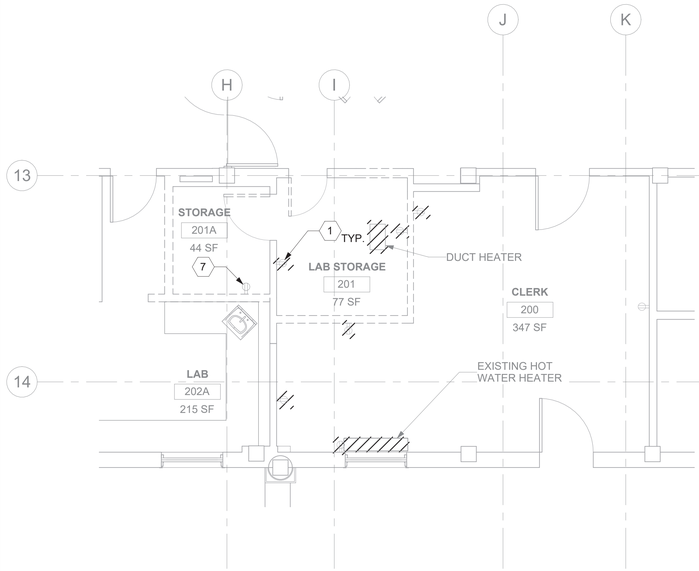
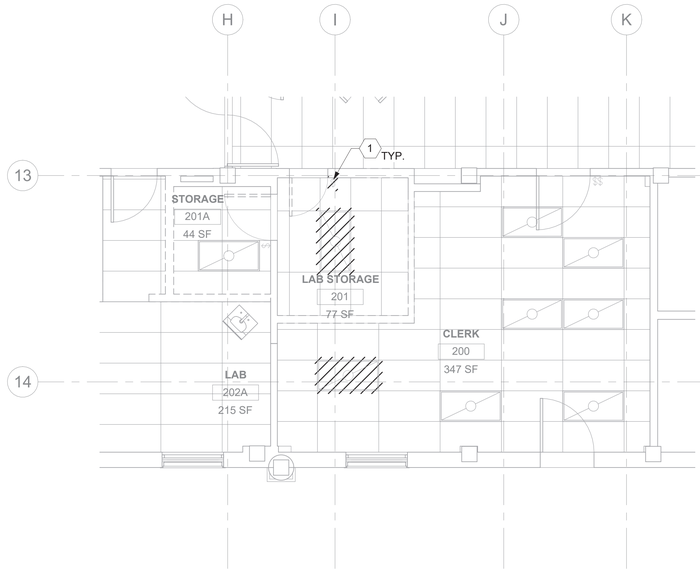


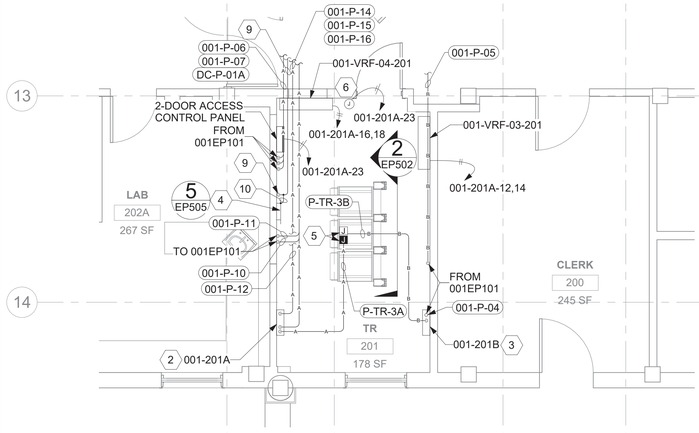
1 001EP102 RM 201 - DEMO ELECTRICAL PLAN

1/4" = 1'-0"



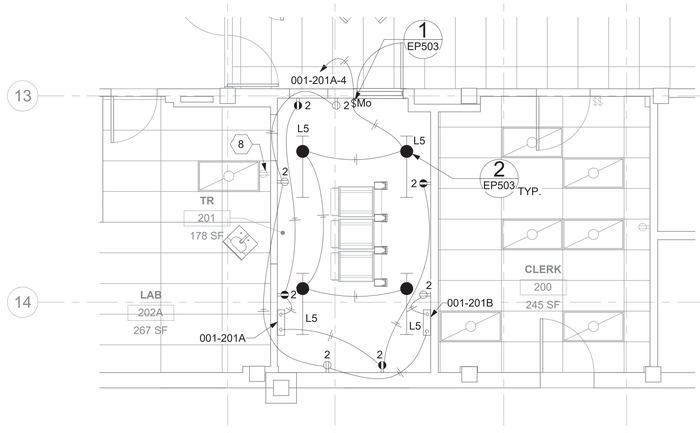
2 001EP102 RM 201 - DEMO LIGHTING PLAN

1/4" = 1'-0"



3 001EP102 RM 201 - ELECTRICAL PLAN

1/4" = 1'-0"



4 001EP102 RM 201 - LIGHTING AND RECEPTACLE PLAN

1/4" = 1'-0"

KEY NOTES

10 PROVIDE SBC AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.

LEGEND

PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.

- A——A 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
- B——B 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
- A - - - A 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
- B - - - B 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

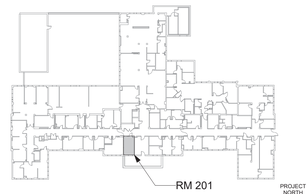
GENERAL NOTES

1. DEMOLITION PLANS/NOTES ARE BASED ON SITE INVESTIGATIONS AND RECORD DRAWINGS. IF DISCREPANCIES ARE FOUND THAT MAY IMPACT WORK, PROMPTLY NOTIFY VA AND ENGINEER OF SAID DISCREPANCY.
2. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL DEMOLISH ALL ELECTRICAL EQUIPMENT, CONDUCTORS AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION, UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BE INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFORM WITH VA STANDARDS.
5. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH EXISTING FIRE RATING OR NEW FIRE RATING, IF REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
6. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
7. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
8. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULL BOX PLACEMENT AND SIZING BY CONTRACTOR. COORDINATE PULL BOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.
9. ALL RECEPTACLES AND SWITCHES SHALL BE PROVIDED WITH PANEL AND CIRCUIT LABELING LOCATED DIRECTLY ON THE WALL PLATE; IE:"P4-1", PANEL "4", CIRCUIT "1". REFERENCE WIRING DEVICE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEY NOTES

1. EXISTING EQUIPMENT SHALL BE DEMOLISHED. ASSOCIATED RACEWAYS AND CONDUCTORS SHALL BE DEMOLISHED BACK TO SOURCE. EXTEND EXISTING RACEWAYS AND CONDUCTORS TO MAINTAIN CIRCUITRY TO REMAIN.
2. SOURCE A POWER PANELBOARD "001-201A".
3. SOURCE B POWER PANELBOARD "001-201B".
4. PROVIDE SECONDARY BONDING BUSBAR. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.
5. OVERHEAD TR RACK SOURCE A AND SOURCE B JUNCTION BOX.
6. FURNISH AND INSTALL POWER SUPPLY WITHIN JUNCTION BOX AS INDICATED ABOVE ACCESSIBLE CEILINGS. VERIFY LOCATIONS WITH ARCHITECT. PROVIDE (1) POWER SUPPLY FOR EACH DOOR OPENING. PROVIDE 120V POWER TO SERVE DOORS WITH ELECTRIFIED DOOR HARDWARE AND MAKE CONNECTIONS AS REQUIRED; REFERENCE PANEL SCHEDULE "001-201A" FOR CIRCUITING INFORMATION. SEE REQUIREMENTS IN 08 71 00 - DOOR HARDWARE. COORDINATE WITH ARCHITECT AND DOOR INSTALLER.
7. EQUIPMENT SHALL BE RELOCATED. INTERCEPT EXISTING BRANCH CIRCUIT AND EXTEND TO INDICATED LOCATION FOR RE-TERMINATION.
8. RELOCATED EQUIPMENT. RE-TERMINATE TO EXISTING BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
9. PROVIDE TBB(S) AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.

KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

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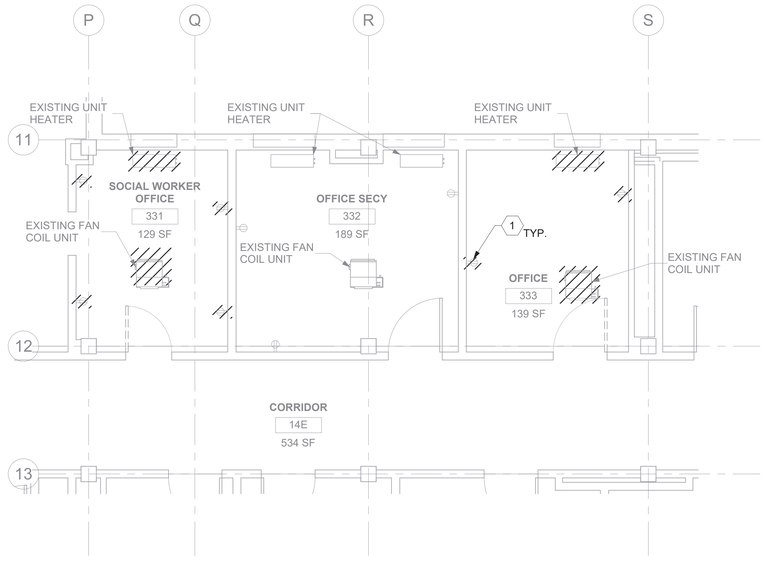
LOUIS R. LITSO — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

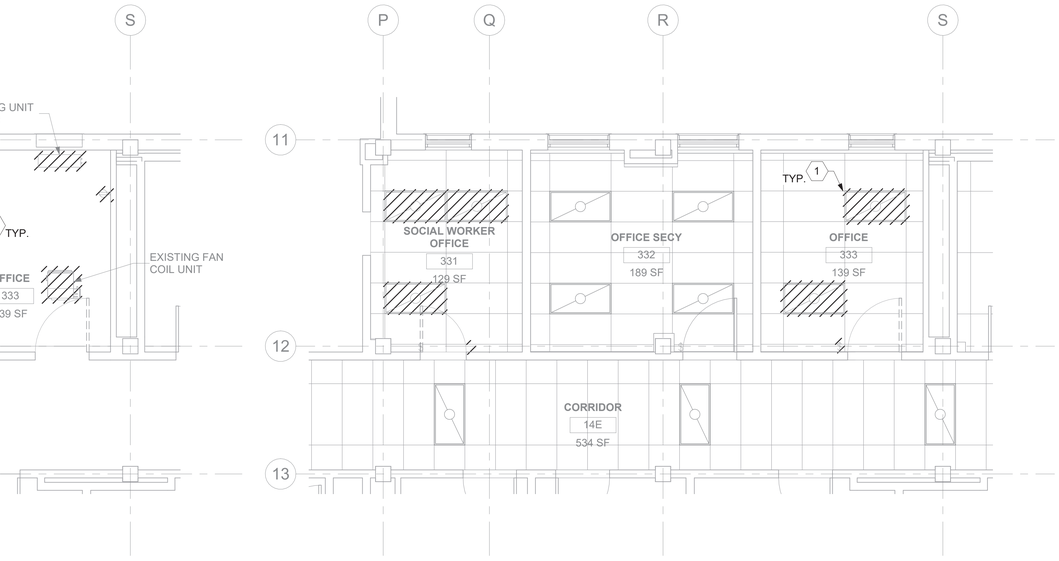
Drawing Title: BLDG 001 - LEVEL 02 - ENLARGED ELECTRICAL PLANS	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER		Project Number: 405-22-700
		Building Number: 001
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009		Drawing Number: 001EP402
Issue Date: 01/16/2026	Checked: NVP/DCW	Drawn: RTS/KDB



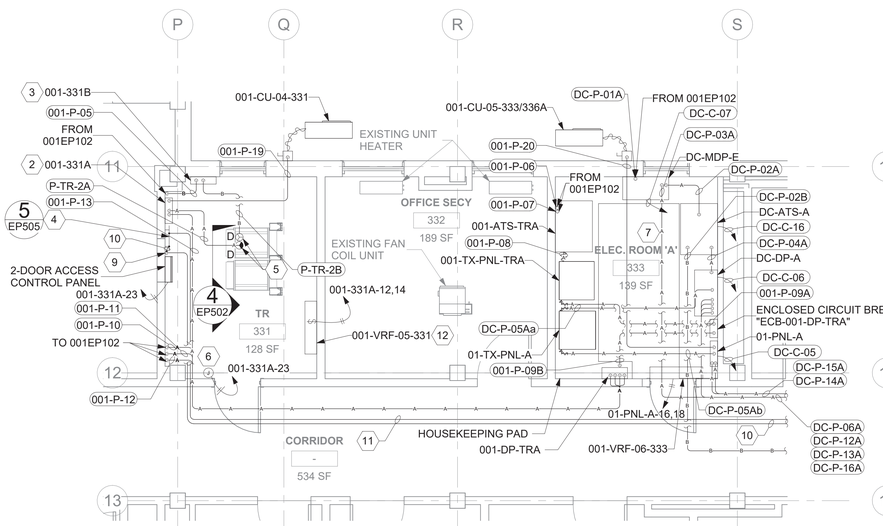
1 001EP103 RM 331-333 - DEMO ELECTRICAL PLAN

1/4" = 1'-0"



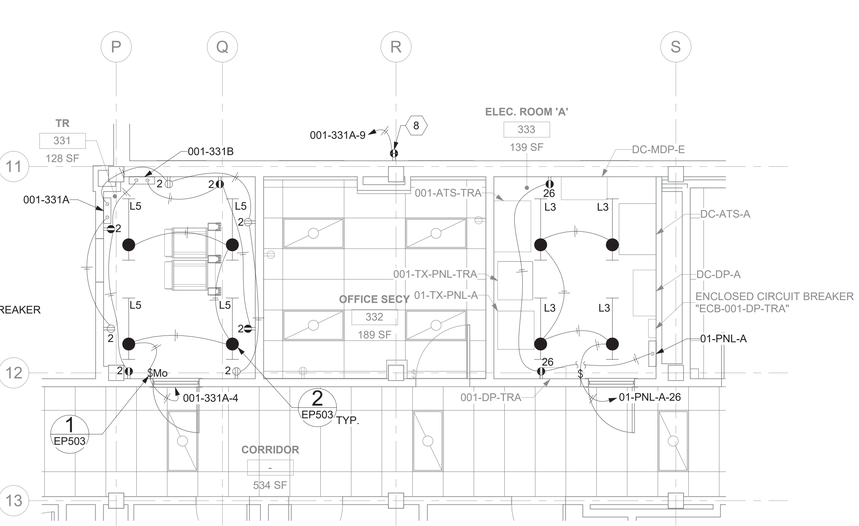
2 001EP103 RM 331-333 - DEMO LIGHTING PLAN

1/4" = 1'-0"



3 001EP103 RM 331-333 - ELECTRICAL PLAN

1/4" = 1'-0"



4 001EP103 RM 331-333 - LIGHTING AND RECEPTACLE PLAN

1/4" = 1'-0"

KEY NOTES

10 PROVIDE SBC AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.

11 PROVIDE BACKBONE BONDING CONDUCTOR (BBC) TO BOND SBBs WHEN MULTIPLE TRs ARE PRESENT ON FLOOR, MINIMUM CONDUCTOR SIZE SHALL BE EQUAL TO TBB.

12 PROVIDE EQUIPMENT WITH MOTOR RATED SWITCH.

LEGEND

PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.

- A——A 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
- B——B 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
- A - - - A 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
- B - - - B 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

GENERAL NOTES

1. DEMOLITION PLANS/NOTES ARE BASED ON SITE INVESTIGATIONS AND RECORD DRAWINGS. IF DISCREPANCIES ARE FOUND THAT MAY IMPACT WORK, PROMPTLY NOTIFY VA AND ENGINEER OF SAID DISCREPANCY.
2. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL DEMOLISH ALL ELECTRICAL EQUIPMENT, CONDUCTORS AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION, UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BE INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFORM WITH VA STANDARDS.
5. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH EXISTING FIRE RATING OR NEW FIRE RATING, IF REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
6. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
7. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
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KEY NOTES

1 EXISTING EQUIPMENT SHALL BE DEMOLISHED. ASSOCIATED CONDUIT AND WIRE SHALL BE DEMOLISHED BACK TO SOURCE.

2 SOURCE A POWER PANELBOARD.

3 SOURCE B POWER PANELBOARD.

4 PROVIDE SECONDARY BONDING BUSBAR. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.

5 OVERHEAD TR RACK SOURCE A AND SOURCE B POWER RECEPTACLE.

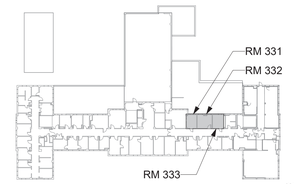
6 FURNISH AND INSTALL POWER SUPPLY WITHIN JUNCTION BOX AS INDICATED ABOVE ACCESSIBLE CEILINGS. VERIFY LOCATIONS WITH ARCHITECT. PROVIDE (1) POWER SUPPLY FOR EACH DOOR OPENING. PROVIDE 120V POWER TO SERVE DOORS WITH ELECTRIFIED DOOR HARDWARE AND MAKE CONNECTIONS AS REQUIRED. REFERENCE PANEL SCHEDULE "001-331A" FOR CIRCUITING INFORMATION. SEE REQUIREMENTS IN 08 71 00 - DOOR HARDWARE. COORDINATE WITH ARCHITECT AND DOOR INSTALLER.

7 REFERENCE SHEET EP507 FOR EQUIPMENT ELEVATIONS WITHIN ROOM.

8 PROVIDE CONVENIENCE RECEPTACLE, 20A, 120V, GFCI, WR, WITH WHILE-IN-USE COVER.

9 PROVIDE TBB(S) AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.

KEY PLAN



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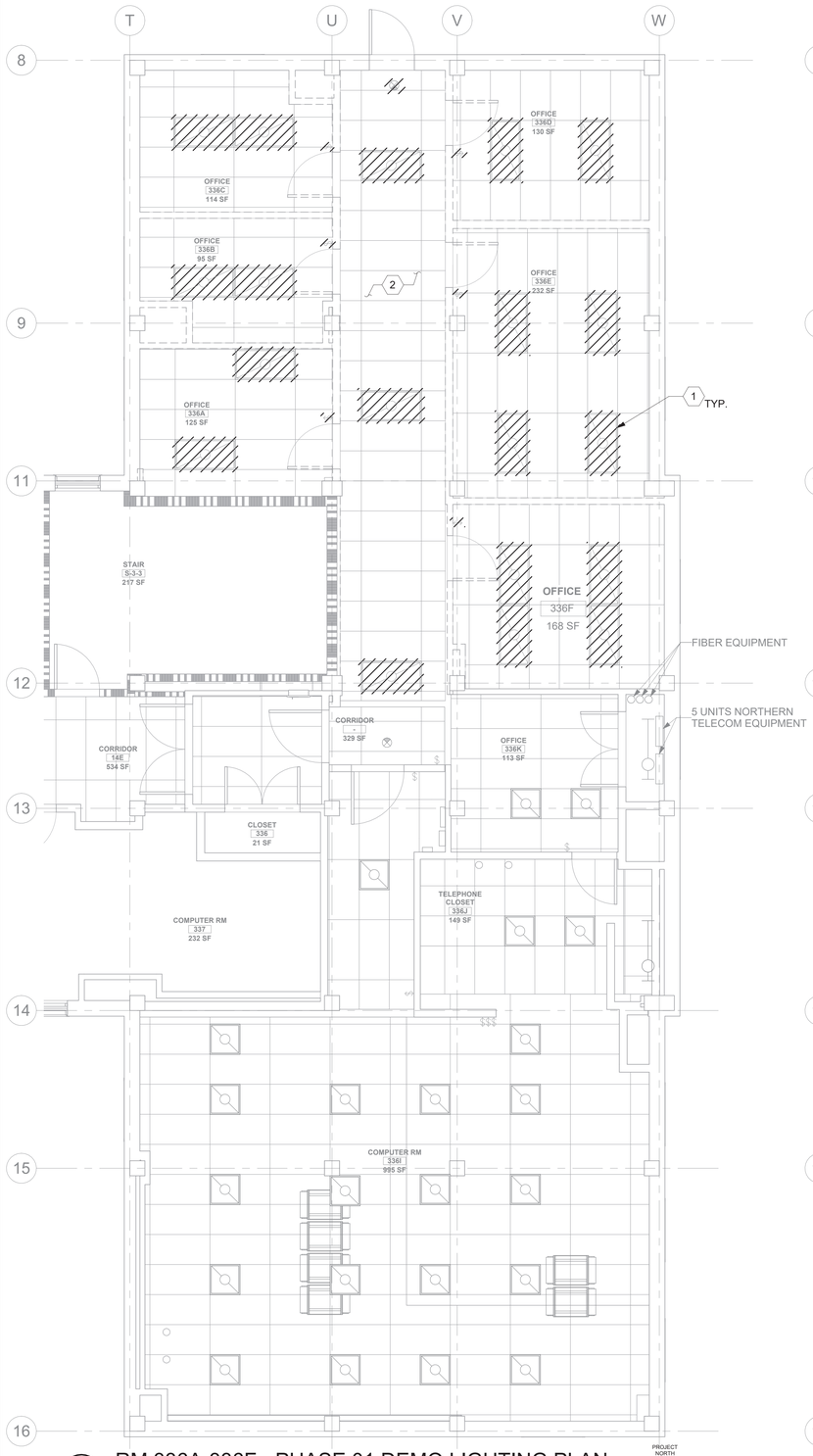
LOUIS R. LITZKO
STATE OF WASHINGTON
55681
1-16-26
REGISTERED
PROFESSIONAL ENGINEER

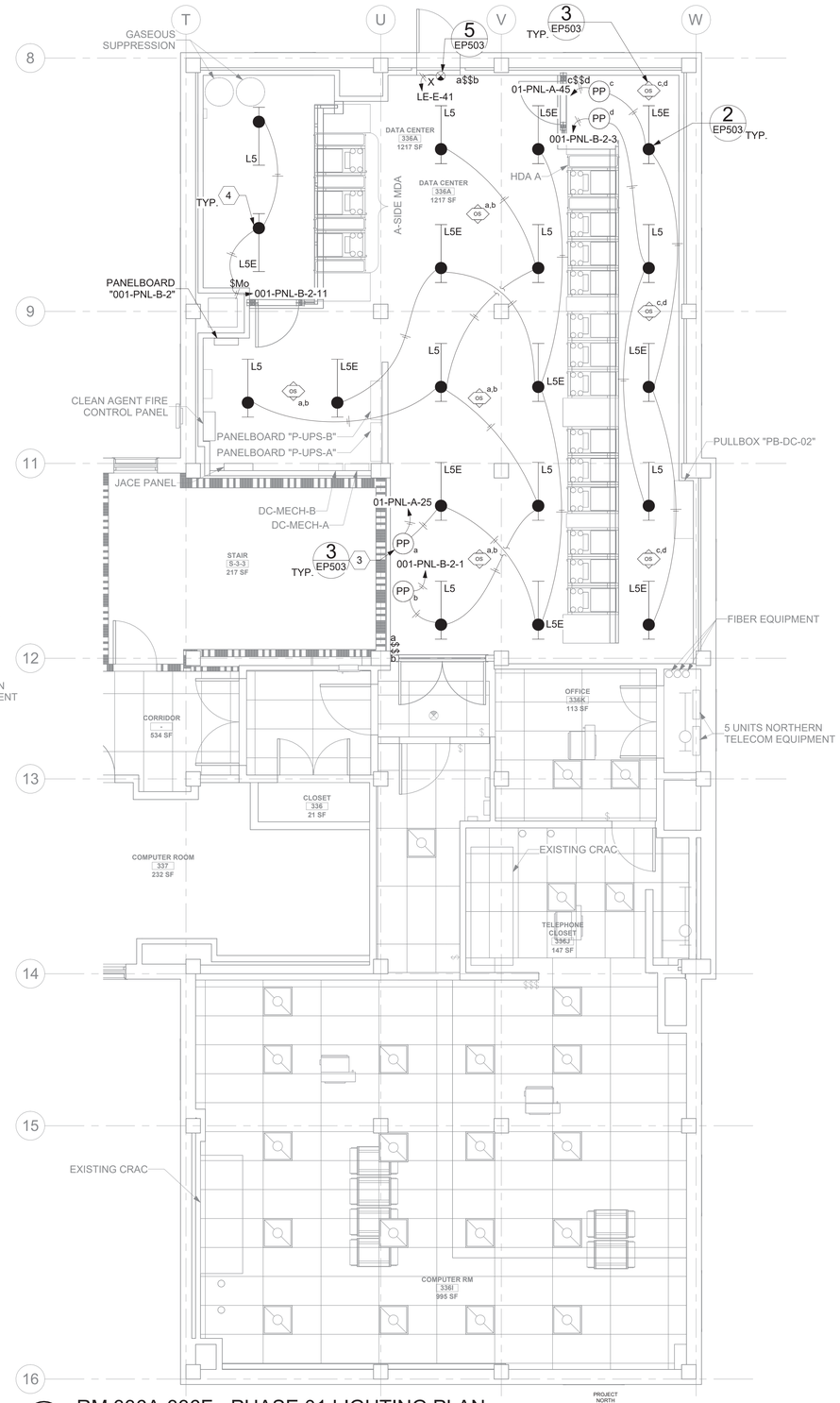
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	BLDG 001 - LEVEL 03 - ENLARGED ELECTRICAL PLANS
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB
Project Number	405-22-700
Building Number	001
Drawing Number	001EP403



1 RM 336A-336F - PHASE 01 DEMO LIGHTING PLAN
001EP103 1/4" = 1'-0"



2 RM 336A-336F - PHASE 01 LIGHTING PLAN
001EP103 1/4" = 1'-0"

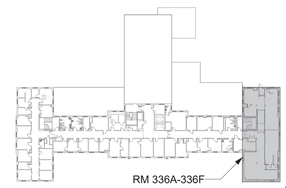
GENERAL NOTES

1. ALL ELECTRICAL WORK SHALL BE CLOSELY COORDINATED WITH THE CONTRACTORS PHASING OF THE PROJECT. COORDINATE ALL ELECTRICAL WORK WITH ALL OTHER TRADES.
2. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO SOURCE, UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL DEMOLISH ALL ELECTRICAL EQUIPMENT, CONDUCTORS AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION, UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BE INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFIRM WITH VA STANDARDS.
5. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH FIRE RATING. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
6. REFERENCE BUILDING ONE-LINE DIAGRAMS FOR PHASING INFORMATION.
7. NOT ALL CONDUIT AND WIRE MAY BE SHOWN FOR CLARITY. REFERENCE BUILDING 001 CONDUIT AND WIRE SCHEDULE FOR ADDITIONAL INFORMATION.
8. MAKE ALL CONNECTIONS TO EQUIPMENT PER MANUFACTURER'S REQUIREMENTS.
9. ALL LIGHTING CONTROLS SHALL BE LOW-VOLTAGE AND PROVIDE DIMMABLE CONTROL UNLESS OTHERWISE NOTED. LINE VOLTAGE WALL MOUNTED OCCUPANCY SWITCHES SHALL BE NON-DIMMABLE. ELECTRICAL AND MECHANICAL ROOMS SHALL HAVE LINE VOLTAGE, NON DIMMABLE, SNAP SWITCHES.

KEY NOTES

1. EXISTING EQUIPMENT SHALL BE DEMOLISHED. ASSOCIATED CONDUIT AND WIRE SHALL BE DEMOLISHED BACK TO SOURCE. WHERE EXISTING LIGHTING CONTROLS ARE TO BE DEMOLISHED FOR INSTALLATION OF NEW, CONTRACTOR SHALL PROVIDE TEMPORARY CONTROLS AND WIRING FOR EXISTING LIGHTING AS REQUIRED.
2. UTILIZE EXISTING ROOM CONVENIENCE RECEPTACLES TO PROVIDE STRIP LIGHTING AND/OR TRIPOD-MOUNTED CONSTRUCTION LIGHT AS REQUIRED FOR TEMPORARY LIGHTING.
3. PROVIDE POWER PACK TO POWER/CONTROL LUMINAIRES AS INDICATED; LOCATE POWER PACKS WITHIN 2' OF CEILING. PROVIDE ALL CABLING, ENCLOSURES, AND MOUNTING HARDWARE PER MANUFACTURER'S REQUIREMENTS.
4. ALL LUMINAIRES WITH 'E' SUFFIX SHALL BE PROVIDED WITH EMERGENCY POWER VIA EMERGENCY LIGHTING UL-924 TRANSFER SWITCH CIRCUITED TO LIFE SAFETY PANEL "LE-E" CIRCUIT 41. REFERENCE LUMINAIRE SCHEDULE ON SHEET EP701 FOR ADDITIONAL INFORMATION.

KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032
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	Building Number: 001
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009	Drawing Number: 001EL403a
Issue Date: 01/16/2026 / Checked: NVP/DCW / Drawn: RTS/KDB	

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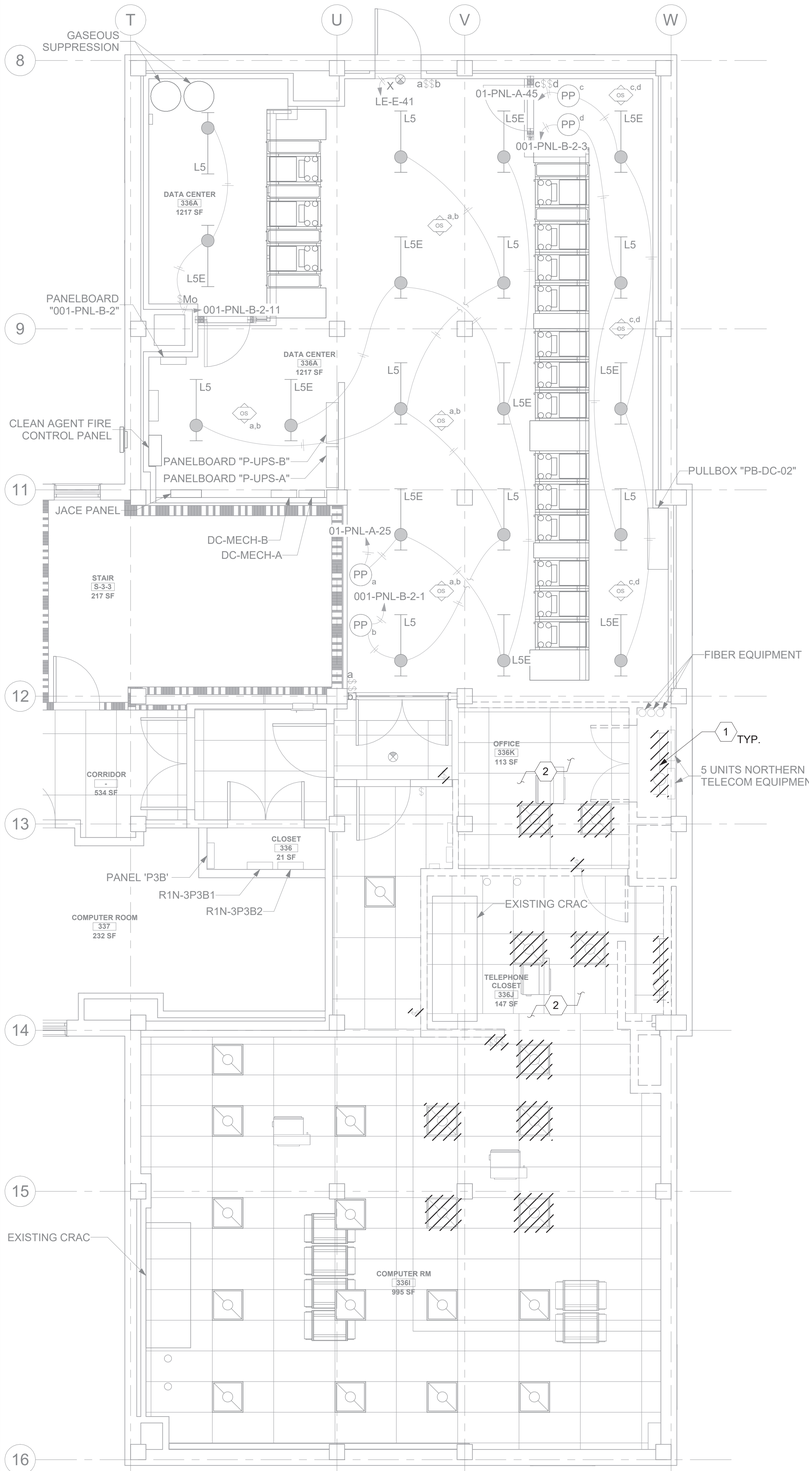
Autodesk Docs://405-22-700 VA VT White River Junction EHRM IU/VAWR_01_EL_SDB.rvt



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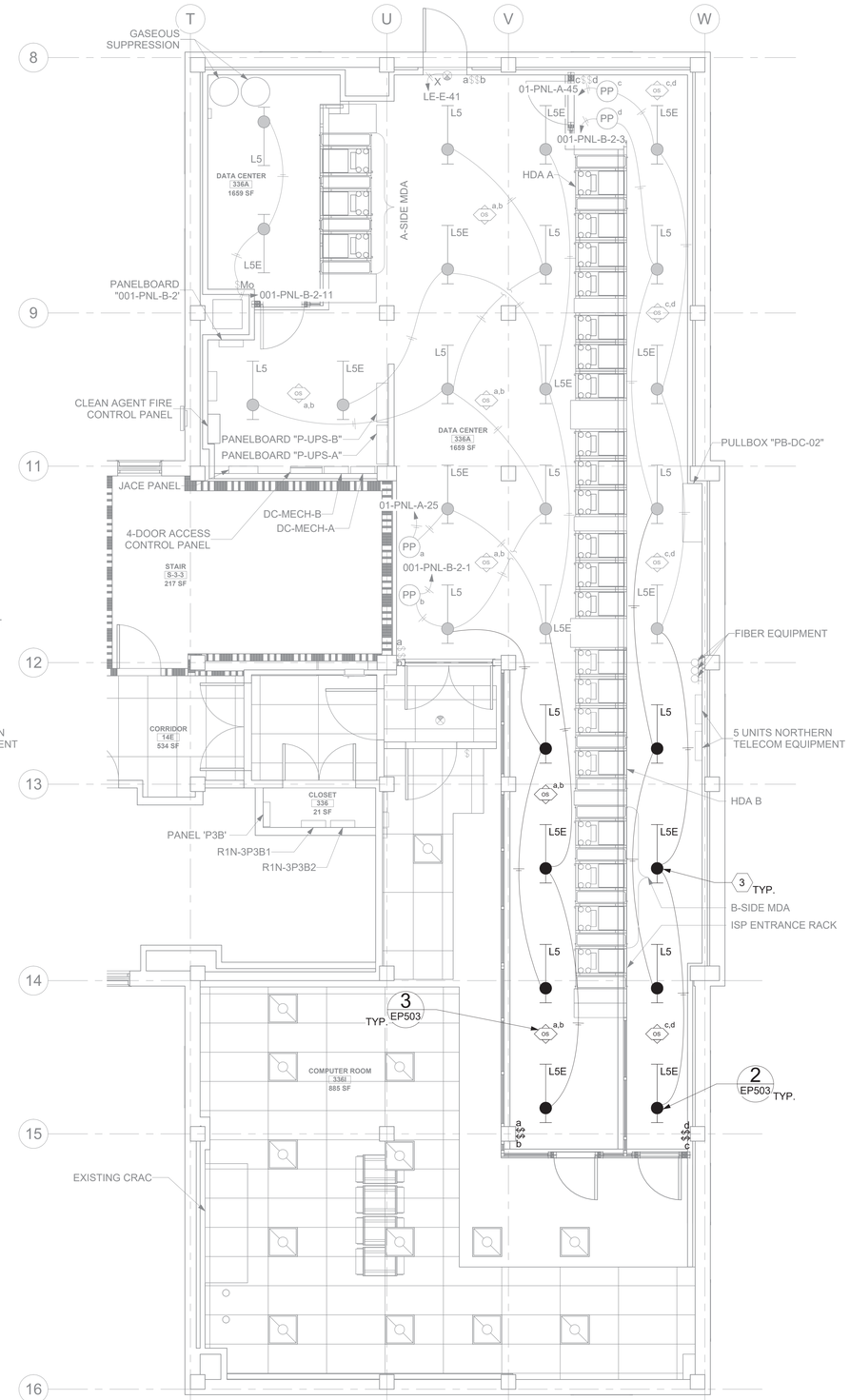

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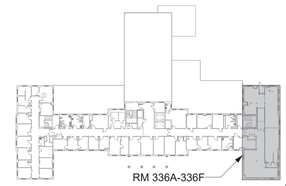

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CONSULTANT/ DISCIPLINE

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ARCHITECT/ ENGINEER OF RECORD

A/E:
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SPEESDESIGNBUILD

STAMP

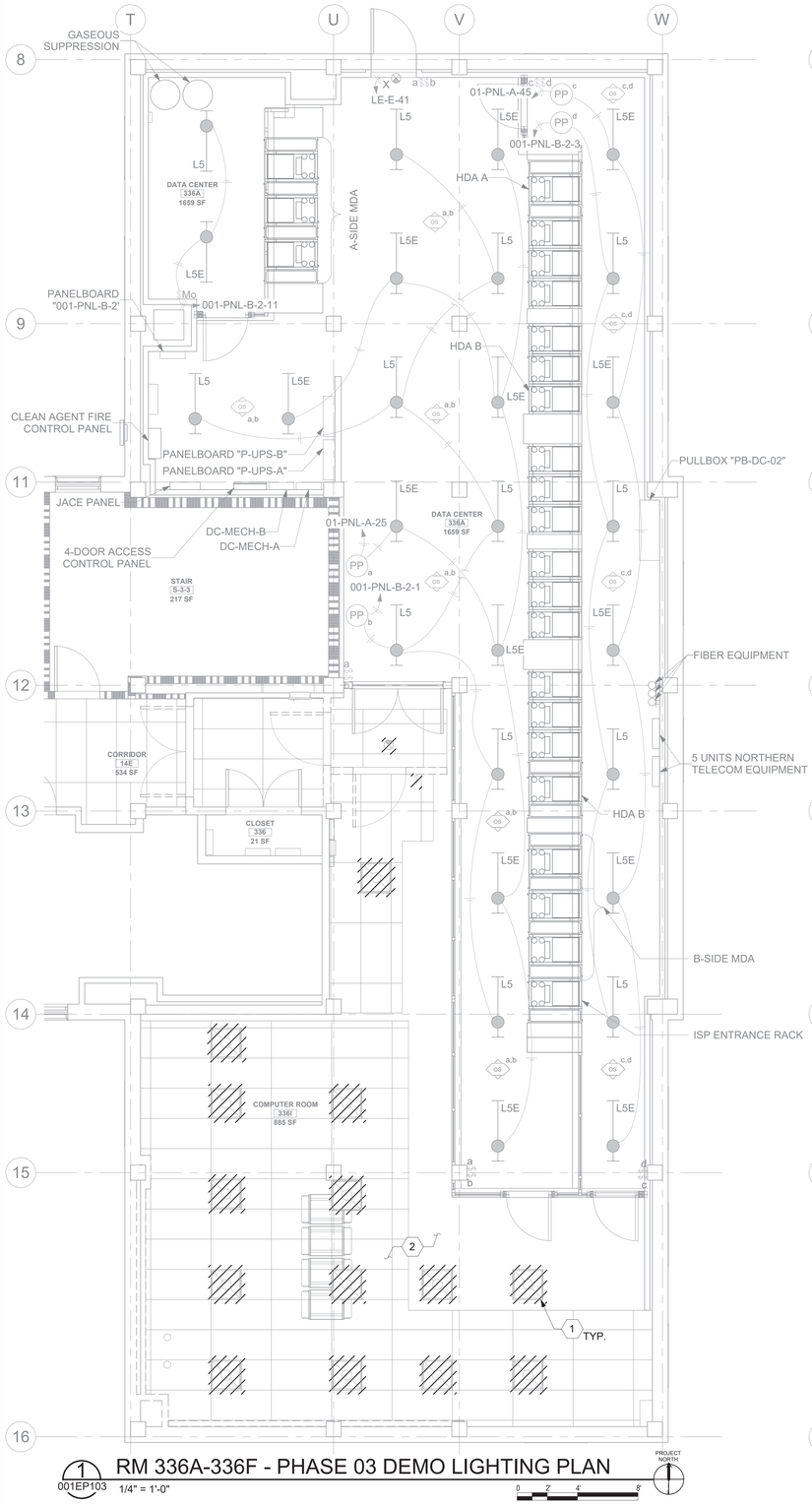
LOUIS R. LITZAU — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 001 - LEVEL 03 - ENLARGED PHASE 02 LIGHTING PLANS	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER	Project Number: 405-22-700
	Building Number: 001
Location: VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009	Drawing Number: 001EL403b
Issue Date: 01/16/2026 / Checked: NVP/DCW / Drawn: RTS/KDB	



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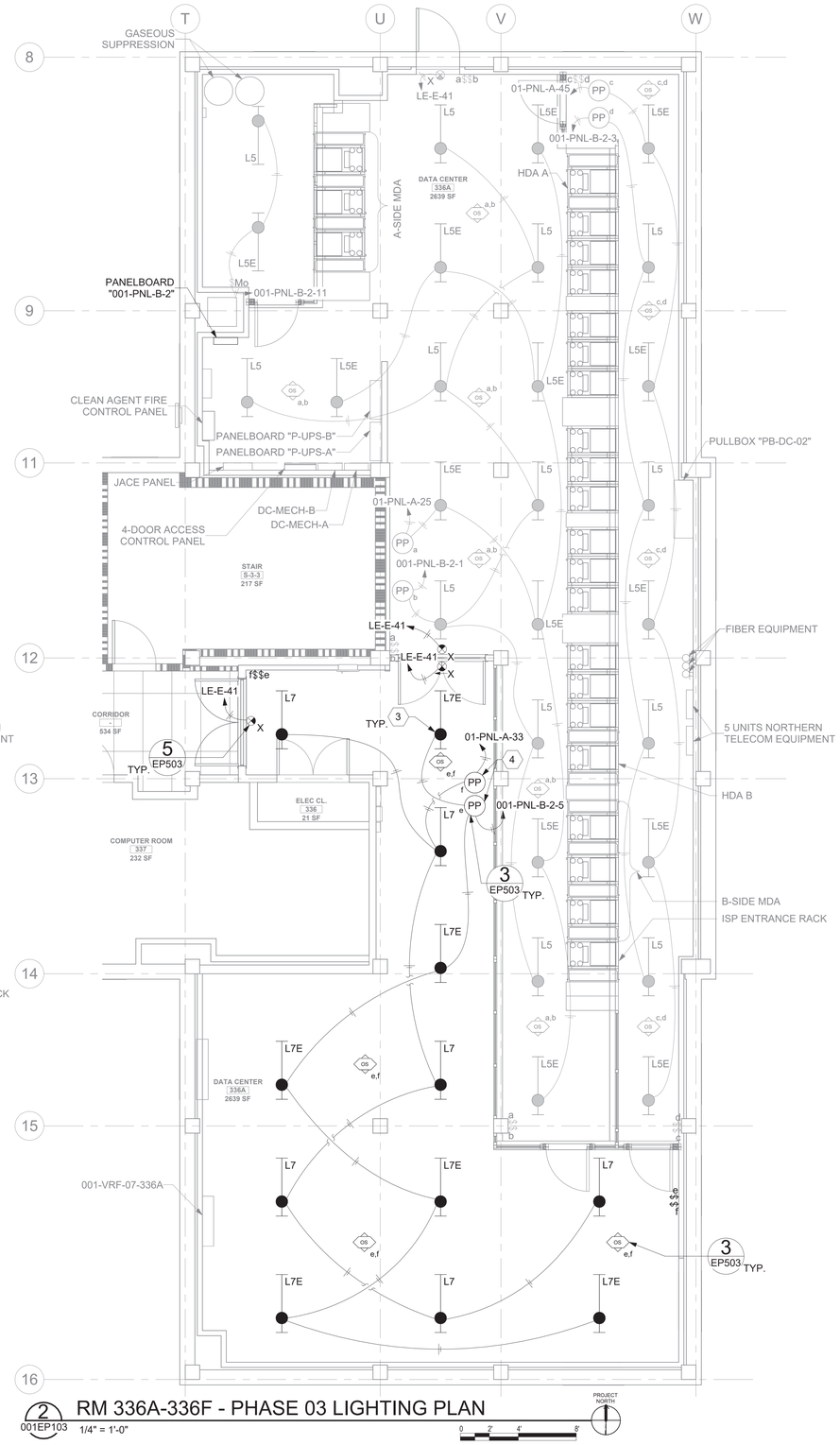

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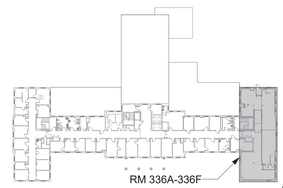

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Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

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23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

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LOUIS R. LITZAU — STATE OF WASHINGTON — 55081 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 001 - LEVEL 03 - ENLARGED PHASE 03 LIGHTING PLANS	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER			Project Number: 405-22-700
			Building Number: 001
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009			Drawing Number: 001EL403c
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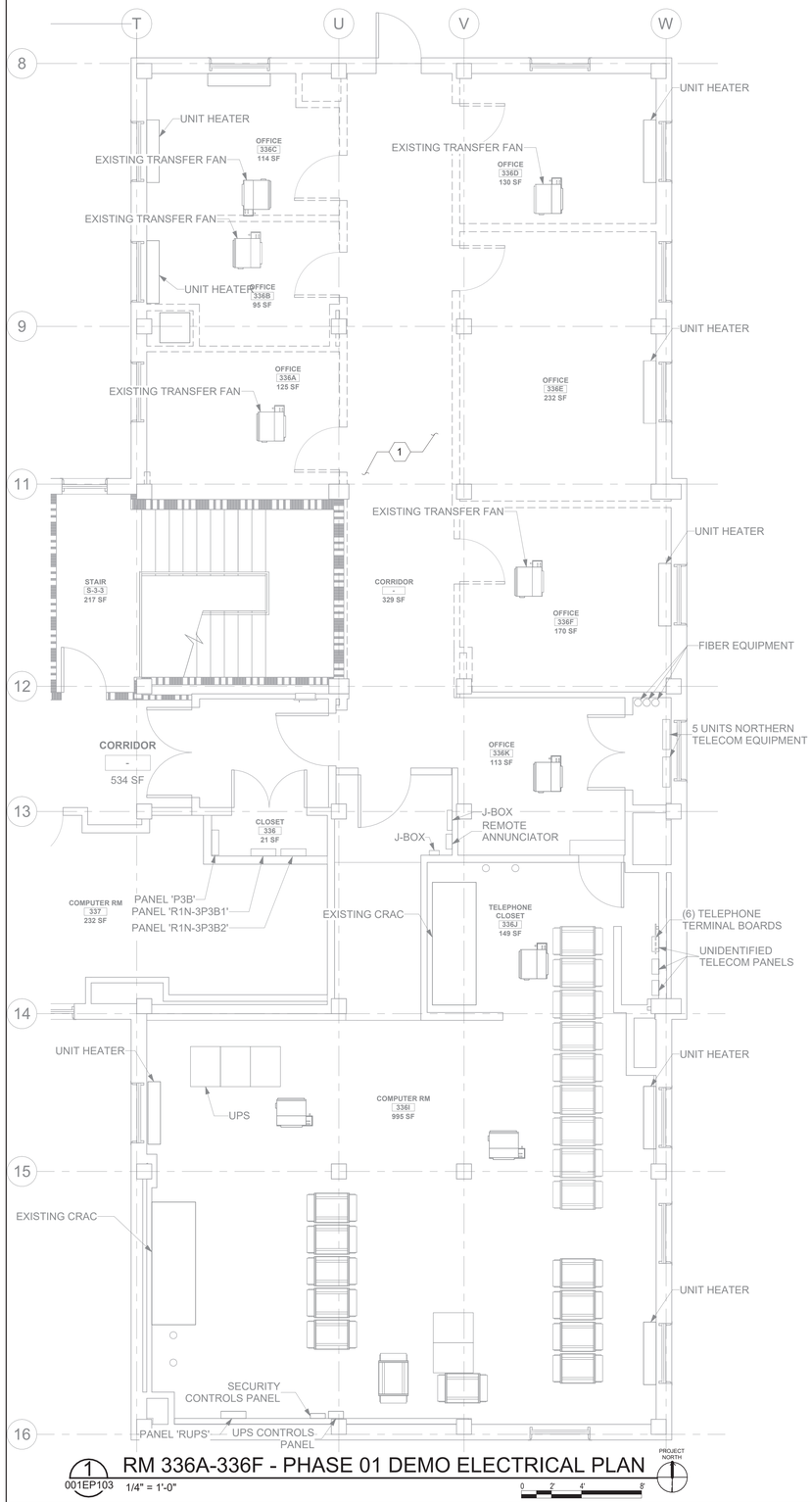

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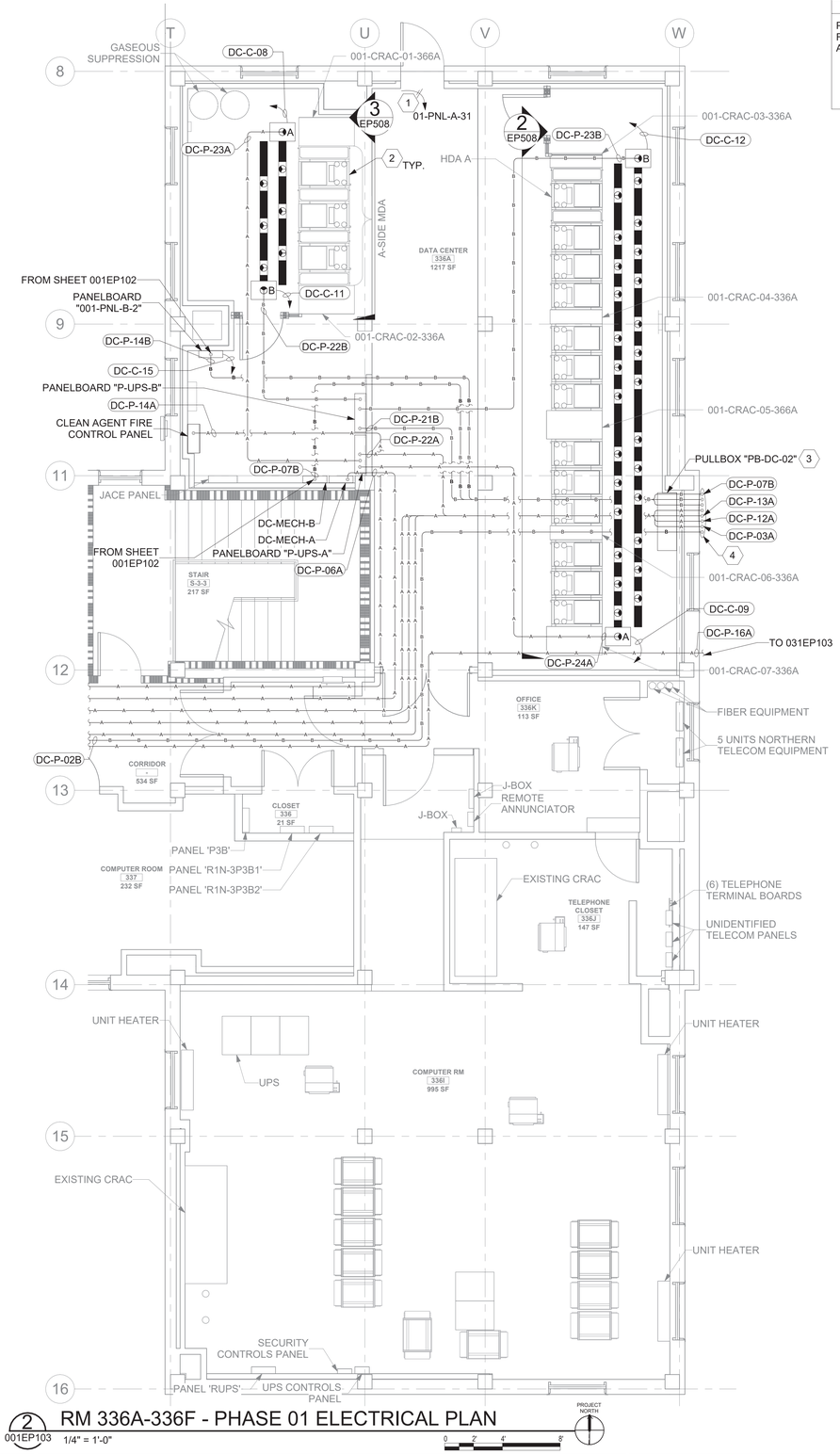

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LEGEND
PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.
A — A 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
B — B 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
A - - - A 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
B - - - B 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

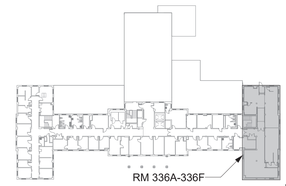
GENERAL NOTES

1. DEMOLITION PLANS/NOTES ARE BASED ON SITE INVESTIGATIONS AND RECORD DRAWINGS. IF DISCREPANCIES ARE FOUND THAT MAY IMPACT WORK, PROMPTLY NOTIFY VA AND ENGINEER OF SAID DISCREPANCY.
2. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL DEMOLISH ALL ELECTRICAL EQUIPMENT, CONDUCTORS AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION OF MILLWORK, UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL DISPOSE OF THE REMOVED DEVICES. DISPOSAL OF DEVICES SHALL COMPLY WITH ALL APPROPRIATE CODES.
5. PROTECT ALL EXISTING WORK FROM DAMAGE DURING CONSTRUCTION. ANY DAMAGED MATERIALS, SYSTEMS, COMPONENTS, FINISHES AND THE LIKE, SHALL BE REPAIRED OR REPLACED AT THE EXPENSE OF THE CONTRACTOR TO THE ACCEPTANCE OF THE OWNER.
6. FIELD VERIFY ALL RACEWAY DEMOLITION AND INSTALLATIONS PRIOR TO PERFORMING WORK.
7. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BE INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFORM WITH VA STANDARDS.
8. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH EXISTING FIRE RATING OR NEW FIRE RATING, IF REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
9. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION. FOR TR ROOM PANEL SCHEDULES REFERENCE THE TYPICAL A AND B POWER SCHEDULE CLASSIFICATION FOR ADDITIONAL INFORMATION.
10. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
11. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULL BOX PLACEMENT AND SIZING BY CONTRACTOR. COORDINATE PULL BOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.
12. ALL RECEPTACLES AND SWITCHES SHALL BE PROVIDED WITH PANEL AND CIRCUIT LABELING LOCATED DIRECTLY ON THE WALL PLATE; IE."P4-1", PANEL "4", CIRCUIT "1". REFERENCE WIRING DEVICE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEY NOTES

1. PLAN INCLUDED FOR REFERENCE ONLY.
2. CONTRACTOR SHALL FASTEN EXCESS POWER CORDS TO FRAME OF RACK UTILIZING KELLUM GRIP WITH EYE HOOK BOLT ATTACHED TO STRUCTURE. ENSURE NO OBSTRUCTION TO CABINET DOOR SWING OR AIRFLOW.
3. PROVIDE PULL BOX AND MOUNTING HARDWARE FOR CONDUCTOR PULLING MEANS. LABEL PULL BOX WITH EQUIPMENT NAME IT IS SERVING. COORDINATE FINAL PULL BOX LOCATIONS WITH EXISTING CONDITIONS AND EQUIPMENT AS REQUIRED.
4. CONDUIT ROUTED VERTICALLY ON EXTERIOR OF BUILDLING. REFERENCE SHEET 001EP102 FOR ADDITIONAL INFORMATION.

KEY PLAN



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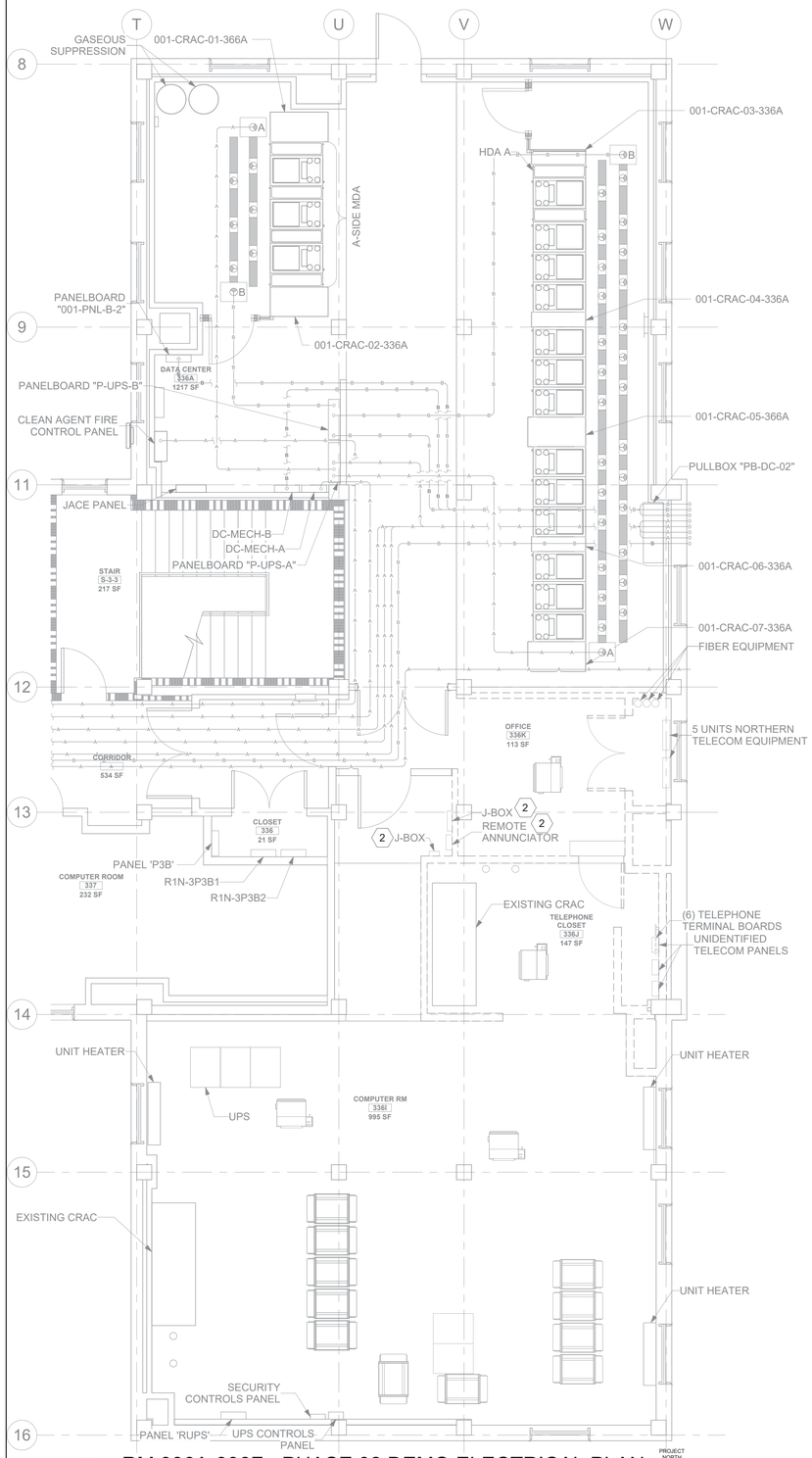

1 001EP103 RM 336A-336F - PHASE 02 DEMO ELECTRICAL PLAN

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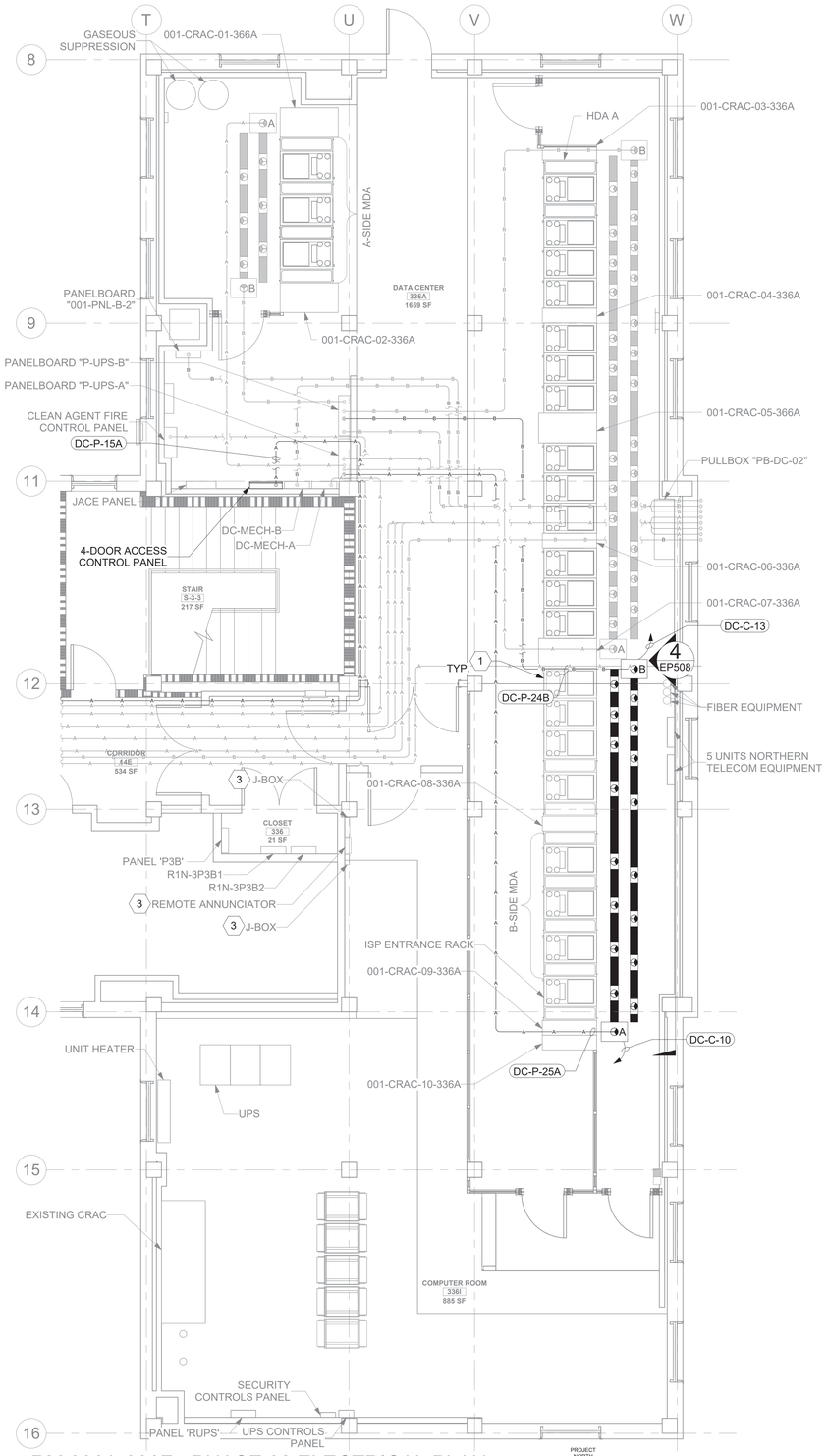

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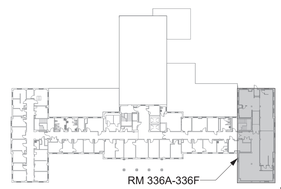
3. CONTRACTOR SHALL DEMOLISH ALL ELECTRICAL EQUIPMENT, CONDUCTORS AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION OF MILLWORK, UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL DISPOSE OF THE REMOVED DEVICES. DISPOSAL OF DEVICES SHALL COMPLY WITH ALL APPROPRIATE CODES.
5. PROTECT ALL EXISTING WORK FROM DAMAGE DURING CONSTRUCTION. ANY DAMAGED MATERIALS, SYSTEMS, COMPONENTS, FINISHES AND THE LIKE, SHALL BE REPAIRED OR REPLACED AT THE EXPENSE OF THE CONTRACTOR TO THE ACCEPTANCE OF THE OWNER.
6. FIELD VERIFY ALL RACEWAY DEMOLITION AND INSTALLATIONS PRIOR TO PERFORMING WORK.
7. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BE INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFORM WITH VA STANDARDS.
8. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH EXISTING FIRE RATING OR NEW FIRE RATING, IF REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
9. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION. FOR TR ROOM PANEL SCHEDULES REFERENCE THE TYPICAL A AND B POWER SCHEDULE CLASSIFICATION FOR ADDITIONAL INFORMATION.
10. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
11. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULL BOX PLACEMENT AND SIZING BY CONTRACTOR. COORDINATE PULL BOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.
12. ALL RECEPTACLES AND SWITCHES SHALL BE PROVIDED WITH PANEL AND CIRCUIT LABELING LOCATED DIRECTLY ON THE WALL PLATE; IE."P4-1". PANEL "4", CIRCUIT "1". REFERENCE WIRING DEVICE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEY NOTES

1. CONTRACTOR SHALL FASTEN EXCESS POWER CORDS TO FRAME OF THE RACK UTILIZING KELLUM GRIP WITH EYE HOOK BOLT ATTACHED TO STRUCTURE. ENSURE NO OBSTRUCTION TO CABINET DOOR SWING OR AIRFLOW.
2. EQUIPMENT SHALL BE RELOCATED. PRESERVE AND PROTECT EXISTING BRANCH CIRCUIT FOR RE-TERMINATION.
3. EQUIPMENT. RE-TERMINATE TO EXISTING BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.

KEY PLAN



SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
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SPEESDESIGNBUILD

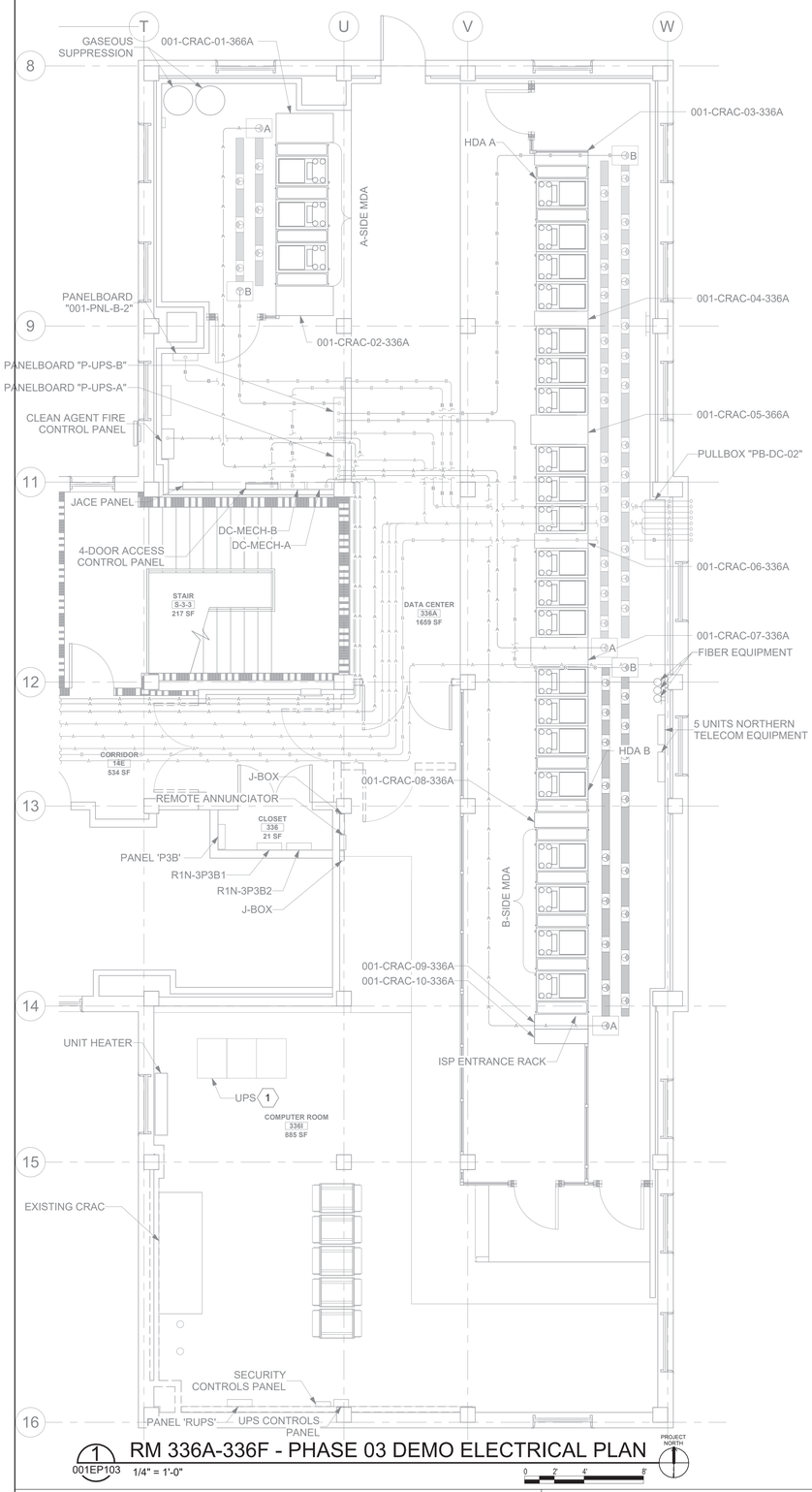
STAMP

LOUIS R. LITZSO STATE OF WASHINGTON 55681 1-16-26 REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

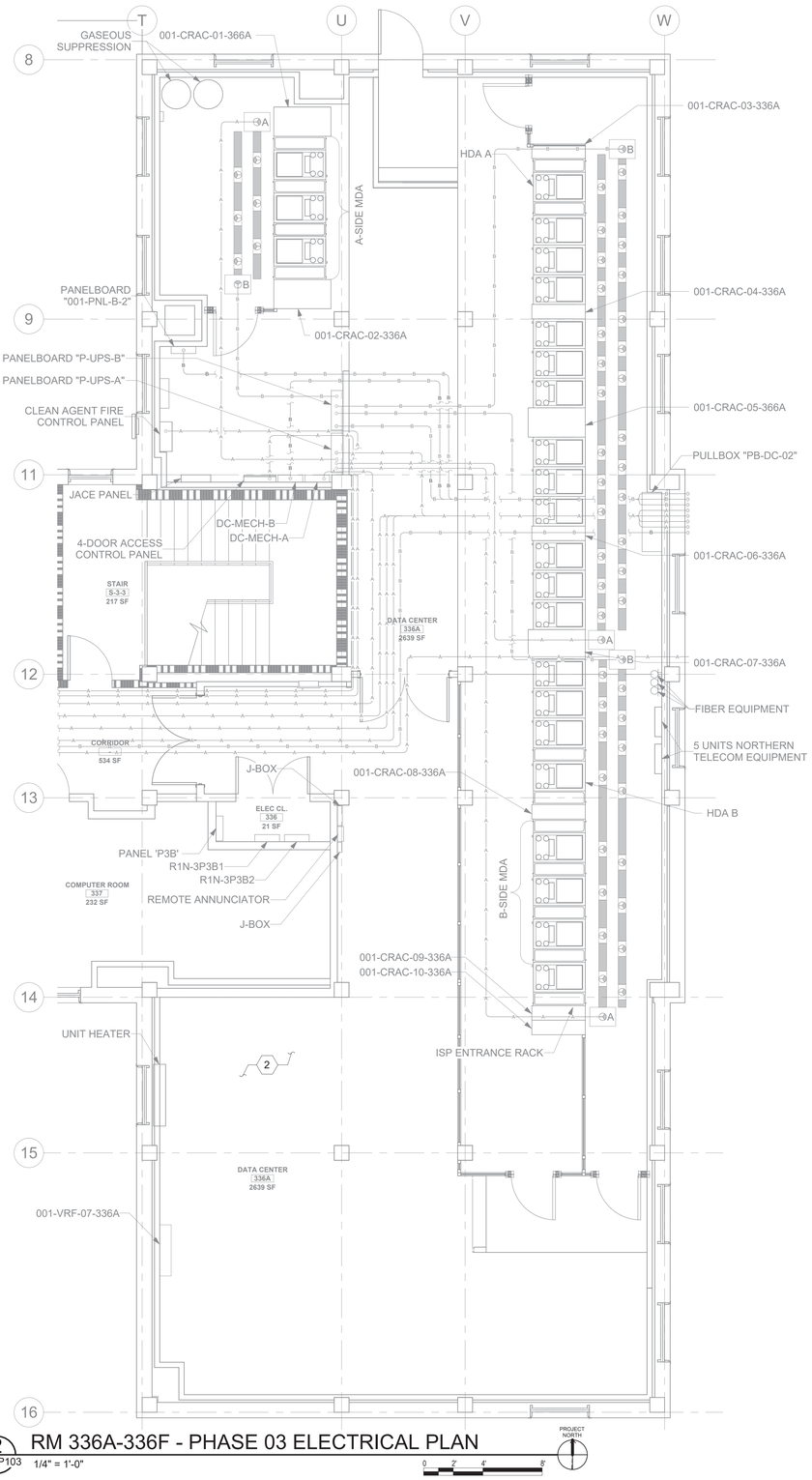
VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 001 - LEVEL 03 - ENLARGED PHASE 02 POWER PLANS	Phase: 100% CONSTRUCTION DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER	Project Number: 405-22-700
			Building Number: 001
Approved:	FULLY SPRINKLERED	Location: VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009	Drawing Number: 001EP403b
		Issue Date: 01/16/2026 / Checked: NVP/DCW / Drawn: RTS/KDB	



1 001EP103 RM 336A-336F - PHASE 03 DEMO ELECTRICAL PLAN

1/4" = 1'-0"



2 001EP103 RM 336A-336F - PHASE 03 ELECTRICAL PLAN

1/4" = 1'-0"

LEGEND	
PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.	
A A	'A' SIDE POWER, CONCEALED WHERE POSSIBLE
B B	'B' SIDE POWER, CONCEALED WHERE POSSIBLE
A A	'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
B B	'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

GENERAL NOTES

1. DEMOLITION PLANS/NOTES ARE BASED ON SITE INVESTIGATIONS AND RECORD DRAWINGS. IF DISCREPANCIES ARE FOUND THAT MAY IMPACT WORK, PROMPTLY NOTIFY VA AND ENGINEER OF SAID DISCREPANCY.
2. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL DEMOLISH ALL ELECTRICAL EQUIPMENT, CONDUCTORS AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION OF MILLWORK, UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL DISPOSE OF THE REMOVED DEVICES. DISPOSAL OF DEVICES SHALL COMPLY WITH ALL APPROPRIATE CODES.
5. PROTECT ALL EXISTING WORK FROM DAMAGE DURING CONSTRUCTION. ANY DAMAGED MATERIALS, SYSTEMS, COMPONENTS, FINISHES AND THE LIKE, SHALL BE REPAIRED OR REPLACED AT THE EXPENSE OF THE CONTRACTOR TO THE ACCEPTANCE OF THE OWNER.
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9. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION. FOR TR ROOM PANEL SCHEDULES REFERENCE THE TYPICAL A AND B POWER SCHEDULE CLASSIFICATION FOR ADDITIONAL INFORMATION.
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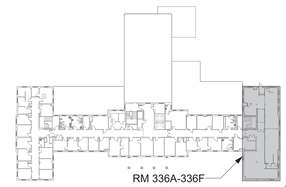
12. ALL RECEPTACLES AND SWITCHES SHALL BE PROVIDED WITH PANEL AND CIRCUIT LABELING LOCATED DIRECTLY ON THE WALL PLATE; IE:"P4-1", PANEL "4", CIRCUIT "1". REFERENCE WIRING DEVICE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEY NOTES

1. EQUIPMENT SHALL BE SALVAGED TO VA. ASSOCIATED CONDUIT AND WIRE SHALL BE DEMOLISHED BACK TO SOURCE.
2. PLAN INCLUDED FOR REFERENCE ONLY.

KEY PLAN



SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

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KENT, WA 98032

SDB SPEESDESIGNBUILD

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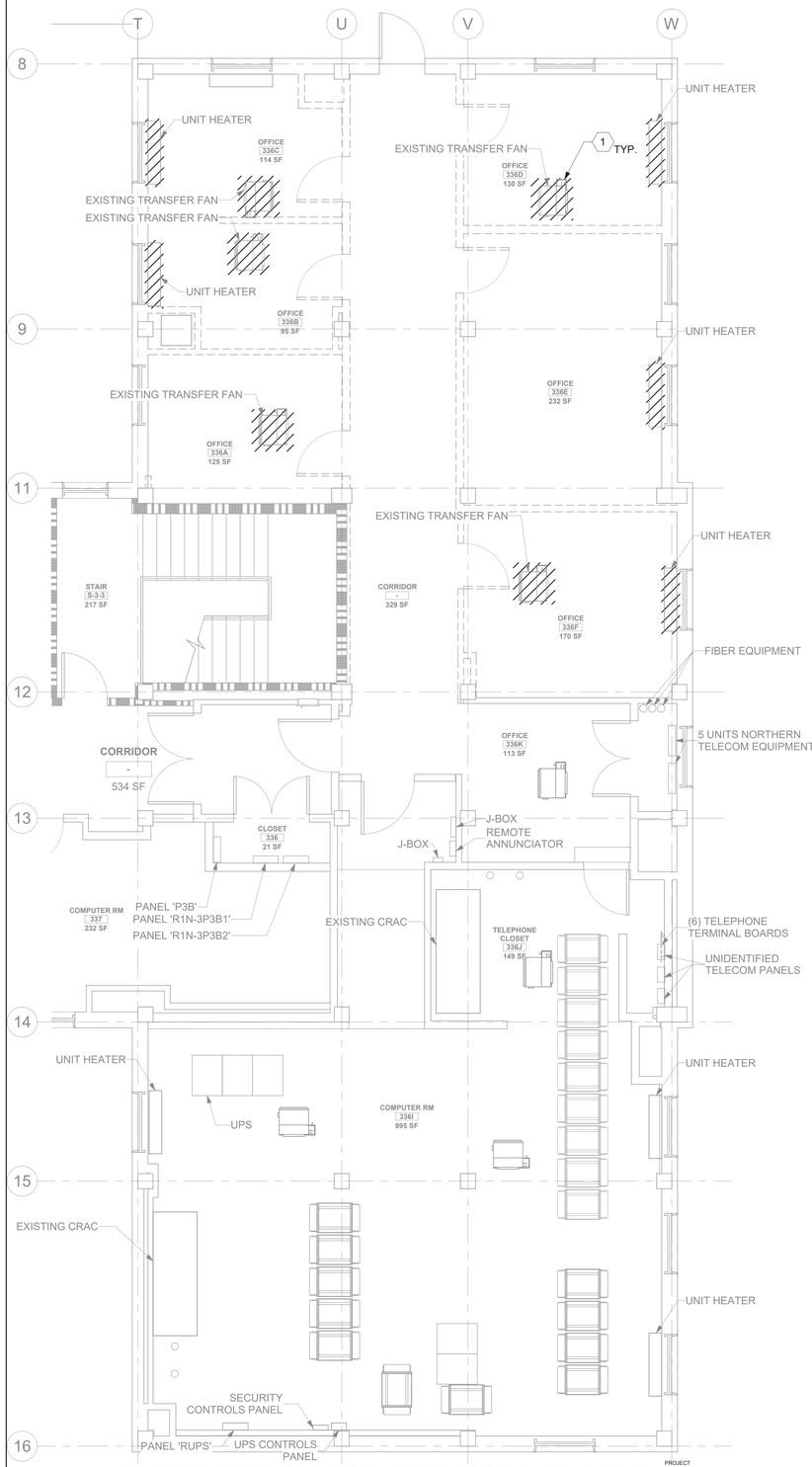
LOUIS R. LITZAU — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

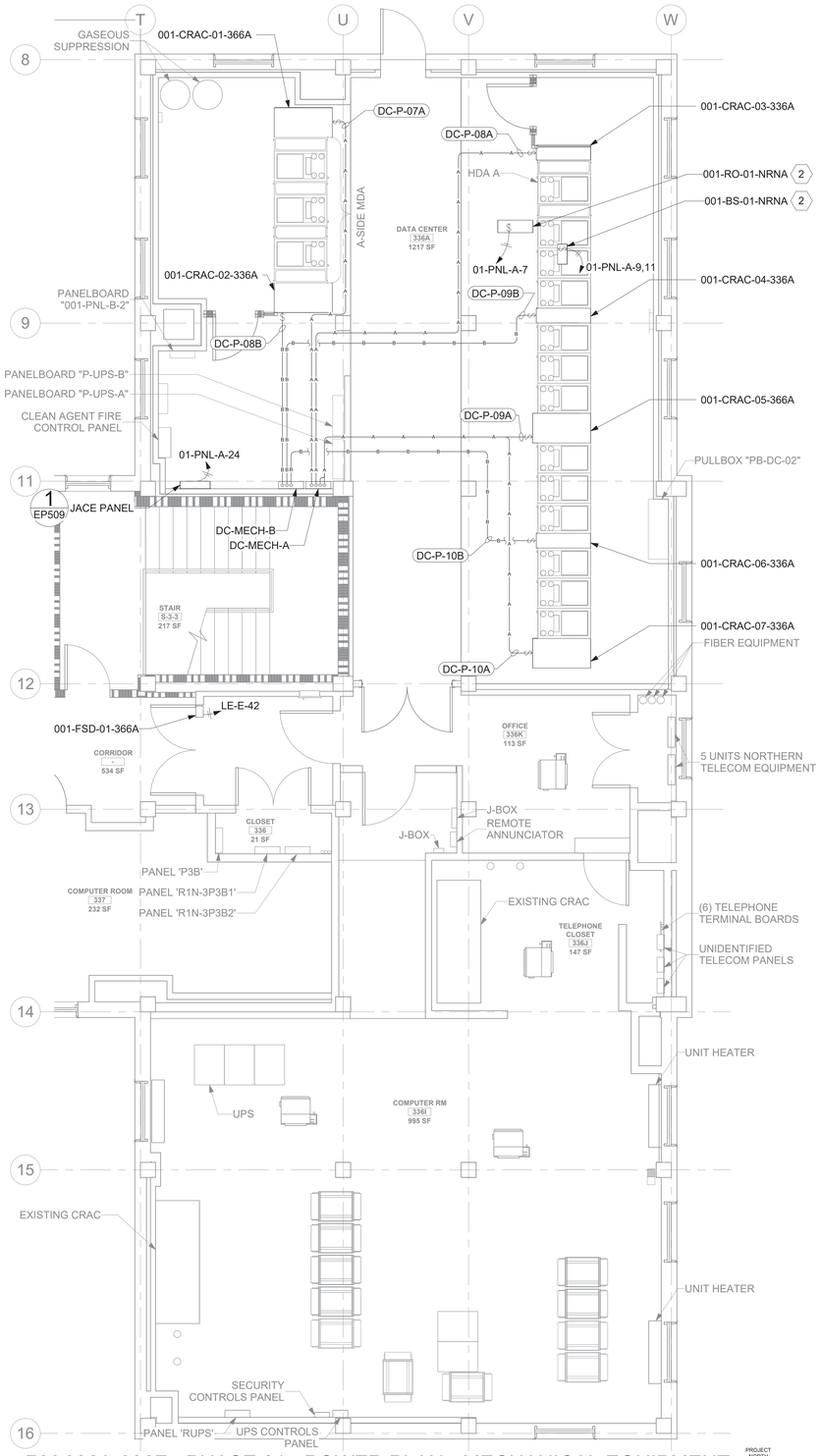
VA U.S. Department of Veterans Affairs

Drawing Title	BLDG 001 - LEVEL 03 - ENLARGED PHASE 03 POWER PLANS
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Project Number	405-22-700
Building Number	001
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Drawing Number	001EP403c
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB



1 001EP103 RM 336A-336F - PHASE 01 DEMO MECHANICAL PLAN

1/4" = 1'-0"



2 001EP103 RM 336A-336F - PHASE 01 - POWER PLAN - MECHANICAL EQUIPMENT

1/4" = 1'-0"

LEGEND
PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.
A — A — 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
B — B — 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
A - - - A - - - 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
B - - - B - - - 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

GENERAL NOTES

1. ALL ELECTRICAL WORK SHALL BE CLOSELY COORDINATED WITH THE CONTRACTORS PHASING OF THE PROJECT. COORDINATE ALL ELECTRICAL WORK WITH ALL OTHER TRADES.
2. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO SOURCE, UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL DEMOLISH ALL ELECTRICAL EQUIPMENT, CONDUCTORS AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION, UNLESS OTHERWISE NOTED.
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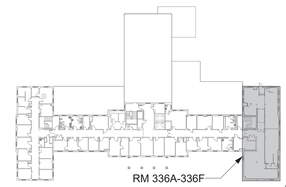
5. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH FIRE RATING. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
6. REFERENCE BUILDING ONE-LINE DIAGRAMS FOR PHASING INFORMATION.
7. NOT ALL CONDUIT AND WIRE MAY BE SHOWN FOR CLARITY. REFERENCE BUILDING 001 CONDUIT AND WIRE SCHEDULE FOR ADDITIONAL INFORMATION.
8. MAKE ALL CONNECTIONS TO EQUIPMENT PER MANUFACTURER'S REQUIREMENTS.

KEY NOTES

1. EXISTING EQUIPMENT SHALL BE DEMOLISHED. ASSOCIATED CONDUIT AND WIRE SHALL BE DEMOLISHED BACK TO SOURCE.
2. EQUIPMENT IS LOCATED IN ATTIC SPACE ABOVE. PROVIDE WITH MOTOR RATED SWITCH.

KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

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KENT, WA 98032

SPEESDESIGNBUILD

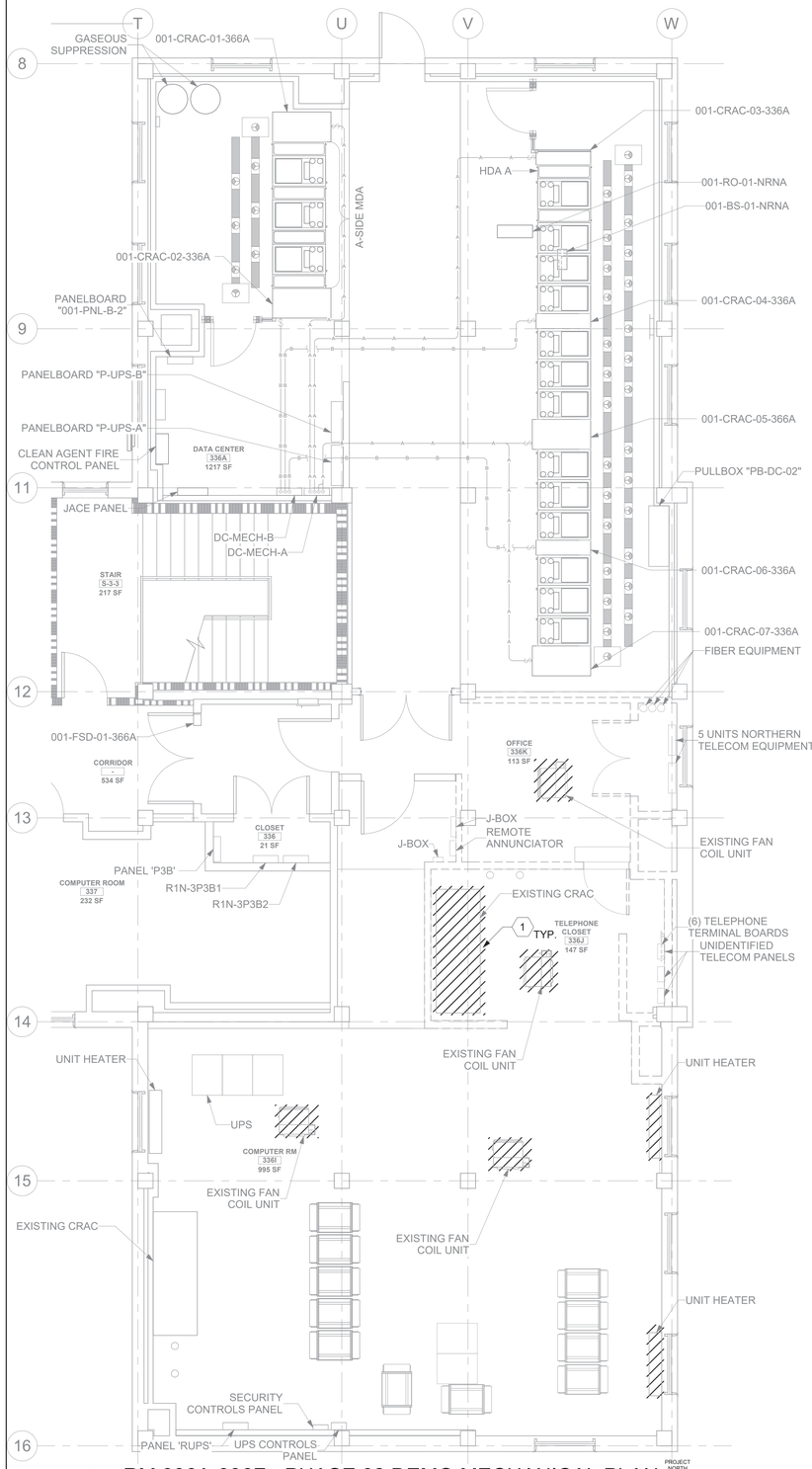
STAMP

LOUIS R. LITZAO — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

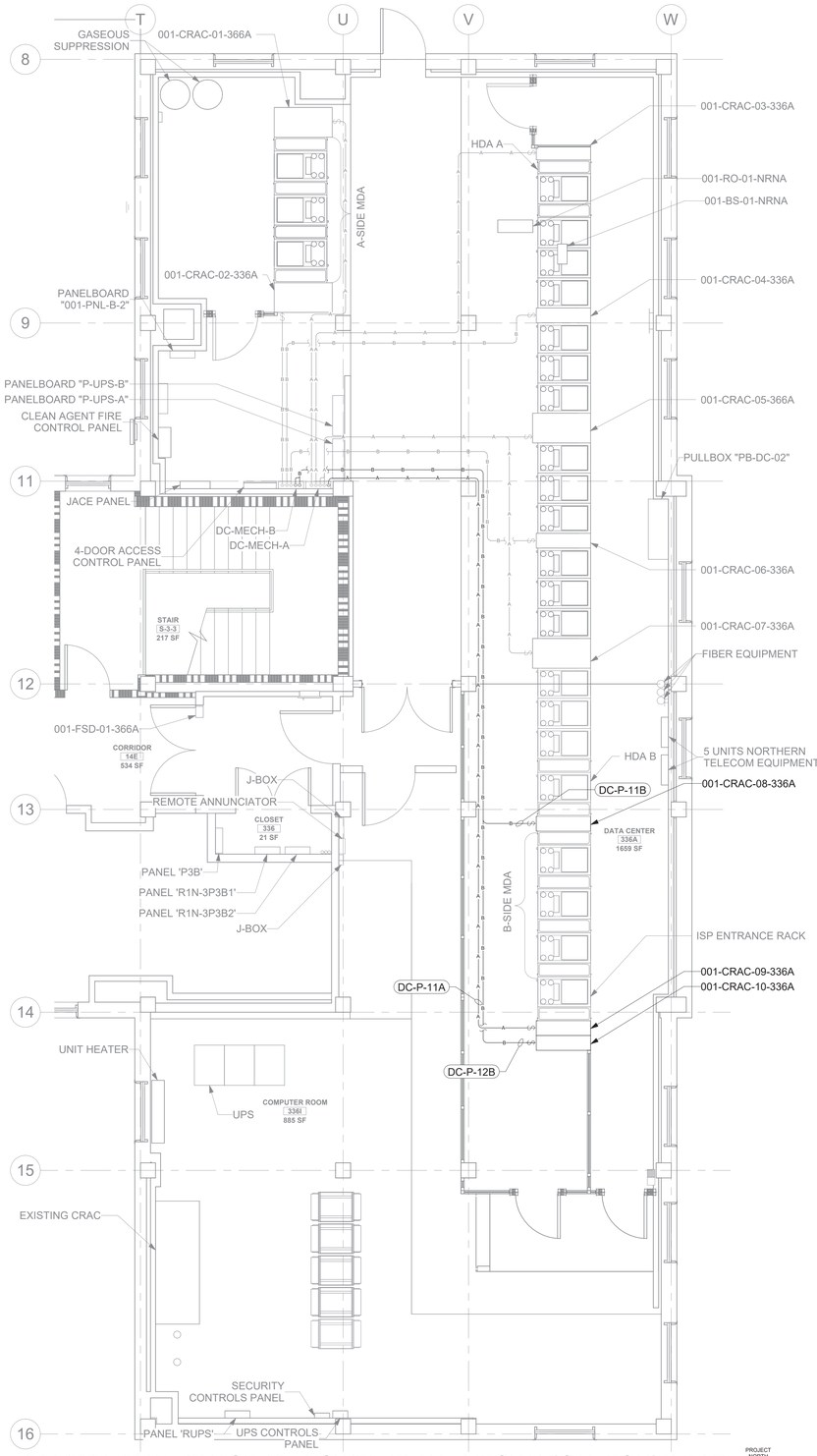
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 001 - LEVEL 03 - ENLARGED PHASE 01 MECHANICAL POWER PLANS	Phase: 100% CONSTRUCTION DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER	Project Number: 405-22-700
			Building Number: 001
Approved:	FULLY SPRINKLERED	Location: VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009	Drawing Number: 001EP403d
		Issue Date: 01/16/2026 / Checked: NVP/DCW / Drawn: RTS/KDB	



1 RM 336A-336F - PHASE 02 DEMO MECHANICAL PLAN
001EP103 1/4" = 1'-0"



2 RM 336A-336F - PHASE 02 - POWER PLAN - MECHANICAL EQUIPMENT
001EP103 1/4" = 1'-0"

LEGEND

PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.

- A — A — 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
- B — B — 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
- A - - - A - 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
- B - - - B - 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

GENERAL NOTES

1. ALL ELECTRICAL WORK SHALL BE CLOSELY COORDINATED WITH THE CONTRACTORS PHASING OF THE PROJECT. COORDINATE ALL ELECTRICAL WORK WITH ALL OTHER TRADES.
2. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO SOURCE, UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL DEMOLISH ALL ELECTRICAL EQUIPMENT, CONDUCTORS AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION, UNLESS OTHERWISE NOTED.
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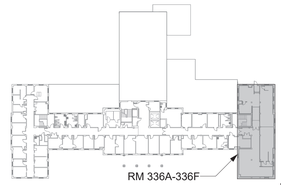
5. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH FIRE RATING. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
6. REFERENCE BUILDING ONE-LINE DIAGRAMS FOR PHASING INFORMATION.
7. NOT ALL CONDUIT AND WIRE MAY BE SHOWN FOR CLARITY. REFERENCE BUILDING 001 CONDUIT AND WIRE SCHEDULE FOR ADDITIONAL INFORMATION.
8. MAKE ALL CONNECTIONS TO EQUIPMENT PER MANUFACTURER'S REQUIREMENTS.

KEY NOTES

1 EXISTING EQUIPMENT SHALL BE DEMOLISHED. ASSOCIATED CONDUIT AND WIRE SHALL BE DEMOLISHED BACK TO SOURCE.

KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

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SPEESDESIGNBUILD

STAMP

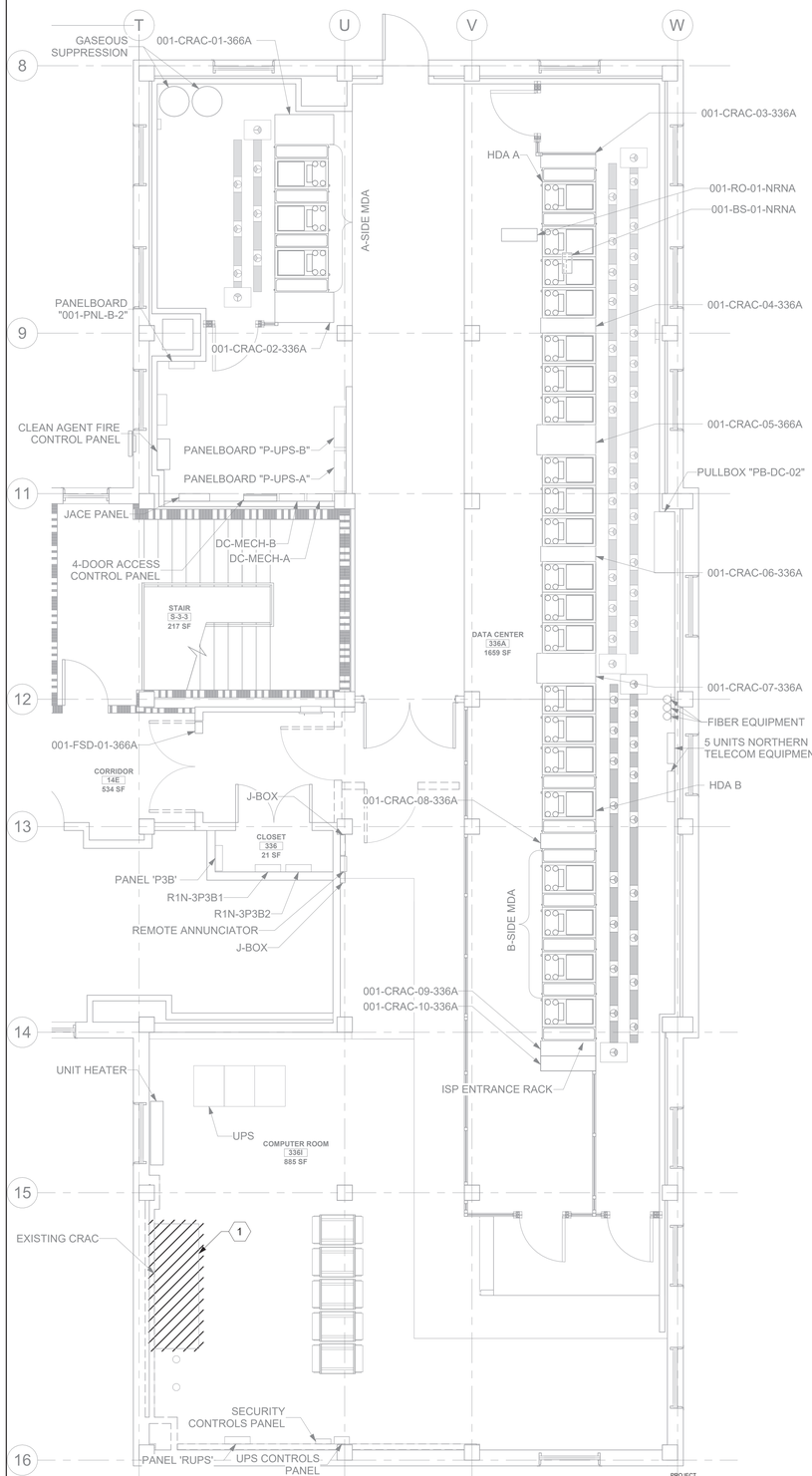
LOUIS R. LITZAO — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 001 - LEVEL 03 - ENLARGED PHASE 02 MECHANICAL POWER PLANS	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

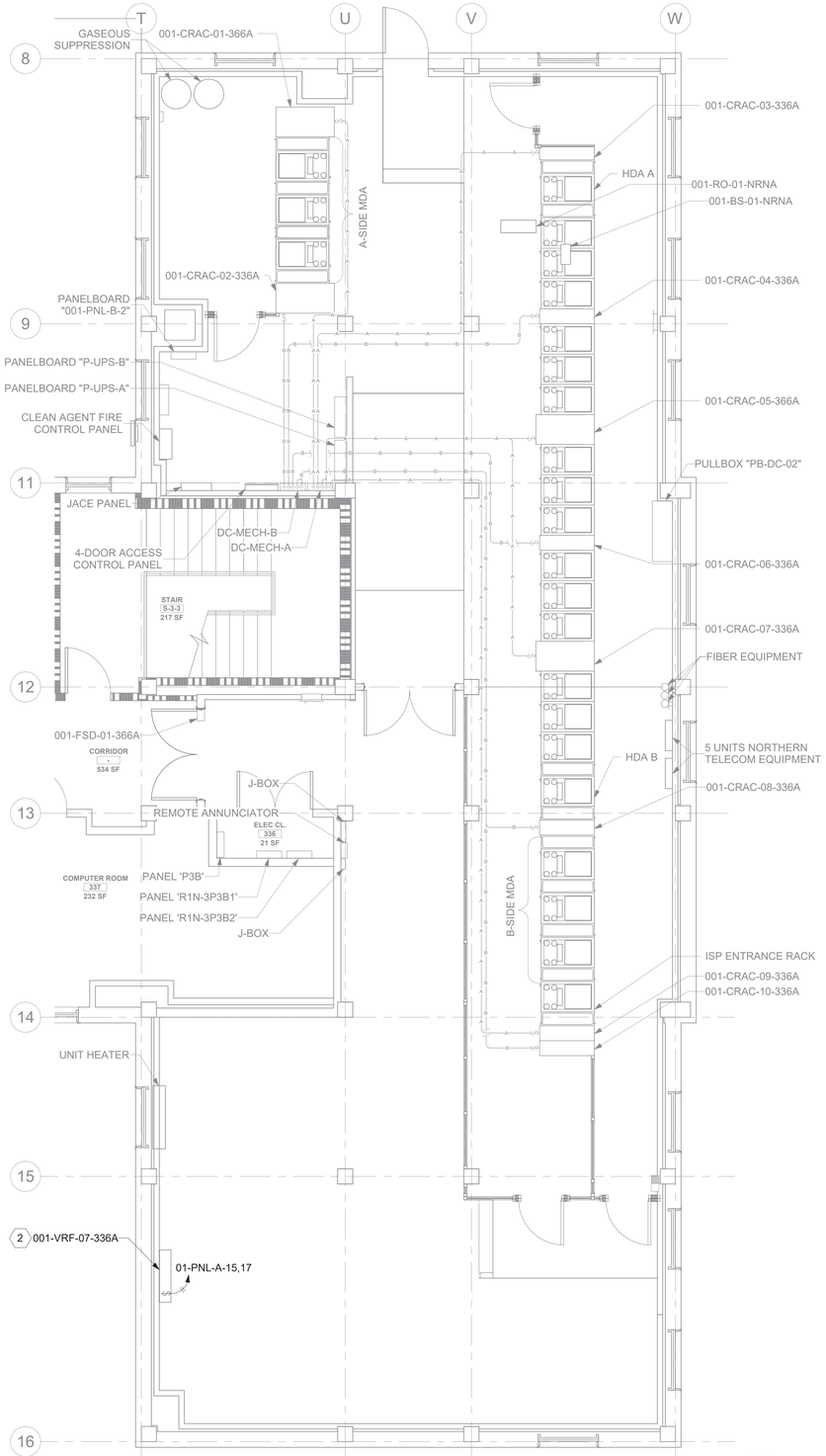
Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER			Project Number: 405-22-700
			Building Number: 001
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009			Drawing Number: 001EP403e
Issue Date: 01/16/2026	Checked: NVP/DCW	Drawn: RTS/KDB	



1 001EP103 RM 336A-336F - PHASE 03 DEMO MECHANICAL PLAN

1/4" = 1'-0"

PROJECT NORTH



2 001EP103 RM 336A-336F - PHASE 03 - POWER PLAN - MECHANICAL EQUIPMENT

1/4" = 1'-0"

PROJECT NORTH

LEGEND	
PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.	
A A	'A' SIDE POWER, CONCEALED WHERE POSSIBLE
B B	'B' SIDE POWER, CONCEALED WHERE POSSIBLE
A A	'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
B B	'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

GENERAL NOTES

1. ALL ELECTRICAL WORK SHALL BE CLOSELY COORDINATED WITH THE CONTRACTORS PHASING OF THE PROJECT. COORDINATE ALL ELECTRICAL WORK WITH ALL OTHER TRADES.
2. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO SOURCE, UNLESS OTHERWISE NOTED.
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5. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH FIRE RATING. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
6. REFERENCE BUILDING ONE-LINE DIAGRAMS FOR PHASING INFORMATION.
7. NOT ALL CONDUIT AND WIRE MAY BE SHOWN FOR CLARITY. REFERENCE BUILDING 001 CONDUIT AND WIRE SCHEDULE FOR ADDITIONAL INFORMATION.
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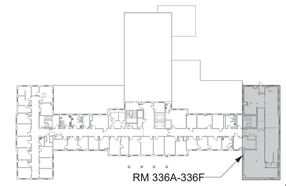
KEY NOTES

1. EXISTING EQUIPMENT SHALL BE DEMOLISHED. ASSOCIATED CONDUIT AND WIRE SHALL BE DEMOLISHED BACK TO SOURCE.
2. PROVIDE EQUIPMENT WITH MOTOR RATED SWITCH.

KEY PLAN



SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

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KENT, WA 98032

SPEESDESIGNBUILD

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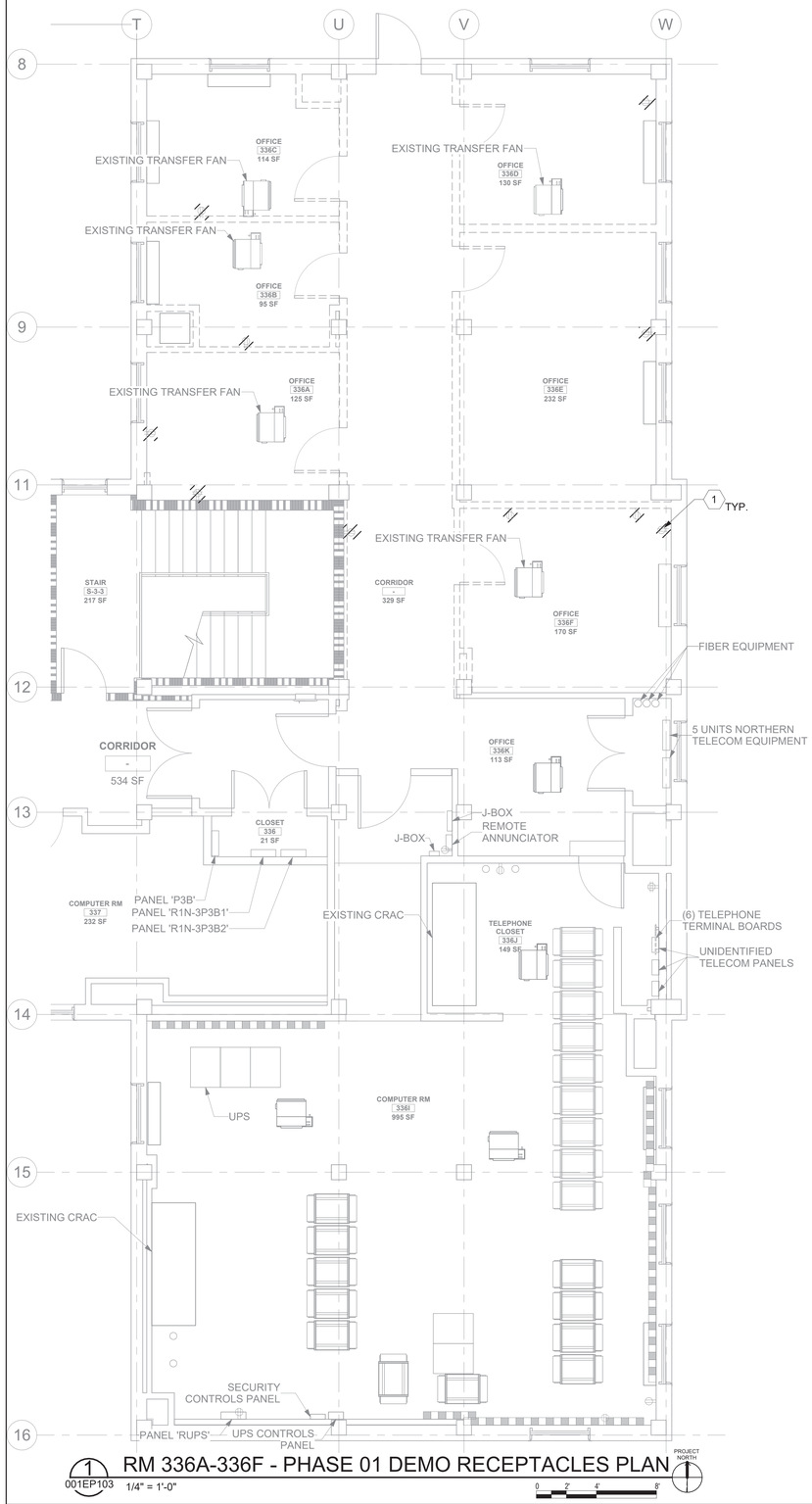
LOUIS R. LITZKO — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

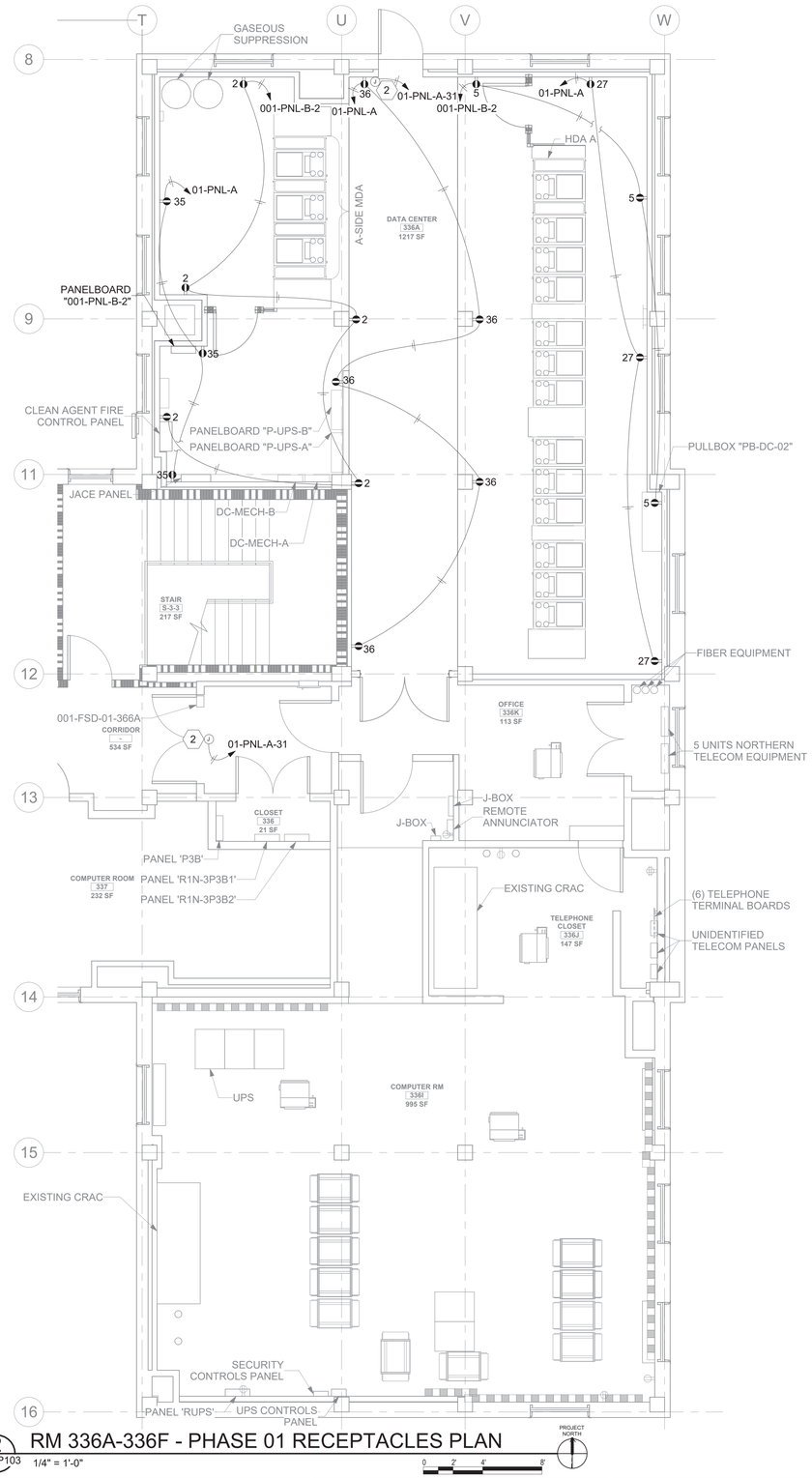
Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title	BLDG 001 - LEVEL 03 - ENLARGED PHASE 03 MECHANICAL POWER PLANS
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB
Project Number	405-22-700
Building Number	001
Drawing Number	001EP403f



1 RM 336A-336F - PHASE 01 DEMO RECEPTACLES PLAN
001EP103 1/4" = 1'-0"



2 RM 336A-336F - PHASE 01 RECEPTACLES PLAN
001EP103 1/4" = 1'-0"

LEGEND
PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.
A——A 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
B——B 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
A - - - A 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
B - - - B 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

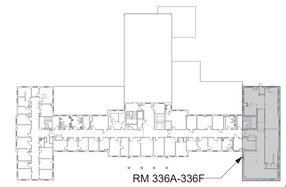
GENERAL NOTES

1. ALL ELECTRICAL WORK SHALL BE CLOSELY COORDINATED WITH THE CONTRACTORS PHASING OF THE PROJECT. COORDINATE ALL ELECTRICAL WORK WITH ALL OTHER TRADES.
2. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO SOURCE, UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL DEMOLISH ALL ELECTRICAL EQUIPMENT, CONDUCTORS AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION, UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BE INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFIRM WITH VA STANDARDS.
5. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH FIRE RATING. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
6. REFERENCE BUILDING ONE-LINE DIAGRAMS FOR PHASING INFORMATION.
7. MAKE ALL CONNECTIONS TO EQUIPMENT PER MANUFACTURER'S REQUIREMENTS.
8. ALL RECEPTACLES AND SWITCHES SHALL BE PROVIDED WITH PANEL AND CIRCUIT LABELING LOCATED DIRECTLY ON THE WALL PLATE, I.E., "P4-1", PANEL "4", CIRCUIT "1". REFERENCE WIRING DEVICE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEY NOTES

1. EXISTING EQUIPMENT SHALL BE DEMOLISHED. ASSOCIATED CONDUIT AND WIRE SHALL BE DEMOLISHED BACK TO SOURCE.
2. FURNISH AND INSTALL POWER SUPPLY WITHIN JUNCTION BOX AS INDICATED ABOVE ACCESSIBLE CEILINGS. VERIFY LOCATIONS WITH ARCHITECT. PROVIDE (1) POWER SUPPLY FOR EACH DOOR OPENING. PROVIDE 120V POWER TO ADEQUATELY SERVE DOORS WITH ELECTRIFIED DOOR HARDWARE AND MAKE CONNECTIONS AS REQUIRED. SEE REQUIREMENTS IN 08 71 00 - DOOR HARDWARE. COORDINATE WITH ARCHITECT AND DOOR INSTALLER.

KEY PLAN



SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

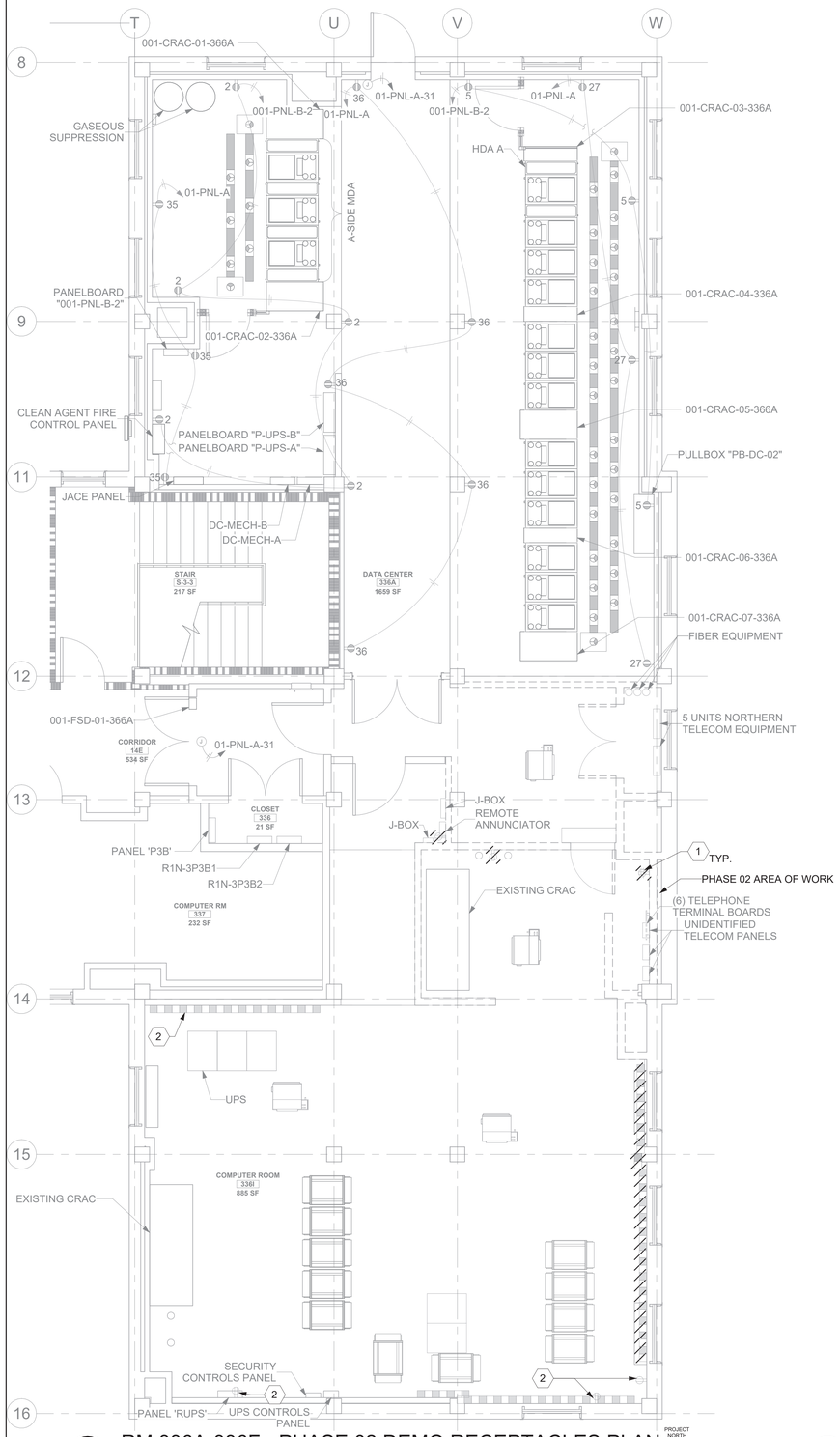
LOUIS R. LITZKA STATE OF WASHINGTON 55681 1-16-26 REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

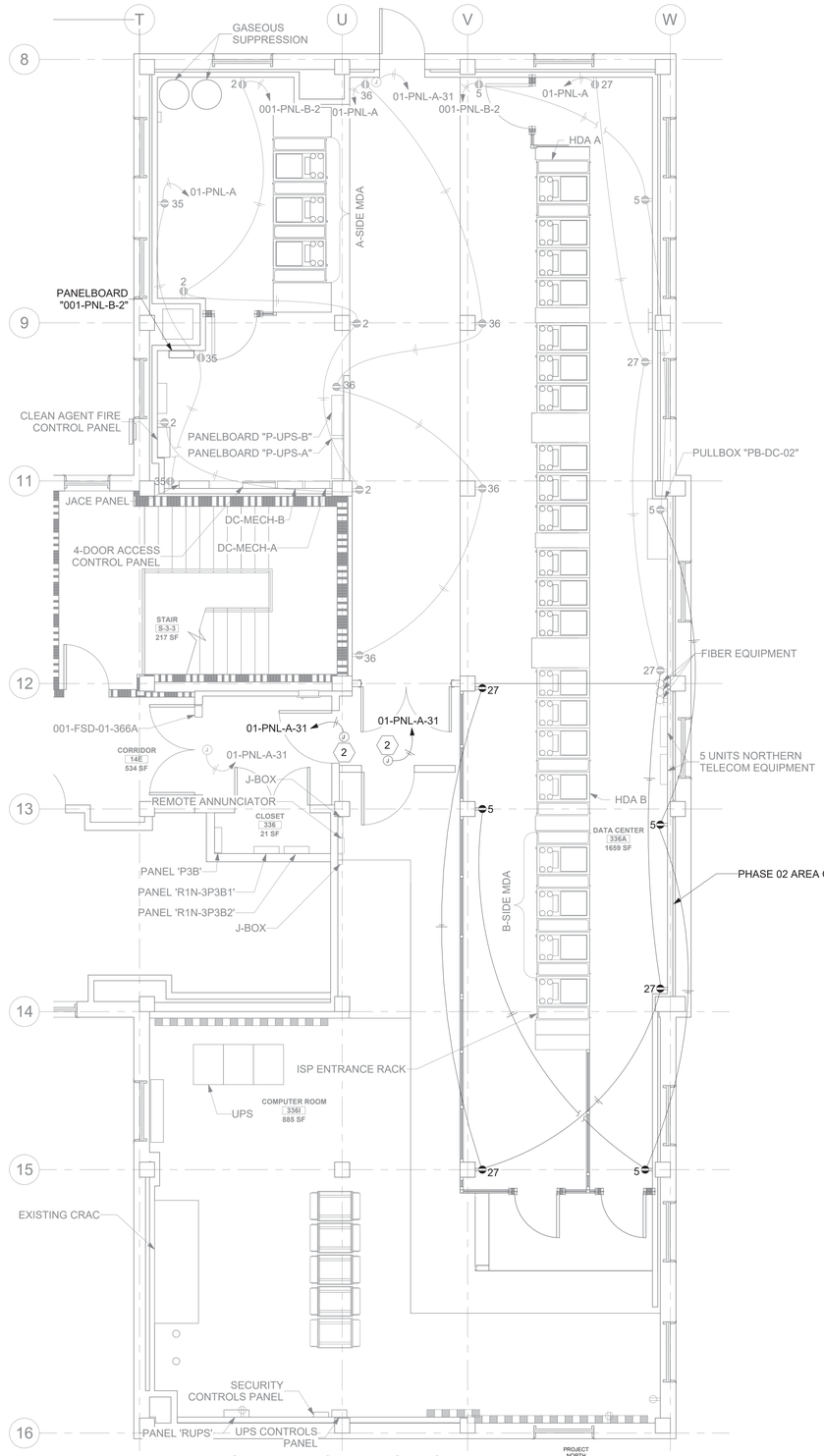
VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 001 - LEVEL 03 - ENLARGED PHASE 01 RECEPTACLE PLANS	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER	Project Number: 405-22-700
	Building Number: 001
Location: VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009	Drawing Number: 001EP403g
Issue Date: 01/16/2026 / Checked: NVP/DCW / Drawn: RTS/KDB	



1 RM 336A-336F - PHASE 02 DEMO RECEPTACLES PLAN
001EP103 1/4" = 1'-0"



2 RM 336A-336F - PHASE 02 RECEPTACLES PLAN
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LEGEND
PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.
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B——B 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
A - - - A 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
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GENERAL NOTES

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2. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO SOURCE, UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL DEMOLISH ALL ELECTRICAL EQUIPMENT, CONDUCTORS AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION, UNLESS OTHERWISE NOTED.
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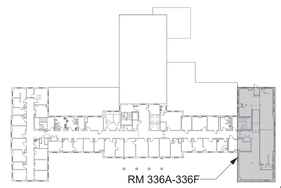
KEY NOTES

1. EXISTING EQUIPMENT SHALL BE DEMOLISHED. ASSOCIATED CONDUIT AND WIRE SHALL BE DEMOLISHED BACK TO SOURCE.
2. EXISTING RECEPTACLES SHALL REMAIN TO BE UTILIZED AS POWER SOURCES FOR TEMPORARY LIGHTING AS REQUIRED. REFERENCE LIGHTING PHASING SHEETS FOR ADDITIONAL INFORMATION.

KEY PLAN



SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

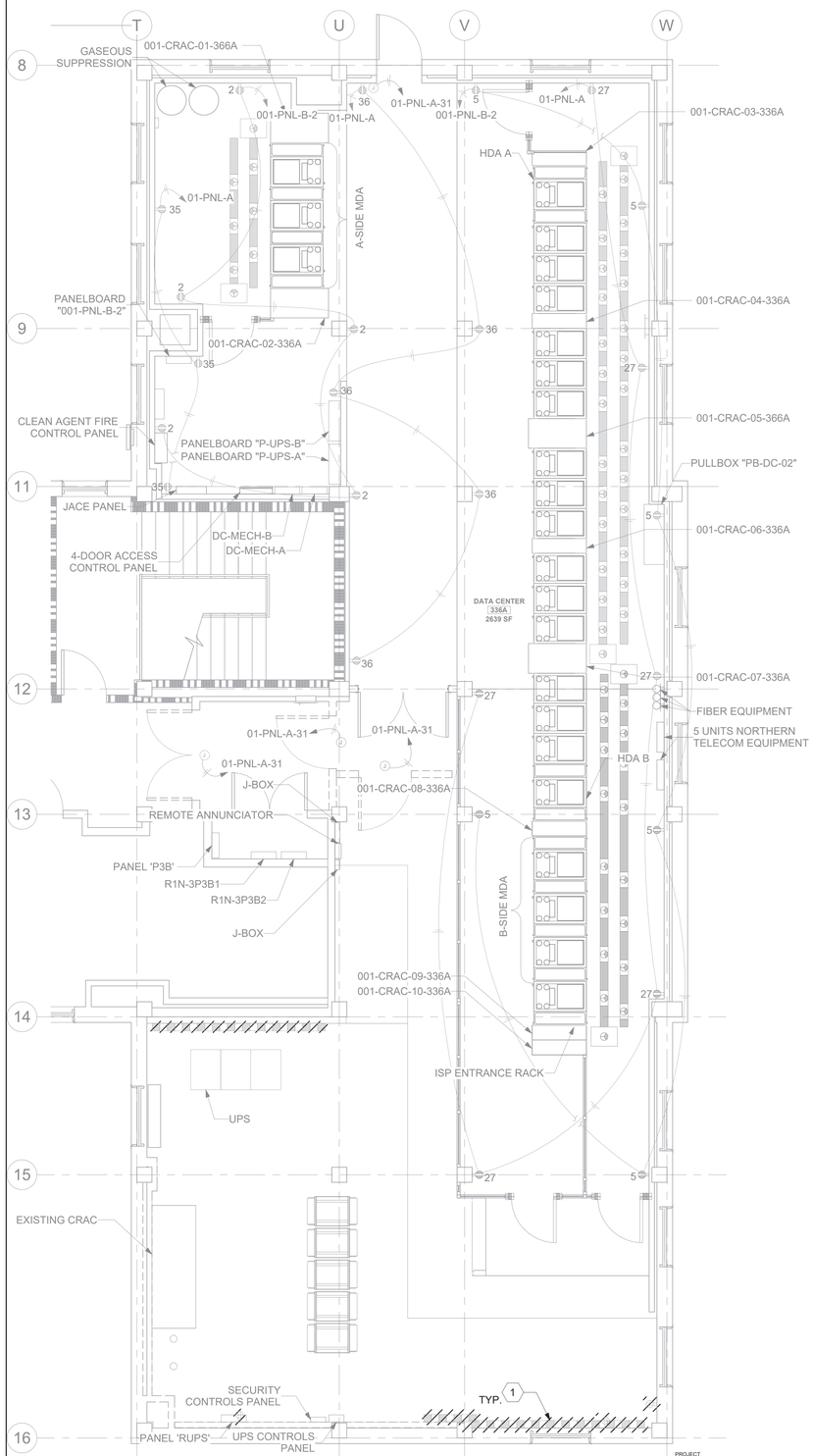
LOUIS R. LITZKO — STATE OF WASHINGTON — 55681 — 1-16-25 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

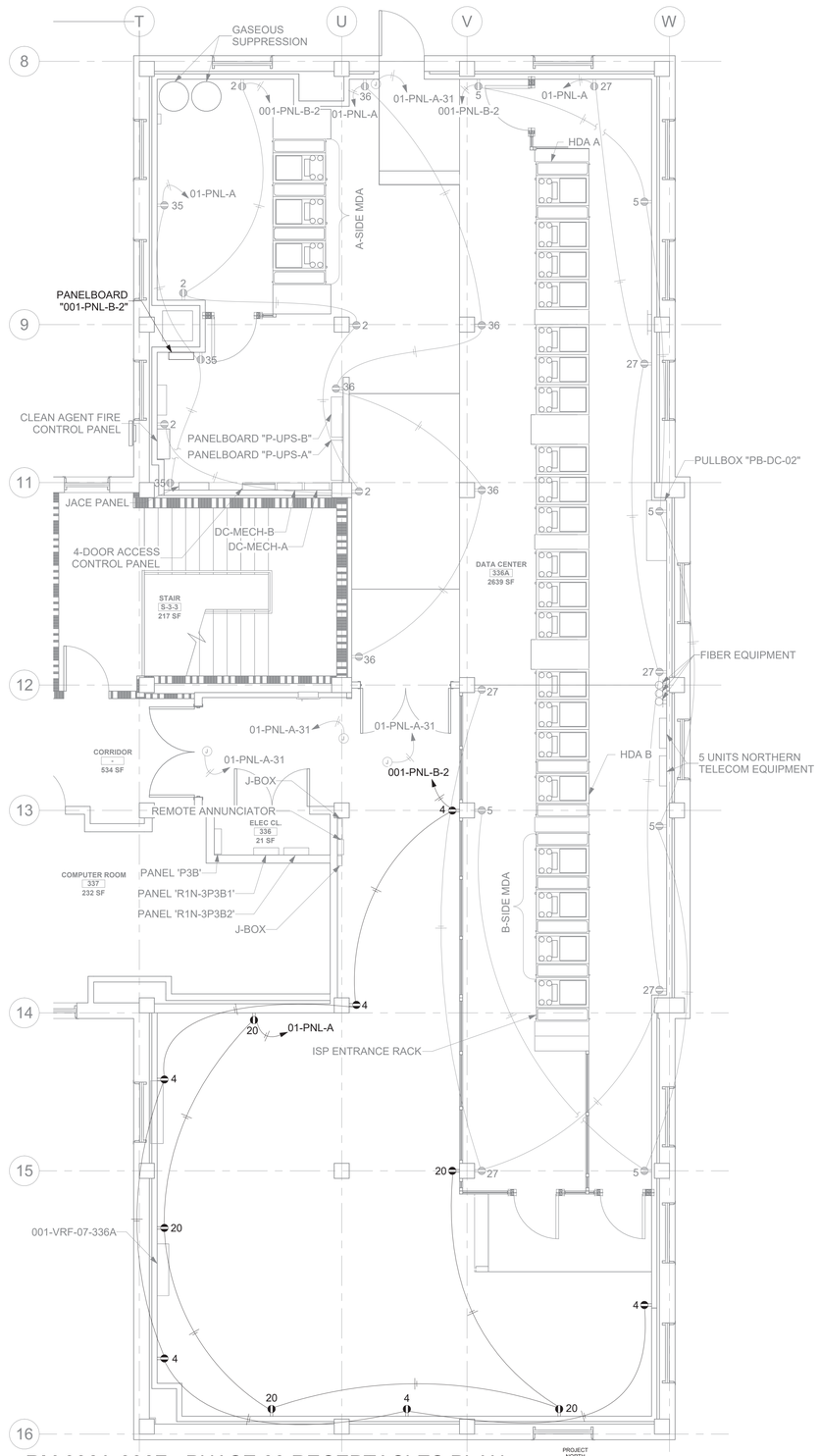
Drawing Title: BLDG 001 - LEVEL 03 - ENLARGED PHASE 02 RECEPTACLE PLANS	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER		Project Number: 405-22-700
		Building Number: 001
Location: VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009		Drawing Number: 001EP403h
Issue Date: 01/16/2026	Checked: NVP/DCW	Drawn: RTS/KDB



1 001EP103 RM 336A-336F - PHASE 03 DEMO RECEPTACLES PLAN

1/4" = 1'-0"



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KEY NOTES

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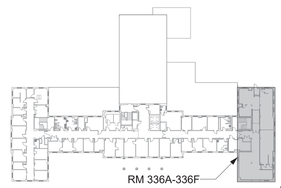
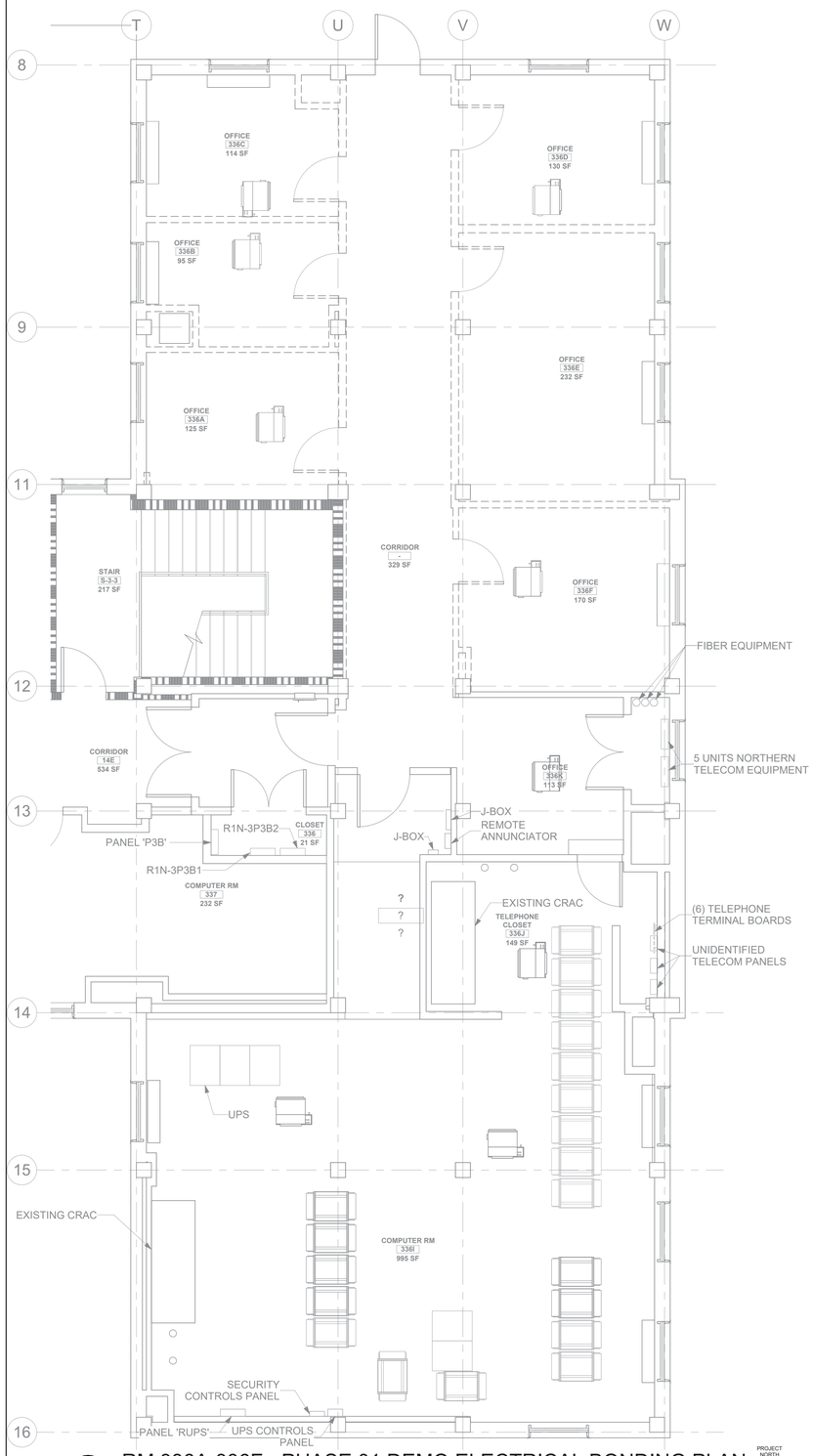
KEY PLAN



Revisions:	Date:
CONSULTANT/ DISCIPLINE	
DISCIPLINE:	
ARCHITECT/ ENGINEER OF RECORD	
A/E: SPEES DESIGN BUILD 23830 PACIFIC HIGHWAY S. SUITE 300 KENT, WA 98032	
STAMP	LOUIS R. LITZKO, STATE OF WASHINGTON, 55681, 1-16-26, REGISTERED PROFESSIONAL ENGINEER
Office of Construction and Facilities Management	
VA U.S. Department of Veterans Affairs	
Drawing Title: BLDG 001 - LEVEL 03 - ENLARGED PHASE 03 RECEPTACLE PLANS	
Phase: 100% CONSTRUCTION DOCUMENTS	
Approved:	FULLY SPRINKLERED
Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER	
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009	
Issue Date: 01/16/2026	Checked: NVP/DCW
Drawn: RTS/KDB	
Project Number: 405-22-700	
Building Number: 001	
Drawing Number: 001EP403i	

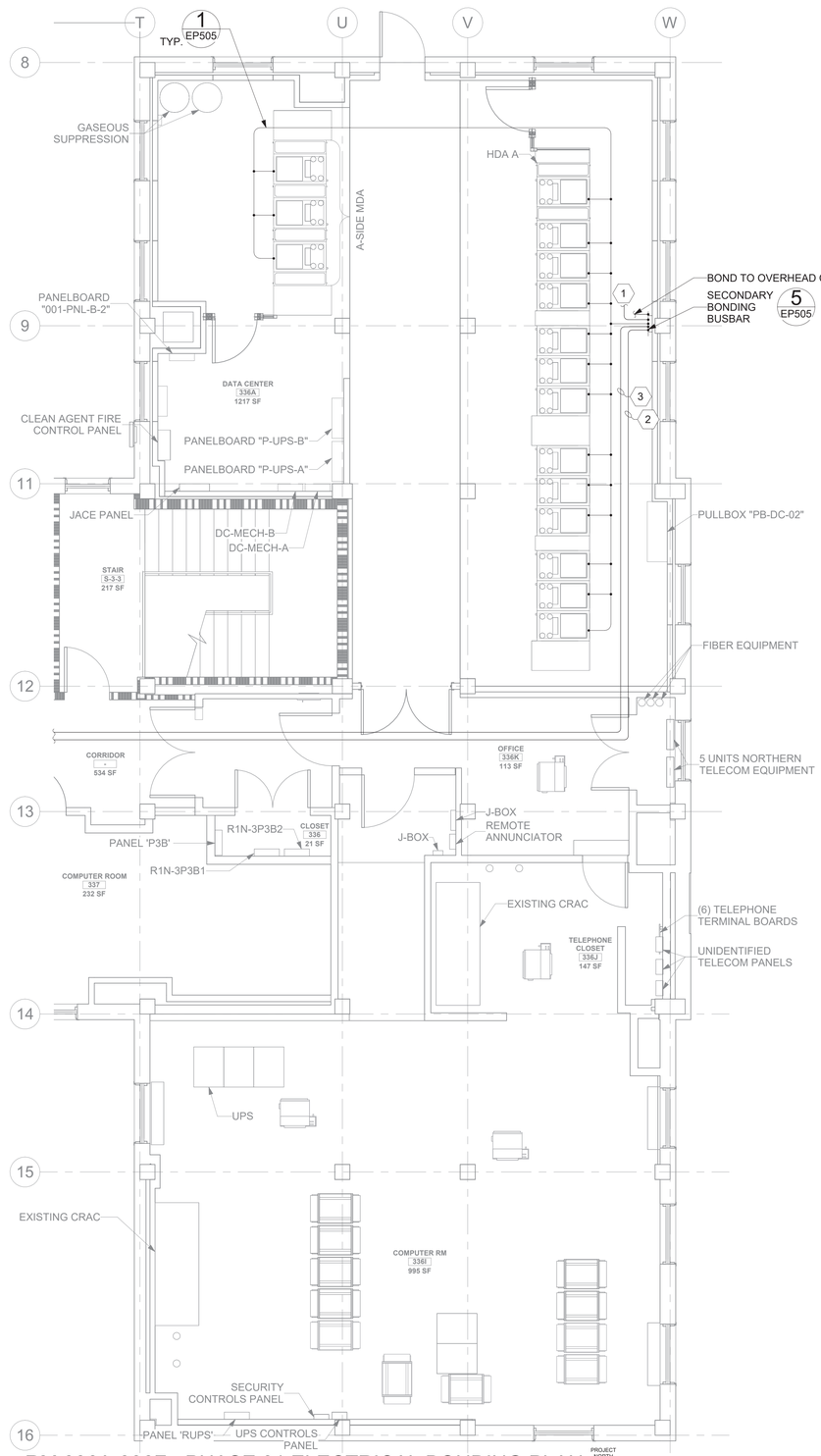


1 001EP103 RM 336A-336F - PHASE 01 DEMO ELECTRICAL BONDING PLAN

1/4" = 1'-0"

0 2' 4' 8'

PROJECT NORTH



2 001EP103 RM 336A-336F - PHASE 01 ELECTRICAL BONDING PLAN

1/4" = 1'-0"

0 2' 4' 8'

PROJECT NORTH

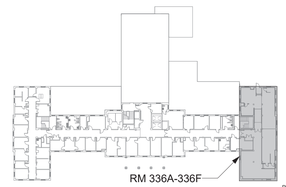
GENERAL NOTES

1. ALL ELECTRICAL WORK SHALL BE CLOSELY COORDINATED WITH THE CONTRACTORS PHASING OF THE PROJECT. COORDINATE ALL ELECTRICAL WORK WITH ALL OTHER TRADES.
2. MAKE ALL CONNECTIONS TO EQUIPMENT PER MANUFACTURER'S REQUIREMENTS.
3. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH FIRE RATING. COORDINATE WITH ARCHITECHTURAL DRAWINGS AS REQUIRED.
4. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
5. NOT ALL GROUNDING AND BONDING MAY BE SHOWN FO DRAWING CLARITY PURPOSES. ALL BONDING AND GROUNDING SHALL ADHERE TO NEC AND NFPA780. REFERENCE GORUNDING AND BONDING DETAILS FOR ADDITIONAL INFORMATION.
6. FOR ALL TELECOMMUNICATIONS BONDING CONNECTIONS, REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601.

KEY NOTES

1. PROVIDE BOND TO ELECTRO-STATIC DISCHARGE FLOORING. BONDING CONDUCTOR SHALL BE 12 AWG MIN; PROVIDE AND INSTALL PER MANUFACTURER'S INSTRUCTIONS.
2. PROVIDE TBB(S) AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.
3. PROVIDE BACKBONE BONDING CONDUCTOR (BBC) TO BOND SBBs WHEN MULTIPLE TRs ARE PRESENT ON FLOOR, MINIMUM CONDUCTOR SIZE SHALL BE EQUAL TO TBB.

KEY PLAN



SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
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STAMP

LUIS R. LITZAO
STATE OF WASHINGTON
55681
1-16-26
REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 001 - LEVEL 03 - ENLARGED PHASE 01 ELECTRICAL BONDING PLANS	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER		Project Number: 405-22-700
		Building Number: 001
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009		Drawing Number: 001EB403a
Issue Date: 01/16/2026	Checked: NVP/DCW	Drawn: RTS/KDB

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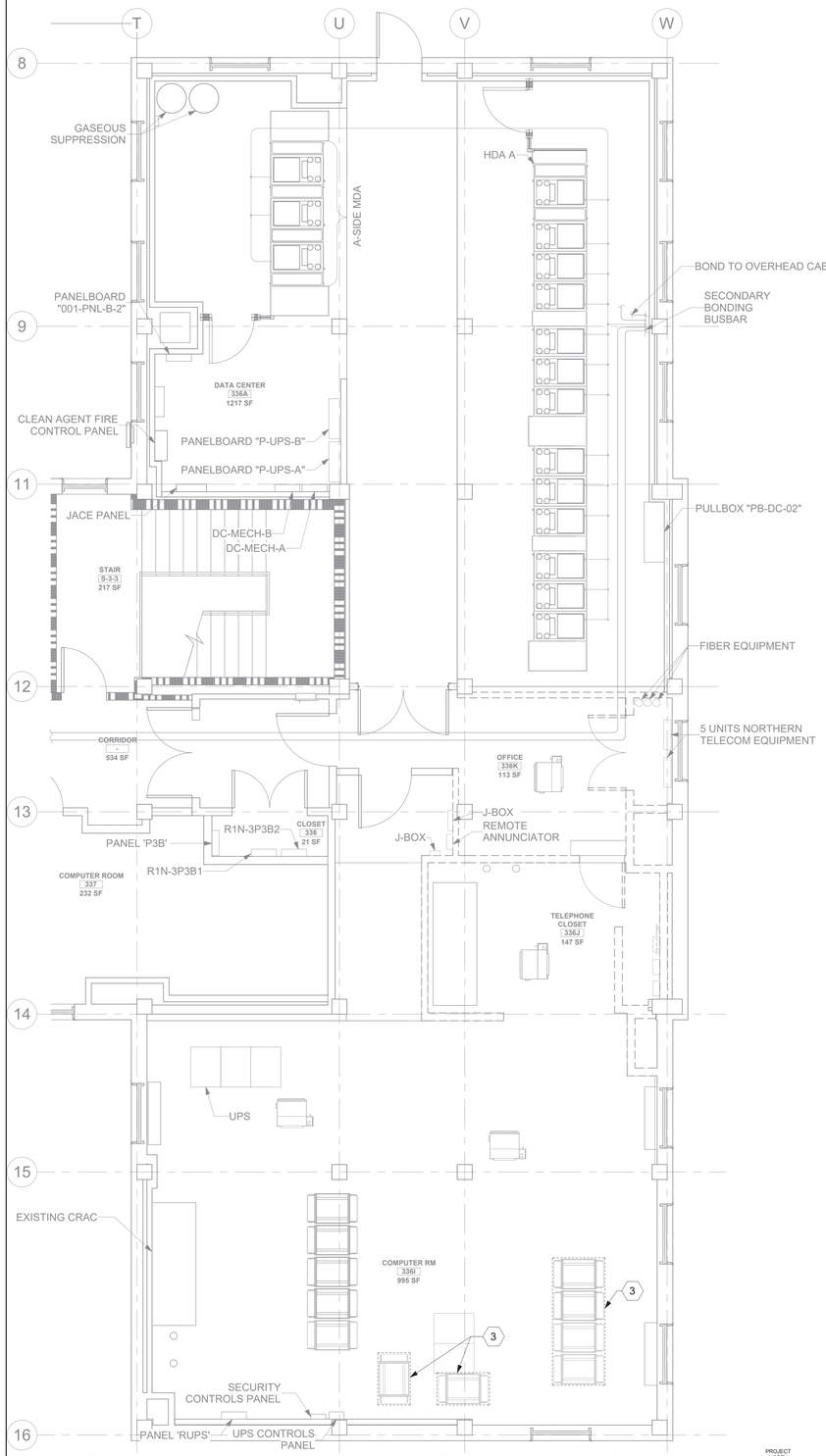
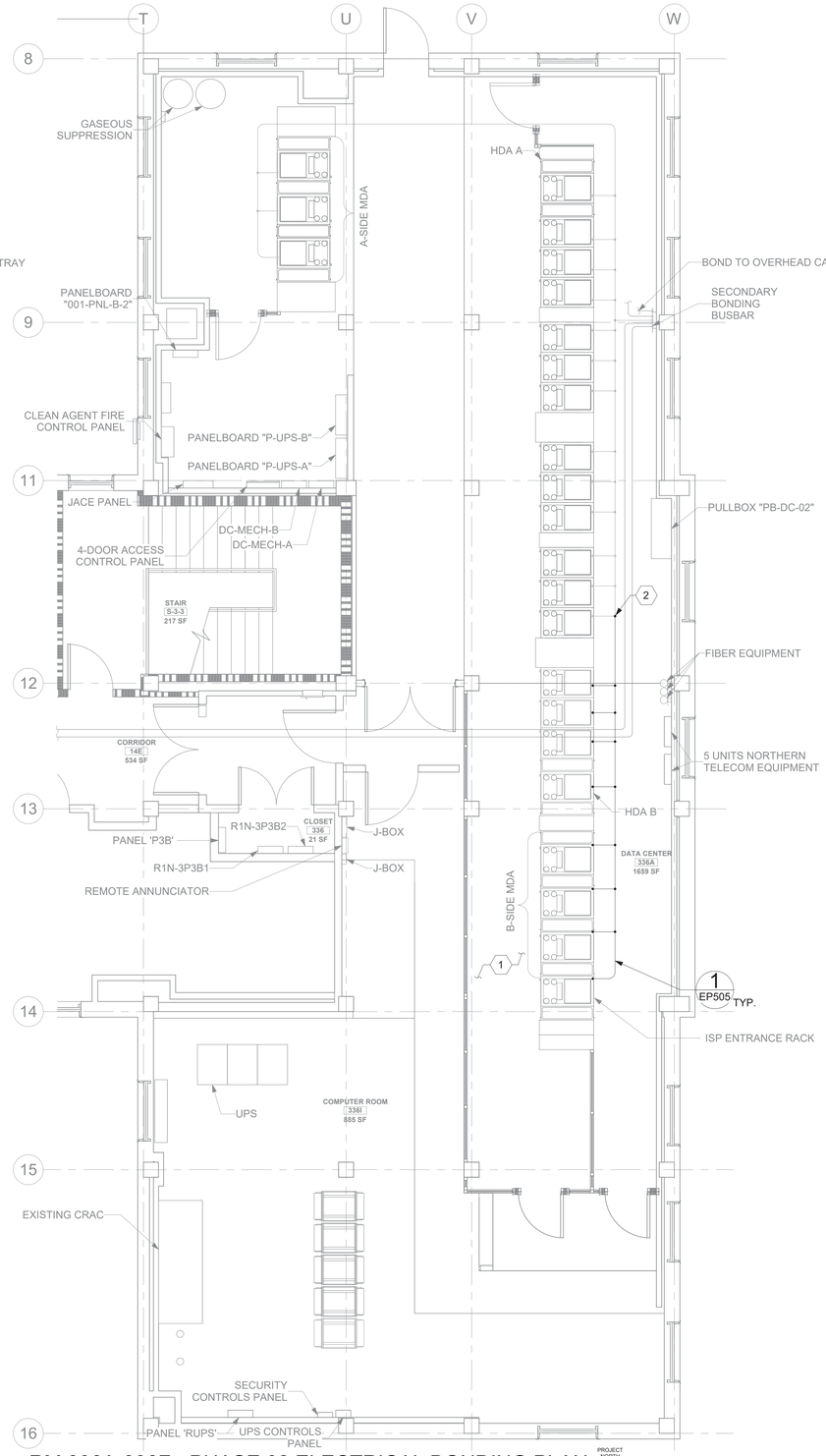


1 RM 336A-336F - PHASE 02 DEMO ELECTRICAL BONDING PLAN
001EP103 1/4" = 1'-0"



2 RM 336A-336F - PHASE 02 ELECTRICAL BONDING PLAN
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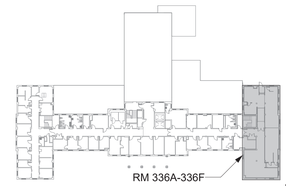
2. BOND TO EXISTING BONDING CONDUCTOR AND EXTEND AS INDICATED.
3. DEMOLISH BONDING CONDUCTORS FROM CABINET / RACK TO EXISTING MCR BONDING SOURCE.

KEY PLAN



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SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

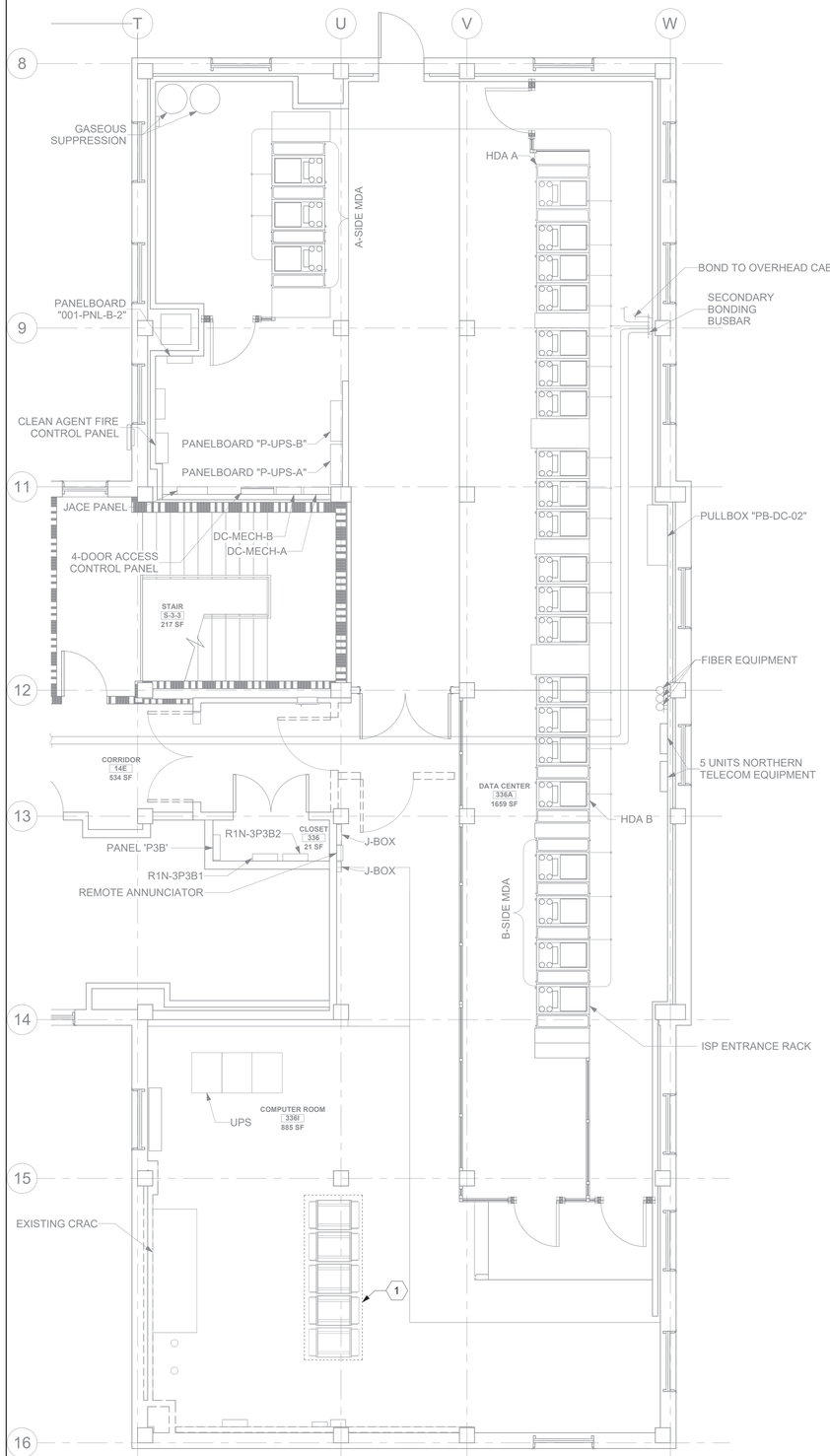
LOUIS R. LITZAU — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title BLDG 001 - LEVEL 03 - ENLARGED PHASE 02 ELECTRICAL BONDING PLANS	**Phase** 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER			**Project Number** 405-22-700
			Building Number 001
Location VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009			**Drawing Number** 001EB403b
Issue Date 01/16/2026	**Checked** NVP/DCW	**Drawn** RTS/KDB	



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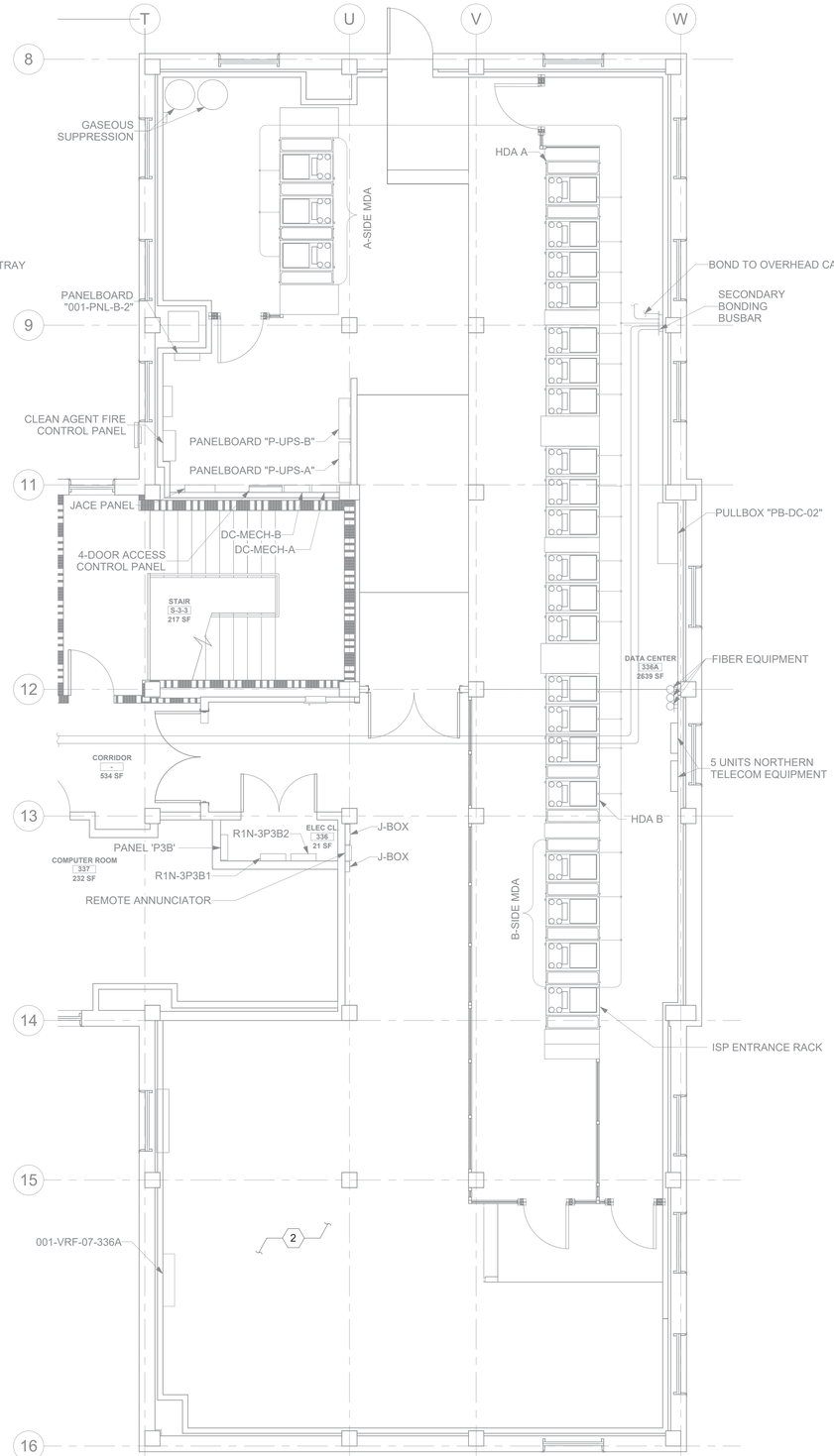
001EP103 1/4" = 1'-0"



2 RM 336A-336F - PHASE 03 ELECTRICAL BONDING PLAN
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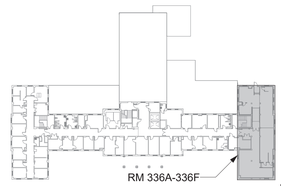
KEY NOTES

1. DEMOLISH BONDING CONDUCTORS FROM CABINET / RACK TO EXISTING MCR BONDING SOURCE.
2. DETAIL PROVIDED FOR PHASING REFERENCE ONLY.

KEY PLAN



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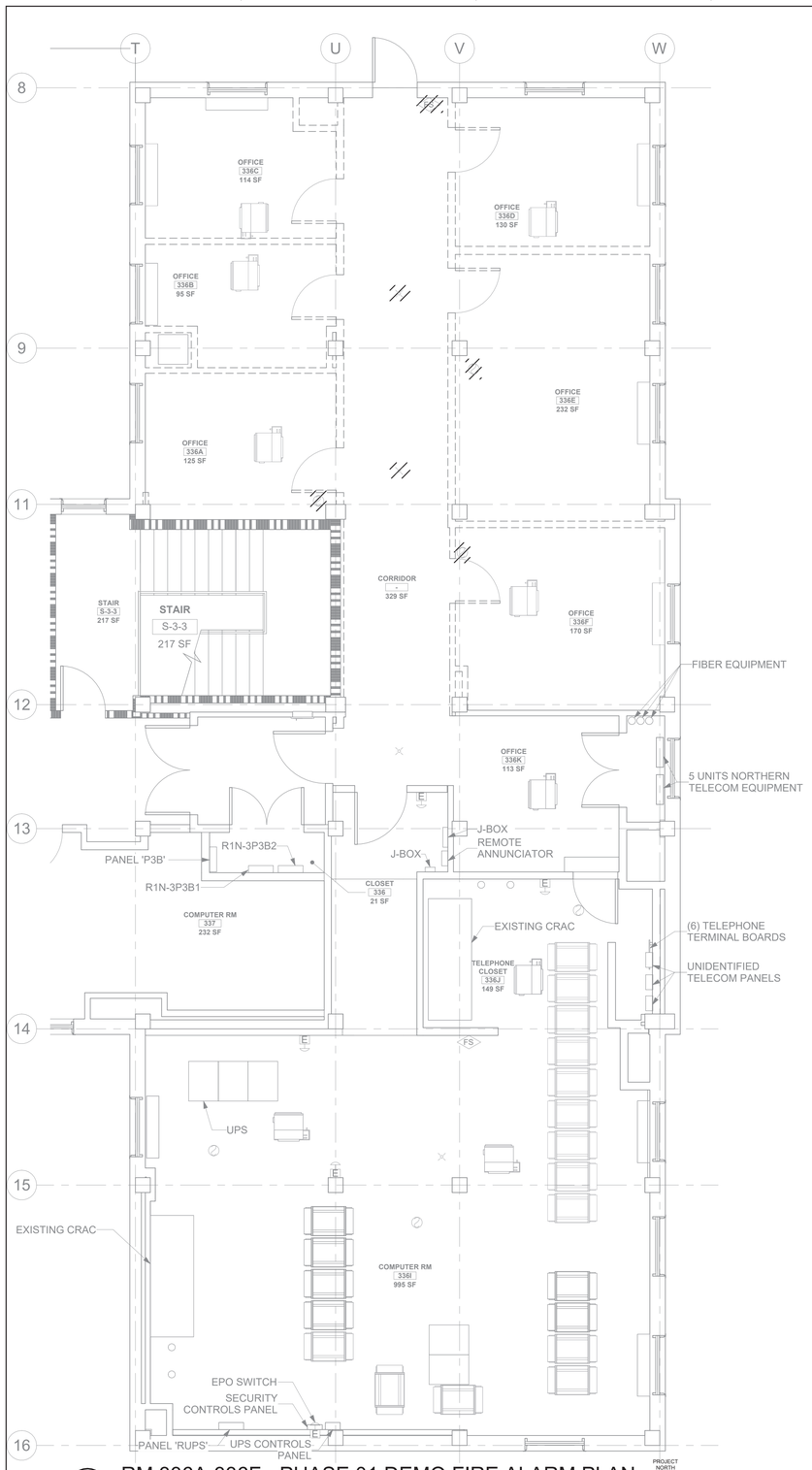
LOUIS R. LITZAU — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

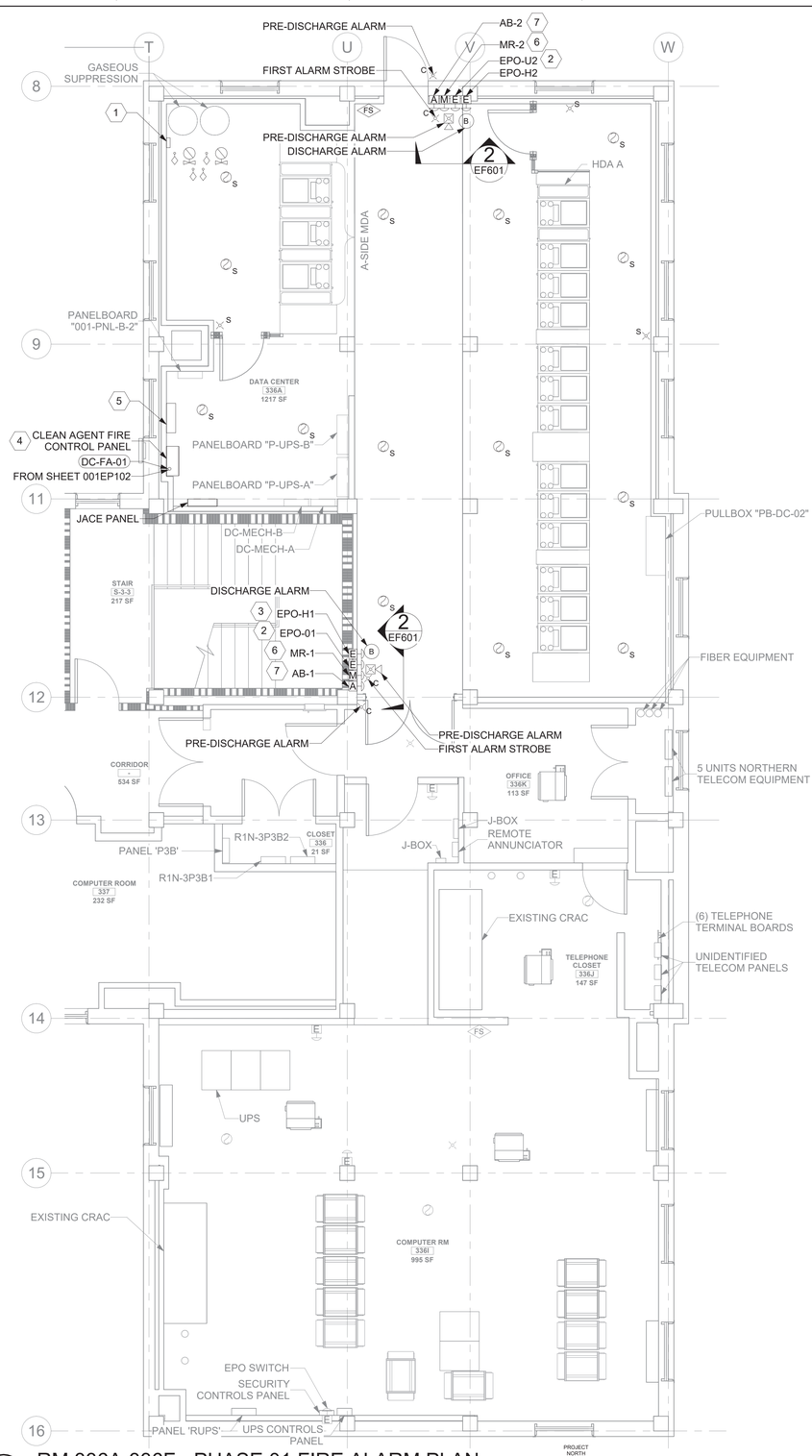
Drawing Title: BLDG 001 - LEVEL 03 - ENLARGED PHASE 03 ELECTRICAL BONDING PLANS	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER			Project Number: 405-22-700
			Building Number: 001
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009			Drawing Number: 001EB403c
Issue Date: 01/16/2026	Checked: NVP/DCW	Drawn: RTS/KDB	



1 001EP103 RM 336A-336F - PHASE 01 DEMO FIRE ALARM PLAN

1/4" = 1'-0"



2 001EP103 RM 336A-336F - PHASE 01 FIRE ALARM PLAN

1/4" = 1'-0"

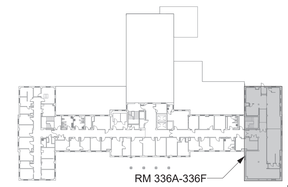
GENERAL NOTES

1. FIRE ALARM DRAWING ARE PROVIDED FOR GENERAL LAYOUT AND REQUIREMENTS. CONTRACTOR SHALL PROVIDE FIRE ALARM SHOP DRAWINGS REVIEWED AND STAMPED BY A LICENSED FIRE PROTECTION ENGINEER. REFERENCE SPECIFICATIONS 21 22 00, 28 31 00, AND DIVISION 26 FOR ALL REQUIREMENTS TO PROVIDE A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
2. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH FIRE RATINGS. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
3. ALL WIRING SHALL BE ROUTED IN 3/4" CONDUIT (MINIMUM SIZE). ALL RACEWAYS AND BOXES SHALL BE COLORED RED.
4. ALL FIRE SYSTEM PANELS AND ASSOCIATED FIELD DEVICES, INCLUDING EMERGENCY PUSHBUTTONS, SHALL BE CONNECTED WITH REQUIRED RACEWAYS AND CABLING CONDUCTORS AS REQUIRED. REFERENCE SHEET EP510 FOR ADDITIONAL INFORMATION.
5. ALL EXTERIOR MOUNTED DEVICES SHALL BE WEATHER RATED.
6. PROVIDE CONDUIT AND WIRE FOR ALL EPOs, ABORT, AND MANUAL RELEASE PUSH BUTTONS. REFERENCE CONDUIT AND WIRE SCHEDULE ON SHEET 01EP705 AND DATA CENTER FIRE ALARM RISER DIAGRAM AND I/O MATRIX DETAIL ON SHEET EF601 FOR ADDITIONAL INFORMATION.

KEY NOTES

1. MULTIPLE FIELD DEVICES; CONTRACTOR SHALL MOUNT / LAYOUT AS REQUIRED. FIELD DEVICES SHALL INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING: PRESSURE ACTIVATED SWITCH, TANK PRESSURE SWITCH, MAINTENANCE BYPASS SWITCH, TAMPER SWITCH, AND AGENT RELEASE SOLENOID. PROVIDE RACEWAYS AND CONDUCTORS AS REQUIRED. REFERENCE SHEET EF601 AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. MAIN COMPUTER ROOM (MCR) EPO SWITCH, WHEN PRESSED, SHALL DE-ENERGIZE BOTH "UPS-A" AND "UPS-B" FEEDERS SERVING MCR. EPO SHALL NOT DE-ENERGIZE ANY OTHER LOADS SUPPORTED BY "UPS-A" OR "UPS-B". EPO SHALL DE-ENERGIZE ALL INFORMATION TECHNOLOGY EQUIPMENT (ITE) WITHIN MCR AND MEET ALL NFPA 75 REQUIREMENTS. PUSHBUTTON SHALL BE MUSHROOM TYPE AND BE PROTECTED VIA CLEAR PLEXIGLASS. PROVIDE ALL CONNECTIONS, EQUIPMENT, RACEWAYS, AND CONDUCTORS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. COORDINATE WITH UPS MANUFACTURER AND PROVIDE CONDUIT AND WIRE AS REQUIRED.
3. PROVIDE HVAC SHUTDOWN SWITCH (EPO PUSH BUTTON). PUSH BUTTON SHALL BE MUSHROOM TYPE AND BE PROTECTED VIA CLEAR PLEXIGLASS. WHEN PRESSED, ALL HVAC SERVING DATA CENTER SHALL BE DE-ENERGIZED. REFERENCE DETAIL '1' ON SHEET EF601 FOR ADDITIONAL INFORMATION.
4. CLEAN AGENT CONTROL PANEL. PROVIDE PANEL AND ALL REQUIRED FIELD DEVICES. REFERENCE SHEET EF601 AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
5. PROVIDE ADDRESSABLE CONTROL DEVICES. CONTRACTOR SHALL MOUNT / LAYOUT AS REQUIRED. DEVICES INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING: CONTROL RELAYS, MONITORING MODULES, ETC. PROVIDE RACEWAYS AND CONDUCTORS AS REQUIRED. REFERENCE DATA CENTER FIRE ALARM RISER DIAGRAM AND I/O MATRIX AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
6. PROVIDE CLEAN AGENT MANUAL RELEASE BUTTON (EMERGENCY PUSH BUTTON). PUSH BUTTON SHALL BE MUSHROOM TYPE AND BE PROTECTED VIA CLEAR PLEXIGLASS. WHEN PRESSED, CLEAN AGENT PANEL SHALL BE NOTIFIED FOR MANUAL RELEASE. REFERENCE DATA CENTER FIRE ALARM RISER DIAGRAM AND I/O MATRIX FOR ADDITIONAL INFORMATION.
7. PROVIDE CLEAN AGENT ABORT BUTTON (EMERGENCY PUSH BUTTON). PUSH BUTTON SHALL BE MUSHROOM TYPE AND BE PROTECTED VIA CLEAR PLEXIGLASS. REFERENCE DATA CENTER FIRE ALARM RISER DIAGRAM AND I/O MATRIX FOR ADDITIONAL INFORMATION AND SPECIFICATION 21 22 00 FOR FUNCTIONAL REQUIREMENTS.

KEY PLAN



Revisions:	Date:
1	1/16/2026 3:40:59 AM

CONSULTANT/ DISCIPLINE

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GREY ROCK LIFE SAFETY
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COLORADO LICENSED GREGORY S. TUBBS 64740 PROFESSIONAL ENGINEER

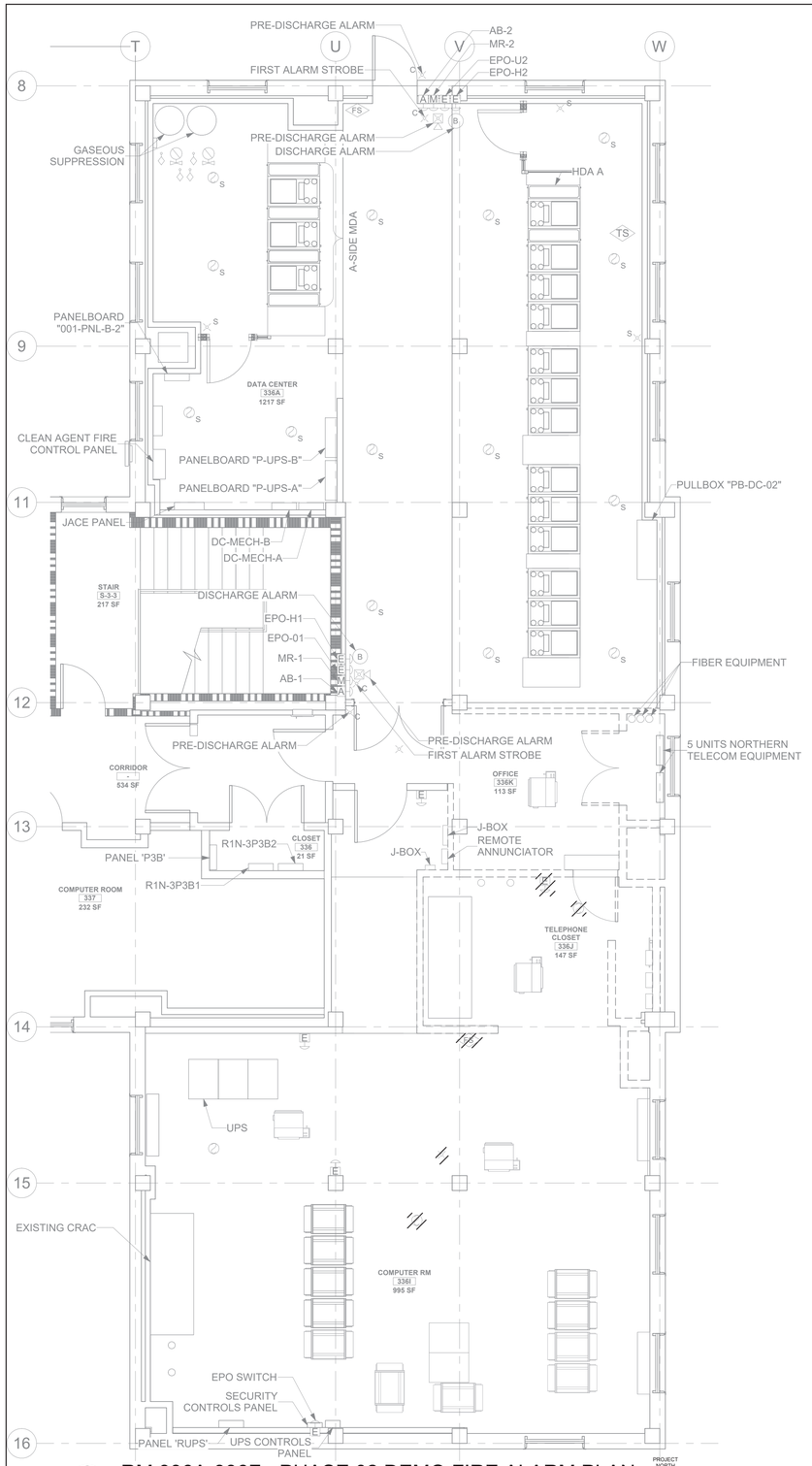
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	BLDG 001 - LEVEL 03 - ENLARGED PHASE 01 FIRE ALARM PLANS
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Project Number	405-22-700
Building Number	001
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Drawing Number	001EF403a
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB

VA FORM 08 - 6231

Autodesk Docs://405-22-700 VA VT White River Junction EHRM IU/VAWR_01_EL_SDB.rvt



1 001EP103 RM 336A-336F - PHASE 02 DEMO FIRE ALARM PLAN
1/4" = 1'-0"

2 001EP103 RM 336A-336F - PHASE 02 FIRE ALARM PLAN
1/4" = 1'-0"

GENERAL NOTES

1. FIRE ALARM DRAWING ARE PROVIDED FOR GENERAL LAYOUT AND REQUIREMENTS. CONTRACTOR SHALL PROVIDE FIRE ALARM SHOP DRAWINGS REVIEWED AND STAMPED BY A LICENSED FIRE PROTECTION ENGINEER. REFERENCE SPECIFICATIONS 21 22 00, 28 31 00, AND DIVISION 26 FOR ALL REQUIREMENTS TO PROVIDE A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
2. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH FIRE RATINGS. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
3. ALL WIRING SHALL BE ROUTED IN 3/4" CONDUIT (MINIMUM SIZE). ALL RACEWAYS AND BOXES SHALL BE COLORED RED.
4. ALL FIRE SYSTEM PANELS AND ASSOCIATED FIELD DEVICES, INCLUDING EMERGENCY PUSHBUTTONS, SHALL BE CONNECTED WITH REQUIRED RACEWAYS AND CABLING CONDUCTORS AS REQUIRED. REFERENCE SHEET EP510 FOR ADDITIONAL INFORMATION.
5. ALL EXTERIOR MOUNTED DEVICES SHALL BE WEATHER RATED.
6. PROVIDE CONDUIT AND WIRE FOR ALL EPOs, ABORT, AND MANUAL RELEASE PUSH BUTTONS. REFERENCE CONDUIT AND WIRE SCHEDULE ON SHEET 01EP705 AND DATA CENTER FIRE ALARM RISER DIAGRAM AND I/O MATRIX DETAIL ON SHEET EF601 FOR ADDITIONAL INFORMATION.

KEY NOTES

1. PROVIDE HVAC SHUTDOWN SWITCH (EPO PUSH BUTTON). PUSH BUTTON SHALL BE MUSHROOM TYPE AND BE PROTECTED VIA CLEAR PLEXIGLASS. WHEN PRESSED, ALL HVAC SERVING DATA CENTER SHALL BE DE-ENERGIZED. REFERENCE DETAIL '1' ON SHEET EF601 FOR ADDITIONAL INFORMATION.
2. MAIN COMPUTER ROOM (MCR) EPO SWITCH, WHEN PRESSED, SHALL DE-ENERGIZE BOTH "UPS-A" AND "UPS-B" FEEDERS SERVING MCR; EPO SHALL NOT DE-ENERGIZE ANY OTHER LOADS SUPPORTED BY "UPS-A" OR "UPS-B". EPO SHALL DE-ENERGIZE ALL INFORMATION TECHNOLOGY EQUIPMENT (ITE) WITHIN MCR AND MEET ALL NFPA 75 REQUIREMENTS. PUSHBUTTON SHALL BE MUSHROOM TYPE AND BE PROTECTED VIA CLEAR PLEXIGLASS. PROVIDE ALL CONNECTIONS, EQUIPMENT, RACEWAYS, AND CONDUCTORS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. COORDINATE WITH UPS MANUFACTURER AND PROVIDE CONDUIT AND WIRE AS REQUIRED.
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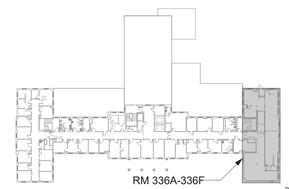
4. PROVIDE CLEAN AGENT ABORT BUTTON (EMERGENCY PUSH BUTTON). PUSH BUTTON SHALL BE MUSHROOM TYPE AND BE PROTECTED VIA CLEAR PLEXIGLASS. REFERENCE DATA CENTER FIRE ALARM RISER DIAGRAM AND I/O MATRIX FOR ADDITIONAL INFORMATION AND SPECIFICATION 21 22 00 FOR FUNCTIONAL REQUIREMENTS.

KEY PLAN



SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

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GREY ROCK LIFE SAFETY

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SPEESDESIGNBUILD

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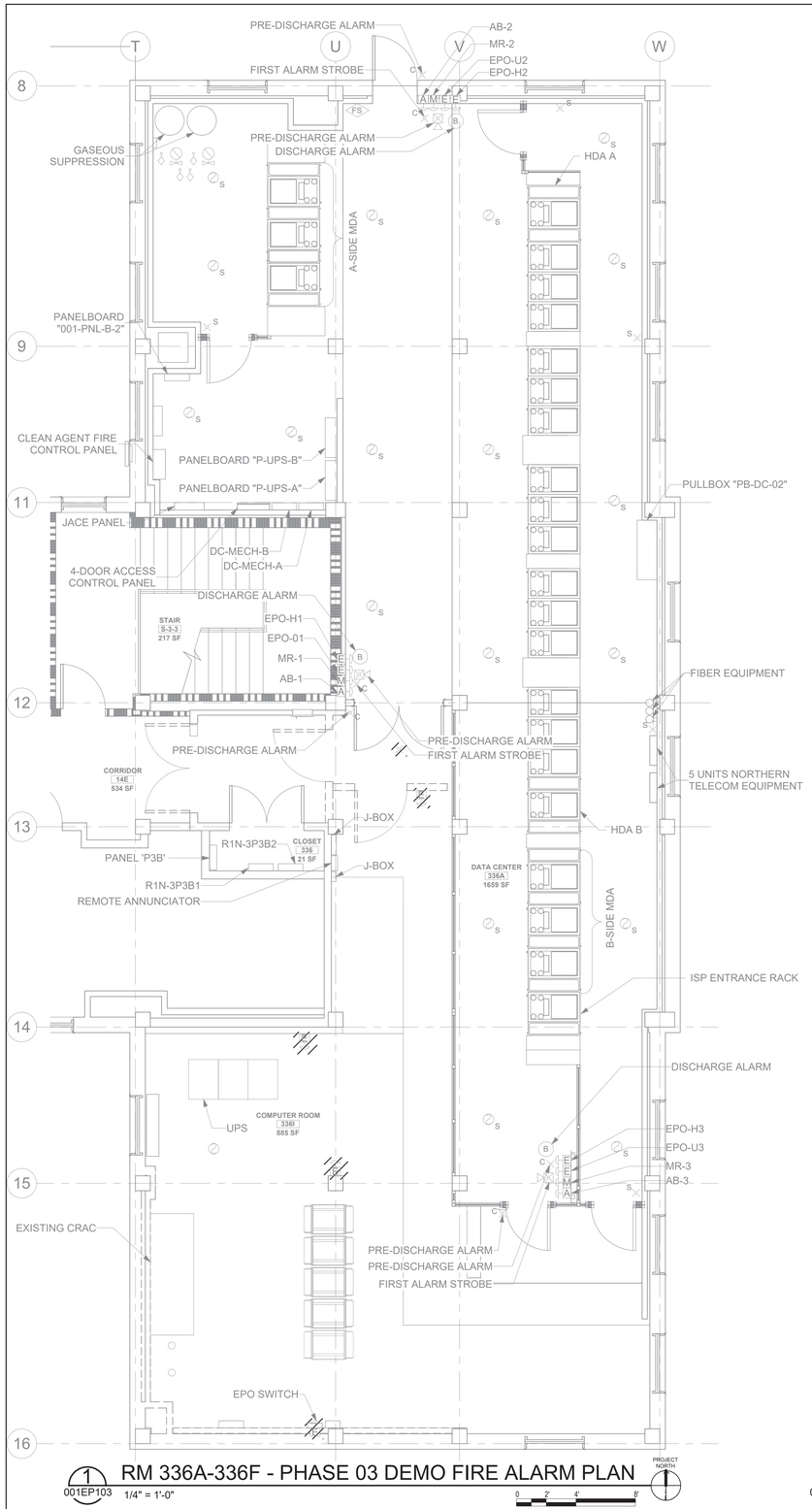
COLORADO LICENSED GREGORY S. TUNEL 64740 PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

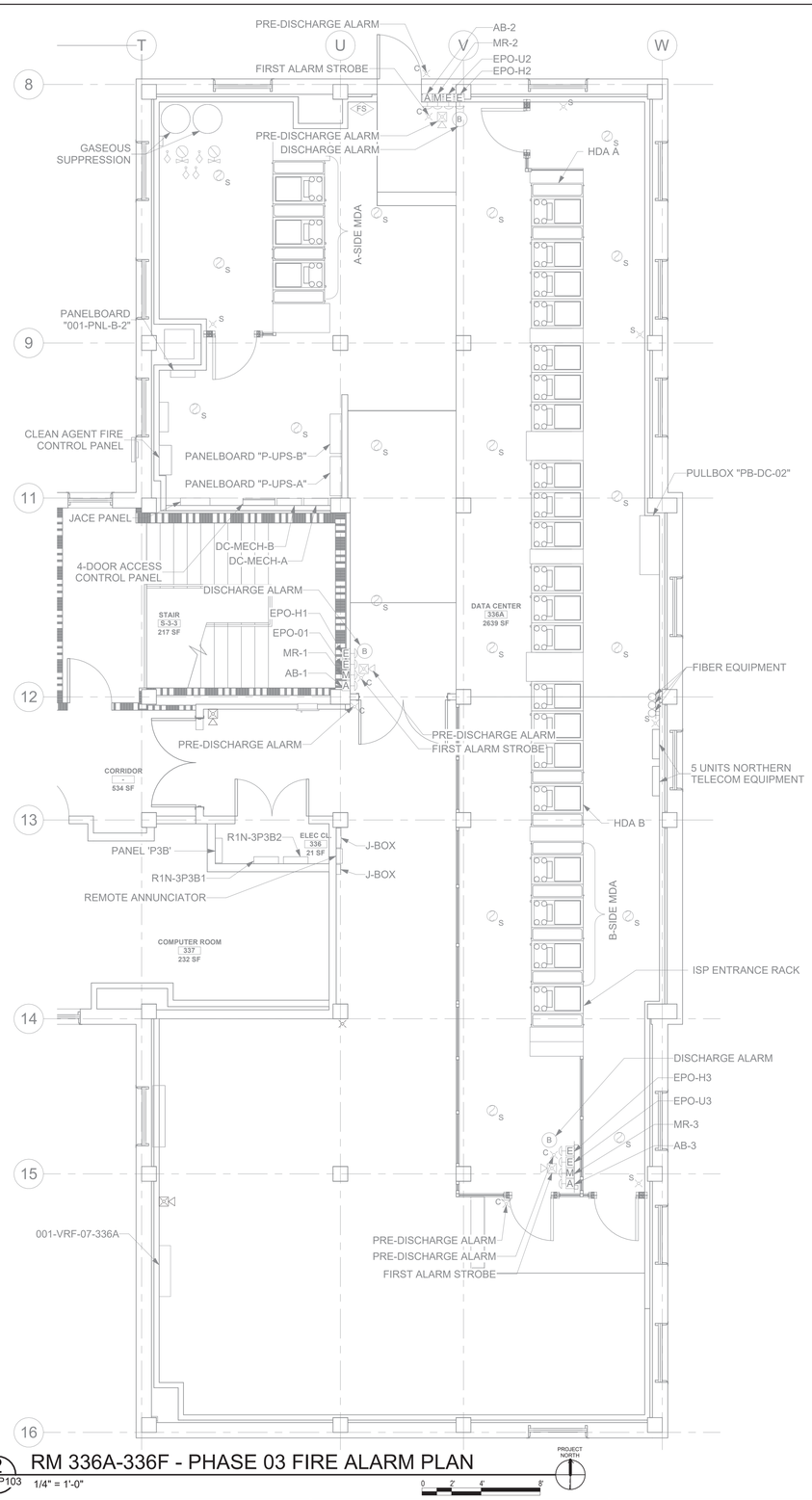
Drawing Title: BLDG 001 - LEVEL 03 - ENLARGED PHASE 02 FIRE ALARM PLANS	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER	Project Number: 405-22-700
	Building Number: 001
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009	Drawing Number: 001EF403b
Issue Date: 01/16/2026 / Checked: NVP/DCW / Drawn: RTS/KDB	



1 001EP103 RM 336A-336F - PHASE 03 DEMO FIRE ALARM PLAN

1/4" = 1'-0"



2 001EP103 RM 336A-336F - PHASE 03 FIRE ALARM PLAN

1/4" = 1'-0"

GENERAL NOTES

1. FIRE ALARM DRAWING ARE PROVIDED FOR GENERAL LAYOUT AND REQUIREMENTS. CONTRACTOR SHALL PROVIDE FIRE ALARM SHOP DRAWINGS REVIEWED AND STAMPED BY A LICENSED FIRE PROTECTION ENGINEER. REFERENCE SPECIFICATIONS 21 22 00, 28 31 00, AND DIVISION 26 FOR ALL REQUIREMENTS TO PROVIDE A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
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3. ALL WIRING SHALL BE ROUTED IN 3/4" CONDUIT (MINIMUM SIZE). ALL RACEWAYS AND BOXES SHALL BE COLORED RED.
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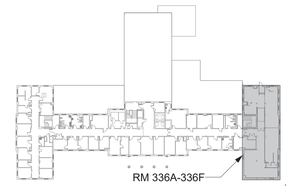
6. PROVIDE CONDUIT AND WIRE FOR ALL EPOs, ABORT, AND MANUAL RELEASE PUSH BUTTONS. REFERENCE CONDUIT AND WIRE SCHEDULE ON SHEET 01EP705 AND DATA CENTER FIRE ALARM RISER DIAGRAM AND I/O MATRIX DETAIL ON SHEET EF601 FOR ADDITIONAL INFORMATION.

KEY NOTES

KEY PLAN



SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:
GREY ROCK LIFE SAFETY
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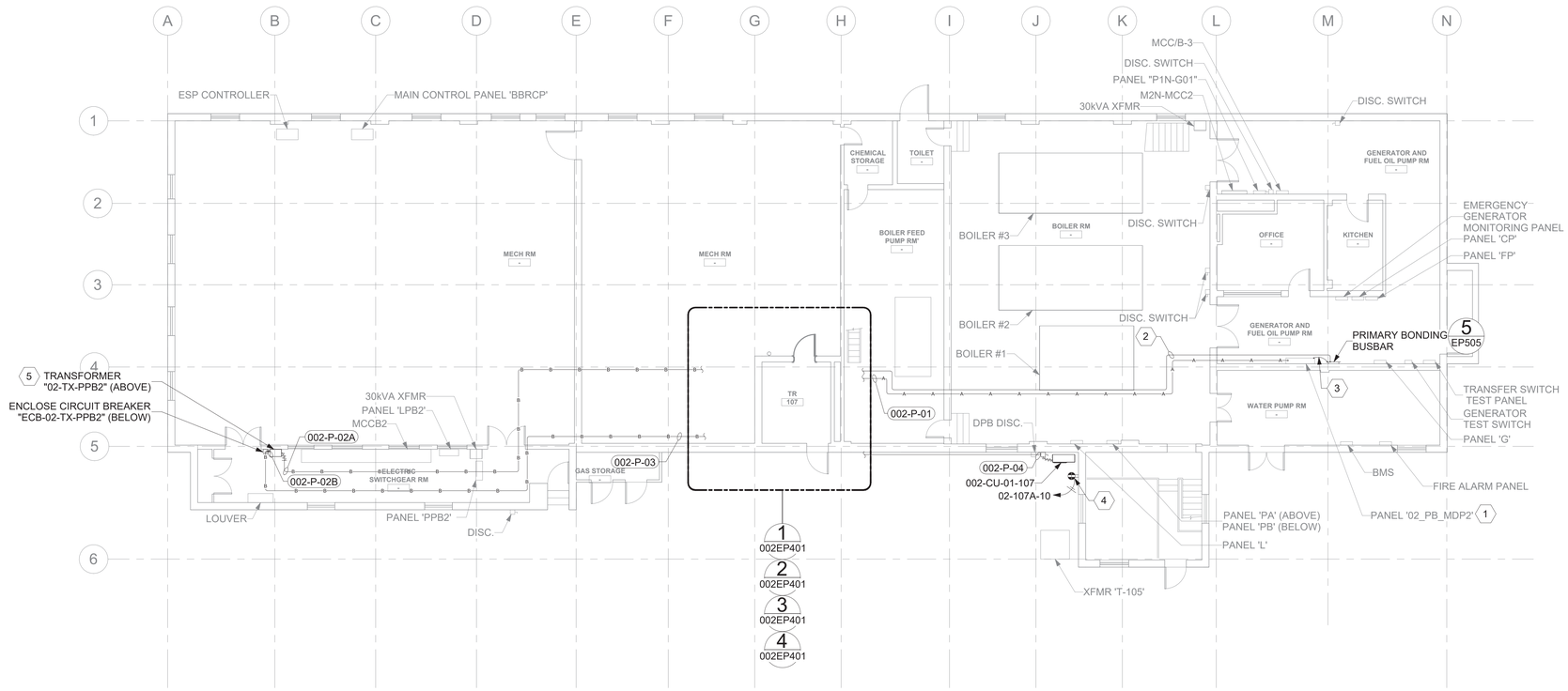
COLORADO LICENSED GREGORY S. TUBBLE 64740 PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title BLDG 001 - LEVEL 03 - ENLARGED PHASE 03 FIRE ALARM PLANS	**Phase** 100% CONSTRUCTION DOCUMENTS	**Project Title** EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER	**Project Number** 405-22-700
			Building Number 001
Approved:	FULLY SPRINKLERED	**Location** VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009	**Drawing Number** 001EF403c
		Issue Date 01/16/2026 / **Checked** NVP/DCW / **Drawn** RTS/KDB	



1 BLDG 002 -LEVEL 01 - ELECTRICAL PLAN

1/8" = 1'-0"

PROJECT NORTH

0 4' 8' 16'

LEGEND

PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.

- 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
- 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

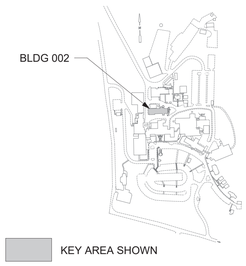
GENERAL NOTES

1. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL REMOVE ALL ELECTRICAL EQUIPMENT, CONDUCTORS, AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION OF MILLWORK.
3. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BE INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFORM WITH VA STANDARDS.
4. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH EXISTING FIRE RATING OR NEW FIRE RATING, IF REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
5. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
6. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
7. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULLBOX PLACEMENT AND SIZING BY CONTACTOR. COORDINATE PULLBOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.

KEY NOTES

1. MODIFIED EQUIPMENT. REFERENCE BUILDING 002 ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
2. PROVIDE TBB(S) AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.
3. PROVIDE TBC AS SHOWN. REFERENCE TELECOM BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.
4. PROVIDE CONVENIENCE RECEPTACLE, 20A, 120V, GFCI, WR, WITH WHILE-IN-USE COVER.
5. CONTRACTOR SHALL WALL MOUNT TRANSFORMER "02-TX-PPB2" ABOVE ENCLOSED CIRCUIT BREAKER "ECB-02-TX-PPB2".

KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE

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ARCHITECT/ ENGINEER OF RECORD

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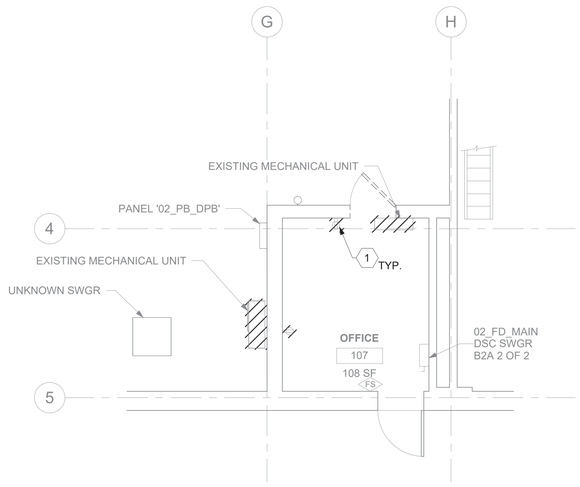
LOUIS R. UTZAO
STATE OF WASHINGTON
55681
1-16-26
REGISTERED
PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

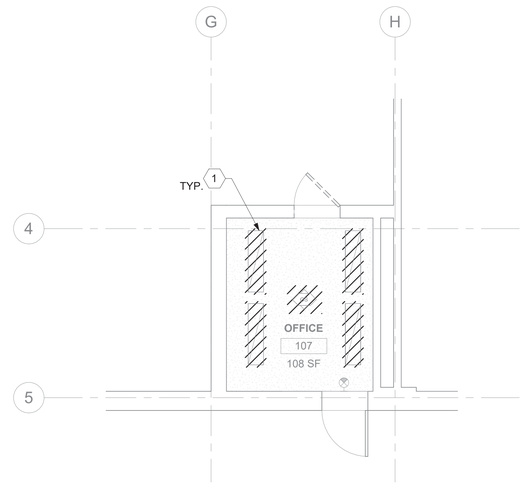
VA U.S. Department of Veterans Affairs

Drawing Title	BLDG 002 - LEVEL 01 - ELECTRICAL PLAN
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Project Number	405-22-700
Building Number	002
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Drawing Number	002EP101
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB



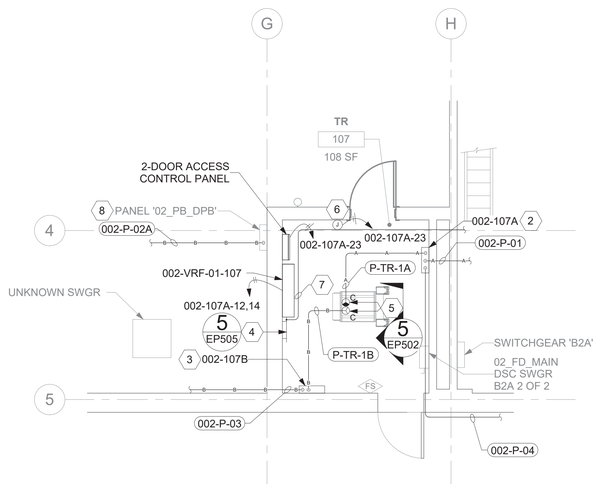
1 002EP101 RM 107 - DEMO ELECTRICAL PLAN

1/4" = 1'-0"



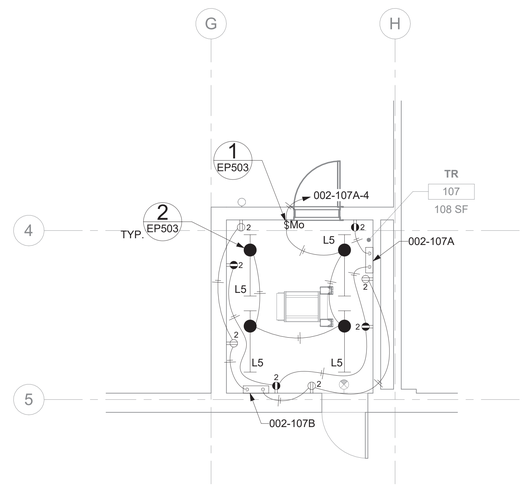
2 002EP101 RM 107 - DEMO LIGHTING PLAN

1/4" = 1'-0"



3 002EP101 RM 107 - ELECTRICAL PLAN

1/4" = 1'-0"



4 002EP101 RM 107 - LIGHTING AND RECEPTACLE PLAN

1/4" = 1'-0"

LEGEND

PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.

- 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
- 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

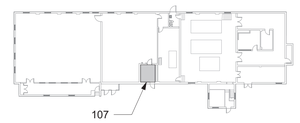
GENERAL NOTES

1. DEMOLITION PLANS/NOTES ARE BASED ON SITE INVESTIGATIONS AND RECORD DRAWINGS. IF DISCREPANCIES ARE FOUND THAT MAY IMPACT WORK, PROMPTLY NOTIFY VA AND ENGINEER OF SAID DISCREPANCY.
2. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL DEMOLISH ALL ELECTRICAL EQUIPMENT, CONDUCTORS AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION, UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BE INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFORM WITH VA STANDARDS.
5. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH EXISTING FIRE RATING OR NEW FIRE RATING, IF REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
6. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
7. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
8. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULL BOX PLACEMENT AND SIZING BY CONTRACTOR. COORDINATE PULL BOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.
9. ALL RECEPTACLES AND SWITCHES SHALL BE PROVIDED WITH PANEL AND CIRCUIT LABELING LOCATED DIRECTLY ON THE WALL PLATE; IE:"P4-1", PANEL "4", CIRCUIT "1". REFERENCE WIRING DEVICE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEY NOTES

1. EXISTING EQUIPMENT SHALL BE DEMOLISHED. ASSOCIATED CONDUIT AND WIRE SHALL BE DEMOLISHED BACK TO SOURCE.
2. SOURCE A POWER PANELBOARD "002-107A".
3. SOURCE B POWER PANELBOARD "002-107B".
4. PROVIDE SECONDARY BONDING BUSBAR. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.
5. OVERHEAD TR RACK SOURCE A AND SOURCE B POWER RECEPTACLE.
6. FURNISH AND INSTALL POWER SUPPLY WITHIN JUNCTION BOX AS INDICATED ABOVE ACCESSIBLE CEILINGS. VERIFY LOCATIONS WITH ARCHITECT. PROVIDE (1) POWER SUPPLY FOR EACH DOOR OPENING. PROVIDE 120V POWER TO SERVE DOORS WITH ELECTRIFIED DOOR HARDWARE AND MAKE CONNECTIONS AS REQUIRED; REFERENCE PANEL SCHEDULE "002-107A" FOR CIRCUITING INFORMATION. SEE REQUIREMENTS IN 08 71 00 - DOOR HARDWARE. COORDINATE WITH ARCHITECT AND DOOR INSTALLER.
7. PROVIDE TBB(S) AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.
8. MODIFIED EQUIPMENT. REFERENCE BUILDING 002 ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.

KEY PLAN



SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
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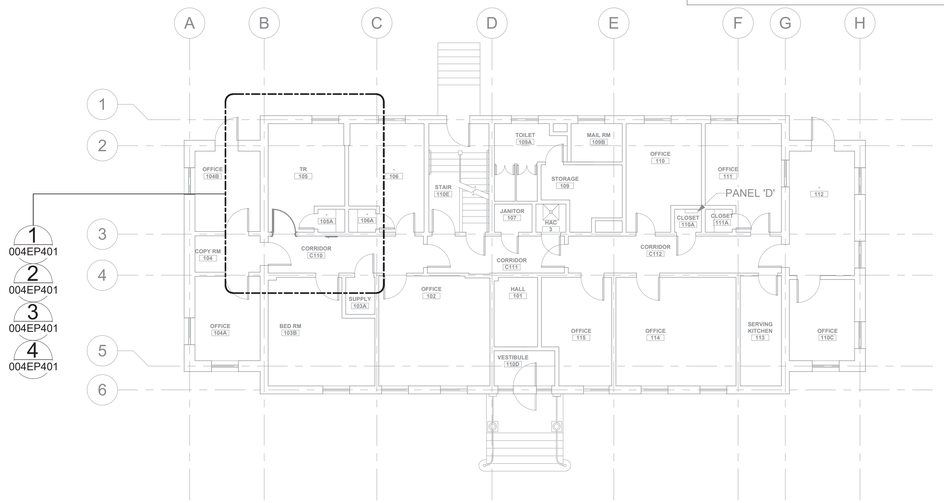
LOUIS R. LUTZAO
STATE OF WASHINGTON
55681
1-16-26
REGISTERED
PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 002 - LEVEL 01 - ENLARGED ELECTRICAL PLANS	Phase: 100% CONSTRUCTION DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER	Project Number: 405-22-700
			Building Number: 002
Approved:	FULLY SPRINKLERED	Location: VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009	Drawing Number: 002EP401
		Issue Date: 01/16/2026 / Checked: NVP/DCW / Drawn: RTS/KDB	

LEGEND
PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.
A 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
B 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
A 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
B 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR



2 - BLDG 004 - LEVEL 01 - ELECTRICAL PLAN
1/8" = 1'-0"

PROJECT NORTH

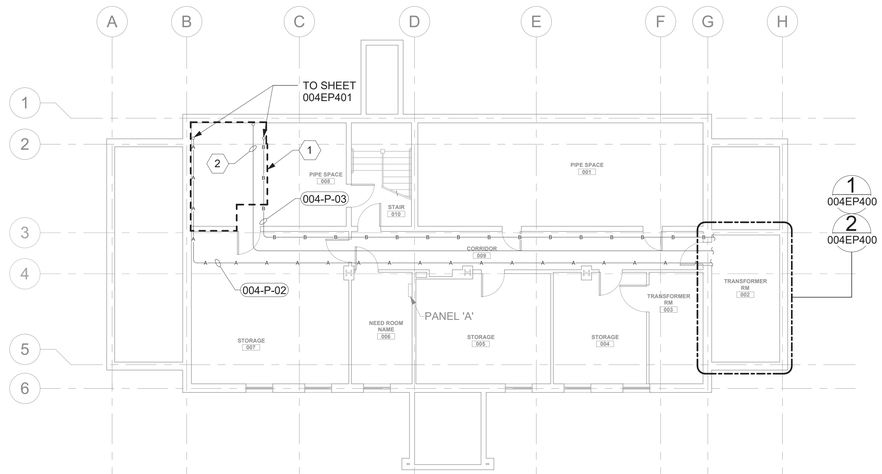
0 4' 8' 16'

GENERAL NOTES

1. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL REMOVE ALL ELECTRICAL EQUIPMENT, CONDUCTORS, AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION OF MILLWORK.
3. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BE INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFORM WITH VA STANDARDS.
4. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH EXISTING FIRE RATING OR NEW FIRE RATING, IF REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
5. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
6. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
7. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULLBOX PLACEMENT AND SIZING BY CONTACTOR. COORDINATE PULLBOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.

KEY NOTES

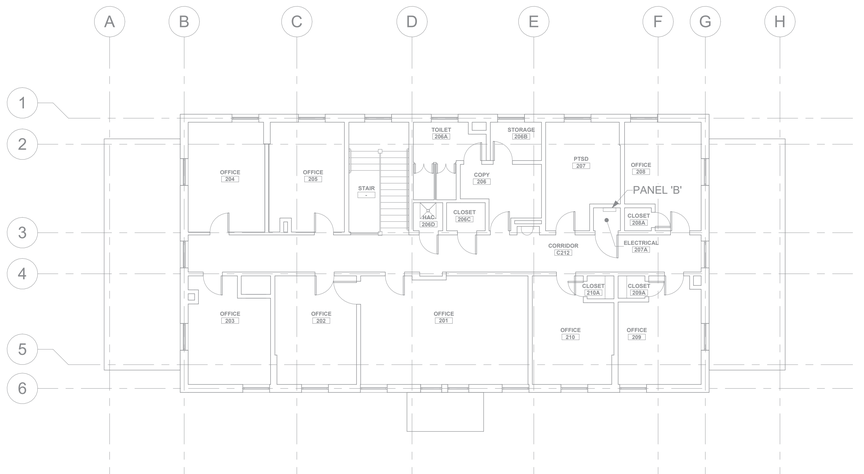
1. APPROXIMATE FOOTPRINT OF TR "105" LOCATED ON FLOORS ABOVE. FEEDERS ROUTE THROUGH VERTICALLY STACKED TR "105"; REFERENCE ENLARGED ELECTRICAL PLANS 004EP401 FOR ADDITIONAL INFORMATION.
2. PROVIDE TBB(S) AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.



1 - BLDG 004 - LEVEL 00 - ELECTRICAL PLAN
1/8" = 1'-0"

PROJECT NORTH

0 4' 8' 16'

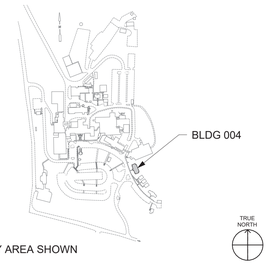


3 - BLDG 004 - LEVEL 02 - ELECTRICAL PLAN
1/8" = 1'-0"

PROJECT NORTH

0 4' 8' 16'

KEY PLAN



KEY AREA SHOWN

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
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LOUIS R. LITZKO
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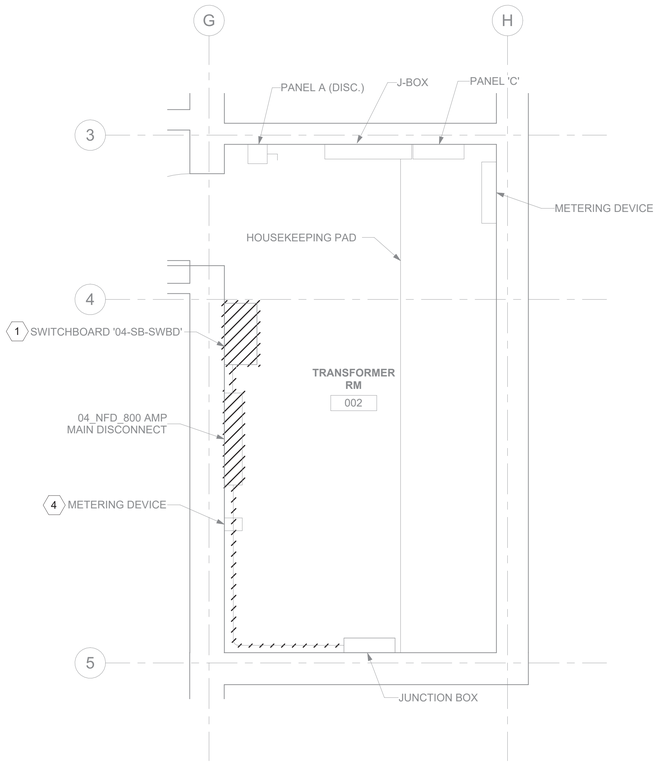
Office of Construction and Facilities Management

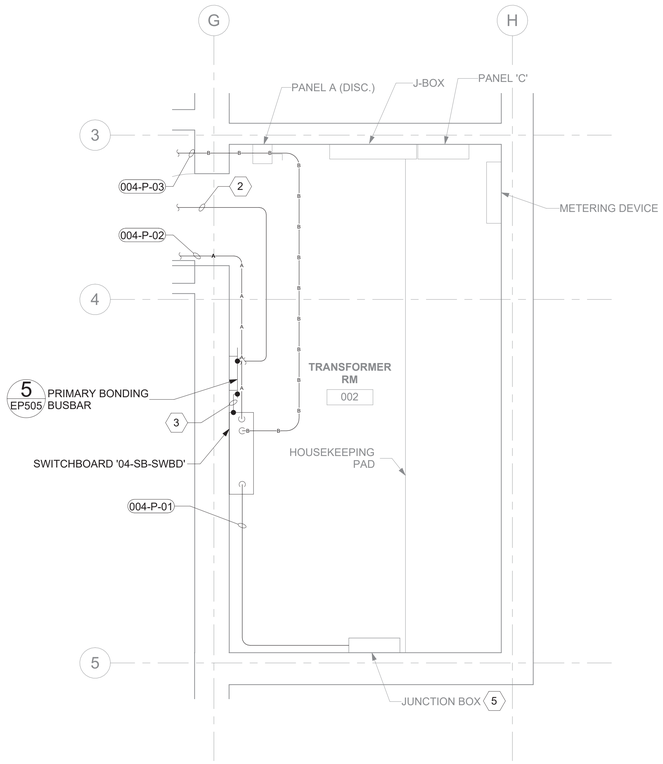
VA U.S. Department of Veterans Affairs

Drawing Title	BLDG 004 - LEVEL 00, 01 & 02 - ELECTRICAL PLANS
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB
Project Number	405-22-700
Building Number	004
Drawing Number	004EP100



1 004EP100 RM 002 - DEMO ELECTRICAL PLAN

1/2" = 1'-0"



2 004EP100 RM 002 - ELECTRICAL PLAN

1/2" = 1'-0"

LEGEND
PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.
'A' SIDE POWER, CONCEALED WHERE POSSIBLE
'B' SIDE POWER, CONCEALED WHERE POSSIBLE
'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

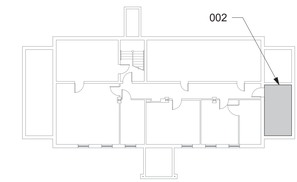
GENERAL NOTES

1. DEMOLITION PLANS/NOTES ARE BASED ON SITE INVESTIGATIONS AND RECORD DRAWINGS. IF DISCREPANCIES ARE FOUND THAT MAY IMPACT WORK, PROMPTLY NOTIFY VA AND ENGINEER OF SAID DISCREPANCY.
2. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL DEMOLISH ALL ELECTRICAL EQUIPMENT, CONDUCTORS AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION, UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BE INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFORM WITH VA STANDARDS.
5. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH EXISTING FIRE RATING OR NEW FIRE RATING, IF REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
6. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
7. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
8. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULL BOX PLACEMENT AND SIZING BY CONTRACTOR. COORDINATE PULL BOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.
9. ALL RECEPTACLES AND SWITCHES SHALL BE PROVIDED WITH PANEL AND CIRCUIT LABELING LOCATED DIRECTLY ON THE WALL PLATE; IE:"P4-1", PANEL "4", CIRCUIT "1". REFERENCE WIRING DEVICE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEY NOTES

1. EXISTING PANELBOARD SHALL BE DEMOLISHED AND REPLACED AS INDICATED. PRESERVE AND PROTECT EXISTING BRANCH CIRCUITS FOR RE-TERMINATION TO REVISED EQUIPMENT; PROVIDE JUNCTION BOXES (QUANTITY AS REQUIRED) TO HOUSE CONDUCTOR TERMINATIONS. SIZE JUNCTION BOXES PER NEC. COORDINATE FINAL JUNCTION BOX LOCATIONS WITH EXISTING CONDITIONS AND EQUIPMENT AS REQUIRED. REFERENCE BUILDING 004 ONE-LINE DIAGRAMS FOR ADDITIONAL INFORMATION.
2. PROVIDE TBB(S) AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.
3. PROVIDE TBC AS SHOWN. REFERENCE TELECOM BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.
4. EQUIPMENT SHALL BE SALVAGED TO VA. ASSOCIATED CONDUIT AND WIRE SHALL BE DEMOLISHED BACK TO SOURCE.
5. MODIFIED EQUIPMENT. REFERENCE BUILDING 066 ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.

KEY PLAN



SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

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23830 PACIFIC HIGHWAY S. SUITE 300
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SPEESDESIGNBUILD

STAMP

LOUIS R. LITSO — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 004 - LEVEL 00 - ENLARGED ELECTRICAL PLANS

Phase: 100% CONSTRUCTION DOCUMENTS

Approved:

FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER

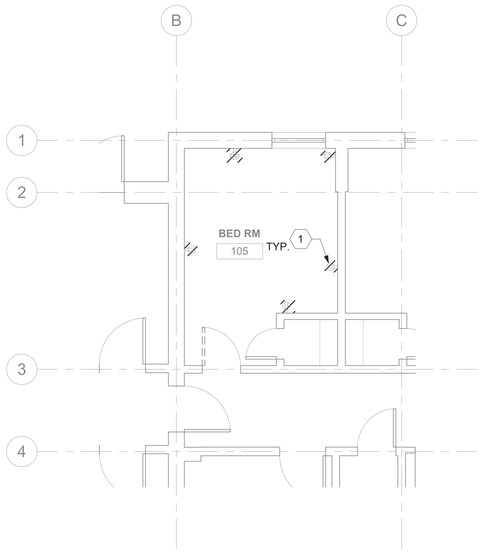
Project Number: 405-22-700

Building Number: 004

Location: VA VT WHITE RIVER JUNCTION
163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009

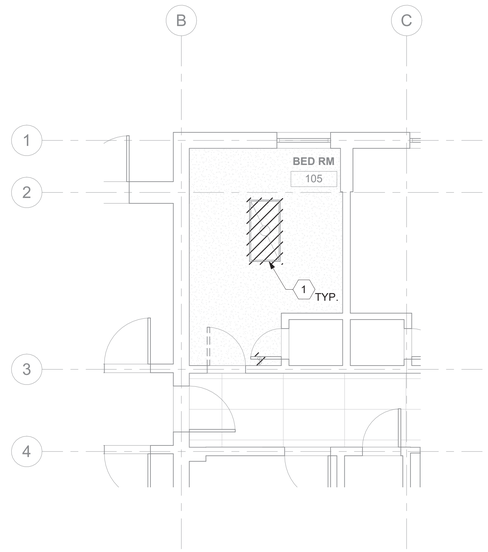
Drawing Number: 004EP400

Issue Date	Checked	Drawn
01/16/2026	NVP/DCW	RTS/KDB



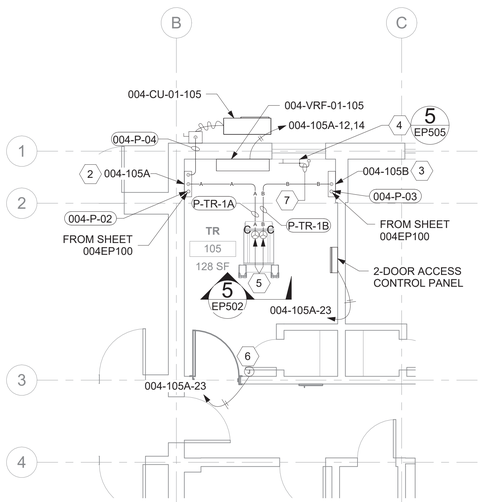
1 004EP100 RM 105 - DEMO ELECTRICAL PLAN

1/4" = 1'-0"



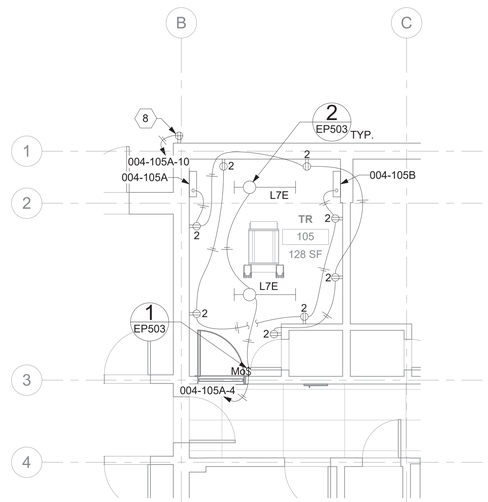
2 004EP100 RM 105 - DEMO LIGHTING PLAN

1/4" = 1'-0"



3 004EP100 RM 105 - ELECTRICAL PLAN

1/4" = 1'-0"



4 004EP100 RM 105 - LIGHTING AND RECEPTACLE PLAN

1/4" = 1'-0"

LEGEND

PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.

- 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
- 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

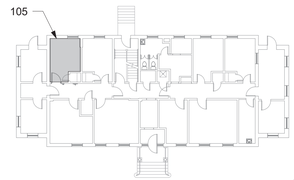
GENERAL NOTES

1. DEMOLITION PLANS/NOTES ARE BASED ON SITE INVESTIGATIONS AND RECORD DRAWINGS. IF DISCREPANCIES ARE FOUND THAT MAY IMPACT WORK, PROMPTLY NOTIFY VA AND ENGINEER OF SAID DISCREPANCY.
2. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL DEMOLISH ALL ELECTRICAL EQUIPMENT, CONDUCTORS AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION, UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BE INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFORM WITH VA STANDARDS.
5. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH EXISTING FIRE RATING OR NEW FIRE RATING, IF REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
6. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
7. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
8. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULL BOX PLACEMENT AND SIZING BY CONTRACTOR. COORDINATE PULL BOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.
9. ALL RECEPTACLES AND SWITCHES SHALL BE PROVIDED WITH PANEL AND CIRCUIT LABELING LOCATED DIRECTLY ON THE WALL PLATE; IE:"P4-1", PANEL "4", CIRCUIT "1". REFERENCE WIRING DEVICE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEY NOTES

1. EXISTING EQUIPMENT SHALL BE DEMOLISHED. ASSOCIATED CONDUIT AND WIRE SHALL BE DEMOLISHED BACK TO SOURCE.
2. SOURCE A POWER PANELBOARD "004-105A".
3. SOURCE B POWER PANELBOARD "004-105B".
4. PROVIDE SECONDARY BONDING BUSBAR. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.
5. OVERHEAD TR RACK SOURCE A AND SOURCE B POWER RECEPTACLE.
6. FURNISH AND INSTALL POWER SUPPLY WITHIN JUNCTION BOX AS INDICATED ABOVE ACCESSIBLE CEILINGS. VERIFY LOCATIONS WITH ARCHITECT. PROVIDE (1) POWER SUPPLY FOR EACH DOOR OPENING. PROVIDE 120V POWER TO SERVE DOORS WITH ELECTRIFIED DOOR HARDWARE AND MAKE CONNECTIONS AS REQUIRED; REFERENCE PANEL SCHEDULE "004-105A" FOR CIRCUITING INFORMATION. SEE REQUIREMENTS IN 08 71 00 - DOOR HARDWARE. COORDINATE WITH ARCHITECT AND DOOR INSTALLER.
7. PROVIDE TBB(S) AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.
8. PROVIDE CONVENIENCE RECEPTACLE, 20A, 120V, GFCI, WR, WITH WHILE-IN-USE COVER.

KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

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STAMP

LOUIS R. LITZKO
STATE OF WASHINGTON
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1-16-26
REGISTERED
PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 004 - LEVEL 01 - ENLARGED ELECTRICAL PLANS	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER	Project Number: 405-22-700
	Building Number: 004
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009	Drawing Number: 004EP401
Issue Date: 01/16/2026 / Checked: NVP/DCW / Drawn: RTS/KDB	

LEGEND
PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.
—A— A— 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
—B— B— 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
- A - - - A - 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
- B - - - B - 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

GENERAL NOTES

1. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL REMOVE ALL ELECTRICAL EQUIPMENT, CONDUCTORS, AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION OF MILLWORK.
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KEY NOTES

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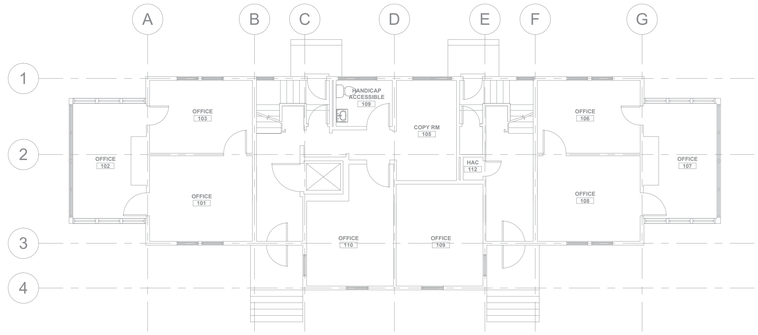
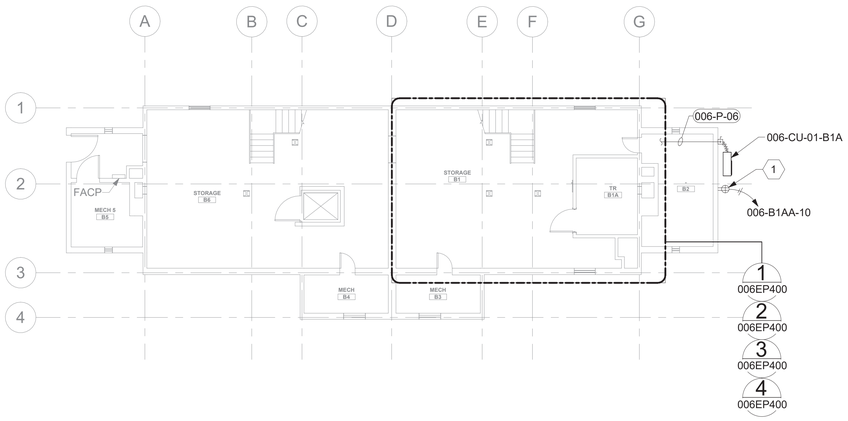
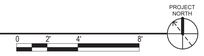
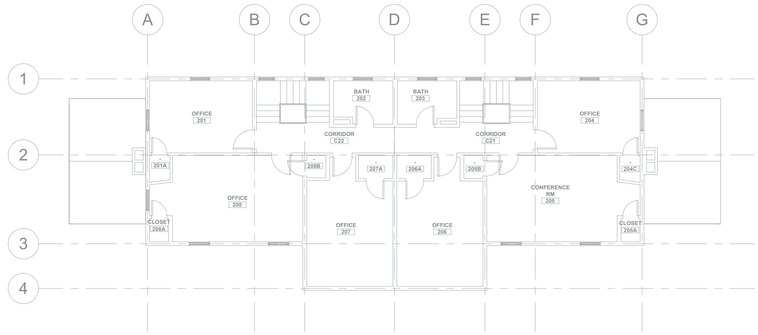


2 / - BLDG 006 - LEVEL 01 - ELECTRICAL PLAN
1/8" = 1'-0"



1 / - BLDG 006 - LEVEL 00 - ELECTRICAL PLAN
1/8" = 1'-0"





3 / - BLDG 006 - LEVEL 02 - ELECTRICAL PLAN
1/8" = 1'-0"

KEY PLAN

KEY AREA SHOWN

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

LOUIS R. LITZAO
STATE OF WASHINGTON
55681
1-16-26
REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

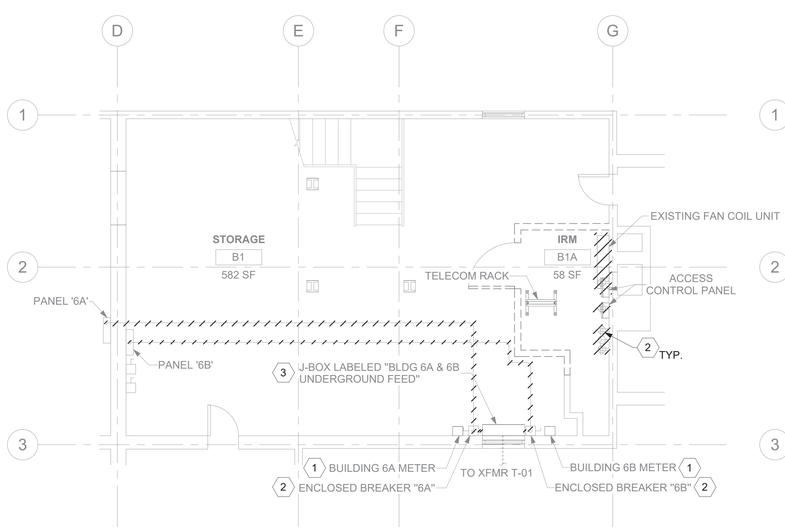
U.S. Department of Veterans Affairs

Drawing Title: BLDG 006 - LEVEL 00, 01 & 02 - ELECTRICAL PLANS	Phase: 100% CONSTRUCTION DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER	Project Number: 405-22-700
			Building Number: 006
Approved:	FULLY SPRINKLERED	Location: VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009	Drawing Number: 006EP100
		Issue Date: 01/16/2026 / Checked: NVP/DCW / Drawn: RTS/KDB	

VA FORM 08 - 6231

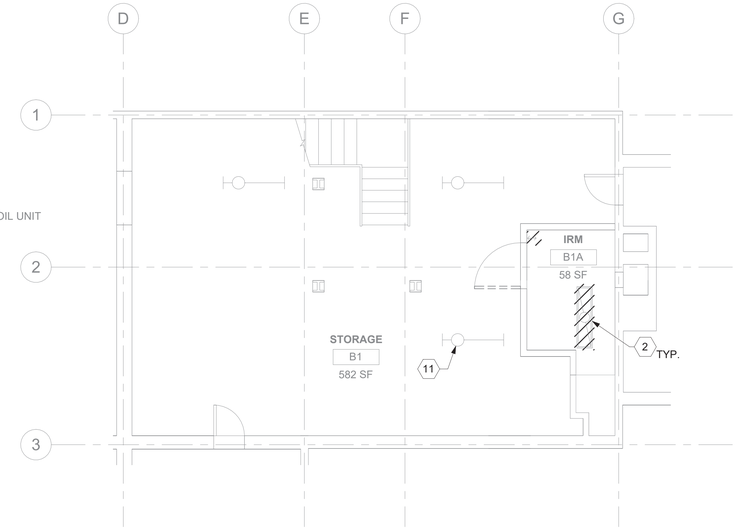
1/16/2026 4:17:32 AM

Autodesk Docs://405-22-700 VA VT White River Junction EHRM IU/VAWR_06_EL_SDB.rvt



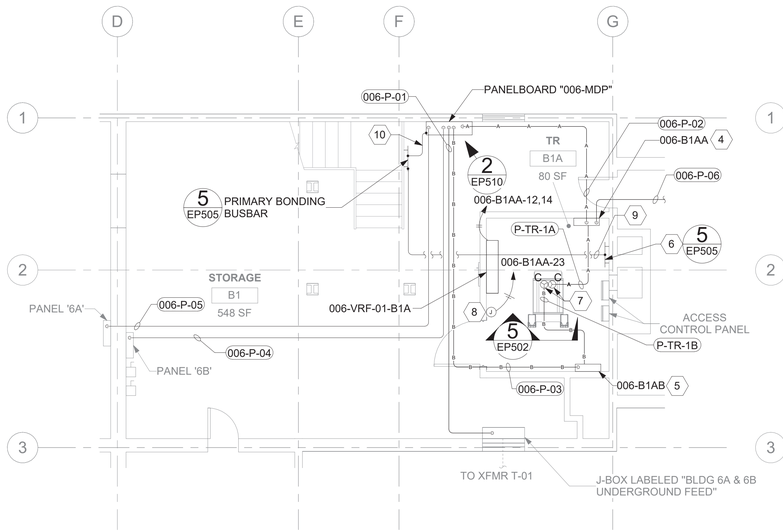
1 006EP100 RM B1A - DEMO ELECTRICAL PLAN

1/4" = 1'-0"



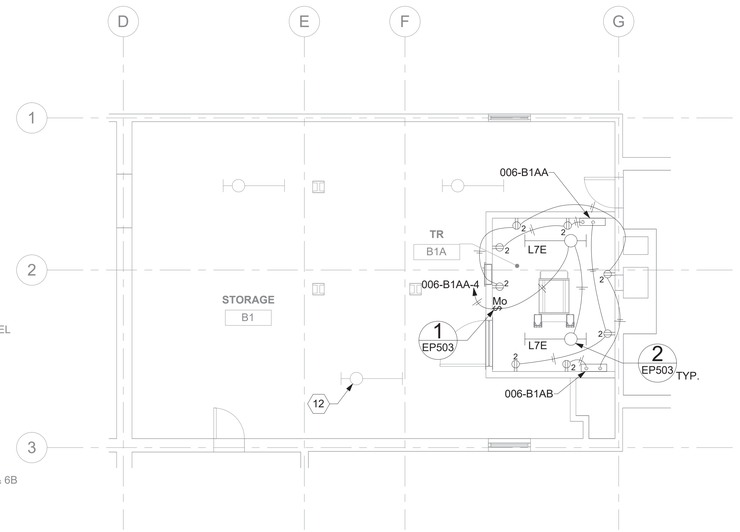
2 006EP100 RM B1A - DEMO LIGHTING PLAN

1/4" = 1'-0"



3 006EP100 RM B1A - ELECTRICAL PLAN

1/4" = 1'-0"



4 006EP100 RM B1A - LIGHTING AND RECEPTACLE PLAN

1/4" = 1'-0"

KEY NOTES

9 PROVIDE TBB(S) AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.

10 PROVIDE TBC AS SHOWN. REFERENCE TELECOM BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.

11 LIGHT FIXTURE SHALL BE RELOCATED AS INDICATED IN DETAIL '4'. RACEWAY AND CONDUCTORS SHALL BE EXTENDED AS REQUIRED.

12 RELOCATED LIGHT FIXTURE.

LEGEND

PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.

- 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
- 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

GENERAL NOTES

1. DEMOLITION PLANS/NOTES ARE BASED ON SITE INVESTIGATIONS AND RECORD DRAWINGS. IF DISCREPANCIES ARE FOUND THAT MAY IMPACT WORK, PROMPTLY NOTIFY VA AND ENGINEER OF SAID DISCREPANCY.
2. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL DEMOLISH ALL ELECTRICAL EQUIPMENT, CONDUCTORS AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION, UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BE INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFORM WITH VA STANDARDS.
5. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH EXISTING FIRE RATING OR NEW FIRE RATING, IF REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
6. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
7. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
8. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULL BOX PLACEMENT AND SIZING BY CONTRACTOR. COORDINATE PULL BOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.
9. ALL RECEPTACLES AND SWITCHES SHALL BE PROVIDED WITH PANEL AND CIRCUIT LABELING LOCATED DIRECTLY ON THE WALL PLATE; IE:"P4-1", PANEL "4", CIRCUIT "1". REFERENCE WIRING DEVICE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEY NOTES

1 SALVAGE EXISTING EQUIPMENT TO VA.

2 EXISTING EQUIPMENT SHALL BE DEMOLISHED. ASSOCIATED CONDUIT AND WIRE SHALL BE DEMOLISHED BACK TO SOURCE.

3 INTERCEPT EXISTING BUILDING FEED WHERE INDICATED. PROVIDE INSULATED TAPS TO EXTEND CONDUIT AND WIRE TO PANELBOARD "006-MDP" AS INDICATED IN DETAIL '3' OF THIS SHEET.

4 SOURCE A POWER PANELBOARD "006-B1AA".

5 SOURCE B POWER PANELBOARD "006-B1AB".

6 PROVIDE SECONDARY BONDING BUSBAR. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.

7 OVERHEAD TR RACK SOURCE A AND SOURCE B POWER RECEPTACLE.

8 FURNISH AND INSTALL POWER SUPPLY WITHIN JUNCTION BOX AS INDICATED ABOVE ACCESSIBLE CEILINGS. VERIFY LOCATIONS WITH ARCHITECT. PROVIDE (1) POWER SUPPLY FOR EACH DOOR OPENING. PROVIDE 120V POWER TO SERVE DOORS WITH ELECTRIFIED DOOR HARDWARE AND MAKE CONNECTIONS AS REQUIRED; REFERENCE PANEL SCHEDULE "006-B1AA" FOR CIRCUITING INFORMATION. SEE REQUIREMENTS IN 08 71 00 - DOOR HARDWARE. COORDINATE WITH ARCHITECT AND DOOR INSTALLER.

KEY PLAN

SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

LOUIS R. UTANO
STATE OF WASHINGTON
55681
1-16-26
REGISTERED
PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 006 - LEVEL 00 - ENLARGED ELECTRICAL PLANS

Approved:

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER

Project Number: 405-22-700

Building Number: 006

Location: VA VT WHITE RIVER JUNCTION
163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009

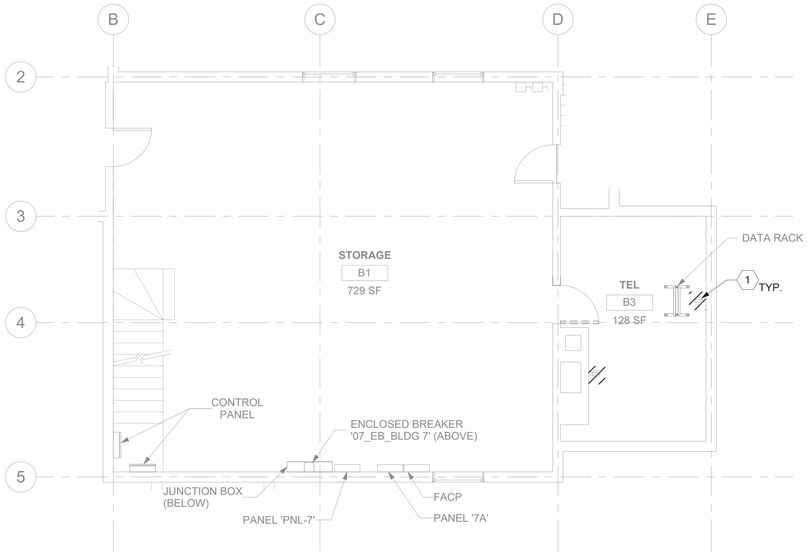
Drawing Number: 006EP400

Issue Date	Checked	Drawn
01/16/2026	NVP/DCW	RTS/KDB

VA FORM 08 - 6231

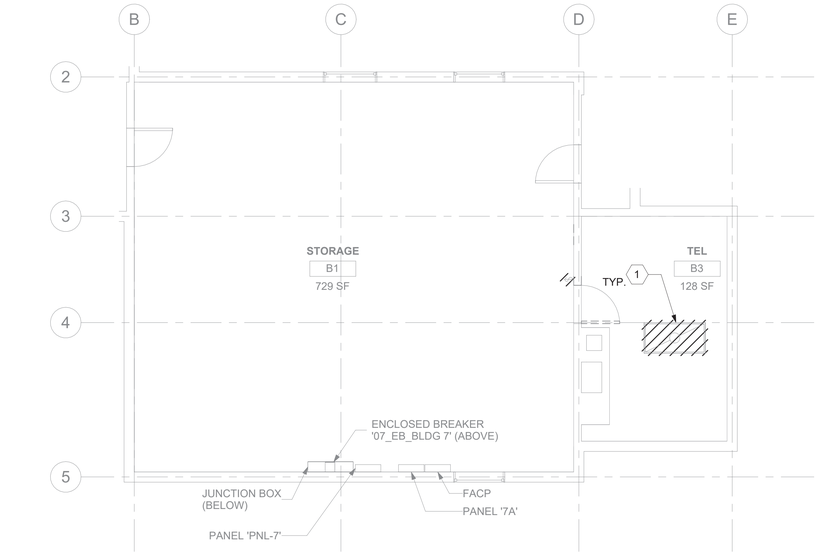
1/16/2026 4:17:36 AM

Autodesk Docs://405-22-700 VA VT White River Junction EHRM IU/VAWR_06_EL_SDB.rvt



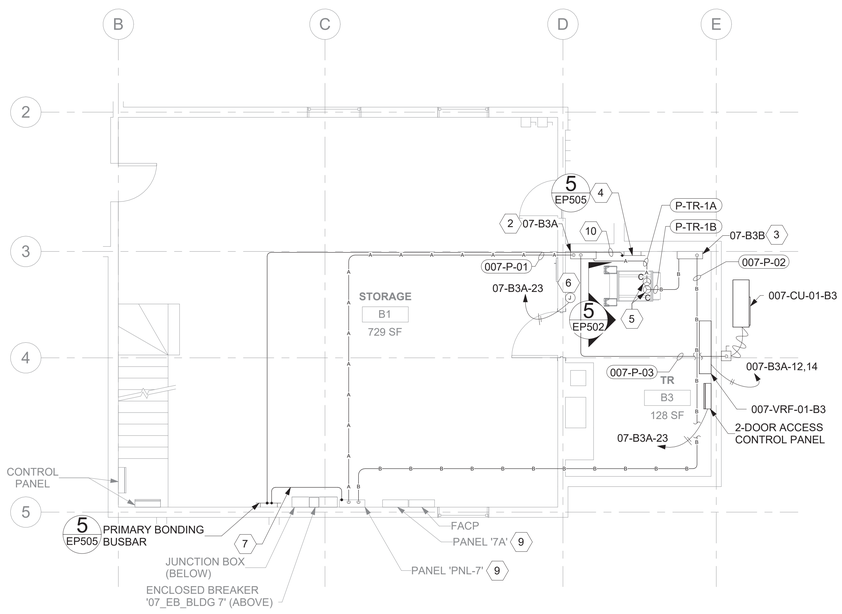
1 RM B1 & B3 - DEMO ELECTRICAL PLAN

1/4" = 1'-0"



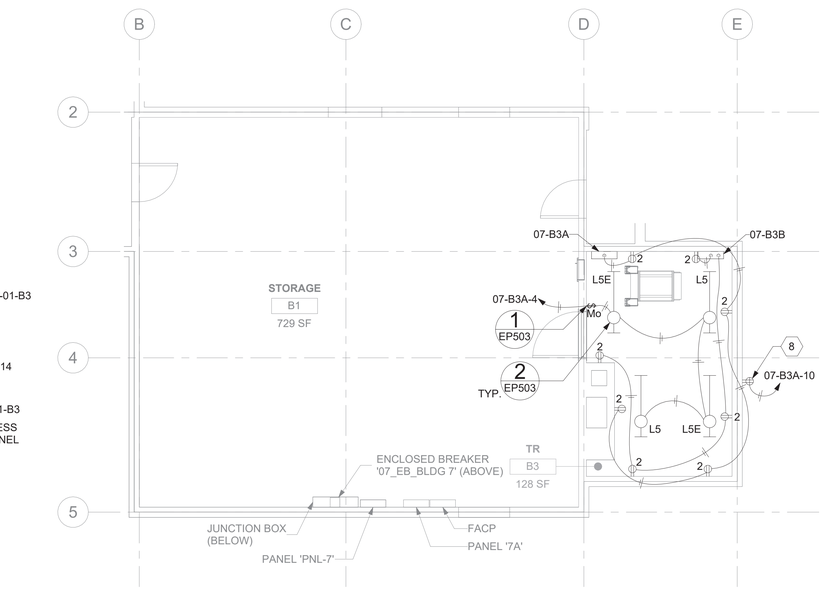
2 RM B1 & B3 - DEMO LIGHTING PLAN

1/4" = 1'-0"



3 RM B1 & B3 - ELECTRICAL PLAN

1/4" = 1'-0"



4 RM B1 & B3 - LIGHTING AND RECEPTACLE PLAN

1/4" = 1'-0"

KEY NOTES

10 PROVIDE TBB(S) AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.

LEGEND

PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.

- 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
- 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

GENERAL NOTES

1. DEMOLITION PLANS/NOTES ARE BASED ON SITE INVESTIGATIONS AND RECORD DRAWINGS. IF DISCREPANCIES ARE FOUND THAT MAY IMPACT WORK, PROMPTLY NOTIFY VA AND ENGINEER OF SAID DISCREPANCY.
2. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
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4. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BE INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFORM WITH VA STANDARDS.
5. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH EXISTING FIRE RATING OR NEW FIRE RATING, IF REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
6. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
7. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
8. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULL BOX PLACEMENT AND SIZING BY CONTRACTOR. COORDINATE PULL BOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.
9. ALL RECEPTACLES AND SWITCHES SHALL BE PROVIDED WITH PANEL AND CIRCUIT LABELING LOCATED DIRECTLY ON THE WALL PLATE; IE:"P4-1", PANEL "4", CIRCUIT "1". REFERENCE WIRING DEVICE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEY NOTES

1 EXISTING EQUIPMENT SHALL BE DEMOLISHED. ASSOCIATED CONDUIT AND WIRE SHALL BE DEMOLISHED BACK TO SOURCE.

2 SOURCE A POWER PANELBOARD "007-B3A".

3 SOURCE B POWER PANELBOARD "007-B3B".

4 PROVIDE SECONDARY BONDING BUSBAR. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.

5 OVERHEAD TR RACK SOURCE A AND SOURCE B POWER RECEPTACLE.

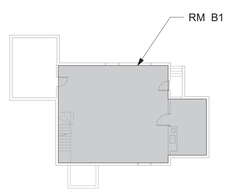
6 FURNISH AND INSTALL POWER SUPPLY WITHIN JUNCTION BOX AS INDICATED ABOVE ACCESSIBLE CEILINGS. VERIFY LOCATIONS WITH ARCHITECT. PROVIDE (1) POWER SUPPLY FOR EACH DOOR OPENING. PROVIDE 120V POWER TO SERVE DOORS WITH ELECTRIFIED DOOR HARDWARE AND MAKE CONNECTIONS AS REQUIRED. REFERENCE PANEL SCHEDULE "007-B3A" FOR CIRCUITING INFORMATION. SEE REQUIREMENTS IN 08 71 00 - DOOR HARDWARE. COORDINATE WITH ARCHITECT AND DOOR INSTALLER.

7 PROVIDE TBC AS SHOWN. REFERENCE TELECOM BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.

8 PROVIDE CONVENIENCE RECEPTACLE, 20A, 120V, GFCI, WR, WITH WHILE-IN-USE COVER.

9 MODIFIED EQUIPMENT. REFERENCE, BUILDING 59 ONE-LINE DIAGRAMS AND PANEL SCHEDULES FOR ADDITIONAL INFORMATION.

KEY PLAN



KEY AREA SHOWN

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SDB SPEESDESIGNBUILD

STAMP

LOUIS R. LITZKE — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

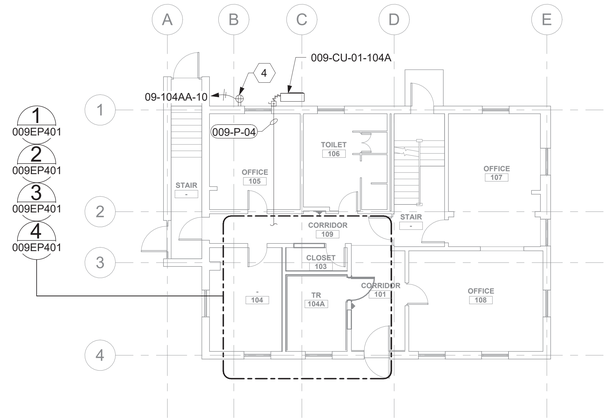
Drawing Title	BLDG 007 - LEVEL 00 - ENLARGED ELECTRICAL PLANS
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Project Number	405-22-700
Building Number	007
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Drawing Number	007EP400
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB

VA FORM 08 - 6231

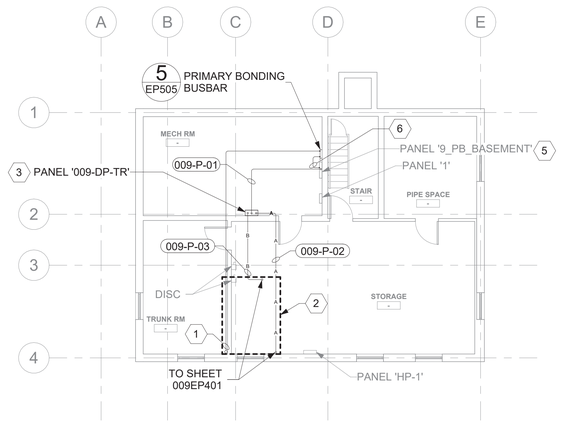
1 16/01/2026 03:55:21

Autodesk Docs://405-22-700 VA VT White River Junction EHRM IU/VAWR_07_EL_SDB.rvt

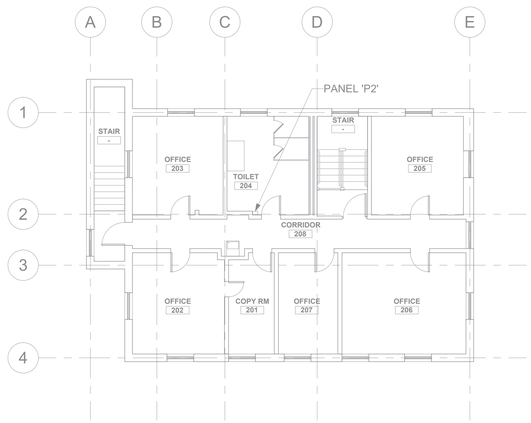
LEGEND
PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.
'A' SIDE POWER, CONCEALED WHERE POSSIBLE
'B' SIDE POWER, CONCEALED WHERE POSSIBLE
'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
'B' SIDE POWER, UNDERGROUND /UNDERFLOOR



2 - BLDG 009 - LEVEL 01 - ELECTRICAL PLAN
1/8" = 1'-0"
PROJECT NORTH
0 4' 8' 16'



1 - BLDG 009 - LEVEL 00 - ELECTRICAL PLAN
1/8" = 1'-0"
PROJECT NORTH
0 4' 8' 16'



3 - BLDG 009 - LEVEL 02 - ELECTRICAL PLAN
1/8" = 1'-0"
PROJECT NORTH
0 4' 8' 16'

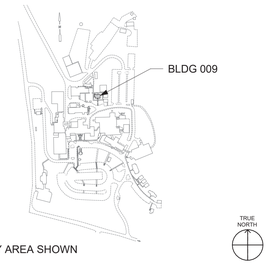
GENERAL NOTES

1. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL REMOVE ALL ELECTRICAL EQUIPMENT, CONDUCTORS, AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION OF MILLWORK.
3. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BE INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFORM WITH VA STANDARDS.
4. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH EXISTING FIRE RATING OR NEW FIRE RATING, IF REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
5. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
6. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
7. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULLBOX PLACEMENT AND SIZING BY CONTACTOR. COORDINATE PULLBOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.

KEY NOTES

1. PROVIDE TBB(S) AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.
2. APPROXIMATE FOOTPRINT OF TR "104A" LOCATED ON FLOOR ABOVE. FEEDERS ROUTE THROUGH VERTICALLY STACKED TR "104A"; REFERENCE ENLARGED ELECTRICAL PLANS 009EP401 FOR ADDITIONAL INFORMATION.
3. PROVIDE EQUIPMENT AS INDICATED. REFERENCE BUILDING 009 ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
4. PROVIDE CONVENIENCE RECEPTACLE, 20A, 120V, GFCI, WR, WITH WHILE-IN-USE COVER.
5. MODIFIED EQUIPMENT. REFERENCE BUILDING 009 ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
6. PROVIDE TBC AS SHOWN. REFERENCE TELECOM BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.

KEY PLAN



KEY AREA SHOWN

Revisions:	Date:
1	16/01/2026 03:56:57

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

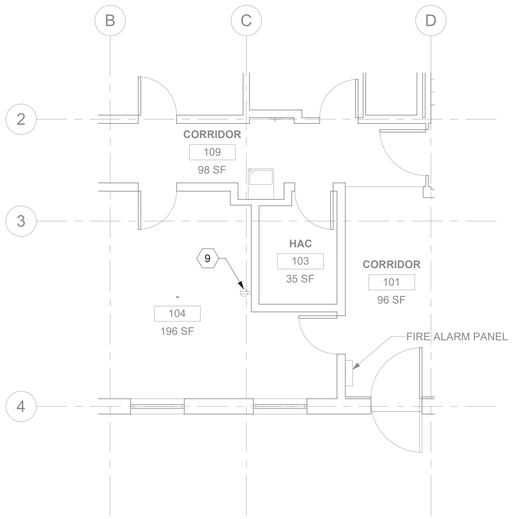
STAMP

LOUIS R. LITZKA — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

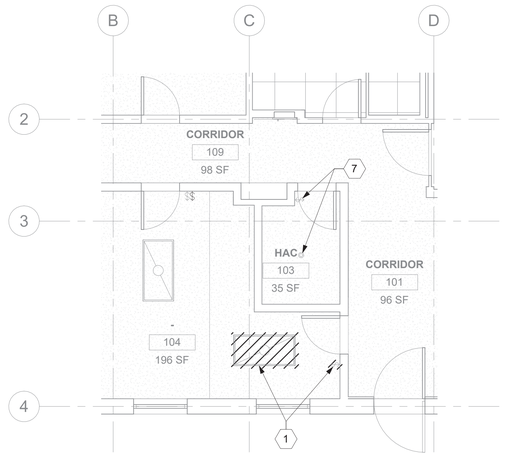
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

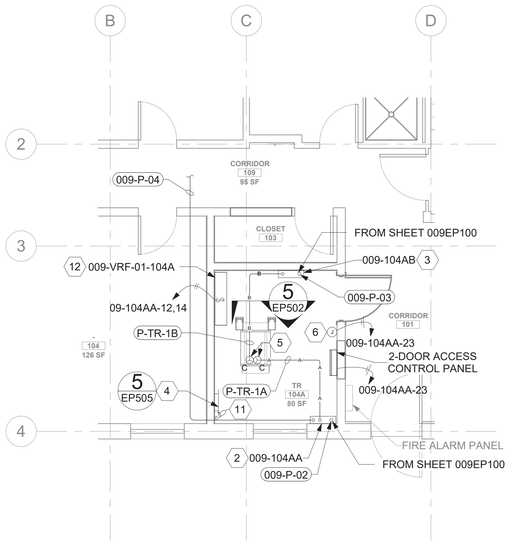
Drawing Title	BLDG 009 - LEVEL 00, 01 & 02 - ELECTRICAL PLAN
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB
Project Number	405-22-700
Building Number	009
Drawing Number	009EP100



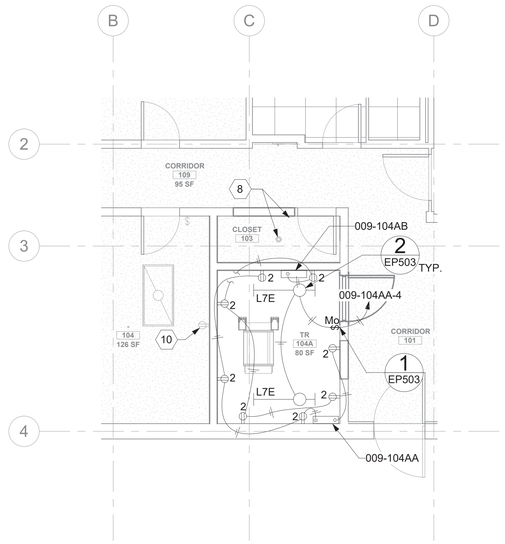
1 RM 103 & 104 - DEMO ELECTRICAL PLAN
009EP100 1/4" = 1'-0"



2 RM 103 & 104 - DEMO LIGHTING PLAN
009EP100 1/4" = 1'-0"



3 RM 104A - ELECTRICAL PLAN
009EP100 1/4" = 1'-0"



4 RM 104A - LIGHTING AND RECEPTACLE PLAN
009EP100 1/4" = 1'-0"

KEY NOTES

10 RELOCATED EQUIPMENT. RE-TERMINATE TO EXISTING BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.

11 PROVIDE TBB(S) AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE. CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.

12 PROVIDE EQUIPMENT WITH MOTOR RATED SWITCH.

LEGEND

PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.

- 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
- 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

GENERAL NOTES

1. DEMOLITION PLANS/NOTES ARE BASED ON SITE INVESTIGATIONS AND RECORD DRAWINGS. IF DISCREPANCIES ARE FOUND THAT MAY IMPACT WORK, PROMPTLY NOTIFY VA AND ENGINEER OF SAID DISCREPANCY.
2. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL DEMOLISH ALL ELECTRICAL EQUIPMENT, CONDUCTORS AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION, UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BE INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFORM WITH VA STANDARDS.
5. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH EXISTING FIRE RATING OR NEW FIRE RATING, IF REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
6. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
7. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
8. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULL BOX PLACEMENT AND SIZING BY CONTRACTOR. COORDINATE PULL BOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.
9. ALL RECEPTACLES AND SWITCHES SHALL BE PROVIDED WITH PANEL AND CIRCUIT LABELING LOCATED DIRECTLY ON THE WALL PLATE; IE:"P4-1", PANEL "4", CIRCUIT "1". REFERENCE WIRING DEVICE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEY NOTES

1 EXISTING EQUIPMENT SHALL BE DEMOLISHED. ASSOCIATED RACEWAYS AND CONDUCTORS SHALL BE DEMOLISHED BACK TO SOURCE. EXTEND EXISTING RACEWAYS AND CONDUCTORS TO MAINTAIN CIRCUITRY TO REMAIN.

2 SOURCE A POWER PANELBOARD "009-104AA".

3 SOURCE B POWER PANELBOARD "009-104AB".

4 PROVIDE SECONDARY BONDING BUSBAR. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.

5 OVERHEAD TR RACK SOURCE A AND SOURCE B POWER RECEPTACLE.

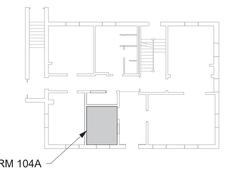
6 FURNISH AND INSTALL POWER SUPPLY WITHIN JUNCTION BOX AS INDICATED ABOVE ACCESSIBLE CEILINGS. VERIFY LOCATIONS WITH ARCHITECT. PROVIDE (1) POWER SUPPLY FOR EACH DOOR OPENING. PROVIDE 120V POWER TO SERVE DOORS WITH ELECTRIFIED DOOR HARDWARE AND MAKE CONNECTIONS AS REQUIRED; REFERENCE PANEL SCHEDULE "009-104AA" FOR CIRCUITING INFORMATION. SEE REQUIREMENTS IN 08 71 00 - DOOR HARDWARE. COORDINATE WITH ARCHITECT AND DOOR INSTALLER.

7 EXISTING ROOM LIGHTING, CONTROL, RACEWAYS, AND CONDUCTORS SHALL BE REUSED AND RELOCATED AS REQUIRED TO MAINTAIN EXISTING LIGHTING CONTROL.

8 RELOCATED ROOM LIGHTING AND CONTROL. EXTEND EXISTING CIRCUITRY RACEWAYS AND CONDUCTORS TO PROVIDE A FULLY FUNCTION LIGHTING SYSTEM FOR CONFERENCE ROOM.

9 EQUIPMENT SHALL BE RELOCATED. PRESERVE AND PROTECT EXISTING BRANCH CIRCUIT FOR RE-TERMINATION.

KEY PLAN



SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

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23830 PACIFIC HIGHWAY S. SUITE 300
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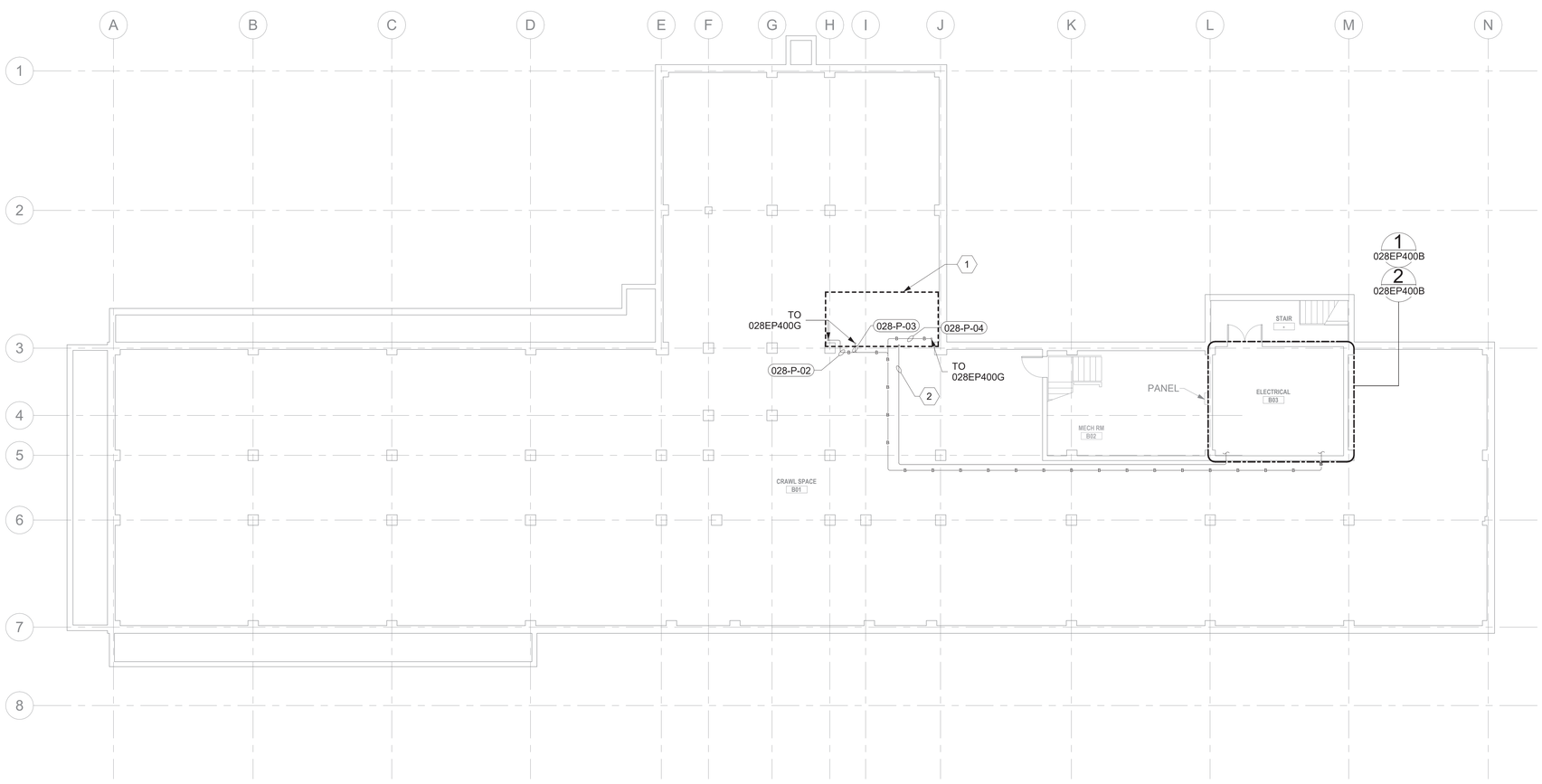
LOUIS R. LUTZKO
STATE OF WASHINGTON
55681
1-16-26
REGISTERED
PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 009 - LEVEL 01 - ENLARGED ELECTRICAL PLANS	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER	Project Number: 405-22-700
	Building Number: 009
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009	Drawing Number: 009EP401
Issue Date: 01/16/2026 / Checked: NVP/DCW / Drawn: RTS/KDB	



1 BLDG 028 - LEVEL 00B - ELECTRICAL PLAN

1/8" = 1'-0"

PROJECT NORTH

0 4' 8' 16'

LEGEND

PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.

- 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
- 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

GENERAL NOTES

1. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
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3. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BE INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFORM WITH VA STANDARDS.
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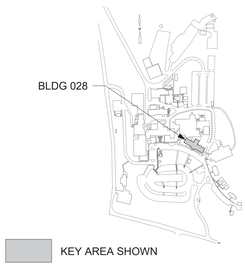
7. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULLBOX PLACEMENT AND SIZING BY CONTACTOR. COORDINATE PULLBOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.

KEY NOTES

1. APPROXIMATE FOOTPRINT OF TR "G31A" LOCATED ON FLOOR ABOVE. FEEDERS ROUTE THROUGH VERTICALLY STACKED TR "G31A", "115A", AND "219"; REFERENCE ENLARGED ELECTRICAL PLANS 028EP400G, 028EP401, AND 028EP402 FOR ADDITIONAL INFORMATION.
2. PROVIDE TBB(S) AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.

KEY PLAN



KEY AREA SHOWN

Revisions:	Date:

CONSULTANT/ DISCIPLINE

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SDB SPEESDESIGNBUILD

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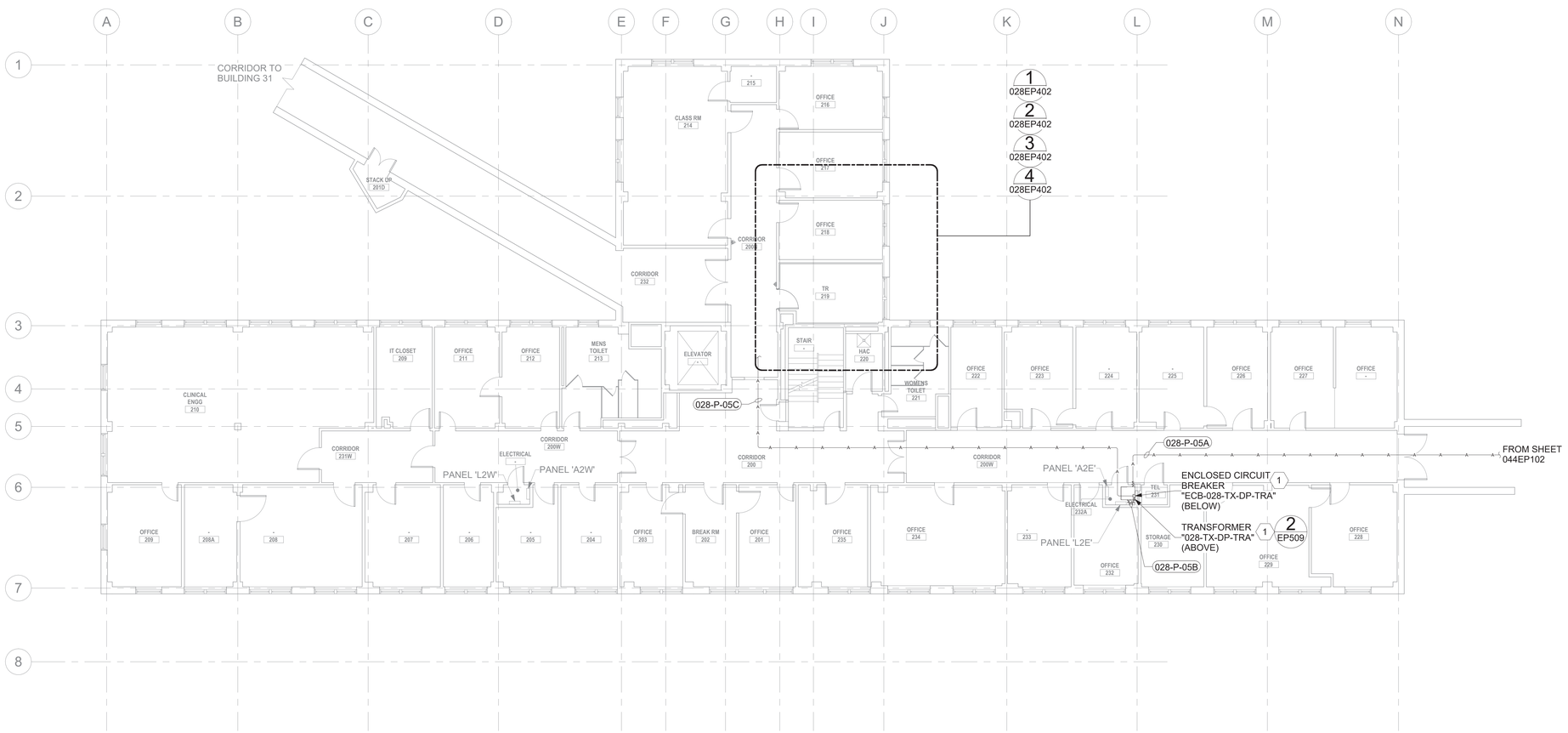
LOUIS R. LITZKO — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	BLDG 028 - LEVEL 00B - ELECTRICAL PLAN
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB
Project Number	405-22-700
Building Number	028
Drawing Number	028EP100B



1 BLDG 028 - LEVEL 02 - ELECTRICAL PLAN

1/8" = 1'-0"

PROJECT NORTH

0 4' 8' 16'

LEGEND
PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.
A A — 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
B B — 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
A A — 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
B B — 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

GENERAL NOTES

1. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL REMOVE ALL ELECTRICAL EQUIPMENT, CONDUCTORS, AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION OF MILLWORK.
3. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BE INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFORM WITH VA STANDARDS.
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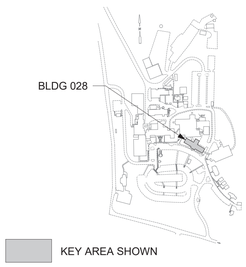
5. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
6. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
7. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULLBOX PLACEMENT AND SIZING BY CONTACTOR. COORDINATE PULLBOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.

KEY NOTES

1. PROVIDE EQUIPMENT AS INDICATED. REFERENCE BUILDING 028 ONE-LINE DIAGRAMS FOR ADDITIONAL INFORMATION.

KEY PLAN



KEY AREA SHOWN

Revisions:	Date:

CONSULTANT/ DISCIPLINE

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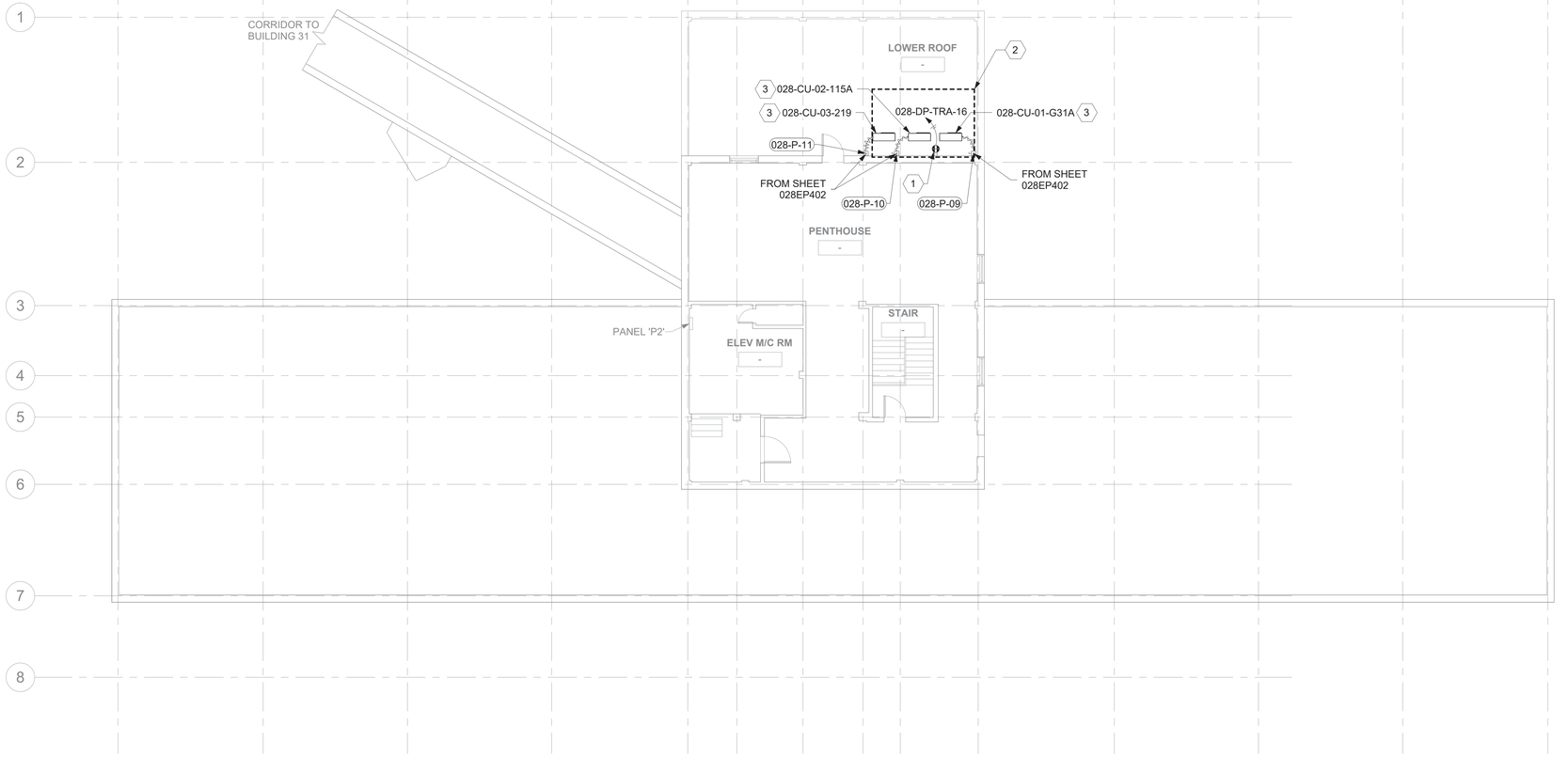
LOUIS R. LITZKE — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	BLDG 028 - LEVEL 02 - ELECTRICAL PLAN
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB
Project Number	405-22-700
Building Number	028
Drawing Number	028EP102



1 BLDG 028 - ATTIC - ELECTRICAL PLAN
1/8" = 1'-0"

PROJECT NORTH

0 4' 8' 16'

LEGEND

PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.

- 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
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GENERAL NOTES

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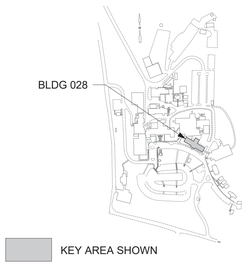
7. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULLBOX PLACEMENT AND SIZING BY CONTACTOR. COORDINATE PULLBOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.

KEY NOTES

1. PROVIDE CONVENIENCE RECEPTACLE, 20A, 120V, GFCI, WR, WITH WHILE-IN-USE COVER.
2. APPROXIMATE FOOTPRINT OF ROOM "217" LOCATED ON FLOOR BELOW. REFERENCE SHEET 028EP402 FOR ADDITIONAL INFORMATION.
3. CONTRACTOR SHALL PROVIDE BOND FROM ROOFTOP MECHANICAL UNIT TO EXISTING BUILDING LIGHTNING PROTECTION SYSTEM ROOFTOP CONDUCTOR. CONTRACTOR SHALL COORDINATE WITH EXISTING BUILDING LIGHTNING PROTECTION SYSTEM AS REQUIRED. REFERENCE DETAIL '3' ON SHEET EP504 FOR ADDITIONAL INFORMATION.

KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE

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1-16-26
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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 028 - ATTIC - ELECTRICAL PLAN

Phase: 100% CONSTRUCTION DOCUMENTS

Approved:

FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER

Project Number: 405-22-700

Building Number: 028

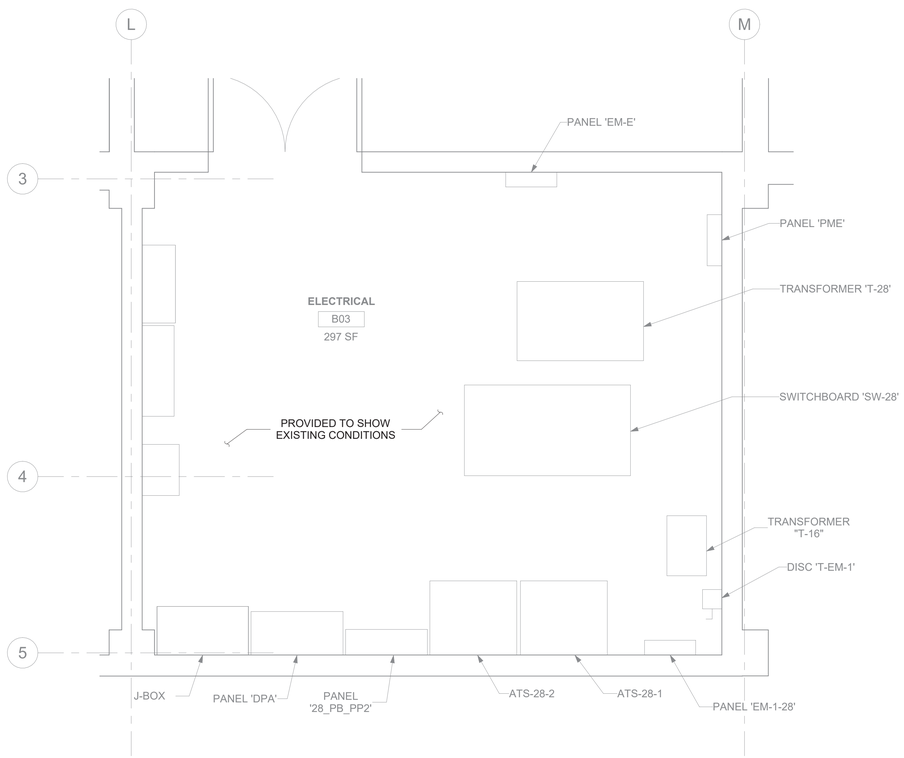
Location: VA VT WHITE RIVER JUNCTION
163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009

Drawing Number: 028EP103

Issue Date: 01/16/2026

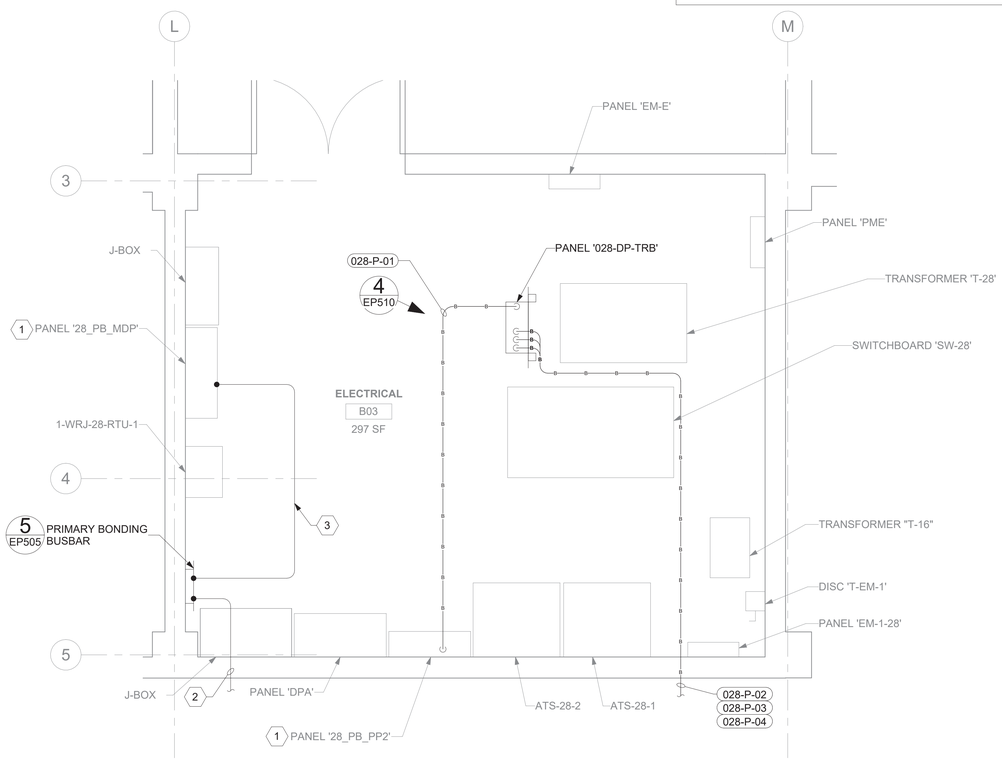
Checked: NVP/DCW

Drawn: RTS/KDB



1 028EP100B RM 4 - DEMO ELECTRICAL PLAN

1/2" = 1'-0"



2 028EP100B RM 4 - ELECTRICAL PLAN

1/2" = 1'-0"

LEGEND

PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.

- 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
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GENERAL NOTES

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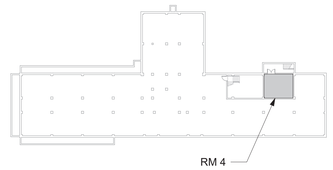
KEY NOTES

1. MODIFIED EQUIPMENT. REFERENCE BUILDING 028 ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
2. PROVIDE TBB(S) AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.
3. PROVIDE TBC AS SHOWN. REFERENCE TELECOM BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.

KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

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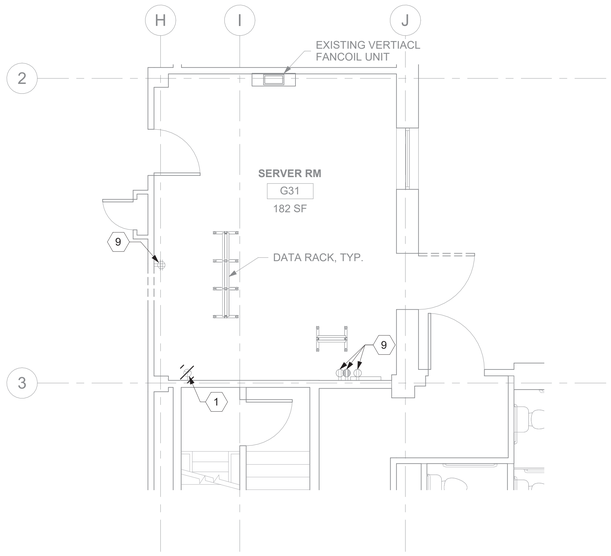
PROFESSIONAL ENGINEER

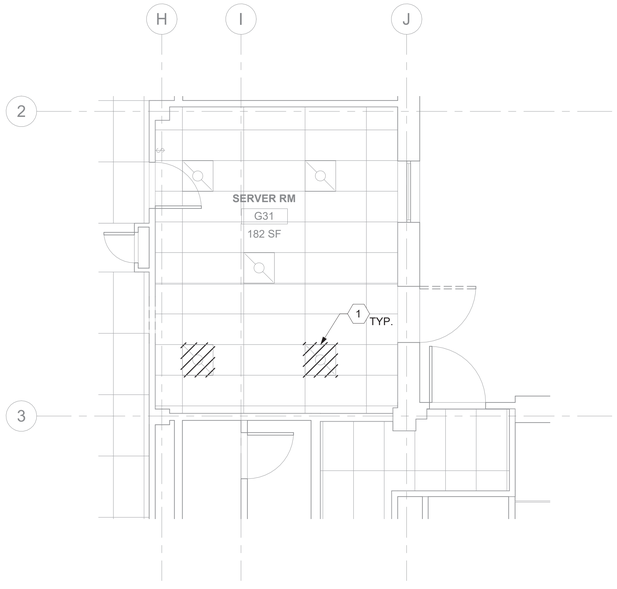
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

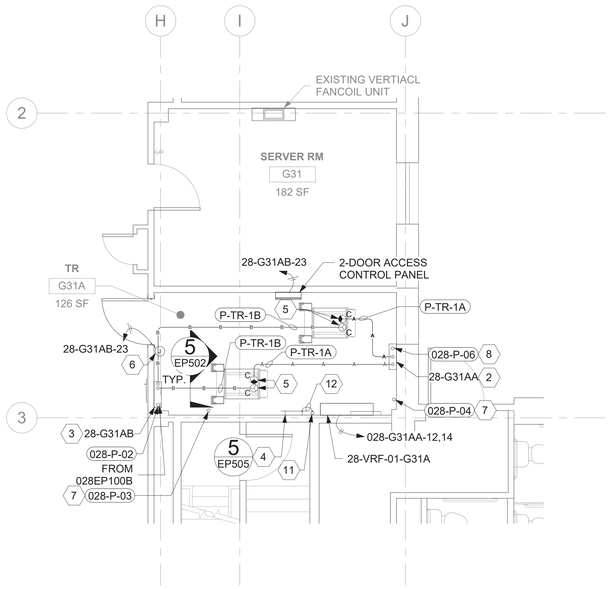
Drawing Title	BLDG 028 - LEVEL 00B - ENLARGED ELECTRICAL PLANS
Approved:	
Phase	100% CONSTRUCTION DOCUMENTS
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB
Project Number	405-22-700
Building Number	028
Drawing Number	028EP400B



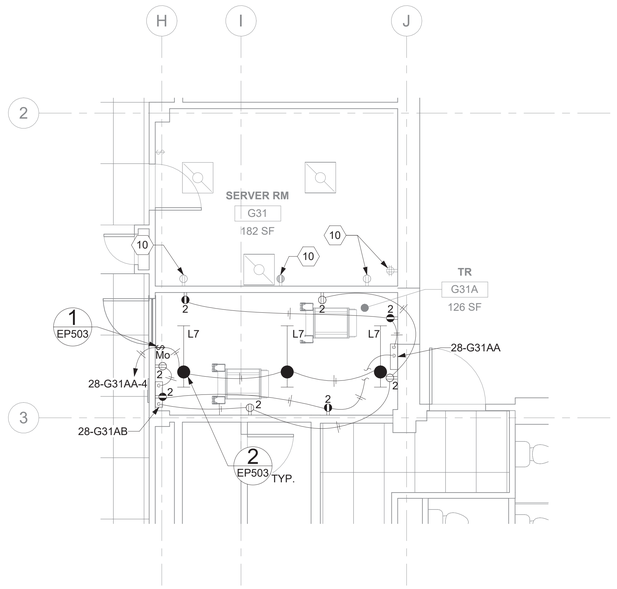
1 — RM G31 - DEMO ELECTRICAL PLAN
1/4" = 1'-0"



2 — RM G31 - DEMO LIGHTING PLAN
1/4" = 1'-0"



3 — RM G31A - ELECTRICAL PLAN
1/4" = 1'-0"



4 — RM G31A - LIGHTING AND RECEPTACLE PLAN
1/4" = 1'-0"

KEY NOTES

9 EQUIPMENT SHALL BE RELOCATED. PRESERVE AND PROTECT EXISTING BRANCH CIRCUIT FOR RE-TERMINATION.

10 RELOCATED EQUIPMENT. RE-TERMINATE TO EXISTING BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.

11 PROVIDE TBB(S) AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.

12 PROVIDE SBC AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.

LEGEND

PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.

- 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
- 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

GENERAL NOTES

1. DEMOLITION PLANS/NOTES ARE BASED ON SITE INVESTIGATIONS AND RECORD DRAWINGS. IF DISCREPANCIES ARE FOUND THAT MAY IMPACT WORK, PROMPTLY NOTIFY VA AND ENGINEER OF SAID DISCREPANCY.
2. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL DEMOLISH ALL ELECTRICAL EQUIPMENT, CONDUCTORS AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION, UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BE INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFORM WITH VA STANDARDS.
5. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH EXISTING FIRE RATING OR NEW FIRE RATING, IF REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
6. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
7. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
8. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULL BOX PLACEMENT AND SIZING BY CONTRACTOR. COORDINATE PULL BOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.
9. ALL RECEPTACLES AND SWITCHES SHALL BE PROVIDED WITH PANEL AND CIRCUIT LABELING LOCATED DIRECTLY ON THE WALL PLATE; IE:"P4-1", PANEL "4", CIRCUIT "1". REFERENCE WIRING DEVICE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEY NOTES

1 EXISTING EQUIPMENT SHALL BE DEMOLISHED. ASSOCIATED RACEWAYS AND CONDUCTORS SHALL BE DEMOLISHED BACK TO SOURCE. EXTEND EXISTING RACEWAYS AND CONDUCTORS TO MAINTAIN CIRCUITRY TO REMAIN.

2 SOURCE A POWER PANELBOARD "28-G31AA".

3 SOURCE B POWER PANELBOARD "28-G31AB".

4 PROVIDE SECONDARY BONDING BUSBAR. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.

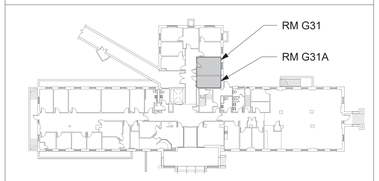
5 OVERHEAD TR RACK SOURCE A AND SOURCE B POWER RECEPTACLE.

6 FURNISH AND INSTALL POWER SUPPLY WITHIN JUNCTION BOX AS INDICATED ABOVE ACCESSIBLE CEILINGS. VERIFY LOCATIONS WITH ARCHITECT. PROVIDE (1) POWER SUPPLY FOR EACH DOOR OPENING. PROVIDE 120V POWER TO SERVE DOORS WITH ELECTRIFIED DOOR HARDWARE AND MAKE CONNECTIONS AS REQUIRED; REFERENCE PANEL SCHEDULE "28-G31AA" FOR CIRCUITING INFORMATION. SEE REQUIREMENTS IN 08 71 00 - DOOR HARDWARE. COORDINATE WITH ARCHITECT AND DOOR INSTALLER.

7 CONDUIT ROUTED VERTICALLY FROM FLOOR BELOW THROUGH TRS TO PROVIDE 'B' SIDE POWER. REFERENCE SHEETS 028EP100B AND 028EP401 FOR ADDITIONAL INFORMATION.

8 CONDUIT ROUTED VERTICALLY FROM FLOOR ABOVE THROUGH TRS TO PROVIDE 'A' SIDE POWER. REFERENCE SHEET 028EP401 FOR ADDITIONAL INFORMATION.

KEY PLAN



SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

LOUIS R. LITZAU — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title: BLDG 028 - LEVEL 00G - ENLARGED ELECTRICAL PLANS

Phase: 100% CONSTRUCTION DOCUMENTS

Approved:

FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER

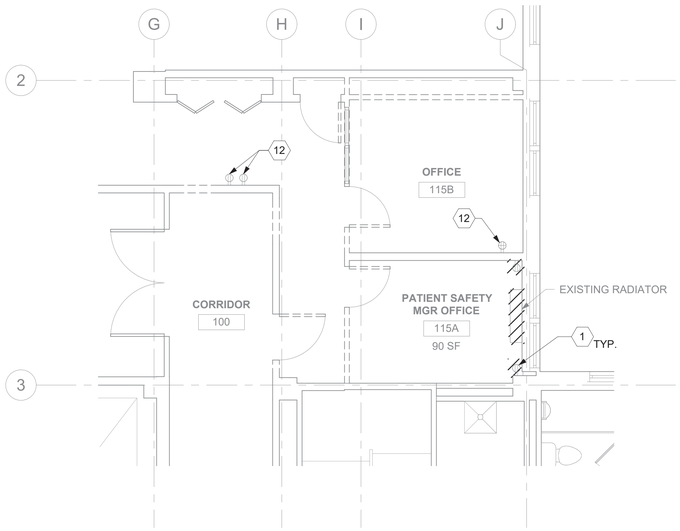
Project Number: 405-22-700

Building Number: 028

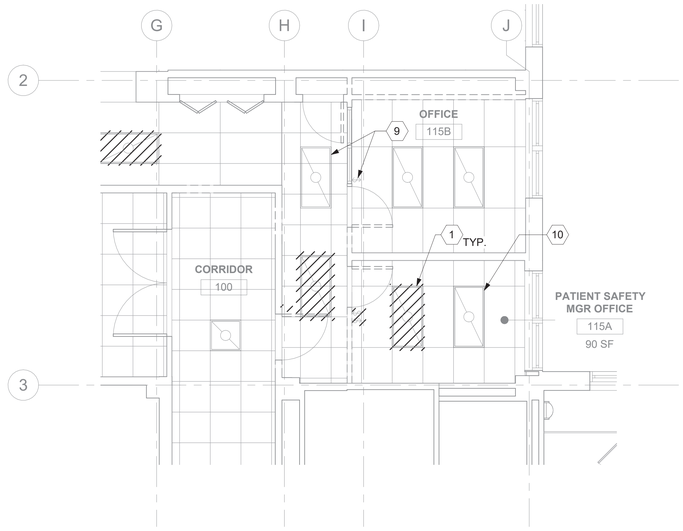
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009

Drawing Number: 028EP400G

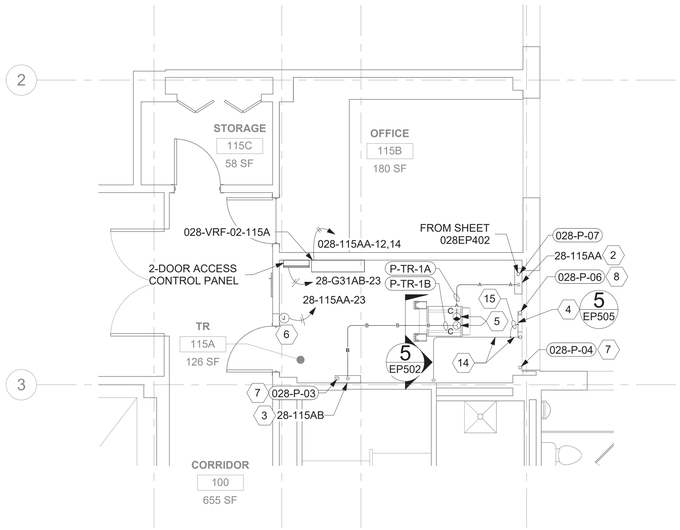
Issue Date: 01/16/2026 | Checked: NVP/DCW | Drawn: RTS/KDB



1 — RM 115A - DEMO ELECTRICAL PLAN
1/4" = 1'-0"



2 — RM 115A - DEMO LIGHTING PLAN
1/4" = 1'-0"



3 — RM 115A - ELECTRICAL PLAN
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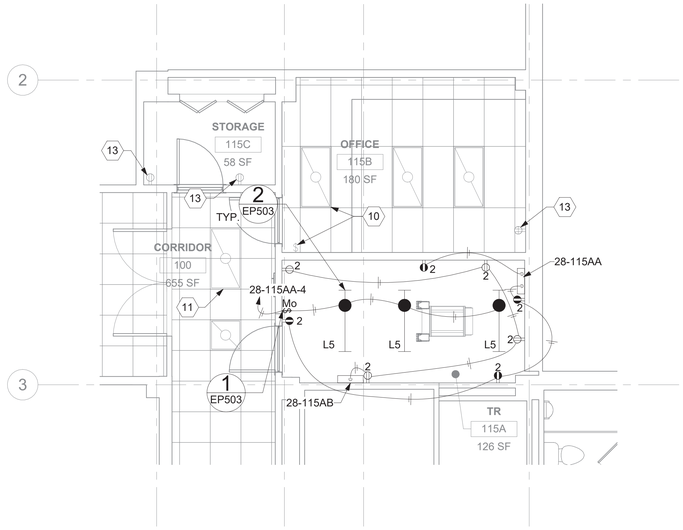

4 — RM 115A - LIGHTING AND RECEPTACLE PLAN
1/4" = 1'-0"

KEY NOTES

9 EXISTING LIGHT FIXTURE SHALL BE REMOVED AND REINSTALLED.

10 INSTALL RELOCATED LIGHT FIXTURE AND LIGHT SWITCH AS SHOWN. PROVIDE CONDUIT AND WIRE TO EXTEND EXISTING ROOM LIGHTING CIRCUIT AS REQUIRED.

11 INSTALL RELOCATED LIGHT FIXTURE. PROVIDE CONDUIT AND WIRE TO EXTEND EXISTING CORRIDOR LIGHTING CIRCUIT AS REQUIRED. REFERENCE DETAIL '4' ON SHEET EP503 FOR ADDITIONAL INFORMATION.

12 EQUIPMENT SHALL BE RELOCATED. PRESERVE AND PROTECT EXISTING BRANCH CIRCUIT FOR RE-TERMINATION.

13 RELOCATED EQUIPMENT. RE-TERMINATE TO EXISTING BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.

14 PROVIDE TBB(S) AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.

15 PROVIDE SBC AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.

LEGEND

PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.

- 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
- 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

GENERAL NOTES

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2. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
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6. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
7. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
8. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULL BOX PLACEMENT AND SIZING BY CONTRACTOR. COORDINATE PULL BOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.
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KEY NOTES

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2 SOURCE A POWER PANELBOARD "28-115AA".

3 SOURCE B POWER PANELBOARD "28-115AB".

4 PROVIDE SECONDARY BONDING BUSBAR. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.

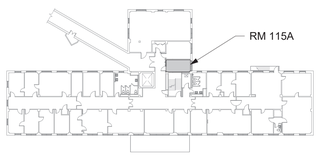
5 OVERHEAD TR RACK SOURCE A AND SOURCE B POWER RECEPTACLE.

6 FURNISH AND INSTALL POWER SUPPLY WITHIN JUNCTION BOX AS INDICATED ABOVE ACCESSIBLE CEILINGS. VERIFY LOCATIONS WITH ARCHITECT. PROVIDE (1) POWER SUPPLY FOR EACH DOOR OPENING. PROVIDE 120V POWER TO SERVE DOORS WITH ELECTRIFIED DOOR HARDWARE AND MAKE CONNECTIONS AS REQUIRED; REFERENCE PANEL SCHEDULE "28-115AA" FOR CIRCUITING INFORMATION. SEE REQUIREMENTS IN 08 71 00 - DOOR HARDWARE.

7 COORDINATE WITH ARCHITECT AND DOOR INSTALLER. CONDUIT ROUTED VERTICALLY FROM FLOOR BELOW THROUGH TRS TO PROVIDE 'B' SIDE POWER. REFERENCE SHEETS 028EP400G AND 028EP402 FOR ADDITIONAL INFORMATION.

8 CONDUIT ROUTED VERTICALLY FROM FLOOR ABOVE THROUGH TRS TO PROVIDE 'A' SIDE POWER. REFERENCE SHEETS 028EP400G AND 028EP402 FOR ADDITIONAL INFORMATION.

KEY PLAN



SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

LOUIS R. LITZKO — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title: BLDG 028 - LEVEL 01 - ENLARGED ELECTRICAL PLANS

Phase: 100% CONSTRUCTION DOCUMENTS

Approved:

FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER

Project Number: 405-22-700

Building Number: 028

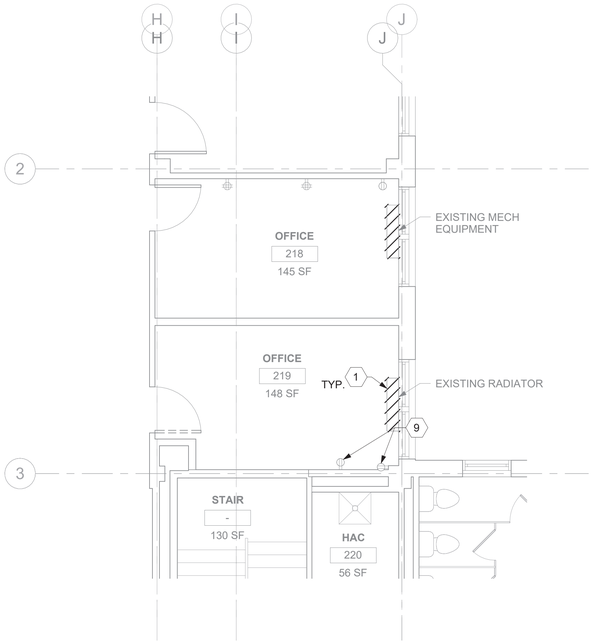
Location: VA VT WHITE RIVER JUNCTION
163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009

Drawing Number: 028EP401

Issue Date: 01/16/2026

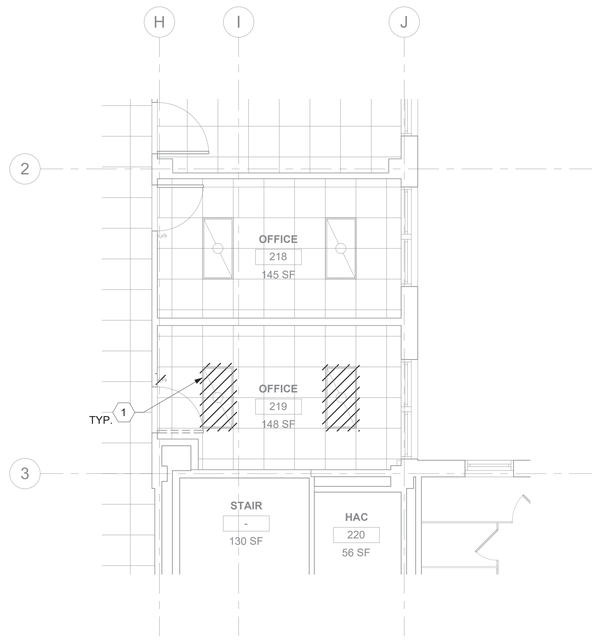
Checked: NVP/DCW

Drawn: RTS/KDB



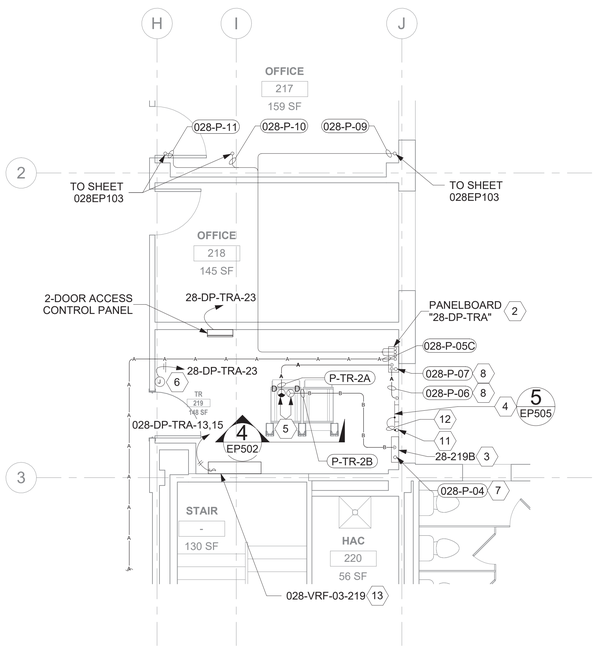
1 028EP102 RM 219 - DEMO ELECTRICAL PLAN

1/4" = 1'-0"



2 028EP102 RM 219 - DEMO LIGHTING PLAN

1/4" = 1'-0"



3 028EP102 RM 219 - ELECTRICAL PLAN

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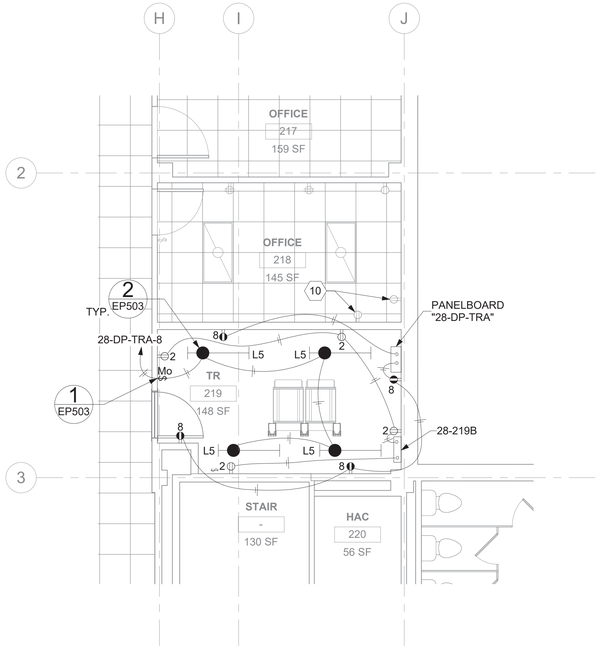

4 028EP102 RM 219 - LIGHTING AND RECEPTACLE PLAN

1/4" = 1'-0"

KEY NOTES

10 RELOCATED EQUIPMENT. RE-TERMINATE TO EXISTING BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.

11 PROVIDE TBB(S) AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.

12 PROVIDE SBC AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.

13 PROVIDE EQUIPMENT WITH MOTOR RATED SWITCH.

LEGEND

PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.

- 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
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2 SOURCE A POWER PANELBOARD "028-DP-TRA".

3 SOURCE B POWER PANELBOARD "28-219B".

4 PROVIDE SECONDARY BONDING BUSBAR. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.

5 OVERHEAD TR RACK SOURCE A AND SOURCE B POWER RECEPTACLE.

6 FURNISH AND INSTALL POWER SUPPLY WITHIN JUNCTION BOX AS INDICATED ABOVE ACCESSIBLE CEILINGS. VERIFY LOCATIONS WITH ARCHITECT. PROVIDE (1) POWER SUPPLY FOR EACH DOOR OPENING. PROVIDE 120V POWER TO SERVE DOORS WITH ELECTRIFIED DOOR HARDWARE AND MAKE CONNECTIONS AS REQUIRED; REFERENCE PANEL SCHEDULE "28-219A" FOR CIRCUITING INFORMATION. SEE REQUIREMENTS IN 08 71 00 - DOOR HARDWARE. COORDINATE WITH ARCHITECT AND DOOR INSTALLER.

7 CONDUIT ROUTED VERTICALLY FROM FLOOR BELOW THROUGH TRS TO PROVIDE 'B' SIDE POWER. REFERENCE SHEET 028EP401 FOR ADDITIONAL INFORMATION.

8 CONDUIT ROUTED VERTICALLY TO FLOOR BELOW THROUGH TRS TO PROVIDE 'A' SIDE POWER. REFERENCE SHEET 028EP401 FOR ADDITIONAL INFORMATION.

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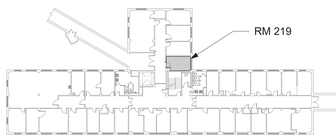
KEY PLAN



SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

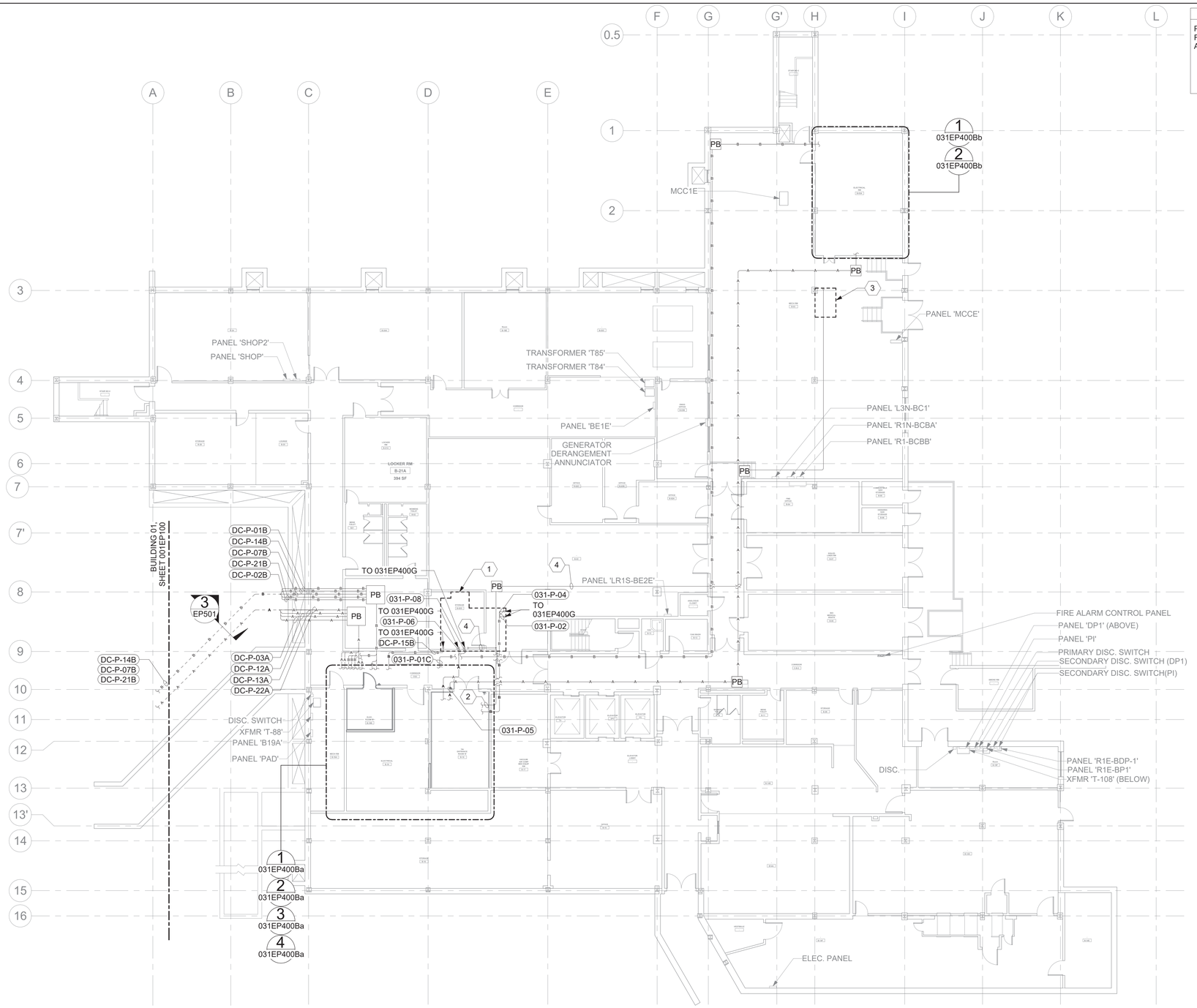
LOUIS R. LITZAU — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 028 - LEVEL 02 - ENLARGED ELECTRICAL PLANS	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER		Project Number: 405-22-700
		Building Number: 028
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009		Drawing Number: 028EP402
Issue Date: 01/16/2026	Checked: NVP/DCW	Drawn: RTS/KDB



1 BLDG 031 - LEVEL 00B - ELECTRICAL PLAN

3/32" = 1'-0"

PROJECT NORTH

0 8' 16' 24'

LEGEND

PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.

- 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
- 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

GENERAL NOTES

1. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
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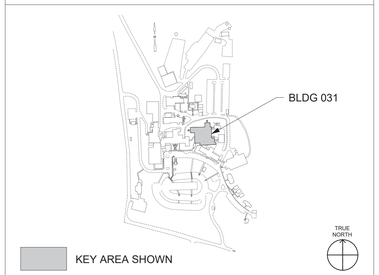
4. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH EXISTING FIRE RATING OR NEW FIRE RATING, IF REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
5. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
6. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
7. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULLBOX PLACEMENT AND SIZING BY CONTACTOR. COORDINATE PULLBOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.

KEY NOTES

1. APPROXIMATE FOOTPRINT OF TR "G12" LOCATED ON FLOORS ABOVE. FEEDERS ROUTE THROUGH VERTICALLY STACKED TR "G12" ; REFERENCE ENLARGED ELECTRICAL PLANS 031EP400G FOR ADDITIONAL INFORMATION.
2. PROVIDE SBC AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.
3. APPROXIMATE FOOTPRINT OF ROOM "G51" LOCATED ON FLOOR ABOVE. REFERENCE SHEET 031EP100G FOR ADDITIONAL INFORMATION.
4. PROVIDE TBB(S) AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.

KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

LOUIS R. UTZAO
STATE OF WASHINGTON
55681
1-16-26
REGISTERED
PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 031 - LEVEL 00B - ELECTRICAL PLAN	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER	Project Number: 405-22-700
	Building Number: 031
Location: VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009	Drawing Number: 031EP100B

Issue Date	Checked	Drawn
01/16/2026	NVP/DCW	RTS/KDB

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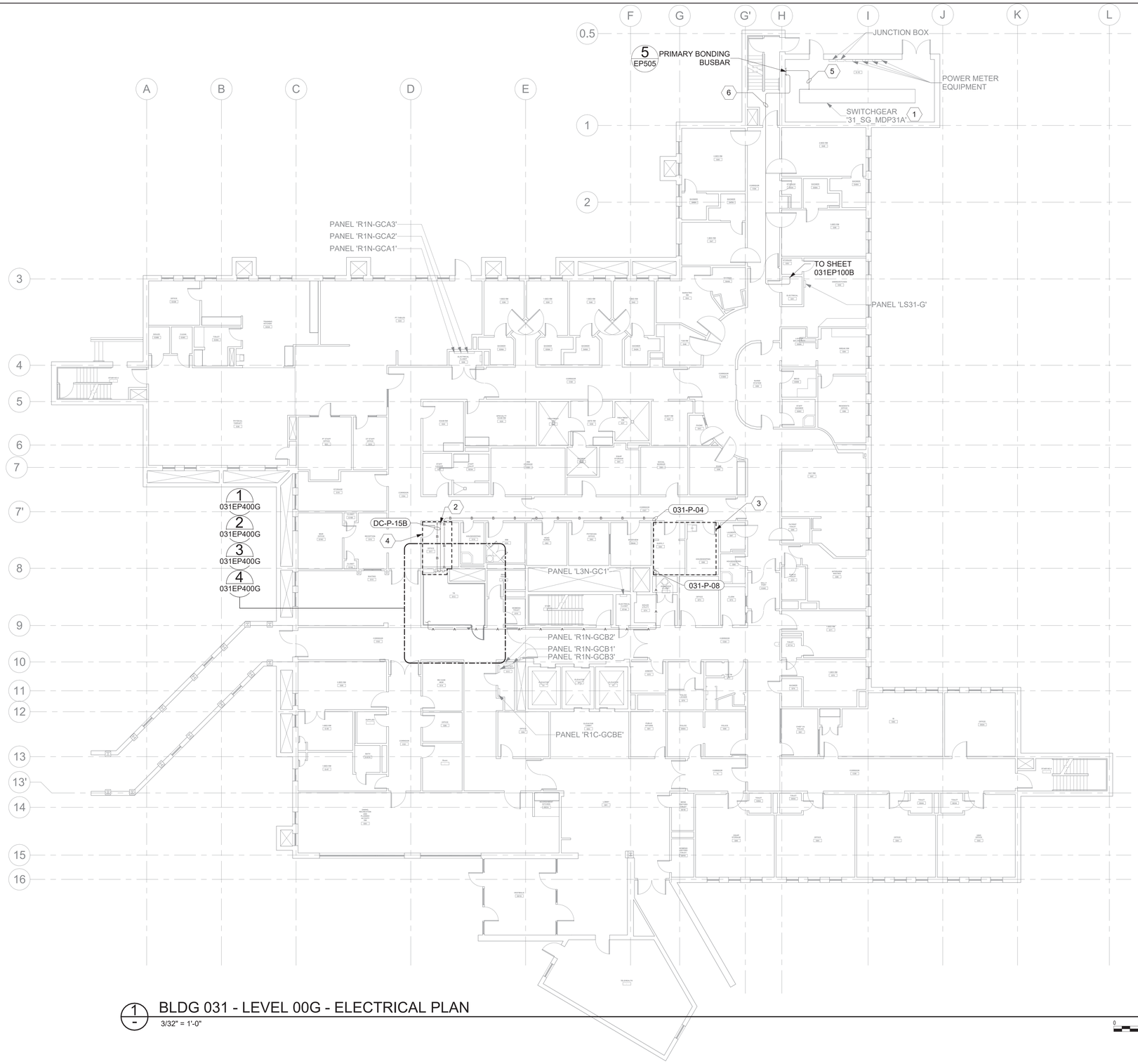
1 1/16/2026 4:10:18 AM

Autodesk Docs://405-22-700 VA VT White River Junction EHRM IU/VAWR_31_EL_SDB.rvt



1 BLDG 031 - LEVEL 00G - ELECTRICAL PLAN
3/32" = 1'-0"

PROJECT NORTH

0 8' 16' 24'

LEGEND
PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.
'A' SIDE POWER, CONCEALED WHERE POSSIBLE
'B' SIDE POWER, CONCEALED WHERE POSSIBLE
'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

GENERAL NOTES

1. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL REMOVE ALL ELECTRICAL EQUIPMENT, CONDUCTORS, AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION OF MILLWORK.
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4. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH EXISTING FIRE RATING OR NEW FIRE RATING, IF REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
5. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
6. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
7. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULLBOX PLACEMENT AND SIZING BY CONTACTOR. COORDINATE PULLBOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.

KEY NOTES

1. MODIFIED SWITCHGEAR. REFERENCE BUILDING 031 ONE-LINE DIAGRAMS FOR ADDITIONAL INFORMATION.
2. PROVIDE TBB(S) AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.
3. APPROXIMATE FOOTPRINT OF ROOM "153" LOCATED ON FLOOR ABOVE. REFERENCE SHEET 031EP101 FOR ADDITIONAL INFORMATION.
4. APPROXIMATE FOOTPRINT OF ROOM "139" LOCATED ON FLOOR ABOVE. REFERENCE SHEET 031EP101 FOR ADDITIONAL INFORMATION.
5. PROVIDE TBC AS SHOWN. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.
6. PROVIDE TBB AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.

KEY PLAN

KEY AREA SHOWN

Revisions:	Date:
1	1/16/2026 4:10:21 AM

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
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SPEESDESIGNBUILD

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REGISTERED
PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 031 - LEVEL 00G - ELECTRICAL PLAN

Approved:

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER

Location: VA VT WHITE RIVER JUNCTION
163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009

Issue Date: 01/16/2026

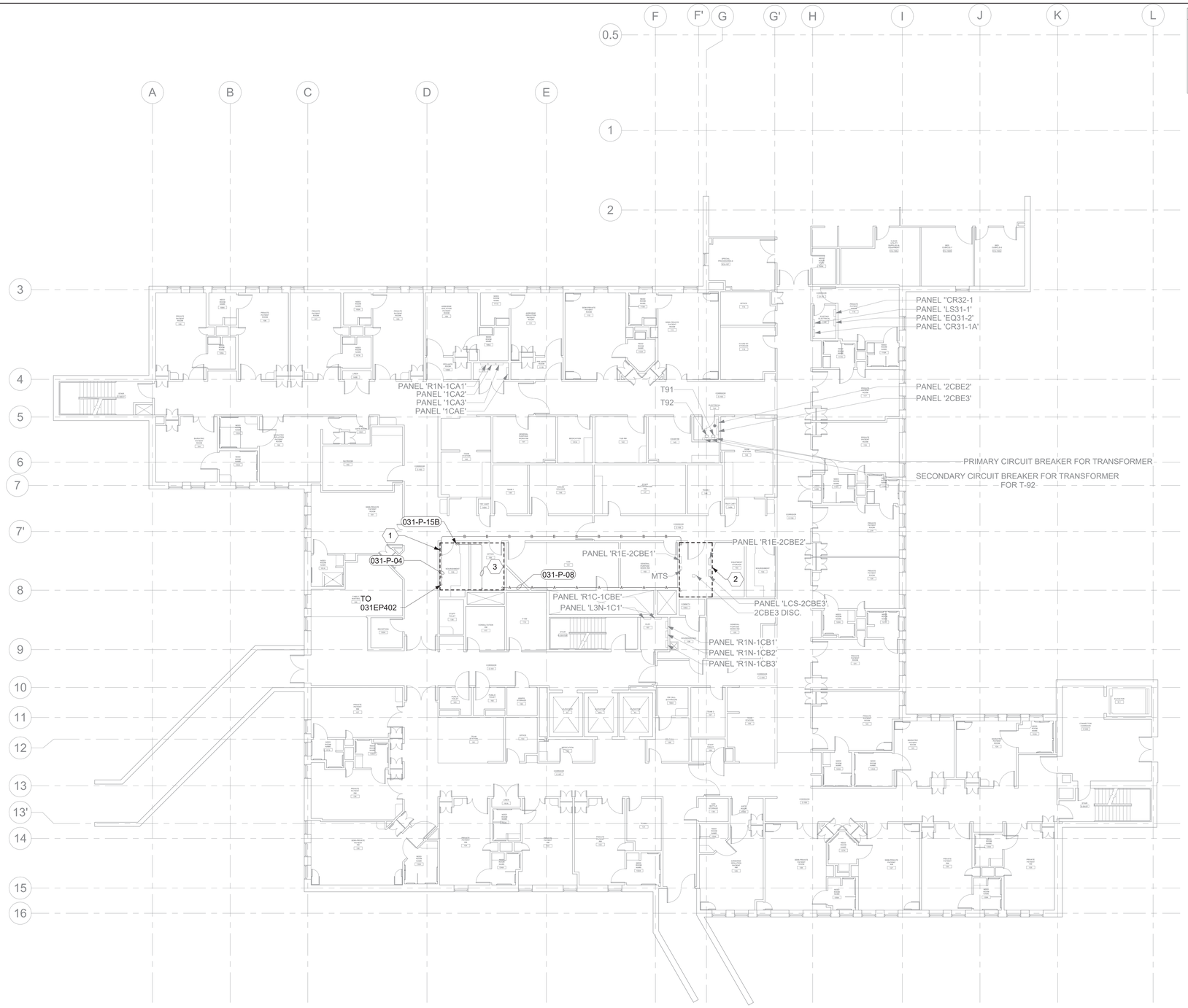
Checked: NVP/DCW

Drawn: RTS/KDB

Project Number: 405-22-700

Building Number: 031

Drawing Number: 031EP100G



BLDG 031 - LEVEL 01 - ELECTRICAL PLAN

3/32" = 1'-0"

PROJECT NORTH

0 8' 16' 24'

LEGEND

PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.

- 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
- 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

GENERAL NOTES

1. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL REMOVE ALL ELECTRICAL EQUIPMENT, CONDUCTORS, AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION OF MILLWORK.
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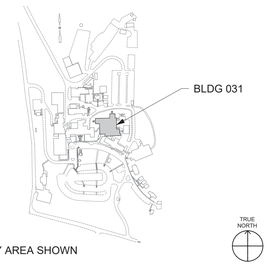
7. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULLBOX PLACEMENT AND SIZING BY CONTACTOR. COORDINATE PULLBOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.

KEY NOTES

1. APPROXIMATE FOOTPRINT OF TR "226" LOCATED ON FLOOR ABOVE. FEEDERS ROUTE THROUGH VERTICALLY STACKED TR "226". REFERENCE SHEET 031EP102 FOR ADDITIONAL INFORMATION.
2. APPROXIMATE FOOTPRINT OF ROOM "G64" LOCATED ON FLOOR BELOW. REFERENCE SHEET 031EP100G FOR ADDITIONAL INFORMATION.
3. PROVIDE TBB(S) AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.

KEY PLAN



KEY AREA SHOWN

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SDB SPEESDESIGNBUILD

STAMP

LOUIS R. LITZAU — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 031 - LEVEL 01 - ELECTRICAL PLAN	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER		Project Number: 405-22-700
		Building Number: 031
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009		Drawing Number: 031EP101
Issue Date: 01/16/2026	Checked: NVP/DCW	Drawn: RTS/KDB

VA FORM 08 - 6231

1 1/16/2026 4:10:24 AM

Autodesk Docs://405-22-700 VA VT White River Junction EHRM IU/VAWR_31_EL_SDB.rvt

1 / - BLDG 031 - LEVEL 02 - ELECTRICAL PLAN

3/32" = 1'-0"

PROJECT NORTH

0 8' 16' 24'

LEGEND

PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.

- 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
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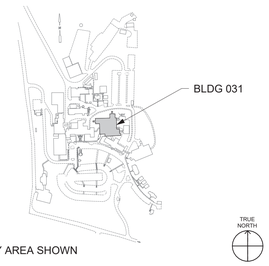
KEY NOTES

KEY PLAN



KEY AREA SHOWN

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
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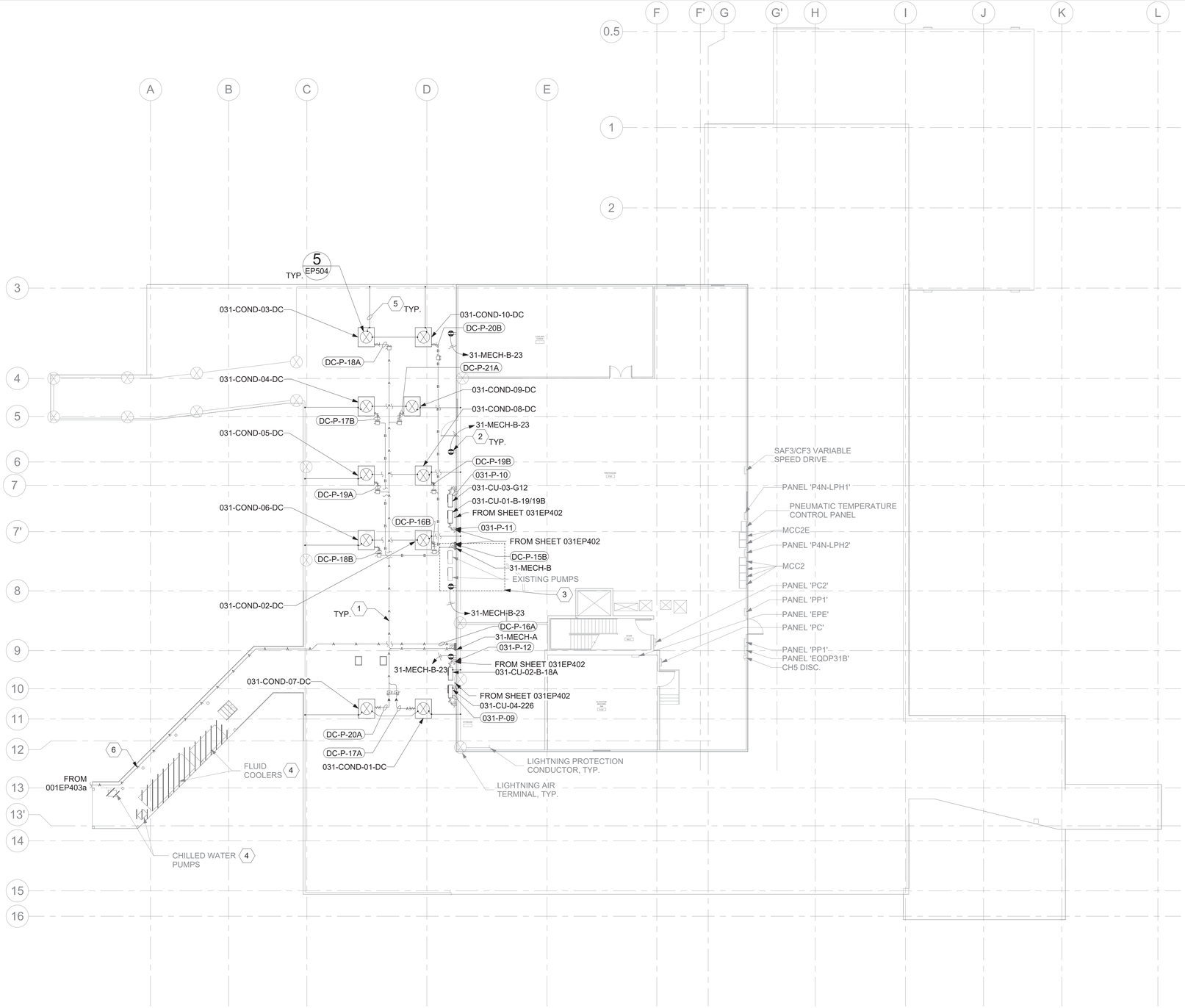
PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 031 - LEVEL 02 - ELECTRICAL PLAN	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER		Project Number: 405-22-700
		Building Number: 031
Location: VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009		Drawing Number: 031EP102
Issue Date: 01/16/2026	Checked: NVP/DCW	Drawn: RTS/KDB



1 BLDG 031 - PENTHOUSE A - ELECTRICAL PLAN

3/32" = 1'-0"

PROJECT NORTH

0 8' 16' 24'

LEGEND

PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.

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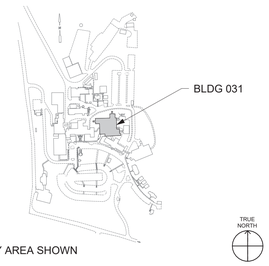
KEY NOTES

1. PROVIDE STRUT SUPPORT FOR EQUIPMENT RACEWAYS, SUPPORT SPACING SHALL BE PER NEC; AVOID TRIPPING HAZARDS. STRUT SHALL BE HOT-DIPPED GALVANIZED; ALL FASTENING HARDWARE SHALL BE STAINLESS TEEL.
2. PROVIDE CONVENIENCE RECEPTACLE, 20A, 120V, GFCI, WR, WITH WHILE-IN-USE COVER.
3. APPROXIMATE FOOTPRINT OF TR "226" LOCATED ON FLOOR BELOW. CONDUIT(S) ROUTE VERTICALLY FROM FLOOR BELOW. REFERENCE SHEET 031EP102 FOR ADDITIONAL INFORMATION.
4. EXISTING EQUIPMENT SHALL BE DEMOLISHED. ASSOCIATED CONDUIT AND WIRE SHALL BE DEMOLISHED BACK TO SOURCE.
5. CONTRACTOR SHALL PROVIDE BOND FROM ROOFTOP MECHANICAL UNIT TO EXISTING BUILDING LIGHTNING PROTECTION SYSTEM ROOFTOP CONDUCTOR. CONTRACTOR SHALL COORDINATE WITH EXISTING BUILDING LIGHTNING PROTECTION SYSTEM AS REQUIRED. REFERENCE DETAIL '3' ON SHEET EP504 FOR ADDITIONAL INFORMATION.
6. RACEWAY SHALL BE ROUTED ON EXISTING METAL PLATFORM. PROVIDE STAINLESS STEEL FASTENING HARDWARE AS REQUIRED.

KEY PLAN



KEY AREA SHOWN

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
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SPEESDESIGNBUILD

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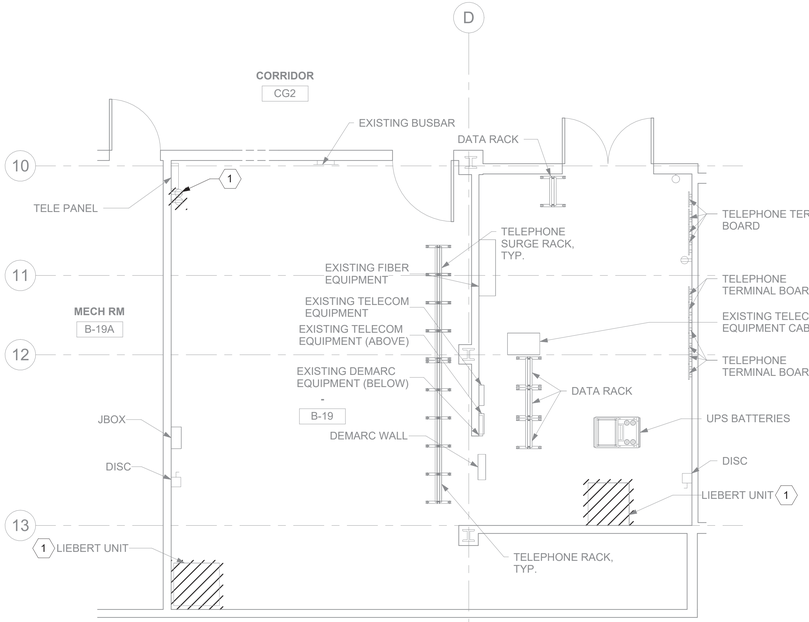
LOUIS R. LITZKA STATE OF WASHINGTON 55681 1-16-26 REGISTERED PROFESSIONAL ENGINEER

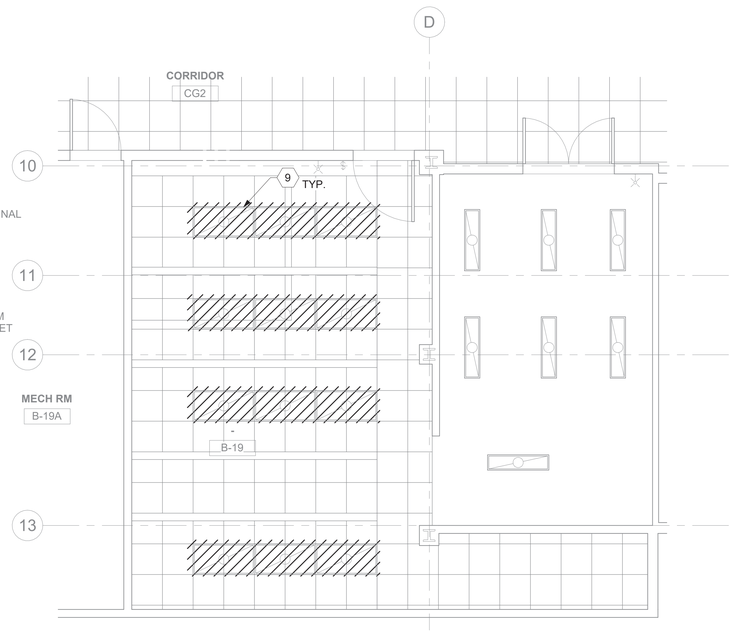
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

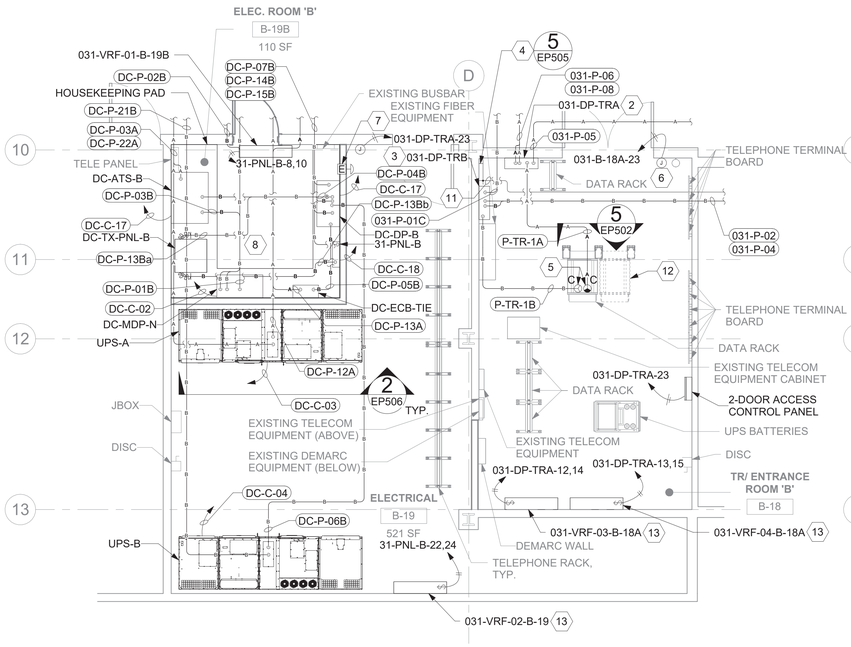
Drawing Title	BLDG 031 - PENTHOUSE A - ELECTRICAL PLAN
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Project Number	405-22-700
Building Number	031
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Drawing Number	031EP103
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB



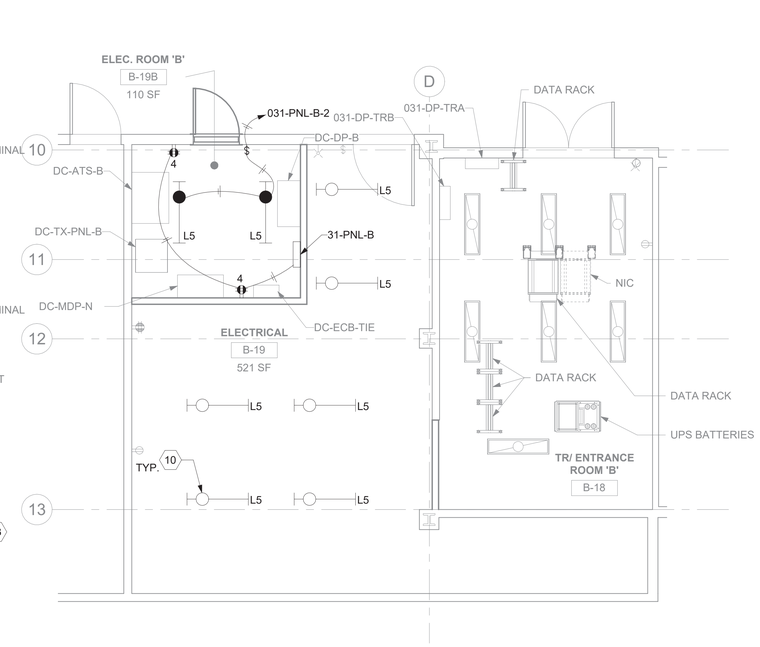
1 031EP100B RM B-19 - DEMO ELECTRICAL PLAN
1/4" = 1'-0"



2 031EP100B RM B-19 - DEMO LIGHTING PLAN
1/4" = 1'-0"



3 031EP100B RM B-19B - ELECTRICAL PLAN
1/4" = 1'-0"



4 031EP100B RM B-19B - LIGHTING AND RECEPTACLE PLAN
1/4" = 1'-0"

KEY NOTES

10 PROVIDE LIGHT FIXTURES AS INDICATED. CIRCUIT TO EXISTING ROOM LIGHTING CIRCUIT.

11 PROVIDE SBC AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.

12 TELECOM RACKS ARE NOT IN CONTRACT (NIC). SPARE CIRCUIT BREAKER HAS BEEN PROVIDED FOR FUTURE EQUIPMENT. REFERENCE BUILDING 031 PANEL SCHEDULES FOR ADDITIONAL INFORMATION.

13 PROVIDE EQUIPMENT WITH MOTOR RATED SWITCH.

LEGEND

PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.

- 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
- 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

GENERAL NOTES

1. DEMOLITION PLANS/NOTES ARE BASED ON SITE INVESTIGATIONS AND RECORD DRAWINGS. IF DISCREPANCIES ARE FOUND THAT MAY IMPACT WORK, PROMPTLY NOTIFY VA AND ENGINEER OF SAID DISCREPANCY.
2. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL DEMOLISH ALL ELECTRICAL EQUIPMENT, CONDUCTORS AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION, UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BE INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFORM WITH VA STANDARDS.
5. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH EXISTING FIRE RATING OR NEW FIRE RATING, IF REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
6. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
7. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
8. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULL BOX PLACEMENT AND SIZING BY CONTRACTOR. COORDINATE PULL BOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.
9. ALL RECEPTACLES AND SWITCHES SHALL BE PROVIDED WITH PANEL AND CIRCUIT LABELING LOCATED DIRECTLY ON THE WALL PLATE; IE:"P4-1", PANEL "4", CIRCUIT "1". REFERENCE WIRING DEVICE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEY NOTES

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2 SOURCE A POWER PANELBOARD.

3 SOURCE B POWER PANELBOARD.

4 PROVIDE SECONDARY BONDING BUSBAR. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.

5 OVERHEAD TR RACK SOURCE A AND SOURCE B POWER RECEPTACLE.

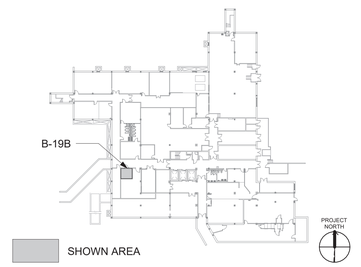
6 FURNISH AND INSTALL POWER SUPPLY WITH JUNCTION BOX AS INDICATED ABOVE ACCESSIBLE CEILINGS. VERIFY LOCATIONS WITH ARCHITECT. PROVIDE (1) POWER SUPPLY FOR EACH DOOR OPENING. PROVIDE 120V POWER TO SERVE DOORS WITH ELECTRIFIED DOOR HARDWARE AND MAKE CONNECTIONS AS REQUIRED; REFERENCE PANEL SCHEDULE "031-B-19A" FOR CIRCUITING INFORMATION. SEE REQUIREMENTS IN 08 71 00 - DOOR HARDWARE. COORDINATE WITH ARCHITECT AND DOOR INSTALLER.

7 PROVIDE UPS EPO; PUSH BUTTON SHALL BE MUSHROOM TYPE AND BE PROTECTED VIA CLEAR PLEXIGLASS. ONCE INITIATE, SWITCH SHALL DE-ENERGIZE AND DISABLE UPS POWER OUTPUT FOR BOTH "UPS-A1" AND "UPS-B1". CONTRACTOR SHALL COORDINATE WITH UPS MANUFACTURER AND PROVIDE CONDUIT AND WIRE AS REQUIRED. REFERENCE DETAIL'2' ON SHEET EP511 FOR GENERAL WIRING DIAGRAM.

8 REFERENCE SHEET EP506 FOR EQUIPMENT ELEVATIONS WITHIN ROOM.

9 EXISTING LIGHT FIXTURES TO BE DEMOLISHED. PRESERVE LIGHTING CIRCUIT FOR REUSE.

KEY PLAN



Revisions:	Date:

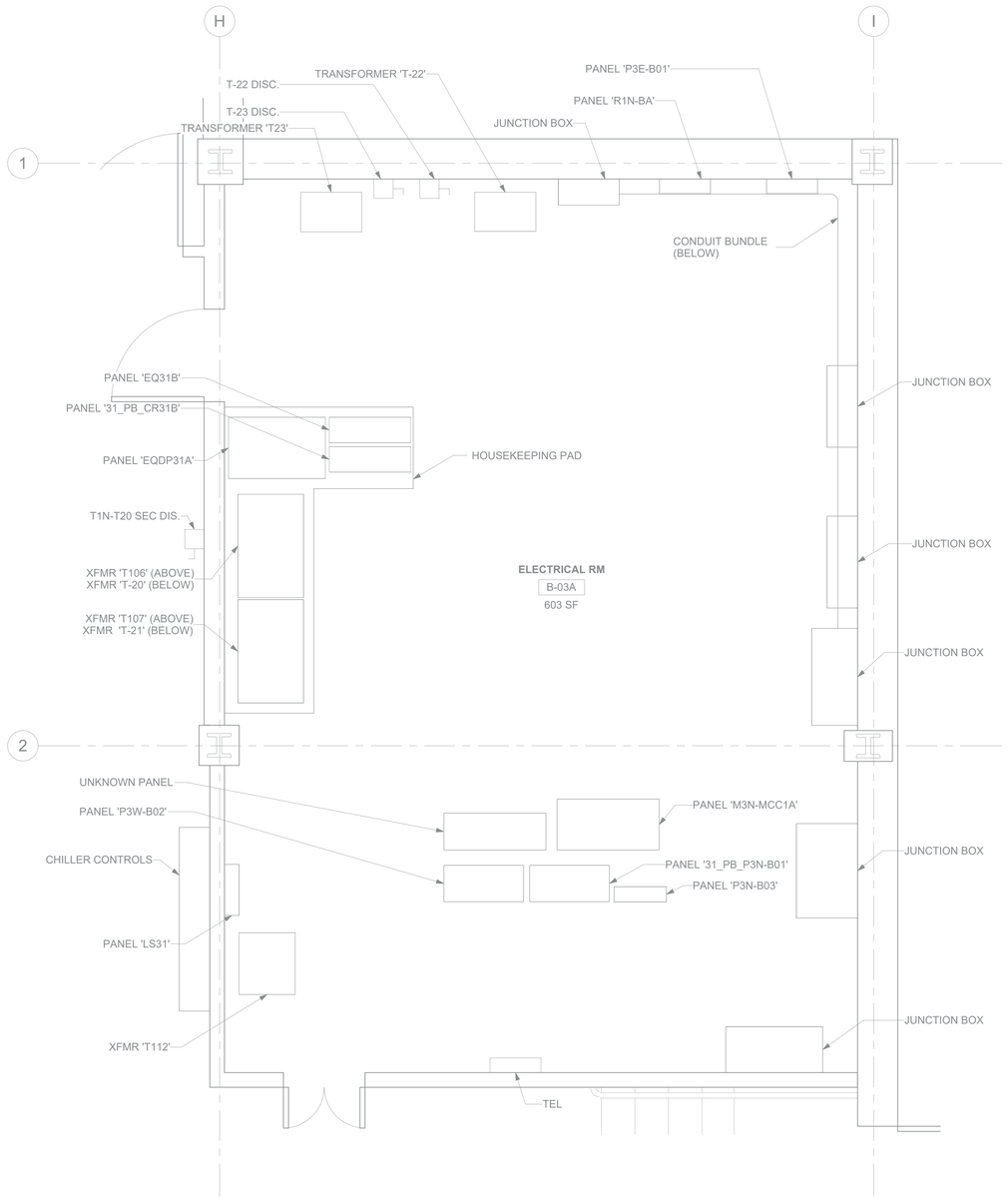
CONSULTANT/ DISCIPLINE
DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD
A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032
SPEESDESIGNBUILD

STAMP
LOUIS R. LUTZKO STATE OF WASHINGTON 55681 1-16-26 REGISTERED PROFESSIONAL ENGINEER

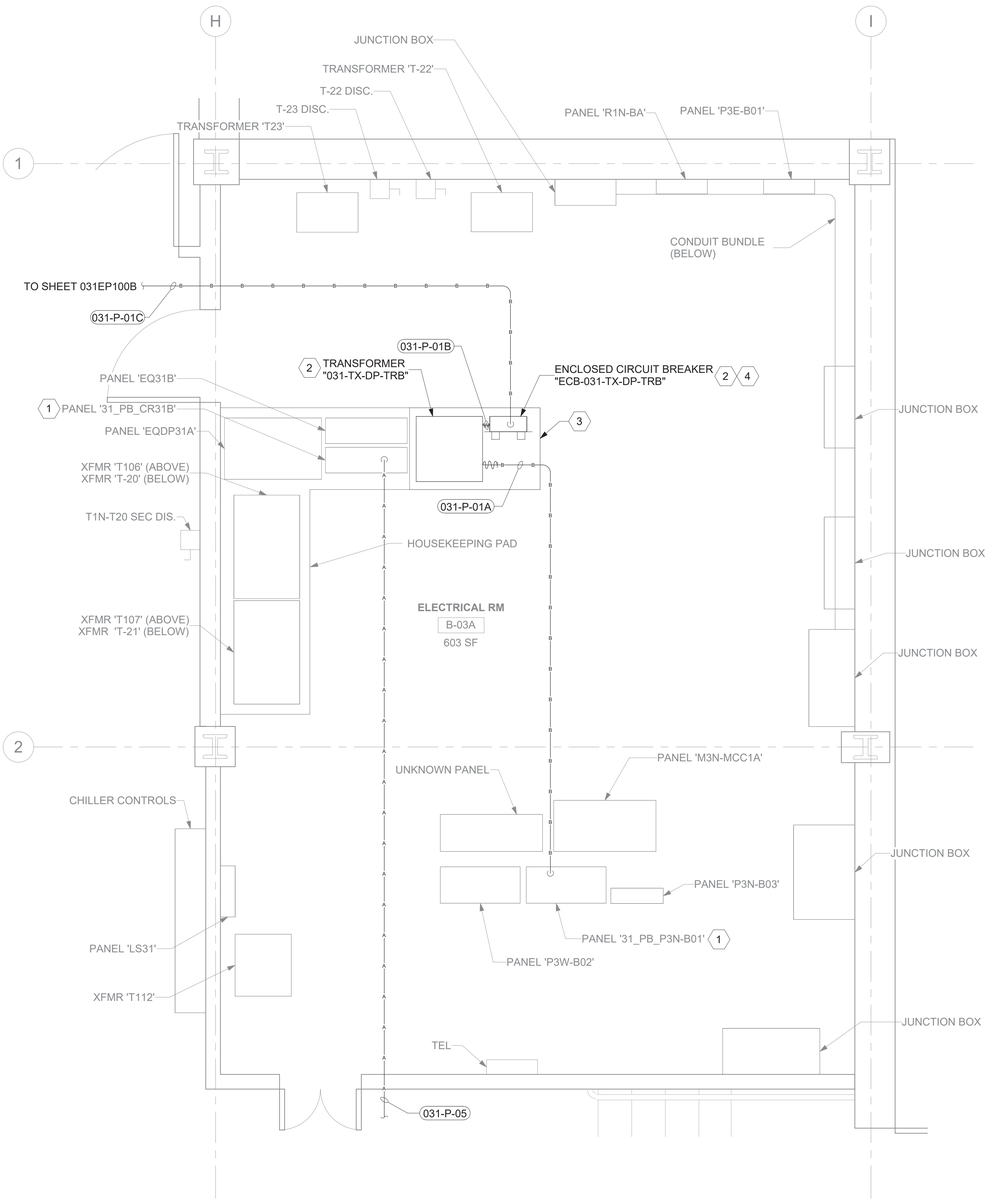
Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 031 - LEVEL 00B - ENLARGED ELECTRICAL PLANS
Approved:
Phase: 100% CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED
Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Location: VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Project Number: 405-22-700
Building Number: 031
Drawing Number: 031EP400Ba
Issue Date: 01/16/2026
Checked: NVP/DCW
Drawn: RTS/KDB



1 031EP100B RM B-03A - DEMO ELECTRICAL PLAN

1/2" = 1'-0"



2 031EP100B RM B-03A - ELECTRICAL PLAN

1/2" = 1'-0"

LEGEND
PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.
'A' SIDE POWER, CONCEALED WHERE POSSIBLE
'B' SIDE POWER, CONCEALED WHERE POSSIBLE
'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

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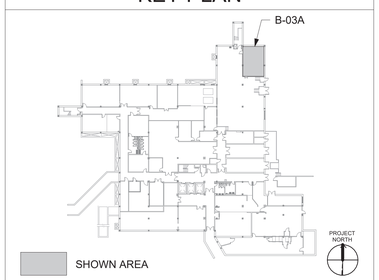
KEY NOTES

1. MODIFIED EQUIPMENT. REFERENCE BUILDING 031 ONE-LINE DIAGRAMS FOR ADDITIONAL INFORMATION.
2. PROVIDE EQUIPMENT AS INDICATED. REFERENCE BUILDING 031 ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
3. EXTEND EXISTING HOUSEKEEPING PAD AS INDICATED.
4. PROVIDE UNISTRUT TO MOUNT EQUIPMENT WHERE INDICATED. ENSURE FRONT FACE OF ENCLOSED CIRCUIT BREAKER IS FLUSH WITH ASSOCIATED TRANSFORMER.

KEY PLAN



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LOUIS R. LITZKO — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

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Project Number	405-22-700
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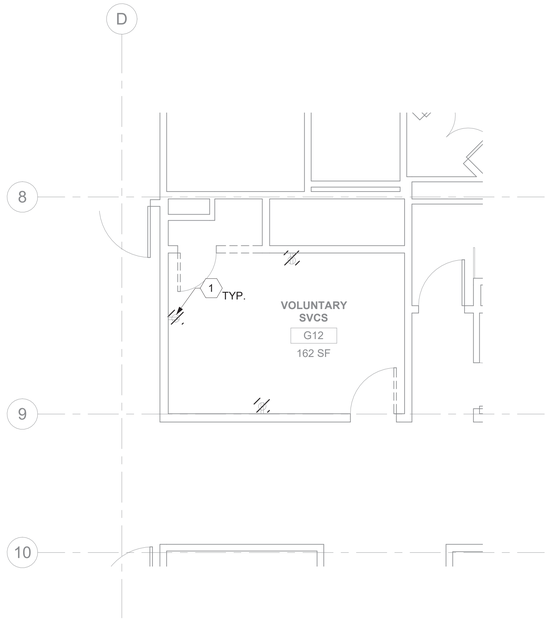
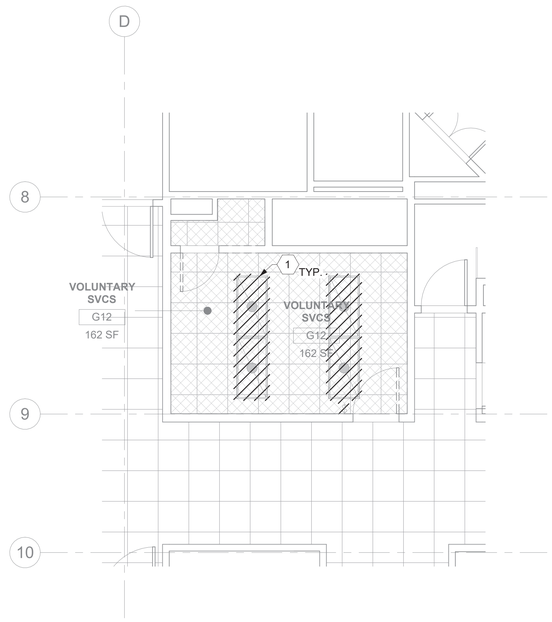
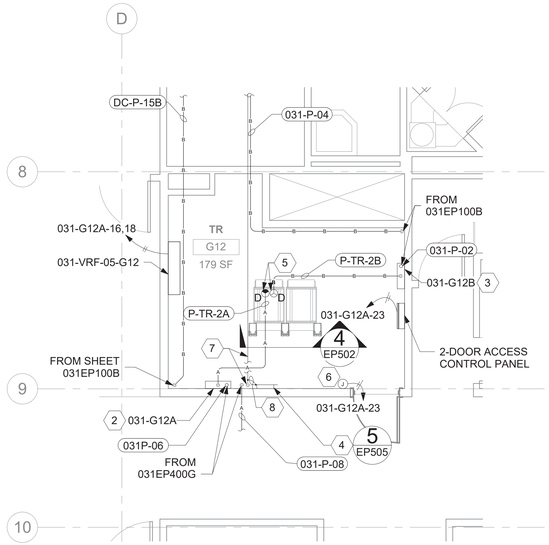


1 RM G12 - DEMO ELECTRICAL PLAN
031EP100G 1/4" = 1'-0"



2 RM G12 - DEMO LIGHTING PLAN
031EP100G 1/4" = 1'-0"



3 RM G12 - ELECTRICAL PLAN
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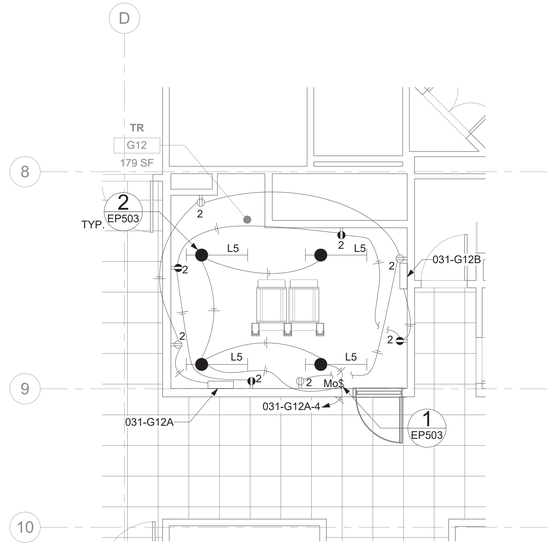

4 RM G12 - LIGHTING AND RECEPTACLE PLAN
031EP100G 1/4" = 1'-0"

LEGEND

PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.

- 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
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KEY NOTES

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2. SOURCE A POWER PANELBOARD "031-G12A".
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4. PROVIDE SECONDARY BONDING BUSBAR. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.
5. OVERHEAD TR RACK SOURCE A AND SOURCE B POWER RECEPTACLE.
6. FURNISH AND INSTALL POWER SUPPLY WITHIN JUNCTION BOX AS INDICATED ABOVE ACCESSIBLE CEILINGS. VERIFY LOCATIONS WITH ARCHITECT. PROVIDE (1) POWER SUPPLY FOR EACH DOOR OPENING. PROVIDE 120V POWER TO SERVE DOORS WITH ELECTRIFIED DOOR HARDWARE AND MAKE CONNECTIONS AS REQUIRED; REFERENCE PANEL SCHEDULE "031-G12A" FOR CIRCUITING INFORMATION. SEE REQUIREMENTS IN 08 71 00 - DOOR HARDWARE. COORDINATE WITH ARCHITECT AND DOOR INSTALLER.
7. PROVIDE TBB AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.
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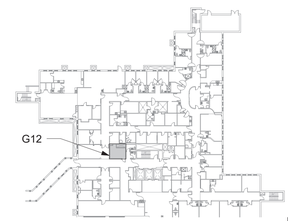
KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE

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ARCHITECT/ ENGINEER OF RECORD

A/E:
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KENT, WA 98032

SPEESDESIGNBUILD

STAMP

LOUIS R. LITZAU — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	BLDG 031 - LEVEL 00G - ENLARGED ELECTRICAL PLANS
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
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Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Project Number	405-22-700
Building Number	031
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Drawing Number	031EP400G
Issue Date	01/16/2026
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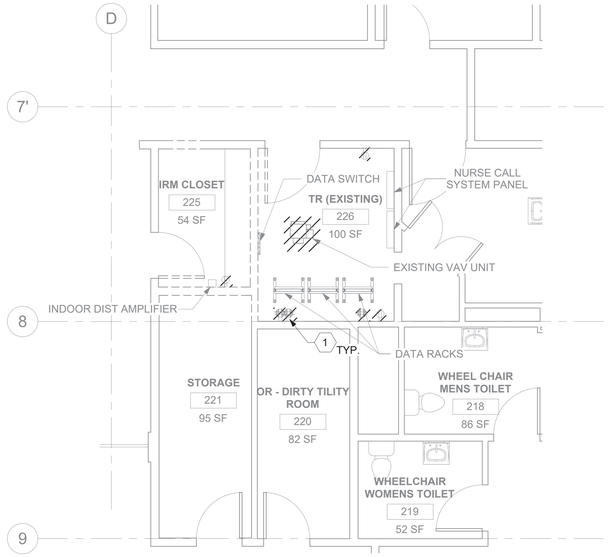
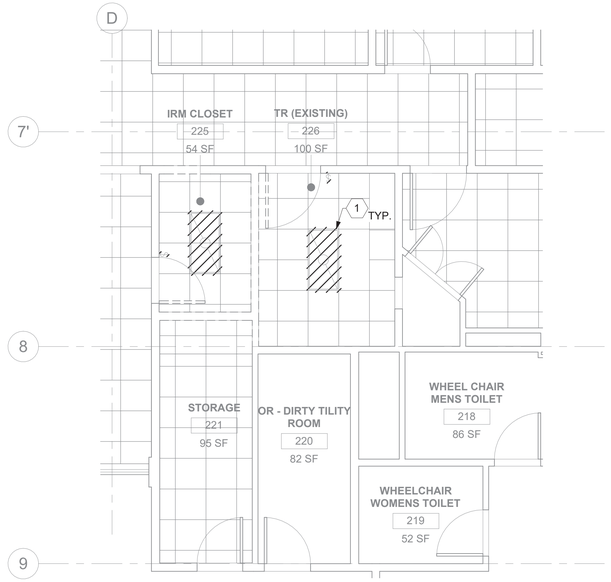


1 031EP102 RM 226 - DEMO ELECTRICAL PLAN

1/4" = 1'-0"



3 031EP102 RM 226 - DEMO LIGHTING PLAN

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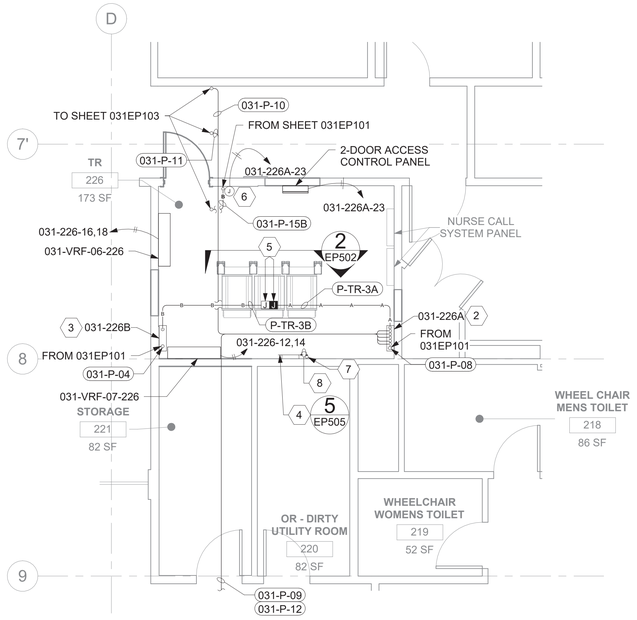

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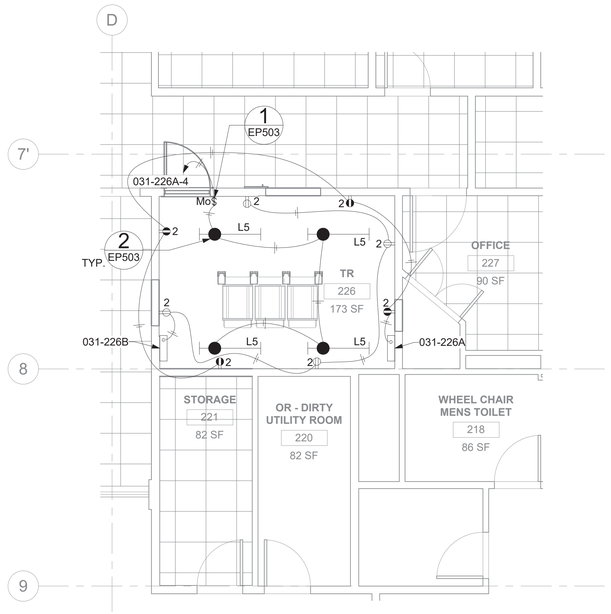

4 031EP102 RM 226 - LIGHTING AND RECEPTACLE PLAN

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LEGEND

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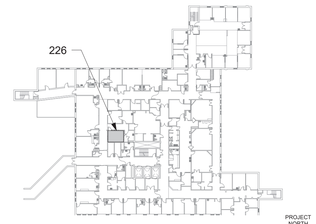

SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

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ARCHITECT/ ENGINEER OF RECORD

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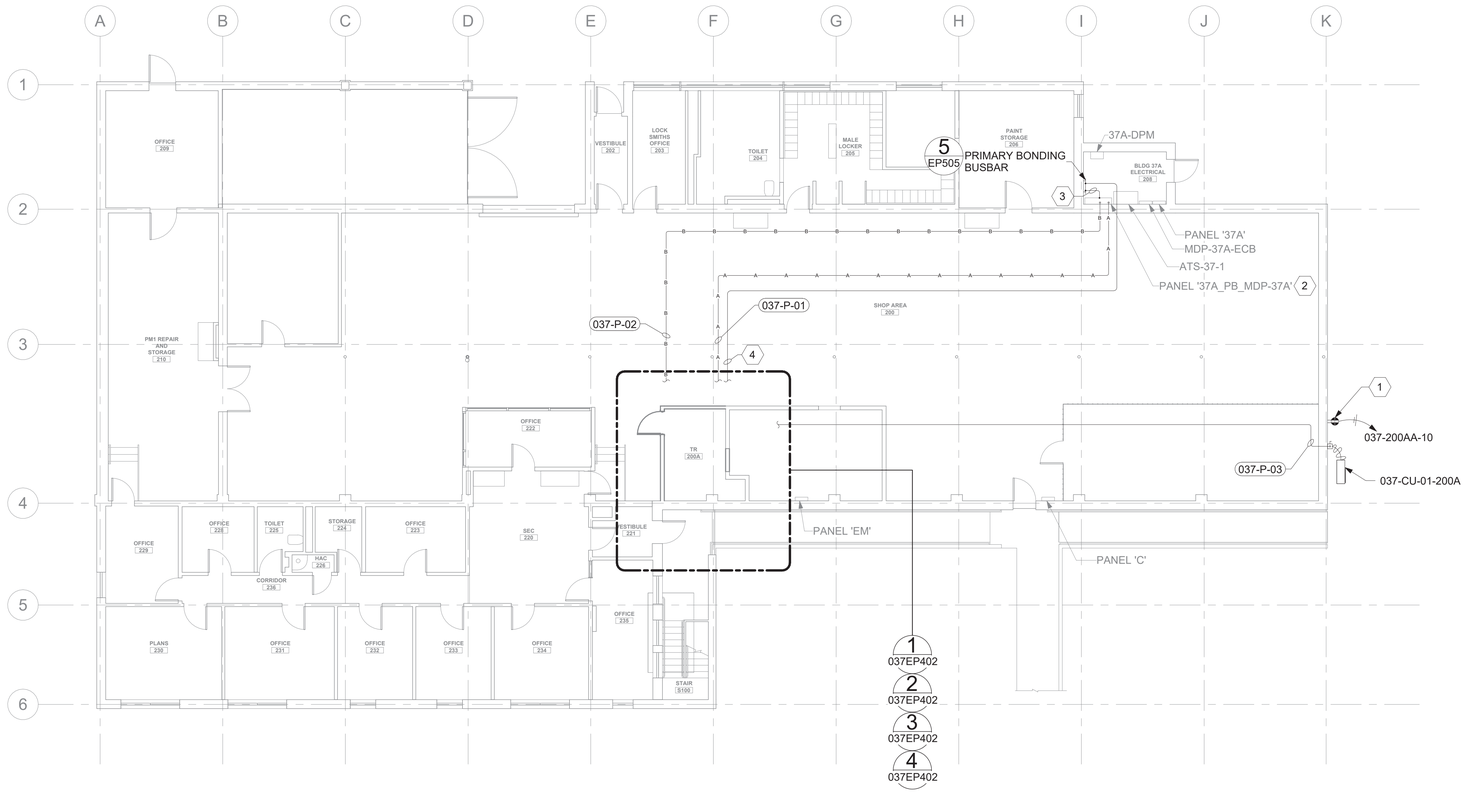
1 1/16/2026 4:11:17 AM

Autodesk Docs://405-22-700 VA VT White River Junction EHRM IU/VAWR_31_EL_SDB.rvt



1 BLDG 037 - LEVEL 02 - ELECTRICAL PLAN

1/8" = 1'-0"

PROJECT NORTH

0 4' 8' 16'

LEGEND

PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.

- 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
- 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

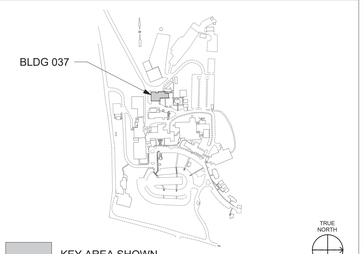
GENERAL NOTES

1. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL REMOVE ALL ELECTRICAL EQUIPMENT, CONDUCTORS, AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION OF MILLWORK.
3. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BE INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFORM WITH VA STANDARDS.
4. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH EXISTING FIRE RATING OR NEW FIRE RATING, IF REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
5. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
6. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
7. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULLBOX PLACEMENT AND SIZING BY CONTACTOR. COORDINATE PULLBOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.

KEY NOTES

1. PROVIDE CONVENIENCE RECEPTACLE, 20A, 120V, GFCI, WR, WITH WHILE-IN-USE COVER.
2. MODIFIED EQUIPMENT. REFERENCE BUILDING 037 ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
3. PROVIDE TBC AS SHOWN. REFERENCE TELECOM BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.
4. PROVIDE TBB(S) AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.

KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

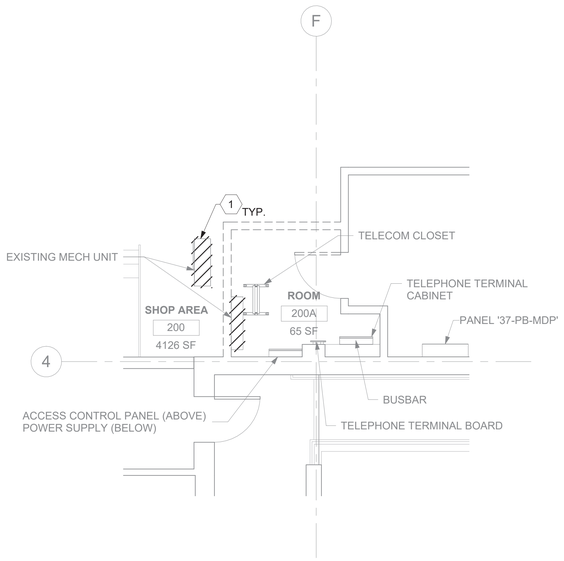
STAMP

LOUIS R. UTZAO
STATE OF WASHINGTON
55681
1-16-26
REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

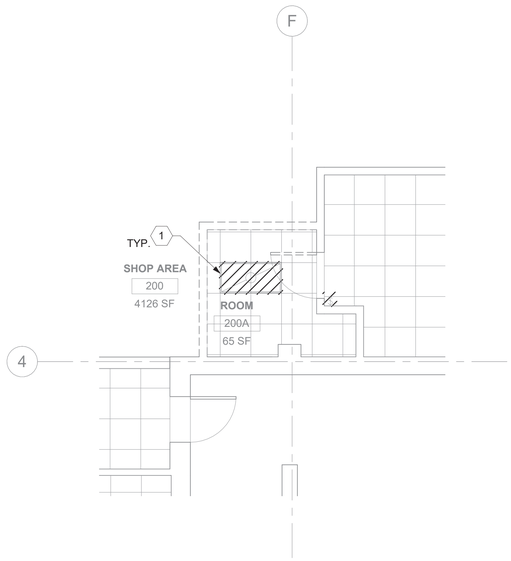
VA U.S. Department of Veterans Affairs

Drawing Title	BLDG 037 - LEVEL 02 - ELECTRICAL PLAN
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Project Number	405-22-700
Building Number	037
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Drawing Number	037EP102
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB



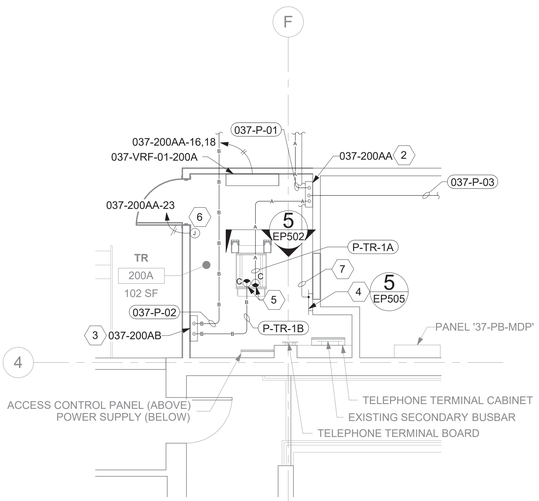
1 037EP102 RM X & 200 - DEMO ELECTRICAL PLAN

1/4" = 1'-0"



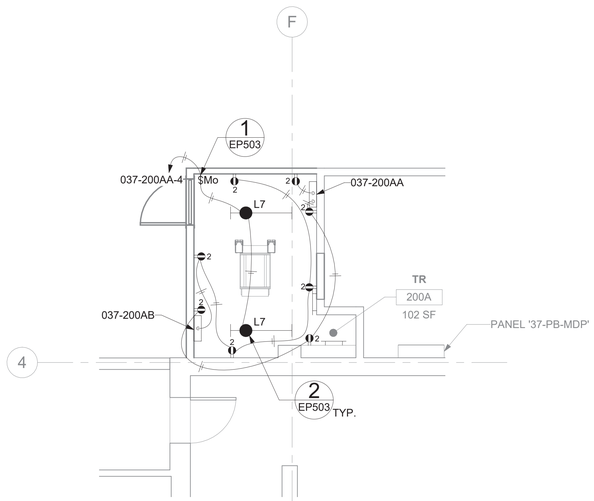
2 037EP102 RM X & 200 - DEMO LIGHTING PLAN

1/4" = 1'-0"



3 037EP102 RM 200A - ELECTRICAL PLAN

1/4" = 1'-0"



4 037EP102 RM 200A - LIGHTING AND RECEPTACLE PLAN

1/4" = 1'-0"

LEGEND

PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.

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- 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

GENERAL NOTES

1. DEMOLITION PLANS/NOTES ARE BASED ON SITE INVESTIGATIONS AND RECORD DRAWINGS. IF DISCREPANCIES ARE FOUND THAT MAY IMPACT WORK, PROMPTLY NOTIFY VA AND ENGINEER OF SAID DISCREPANCY.
2. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL DEMOLISH ALL ELECTRICAL EQUIPMENT, CONDUCTORS AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION, UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BE INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFORM WITH VA STANDARDS.
5. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH EXISTING FIRE RATING OR NEW FIRE RATING, IF REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
6. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
7. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
8. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULL BOX PLACEMENT AND SIZING BY CONTRACTOR. COORDINATE PULL BOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.
9. ALL RECEPTACLES AND SWITCHES SHALL BE PROVIDED WITH PANEL AND CIRCUIT LABELING LOCATED DIRECTLY ON THE WALL PLATE; IE:"P4-1", PANEL "4", CIRCUIT "1". REFERENCE WIRING DEVICE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEY NOTES

1. EXISTING EQUIPMENT SHALL BE DEMOLISHED. ASSOCIATED CONDUIT AND WIRE SHALL BE DEMOLISHED BACK TO SOURCE.
2. SOURCE A POWER PANELBOARD "037-200AA".
3. SOURCE B POWER PANELBOARD "037-200AB".
4. PROVIDE SECONDARY BONDING BUSBAR. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.
5. OVERHEAD TR RACK SOURCE A AND SOURCE B POWER RECEPTACLE.
6. FURNISH AND INSTALL POWER SUPPLY WITHIN JUNCTION BOX AS INDICATED ABOVE ACCESSIBLE CEILINGS. VERIFY LOCATIONS WITH ARCHITECT. PROVIDE (1) POWER SUPPLY FOR EACH DOOR OPENING. PROVIDE 120V POWER TO SERVE DOORS WITH ELECTRIFIED DOOR HARDWARE AND MAKE CONNECTIONS AS REQUIRED; REFERENCE PANEL SCHEDULE "037-200A" FOR CIRCUITING INFORMATION. SEE REQUIREMENTS IN 08 71 00 - DOOR HARDWARE. COORDINATE WITH ARCHITECT AND DOOR INSTALLER.
7. PROVIDE TBB(S) AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.

KEY PLAN

SHOWN AREA

PROJECT NORTH

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

LOUIS R. LITZKO — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 037 - LEVEL 02 - ENLARGED ELECTRICAL PLANS	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER		Project Number: 405-22-700
		Building Number: 037
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009		Drawing Number: 037EP402
Issue Date: 01/16/2026	Checked: NVP/DCW	Drawn: RTS/KDB

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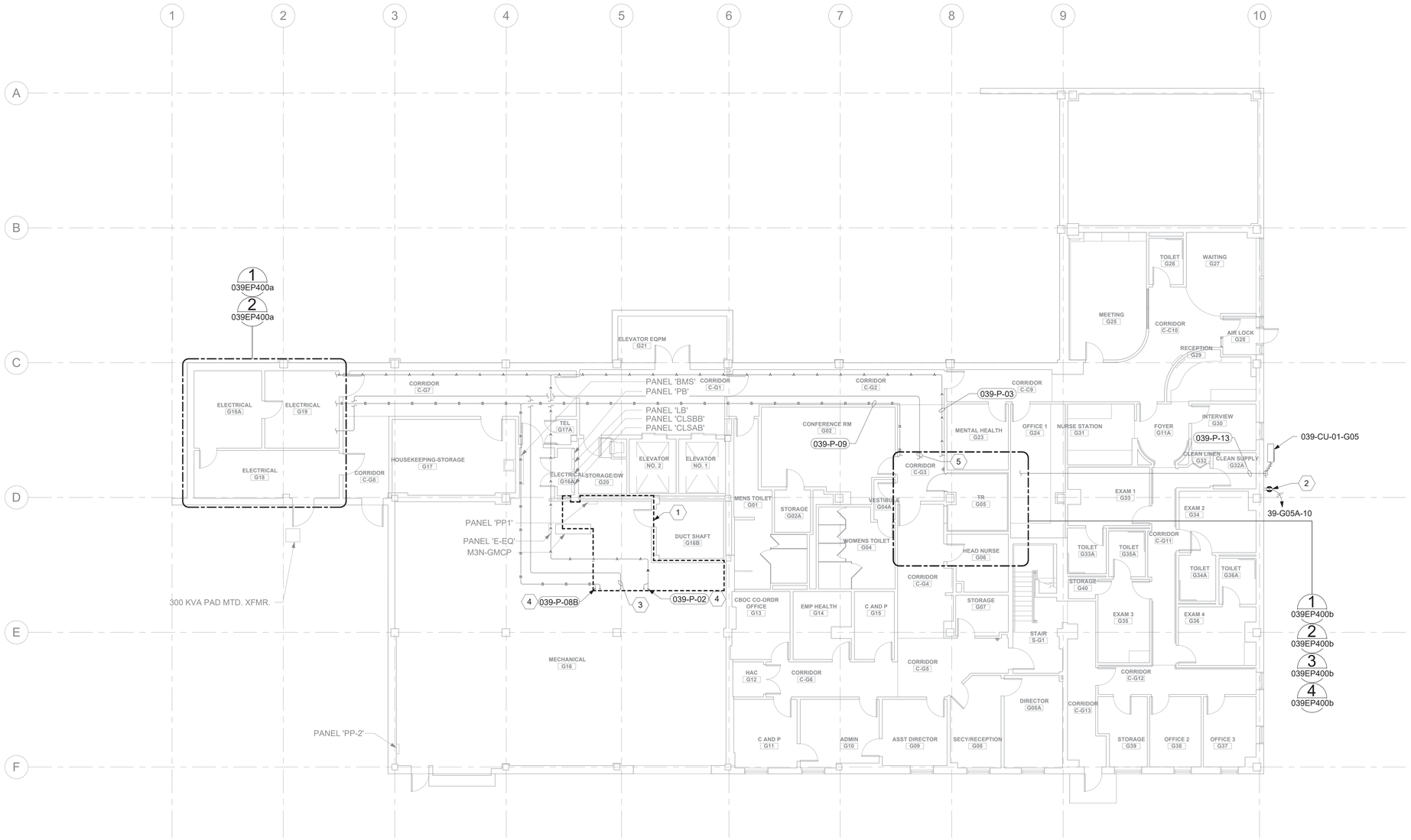
Autodesk Docs://405-22-700 VA VT White River Junction EHRM IU/VAWR_37_EL_SDB.rvt



1 BLDG 039 - LEVEL 00 - ELECTRICAL PLAN

1/8" = 1'-0"

PROJECT NORTH

0 4' 8' 16'

LEGEND

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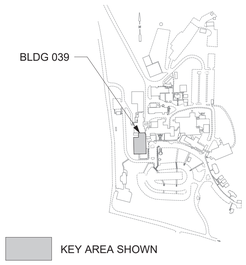
KEY NOTES

1. APPROXIMATE FOOTPRINT OF TR "132" LOCATED ON FLOOR ABOVE. FEEDERS ROUTE THROUGH VERTICALLY STACKED TR "132"; REFERENCE ENLARGED ELECTRICAL PLANS 039EP401 FOR ADDITIONAL INFORMATION.
2. PROVIDE CONVENIENCE RECEPTACLE, 20A, 120V, GFCI, WR, WITH WHILE-IN-USE COVER.
3. PROVIDE TBB(S) AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.
4. CONDUIT ROUTED VERTICALLY FROM ROOM "G16" TO TR "132" ABOVE. SEE SHEET 039EP401 FOR ADDITIONAL INFORMATION.
5. PROVIDE SBC AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.

KEY PLAN



KEY AREA SHOWN

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

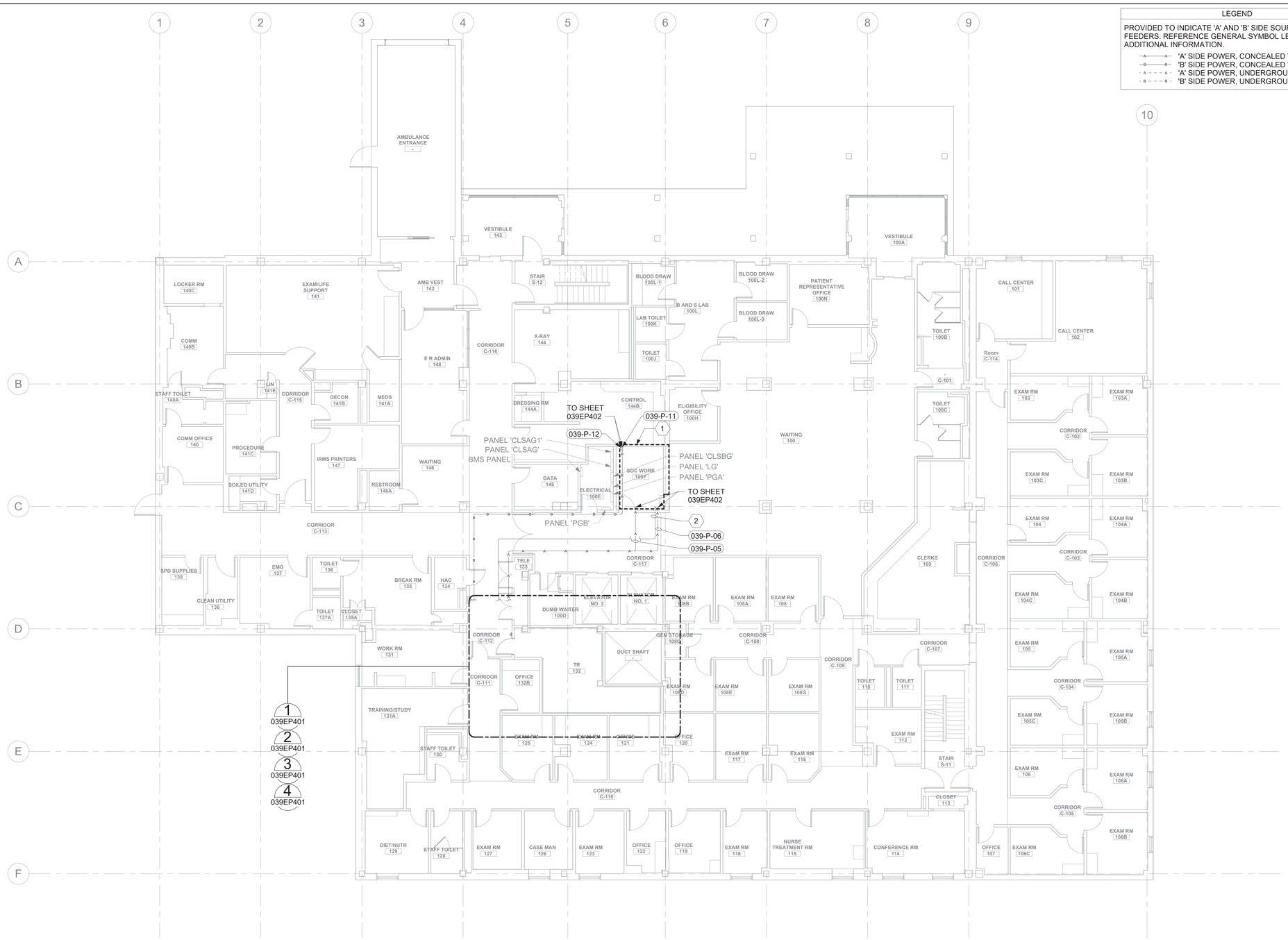
STAMP

LOUIS R. LITZKO STATE OF WASHINGTON 55681 1-16-26 REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	BLDG 039 - LEVEL 00 - ELECTRICAL PLAN
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Project Number	405-22-700
Building Number	039
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Drawing Number	039EP100
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB



LEGEND

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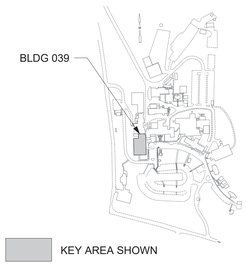
KEY NOTES

1. APPROXIMATE FOOTPRINT OF TR "200A" LOCATED ON FLOOR ABOVE. FEEDERS ROUTE THROUGH VERTICALLY STACKED TR "200A"; REFERENCE ENLARGED ELECTRICAL PLANS 039EP402 FOR ADDITIONAL INFORMATION.
2. PROVIDE TBB(S) AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.

KEY PLAN



1 BLDG 039 - LEVEL 01 - ELECTRICAL PLAN

1/8" = 1'-0"

PROJECT NORTH

0 4' 8' 16'

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

LOUIS R. LITZKO
STATE OF WASHINGTON
55681
1-16-26
REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title	BLDG 039 - LEVEL 01 - ELECTRICAL PLAN
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB
Project Number	405-22-700
Building Number	039
Drawing Number	039EP101

BLDG 039 - LEVEL 02 - ELECTRICAL PLAN

1/8" = 1'-0"

PROJECT NORTH

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KEY NOTES

1. APPROXIMATE FOOTPRINT OF TR "386" LOCATED ON FLOOR ABOVE. FEEDERS ROUTE THROUGH VERTICALLY STACKED TR "386"; REFERENCE ENLARGED ELECTRICAL PLANS 039EP403 FOR ADDITIONAL INFORMATION.
2. PROVIDE TBB(S) AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.

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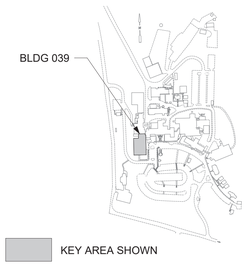

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KENT, WA 98032

SDB SPEESDESIGNBUILD

STAMP

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Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Issue Date	01/16/2026
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1 - BLDG 039 - LEVEL 03 - ELECTRICAL PLAN

1/8" = 1'-0"

PROJECT NORTH

0 4' 8' 16'

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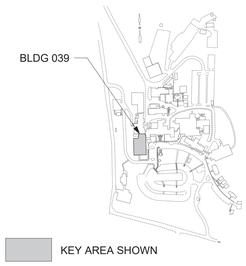
- 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
- 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

GENERAL NOTES

1. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL REMOVE ALL ELECTRICAL EQUIPMENT, CONDUCTORS, AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION OF MILLWORK.
3. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BE INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFORM WITH VA STANDARDS.
4. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH EXISTING FIRE RATING OR NEW FIRE RATING, IF REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
5. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
6. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
7. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULLBOX PLACEMENT AND SIZING BY CONTACTOR. COORDINATE PULLBOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.

KEY NOTES

KEY PLAN



KEY AREA SHOWN

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SDB SPEESDESIGNBUILD

STAMP

LOUIS R. LITZAO
STATE OF WASHINGTON
55681
1-16-26
REGISTERED
PROFESSIONAL ENGINEER

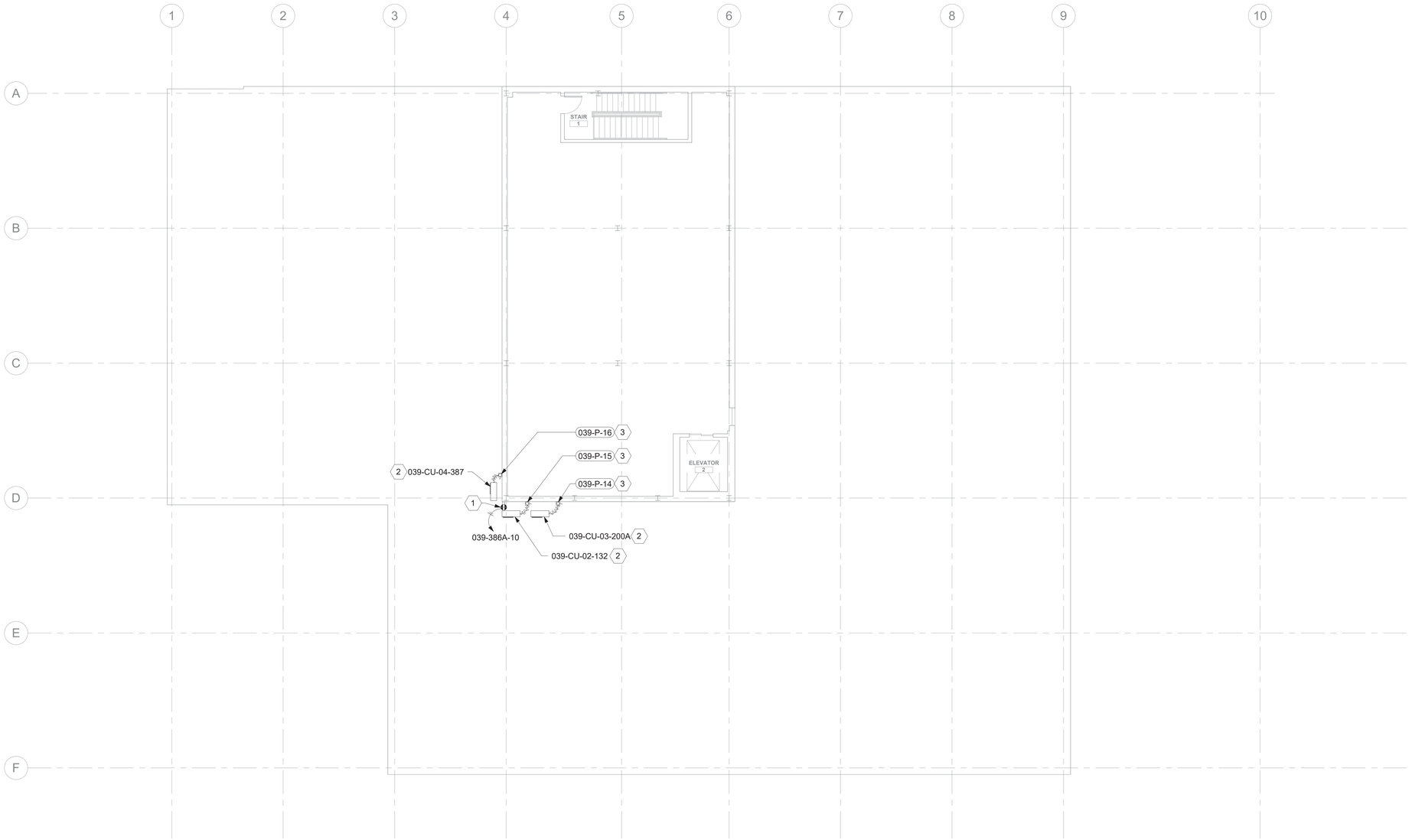
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 039 - LEVEL 03 - ELECTRICAL PLAN	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER	Project Number: 405-22-700
	Building Number: 039
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009	Drawing Number: 039EP103

Issue Date	Checked	Drawn
01/16/2026	NVP/DCW	RTS/KDB



BLDG 039 - PENTHOUSE - ELECTRICAL PLAN

1/8" = 1'-0"

PROJECT NORTH

0 4' 8' 16'

LEGEND

PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.

- 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
- 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

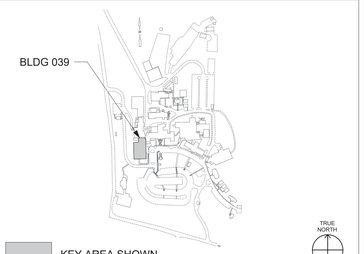
GENERAL NOTES

1. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL REMOVE ALL ELECTRICAL EQUIPMENT, CONDUCTORS, AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION OF MILLWORK.
3. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BE INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFORM WITH VA STANDARDS.
4. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH EXISTING FIRE RATING OR NEW FIRE RATING, IF REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
5. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
6. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
7. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULLBOX PLACEMENT AND SIZING BY CONTACTOR. COORDINATE PULLBOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.

KEY NOTES

1. PROVIDE CONVENIENCE RECEPTACLE, 20A, 120V, GFCI, WR, WITH WHILE-IN-USE COVER.
2. PROVIDE BOND FROM ROOFTOP MECHANICAL UNIT TO EXISTING BUILDING LIGHTNING PROTECTION SYSTEM ROOFTOP CONDUCTOR. CONTRACTOR SHALL COORDINATE WITH EXISTING BUILDING LIGHTNING PROTECTION SYSTEM AS REQUIRED. REFERENCE DETAIL '3' ON SHEET EP504 FOR ADDITIONAL INFORMATION.
3. FROM SHEET 039EP103.

KEY PLAN



KEY AREA SHOWN

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
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SDB SPEESDESIGNBUILD

STAMP

LOUIS R. LITZAU — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

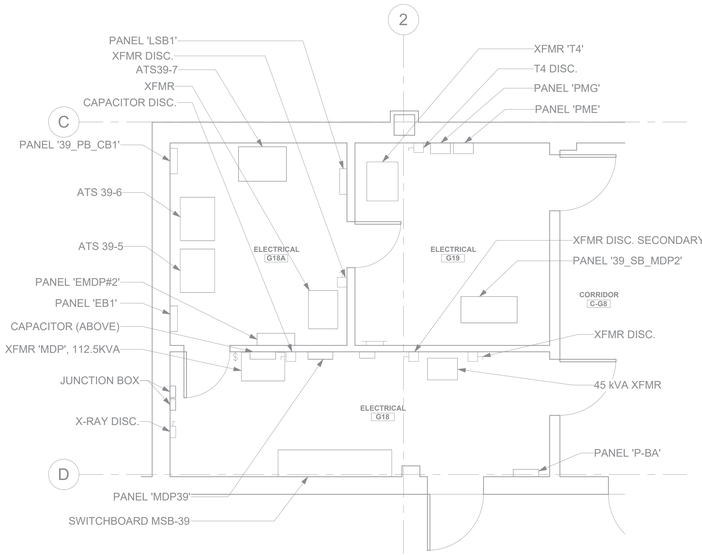
Drawing Title: BLDG 039 - PENTHOUSE - ELECTRICAL PLAN	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER			Project Number: 405-22-700
			Building Number: 039
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009			Drawing Number: 039EP104
Issue Date: 01/16/2026	Checked: NVP/DCW	Drawn: RTS/KDB	

VA FORM 08 - 6231

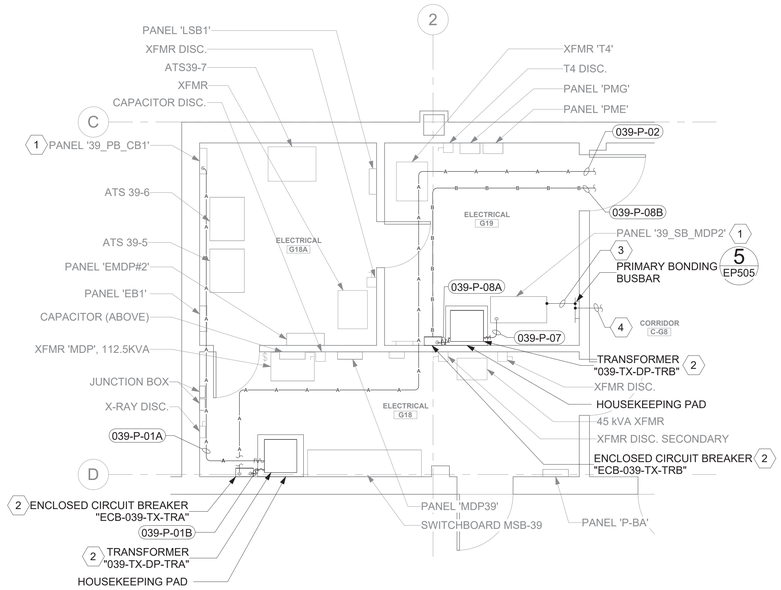
1 16/01/2026 3:59:29 am

Autodesk Docs://405-22-700 VA VT White River Junction EHRM IU/VAWR_39_EL_SDB.rvt



1 039EP100 RM G18, G18A, G19 - DEMO ELECTRICAL PLAN

1/4" = 1'-0"



2 039EP100 RM G18, G18A, G19 - ELECTRICAL PLAN

1/4" = 1'-0"

LEGEND
PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.
A A 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
B B 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
A A 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
B B 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

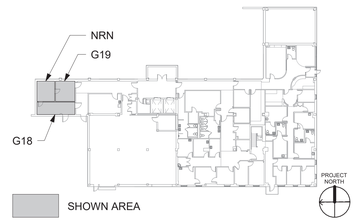
GENERAL NOTES

1. DEMOLITION PLANS/NOTES ARE BASED ON SITE INVESTIGATIONS AND RECORD DRAWINGS. IF DISCREPANCIES ARE FOUND THAT MAY IMPACT WORK, PROMPTLY NOTIFY VA AND ENGINEER OF SAID DISCREPANCY.
2. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL DEMOLISH ALL ELECTRICAL EQUIPMENT, CONDUCTORS AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION, UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BE INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFORM WITH VA STANDARDS.
5. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH EXISTING FIRE RATING OR NEW FIRE RATING, IF REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
6. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
7. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
8. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULL BOX PLACEMENT AND SIZING BY CONTRACTOR. COORDINATE PULL BOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.
9. ALL RECEPTACLES AND SWITCHES SHALL BE PROVIDED WITH PANEL AND CIRCUIT LABELING LOCATED DIRECTLY ON THE WALL PLATE; IE:"P4-1", PANEL "4", CIRCUIT "1". REFERENCE WIRING DEVICE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEY NOTES

1. MODIFIED EQUIPMENT. REFERENCE BUILDING 039 ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
2. PROVIDE EQUIPMENT AS INDICATED. REFERENCE BUILDING 039 ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
3. PROVIDE TBC AS SHOWN. REFERENCE TELECOM BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.
4. PROVIDE TBB(s) AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISERDIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.

KEY PLAN



Revisions:	Date:
1	16/01/2026 3:59:30 am

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
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KENT, WA 98032

SPEESDESIGNBUILD

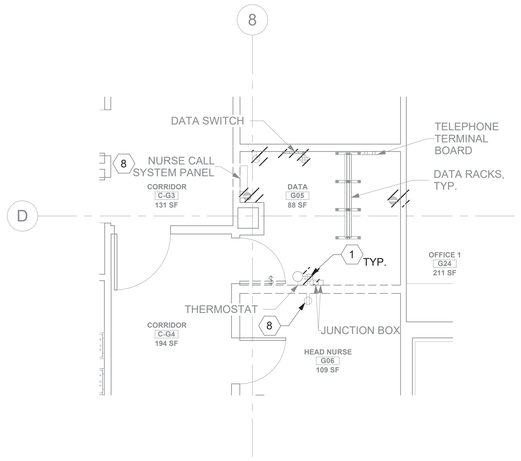
STAMP

LOUIS R. LITZAU — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

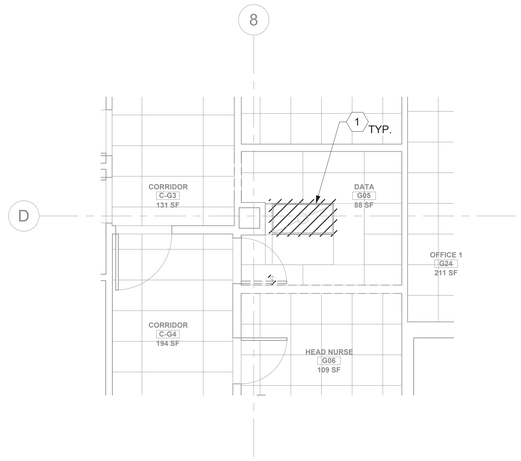
VA U.S. Department of Veterans Affairs

Drawing Title	BLDG 039 - LEVEL 00 - ENLARGED ELECTRICAL PLANS
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB
Project Number	405-22-700
Building Number	039
Drawing Number	039EP400a



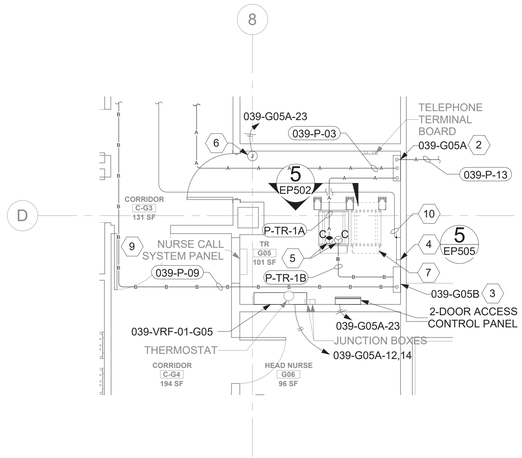
1 RM G05 - DEMO ELECTRICAL PLAN

039EP100 1/4" = 1'-0"



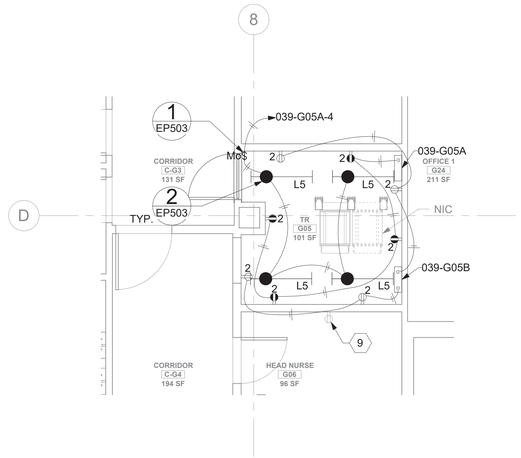
2 RM G05 - DEMO LIGHTING PLAN

039EP100 1/4" = 1'-0"



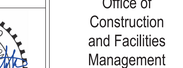
3 RM G05 - ELECTRICAL PLAN

039EP100 1/4" = 1'-0"



4 RM G05 - LIGHTING AND RECEPTACLE PLAN

039EP100 1/4" = 1'-0"



KEY NOTES

10 PROVIDE SBC AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.

LEGEND

PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.

- 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
- 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

GENERAL NOTES

1. DEMOLITION PLANS/NOTES ARE BASED ON SITE INVESTIGATIONS AND RECORD DRAWINGS. IF DISCREPANCIES ARE FOUND THAT MAY IMPACT WORK, PROMPTLY NOTIFY VA AND ENGINEER OF SAID DISCREPANCY.
2. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL DEMOLISH ALL ELECTRICAL EQUIPMENT, CONDUCTORS AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION, UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BE INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFORM WITH VA STANDARDS.
5. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH EXISTING FIRE RATING OR NEW FIRE RATING, IF REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
6. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
7. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
8. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULL BOX PLACEMENT AND SIZING BY CONTRACTOR. COORDINATE PULL BOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.
9. ALL RECEPTACLES AND SWITCHES SHALL BE PROVIDED WITH PANEL AND CIRCUIT LABELING LOCATED DIRECTLY ON THE WALL PLATE; IE:"P4-1", PANEL "4", CIRCUIT "1". REFERENCE WIRING DEVICE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEY NOTES

1 EXISTING EQUIPMENT SHALL BE DEMOLISHED. ASSOCIATED CONDUIT AND WIRE SHALL BE DEMOLISHED BACK TO SOURCE.

2 SOURCE A POWER PANELBOARD "039-G05A".

3 SOURCE B POWER PANELBOARD "039-G05B".

4 PROVIDE SECONDARY BONDING BUSBAR. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.

5 OVERHEAD TR RACK SOURCE A AND SOURCE B POWER RECEPTACLE.

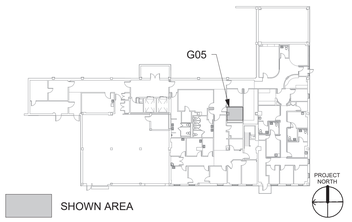
6 FURNISH AND INSTALL POWER SUPPLY WITHIN JUNCTION BOX AS INDICATED ABOVE ACCESSIBLE CEILINGS. VERIFY LOCATIONS WITH ARCHITECT. PROVIDE (1) POWER SUPPLY FOR EACH DOOR OPENING. PROVIDE 120V POWER TO SERVE DOORS WITH ELECTRIFIED DOOR HARDWARE AND MAKE CONNECTIONS AS REQUIRED; REFERENCE PANEL SCHEDULE "039-G05A" FOR CIRCUITING INFORMATION. SEE REQUIREMENTS IN 08 71 00 - DOOR HARDWARE. COORDINATE WITH ARCHITECT AND DOOR INSTALLER.

7 TELECOM RACKS ARE NOT IN CONTRACT (NIC). SPARE CIRCUIT BREAKER HAS BEEN PROVIDED FOR FUTURE EQUIPMENT. REFERENCE BUILDING 039 PANEL SCHEDULES FOR ADDITIONAL INFORMATION.

8 EQUIPMENT SHALL BE RELOCATED. PRESERVE AND PROTECT EXISTING BRANCH CIRCUIT FOR RE-TERMINATION.

9 RELOCATED EQUIPMENT. RE-TERMINATE TO EXISTING BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.

KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

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STAMP

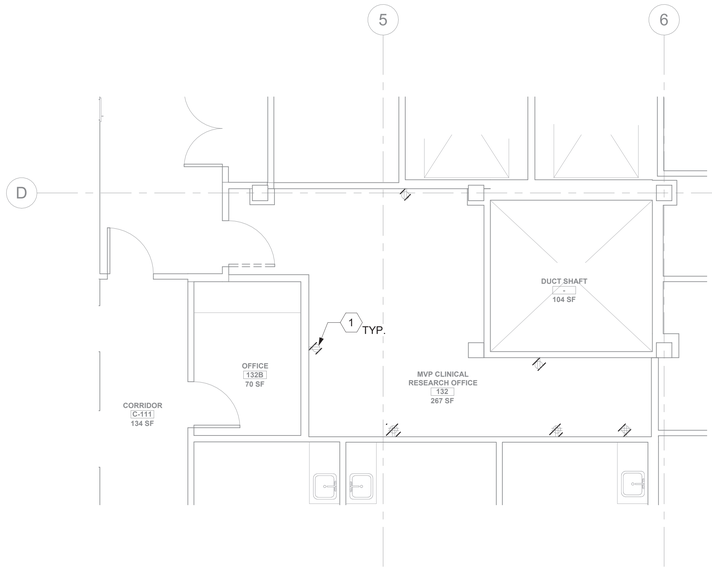
LOUIS R. LITZAO, STATE OF WASHINGTON, 55681, 1-16-26, REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

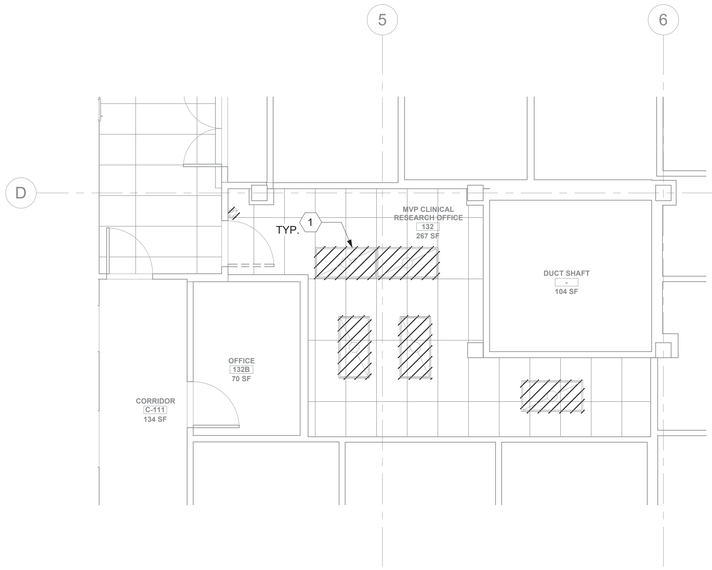
VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 039 - LEVEL 00 - ENLARGED ELECTRICAL PLANS	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

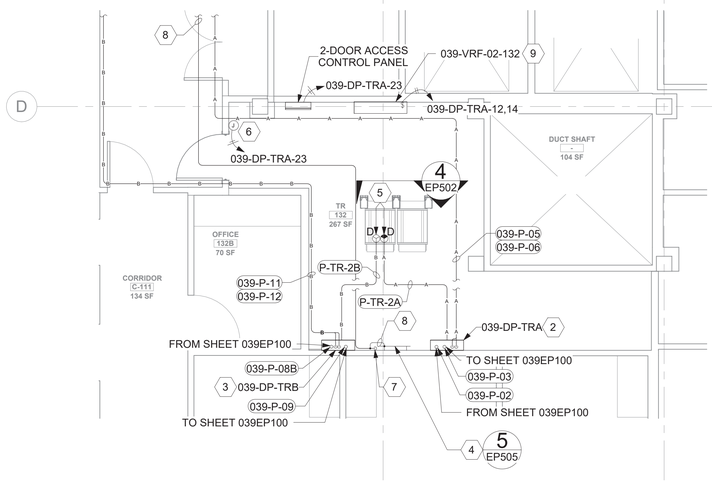
Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER		Project Number: 405-22-700
		Building Number: 039
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009		Drawing Number: 039EP400b
Issue Date: 01/16/2026	Checked: NVP/DCW	Drawn: RTS/KDB



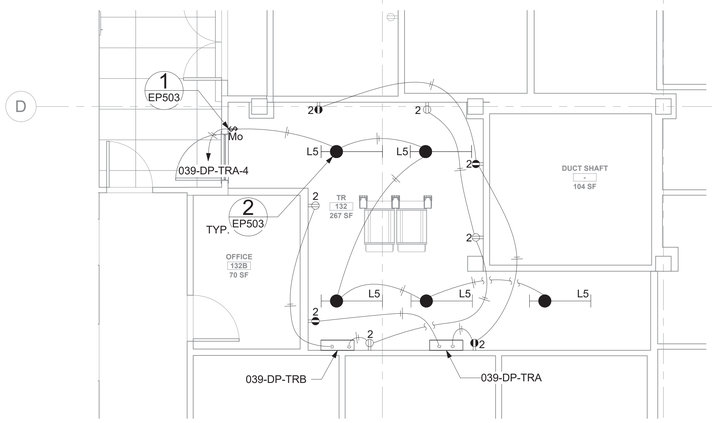
1 RM 132 - DEMO ELECTRICAL PLAN
039EP101 1/4" = 1'-0"



2 RM 132 - DEMO LIGHTING PLAN
039EP101 1/4" = 1'-0"



3 RM 132 - ELECTRICAL PLAN
039EP101 1/4" = 1'-0"



4 RM 132 - LIGHTING AND RECEPTACLE PLAN
039EP101 1/4" = 1'-0"

LEGEND

PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.

- 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
- 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

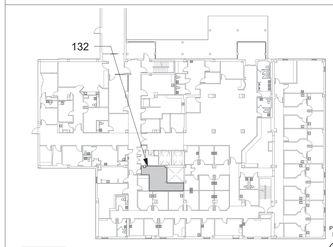
GENERAL NOTES

1. DEMOLITION PLANS/NOTES ARE BASED ON SITE INVESTIGATIONS AND RECORD DRAWINGS. IF DISCREPANCIES ARE FOUND THAT MAY IMPACT WORK, PROMPTLY NOTIFY VA AND ENGINEER OF SAID DISCREPANCY.
2. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL DEMOLISH ALL ELECTRICAL EQUIPMENT, CONDUCTORS AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION, UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BE INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFORM WITH VA STANDARDS.
5. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH EXISTING FIRE RATING OR NEW FIRE RATING, IF REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
6. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
7. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
8. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULL BOX PLACEMENT AND SIZING BY CONTRACTOR. COORDINATE PULL BOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.
9. ALL RECEPTACLES AND SWITCHES SHALL BE PROVIDED WITH PANEL AND CIRCUIT LABELING LOCATED DIRECTLY ON THE WALL PLATE; IE:"P4-1", PANEL "4", CIRCUIT "1". REFERENCE WIRING DEVICE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEY NOTES

1. EXISTING EQUIPMENT SHALL BE DEMOLISHED. ASSOCIATED CONDUIT AND WIRE SHALL BE DEMOLISHED BACK TO SOURCE.
2. SOURCE A POWER PANELBOARD "039-DP-TRA".
3. SOURCE B POWER PANELBOARD "039-DP-TRB".
4. PROVIDE SECONDARY BONDING BUSBAR. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.
5. TE POWER RECEPTACLE. 120V, 30A, 1PH, L5-30 OUTLET.
6. FURNISH AND INSTALL POWER SUPPLY WITHIN JUNCTION BOX AS INDICATED ABOVE ACCESSIBLE CEILINGS. VERIFY LOCATIONS WITH ARCHITECT. PROVIDE (1) POWER SUPPLY FOR EACH DOOR OPENING. PROVIDE 120V POWER TO SERVE DOORS WITH ELECTRIFIED DOOR HARDWARE AND MAKE CONNECTIONS AS REQUIRED; REFERENCE PANEL SCHEDULE "039-132A" FOR CIRCUITING INFORMATION. SEE REQUIREMENTS IN 08 71 00 - DOOR HARDWARE. COORDINATE WITH ARCHITECT AND DOOR INSTALLER.
7. PROVIDE TBB AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.
8. PROVIDE SBC AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.
9. PROVIDE EQUIPMENT WITH MOTOR RATED SWITCH.

KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

LOUIS R. LITZAO
STATE OF WASHINGTON
55681
1-16-26
REGISTERED
PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 039 - LEVEL 01 - ENLARGED ELECTRICAL PLANS	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER			Project Number: 405-22-700
			Building Number: 039
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009			Drawing Number: 039EP401
Issue Date: 01/16/2026	Checked: NVP/DCW	Drawn: RTS/KDB	

VA FORM 08 - 6231

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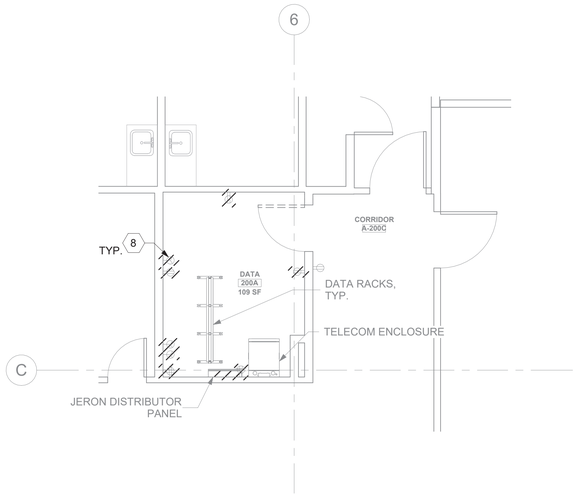
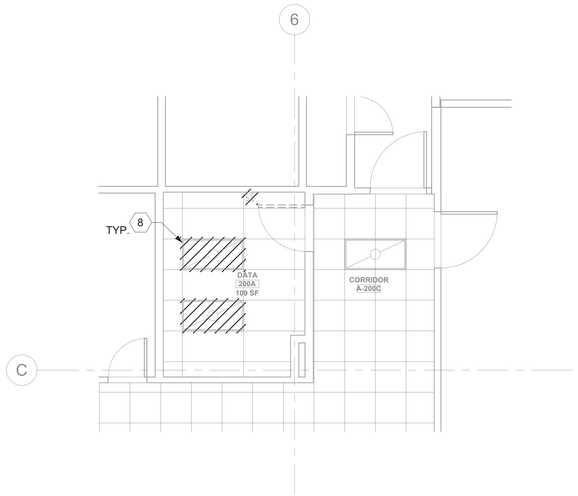
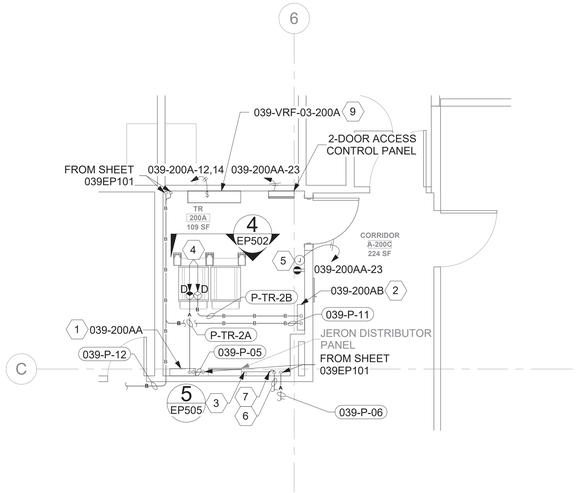
Autodesk Docs://405-22-700 VA VT White River Junction EHRM IU/VAWR_39_EL_SDB.rvt



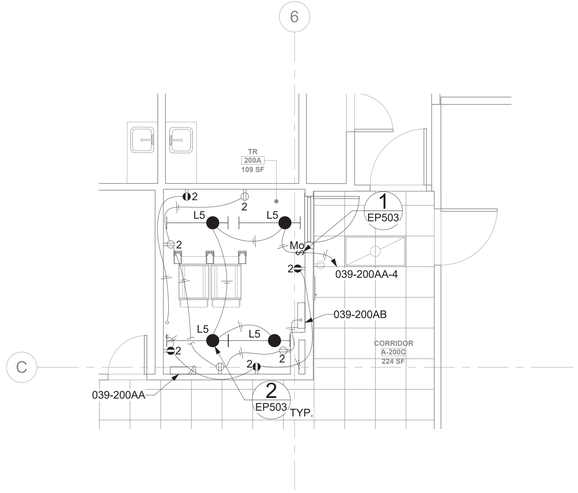
1 RM 4 - DEMO ELECTRICAL PLAN
039EP102 1/4" = 1'-0"



2 RM 4 - DEMO LIGHTING PLAN
039EP102 1/4" = 1'-0"



3 RM 200A - ELECTRICAL PLAN
039EP102 1/4" = 1'-0"



4 RM 200A - LIGHTING AND RECEPTACLE PLAN
039EP102 1/4" = 1'-0"

LEGEND

PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.

- 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
- 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

GENERAL NOTES

1. DEMOLITION PLANS/NOTES ARE BASED ON SITE INVESTIGATIONS AND RECORD DRAWINGS. IF DISCREPANCIES ARE FOUND THAT MAY IMPACT WORK, PROMPTLY NOTIFY VA AND ENGINEER OF SAID DISCREPANCY.
2. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL DEMOLISH ALL ELECTRICAL EQUIPMENT, CONDUCTORS AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION, UNLESS OTHERWISE NOTED.
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9. ALL RECEPTACLES AND SWITCHES SHALL BE PROVIDED WITH PANEL AND CIRCUIT LABELING LOCATED DIRECTLY ON THE WALL PLATE; IE:"P4-1", PANEL "4", CIRCUIT "1". REFERENCE WIRING DEVICE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEY NOTES

1. SOURCE A POWER PANELBOARD "039-200AA".
2. SOURCE B POWER PANELBOARD "039-200AB".
3. PROVIDE SECONDARY BONDING BUSBAR. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.
4. OVERHEAD TR RACK SOURCE A AND SOURCE B POWER RECEPTACLE.
5. FURNISH AND INSTALL POWER SUPPLY WITHIN JUNCTION BOX AS INDICATED ABOVE ACCESSIBLE CEILINGS. VERIFY LOCATIONS WITH ARCHITECT. PROVIDE (1) POWER SUPPLY FOR EACH DOOR OPENING. PROVIDE 120V POWER TO SERVE DOORS WITH ELECTRIFIED DOOR HARDWARE AND MAKE CONNECTIONS AS REQUIRED. REFERENCE PANEL SCHEDULE "039-200AA" FOR CIRCUITING INFORMATION. SEE REQUIREMENTS IN 08 71 00 - DOOR HARDWARE. COORDINATE WITH ARCHITECT AND DOOR INSTALLER.
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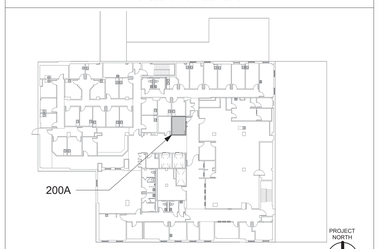
9. PROVIDE EQUIPMENT WITH MOTOR RATED SWITCH.

KEY PLAN



SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
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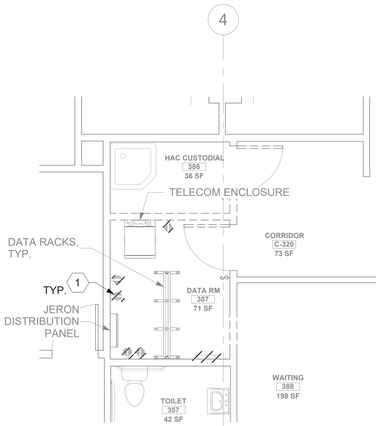
PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 039 - LEVEL 02 - ENLARGED ELECTRICAL PLANS	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER	Project Number: 405-22-700
	Building Number: 039
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009	Drawing Number: 039EP402
Issue Date: 01/16/2026 / Checked: NVP/DCW / Drawn: RTS/KDB	

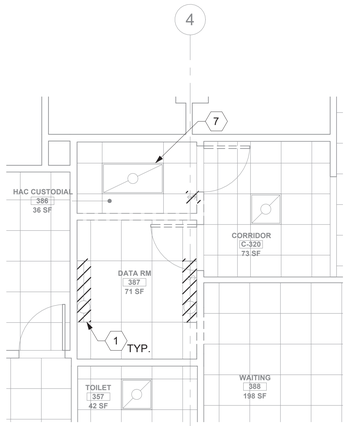


1 RM 386 & 387 - DEMO ELECTRICAL PLAN

039EP103 1/4" = 1'-0"

PROJECT NORTH

0 2' 4' 8'

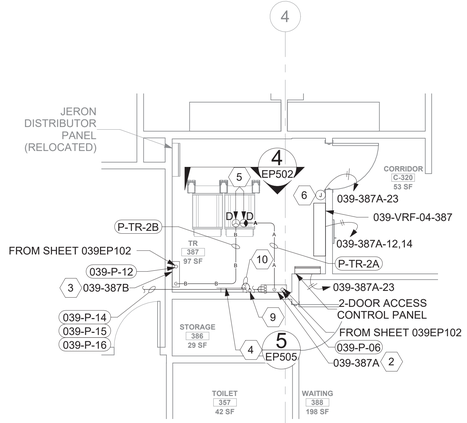


2 RM 386 & 387 - DEMO LIGHTING PLAN

039EP103 1/4" = 1'-0"

PROJECT NORTH

0 2' 4' 8'

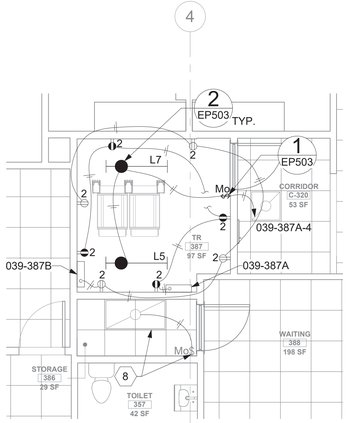


3 RM 387 - ELECTRICAL PLAN

039EP103 1/4" = 1'-0"

PROJECT NORTH

0 2' 4' 8'



4 RM 387 - LIGHTING AND RECEPTACLE PLAN

039EP103 1/4" = 1'-0"

PROJECT NORTH

0 2' 4' 8'

KEY NOTES

10 PROVIDE SBC AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.

LEGEND

PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.

- 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
- 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

GENERAL NOTES

1. DEMOLITION PLANS/NOTES ARE BASED ON SITE INVESTIGATIONS AND RECORD DRAWINGS. IF DISCREPANCIES ARE FOUND THAT MAY IMPACT WORK, PROMPTLY NOTIFY VA AND ENGINEER OF SAID DISCREPANCY.
2. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL DEMOLISH ALL ELECTRICAL EQUIPMENT, CONDUCTORS AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION, UNLESS OTHERWISE NOTED.
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8. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULL BOX PLACEMENT AND SIZING BY CONTRACTOR. COORDINATE PULL BOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.
9. ALL RECEPTACLES AND SWITCHES SHALL BE PROVIDED WITH PANEL AND CIRCUIT LABELING LOCATED DIRECTLY ON THE WALL PLATE; IE:"P4-1", PANEL "4", CIRCUIT "1". REFERENCE WIRING DEVICE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEY NOTES

1 EXISTING EQUIPMENT SHALL BE DEMOLISHED. ASSOCIATED CONDUIT AND WIRE SHALL BE DEMOLISHED BACK TO SOURCE.

2 SOURCE A POWER PANELBOARD "039-387A".

3 SOURCE B POWER PANELBOARD "039-387B".

4 PROVIDE SECONDARY BONDING BUSBAR. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.

5 OVERHEAD TR RACK SOURCE A AND SOURCE B POWER RECEPTACLE.

6 FURNISH AND INSTALL POWER SUPPLY WITHIN JUNCTION BOX AS INDICATED ABOVE ACCESSIBLE CEILINGS. VERIFY LOCATIONS WITH ARCHITECT. PROVIDE (1) POWER SUPPLY FOR EACH DOOR OPENING. PROVIDE 120V POWER TO SERVE DOORS WITH ELECTRIFIED DOOR HARDWARE AND MAKE CONNECTIONS AS REQUIRED; REFERENCE PANEL SCHEDULE "039-387A" FOR CIRCUITING INFORMATION. SEE REQUIREMENTS IN 08 71 00 - DOOR HARDWARE. COORDINATE WITH ARCHITECT AND DOOR INSTALLER.\

7 EXISTING LUMINAIRE TO BE REMOVED AND PRESERVED FOR RE-INSTALLATION; EXISTING CIRCUIT SHALL BE PRESERVED FOR REUSE. REFERENCE KEY NOTE '8' IN DETAIL '4' ON THIS SHEET FOR ADDITIONAL INFORMATION.

8 RELOCATE EXISTING LIGHT AND PROVIDE SWITCH AS INDICATED. EXTEND EXISTING CIRCUIT REFERENCED IN KEY NOTE '7' ON DETAIL '2' OF THIS SHEET.

9 PROVIDE TBB AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.

KEY PLAN

SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
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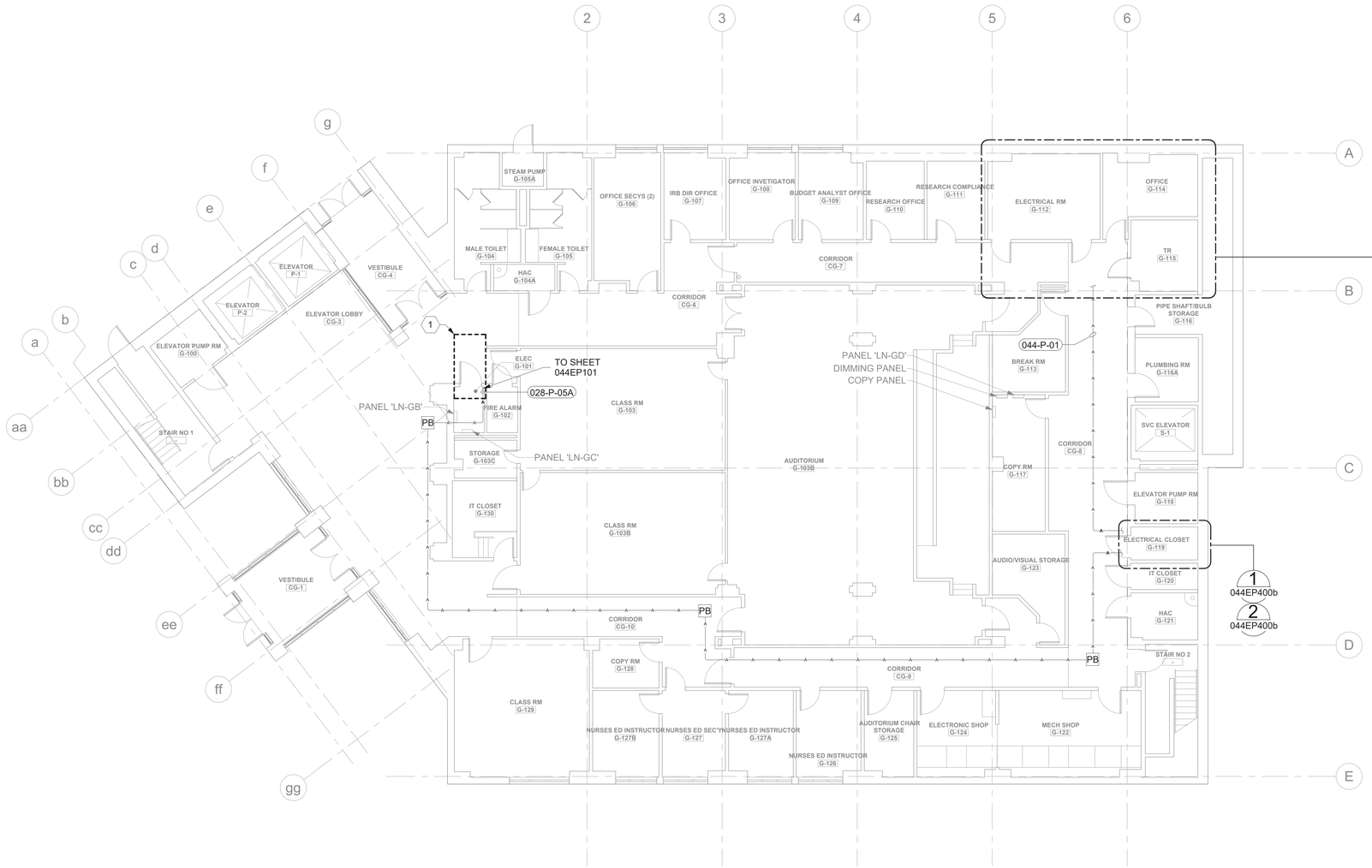
STATE OF WASHINGTON
55681
1-16-26
REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	BLDG 039 - LEVEL 03 - ENLARGED ELECTRICAL PLANS
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Project Number	405-22-700
Building Number	039
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Drawing Number	039EP403
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB



1 BLDG 044 - LEVEL 00 - ELECTRICAL PLAN
1/8" = 1'-0"

PROJECT NORTH

0 4' 8' 16'

LEGEND

PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.

- 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
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GENERAL NOTES

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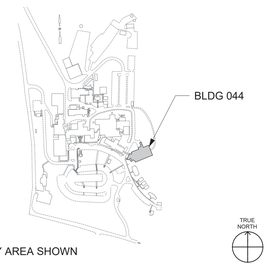
KEY NOTES

1. APPROXIMATE FOOTPRINT OF ROOM "1-103" LOCATED ON FLOOR ABOVE. FEEDERS ROUTE THROUGH VERTICALLY STACKED ROOM "G-101"; REFERENCE ELECTRICAL PLAN 044EP101 FOR ADDITIONAL INFORMATION.

KEY PLAN



KEY AREA SHOWN

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SDB SPEESDESIGNBUILD

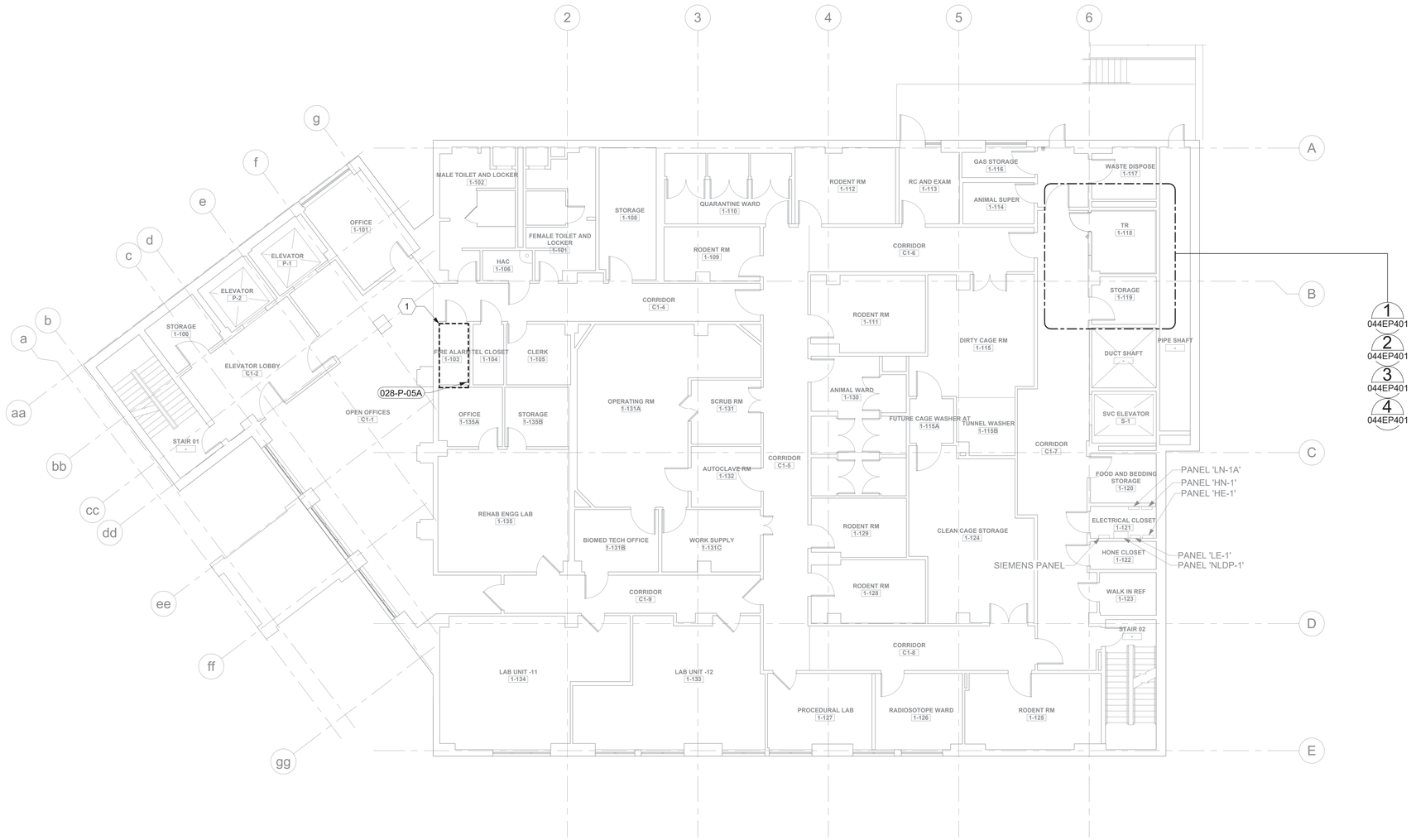
STAMP

LOUIS R. LITZKO STATE OF WASHINGTON 55681 1-16-26 REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	BLDG 044 - LEVEL 00 - ELECTRICAL PLAN
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Project Number	405-22-700
Building Number	044
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Drawing Number	044EP100
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB



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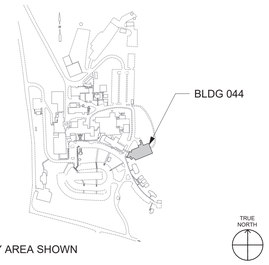
3. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BE INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFORM WITH VA STANDARDS.
4. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH EXISTING FIRE RATING OR NEW FIRE RATING, IF REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
5. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
6. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
7. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULLBOX PLACEMENT AND SIZING BY CONTACTOR. COORDINATE PULLBOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.

KEY NOTES

1. APPROXIMATE FOOTPRINT OF ROOM "2-101" LOCATED ON FLOOR ABOVE. FEEDERS ROUTE THROUGH VERTICALLY STACKED ROOM "1-103"; REFERENCE ELECTRICAL PLAN 044EP102 FOR ADDITIONAL INFORMATION.

KEY PLAN



1 BLDG 044 - LEVEL 01 - ELECTRICAL PLAN

1/8" = 1'-0"

PROJECT NORTH

0 4' 8' 16'

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

LOUIS R. LITZAU — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	BLDG 044 - LEVEL 01 - ELECTRICAL PLAN
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Project Number	405-22-700
Building Number	044
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Drawing Number	044EP101
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB

1 BLDG 044 - LEVEL 02 - ELECTRICAL PLAN

1/8" = 1'-0"

PROJECT NORTH

0 4' 8' 16'

LEGEND

PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.

- 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
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GENERAL NOTES

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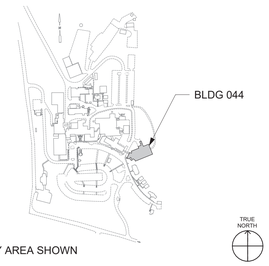
7. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULLBOX PLACEMENT AND SIZING BY CONTACTOR. COORDINATE PULLBOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.

KEY NOTES

1. APPROXIMATE FOOTPRINT OF ROOM "1-103" LOCATED ON FLOOR BELOW. FEEDERS ROUTE FROM VERTICALLY STACKED ROOM "1-103" TO ROOM "2-101"; REFERENCE ELECTRICAL PLAN 044EP101 FOR ADDITIONAL INFORMATION.

KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE

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LOUIS R. LITSTO — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

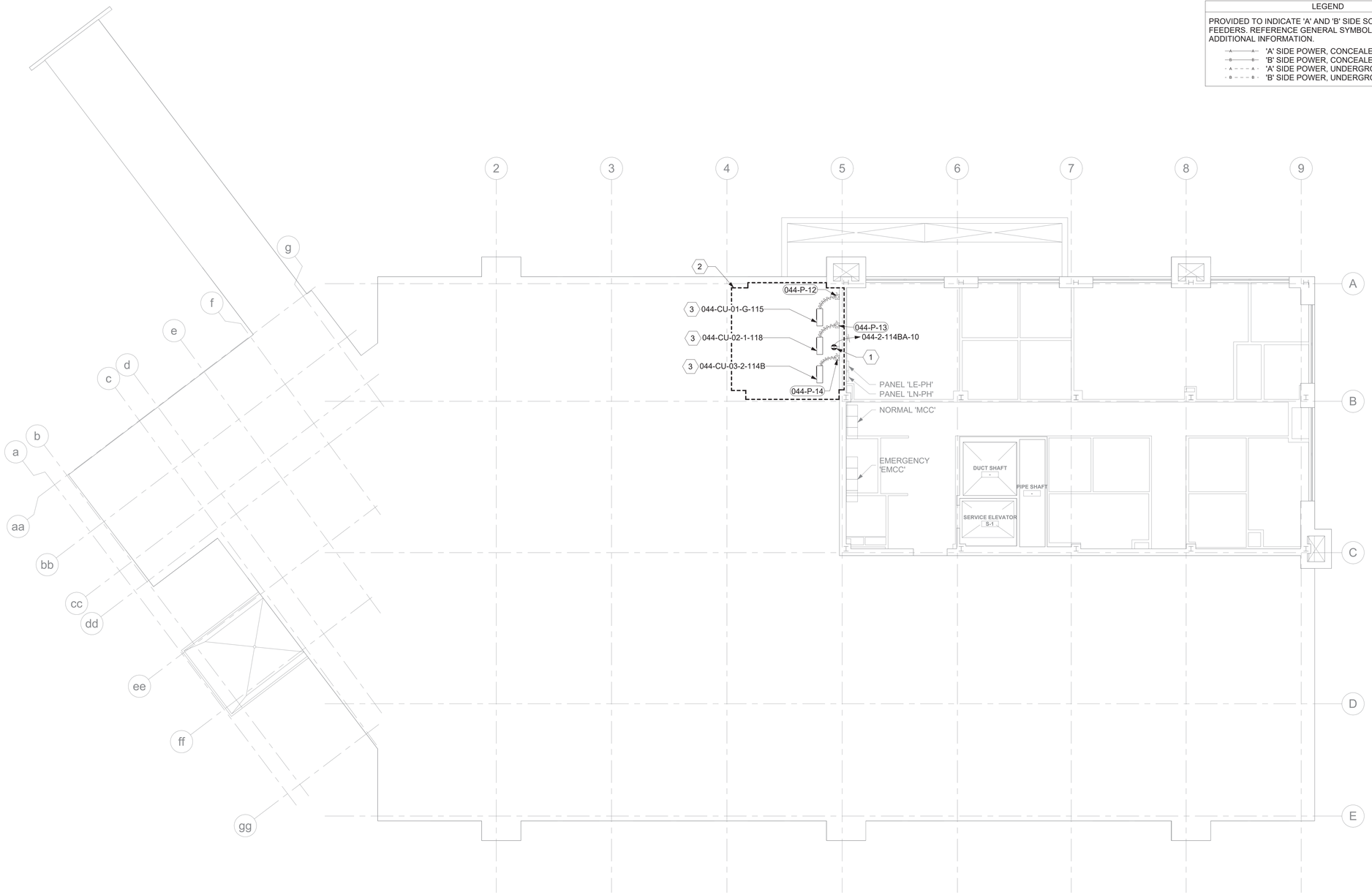
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 044 - LEVEL 02 - ELECTRICAL PLAN	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER	Project Number: 405-22-700
	Building Number: 044
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009	Drawing Number: 044EP102

Issue Date	Checked	Drawn
01/16/2026	NVP/DCW	RTS/KDB



LEGEND

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- 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
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GENERAL NOTES

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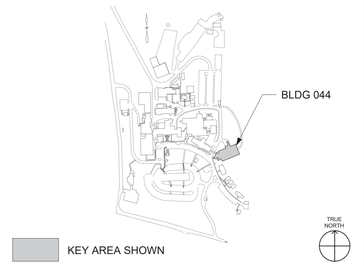
KEY NOTES

1. PROVIDE CONVENIENCE RECEPTACLE, 20A, 120V, GFCI, WR, WITH WHILE-IN-USE COVER.
2. APPROXIMATE FOOTPRINT OF LAB UNIT-2 ROOM '2-113' LOCATED ON FLOOR BELOW. REFERENCE SHEET 044EP102 FOR ADDITIONAL INFORMATION.
3. CONTRACTOR SHALL PROVIDE BOND FROM ROOFTOP MECHANICAL UNIT TO EXISTING BUILDING LIGHTNING PROTECTION SYSTEM ROOFTOP CONDUCTOR. CONTRACTOR SHALL COORDINATE WITH EXISTING BUILDING LIGHTNING PROTECTION SYSTEM AS REQUIRED. REFERENCE DETAIL '3' ON SHEET EP504 FOR ADDITIONAL INFORMATION.

KEY PLAN



1 BLDG 044 - PENTHOUSE - ELECTRICAL PLAN

1/8" = 1'-0"

PROJECT NORTH

0 4' 8' 16'

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

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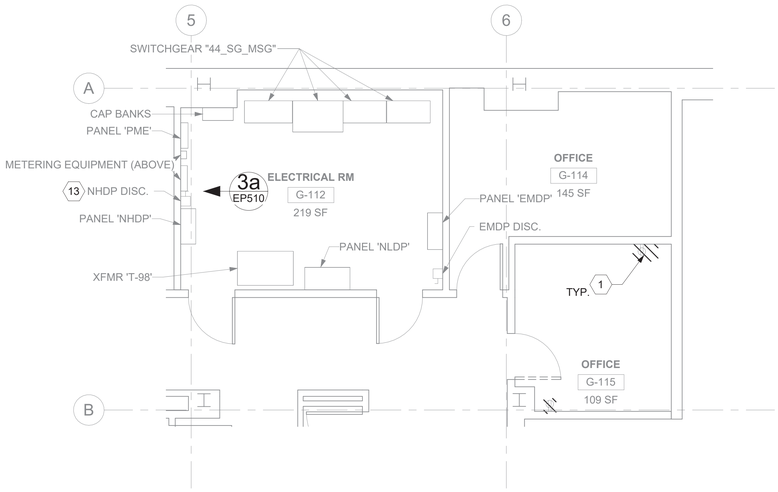
LOUIS R. LITESAO — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

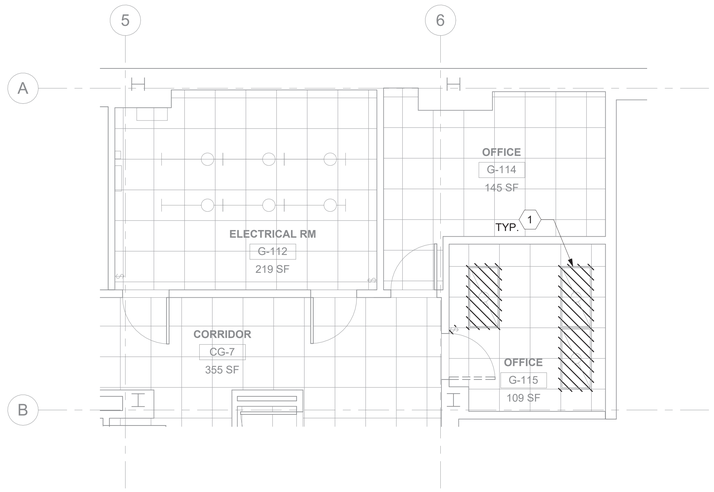
VA U.S. Department of Veterans Affairs

Drawing Title	BLDG 044 - PENTHOUSE - ELECTRICAL PLAN
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB
Project Number	405-22-700
Building Number	044
Drawing Number	044EP103



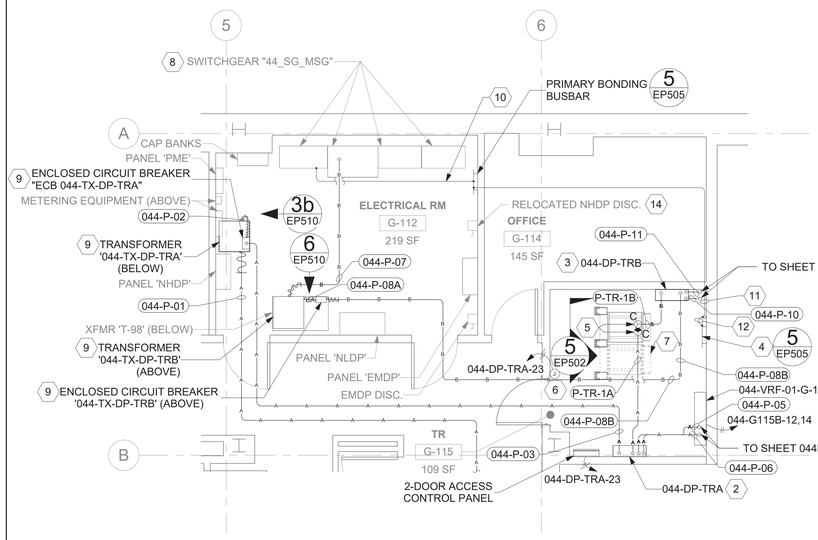
1 044EP100 RM G-112 & G-115 - DEMO ELECTRICAL PLAN

1/4" = 1'-0"



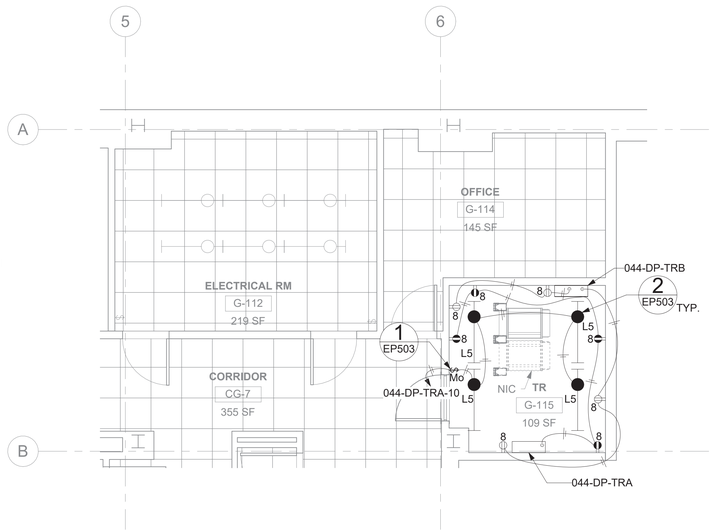
2 044EP100 RM G-112 & G-115 - DEMO LIGHTING PLAN

1/4" = 1'-0"



3 044EP100 RM G-112 & G-115 - ELECTRICAL PLAN

1/4" = 1'-0"



4 044EP100 RM G-112 & G-115 - LIGHTING AND RECEPTACLE PLAN

1/4" = 1'-0"

KEY NOTES

11 PROVIDE TBB AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.

12 PROVIDE SBC AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.

13 EQUIPMENT SHALL BE RELOCATED. PRESERVE AND PROTECT EXISTING BRANCH CIRCUIT FOR RE-TERMINATION.

14 RELOCATED DISCONNECT. EXTEND CONDUIT AND WIRE TO EXISTING PANELBOARD "NHDP"AS REQUIRED.

LEGEND

PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.

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- 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
- 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

GENERAL NOTES

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9. ALL RECEPTACLES AND SWITCHES SHALL BE PROVIDED WITH PANEL AND CIRCUIT LABELING LOCATED DIRECTLY ON THE WALL PLATE; IE:"P4-1", PANEL "4", CIRCUIT "1". REFERENCE WIRING DEVICE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEY NOTES

1 EXISTING EQUIPMENT SHALL BE DEMOLISHED. ASSOCIATED CONDUIT AND WIRE SHALL BE DEMOLISHED BACK TO SOURCE.

2 SOURCE A POWER PANELBOARD "044-DP-TRA".

3 SOURCE B POWER PANELBOARD "044-DP-TRB".

4 PROVIDE SECONDARY BONDING BUSBAR. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.

5 OVERHEAD TR RACK SOURCE A AND SOURCE B POWER RECEPTACLE.

6 FURNISH AND INSTALL POWER SUPPLY WITHIN JUNCTION BOX AS INDICATED ABOVE ACCESSIBLE CEILINGS. VERIFY LOCATIONS WITH ARCHITECT. PROVIDE (1) POWER SUPPLY FOR EACH DOOR OPENING. PROVIDE 120V POWER TO SERVE DOORS WITH ELECTRIFIED DOOR HARDWARE AND MAKE CONNECTIONS AS REQUIRED; REFERENCE PANEL SCHEDULE "044-G115A" FOR CIRCUITING INFORMATION. SEE REQUIREMENTS IN 08 71 00 - DOOR HARDWARE. COORDINATE WITH ARCHITECT AND DOOR INSTALLER.

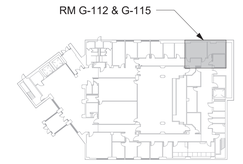
7 TELECOM RACK IS NOT IN CONTRACT (NIC). SPARE CIRCUIT BREAKER HAS BEEN PROVIDED FOR FUTURE EQUIPMENT. REFERENCE BUILDING 044 PANEL SCHEDULES FOR ADDITIONAL INFORMATION.

8 MODIFIED EQUIPMENT. REFERENCE BUILDING 044 ONE-LINE DIAGRAMS FOR ADDITIONAL INFORMATION.

9 PROVIDE EQUIPMENT AS INDICATED. REFERENCE ONE-LINE DIAGRAMS FOR ADDITIONAL INFORMATION.

10 PROVIDE TBC AS SHOWN. REFERENCE TELECOM BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.

KEY PLAN



SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
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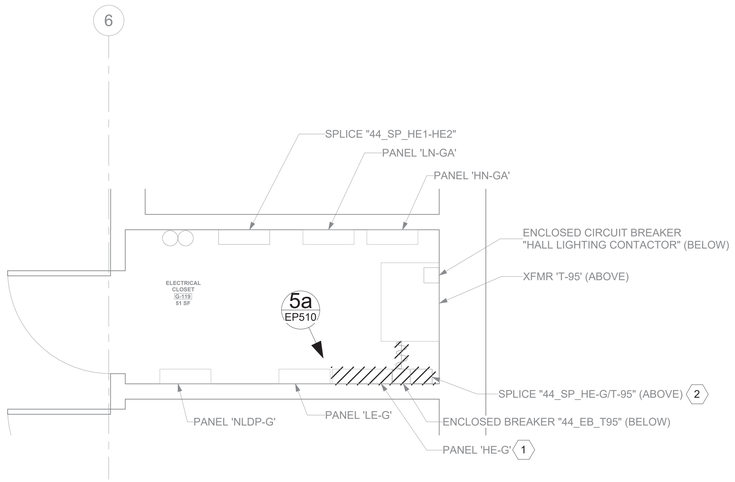
STAMP

LOUIS R. LUTZKO — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

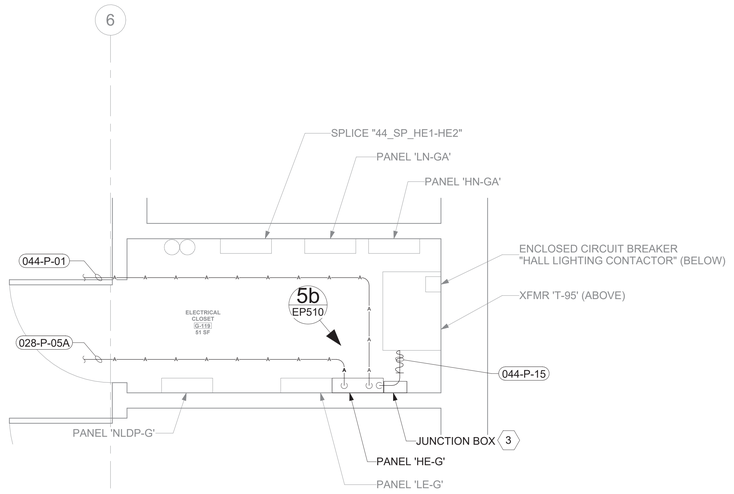
VA U.S. Department of Veterans Affairs

Drawing Title	BLDG 044 - LEVEL 00 - ENLARGED ELECTRICAL PLANS
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Project Number	405-22-700
Building Number	044
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Drawing Number	044EP400a
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB



1 044EP100 RM G-119 - DEMO FLOOR PLAN

1/2" = 1'-0"



2 044EP100 RM G-119 - ELECTRICAL PLAN

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LEGEND

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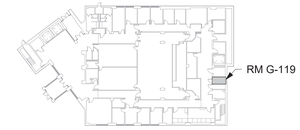
9. ALL RECEPTACLES AND SWITCHES SHALL BE PROVIDED WITH PANEL AND CIRCUIT LABELING LOCATED DIRECTLY ON THE WALL PLATE; IE:"P4-1", PANEL "4", CIRCUIT "1". REFERENCE WIRING DEVICE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEY NOTES

1. EXISTING PANELBOARD SHALL BE DEMOLISHED AND REPLACED AS INDICATED. PRESERVE AND PROTECT EXISTING BRANCH CIRCUITS FOR RE-TERMINATION TO REVISED EQUIPMENT; PROVIDE JUNCTION BOXES (QUANTITY AS REQUIRED) TO HOUSE CONDUCTOR TERMINATIONS. SIZE JUNCTION BOXES PER NEC. COORDINATE FINAL JUNCTION BOX LOCATIONS WITH EXISTING CONDITIONS AND EQUIPMENT AS REQUIRED. REFERENCE BUILDING 044 ONE-LINE DIAGRAMS FOR ADDITIONAL INFORMATION.
2. DEMOLISH EXISTING FEEDERS INSIDE SPLICE BOX FEEDING EQUIPMENT TRANSFORMER "T-95" AND PANELBOARD "HE-G". EXISTING UPSTREAM FEEDER FROM "ATS_45-1" SHALL BE PRESERVED AND PULLED BACK FOR RETERMINATION. DEMOLISH SPLICE BOX. REFERENCE ONE-LINE DIAGRAMS ON SHEETS 044ED601 AND 044EP601 FOR ADDITIONAL INFORMATION.
3. PROVIDE JUNCTION BOX AND INSULATED TAPS TO EXTEND EXISTING CONDUIT AND WIRE AS REQUIRED. REFERENCE ONE-LINE DIAGRAM ON SHEET 044EP611 FOR ADDITIONAL INFORMATION.

KEY PLAN



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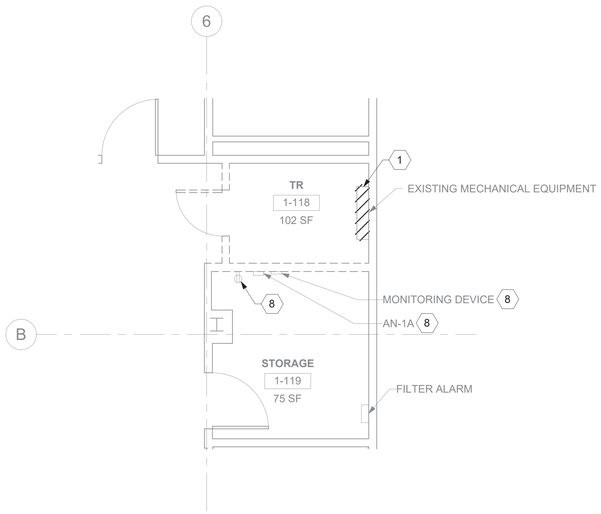
Office of Construction and Facilities Management

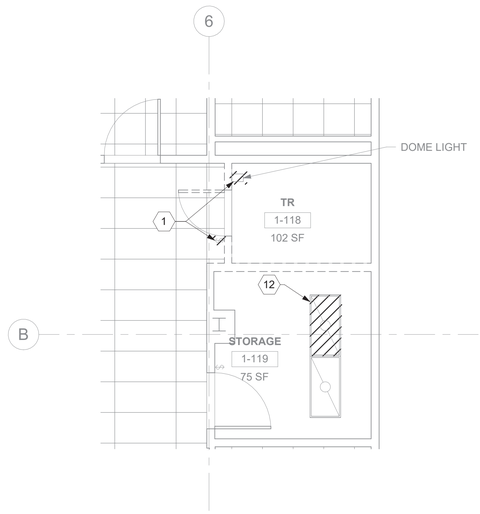
VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 044 - LEVEL 00 - ENLARGED ELECTRICAL PLANS	Phase: 100% CONSTRUCTION DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER	Project Number: 405-22-700
Approved:	FULLY SPRINKLERED	Location: VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009	Building Number: 044
		Issue Date: 01/16/2026 / Checked: NVP/DCW / Drawn: RTS/KDB	Drawing Number: 044EP400b



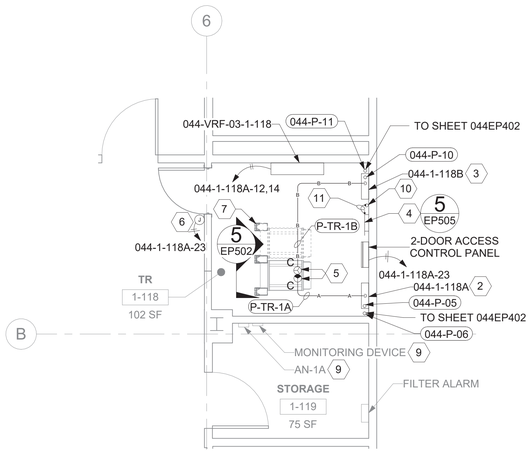
1 044EP101 RM 1-118 & 1-119 - DEMO ELECTRICAL PLAN

1/4" = 1'-0"



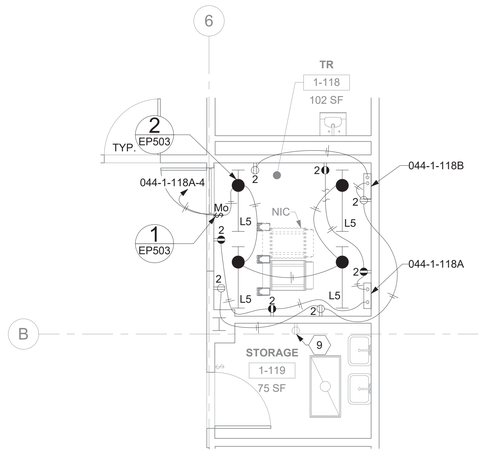
2 044EP101 RM 1-118 & 1-119 - DEMO LIGHTING PLAN

1/4" = 1'-0"



3 044EP101 RM 1-118 - ELECTRICAL PLAN

1/4" = 1'-0"



4 044EP101 RM 1-118 - LIGHTING AND RECEPTACLE PLAN

1/4" = 1'-0"

KEY NOTES

10 PROVIDE TBB AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.

11 PROVIDE SBC AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.

12 EXISTING EQUIPMENT SHALL BE DEMOLISHED. ASSOCIATED RACEWAYS AND CONDUCTORS SHALL BE DEMOLISHED BACK TO SOURCE. EXTEND EXISTING RACEWAYS AND CONDUCTORS TO MAINTAIN CIRCUITRY TO REMAIN.

LEGEND

PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.

- 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
- 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

GENERAL NOTES

1. DEMOLITION PLANS/NOTES ARE BASED ON SITE INVESTIGATIONS AND RECORD DRAWINGS. IF DISCREPANCIES ARE FOUND THAT MAY IMPACT WORK, PROMPTLY NOTIFY VA AND ENGINEER OF SAID DISCREPANCY.
2. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL DEMOLISH ALL ELECTRICAL EQUIPMENT, CONDUCTORS AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION, UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BE INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFORM WITH VA STANDARDS.
5. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH EXISTING FIRE RATING OR NEW FIRE RATING, IF REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
6. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
7. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
8. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULL BOX PLACEMENT AND SIZING BY CONTRACTOR. COORDINATE PULL BOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.
9. ALL RECEPTACLES AND SWITCHES SHALL BE PROVIDED WITH PANEL AND CIRCUIT LABELING LOCATED DIRECTLY ON THE WALL PLATE; IE:"P4-1", PANEL "4", CIRCUIT "1". REFERENCE WIRING DEVICE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEY NOTES

1 EXISTING EQUIPMENT SHALL BE DEMOLISHED. ASSOCIATED CONDUIT AND WIRE SHALL BE DEMOLISHED BACK TO SOURCE.

2 SOURCE A POWER PANELBOARD "044-1-118A".

3 SOURCE B POWER PANELBOARD "044-1-118B".

4 PROVIDE SECONDARY BONDING BUSBAR. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.

5 OVERHEAD TR RACK SOURCE A AND SOURCE B POWER RECEPTACLE.

6 FURNISH AND INSTALL POWER SUPPLY WITHIN JUNCTION BOX AS INDICATED ABOVE ACCESSIBLE CEILINGS. VERIFY LOCATIONS WITH ARCHITECT. PROVIDE (1) POWER SUPPLY FOR EACH DOOR OPENING. PROVIDE 120V POWER TO SERVE DOORS WITH ELECTRIFIED DOOR HARDWARE AND MAKE CONNECTIONS AS REQUIRED; REFERENCE PANEL SCHEDULE "044-1-118A" FOR CIRCUITING INFORMATION. SEE REQUIREMENTS IN 08 71 00 - DOOR HARDWARE. COORDINATE WITH ARCHITECT AND DOOR INSTALLER.

7 TELECOM RACK IS NOT IN CONTRACT (NIC). SPARE CIRCUIT BREAKER HAS BEEN PROVIDED FOR FUTURE EQUIPMENT. REFERENCE BUILDING 044 PANEL SCHEDULES FOR ADDITIONAL INFORMATION.

8 EQUIPMENT SHALL BE RELOCATED. PRESERVE AND PROTECT RACEWAYS AND CONDUCTORS FOR RE-TERMINATION.

9 RELOCATED EQUIPMENT. RE-TERMINATE TO EXISTING CIRCUITS. EXTEND RACEWAYS AND CONDUCTORS AS NECESSARY.

KEY PLAN

SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

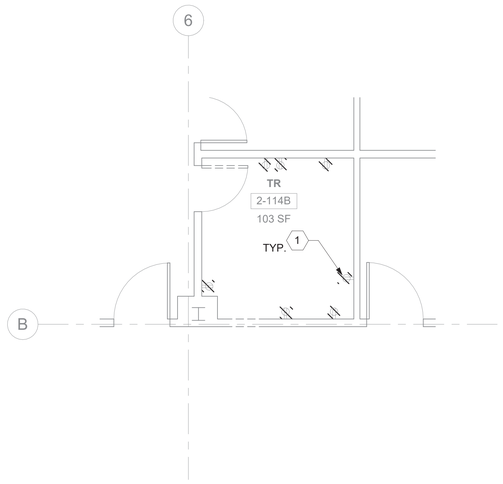
LOUIS R. LUTZAO
STATE OF WASHINGTON
55681
1-16-26
REGISTERED
PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

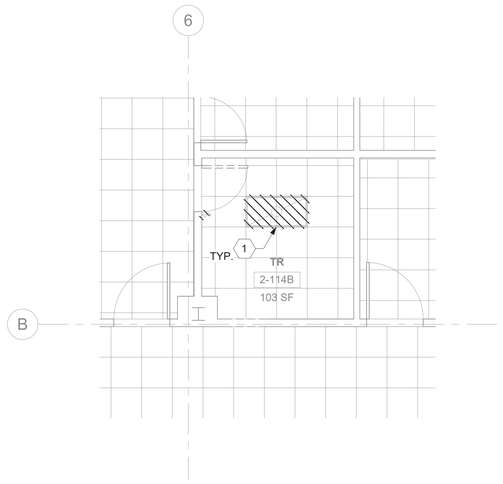
Drawing Title: BLDG 044 - LEVEL 01 - ENLARGED ELECTRICAL PLANS	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER		Project Number: 405-22-700
		Building Number: 044
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009		Drawing Number: 044EP401
Issue Date: 01/16/2026	Checked: NVP/DCW	Drawn: RTS/KDB



1 044EP102 RM 2-114B - DEMO ELECTRICAL PLAN

1/4" = 1'-0"



2 044EP102 RM 2-114B - DEMO LIGHTING PLAN

1/4" = 1'-0"

LEGEND

PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.

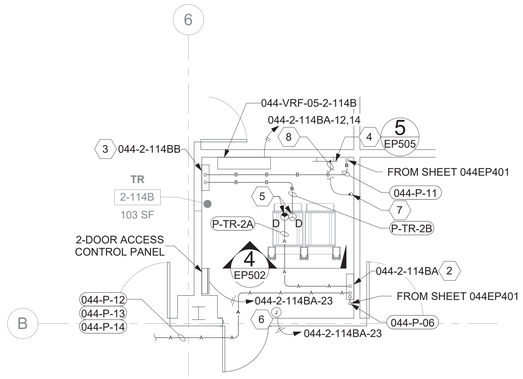
- 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
- 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

GENERAL NOTES

1. DEMOLITION PLANS/NOTES ARE BASED ON SITE INVESTIGATIONS AND RECORD DRAWINGS. IF DISCREPANCIES ARE FOUND THAT MAY IMPACT WORK, PROMPTLY NOTIFY VA AND ENGINEER OF SAID DISCREPANCY.
2. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL DEMOLISH ALL ELECTRICAL EQUIPMENT, CONDUCTORS AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION, UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BE INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFORM WITH VA STANDARDS.
5. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH EXISTING FIRE RATING OR NEW FIRE RATING, IF REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
6. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
7. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
8. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULL BOX PLACEMENT AND SIZING BY CONTRACTOR. COORDINATE PULL BOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.
9. ALL RECEPTACLES AND SWITCHES SHALL BE PROVIDED WITH PANEL AND CIRCUIT LABELING LOCATED DIRECTLY ON THE WALL PLATE; IE:"P4-1", PANEL "4", CIRCUIT "1". REFERENCE WIRING DEVICE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

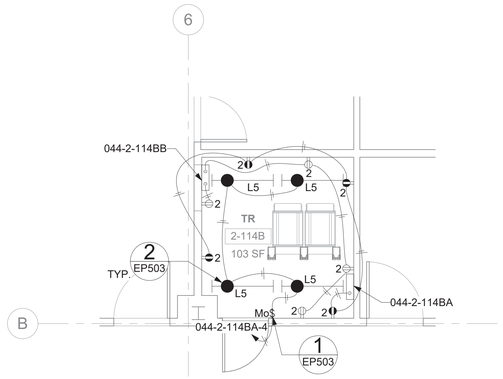
KEY NOTES

1. EXISTING EQUIPMENT SHALL BE DEMOLISHED. ASSOCIATED CONDUIT AND WIRE SHALL BE DEMOLISHED BACK TO SOURCE.
2. SOURCE A POWER PANELBOARD "044-2-114BA".
3. SOURCE B POWER PANELBOARD "044-2-114BA".
4. PROVIDE SECONDARY BONDING BUSBAR. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.
5. OVERHEAD TR RACK SOURCE A AND SOURCE B POWER RECEPTACLE.
6. FURNISH AND INSTALL POWER SUPPLY WITHIN JUNCTION BOX AS INDICATED ABOVE ACCESSIBLE CEILINGS. VERIFY LOCATIONS WITH ARCHITECT. PROVIDE (1) POWER SUPPLY FOR EACH DOOR OPENING. PROVIDE 120V POWER TO SERVE DOORS WITH ELECTRIFIED DOOR HARDWARE AND MAKE CONNECTIONS AS REQUIRED; REFERENCE PANEL SCHEDULE "044-2-114BA" FOR CIRCUITING INFORMATION. SEE REQUIREMENTS IN 08 71 00 - DOOR HARDWARE. COORDINATE WITH ARCHITECT AND DOOR INSTALLER.
7. PROVIDE TBB AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.
8. PROVIDE SBC AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.



3 044EP102 RM 2-114B - ELECTRICAL PLAN

1/4" = 1'-0"



4 044EP102 RM 2-114B - LIGHTING AND RECEPTACLE PLAN

1/4" = 1'-0"

KEY PLAN

SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

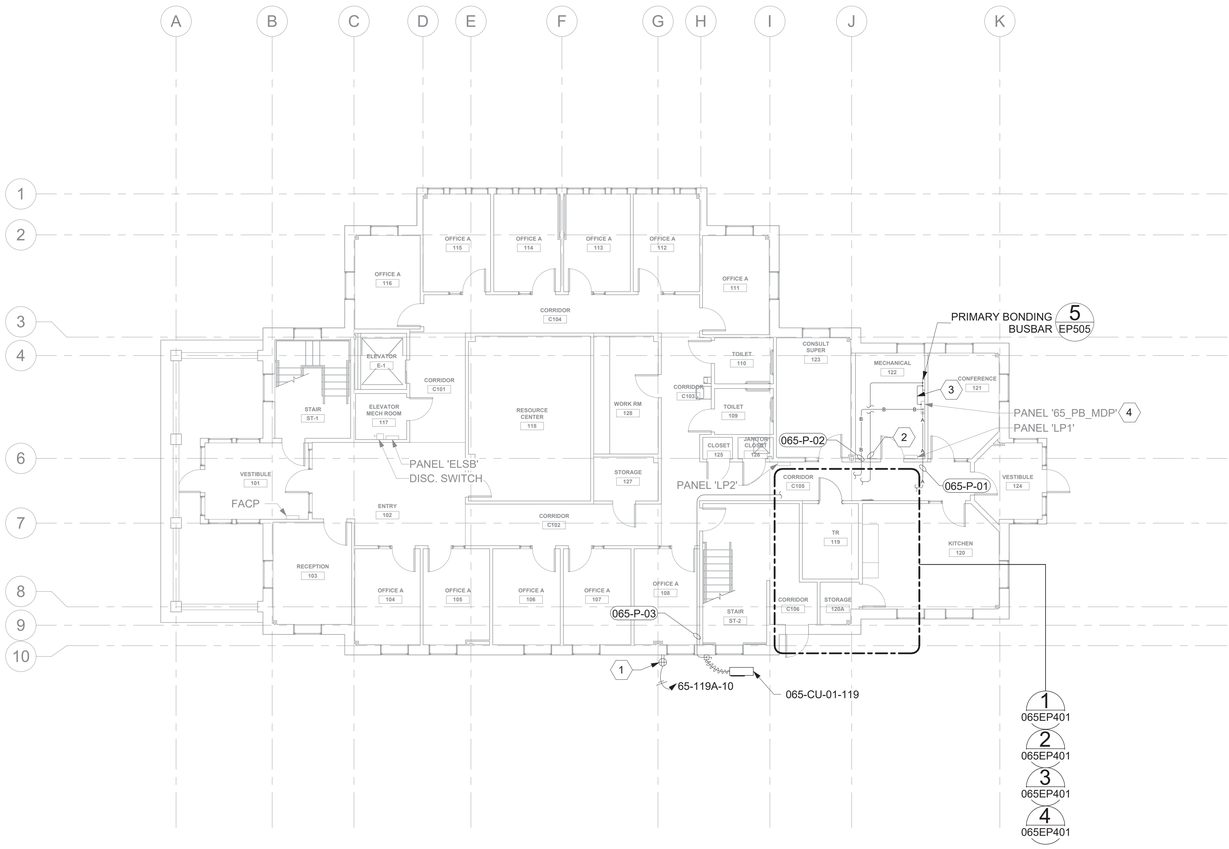
LOUIS R. LITZAO — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 044 - LEVEL 02 - ENLARGED ELECTRICAL PLANS	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER			Project Number: 405-22-700
			Building Number: 044
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009			Drawing Number: 044EP402
Issue Date: 01/16/2026	Checked: NVP/DCW	Drawn: RTS/KDB	



1 BLDG 065 - LEVEL 01 - ELECTRICAL PLAN

1/8" = 1'-0"

PROJECT NORTH

0 4' 8' 16'

LEGEND

PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.

- 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
- 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

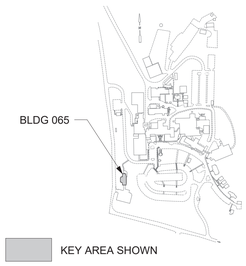
GENERAL NOTES

1. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL REMOVE ALL ELECTRICAL EQUIPMENT, CONDUCTORS, AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION OF MILLWORK.
3. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BE INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFORM WITH VA STANDARDS.
4. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH EXISTING FIRE RATING OR NEW FIRE RATING, IF REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
5. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
6. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
7. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULLBOX PLACEMENT AND SIZING BY CONTACTOR. COORDINATE PULLBOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.

KEY NOTES

1. PROVIDE CONVENIENCE RECEPTACLE, 20A, 120V, GFCI, WR, WITH WHILE-IN-USE COVER.
2. PROVIDE TBB AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.
3. PROVIDE TBC AS SHOWN. REFERENCE TELECOM BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.
4. MODIFIED EQUIPMENT. REFERENCE BUILDING 065 ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.

KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

LOUIS R. LITZKO
STATE OF WASHINGTON
55681
1-16-26
REGISTERED
PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 065 - LEVEL 01 - ELECTRICAL PLAN

Approved:

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER

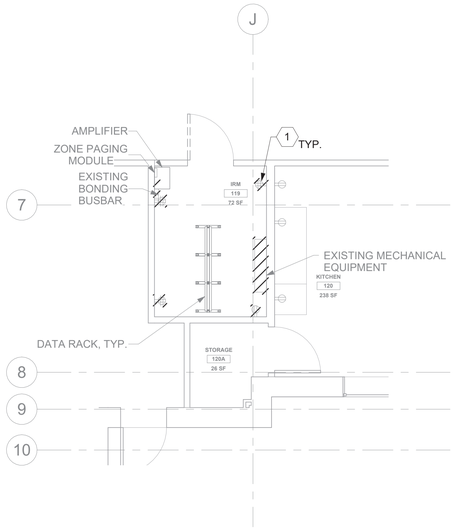
Location: VA VT WHITE RIVER JUNCTION
163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009

Project Number: 405-22-700

Building Number: 065

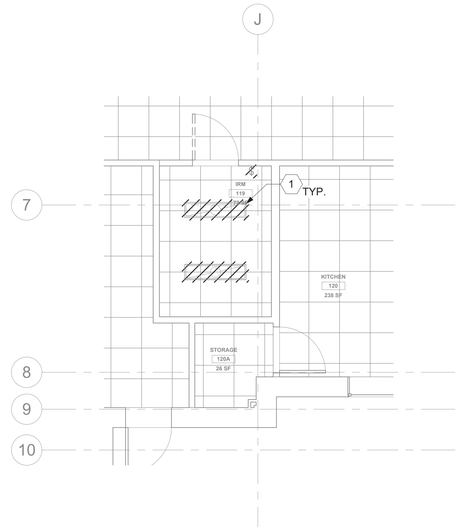
Drawing Number: 065EP101

Issue Date	Checked	Drawn
01/16/2026	NVP/DCW	RTS/KDB



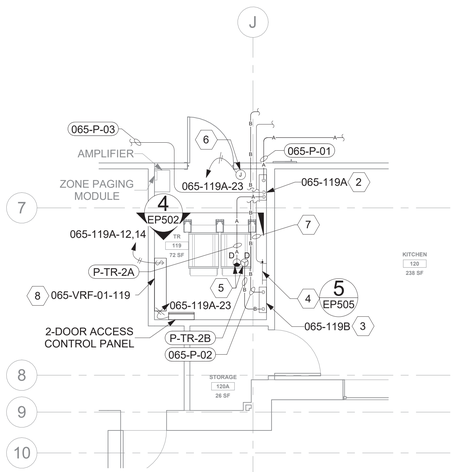
1 065EP101 RM 119 - DEMO ELECTRICAL PLAN

1/4" = 1'-0"



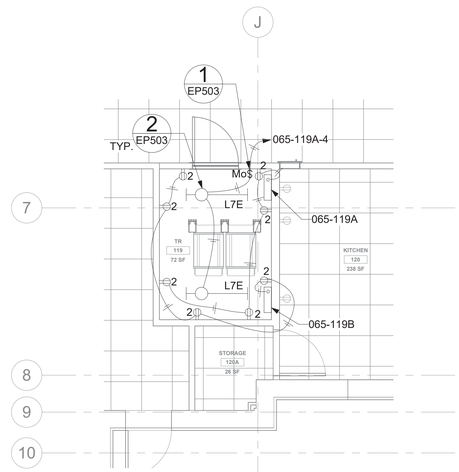
2 065EP101 RM 119 - DEMO LIGHTING PLAN

1/4" = 1'-0"



3 065EP101 RM 119 - ELECTRICAL PLAN

1/4" = 1'-0"



4 065EP101 RM 119 - LIGHTING AND RECEPTACLE PLAN

1/4" = 1'-0"

LEGEND

PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.

- 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
- 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

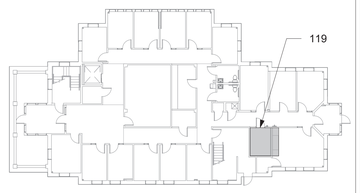
GENERAL NOTES

1. DEMOLITION PLANS/NOTES ARE BASED ON SITE INVESTIGATIONS AND RECORD DRAWINGS. IF DISCREPANCIES ARE FOUND THAT MAY IMPACT WORK, PROMPTLY NOTIFY VA AND ENGINEER OF SAID DISCREPANCY.
2. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL DEMOLISH ALL ELECTRICAL EQUIPMENT, CONDUCTORS AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION, UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BE INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFORM WITH VA STANDARDS.
5. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH EXISTING FIRE RATING OR NEW FIRE RATING, IF REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
6. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
7. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
8. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULL BOX PLACEMENT AND SIZING BY CONTRACTOR. COORDINATE PULL BOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.
9. ALL RECEPTACLES AND SWITCHES SHALL BE PROVIDED WITH PANEL AND CIRCUIT LABELING LOCATED DIRECTLY ON THE WALL PLATE; IE:"P4-1", PANEL "4", CIRCUIT "1". REFERENCE WIRING DEVICE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEY NOTES

1. EXISTING EQUIPMENT SHALL BE DEMOLISHED. ASSOCIATED CONDUIT AND WIRE SHALL BE DEMOLISHED BACK TO SOURCE.
2. SOURCE A POWER PANELBOARD "065-119A".
3. SOURCE B POWER PANELBOARD "065-119B".
4. PROVIDE SECONDARY BONDING BUSBAR. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.
5. OVERHEAD TR RACK SOURCE A AND SOURCE B POWER RECEPTACLE.
6. FURNISH AND INSTALL POWER SUPPLY WITHIN JUNCTION BOX AS INDICATED ABOVE ACCESSIBLE CEILINGS. VERIFY LOCATIONS WITH ARCHITECT. PROVIDE (1) POWER SUPPLY FOR EACH DOOR OPENING. PROVIDE 120V POWER TO SERVE DOORS WITH ELECTRIFIED DOOR HARDWARE AND MAKE CONNECTIONS AS REQUIRED; REFERENCE PANEL SCHEDULE "065-119A" FOR CIRCUITING INFORMATION. SEE REQUIREMENTS IN 08 71 00 - DOOR HARDWARE. COORDINATE WITH ARCHITECT AND DOOR INSTALLER.
7. PROVIDE TBB AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.
8. PROVIDE EQUIPMENT WITH MOTOR RATED SWITCH.

KEY PLAN



SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

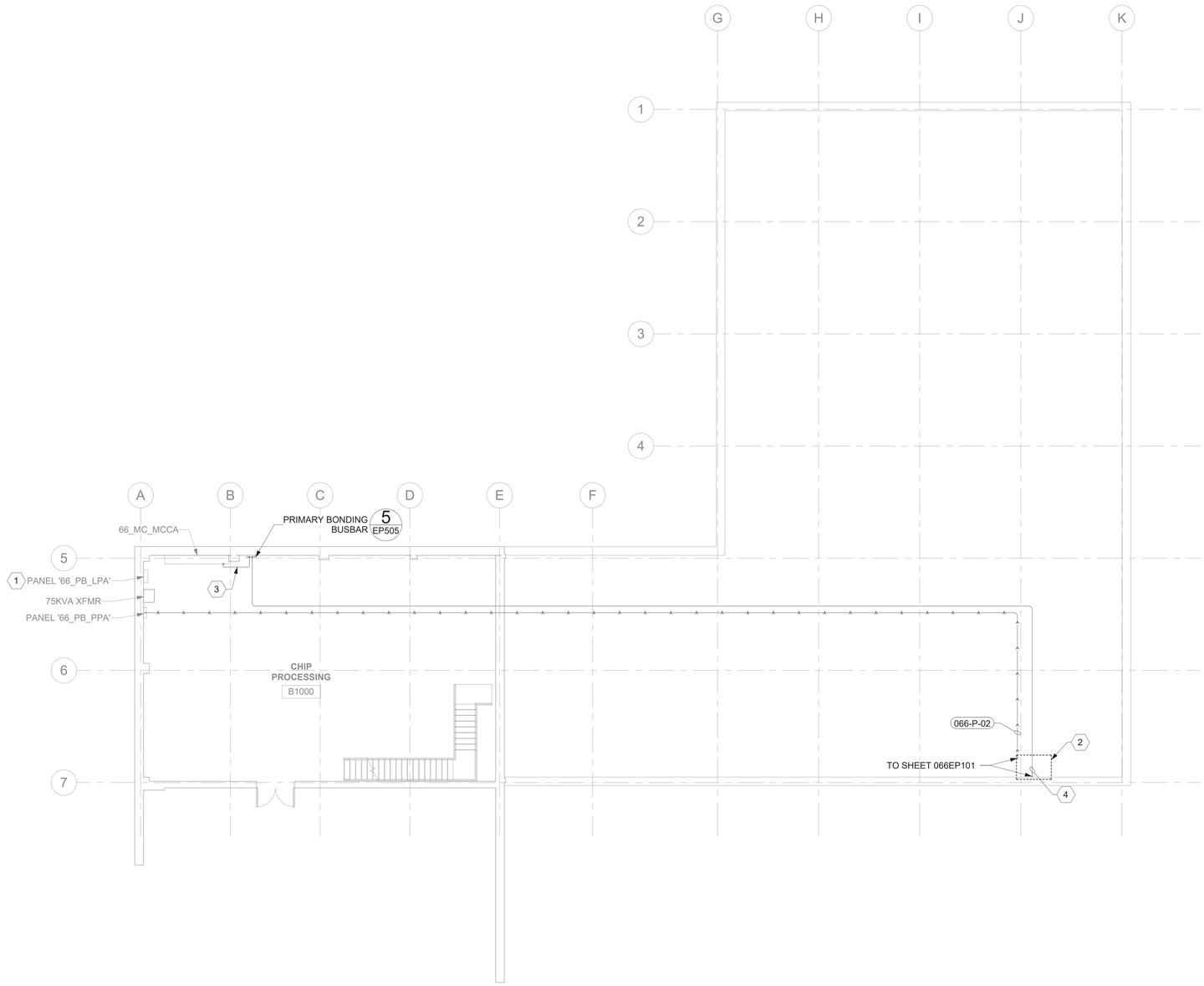
LOUIS R. LITZKO — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 065 - LEVEL 01 - ENLARGED ELECTRICAL PLANS	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER			Project Number: 405-22-700
			Building Number: 065
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009			Drawing Number: 065EP401
Issue Date: 01/16/2026	Checked: NVP/DCW	Drawn: RTS/KDB	



1 - BLDG 066 - LEVEL 00 - ELECTRICAL PLAN

1/8" = 1'-0"

PROJECT NORTH

0 4' 8' 16'

LEGEND

PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.

- 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
- 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

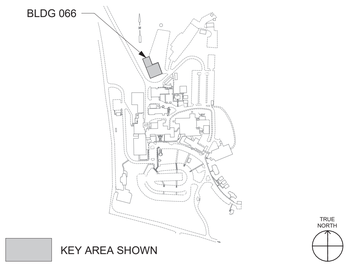
GENERAL NOTES

1. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL REMOVE ALL ELECTRICAL EQUIPMENT, CONDUCTORS, AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION OF MILLWORK.
3. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BE INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFORM WITH VA STANDARDS.
4. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH EXISTING FIRE RATING OR NEW FIRE RATING, IF REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
5. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
6. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
7. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULLBOX PLACEMENT AND SIZING BY CONTACTOR. COORDINATE PULLBOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.

KEY NOTES

1. MODIFIED EQUIPMENT. REFERENCE BUILDING 066 ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
2. APPROXIMATE FOOTPRINT OF TE "1006A" LOCATED ON FLOOR ABOVE. REFERENCE ENLARGED ELECTRICAL PLANS 066EP401 FOR ADDITIONAL INFORMATION.
3. PROVIDE TBC AS SHOWN. REFERENCE TELECOM BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.
4. PROVIDE TBB AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.

KEY PLAN



KEY AREA SHOWN

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

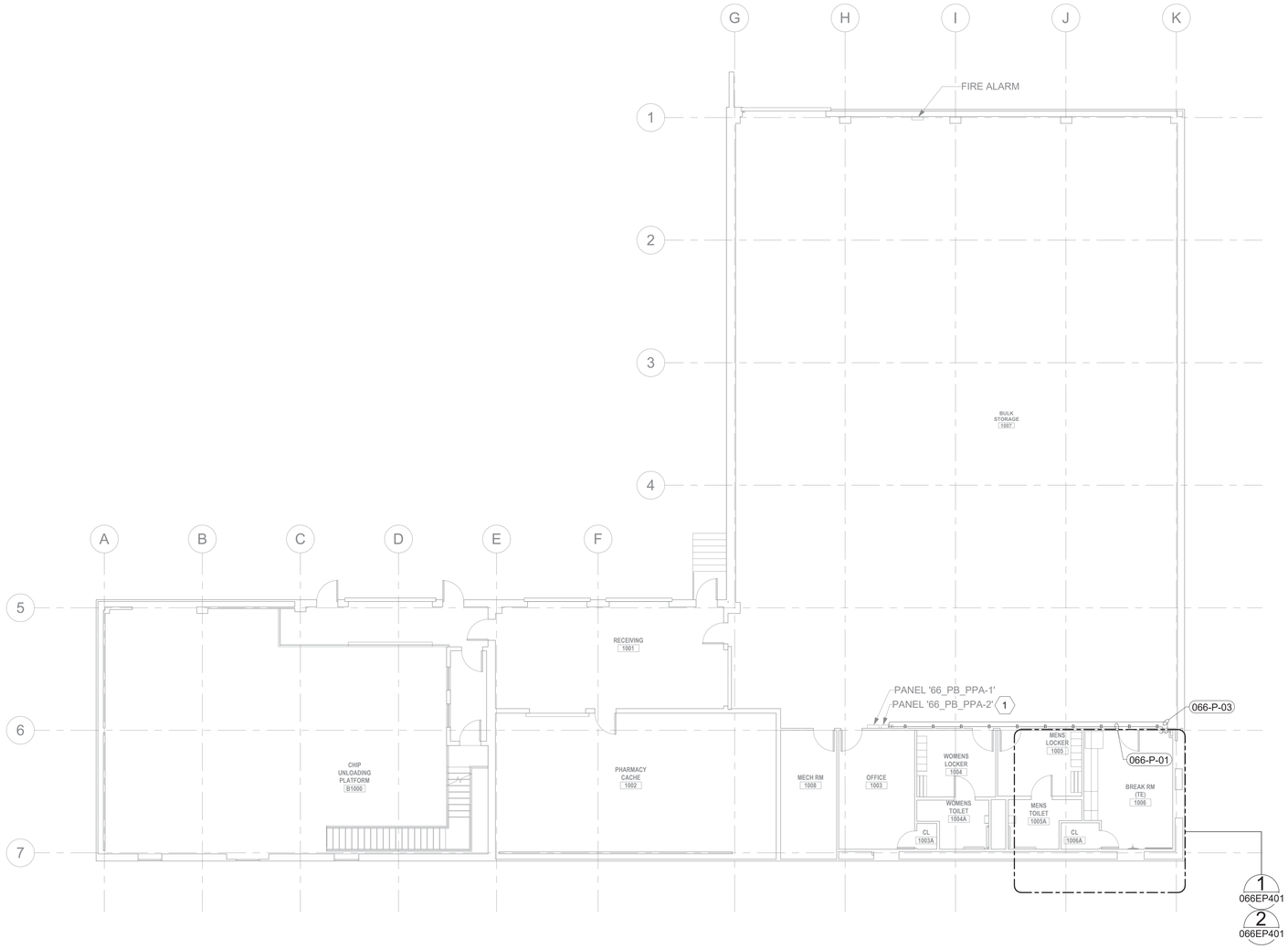
STAMP

LOUIS R. LITZAO
STATE OF WASHINGTON
55681
1-16-26
REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	BLDG 066 - LEVEL 00 - ELECTRICAL PLAN
Approved:	
Phase	100% CONSTRUCTION DOCUMENTS
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB
Project Number	405-22-700
Building Number	066
Drawing Number	066EP100



1 BLDG 066 - LEVEL 01 - ELECTRICAL PLAN

1/8" = 1'-0"

PROJECT NORTH

0 4' 8' 16'

LEGEND
PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.
—A— A— 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
—B— B— 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
- A - - - A - 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
- B - - - B - 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

GENERAL NOTES

1. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL REMOVE ALL ELECTRICAL EQUIPMENT, CONDUCTORS, AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION OF MILLWORK.
3. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BE INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFORM WITH VA STANDARDS.
4. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH EXISTING FIRE RATING OR NEW FIRE RATING, IF REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
5. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
6. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
7. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULLBOX PLACEMENT AND SIZING BY CONTACTOR. COORDINATE PULLBOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.

KEY NOTES

1 MODIFIED EQUIPMENT. REFERENCE BUILDING 066 ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.

KEY PLAN

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SDB SPEESDESIGNBUILD

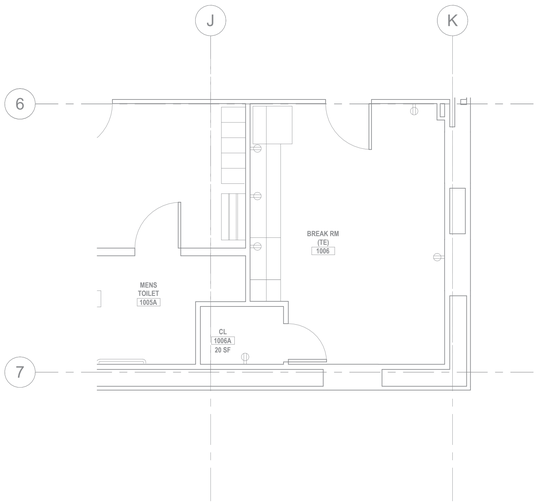
STAMP

LOUIS R. LITZAO — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 066 - LEVEL 01 - ELECTRICAL PLAN	Phase: 100% CONSTRUCTION DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER	Project Number: 405-22-700
Approved:	FULLY SPRINKLERED	Location: VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009	Building Number: 066
		Issue Date: 01/16/2026 / Checked: NVP/DCW / Drawn: RTS/KDB	Drawing Number: 066EP101

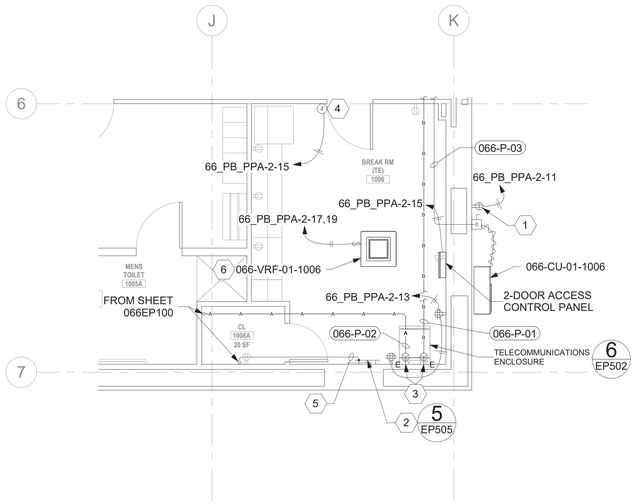


1 RM 1006B - DEMOLITION ELECTRICAL PLAN

066EP101 1/4" = 1'-0"

PROJECT NORTH

0 2' 4' 8'



2 RM 1006 - ELECTRICAL PLAN

066EP101 1/4" = 1'-0"

PROJECT NORTH

0 2' 4' 8'

LEGEND
PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.
A — A — 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
B — B — 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
A - - - A - 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
B - - - B - 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

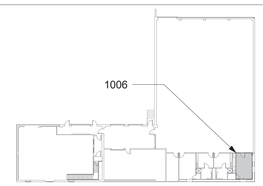
GENERAL NOTES

1. DEMOLITION PLANS/NOTES ARE BASED ON SITE INVESTIGATIONS AND RECORD DRAWINGS. IF DISCREPANCIES ARE FOUND THAT MAY IMPACT WORK, PROMPTLY NOTIFY VA AND ENGINEER OF SAID DISCREPANCY.
2. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL DEMOLISH ALL ELECTRICAL EQUIPMENT, CONDUCTORS AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION, UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BE INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFORM WITH VA STANDARDS.
5. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH EXISTING FIRE RATING OR NEW FIRE RATING, IF REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
6. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
7. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
8. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULL BOX PLACEMENT AND SIZING BY CONTRACTOR. COORDINATE PULL BOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.
9. ALL RECEPTACLES AND SWITCHES SHALL BE PROVIDED WITH PANEL AND CIRCUIT LABELING LOCATED DIRECTLY ON THE WALL PLATE; IE:"P4-1", PANEL "4", CIRCUIT "1". REFERENCE WIRING DEVICE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEY NOTES

1. PROVIDE CONVENIENCE RECEPTACLE, 20A, 120V, GFCI, WR, WITH WHILE-IN-USE COVER.
2. PROVIDE SECONDARY BONDING BUSBAR. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.
3. TE SOURCE A AND SOURCE B POWER RECEPTACLE.
4. FURNISH AND INSTALL POWER SUPPLY WITHIN JUNCTION BOX AS INDICATED ABOVE ACCESSIBLE CEILINGS. VERIFY LOCATIONS WITH ARCHITECT. PROVIDE (1) POWER SUPPLY FOR EACH DOOR OPENING. PROVIDE 120V POWER TO SERVE DOORS WITH ELECTRIFIED DOOR HARDWARE AND MAKE CONNECTIONS AS REQUIRED; REFERENCE PANEL SCHEDULE "066-1007A" FOR CIRCUITING INFORMATION. SEE REQUIREMENTS IN 08 71 00 - DOOR HARDWARE.
5. PROVIDE TBB AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.
6. PROVIDE EQUIPMENT WITH MOTOR RATED SWITCH.

KEY PLAN



SHOWN AREA

PROJECT NORTH

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SDB SPEESDESIGNBUILD

STAMP

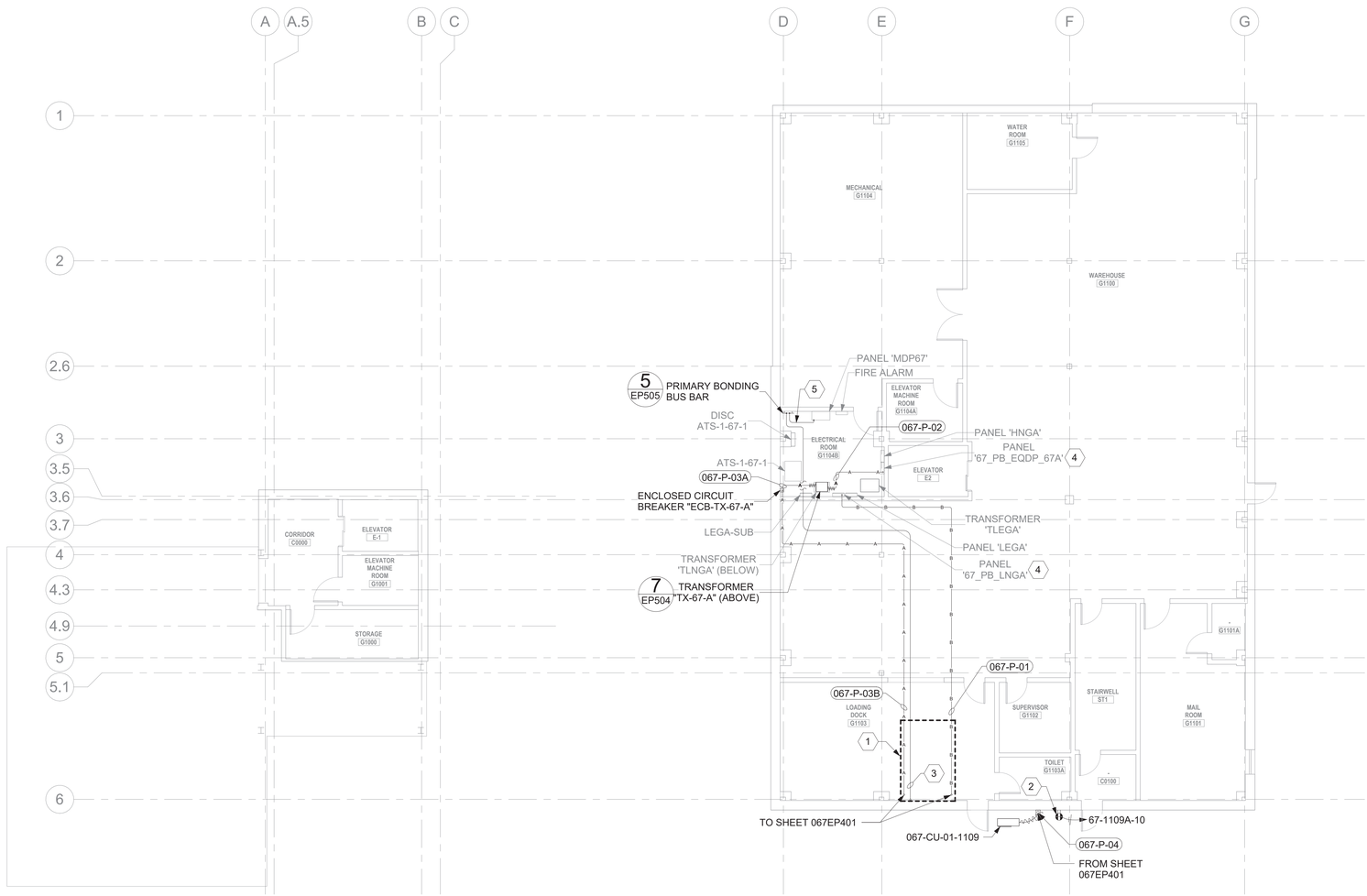
LOUIS R. LITZKE — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 066 - LEVEL 01 - ENLARGED ELECTRICAL PLANS	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER	Project Number: 405-22-700
	Building Number: 066
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009	Drawing Number: 066EP401
Issue Date: 01/16/2026 / Checked: NVP/DCW / Drawn: RTS/KDB	



1 BLDG 067 - LEVEL 00G - ELECTRICAL PLAN

1/8" = 1'-0"

PROJECT NORTH

0 4' 8' 16'

LEGEND
PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.
'A' SIDE POWER, CONCEALED WHERE POSSIBLE
'B' SIDE POWER, CONCEALED WHERE POSSIBLE
'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

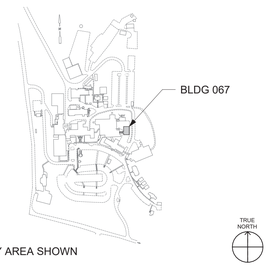
GENERAL NOTES

1. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL REMOVE ALL ELECTRICAL EQUIPMENT, CONDUCTORS, AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION OF MILLWORK.
3. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BE INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFORM WITH VA STANDARDS.
4. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH EXISTING FIRE RATING OR NEW FIRE RATING, IF REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
5. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
6. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
7. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULLBOX PLACEMENT AND SIZING BY CONTACTOR. COORDINATE PULLBOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.

KEY NOTES

1. APPROXIMATE FOOTPRINT OF TR "1109" LOCATED ON FLOOR ABOVE. FEEDERS ROUTE THROUGH VERTICALLY STACKED TR "1109"; REFERENCE ENLARGED ELECTRICAL PLANS 067EP401 FOR ADDITIONAL INFORMATION.
2. PROVIDE CONVENIENCE RECEPTACLE, 20A, 120V, GFCI, WR, WITH WHILE-IN-USE COVER.
3. PROVIDE TBB AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.
4. EXISTING EQUIPMENT SHALL BE UTILIZED TO FEED NEW LOAD. REFERENCE BUILDING 067 ONE-LINE DIAGRAMS FOR ADDITIONAL INFORMATION.
5. PROVIDE TBC AS SHOWN. REFERENCE TELECOM BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.

KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

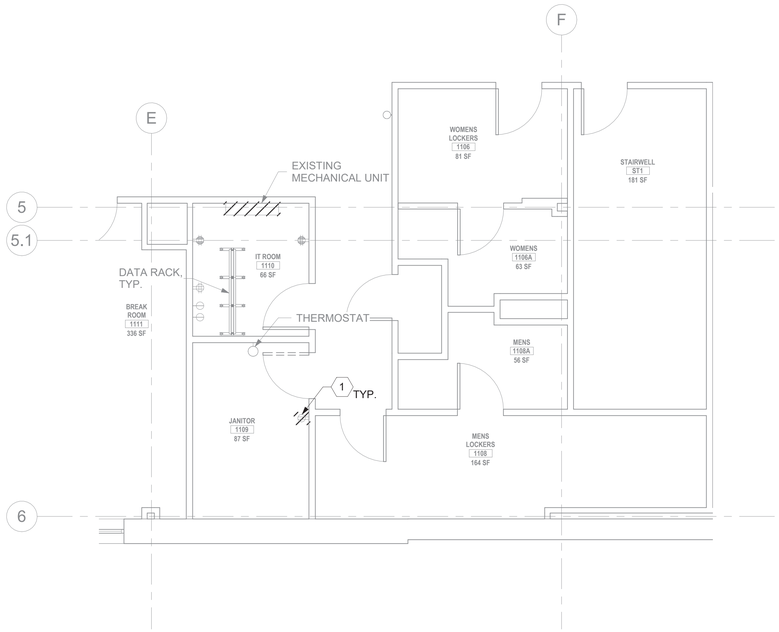
STAMP

LOUIS R. LITZKO STATE OF WASHINGTON 55681 1-16-26 REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

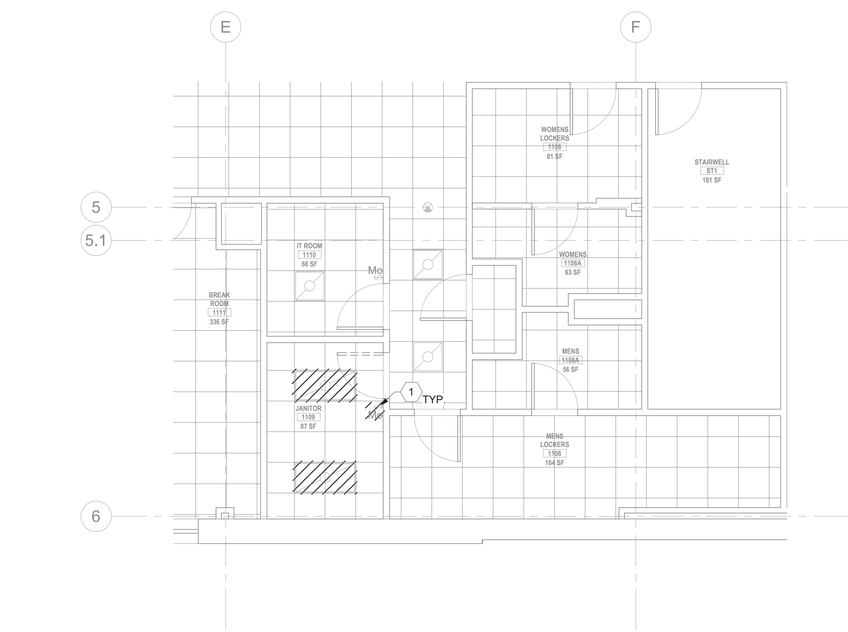
VA U.S. Department of Veterans Affairs

Drawing Title	BLDG 067 - LEVEL 00G - ELECTRICAL PLAN
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Project Number	405-22-700
Building Number	067
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Drawing Number	067EP100G
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB



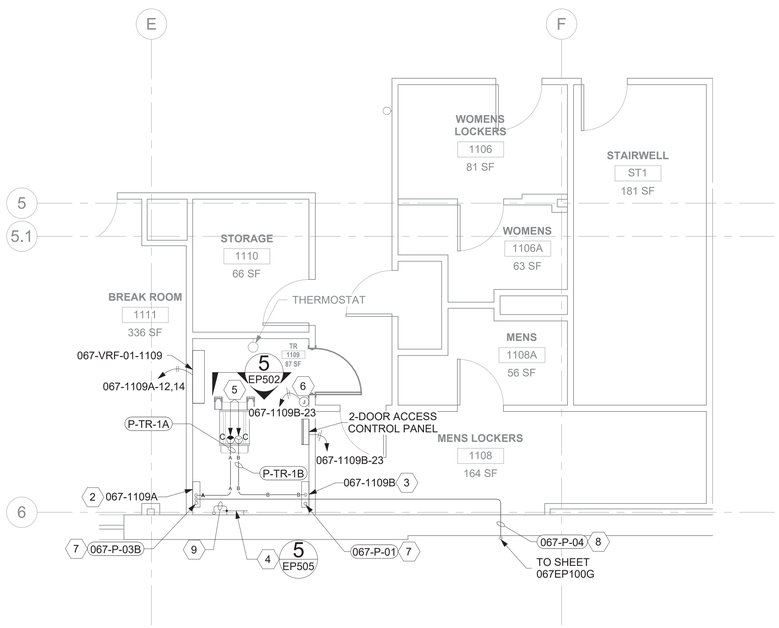
1 RM 1109 - DEMO ELECTRICAL PLAN

1/4" = 1'-0"



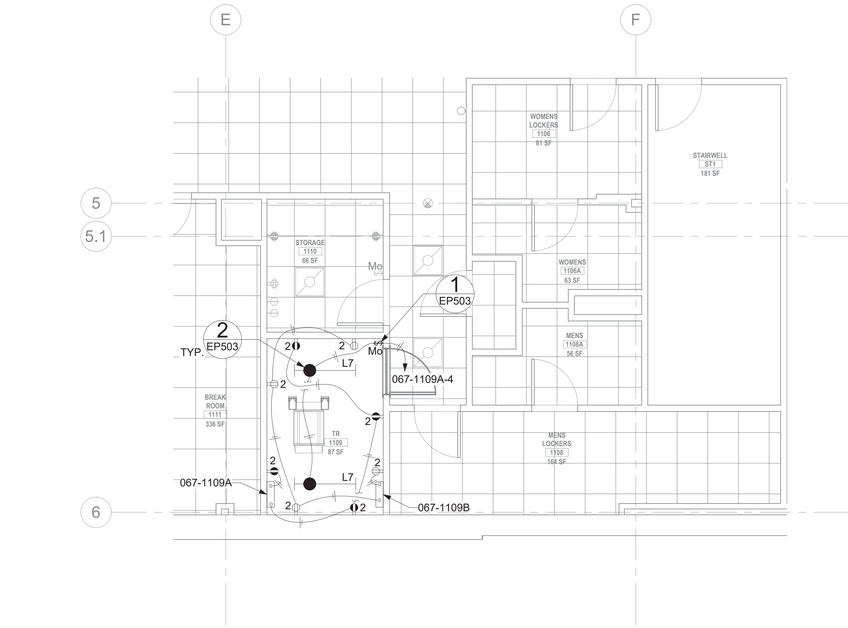
2 RM 1109 - DEMO LIGHTING PLAN

1/4" = 1'-0"



3 RM 1109 - ELECTRICAL PLAN

1/4" = 1'-0"



4 RM 1109 - LIGHTING AND RECEPTACLE PLAN

1/4" = 1'-0"

LEGEND

PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.

- 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
- 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

GENERAL NOTES

1. DEMOLITION PLANS/NOTES ARE BASED ON SITE INVESTIGATIONS AND RECORD DRAWINGS. IF DISCREPANCIES ARE FOUND THAT MAY IMPACT WORK, PROMPTLY NOTIFY VA AND ENGINEER OF SAID DISCREPANCY.
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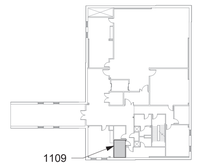
3. CONTRACTOR SHALL DEMOLISH ALL ELECTRICAL EQUIPMENT, CONDUCTORS AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION, UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BE INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFORM WITH VA STANDARDS.
5. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH EXISTING FIRE RATING OR NEW FIRE RATING, IF REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
6. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
7. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
8. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULL BOX PLACEMENT AND SIZING BY CONTRACTOR. COORDINATE PULL BOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.
9. ALL RECEPTACLES AND SWITCHES SHALL BE PROVIDED WITH PANEL AND CIRCUIT LABELING LOCATED DIRECTLY ON THE WALL PLATE; IE:"P4-1", PANEL "4", CIRCUIT "1". REFERENCE WIRING DEVICE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEY NOTES

1. EXISTING EQUIPMENT SHALL BE DEMOLISHED. ASSOCIATED CONDUIT AND WIRE SHALL BE DEMOLISHED BACK TO SOURCE.
2. SOURCE A POWER PANELBOARD "067-1109A".
3. SOURCE B POWER PANELBOARD "067-1109B".
4. PROVIDE SECONDARY BONDING BUSBAR. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.
5. OVERHEAD TR RACK SOURCE A AND SOURCE B POWER RECEPTACLE.
6. FURNISH AND INSTALLPOWER SUPPLY WITHIN JUNCTION BOX AS INDICATED ABOVE ACCESSIBLE CEILINGS. VERIFY LOCATIONS WITH ARCHITECT. PROVIDE (1) POWER SUPPLY FOR EACH DOOR OPENING. PROVIDE 120V POWER TO SERVE DOORS WITH ELECTRIFIED DOOR HARDWARE AND MAKE CONNECTIONS AS REQUIRED. REFERENCE PANEL SCHEDULE "067-1109A" FOR CIRCUITING INFORMATION. SEE REQUIREMENTS IN 08 71 00 - DOOR HARDWARE. COORDINATE WITH ARCHITECT AND DOOR INSTALLER.
7. CONDUIT ROUTED VERTICALLY FROM LOADING DOCK "G1103" LOCATED ON FLOOR BELOW. REFERENCE SHEET 067EP100G FOR ADDITIONAL INFORMATION.
8. CONDUIT ROUTED VERTICALLY TO EXTERIOR DISCONNECT LOCATED ON FLOOR BELOW. REFERENCE SHEET 067EP100G FOR ADDITIONAL INFORMATION.
9. PROVIDE TBB AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.

KEY PLAN



SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

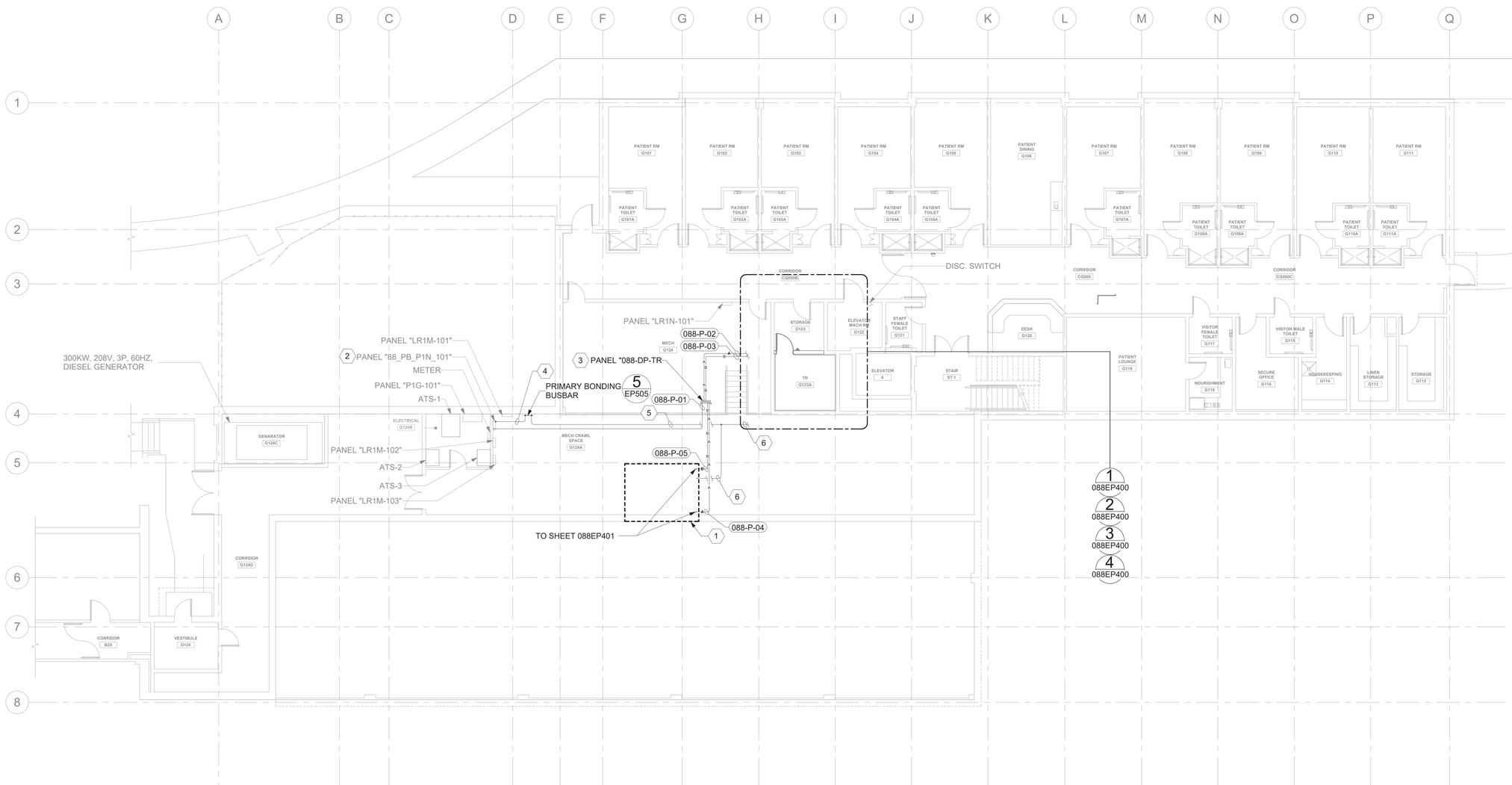
STAMP

LOUIS R. LITZAU — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	BLDG 067 - LEVEL 01 - ENLARGED ELECTRICAL PLANS
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Project Number	405-22-700
Building Number	067
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Drawing Number	067EP401
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB



LEGEND

PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.

- 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
- 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

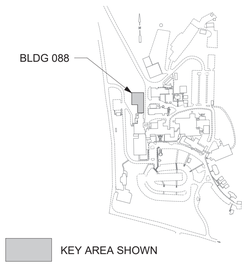
GENERAL NOTES

1. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL REMOVE ALL ELECTRICAL EQUIPMENT, CONDUCTORS, AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION OF MILLWORK.
3. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BE INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFORM WITH VA STANDARDS.
4. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH EXISTING FIRE RATING OR NEW FIRE RATING, IF REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
5. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
6. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
7. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULLBOX PLACEMENT AND SIZING BY CONTACTOR. COORDINATE PULLBOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.

KEY NOTES

1. APPROXIMATE FOOTPRINT OF TR "1105C" LOCATED ON FLOOR ABOVE. FEEDERS ROUTE THROUGH VERTICALLY STACKED TR "1105C"; REFERENCE ENLARGED ELECTRICAL PLANS 088EP401 FOR ADDITIONAL INFORMATION.
2. EXISTING EQUIPMENT SHALL BE UTILIZED TO FEED NEW LOAD. REFERENCE ASSOCIATED ONE-LINE DIAGRAMS FOR MORE INFORMATION.
3. PROVIDE EQUIPMENT AS INDICATED. REFERENCE BUILDING 088 ONE-LINE DIAGRAMS FOR ADDITIONAL INFORMATION.
4. PROVIDE TBC AS SHOWN. REFERENCE TELECOM BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.
5. PROVIDE TBB AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.
6. PROVIDE SBC AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.

KEY PLAN



KEY AREA SHOWN

1 BLDG 088 - LEVEL 00 - ELECTRICAL PLAN

1/8" = 1'-0"

PROJECT NORTH

0 4' 8' 16'

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
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SDB SPEESDESIGNBUILD

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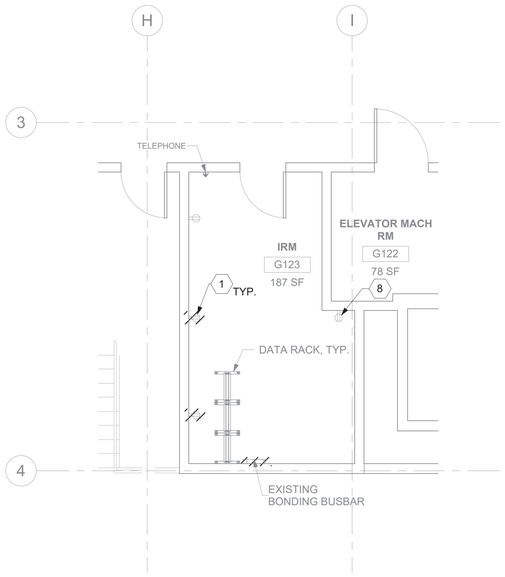
LOUIS R. LITALO — STATE OF WASHINGTON — 156881 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

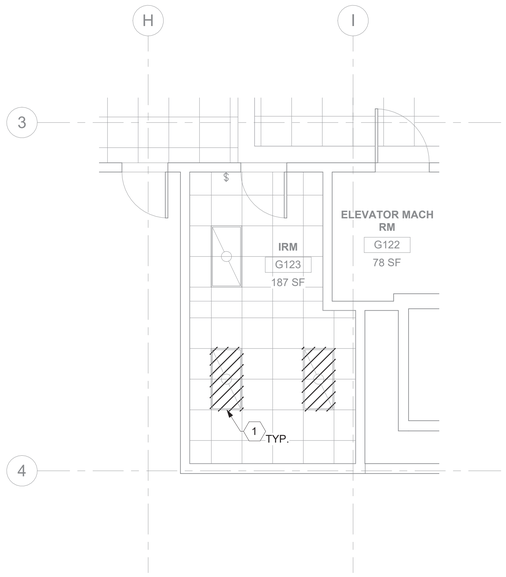
Drawing Title: BLDG 088 - LEVEL 00 - ELECTRICAL PLAN	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER		Project Number: 405-22-700
		Building Number: 088
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009		Drawing Number: 088EP100
Issue Date: 01/16/2026	Checked: NVP/DCW	Drawn: RTS/KDB



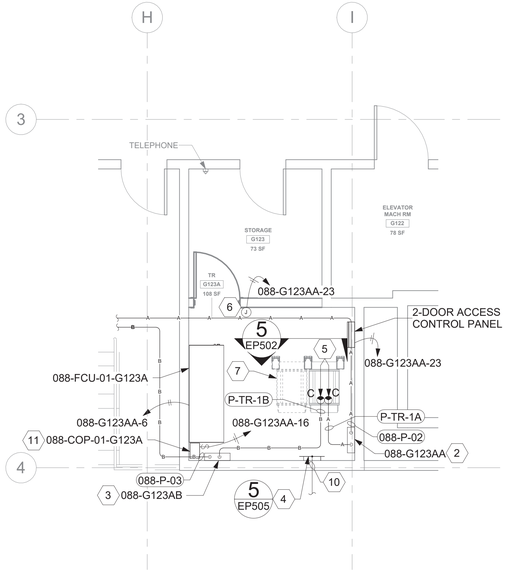
1 088EP100 RM G123 - DEMOLITION ELECTRICAL PLAN

1/4" = 1'-0"



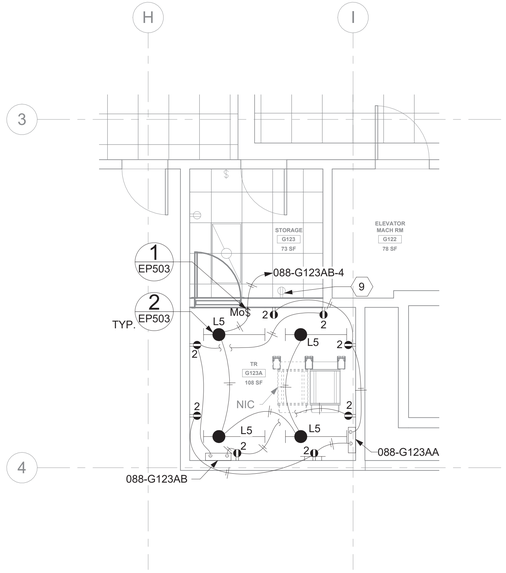
2 088EP100 RM G123 - DEMOLITION LIGHTING PLAN

1/4" = 1'-0"



3 088EP100 RM G123A - ELECTRICAL PLAN

1/4" = 1'-0"



4 088EP100 RM G123A - LIGHTING AND RECEPTACLE PLAN

1/4" = 1'-0"

KEY NOTES

10 PROVIDE SBC AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.

11 PROVIDE CONNECTION FOR CONDENSATE PUMP. PROVIDE MOTOR RATED SINGLE POLE DISCONNECT SWITCH.

LEGEND

PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.

- 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
- 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

GENERAL NOTES

1. DEMOLITION PLANS/NOTES ARE BASED ON SITE INVESTIGATIONS AND RECORD DRAWINGS. IF DISCREPANCIES ARE FOUND THAT MAY IMPACT WORK, PROMPTLY NOTIFY VA AND ENGINEER OF SAID DISCREPANCY.
2. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL DEMOLISH ALL ELECTRICAL EQUIPMENT, CONDUCTORS AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION, UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BE INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFORM WITH VA STANDARDS.
5. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH EXISTING FIRE RATING OR NEW FIRE RATING, IF REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
6. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
7. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
8. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULL BOX PLACEMENT AND SIZING BY CONTRACTOR. COORDINATE PULL BOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.
9. ALL RECEPTACLES AND SWITCHES SHALL BE PROVIDED WITH PANEL AND CIRCUIT LABELING LOCATED DIRECTLY ON THE WALL PLATE; IE:"P4-1", PANEL "4", CIRCUIT "1". REFERENCE WIRING DEVICE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEY NOTES

1 EXISTING EQUIPMENT SHALL BE DEMOLISHED. ASSOCIATED CONDUIT AND WIRE SHALL BE DEMOLISHED BACK TO SOURCE.

2 SOURCE A POWER PANELBOARD "088-G123AA".

3 SOURCE B POWER PANELBOARD "088-G123AB".

4 PROVIDE SECONDARY BONDING BUSBAR. REFERENCE TELECOMMUNICATIONS BONDING DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.

5 OVERHEAD TR RACK SOURCE A AND SOURCE B POWER RECEPTACLE.

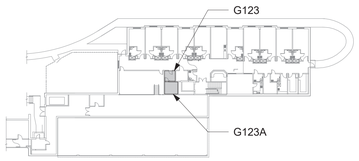
6 FURNISH AND INSTALL POWER SUPPLY WITHIN JUNCTION BOX AS INDICATED ABOVE ACCESSIBLE CEILINGS. VERIFY LOCATIONS WITH ARCHITECT. PROVIDE (1) POWER SUPPLY FOR EACH DOOR OPENING. PROVIDE 120V POWER TO SERVE DOORS WITH ELECTRIFIED DOOR HARDWARE AND MAKE CONNECTIONS AS REQUIRED. REFERENCE PANEL SCHEDULE "088-G123A" FOR CIRCUITING INFORMATION. SEE REQUIREMENTS IN 08 71 00 - DOOR HARDWARE. COORDINATE WITH ARCHITECT AND DOOR INSTALLER.

7 TELECOM RACK IS NOT IN CONTRACT (NIC). SPARE CIRCUIT BREAKER HAS BEEN PROVIDED FOR FUTURE EQUIPMENT. REFERENCE BUILDING 088 PANEL SCHEDULES FOR ADDITIONAL INFORMATION.

8 EQUIPMENT SHALL BE RELOCATED. PRESERVE AND PROTECT EXISTING BRANCH CIRCUIT FOR RE-TERMINATION.

9 RELOCATED EQUIPMENT. RE-TERMINATE TO EXISTING BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.

KEY PLAN



SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SDB SPEESDESIGNBUILD

STAMP

LOUIS R. LITZAU — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

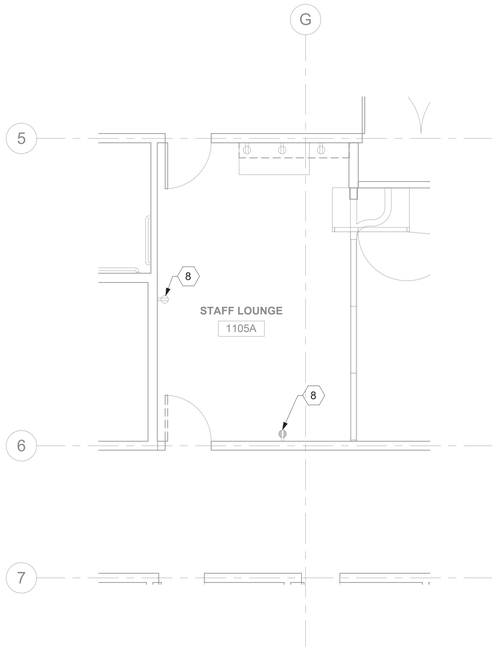
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

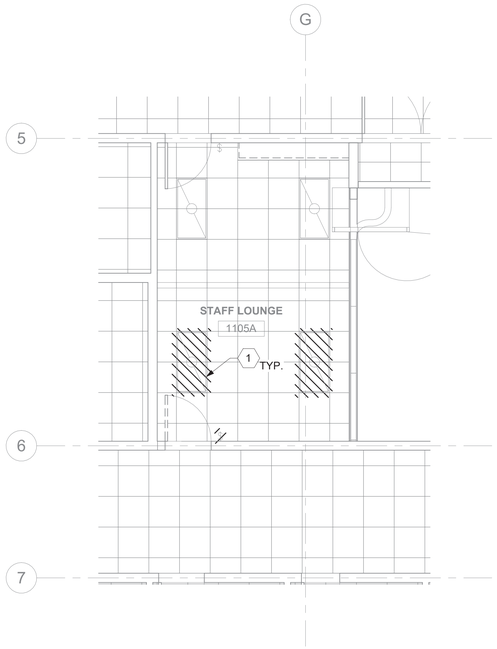
Drawing Title: BLDG 088 - LEVEL 00 - ENLARGED ELECTRICAL PLANS	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER	Project Number: 405-22-700
	Building Number: 088
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009	Drawing Number: 088EP400

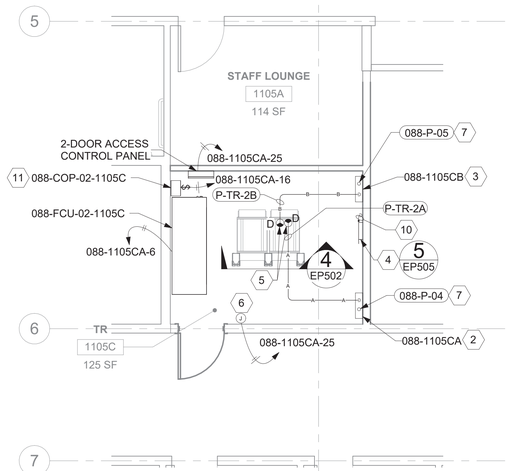
Issue Date	Checked	Drawn
01/16/2026	NVP/DCW	RTS/KDB



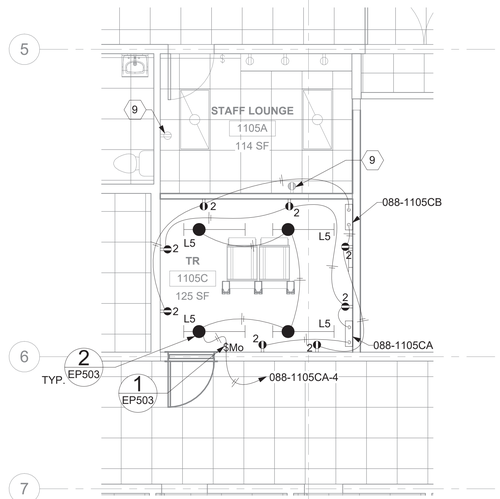
1 — RM 1105A - DEMOLITION ELECTRICAL PLAN
1/4" = 1'-0"



2 — RM 1105A - DEMOLITION LIGHTING PLAN
1/4" = 1'-0"



3 — RM 1105C - ELECTRICAL PLAN
1/4" = 1'-0"



4 — RM 1105C - LIGHTING AND RECEPTACLE PLAN
1/4" = 1'-0"

KEY NOTES

10 PROVIDE SBC AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.

11 PROVIDE CONNECTION FOR CONDENSATE PUMP. PROVIDE MOTOR RATED SINGLE POLE DISCONNECT SWITCH.

LEGEND

PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.

—A— —A— 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
—B— —B— 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
- A - - - A - 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
- B - - - B - 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

GENERAL NOTES

1. DEMOLITION PLANS/NOTES ARE BASED ON SITE INVESTIGATIONS AND RECORD DRAWINGS. IF DISCREPANCIES ARE FOUND THAT MAY IMPACT WORK, PROMPTLY NOTIFY VA AND ENGINEER OF SAID DISCREPANCY.
2. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL DEMOLISH ALL ELECTRICAL EQUIPMENT, CONDUCTORS AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION, UNLESS OTHERWISE NOTED.
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KEY NOTES

1 EXISTING EQUIPMENT SHALL BE DEMOLISHED. ASSOCIATED CONDUIT AND WIRE SHALL BE DEMOLISHED BACK TO SOURCE.

2 SOURCE A POWER PANELBOARD "088-1105CA".

3 SOURCE B POWER PANELBOARD "088-1105CB".

4 PROVIDE SECONDARY BONDING BUSBAR. REFERENCE TELECOMMUNICATIONS BONDING DIAGRAM ON SHEET EG601 FOR ADDITIONAL INFORMATION.

5 OVERHEAD TR RACK SOURCE A AND SOURCE B POWER RECEPTACLE.

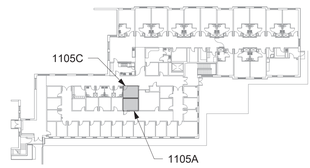
6 FURNISH AND INSTALL POWER SUPPLY WITHIN JUNCTION BOX AS INDICATED ABOVE ACCESSIBLE CEILINGS. VERIFY LOCATIONS WITH ARCHITECT. PROVIDE (1) POWER SUPPLY FOR EACH DOOR OPENING. PROVIDE 120V POWER TO SERVE DOORS WITH ELECTRIFIED DOOR HARDWARE AND MAKE CONNECTIONS AS REQUIRED. REFERENCE PANEL SCHEDULE "088-1105CA" FOR CIRCUITING INFORMATION. SEE REQUIREMENTS IN 08 71 00 - DOOR HARDWARE. COORDINATE WITH ARCHITECT AND DOOR INSTALLER.

7 CONDUIT ROUTED VERTICALLY FROM CRAWL SPACE "G124A" LOCATED ON FLOOR BELOW. REFERENCE SHEET 088EP100 FOR ADDITIONAL INFORMATION.

8 EQUIPMENT SHALL BE RELOCATED. PRESERVE AND PROTECT EXISTING BRANCH CIRCUIT FOR RE-TERMINATION.

9 RELOCATED EQUIPMENT. RE-TERMINATE TO EXISTING BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.

KEY PLAN



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Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

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KENT, WA 98032

SPEESDESIGNBUILD

STAMP

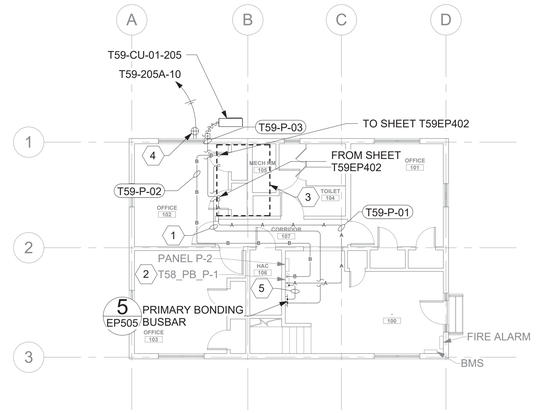
LOUIS R. LUTZAO — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

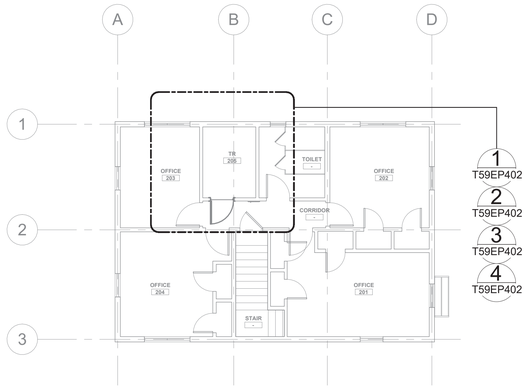
VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 088 - LEVEL 01 - ENLARGED ELECTRICAL PLANS	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER	Project Number: 405-22-700
	Building Number: 088
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009	Drawing Number: 088EP401
Issue Date: 01/16/2026 / Checked: NVP/DCW / Drawn: RTS/KDB	



1 BLDG T59 - LEVEL 01 - ELECTRICAL PLAN
1/8" = 1'-0"



2 BLDG T59 - LEVEL 02 - ELECTRICAL PLAN
1/8" = 1'-0"

LEGEND

PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.

- 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
- 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

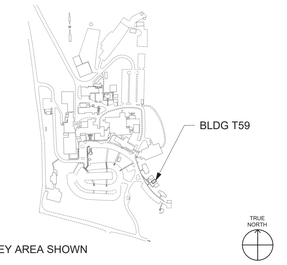
GENERAL NOTES

1. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL REMOVE ALL ELECTRICAL EQUIPMENT, CONDUCTORS, AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION OF MILLWORK.
3. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BE INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFORM WITH VA STANDARDS.
4. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH EXISTING FIRE RATING OR NEW FIRE RATING, IF REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
5. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
6. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
7. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULLBOX PLACEMENT AND SIZING BY CONTACTOR. COORDINATE PULLBOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.

KEY NOTES

1. PROVIDE TBB AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.
2. EXISTING EQUIPMENT TO BE UTILIZED TO FEED NEW LOAD. REFERENCE BUILDING T59 ONE-LINE DIAGRAMS FOR MORE INFORMATION.
3. APPROXIMATE FOOTPRINT OF TR "205" LOCATED ON FLOOR ABOVE. FEEDERS ROUTE THROUGH VERTICALLY STACKED TR "205"; REFERENCE ENLARGED ELECTRICAL PLANS T59EP402 FOR ADDITIONAL INFORMATION.
4. PROVIDE CONVENIENCE RECEPTACLE, 20A, 120V, GFCI, WR, WITH WHILE-IN-USE COVER.
5. PROVIDE TBC AS SHOWN. REFERENCE TELECOM BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.

KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

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SPEESDESIGNBUILD

STAMP

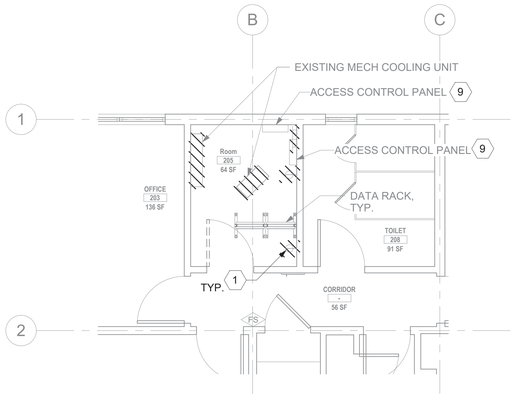
LOUIS R. LITZKO — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

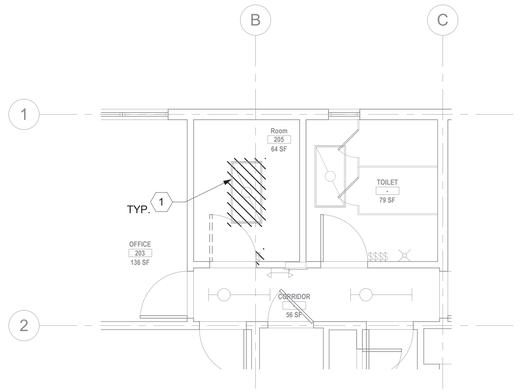
Drawing Title: BLDG T59 - LEVEL 01 - ELECTRICAL PLAN	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER			Project Number: 405-22-700
			Building Number: T59
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009			Drawing Number: T59EP101
Issue Date: 01/16/2026	Checked: NVP/DCW	Drawn: RTS/KDB	



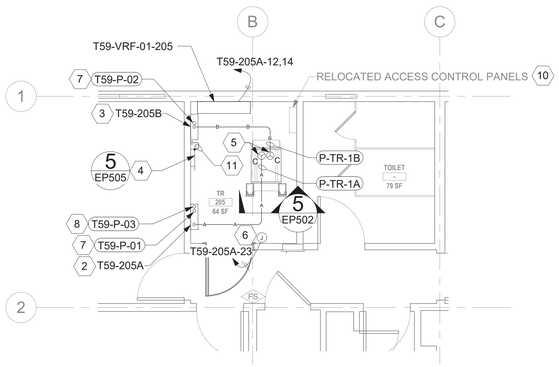
1 T59EP101 RM 205 - DEMO ELECTRICAL PLAN

1/4" = 1'-0"



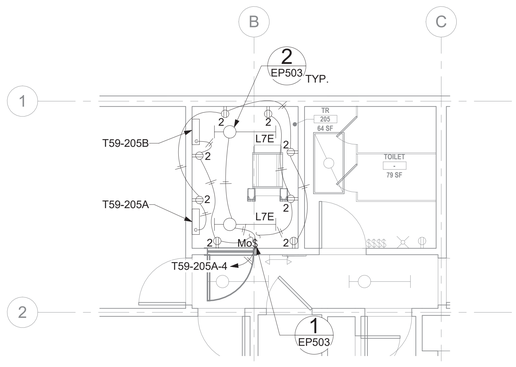
2 T59EP101 RM 205 - DEMO LIGHTING PLAN

1/4" = 1'-0"



3 T59EP101 RM 205 - ELECTRICAL PLAN

1/4" = 1'-0"



4 T59EP101 RM 205 - LIGHTING AND RECEPTACLE PLAN

1/4" = 1'-0"

KEY NOTES

11 PROVIDE TBB AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.

LEGEND

PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.

- 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
- 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

GENERAL NOTES

1. DEMOLITION PLANS/NOTES ARE BASED ON SITE INVESTIGATIONS AND RECORD DRAWINGS. IF DISCREPANCIES ARE FOUND THAT MAY IMPACT WORK, PROMPTLY NOTIFY VA AND ENGINEER OF SAID DISCREPANCY.
2. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL DEMOLISH ALL ELECTRICAL EQUIPMENT, CONDUCTORS AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION, UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BE INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFORM WITH VA STANDARDS.
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6. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
7. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
8. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULL BOX PLACEMENT AND SIZING BY CONTRACTOR. COORDINATE PULL BOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.
9. ALL RECEPTACLES AND SWITCHES SHALL BE PROVIDED WITH PANEL AND CIRCUIT LABELING LOCATED DIRECTLY ON THE WALL PLATE; IE:"P4-1", PANEL "4", CIRCUIT "1". REFERENCE WIRING DEVICE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEY NOTES

1 EXISTING EQUIPMENT SHALL BE DEMOLISHED. ASSOCIATED CONDUIT AND WIRE SHALL BE DEMOLISHED BACK TO SOURCE.

2 SOURCE A POWER PANELBOARD "T59-205A".

3 SOURCE B POWER PANELBOARD "T59-205B".

4 PROVIDE SECONDARY BONDING BUSBAR. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.

5 OVERHEAD TR RACK SOURCE A AND SOURCE B POWER RECEPTACLE.

6 FURNISH AND POWER SUPPLY WITHIN JUNCTION BOX SUPPLIES AS INDICATED ABOVE ACCESSIBLE CEILINGS. VERIFY LOCATIONS WITH ARCHITECT. PROVIDE (1) POWER SUPPLY FOR EACH DOOR OPENING. PROVIDE 120V POWER TO SERVE DOORS WITH ELECTRIFIED DOOR HARDWARE AND MAKE CONNECTIONS AS REQUIRED; REFERENCE PANEL SCHEDULE "T59-205A" FOR CIRCUITING INFORMATION. SEE REQUIREMENTS IN 08 71 00 - DOOR HARDWARE. COORDINATE WITH ARCHITECT AND DOOR INSTALLER.

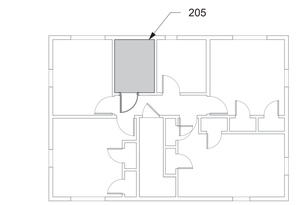
7 CONDUIT ROUTED VERTICALLY FROM OFFICE "102" LOCATED ON FLOOR BELOW. REFERENCE SHEET T59EP101 FOR ADDITIONAL INFORMATION.

8 CONDUIT ROUTED VERTICALLY TO OFFICE "102" LOCATED ON FLOOR BELOW. REFERENCE SHEET T59EP101 FOR ADDITIONAL INFORMATION.

9 EQUIPMENT SHALL BE RELOCATED. PRESERVE AND PROTECT EXISTING BRANCH CIRCUIT FOR RE-TERMINATION.

10 RELOCATED ACCESS CONTROL PANELS; PANELS SHALL BE STACKED. RE-TERMINATE TO EXISTING BRANCH CIRCUIT. EXTEND RACEWAYS AND CONDUCTORS AS NECESSARY.

KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE

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ARCHITECT/ ENGINEER OF RECORD

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SPEESDESIGNBUILD

STAMP

LOUIS R. LITZKA STATE OF WASHINGTON 55681 1-16-26 REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG T59 - LEVEL 02 - ENLARGED ELECTRICAL PLANS	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER	Project Number: 405-22-700
	Building Number: T59
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009	Drawing Number: T59EP402
Issue Date: 01/16/2026	Checked: NVP/DCW
	Drawn: RTS/KDB

LEGEND
PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.
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6. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
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KEY NOTES

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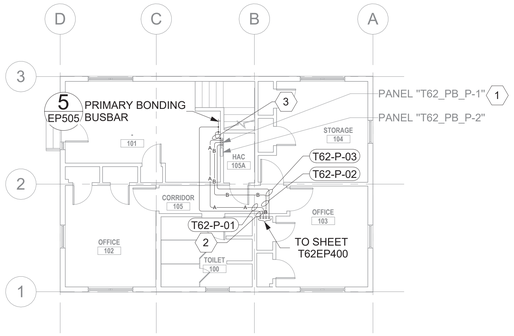
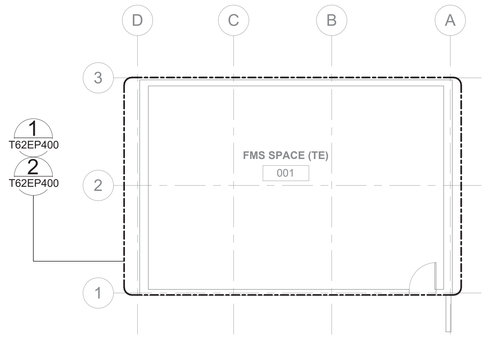
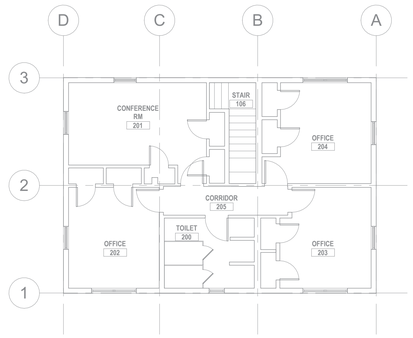
2. PROVIDE TBB AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.
3. PROVIDE TBC AS SHOWN. REFERENCE TELECOM BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.



2 – BLDG T62 - LEVEL 01 - ELECTRICAL PLAN
1/8" = 1'-0"
0 4' 8' 16'
PROJECT NORTH

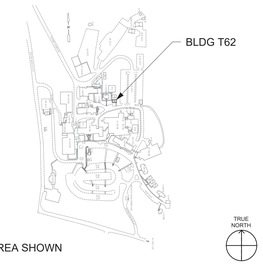


1 – BLDG T62 - LEVEL 00 - ELECTRICAL PLAN
1/8" = 1'-0"
0 4' 8' 16'
PROJECT NORTH



3 – BLDG T62 - LEVEL 02 - ELECTRICAL PLAN
1/8" = 1'-0"
0 4' 8' 16'
PROJECT NORTH

KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE

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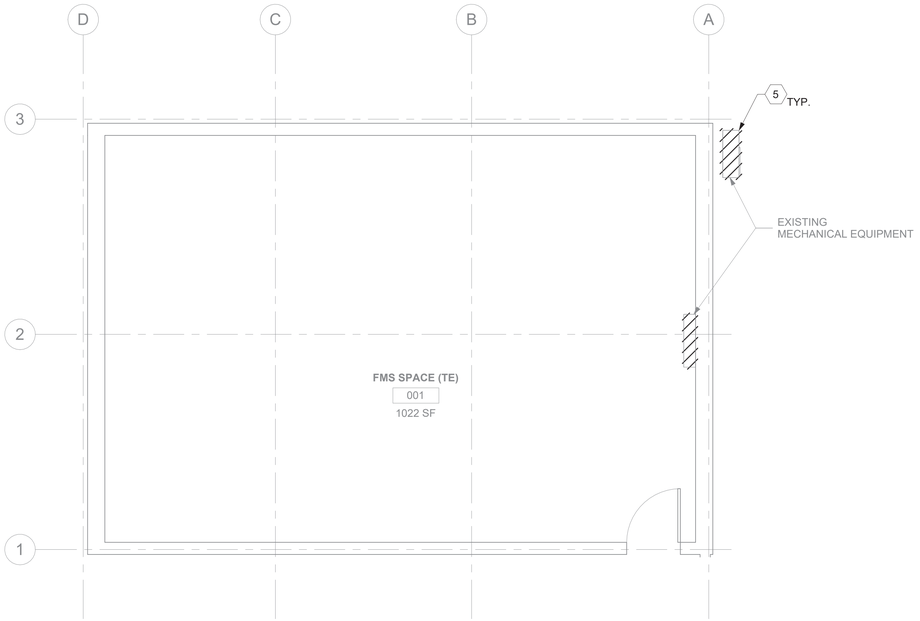
LOUIS R. LITZKO
STATE OF WASHINGTON
55681
1-16-26
REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

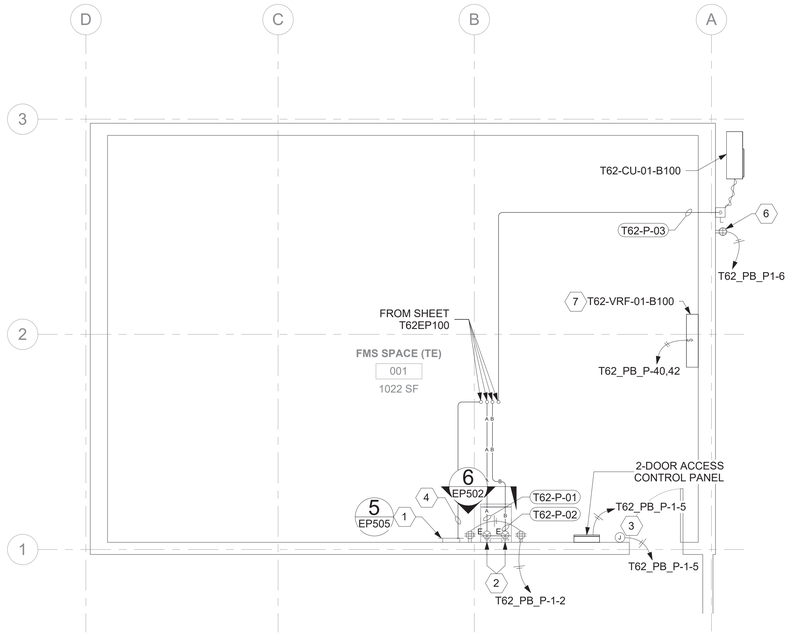
VA U.S. Department of Veterans Affairs

Drawing Title	BLDG T62 - LEVEL 00 - ELECTRICAL PLAN
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB
Project Number	405-22-700
Building Number	T62
Drawing Number	T62EP100



1 T62EP100 RM 001 - DEMO ELECTRICAL PLAN

1/4" = 1'-0"



2 T62EP100 RM 001 - ELECTRICAL PLAN

1/4" = 1'-0"

LEGEND

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GENERAL NOTES

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7. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
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9. ALL RECEPTACLES AND SWITCHES SHALL BE PROVIDED WITH PANEL AND CIRCUIT LABELING LOCATED DIRECTLY ON THE WALL PLATE; IE:"P4-1", PANEL "4", CIRCUIT "1". REFERENCE WIRING DEVICE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEY NOTES

1. PROVIDE SECONDARY BONDING BUSBAR. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.
2. TE SOURCE A AND SOURCE B POWER RECEPTACLE.
3. FURNISH AND INSTALL POWER SUPPLY WITHIN JUNCTION BOX AS INDICATED ABOVE ACCESSIBLE CEILINGS. VERIFY LOCATIONS WITH ARCHITECT. PROVIDE (1) POWER SUPPLY FOR EACH DOOR OPENING. PROVIDE 120V POWER TO SERVE DOORS WITH ELECTRIFIED DOOR HARDWARE AND MAKE CONNECTIONS AS REQUIRED; REFERENCE PANEL SCHEDULE "05-007AA" FOR CIRCUITING INFORMATION. SEE REQUIREMENTS IN 08 71 00 - DOOR HARDWARE. COORDINATE WITH ARCHITECT AND DOOR INSTALLER.
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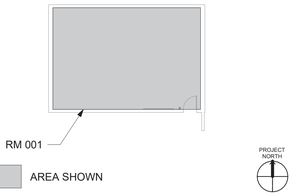
6. PROVIDE CONVENIENCE RECEPTACLE, 20A, 120V, GFCI, WR, WITH WHILE-IN-USE COVER.
7. PROVIDE EQUIPMENT WITH MOTOR RATED SWITCH.

KEY PLAN



Revisions:	Date:

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LOUIS R. LITSKO
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1-16-26
REGISTERED
PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG T62 - LEVEL 00 - ENLARGED ELECTRICAL PLANS

Approved:

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER

Location: VA VT WHITE RIVER JUNCTION
163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009

Project Number: 405-22-700

Building Number: T62

Drawing Number: T62EP400

Issue Date	Checked	Drawn
01/16/2026	NVP/DCW	RTS/KDB

LEGEND
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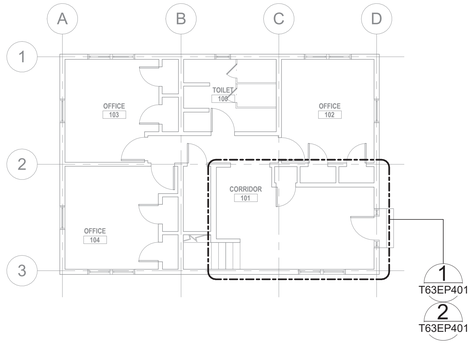
1. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL REMOVE ALL ELECTRICAL EQUIPMENT, CONDUCTORS, AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION OF MILLWORK.
3. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BE INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFORM WITH VA STANDARDS.
4. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH EXISTING FIRE RATING OR NEW FIRE RATING, IF REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
5. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
6. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
7. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULLBOX PLACEMENT AND SIZING BY CONTACTOR. COORDINATE PULLBOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.

KEY NOTES

1. PROVIDE CONVENIENCE RECEPTACLE, 20A, 120V, GFCI, WR, WITH WHILE-IN-USE COVER.

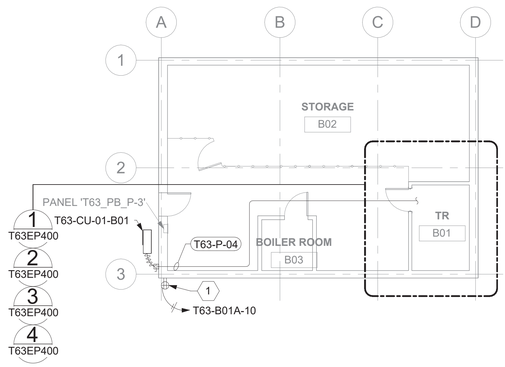


2 - BLDG T63 - LEVEL 01 - ELECTRICAL PLAN

1/8" = 1'-0"

PROJECT NORTH

0 4' 8' 16'

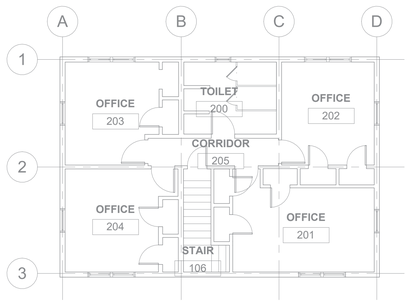


1 - BLDG T63 - LEVEL 00 - ELECTRICAL PLAN

1/8" = 1'-0"

PROJECT NORTH

0 4' 8' 16'



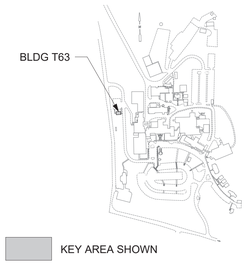
3 - BLDG T63 - LEVEL 02 - ELECTRICAL PLAN

1/8" = 1'-0"

PROJECT NORTH

0 4' 8' 16'

KEY PLAN



KEY AREA SHOWN

TRUE NORTH

Revisions:	Date:

CONSULTANT/ DISCIPLINE

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STATE OF WASHINGTON
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1-16-26
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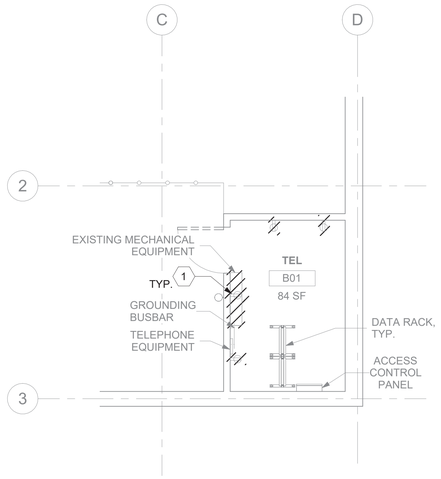
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

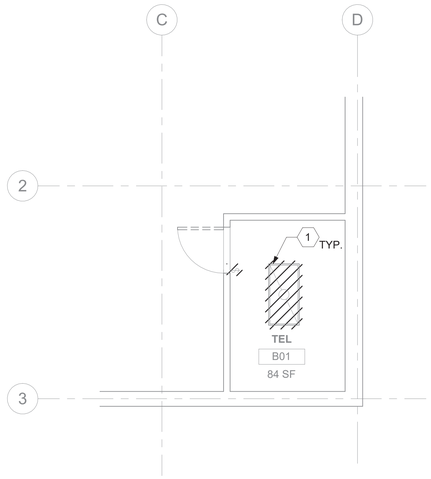
Drawing Title: BLDG T63 - LVL 00, 01 & 02 - ELECTRICAL PLANS	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER		Project Number: 405-22-700
		Building Number: T63
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009		Drawing Number: T63EP100
Issue Date: 01/16/2026	Checked: NVP/DCW	Drawn: RTS/KDB



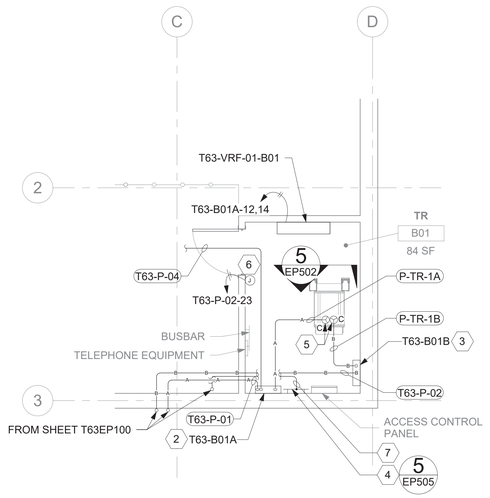
1 T63EP100 RM B01 - DEMO ELECTRICAL PLAN

1/4" = 1'-0"



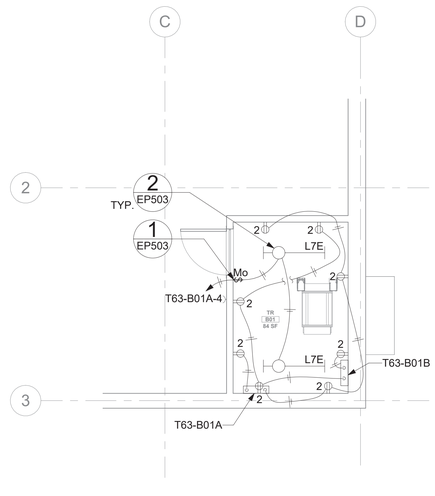
2 T63EP100 RM B01 - DEMO LIGHTING PLAN

1/4" = 1'-0"



3 T63EP100 RM B01 - ELECTRICAL PLAN

1/4" = 1'-0"



4 T63EP100 RM B01 - LIGHTING AND RECEPTACLE PLAN

1/4" = 1'-0"

LEGEND

PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.

- 'A' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'B' SIDE POWER, CONCEALED WHERE POSSIBLE
- 'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
- 'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

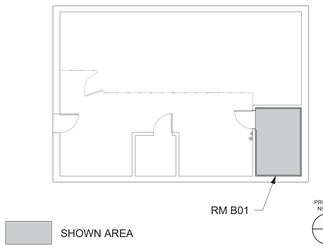
GENERAL NOTES

1. DEMOLITION PLANS/NOTES ARE BASED ON SITE INVESTIGATIONS AND RECORD DRAWINGS. IF DISCREPANCIES ARE FOUND THAT MAY IMPACT WORK, PROMPTLY NOTIFY VA AND ENGINEER OF SAID DISCREPANCY.
2. ALL EXISTING EQUIPMENT MAY NOT BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL POWER, LIGHTING AND ASSOCIATED CIRCUITRY AS REQUIRED. ALL RACEWAYS AND CONDUCTORS ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED SHALL BE DEMOLISHED BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL DEMOLISH ALL ELECTRICAL EQUIPMENT, CONDUCTORS AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION, UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BE INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFORM WITH VA STANDARDS.
5. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH EXISTING FIRE RATING OR NEW FIRE RATING, IF REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
6. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
7. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
8. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULL BOX PLACEMENT AND SIZING BY CONTRACTOR. COORDINATE PULL BOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.
9. ALL RECEPTACLES AND SWITCHES SHALL BE PROVIDED WITH PANEL AND CIRCUIT LABELING LOCATED DIRECTLY ON THE WALL PLATE; IE:"P4-1", PANEL "4", CIRCUIT "1". REFERENCE WIRING DEVICE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEY NOTES

1. EXISTING EQUIPMENT SHALL BE DEMOLISHED. ASSOCIATED CONDUIT AND WIRE SHALL BE DEMOLISHED BACK TO SOURCE.
2. SOURCE A POWER PANELBOARD "T063-B01A".
3. SOURCE B POWER PANELBOARD "T063-B01B".
4. PROVIDE SECONDARY BONDING BUSBAR. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.
5. OVERHEAD TR RACK SOURCE A AND SOURCE B POWER RECEPTACLE.
6. FURNISH AND INSTALL POWER SUPPLY WITHIN JUNCTION BOX AS INDICATED ABOVE ACCESSIBLE CEILINGS. VERIFY LOCATIONS WITH ARCHITECT. PROVIDE (1) POWER SUPPLY FOR EACH DOOR OPENING. PROVIDE 120V POWER TO SERVE DOORS WITH ELECTRIFIED DOOR HARDWARE AND MAKE CONNECTIONS AS REQUIRED; REFERENCE PANEL SCHEDULE "T063-B01A" FOR CIRCUITING INFORMATION. SEE REQUIREMENTS IN 08 71 00 - DOOR HARDWARE. COORDINATE WITH ARCHITECT AND DOOR INSTALLER.
7. PROVIDE TBB AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.

KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE

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ARCHITECT/ ENGINEER OF RECORD

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SPEESDESIGNBUILD

STAMP

LOUIS R. LITZAO STATE OF WASHINGTON 55681 1-16-26 REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG T63 - LEVEL 00 - ENLARGED ELECTRICAL PLANS	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER			Project Number: 405-22-700
			Building Number: T63
Location: VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009			Drawing Number: T63EP400
Issue Date: 01/16/2026	Checked: NVP/DCW	Drawn: RTS/KDB	

VA FORM 08 - 6231

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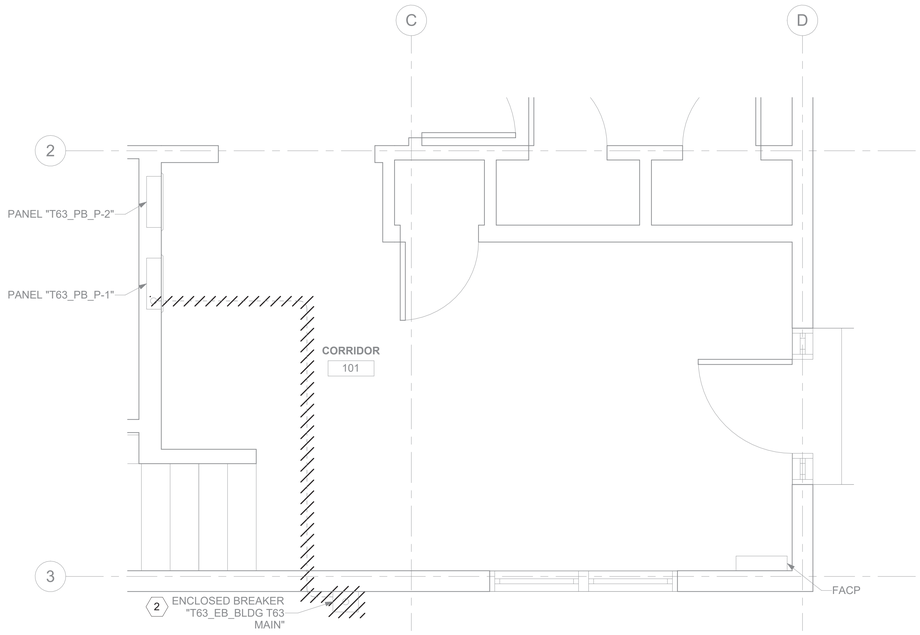
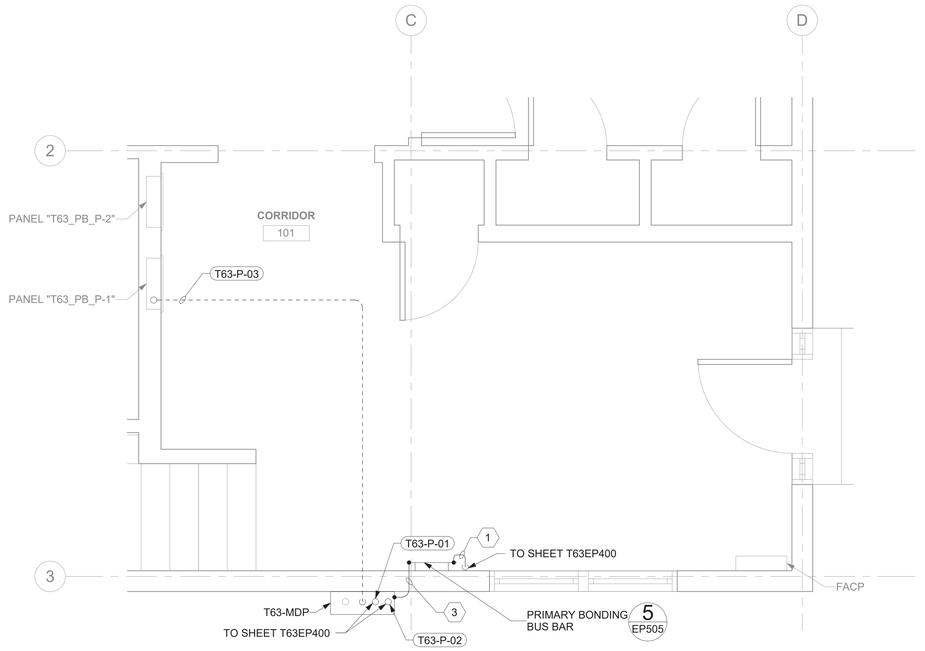
Autodesk Docs://405-22-700 VA VT White River Junction EHRM IU/VAWR_T63_EL_SDB.rvt



1 T63EP100 RM 101 - DEMO ELECTRICAL PLAN

1/2" = 1'-0"



2 T63EP100 RM 101 - ELECTRICAL PLAN

1/2" = 1'-0"

LEGEND
PROVIDED TO INDICATE 'A' AND 'B' SIDE SOURCED POWER FEEDERS. REFERENCE GENERAL SYMBOL LEGEND FOR ADDITIONAL INFORMATION.
'A' SIDE POWER, CONCEALED WHERE POSSIBLE
'B' SIDE POWER, CONCEALED WHERE POSSIBLE
'A' SIDE POWER, UNDERGROUND /UNDERFLOOR
'B' SIDE POWER, UNDERGROUND /UNDERFLOOR

GENERAL NOTES

1. DEMOLITION PLANS/NOTES ARE BASED ON SITE INVESTIGATIONS AND RECORD DRAWINGS. IF DISCREPANCIES ARE FOUND THAT MAY IMPACT WORK, PROMPTLY NOTIFY VA AND ENGINEER OF SAID DISCREPANCY.
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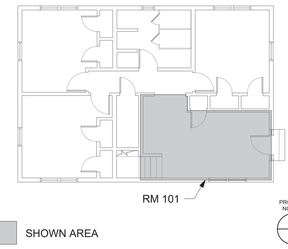
3. CONTRACTOR SHALL DEMOLISH ALL ELECTRICAL EQUIPMENT, CONDUCTORS AND RACEWAYS ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION, UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL COORDINATE NORMAL/ESSENTIAL ELECTRICAL SYSTEM SHUTDOWNS AND PHASING WITH THE VA PRIOR TO PERFORMING REQUIRED EQUIPMENT UPGRADES. CONTRACTOR TO PROVIDE BACKUP EMERGENCY POWER AND DETERMINE TIE-IN/CONNECTION PLAN WITH EXISTING EQUIPMENT. POWER TO ALL EXISTING ESSENTIAL EQUIPMENT CANNOT BE INTERRUPTED AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. BACKUP POWER AND TIE-IN SHALL CONFORM WITH VA STANDARDS.
5. SEAL ALL INTERIOR WALL AND CEILING PENETRATIONS TO MATCH EXISTING FIRE RATING OR NEW FIRE RATING, IF REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED.
6. REFERENCE CORRESPONDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
7. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
8. CONTRACTOR SHALL PROVIDE PULL BOXES FOR ALL FEEDERS WHERE FEEDER RUNS EXCEED 250FT OR HAVE MORE THAN 270 DEGREES OF TOTAL BEND. PULL BOX PLACEMENT AND SIZING BY CONTRACTOR. COORDINATE PULL BOX LOCATIONS WITH ALL OBSTRUCTIONS, TRADES, AND VA AS REQUIRED.
9. ALL RECEPTACLES AND SWITCHES SHALL BE PROVIDED WITH PANEL AND CIRCUIT LABELING LOCATED DIRECTLY ON THE WALL PLATE; IE:"P4-1", PANEL "4", CIRCUIT "1". REFERENCE WIRING DEVICE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEY NOTES

1. PROVIDE TBB AS INDICATED; WHERE CONDUCTOR IS SUBJECT TO PHYSICAL DAMAGE, CONDUCTOR SHALL BE ROUTED THROUGH RMC. REFERENCE TELECOMMUNICATIONS BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.
2. EXISTING EQUIPMENT SHALL BE DEMOLISHED. ASSOCIATED CONDUIT AND WIRE SHALL BE DEMOLISHED BACK TO WHERE INDICATED. REFERENCE BUILDING T63 ONE-LINE DIAGRAMS FOR ADDITIONAL INFORMATION.
3. PROVIDE TBC AS SHOWN. REFERENCE TELECOM BONDING RISER DIAGRAM ON SHEET EG602 FOR ADDITIONAL INFORMATION.

KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

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SDB SPEESDESIGNBUILD

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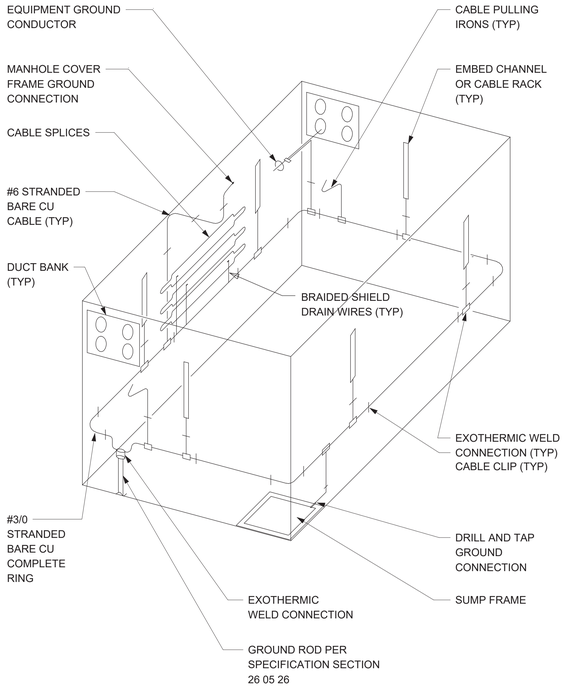
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

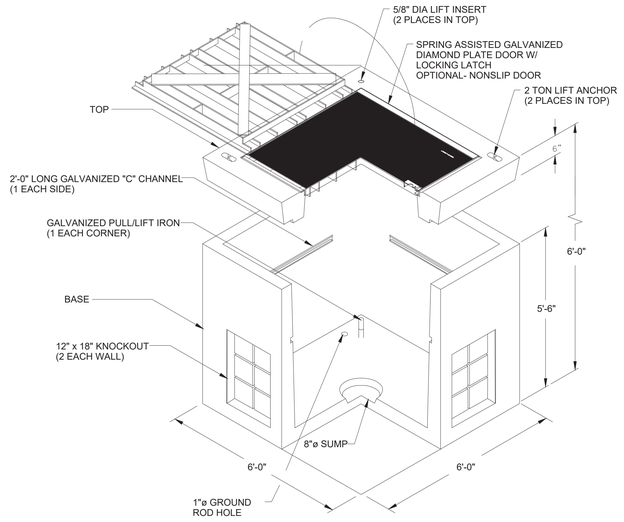
Drawing Title: BLDG T63 - LEVEL 01 - ENLARGED ELECTRICAL PLANS	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER			Project Number: 405-22-700
			Building Number: T63
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009			Drawing Number: T63EP401
Issue Date: 01/16/2026	Checked: NVP/DCW	Drawn: RTS/KDB	



1 - VAULT "VT-DC" MANHOLE / VAULT GROUNDING DETAIL

NTS



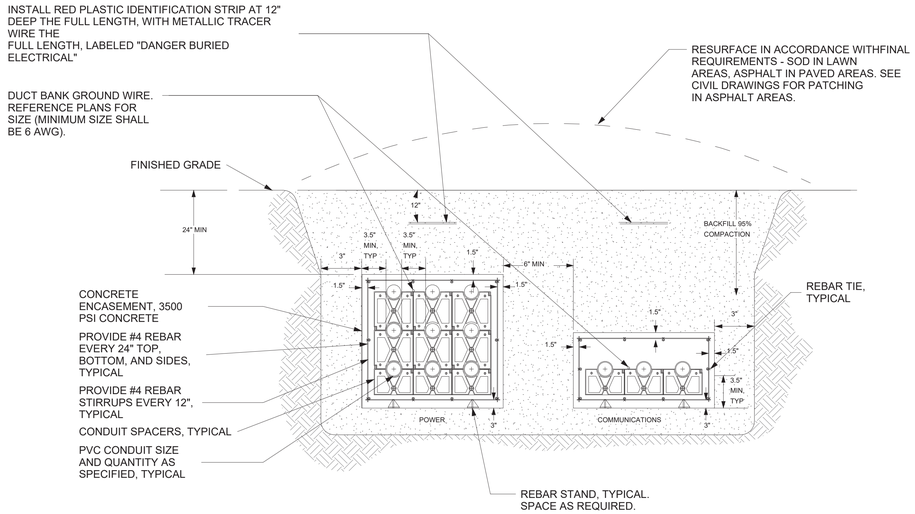
2 - VAULT "VT-DC" 6'X6'X6' CONCRETE VAULT DETAIL

001EP100 NTS

DETAIL NOTES:

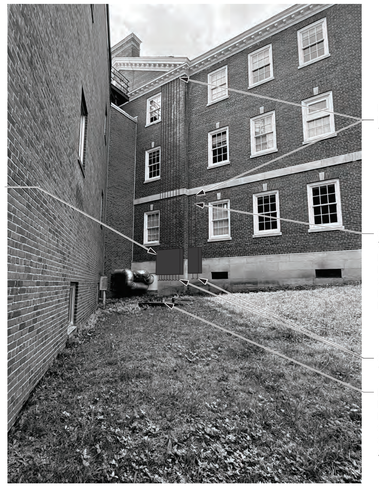
1. THIS IS A TYPICAL DETAIL. NOT ALL DUCT BANKS WILL HAVE POWER AND COMMUNICATIONS. CONTRACTOR SHALL DIMENSION LAYOUT PER SPECIFIC CONDUIT REQUIREMENTS. REFERENCE ASSOCIATED ELECTRICAL CONDUIT AND WIRE SCHEDULE FOR SPECIFIC RACEWAY INFORMATION; FOR ALL COMMUNICATIONS ASSOCIATED CONDUIT AND WIRE, REFERENCE CU SHEETS FOR ADDITIONAL INFORMATION.

2. REFERENCE CIVIL PLANS FOR TRENCHING, BACKFILL, AND SURFACE REPAIR INFORMATION.



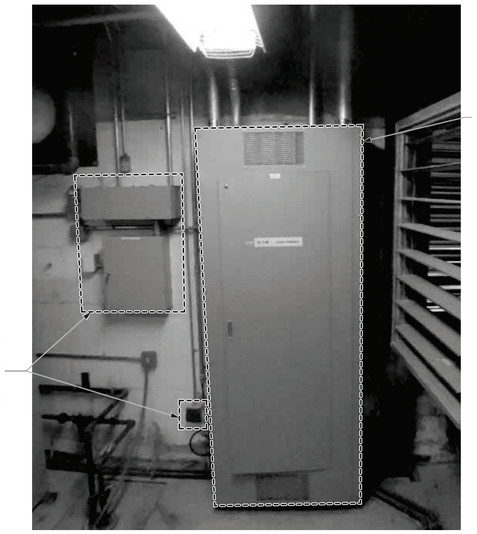
3 - TYPICAL CONCRETE ENCASED DUCT BANK SECTION

001EP100 031EP100 NTS



4 - VAULT "VT-DC" PHOTO DETAIL

001EP100 NTS



5 - SWITCHBOARD "MDP-N-40" PHOTO DETAIL

001EP101 NTS

6 - NOT USED

NTS

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL DETAILS	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER

Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009

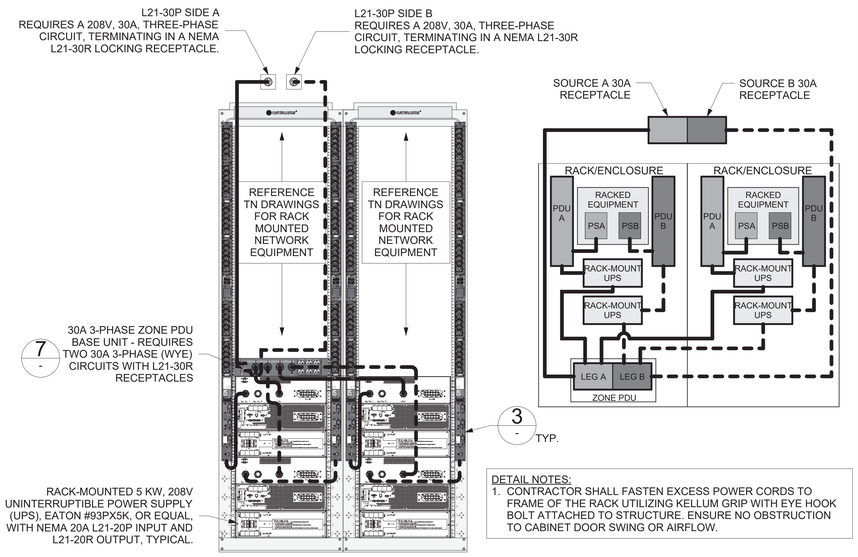
Issue Date	Checked	Drawn
01/16/2026	NVP/DCW	RTS/KDB

Project Number: 405-22-700

Building Number: -

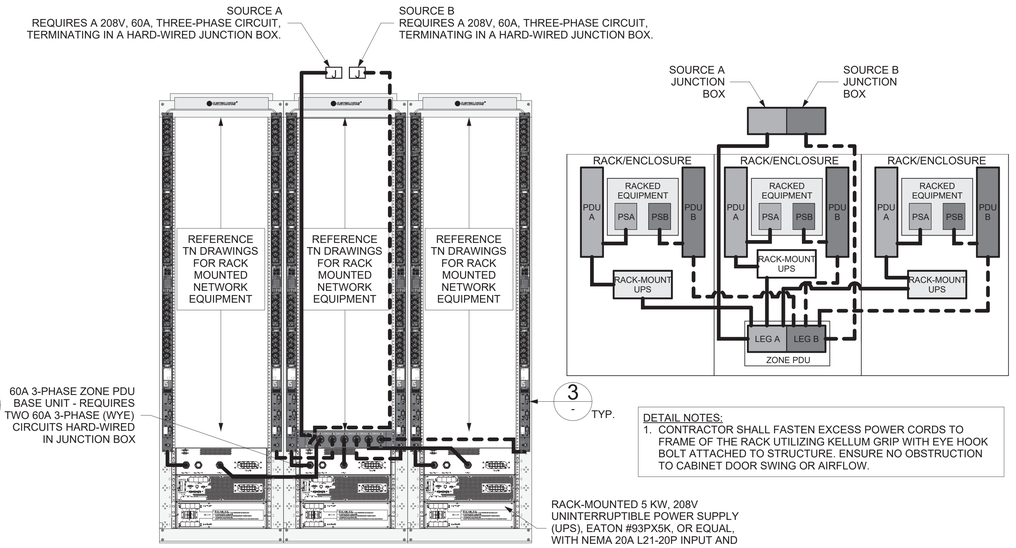
Drawing Number: EP501

GENERAL NOTES SHALL BE APPLIED TO ALL UPS UNITS ON SHEET:
UPS SHALL SUPPORT BOTH MONITORING AND REMOTE MANAGEMENT TO INCLUDE:
1. FULL COMPLIANCE WITH RFC-1628 - UPS MANAGEMENT INFORMATION BASE.
2. SUPPORT SNMP V3.0, BACNET AND MODBUS PROTOCOLS.
3. PROVIDE CONNECTION TO BMS SYSTEM VIA CAT-6A ETHERNET CONNECTION.
4. UPS SHALL BE MANGED AND REPORT THE FOLLOWING TO THE FACILITY BMS:
   I. OVERLOAD (CRITICAL).
   II. BATTERY TEMP (CRITICAL).
   III. LOW BATTERY.
   IV. BATTERY FAILURE (CRITICAL).
   V. GENERAL CRITICAL ALARM (IE: FAN FAILURE, INTERNAL FAULT, BYPASS, ETC.)



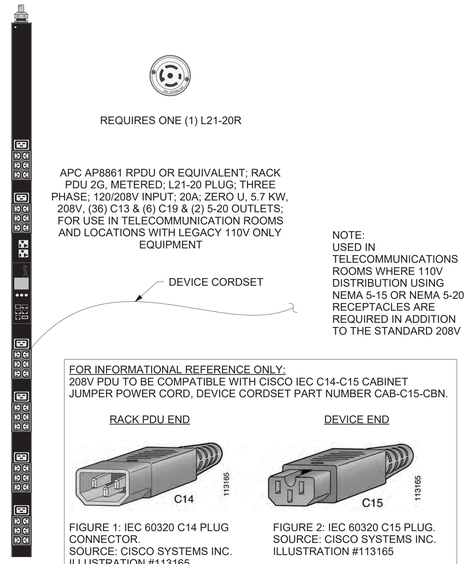
DETAIL NOTES:
1. CONTRACTOR SHALL FASTEN EXCESS POWER CORDS TO FRAME OF THE RACK UTILIZING KELLUM GRIP WITH EYE HOOK BOLT ATTACHED TO STRUCTURE. ENSURE NO OBSTRUCTION TO CABINET DOOR SWING OR AIRFLOW.

1 – POWER ELEVATION AND SCHEMATIC FOR A TWO-RACK ENTRANCE ROOM
NTS



DETAIL NOTES:
1. CONTRACTOR SHALL FASTEN EXCESS POWER CORDS TO FRAME OF THE RACK UTILIZING KELLUM GRIP WITH EYE HOOK BOLT ATTACHED TO STRUCTURE. ENSURE NO OBSTRUCTION TO CABINET DOOR SWING OR AIRFLOW.

2 – POWER ELEVATION AND SCHEMATIC FOR A THREE-RACK TR
NTS



FOR INFORMATIONAL REFERENCE ONLY:
208V PDU TO BE COMPATIBLE WITH CISCO IEC C14-C15 CABINET JUMPER POWER CORD, DEVICE CORDSET PART NUMBER CAB-C15-CBN.

RACK PDU END

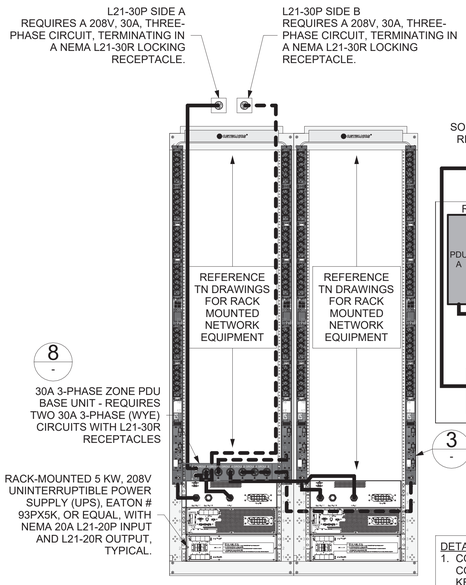
FIGURE 1: IEC 60320 C14 PLUG CONNECTOR.
SOURCE: CISCO SYSTEMS INC.
ILLUSTRATION #113165

DEVICE END

FIGURE 2: IEC 60320 C15 PLUG.
SOURCE: CISCO SYSTEMS INC.
ILLUSTRATION #113165

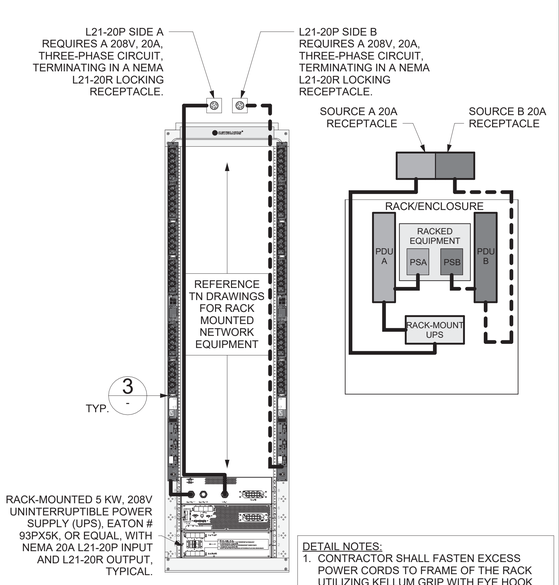
CAB-C15-CBN DETAILS:
1. CORDSET RATED FOR 250VAC, 13A, 60 HZ, 120° C (248° F) AT COUPLER PINS.
2. MAXIMUM OVERALL LENGTH OF 4 FT.
3. VERIFY CORDSET COMPATIBILITY WITH 208VAC SOURCE POWER BEFORE CONNECTING
4. VERIFY DEVICE COMPATIBILITY WITH 208VAC INPUT POWER BEFORE CONNECTING.

3 – 208V RACK PDU FOR TRs
NTS



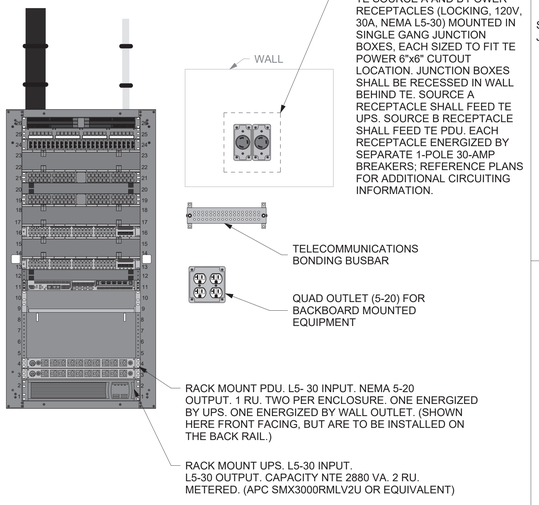
DETAIL NOTES:
1. CONTRACTOR SHALL FASTEN EXCESS POWER CORDS TO FRAME OF THE RACK UTILIZING KELLUM GRIP WITH EYE HOOK BOLT ATTACHED TO STRUCTURE. ENSURE NO OBSTRUCTION TO CABINET DOOR SWING OR AIRFLOW.

4 – POWER ELEVATION AND SCHEMATIC FOR A TWO-RACK TR
NTS

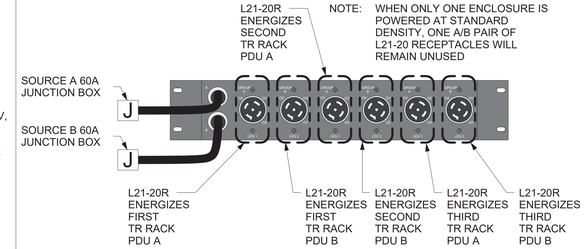


DETAIL NOTES:
1. CONTRACTOR SHALL FASTEN EXCESS POWER CORDS TO FRAME OF THE RACK UTILIZING KELLUM GRIP WITH EYE HOOK BOLT ATTACHED TO STRUCTURE. ENSURE NO OBSTRUCTION TO CABINET DOOR SWING OR AIRFLOW.

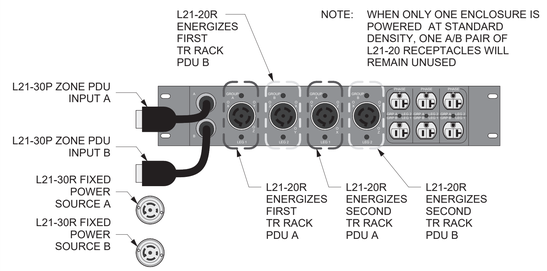
5 – POWER ELEVATION AND SCHEMATIC FOR ONE-RACK TR
NTS



6 – TELECOMMUNICATIONS ENCLOSURE ELEVATION DETAIL
NTS



7 – CONNECTION DETAIL FOR 60A ZONE PDU UNIT SUPPLYING THREE-PHASE
NTS



8 – CONNECTION DETAIL FOR 30A ZONE PDU UNIT SUPPLYING THREE-PHASE
NTS

Revisions:	Date:

CONSULTANT/ DISCIPLINE
DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD
A/E:
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STAMP
LOUIS R. LITZKO, STATE OF WASHINGTON, 55681, 1-16-26, REGISTERED PROFESSIONAL ENGINEER

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

Drawing Title: ELECTRICAL DETAILS
Approved:
Phase: 100% CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED
Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Issue Date: 01/16/2026
Checked: NVP/DCW
Drawn: RTS/KDB
Project Number: 405-22-700
Building Number: -
Drawing Number: EP502

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1 16/01/2026 3:54:07 am
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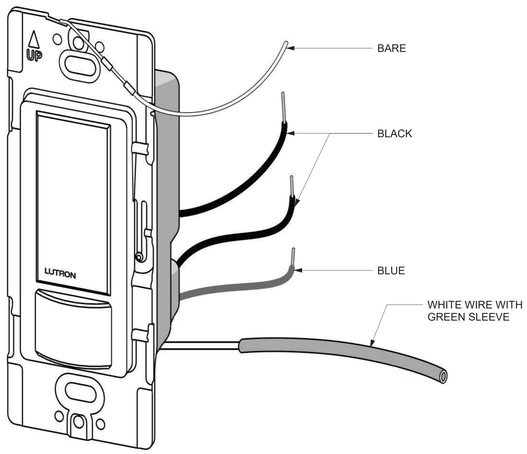
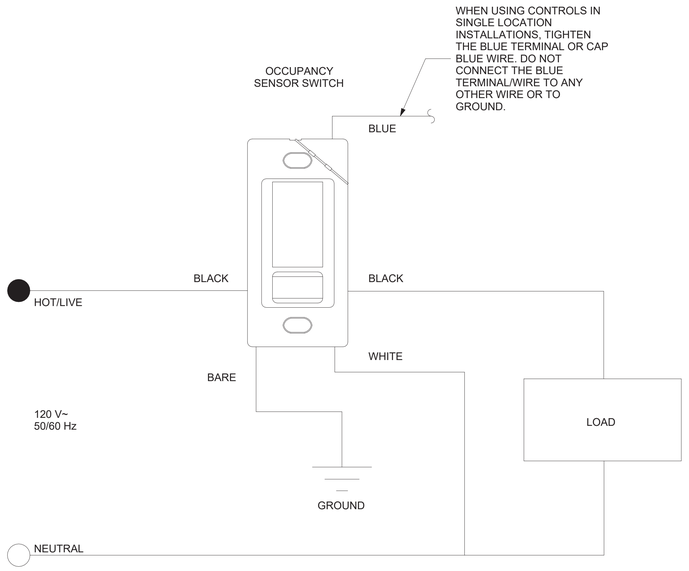
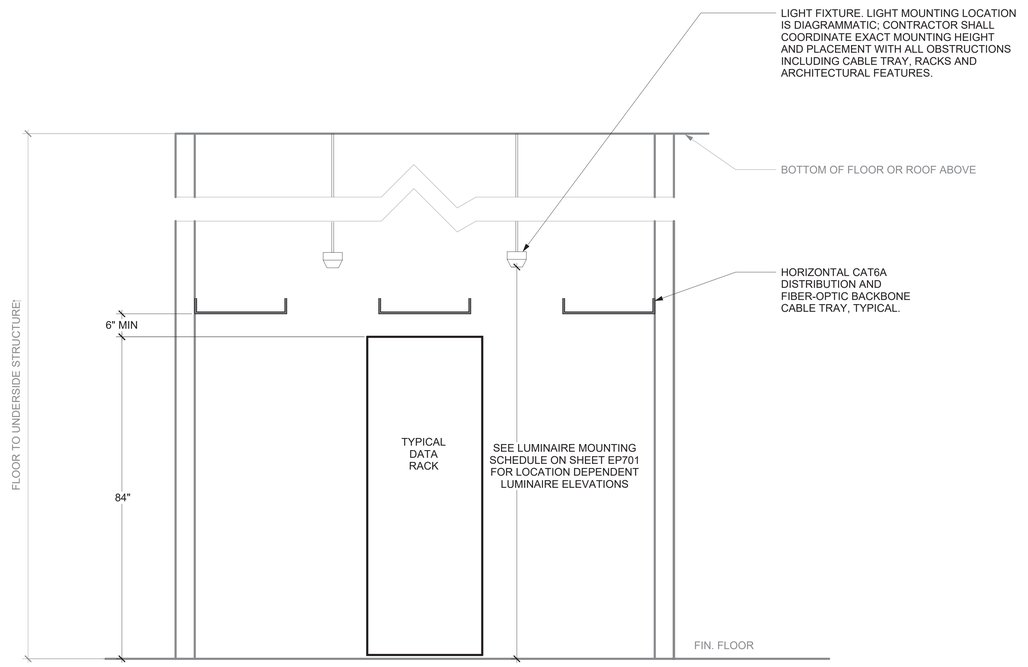


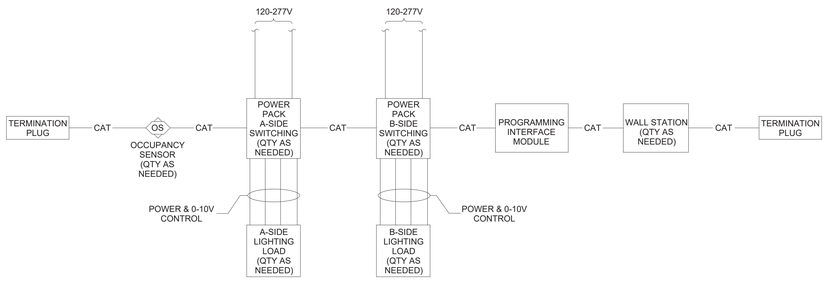


1 TYPICAL WALL SWITCH OCCUPANCY SENSOR
NTS

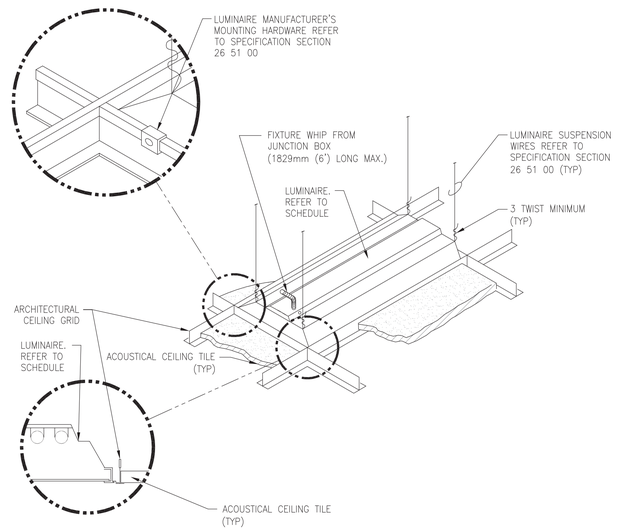


2 TYPICAL TELECOMMUNICATIONS ROOM ELEVATION
3/4" = 1'-0"

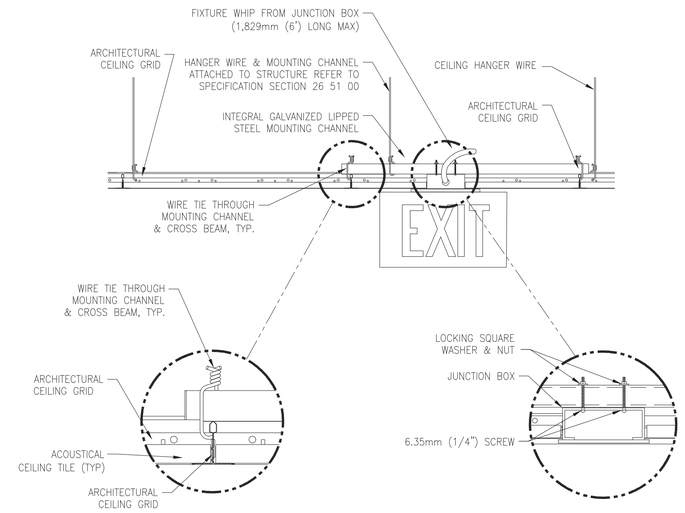
DETAIL NOTE(S):
1. REFERENCE PLANS FOR FIELD DEVICE QUANTITIES. PROVIDE CONTROL CABLING AND WIRING AS REQUIRED.
2. PROVIDE A COMPLETE AND FULLY FUNCTIONAL LIGHTING SYSTEM.



3 LOW-VOLTAGE SENSOR LIGHTING WIRING DIAGRAM
001EL403a
001EL403b
001EL403c
NTS



4 RECESSED LIGHTING INSTALLATION
028EP401
NTS



5 EXIT SIGN INSTALLATION DETAIL
001EL403a
001EL403c
NTS

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

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55681
1-16-26
REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL DETAILS

Phase: 100% CONSTRUCTION DOCUMENTS

Approved:

FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER

Location: VA VT WHITE RIVER JUNCTION
163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009

Issue Date: 01/16/2026

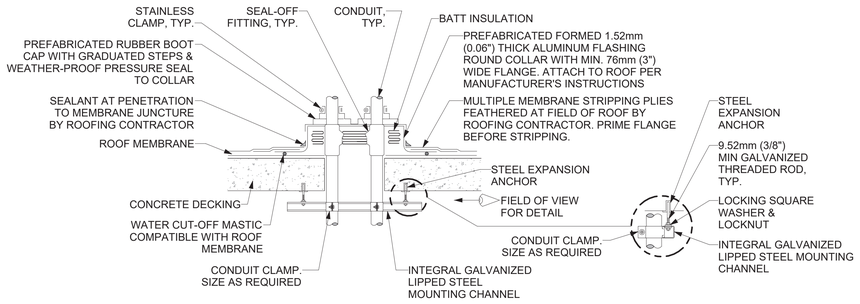
Checked: NVP/DCW

Drawn: RTS/KDB

Project Number: 405-22-700

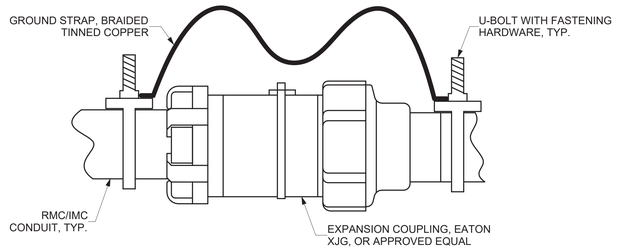
Building Number: -

Drawing Number: EP503

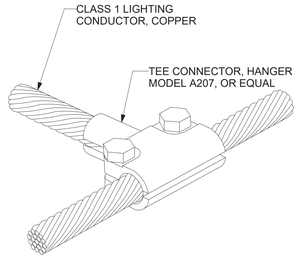


GENERAL NOTES:
1. MAINTAIN A MINIMUM CLEARANCE OF 305mm (12") ON ALL SIDES OF ROOF PENETRATION FROM WALLS, CURBS, AND OTHER PROJECTIONS TO FACILITATE PROPER FLASHING.
2. FLANGES OF ADJACENT FLASHINGS SHALL NOT BE CUT OR OVERLAPPED.
3. VERIFY ROOF & STRUCTURAL SYSTEM WITH ARCHITECT.
4. COORDINATE FLASHING INSTALLATION WITH ROOFING CONTRACTOR TO ENSURE PROPER METHODS & MATERIALS ARE USED TO MAINTAIN ROOF WARRANTY.

1 – CONDUIT ROOF PENETRATION DETAIL
NTS

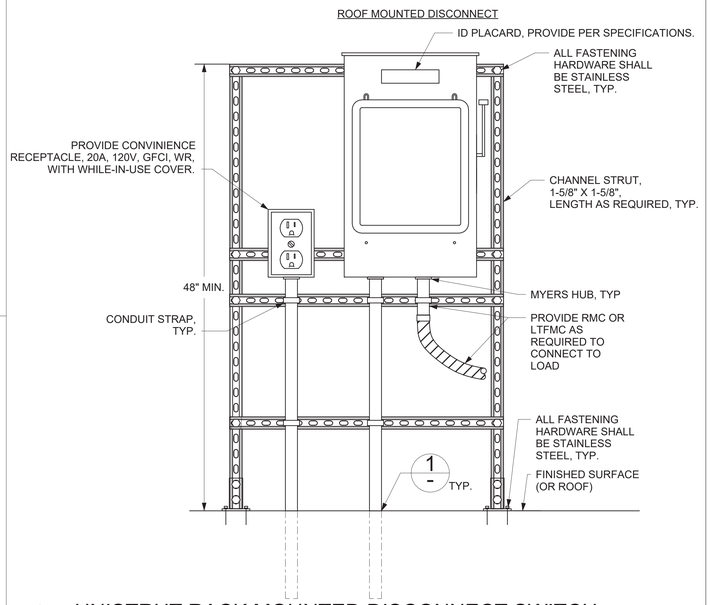


2 – CONDUIT EXPANSION JOINT DETAIL
NTS



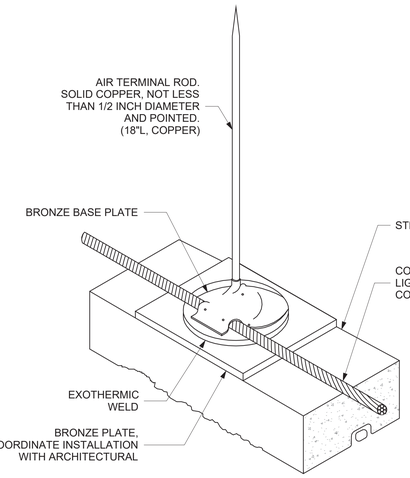
3 – LIGHTNING CONDUCTOR TEE CONNECTOR
001EP102 NTS
028EP103
031EP103

DETAIL NOTES:
1. ALL CHANNEL STRUT, POST BASES AND ACCESSORIES SHALL BE HOT-DIPPED GALVANIZED, UNLESS SPECIFICALLY NOTED OTHERWISE.
2. DETAIL INDICATES GENERAL LAYOUT REQUIREMENTS. CONTRACTOR SHALL SIZE RACK ACCORDINGLY TO MOUNT ALL REQUIRED EQUIPMENT AS SHOWN ON PLANS; ADDITIONAL HORIZONTAL AND/OR VERTICAL STRUCTURAL MEMBERS MAY BE REQUIRED.
3. WHERE SHOWN ON PLANS, PROVIDE RACK MOUNTED CONVENIENCE RECEPTACLE, 20A, 120V, GFCI, WR, WITH WHILE-IN-USE COVER. PROVIDE ALL REQUIRED CONDUIT, STRUT, AND FASTENING HARDWARE AS REQUIRED.



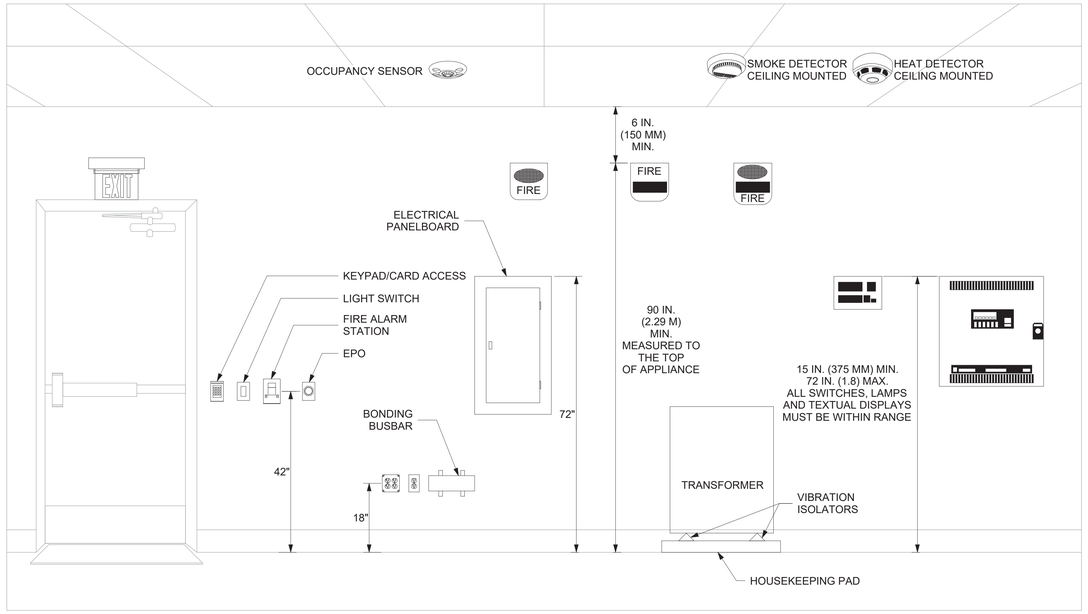
4 – UNISTRUT RACK MOUNTED DISCONNECT SWITCH
001EP102 NTS

DETAIL NOTES:
1. BRONZE CLAMP-TYPE CONNECTORS SHALL BE USED FOR ROOF CONDUCTOR SPLICES, AND THE CONNECTION TO THE ROOF CONDUCTOR TO AIR TERMINALS AND BONDING PLATES.
2. CRIMP-TYPE CONNECTORS ARE NOT ALLOWED.



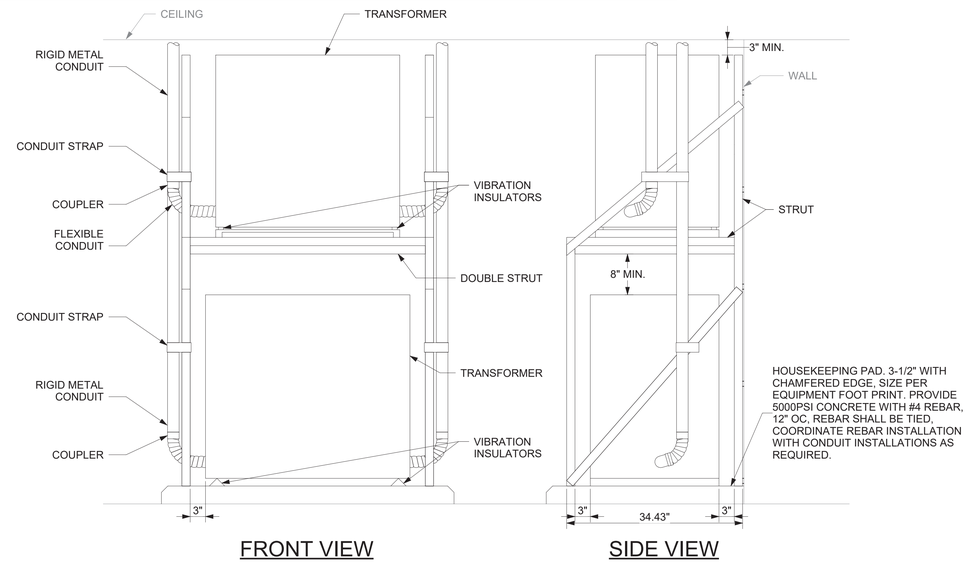
5 – NON-PEAKED AIR TERMINAL ROD INSTALLATION DETAIL
031EP103 NTS

DETAIL NOTE(S):
1. THESE TYPICAL MOUNTING HEIGHTS SHALL BE USED UNLESS OTHERWISE NOTED ON THE PLANS.
2. EQUIPMENT HOUSEKEEPING PADS SHALL BE 5000-PSI CONCRETE, 3-1/2"H, #4 REBAR EVERY 12" ON CENTER. COORDINATE WITH CAST-IN-PLACE CONCRETE SPECIFICATION FOR ADDITIONAL INFORMATION. HOUSEKEEPING PAD SHALL EXTEND 4" BEYOND EQUIPMENT FOOTPRINT.



6 – TYPICAL MOUNTING HEIGHT DETAIL
NTS

DETAIL NOTE(S):
1. TYPICAL DETAIL SHALL BE USED FOR CONSTRUCTABILITY REFERENCE. EXACT DIMENSIONS, MOUNTING SUPPORTS, AND FASTENING HARDWARE MAY DIFFER FROM FIELD INSTALLATION.
2. ALL CONDUIT NOT SHOWN FOR CLARITY.
3. WHERE A NEW TRANSFORMER IS BEING MOUNTED ABOVE AN EXISTING TRANSFORMER, THE FACE OF THE NEW TRANSFORMER SHALL BE EVEN WITH THE FACE OF THE EXISTING TRANSFORMER. UNISTRUT STRUT MOUNTING SUPPORTS SHALL BE ARRANGED AS REQUIRED TO COORDINATE WITH EXISTING CONDITIONS.



7 – TYPICAL TRANSFORMER STACKING MOUNTING DETAIL
1" = 1'-0"

Revisions:	**Date:**

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
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SDB SPEESDESIGNBUILD

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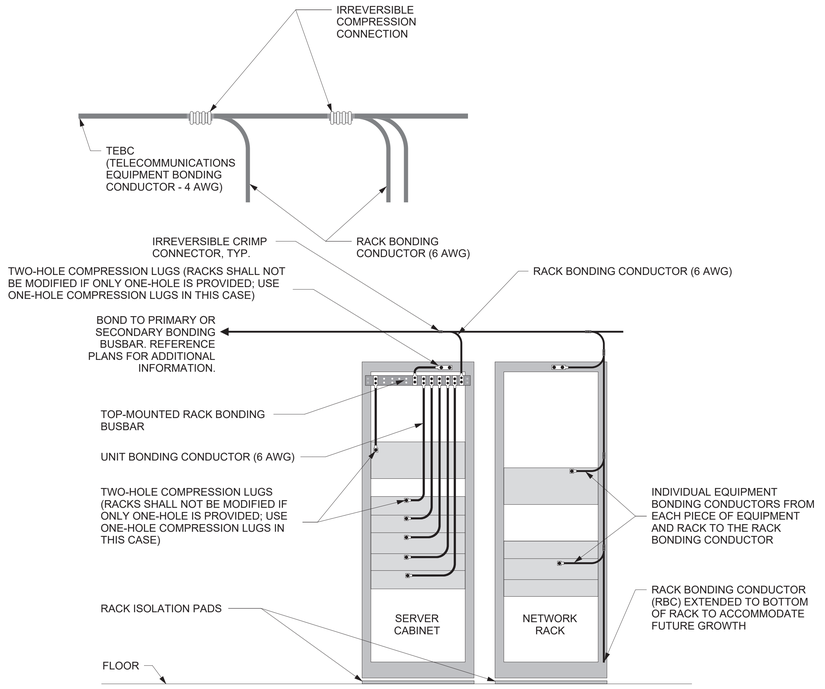
LOUIS R. LITZKO — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	ELECTRICAL DETAILS
Phase	100% CONSTRUCTION DOCUMENTS
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Project Number	405-22-700
Approved:	FULLY SPRINKLERED
Building Number	-
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Drawing Number	EP504
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB

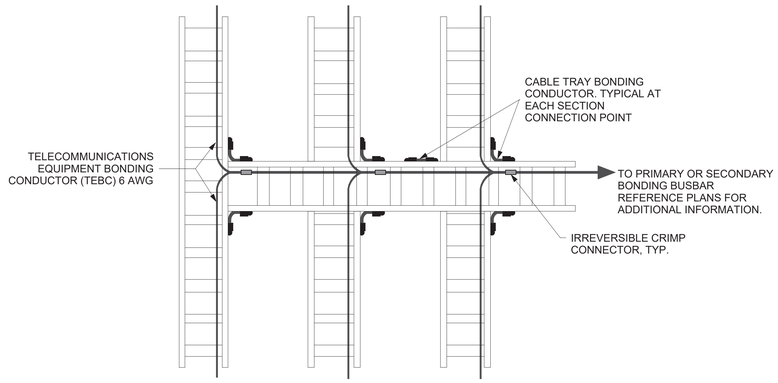


1 TYPICAL TELECOMMUNICATIONS CABINET & RACK BONDING DETAIL

001EB403a
001EB403b
NTS

DETAIL NOTES:

1. ALL BONDING CONDUCTORS SHALL FOLLOW SIZING REQUIREMENTS SPECIFIED IN ANSI/TIA-607-E.
2. REFERENCE SHEET EG601 AND EG602 FOR ADDITIONAL INFORMATION.

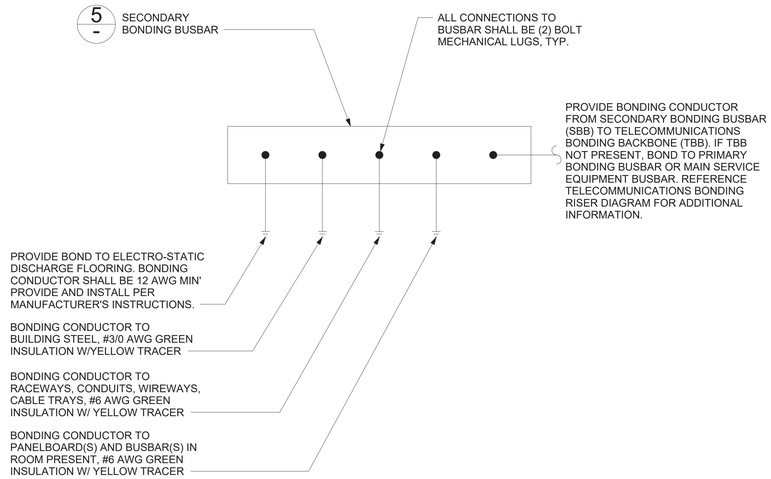


2 CABLE TRAY GROUNDING/BONDING REQUIREMENTS

001EB403a
NTS

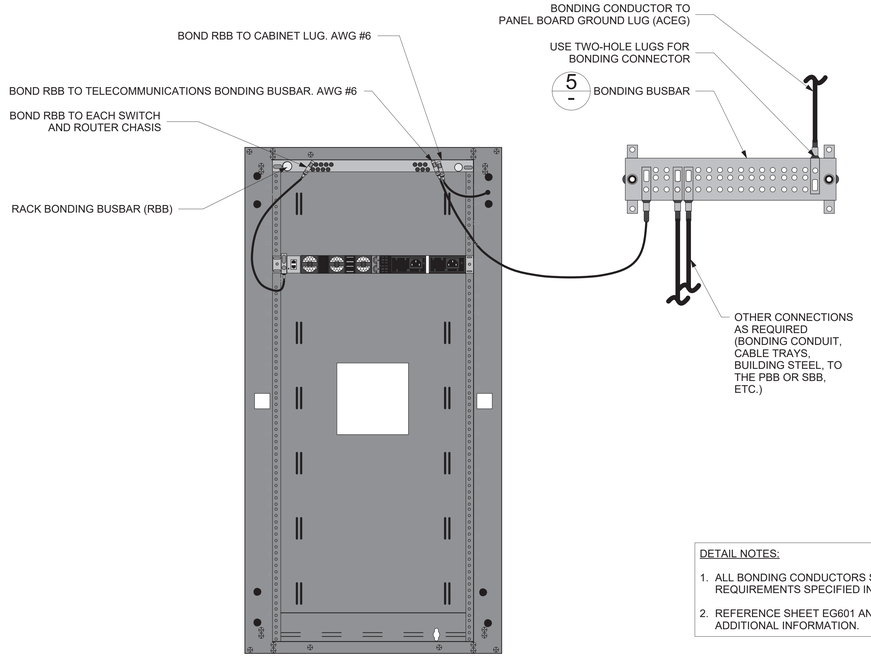
DETAIL NOTES:

1. ALL BONDING CONDUCTORS SHALL FOLLOW SIZING REQUIREMENTS SPECIFIED IN ANSI/TIA-607-E.
2. REFERENCE SHEET EG601 AND EG602 FOR ADDITIONAL INFORMATION.



3 TYPICAL SBB BONDING DETAIL

NTS



DETAIL NOTES:

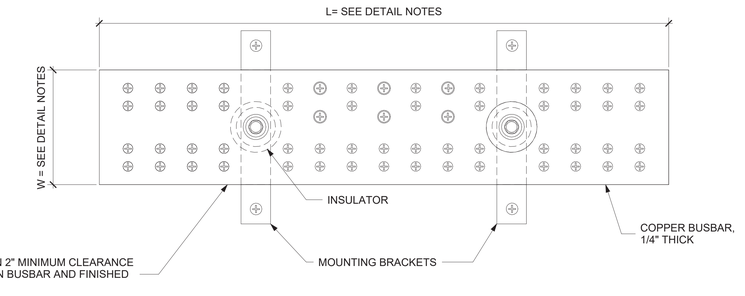
1. ALL BONDING CONDUCTORS SHALL FOLLOW SIZING REQUIREMENTS SPECIFIED IN ANSI/TIA-607-D.
2. REFERENCE SHEET EG601 AND EG602 FOR ADDITIONAL INFORMATION.

4 TELECOMMUNICATIONS ENCLOSURE GROUNDING DETAIL

NTS

DETAIL NOTES:

1. SECONDARY BONDING BUSBAR (SBB) SHALL BE 16 INCHES LONG, 2 INCHES WIDE.
2. PRIMARY BONDING BUSBAR (PBB) SHALL BE 20 INCHES LONG, 4 INCHES WIDE.



5 TYPICAL PBB AND SBB BONDING BUSBAR DETAIL

NTS

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

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STATE OF WASHINGTON
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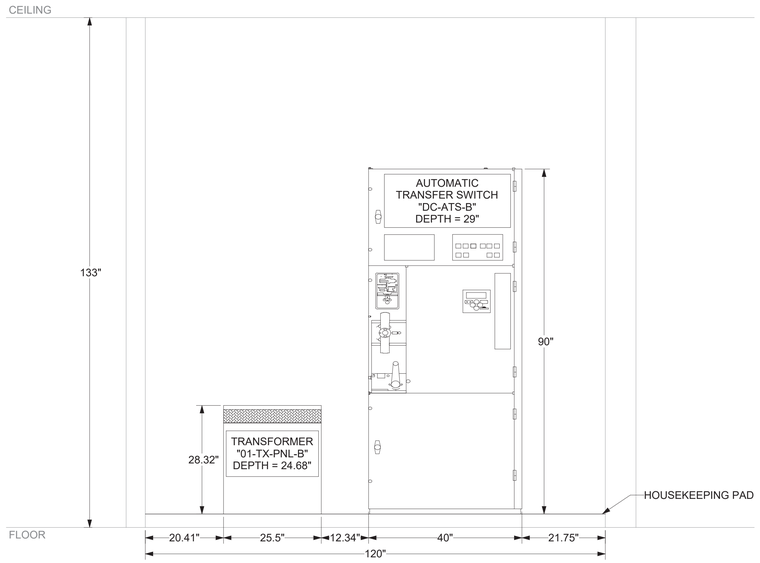
1-16-26
REGISTERED
PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL DETAILS	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER		Project Number: 405-22-700
		Building Number: -
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009		Drawing Number: EP505
Issue Date: 01/16/2026	Checked: NVP/DCW	Drawn: RTS/KDB

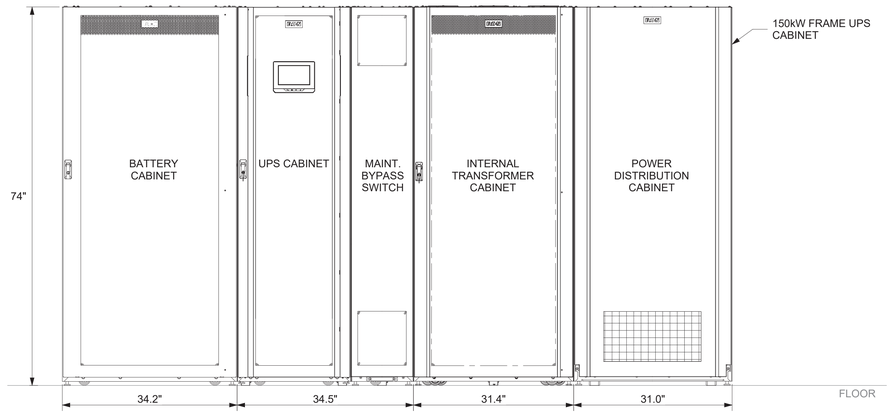


1 ELEVATION DETAIL FOR 'DC-TX-PNL-B' AND 'DC-ATS-B'

031EP400Ba 3/4" = 1'-0"

DETAIL NOTE(S):

1. UPS A AND UPS B SHALL HAVE A MIRRORED LAYOUT WITH POWER DISTRIBUTION CABINETS CLOSEST TO MAIN DISTRIBUTION AREA AND BATTERY CABINET FURTHEST AWAY.
2. MAINTENANCE BYPASS SWITCH CAN BE INSTALLED ON THE RIGHT OR LEFT OF UPS CABINET.
3. EACH CABINET DEPTH IS 42"
4. UPS IS TOP AIR EXHAUSTED.
5. UPS SHALL BE ENERGY SAVER SYSTEM (ESS) PROVIDING 99% EFFECIENCY RATING.
6. UPS SHALL SUPPORT BOTH MONITORING AND REMOTE MANAGEMENT TO INCLUDE:
   A. FULL COMPLIANCE WITH RFC-1628 - UPS MANAGEMENT INFORMATION BASE.
   B. SUPPORT SNMP V3.0, BACNET AND MODBUS PROTOCOLS.
   C. PROVIDE CONNECTION TO BMS SYSTEM VIA CAT-6A ETHERNET CONNECTION.
   D. UPS SHALL BE MANAGED AND REPORT THE FOLLOWING TO THE FACILITY BMS:
      I. OVERLOAD (CRITICAL).
      II. BATTERY TEMP (CRITICAL).
      III. LOW BATTERY.
      IV. BATTERY FAILURE (CRITICAL.)
      V. GENERAL CRITICAL ALARM (IE: FAN FAILURE, INTERNAL FAULT, BYPASS, ETC.)
7. UPS SHALL CONTAIN BATTERY MANAGEMENT SYSTEM.
8. REFERENCE SPECIFICATION 26 33 53 "STATIC UNINTERRUPTIBLE POWER SUPPLY" FOR ADDITIONAL INFORMATION.

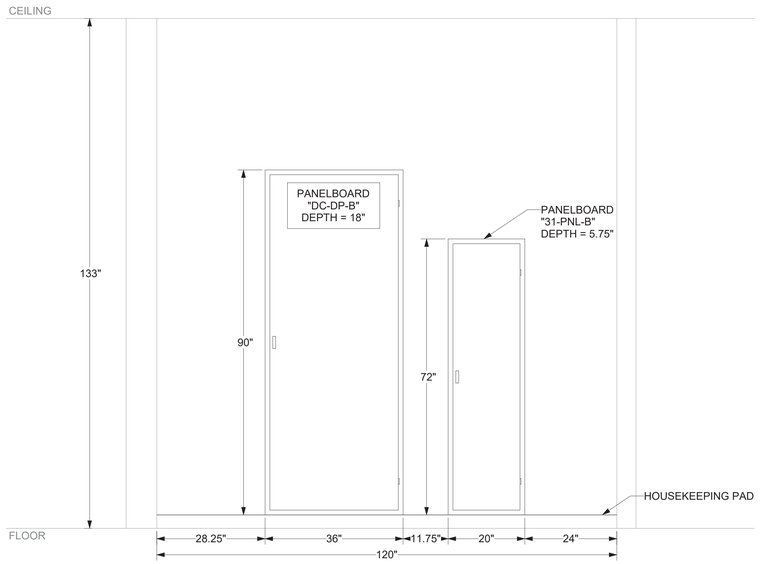


2 TYPICAL UPS ELEVATION

031EP400Ba NTS

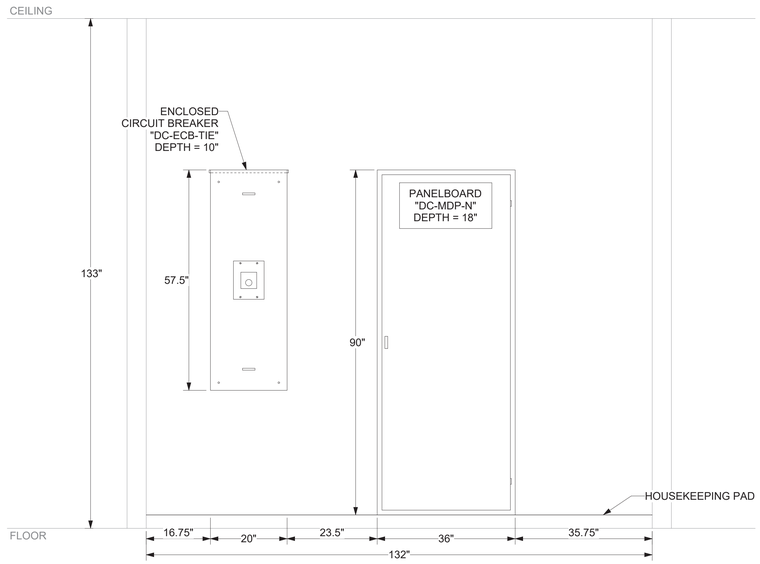
GENERAL NOTES

1. ALL DIMENSIONS FOR NEW EQUIPMENT ARE BASED ON BASIS-OF-DESIGN EQUIPMENT SELECTIONS. PRIOR TO EQUIPMENT PROCUREMENT, CONTRACTOR SHALL PROVIDE DETAILED AND DIMENSIONED SHOP DRAWINGS INDICATING PROPOSED ELECTRICAL DISTRIBUTION EQUIPMENT LAYOUT FOR ALL ELECTRICAL EQUIPMENT INSTALLATIONS DURING THE SUBMITTAL PROCESS FOR VA AND ENGINEER REVIEW AND APPROVAL.
2. DETAILS SHALL BE USED FOR CONSTRUCTABILITY REFERENCE, EXACT DIMENSIONS, MOUNTING SUPPORTS, AND FASTENING HARDWARE MAY DIFFER FROM FIELD INSTALLATION. CONTRACTOR SHALL PROVIDE ALL MOUNTING AND FASTENING HARDWARE AS REQUIRED,
3. NOT ALL CONDUIT MAY BE SHOWN FOR CLARITY.
4. PROVIDE SEISMIC BRACING AS REQUIRED.
5. ALL HOUSEKEEPING PADS SHALL BE 5000-PSI CONCRETE, 3-1/2"H, #4 REBAR EVERY 12" ON CENTER. COORDINATE WITH CAST-IN-PLACE CONCRETE SPECIFICATION FOR ADDITIONAL INFORMATION. HOUSEKEEPING PAD SHALL EXTEND 4" BEYOND EQUIPMENT FOOTPRINT.
6. REFERENCE ONE-LINE DIAGRAMS FOR ADDITIONAL INFORMATION.
7. MAKE ALL CONNECTIONS TO EQUIPMENT PER MANUFACTURER'S REQUIREMENTS.



3 ELEVATION DETAIL FOR 'DC-DP-B' AND '31-PNL-B'

031EP400Ba 3/4" = 1'-0"



4 ELEVATION DETAIL FOR 'DC-ECB-TIE' AND 'DC-MDP-N'

031EP400Ba 3/4" = 1'-0"

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

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Drawing Title: ELECTRICAL DETAILS	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER

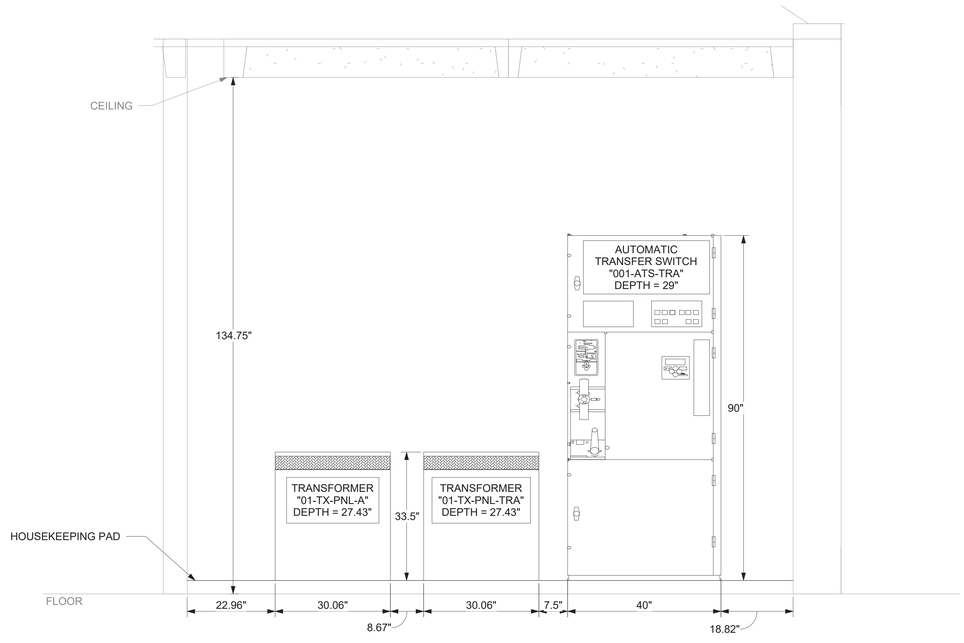
Location: VA VT WHITE RIVER JUNCTION
163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009

Issue Date	Checked	Drawn
01/16/2026	NVP/DCW	RTS/KDB

Project Number: 405-22-700

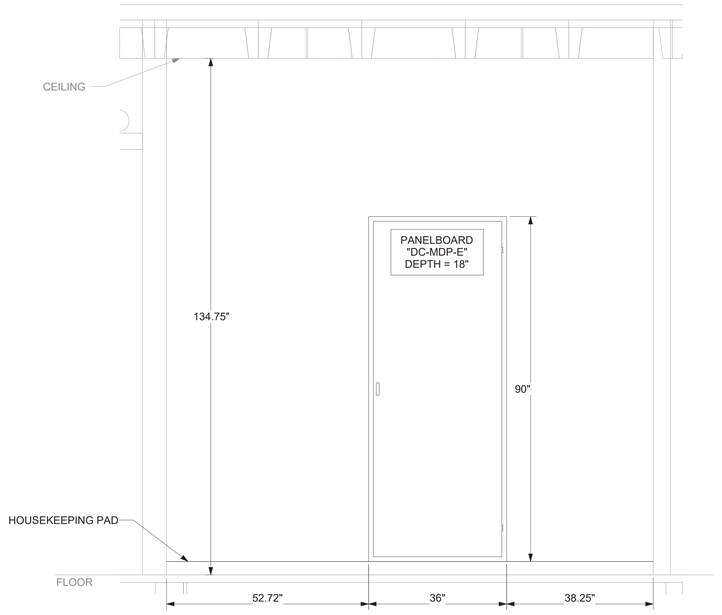
Building Number: -

Drawing Number: EP506



1 001EP403 ELEVATION DETAIL FOR '01-TX-PNL-A', '01-TX-PNL-TRA' AND '001-ATS-TRA'

3/4" = 1'-0"

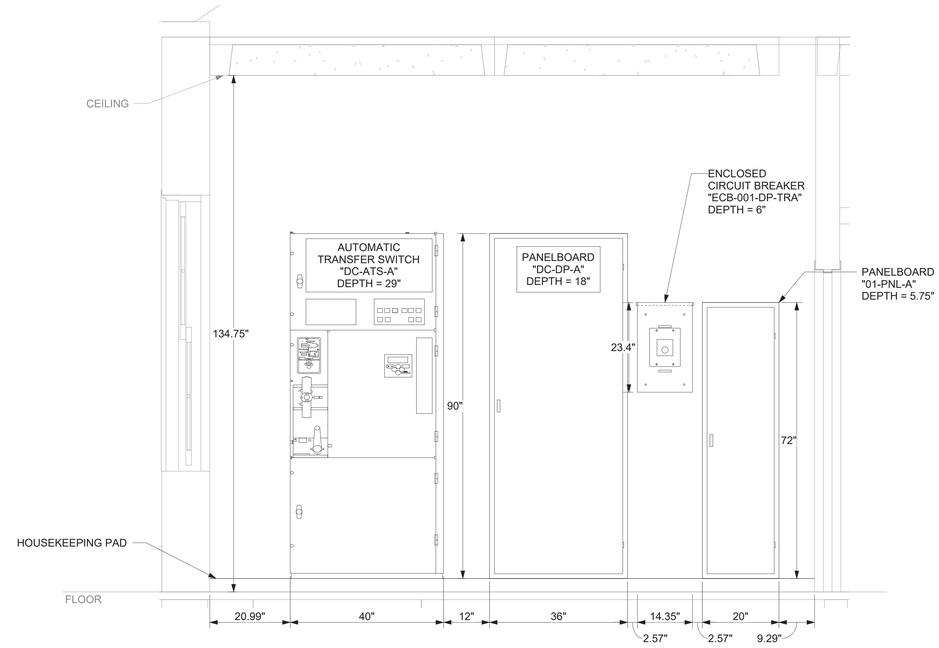


2 001EP403 ELEVATION DETAIL FOR 'DC-MDP-E'

3/4" = 1'-0"

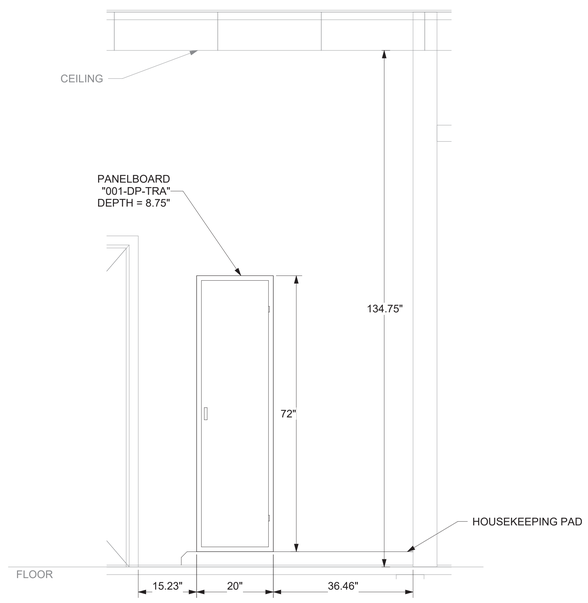
GENERAL NOTES

1. ALL DIMENSIONS FOR NEW EQUIPMENT ARE BASED ON BASIS-OF-DESIGN EQUIPMENT SELECTIONS. PRIOR TO EQUIPMENT PROCUREMENT, CONTRACTOR SHALL PROVIDE DETAILED AND DIMENSIONED SHOP DRAWINGS INDICATING PROPOSED ELECTRICAL DISTRIBUTION EQUIPMENT LAYOUT FOR ALL ELECTRICAL EQUIPMENT INSTALLATIONS DURING THE SUBMITTAL PROCESS FOR VA AND ENGINEER REVIEW AND APPROVAL.
2. DETAILS SHALL BE USED FOR CONSTRUCTABILITY REFERENCE, EXACT DIMENSIONS, MOUNTING SUPPORTS, AND FASTENING HARDWARE MAY DIFFER FROM FIELD INSTALLATION. CONTRACTOR SHALL PROVIDE ALL MOUNTING AND FASTENING HARDWARE AS REQUIRED,
3. NOT ALL CONDUIT MAY BE SHOWN FOR CLARITY.
4. PROVIDE SEISMIC BRACING AS REQUIRED.
5. ALL HOUSEKEEPING PADS SHALL BE 5000-PSI CONCRETE, 3-1/2"H, #4 REBAR EVERY 12" ON CENTER. COORDINATE WITH CAST-IN-PLACE CONCRETE SPECIFICATION FOR ADDITIONAL INFORMATION. HOUSEKEEPING PAD SHALL EXTEND 4" BEYOND EQUIPMENT FOOTPRINT.
6. REFERENCE ONE-LINE DIAGRAMS FOR ADDITIONAL INFORMATION.
7. MAKE ALL CONNECTIONS TO EQUIPMENT PER MANUFACTURER'S REQUIREMENTS.



3 001EP403 ELEVATION DETAIL FOR 'DC-ATS-A', 'DC-DP-A' AND '01-PNL-A'

3/4" = 1'-0"



4 001EP403 ELEVATION DETAIL FOR '001-DP-TRA'

3/4" = 1'-0"

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

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55681
1-16-26
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PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

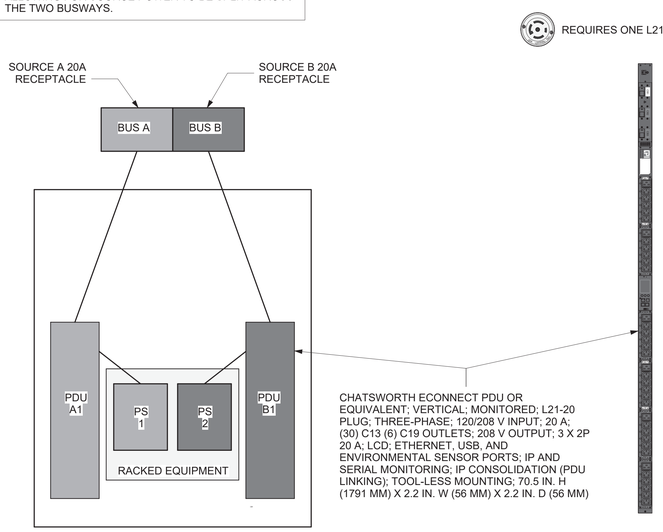
VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL DETAILS	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER			Project Number: 405-22-700
			Building Number: -
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009			Drawing Number: EP507
Issue Date: 01/16/2026	Checked: NVP/DCW	Drawn: RTS/KDB	

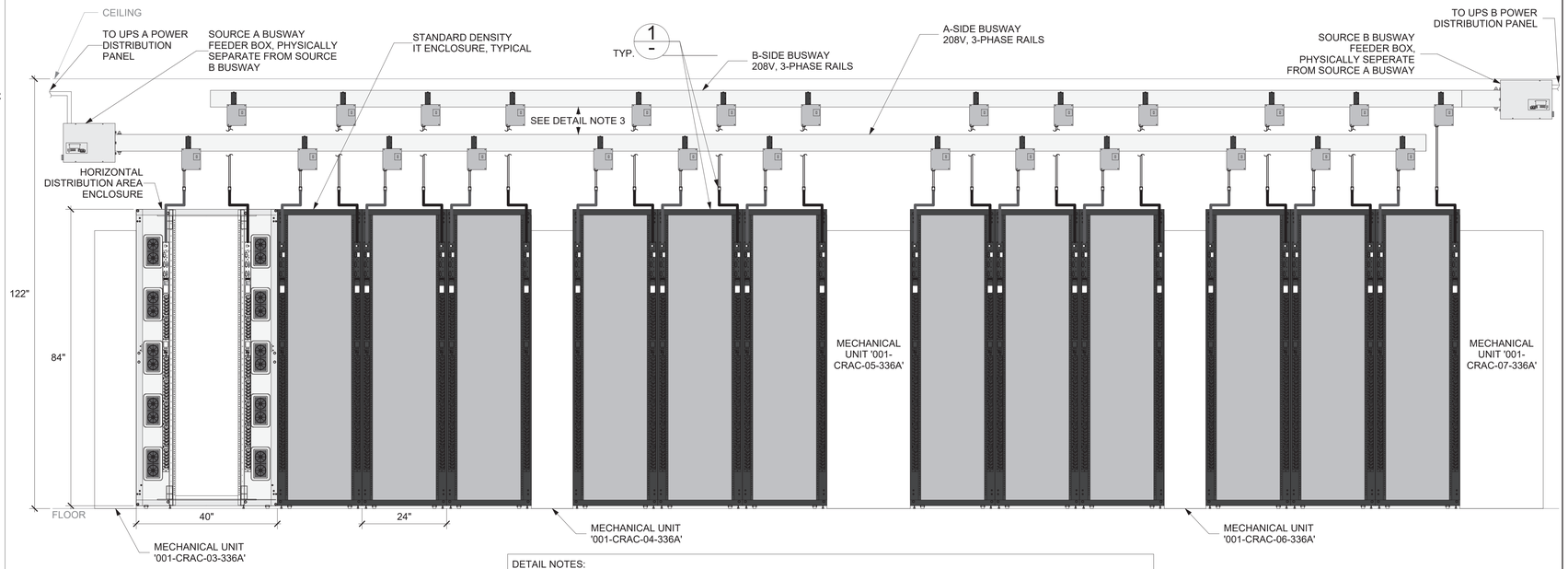
EACH RACK WILL CONTAIN:

1. ONE L21-20C DROP PER BUSWAY.
2. A MINIMUM OF TWO ZERO U VERTICAL RACK PDUs UTILIZING SEPARATE BUSWAY TAP INPUTS.
3. DIVERSE POWER INPUTS FOR ACTIVE EQUIPMENT ALLOWING FOR SOURCE POWER TO BE SPLIT ACROSS THE TWO BUSWAYS.



1 POWER SCHEMATIC FOR STANDARD DENSITY DATA CENTER ENCLOSURE DETAIL

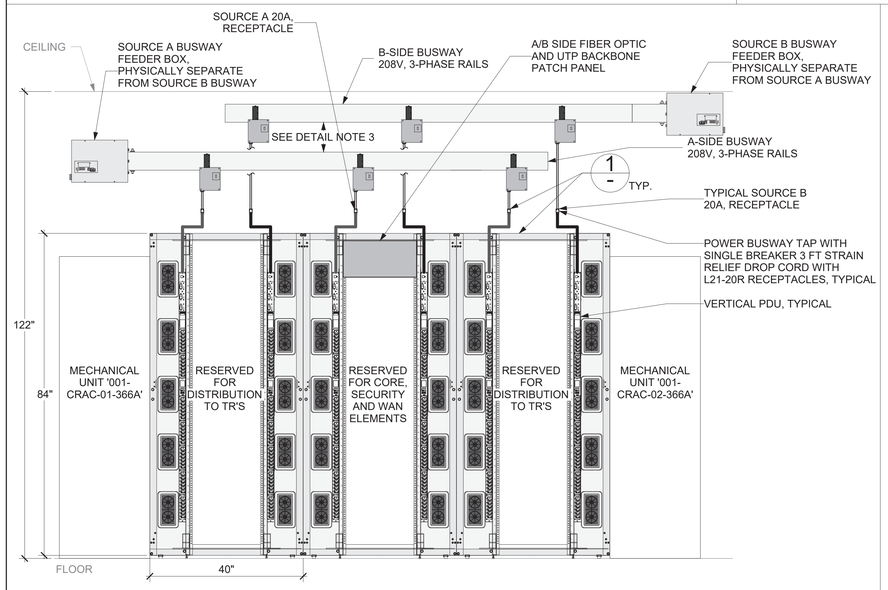
1 / EP506 — NTS



DETAIL NOTES:
1. MDA A AND B WILL HAVE A MIRRORED LAYOUT, WITH THE OUTER MOST CABINETS BEING THE TR DISTRIBUTION CABINETS.
2. EACH CABINET HAS A DEPTH OF 43.3".
3. BUSWAY 'A' AND 'B' ARE PHYSICALLY SEPARATE BY AT LEAST 1' BUT ARE AT THE SAME ELEVATION WITH 'A' IN FRONT OF 'B'.
4. CONTRACTOR SHALL FASTEN EXCESS POWER CORDS TO FRAME OF THE RACK UTILIZING KELLUM GRIP WITH EYE HOOK BOLT ATTACHED TO STRUCTURE. ENSURE NO OBSTRUCTION TO CABINET DOOR SWING OR AIRFLOW.

2 SERVER CABINET ROW POWER ELEVATION

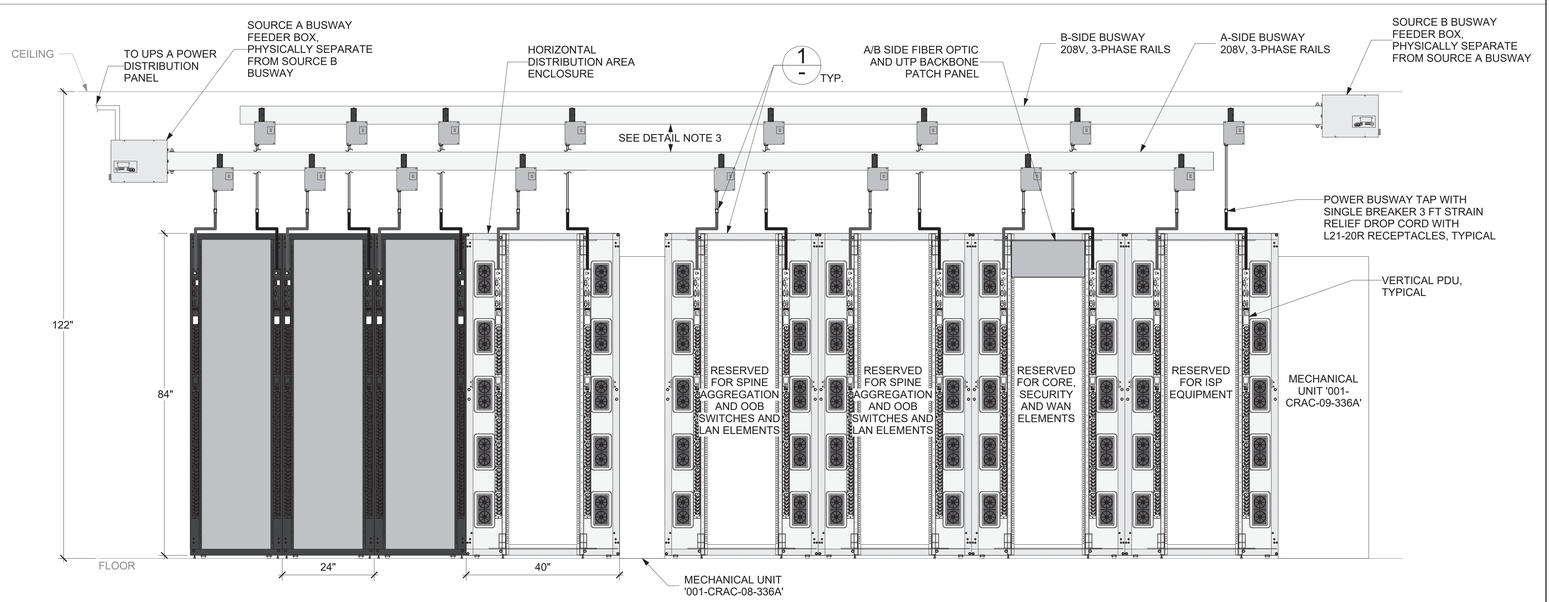
2 / 001EP403a — 3/4" = 1'-0"



DETAIL NOTES:
1. MDA A AND B WILL HAVE A MIRRORED LAYOUT, WITH THE OUTER MOST CABINETS BEING THE TR DISTRIBUTION CABINETS.
2. EACH CABINET HAS A DEPTH OF 43.3".
3. BUSWAY 'A' AND 'B' ARE PHYSICALLY SEPARATE BY AT LEAST 1' BUT ARE AT THE SAME ELEVATION WITH 'A' IN FRONT OF 'B'.
4. CONTRACTOR SHALL FASTEN EXCESS POWER CORDS TO FRAME OF THE RACK UTILIZING KELLUM GRIP WITH EYE HOOK BOLT ATTACHED TO STRUCTURE. ENSURE NO OBSTRUCTION TO CABINET DOOR SWING OR AIRFLOW.

3 SERVER CABINET ROW POWER ELEVATION

3 / 001EP403a — 3/4" = 1'-0"



DETAIL NOTES:
1. MDA A AND B WILL HAVE A MIRRORED LAYOUT, WITH THE OUTER MOST CABINETS BEING THE TR DISTRIBUTION CABINETS.
2. EACH CABINET HAS A DEPTH OF 43.3".
3. BUSWAY 'A' AND 'B' ARE PHYSICALLY SEPARATE BY AT LEAST 1' BUT ARE AT THE SAME ELEVATION WITH 'A' IN FRONT OF 'B'.
4. CONTRACTOR SHALL FASTEN EXCESS POWER CORDS TO FRAME OF THE RACK UTILIZING KELLUM GRIP WITH EYE HOOK BOLT ATTACHED TO STRUCTURE. ENSURE NO OBSTRUCTION TO CABINET DOOR SWING OR AIRFLOW.

4 SERVER CABINET ROW POWER ELEVATION

4 / 001EP403b — 3/4" = 1'-0"

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

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STAMP

LOUIS R. LITZKO — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL DETAILS	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER

Project Number: 405-22-700

Building Number: -

Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009

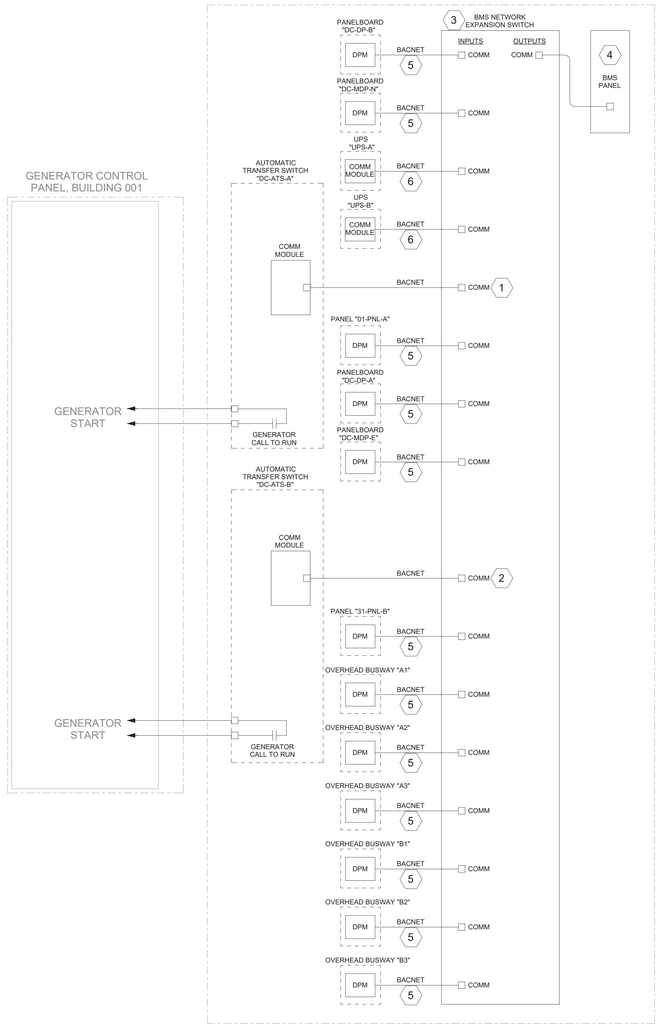
Drawing Number: EP508

Issue Date	Checked	Drawn
01/16/2026	NVP/DCW	RTS/KDB

VA FORM 08 - 6231

16/01/2026 3:54:51 am

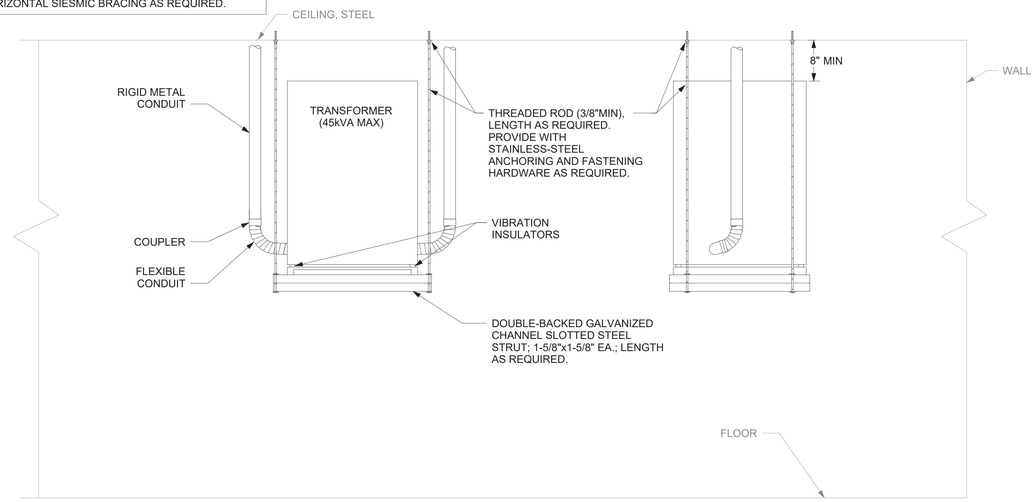
Autodesk Docs://405-22-700 VA VT White River Junction EHRM IU/VAWR_GENERAL SHEETS_EL_SDB.rvt



1 DATA CENTER EQUIPMENT CONTROL AND STATUS WIRING DIAGRAM

001EP403d NTS

DETAIL NOTE(S):
1. TYPICAL DETAIL SHALL BE USED FOR CONSTRUCTABILITY REFERENCE. EXACT DIMENSIONS, MOUNTING SUPPORTS, AND FASTENING HARDWARE MAY DIFFER FROM FIELD INSTALLATION.
2. NOT ALL CONDUIT MAY BE SHOWN FOR CLARITY.
3. PROVIDE HORIZONTAL SIESMIC BRACING AS REQUIRED.



FRONT VIEW SIDE VIEW

2 CEILING HUNG TRANSFORMER MOUNTING DETAIL

028EP102 1" = 1'-0"

3 NOT USED

NTS

GENERAL NOTES

1. ALL ELECTRICAL WORK SHALL BE CLOSELY COORDINATED WITH THE CONTRACTORS PHASING OF THE PROJECT. COORDINATE ALL ELECTRICAL WORK WITH ALL OTHER TRADES.
2. MAKE ALL CONNECTIONS TO EQUIPMENT PER MANUFACTURER'S REQUIREMENTS.
3. PRIOR TO EQUIPMENT PROCUREMENT, CONTRACTOR SHALL PROVIDE DETAILED AND DIMENSIONED SHOP DRAWINGS INDICATING PROPOSED ELECTRICAL DISTRIBUTION EQUIPMENT LAYOUT FOR ALL ELECTRICAL EQUIPMENT INSTALLATIONS DURING THE SUBMITTAL PROCESS FOR VA AND ENGINEER REVIEW AND APPROVAL.
4. CONDUIT AND WIRE IS NOT SHOWN ON DETAILS FOR CLARITY PURPOSE.

KEY NOTES

1. DC-ATS-A POINTS TO BE MONITORED, AT MINIMUM, SHALL BE AS FOLLOWS:
   - ATS IN NORMAL POSITION "DC-ATS-A-NPS"
   - ATS IN EMERGENCY POSITION "DC-ATS-A-EPS"
   - ATS NORMAL POWER AVAILABLE "DC-ATS-A-NPA"
   - ATS EMERGENCY POWER AVAILABLE "DC-ATS-A-EPA"
   - ATS FAIL "DC-ATS-A-FAL"
2. DC-ATS-B POINTS TO BE MONITORED, AT MINIMUM, SHALL BE AS FOLLOWS:
   - ATS IN NORMAL POSITION "DC-ATS-B-NPS"
   - ATS IN EMERGENCY POSITION "DC-ATS-B-EPS"
   - ATS NORMAL POWER AVAILABLE "DC-ATS-B-NPA"
   - ATS EMERGENCY POWER AVAILABLE "DC-ATS-B-EPA"
   - ATS FAIL "DC-ATS-B-FAL"
3. BMS NETWORK EXPANSION SWITCH. PROVIDE SWITCH SIZED TO SUPPORT QUANTITY OF INPUTS AND OUTPUTS AS INDICATED. REFERENCE MECHANICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. BMS PANEL SHALL BE ACCOMPANIED BY I/O EXPANSION MODULES AS REQUIRED FOR ALL ELECTRICAL AND MECHANICAL EQUIPMENT CONTROL AND STATUS. PROVIDE ALL TERMINATIONS, CABLING, RACEWAYS, PROGRAMMING AND APPURTENANCES AS REQUIRED TO PROVIDE A COMPLETE AND FULLY FUNCTIONAL SYSTEM. REFERENCE MECHANICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. DATA POINT SHALL RECORD kVA, kW, AND AMPERAGE AT A MINIMUM.
6. UPS BATTERY MANAGEMENT SYSTEM SHALL BE MONITORED WITH THE FOLLOWING MINIMUM DATA POINTS:
   - OVERLOAD (CRITICAL).
   - BATTERY TEMP (CRITICAL).
   - LOW BATTERY.
   - BATTERY FAILURE (CRITICAL.)
   - GENERAL CRITICAL ALARM (IE: FAN FAILURE, INTERNAL FAULT, BYPASS, ETC.)

Revisions:	Date:

CONSULTANT/ DISCIPLINE

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ARCHITECT/ ENGINEER OF RECORD

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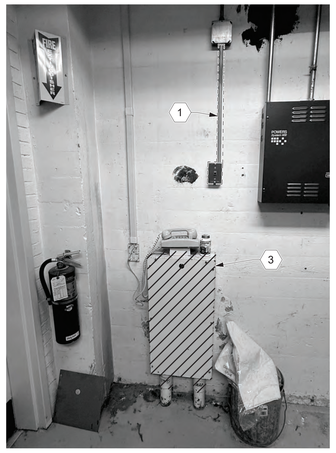
Office of Construction and Facilities Management

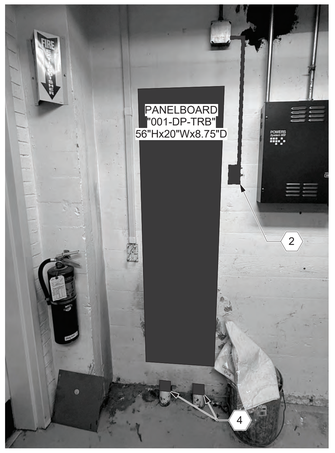
VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL DETAILS	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER	Project Number: 405-22-700
	Building Number: -
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009	Drawing Number: EP509
Issue Date: 01/16/2026 / Checked: NVP/DCW / Drawn: RTS/KDB	

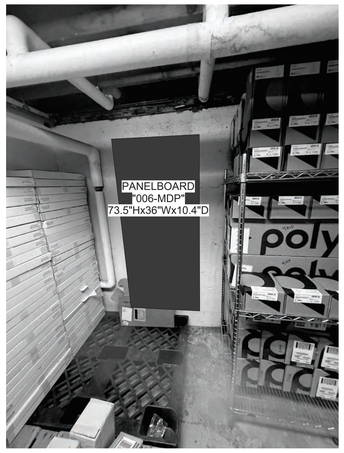


1a - EXISTING

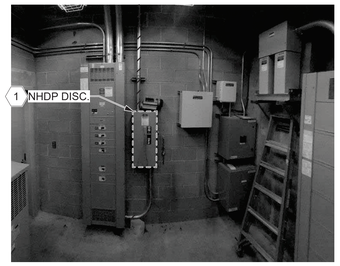


1b - REVISED

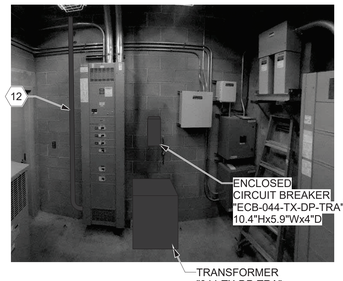
1 001EP400b BUILDING 001 - PANELBOARD "001-DP-TRB" - PHOTO DETAIL
NTS



2 006EP400 BUILDING 006 - PANELBOARD "006-MDP" - PHOTO DETAIL
NTS



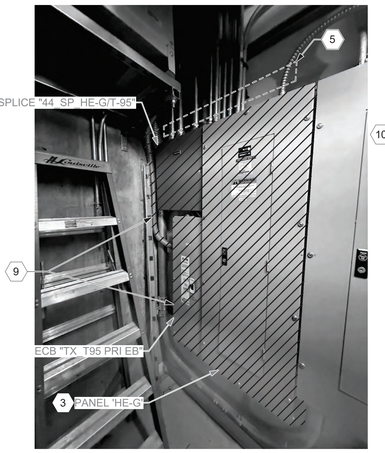
3a - EXISTING



3b - REVISED

3 044EP400a BUILDING 044 - TRANSFORMER "044-TX-DP-TRA" AND ECB "ECB-044-TX-DP-TRA" - PHOTO DETAIL
NTS

4 028EP400B BUILDING 028 - PANELBOARD "028-DP-TRB" - PHOTO DETAIL
NTS



5a - EXISTING

5b - REVISED

5 044EP400b BUILDING 044 - PANELBOARD "HE-G" - PHOTO DETAIL
NTS

6 044EP400a BUILDING 044 - TRANSFORMER "044-TX-DP-TRB" AND ECB "ECB-044-TX-DP-TRB - PHOTO DETAIL
NTS

GENERAL NOTES

1. ALL ELECTRICAL WORK SHALL BE CLOSELY COORDINATED WITH THE CONTRACTORS PHASING OF THE PROJECT. COORDINATE ALL ELECTRICAL WORK WITH ALL OTHER TRADES.
2. MAKE ALL CONNECTIONS TO EQUIPMENT PER MANUFACTURER'S REQUIREMENTS.
3. PRIOR TO EQUIPMENT PROCUREMENT, CONTRACTOR SHALL PROVIDE DETAILED AND DIMENSIONED SHOP DRAWINGS INDICATING PROPOSED ELECTRICAL DISTRIBUTION EQUIPMENT LAYOUT FOR ALL ELECTRICAL EQUIPMENT INSTALLATIONS DURING THE SUBMITTAL PROCESS FOR VA AND ENGINEER REVIEW AND APPROVAL.
4. CONDUIT AND WIRE IS NOT SHOWN ON DETAILS FOR CLARITY PURPOSE.

KEY NOTES

1. EXISTING EQUIPMENT SHALL BE RELOCATED. REFERENCE KEYNOTE '2' ON THIS SHEET OR ASSOCIATED ENLARGED PLANS FOR ADDITIONAL INFORMATION.
2. RELOCATED EQUIPMENT. EXTEND CONDUCTORS AND RACEWAYS AS REQUIRED.
3. EXISTING EQUIPMENT SHALL BE DEMOLISHED. PRESERVE BRANCH CIRCUITS FOR RETERMINATION. REFERENCE ASSOCIATED FLOOR PLANS AND ONE-LINE DIAGRAMS FOR ADDITIONAL INFORMATION.
4. PROVIDE CONDUIT CAPS WHERE INDICATED.
5. EXISTING CIRCUITS INDICATED IN DASHED AREA SHALL BE PRESERVED FOR RE-TERMINATION. REFERENCE EXISTING ONE-LINE DIAGRAMS FOR ADDITIONAL INFORMATION.
6. ALL EXISTING CIRCUITS INDICATED IN DASHED AREA SHALL BE RE-TERMINATED; MODIFY EXISTING RACEWAY AND EXTEND CONDUCTORS AS REQUIRED. REFERENCE REVISED ONE-LINE DIAGRAMS FOR ADDITIONAL INFORMATION.
7. PROVIDE UNISTRUT, MOUNTING SUPPORTS, AND FASTENING HARDWARE AS REQUIRED TO MOUNT EQUIPMENT WHERE INDICATED.
8. DEMOLISH EXISTING FEEDERS INSIDE SPLICE BOX FEEDING EQUIPMENT TRANSFORMER "T-95" AND PANELBOARD "HE-G". EXISTING UPSTREAM FEEDER FROM "ATS_45-1" SHALL BE PRESERVED AND PULLED BACK FOR RETERMINATION. DEMOLISH SPLICE BOX. REFERENCE ONE-LINE DIAGRAMS ON SHEETS 044ED601 AND 044EP601 FOR ADDITIONAL INFORMATION.
9. EXISTING ENCLOSED CIRCUIT BREAKER SHALL BE DEMOLISHED. DEMOLISH ASSOCIATED RACEWAYS AND CONDUCTORS BACK FROM SPLICE BOX AND TO TRANSFORMER "T-95".
10. PROVIDE REPLACEMENT PANELBOARD "HE-G" AND RE-TERMINATE ALL EXISTING CIRCUITS. COORDINATE WITH EXISTING CONDITIONS AND CONDUIT PLACEMENTS FOR EXACT PANELBOARD LOCATION; PROVIDE JUNCTION BOX(ES) AS REQUIRED TO EXTEND RACEWAYS AND CONDUCTORS TO PANELBOARD.
11. PROVIDE UNISTRUT TO MOUNT EQUIPMENT ABOVE EXISTING TRANSFORMER WHERE INDICATED. ENSURE FRONT FACE OF EQUIPMENT IS FLUSH WITH EXISTING TRANSFORMER BELOW.
12. REFEED CONDUIT AND WIRE TO RELOCATED EQUIPMENT. REFERENCE ASSOCIATED ENLARGED PLANS FOR ADDITIONAL INFORMATION.

Revisions:	Date:
1	16/01/2026 3:55:05 am

CONSULTANT/ DISCIPLINE

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Office of Construction and Facilities Management

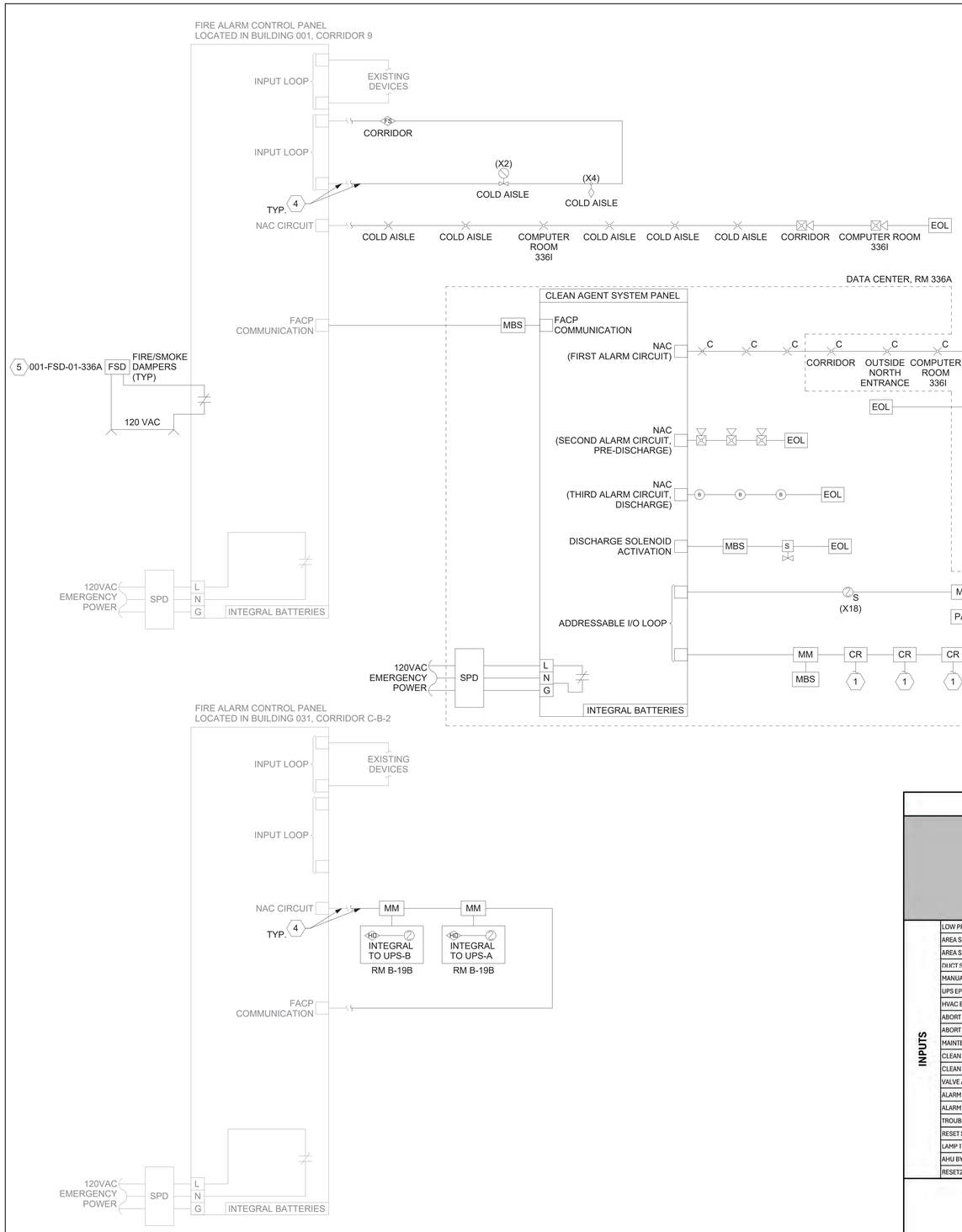
VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL DETAILS	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

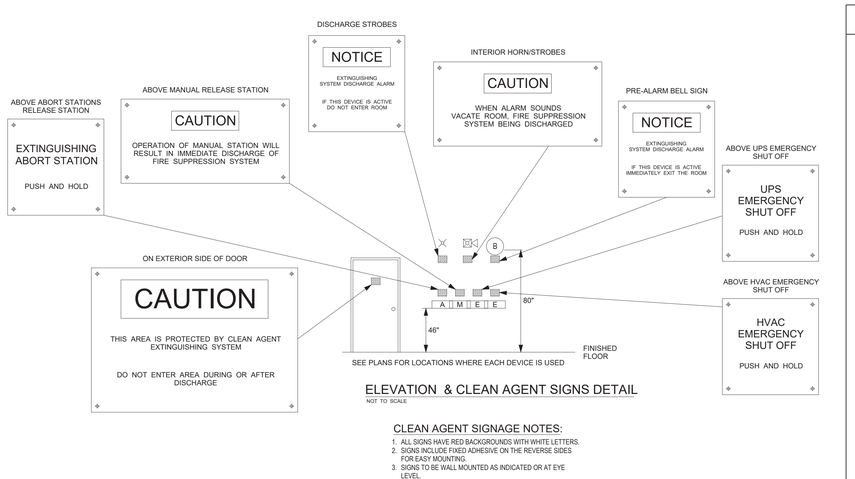
Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER	Project Number: 405-22-700
	Building Number: -
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009	Drawing Number: EP510
Issue Date: 01/16/2026 / Checked: NVP/DCW / Drawn: RTS/KDB	

VA FORM 08 - 6231

Autodesk Docs://405-22-700 VA VT White River Junction EHRM IU/VAWR_GENERAL SHEETS_EL_SDB.rvt



1 DATA CENTER FIRE ALARM RISER DIAGRAM AND I/O MATRIX
001EF403a 001EF403b 001EF403c NTS



2 CLEAN AGENT FIELD DEVICE SIGNAGE DETAIL
001EF403a 001EF403b 001EF403c NTS

ELEVATION & CLEAN AGENT SIGNS DETAIL
NOT TO SCALE

CLEAN AGENT SIGNAGE NOTES:
1. ALL SIGNS HAVE RED BACKGROUNDS WITH WHITE LETTERS.
2. SIGNS INCLUDE FIXED ADHESIVE ON THE REVERSE SIDES FOR EASY MOUNTING.
3. SIGNS TO BE WALL MOUNTED AS INDICATED OR AT EYE LEVEL.

GENERAL NOTES

1. FIRE ALARM DETAILS ARE PROVIDED FOR GENERAL FUNCTIONAL REQUIREMENTS ONLY; CONTRACTOR SHALL PROVIDE ALL REQUIRED EQUIPMENT, RACEWAYS, CABLING, CONNECTIONS, PROGRAMMING, AND COMMISIONING. COORDINATE WITH MECHANICAL, FIRE_ALARM SYSTEM VENDOR, AND CLEAN AGENT SYSTEM VENDOR AS REQUIRED. CONTRACTOR SHALL PROVIDE FIRE ALARM SHOP DRAWINGS REVIEWED AND STAMPED BY A LICENSED FIRE PROTECTION ENGINEER. REFERENCE SPECIFICATIONS 21 22 00, 28 31 00, AND DIVISION 26 FOR ALL REQUIREMENTS TO PROVIDE A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
2. REFERENCE SHEET 01EF401 FOR DEVICE QUANTITIES AND LOCATIONS. DEVICE LOCATIONS AND QUANTITIES MAY CHANGE DEPENDING ON SYSTEM SELECTED. CONTRACTOR SHALL PROVIDE A COMPLETE SUBMITTAL INCLUDING, BUT NOT LIMITED TO: FUNCTIONAL NARRATIVE, WIRING DIAGRAMS, SHOP DRAWINGS, BILL OF MATERIALS, AND RED-LINED FLOOR PLANS STAMPED BY A LICENSED FIRE PROTECTION ENGINEER INDICATING INSTALLATION LOCATIONS FOR REVIEW PRIOR TO COMMENCING WORK.
3. COORDINATE WITH VA, CAMPUS FIRE ALARM CONTRACTOR, AND MECHANICAL CONTRACTOR AS REQUIRED.
4. DATA CENTER FIRE PROTECTION SHALL ADHERE TO NFPA 75. AUTOMATIC DETECTION SHALL BE PROVIDED BY SMOKE DETECTORS (LOCATE AND PROVIDE QUANTITY AS REQUIRED); AUTOMATIC ACTUATION AND NOTIFICATION SHALL BE PROVIDED BY FIRE ALARM SYSTEM. REFERENCE SPECIFICATIONS 21 22 00 AND 28 31 00 FOR ADDITIONAL INFORMATION.
5. COORDINATE WITH EXISTING FACILITY INFRASTRUCTURE, EQUIPMENT, NATIONAL/LOCAL CODES AND MANUFACTURER TO PROVIDE A COMPLETE AND FULLY FUNCTIONAL SYSTEM AS REQUIRED.
6. ALL WIRING SHALL BE ROUTED IN 3/4" CONDUIT (MINIMUM SIZE). ALL RACEWAYS AND BOXES SHALL BE COLORED RED.
7. COORDINATE WITH CIVIL AND TELECOMMUNICAITONS DRAWINGS FOR FIBER-OPTIC CABLING.
8. COORDINATE WITH MECHANICAL DRAWINGS FOR CLEAN AGENT SYSTEM PANEL CONNECTIONS AND REQUIREMENTS.

KEY NOTES

1. PROVIDE RACEWAYS AND CONDUCTORS TO ACTIVATE SHUNT-TRIP CIRCUIT BREAKERS SUPPLYING POWER TO ALL HVAC EQUIPMENT SUPPORTING MCR. REFERENCE BUILDING 001 ONE-LINE DIAGRAMS ON SHEET 01EP609-2B FOR ADDITIONAL INFORMATION.
2. PROVIDE RACEWAYS AND CONDUCTORS TO DEACTIVATE MCR UPSs. REFERENCE ONE-LINE DIAGRAMS ON SHEETS 001EP604 AND 001EP605 FOR ADDITIONAL INFORMATION.
3. PROVIDE RACEWAYS AND CONDUCTORS TO ACTIVATE SHUNT-TRIP CIRCUIT BREAKERS SUPPLYING POWER TO ALL INFORMATION TECHNOLOGY EQUIPMENT (ITE) SUPPORTING MCR, INCLUDING BUT NOT LIMITED TO, MCR UPSs. REFERENCE ONE-LINE DIAGRAMS ON SHEETS 001EP604 AND 001EP605 FOR ADDITIONAL INFORMATION.
4. EXISTING FIRE ALARM CONTROL PANEL SHALL BE MODIFIED TO INTEGRATE NEW FIELD DEVICES AS REQUIRED.
5. FIRE SMOKE DAMPER IS REQUIRED TO BE SHUT BY THE DETECTION OF SMOKE AS WELL AS BY THE DISCONNECTING MEANS REQUIRED BY NFPA 75 SECTION 11.4.5.

CLEAN AGENT FIRE SUPPRESSION SYSTEM (CAFSS) OPERATION MATRIX

		OUTPUTS																		
		ALARM LED (PANEL)	SUPERVISORY LED (PANEL)	TROUBLE LED (PANEL)	ACTIVATED LED (DETECTION DEVICE)	ALARM SIGNAL (MAIN FACP)	SUPERVISORY SIGNAL (MAIN FACP)	TROUBLE SIGNAL (MAIN FACP)	ITE SHUTDOWN	HVAC SHUTDOWN	FIRE/SMOKE DAMPER CLOSE	PRE-DISCHARGE BELL	PRE-DISCHARGE STROBE	INITIATE 20 SECOND DELAY	INITIATE 30 SECOND DELAY	CEASE DELAY	RESUME DELAY	DISCHARGE STROBES	CLEAN AGENT DISCHARGE	SYSTEM RESET	NOTES:
INPUTS	LOW PRESSURE SENSOR		X				X														
	AREA SMOKE DETECTOR (1ST TO DETECT SMOKE)	X			X	X					X										
	AREA SMOKE DETECTOR (2ND TO DETECT SMOKE)				X				X	X	X	X	X		X			X	X		(1)
	DUCT SMOKE DETECTOR IN CRACS		X								X										
	MANUAL ACTIVATION STATION	X				X			X	X	X	X	X	X				X	X		(2)
	UPS EPO PUSHBUTTON			X				X	X												
	HVAC EPO PUSHBUTTON			X				X		X											
	ABORT (DELAY) SWITCH ACTIVATED															X					(3)
	ABORT (DELAY) SWITCH RELEASED																X	X	X		
	MAINTENANCE LOCK-OUT SWITCH		X				X														
	CLEAN AGENT PANEL - FAULT CONDITION			X				X													
	CLEAN AGENT PANEL - BYPASS FUNCTION			X				X													
	VALVE ACTUATOR TAMPER SWITCH			X				X													
	ALARM TRANSMISSION BYPASS SWITCH (CAFSS PNL)			X				DISABLED													
	ALARM OFF SWITCH (CAFSS PNL)			X		X															(5)
	TROUBLE SILENCE SWITCH (CAFSS PNL)			DISABLED																	(6)
	RESET SWITCH (CAFS PANEL)																			X	
	LAMP TEST SWITCH (CAFSS PNL)																				(7)
	AHU BYPASS SWITCH (CAFSS PNL)			X						DISABLED											
	RESET2 SWITCH (CAFSS PNL)																			X	(8)

NOTES:
(1) DISCHARGE STROBE ACTIVED AND CLEAN AGENT DISCHARGE OCCURS AFTER 30 SECOND COUNTDOWN
(2) DISCHARGE STROBE ACTIVED AND CLEAN AGENT DISCHARGE OCCURS AFTER 20 SECOND COUNTDOWN
(3) COUNTDOWN THAT WAS INITIATED RESUMES WITHOUT RESETTING, FINISHES, AND DISCHARGE STROBE ACTIVATED WITH RELEASE OF CLEAN AGENT
(4) FAULT CONDITIONS INCLUDE BATTERY/CHARGER FAULT, OPEN/SHORT/GROUND FAULT IN INITIATING, SIGNAL, AND NOTIFICATION DEVICE WIRING
(5) NOTIFICATION APPLIANCE CIRCUIT DISABLED
(6) SILENCE OF TROUBLE ALARM WITHOUT RESET OF TROUBLE ALARM
(7) LAMP TEST ACTIVATES PANEL LAMPS WHILE PRESSED
(8) CAFSS PANEL MUST BE RESET BEFORE MAIN FACP
(9) MATRIX PROVIDED FOR INFORMATIONAL PURPOSES ONLY. ALL SYSTEM FUNCTIONAL REQUIREMENTS SHALL ADHERE TO SPECIFICATION SECTION 21 22 00.

Revisions:	Date:

CONSULTANT/ DISCIPLINE
DISCIPLINE:
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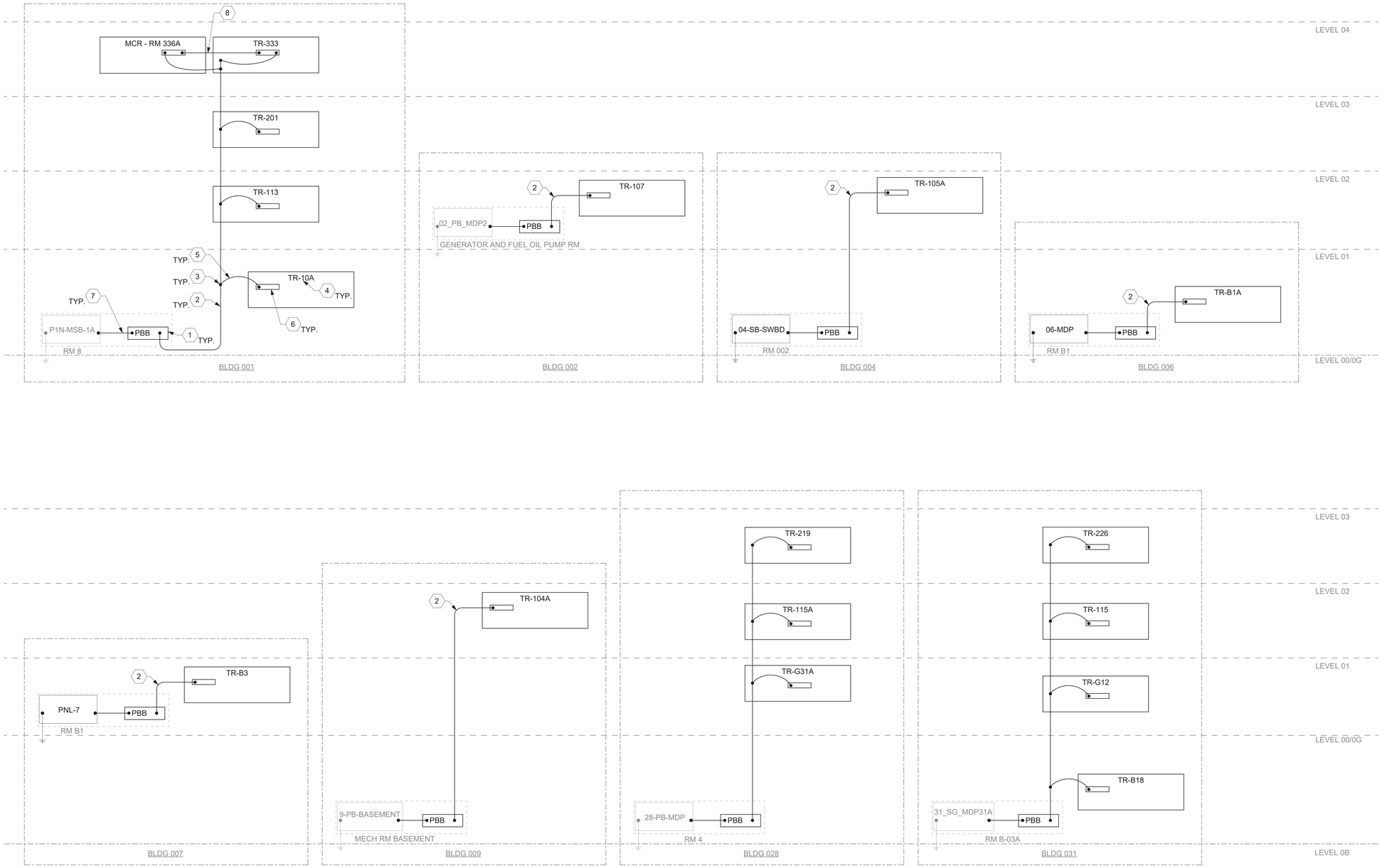
Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: FIRE ALARM RISER DIAGRAM	Phase: 100% CONSTRUCTION DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER	Project Number: 405-22-700
			Building Number: -
Approved:	FULLY SPRINKLERED	Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009	Drawing Number: EF601
		Issue Date: 01/16/2026 / Checked: NVP/DCW / Drawn: RTS/KDB	



1 TELECOMMUNICATIONS BONDING RISER DIAGRAM

NTS

GENERAL NOTES

1. ALL BONDING CONDUCTORS, INCLUDING TBB, SHALL FOLLOW SIZING REQUIREMENTS SPECIFIED IN ANSI/TIA-607-E.
2. CONTRACTOR SHALL PROVIDE ALL REQUIRED BONDING, CONDUCTORS, AND PATHWAYS AS REQUIRED FOR THE TELECOMMUNICATIONS SYSTEM BONDING. ALL EXISTING TELECOMMUNICATIONS BONDING FOR EQUIPMENT BEING REMOVED SHALL BE DEMOLISHED. PROVIDE ALL PATCHING, REPAIR AND FIREPROOFING FOR REMOVAL OF ALL EXISTING EQUIPMENT AND CONDUCTORS AND NEW INSTALLATIONS AS REQUIRED.
3. ALL BONDING CONDUCTORS SHALL HAVE GREEN INSULATION AND SHALL BE ROUTED THROUGH CONDUIT FOR PROTECTION.
4. ALL BONDING CONDUCTORS SHALL HAVE LABELS AT EACH END (TERMINATION POINT); LABEL SHALL READ AS FOLLOWS: "IF CONNECTION OR CONDUCTOR IS LOOSE OR MUST BE REMOVED, NOTIFY OPERATIONS STAFF".

KEY NOTES

1. PROVIDE PRIMARY BONDING BUSBAR (PBB). WHERE EXISTING PBB EXISTS, CONTRACTOR SHALL REPLACE; CONTRACTOR TO FIELD VERIFY EXISTING LOCATION. PROVIDE ALL BONDING CONNECTIONS AS REQUIRED.
2. PROVIDE TELECOMMUNICATIONS BONDING BACKBONE (TBB) CONDUCTOR AS INDICATED. CONTRACTOR SHALL ROUTE AND PROVIDE ALL REQUIRED PATHWAYS FOR TBB AS REQUIRED. EXISTING TBB SHALL BE DEMOLISHED AND REMOVED; PROVIDE ALL PATCHING, REPAIR AND FIREPROOF SEALING AS REQUIRED.
3. PROVIDE IRREVERSIBLE CRIMP CONNECTOR, UL LISTED.
4. TELECOMMUNICATIONS ROOM. REFER TO ENLARGED FLOOR PLANS FOR ADDITIONAL INFORMATION.
5. PROVIDE SECONDARY BONDING CONDUCTOR (SBC) TO CONNECT THE SBB TO TBB. MINIMUM SIZE SHALL BE 6 AWG.
6. PROVIDE SECONDARY BONDING BUSBAR (SBB). PROVIDE TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR TO BOND SBB TO THE FOLLOWING EQUIPMENT: DATA RACK, CABLE TRAY, TR CONDUITS, ELECTRO-STATIC FLOORING, ELECTRICAL PANEL, ETC. REFERENCE SHEET EP504 FOR ADDITIONAL BONDING INFORMATION.
7. PROVIDE TELECOMMUNICATIONS BONDING CONDUCTOR (TBC) TO BOND TO BUILDING ELECTRICAL SERVICE EQUIPMENT GROUNDING BUSBAR. MINIMUM CONDUCTOR SIZE SHALL MATCH LARGEST TBB.
8. PROVIDE BACKBONE BONDING CONDUCTOR (BBC) TO BOND SBBs WHEN MULTIPLE TRs ARE PRESENT ON FLOOR, MINIMUM CONDUCTOR SIZE SHALL BE EQUAL TO TBB.

TBB/BBC SIZING SCHEDULE (ANSI/TIA-607-E)	
TBB/BBC LINEAR LENGTH IN FEET	**CONDUCTOR SIZE IN AWG**
LESS THAN 13	6
14 - 20	4
21 - 26	3
27 - 33	2
34 - 41	1
42 - 52	1/0
53 - 66	2/0
67 - 84	3/0
85 - 105	4/0
106 - 125	250 kcmil
126 - 150	300 kcmil
151 - 175	350 kcmil
176 - 250	500 kcmil
251 - 300	600 kcmil
GREATER THAN 301	750 kcmil

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

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LOUIS R. LITZKE — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS BONDING RISER DIAGRAM

Phase: 100% CONSTRUCTION DOCUMENTS

Approved:

FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER

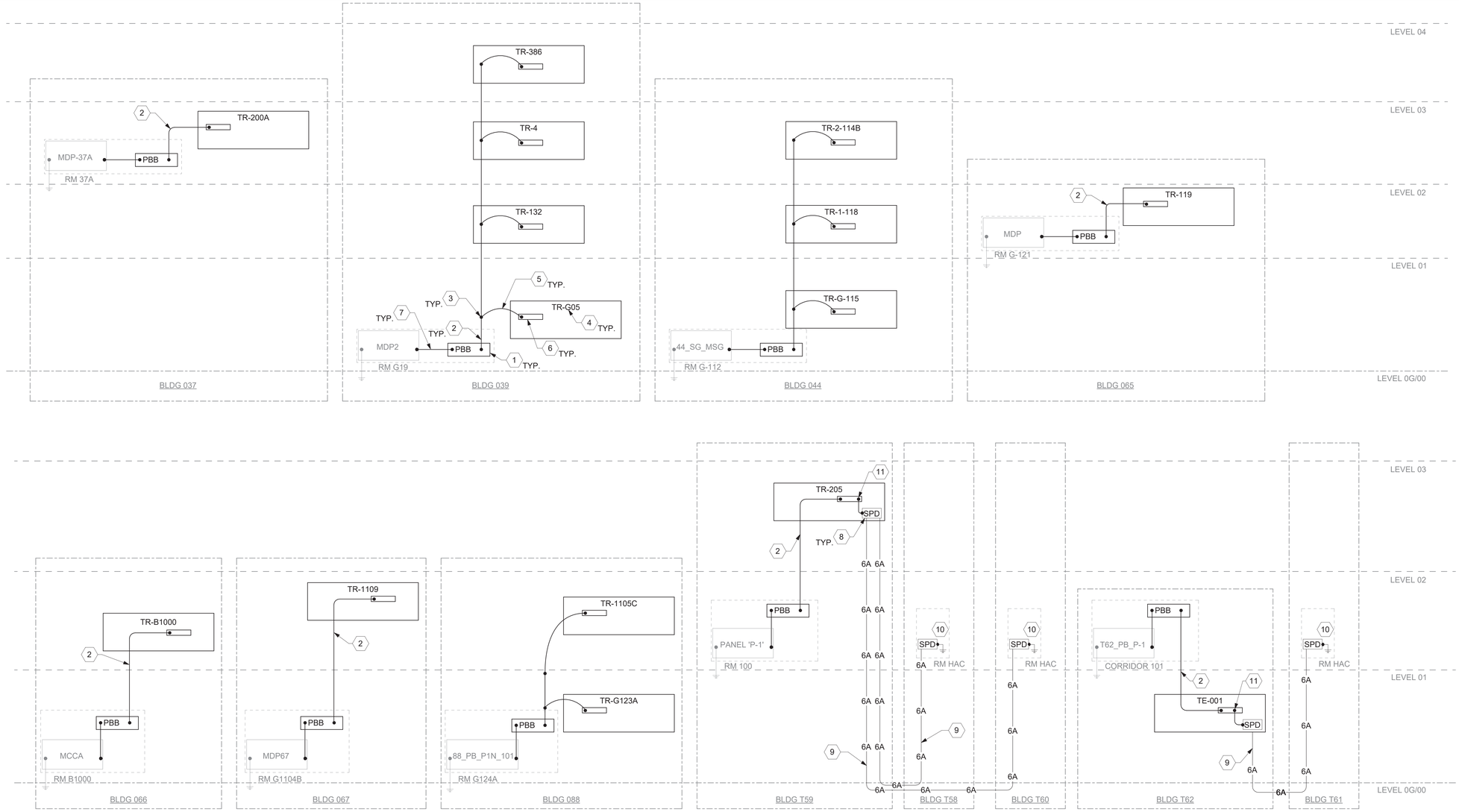
Project Number: 405-22-700

Building Number: -

Location: VA VT WHITE RIVER JUNCTION
163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009

Drawing Number: EG601

Issue Date	Checked	Drawn
01/16/2026	NVP/DCW	RTS/KDB



1 - TELECOMMUNICATIONS BONDING RISER DIAGRAM

NTS

GENERAL NOTES

1. ALL BONDING CONDUCTORS, INCLUDING TBB, SHALL FOLLOW SIZING REQUIREMENTS SPECIFIED IN ANSI/TIA-607-E.
2. CONTRACTOR SHALL PROVIDE ALL REQUIRED BONDING, CONDUCTORS, AND PATHWAYS AS REQUIRED FOR THE TELECOMMUNICATIONS SYSTEM BONDING. ALL EXISTING TELECOMMUNICATIONS BONDING FOR EQUIPMENT BEING REMOVED SHALL BE DEMOLISHED. PROVIDE ALL PATCHING, REPAIR AND FIREPROOFING FOR REMOVAL OF ALL EXISTING EQUIPMENT AND CONDUCTORS AND NEW INSTALLATIONS AS REQUIRED.
3. ALL BONDING CONDUCTORS SHALL HAVE GREEN INSULATION AND SHALL BE ROUTED THROUGH CONDUIT FOR PROTECTION.
4. ALL BONDING CONDUCTORS SHALL HAVE LABELS AT EACH END (TERMINATION POINT); LABEL SHALL READ AS FOLLOWS: "IF CONNECTION OR CONDUCTOR IS LOOSE OR MUST BE REMOVED, NOTIFY OPERATIONS STAFF".

KEY NOTES

1. PROVIDE PRIMARY BONDING BUSBAR (PBB). WHERE EXISTING PBB EXISTS, CONTRACTOR SHALL REPLACE; CONTRACTOR TO FIELD VERIFY EXISTING LOCATION. PROVIDE ALL BONDING CONNECTIONS AS REQUIRED.
2. PROVIDE TELECOMMUNICATIONS BONDING BACKBONE (TBB) CONDUCTOR AS INDICATED. CONTRACTOR SHALL ROUTE AND PROVIDE ALL REQUIRED PATHWAYS FOR TBB AS REQUIRED. EXISTING TBB SHALL BE DEMOLISHED AND REMOVED; PROVIDE ALL PATCHING, REPAIR AND FIREPROOF SEALING AS REQUIRED.
3. PROVIDE IRREVERSIBLE CRIMP CONNECTOR, UL LISTED.
4. TELECOMMUNICATIONS ROOM. REFER TO ENLARGED FLOOR PLANS FOR ADDITIONAL INFORMATION.
5. PROVIDE SECONDARY BONDING CONDUCTOR (SBC) TO CONNECT THE SBB TO TBB. MINIMUM SIZE SHALL BE 6 AWG.
6. PROVIDE SECONDARY BONDING BUSBAR (SBB). PROVIDE TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR TO BOND SBB TO THE FOLLOWING EQUIPMENT: DATA RACK, CABLE TRAY, TR CONDUITS, ELECTRO-STATIC FLOORING, ELECTRICAL PANEL, ETC. REFERENCE SHEET EP504 FOR ADDITIONAL BONDING INFORMATION.
7. PROVIDE TELECOMMUNICATIONS BONDING CONDUCTOR (TBC) TO BOND TO BUILDING ELECTRICAL SERVICE EQUIPMENT GROUNDING BUSBAR. MINIMUM CONDUCTOR SIZE SHALL MATCH LARGEST TBB.
8. PROVIDE CAT6A SURGE PROTECTION DEVICE. REFERENCE TELECOMMUNICATION DRAWINGS FOR ADDITIONAL INFORMATION.
9. CAT6A CABLING. REFERENCE TELECOMMUNICATION DRAWINGS FOR ADDITIONAL INFORMATION.
10. PROVIDE 6 AWG BONDING CONDUCTOR FROM SPD TO NEAREST PANELBOARD GROUNDING SYSTEM.
11. PROVIDE 6AWG BONDING CONDUCTOR FROM SPD TO SBB.

LEGEND

COPPER BONDING CONDUCTOR

6A CAT6A CABLING

TBB/BBC SIZING SCHEDULE (ANSI/TIA-607-E)	
TBB/BBC LINEAR LENGTH IN FEET	**CONDUCTOR SIZE IN AWG**
LESS THAN 13	6
14 - 20	4
21 - 26	3
27 - 33	2
34 - 41	1
42 - 52	1/0
53 - 66	2/0
67 - 84	3/0
85 - 105	4/0
106 - 125	250 kcmil
126 - 150	300 kcmil
151 - 175	350 kcmil
176 - 250	500 kcmil
251 - 300	600 kcmil
GREATER THAN 301	750 kcmil

Revisions:	Date:

CONSULTANT/ DISCIPLINE

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS BONDING RISER DIAGRAM

Phase: 100% CONSTRUCTION DOCUMENTS

Approved:

FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER

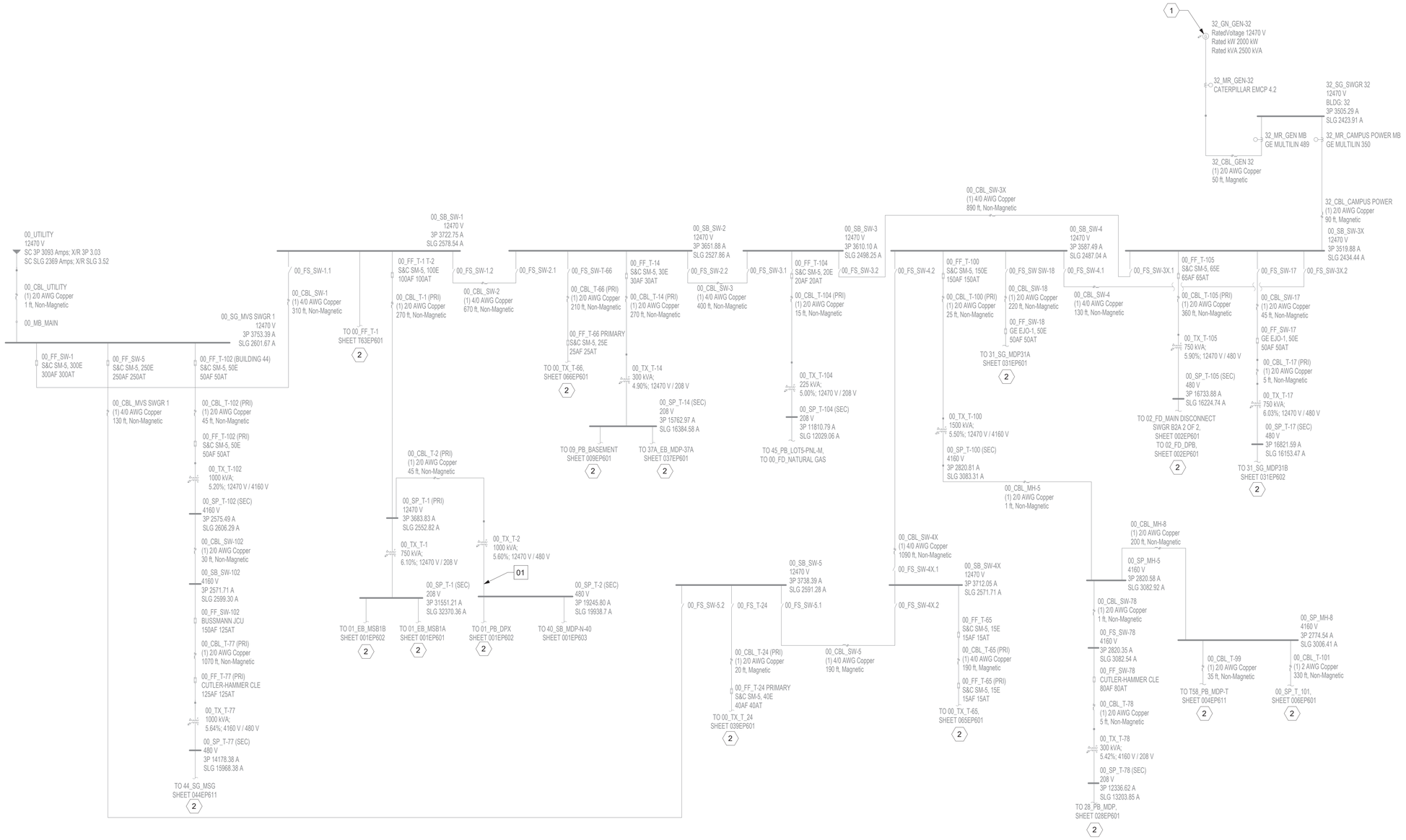
Project Number: 405-22-700

Building Number: -

Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009

Drawing Number: EG602

Issue Date	Checked	Drawn
01/16/2026	NVP/DCW	RTS/KDB



GENERAL NOTES

1. SHEET INCLUDED FOR BUILDING POWER SOURCING REFERENCE ONY.

KEY NOTES

1. ADDITIONAL LOAD HAS BEEN ADDED TO GENERATOR. REFERENCE ASSOCIATED GENERATOR CAPACITY AND LOAD INFORMATION SCHEDULE ON SHEETS EP701 FOR ADDITIONAL INFORMATION.
2. ADDITIONAL LOAD HAS BEEN ADDED TO FEEDER. REFERENCE CONTINUED ONE-LINE DIAGRAM AS INDICATED ON DRAWING AND ASSOCIATED PANEL SCHEDULE FOR ADDITIONAL LOADING INFORMATION.

LOAD DATA POINT NOTES

01 LOAD DATA POINT: EXISTING TRANSFORMER "00_TX_T-2". REFERENCE TRANSFORMER "00_TX_T-2" CALCULATED LOAD INFORMATION SCHEDULE ON SHEET 001EP701 FOR ADDITIONAL INFORMATION.

1 MEDIUM VOLTAGE - ONE-LINE DIAGRAM

NTS

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	MEDIUM VOLTAGE - ONE-LINE DIAGRAM
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Project Number	405-22-700
Building Number	001
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Drawing Number	000EP601
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB

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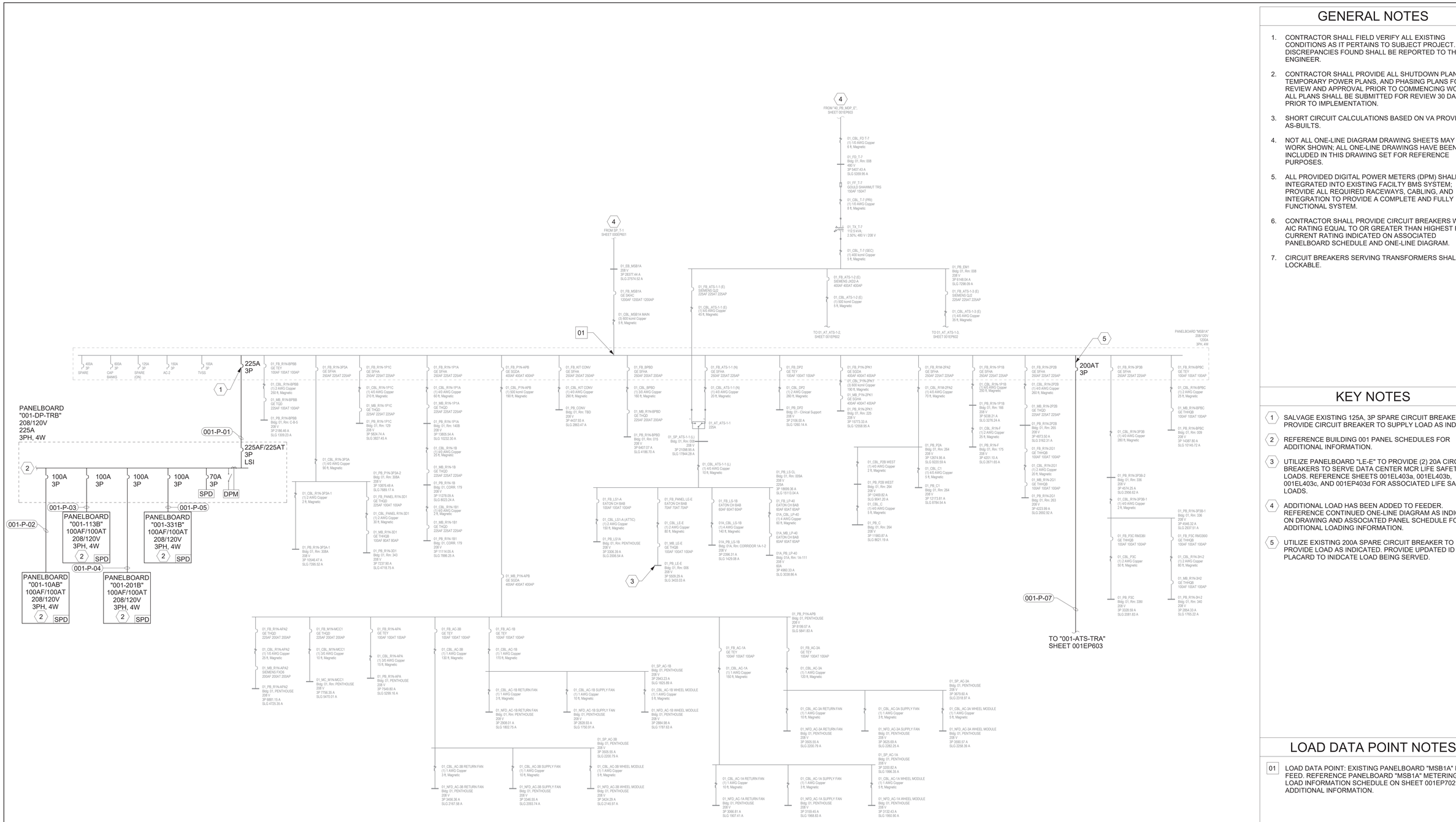

GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AS IT PERTAINS TO SUBJECT PROJECT. ANY DISCREPANCIES FOUND SHALL BE REPORTED TO THE ENGINEER.
2. CONTRACTOR SHALL PROVIDE ALL SHUTDOWN PLANS, TEMPORARY POWER PLANS, AND PHASING PLANS FOR VA REVIEW AND APPROVAL PRIOR TO COMMENCING WORK. ALL PLANS SHALL BE SUBMITTED FOR REVIEW 30 DAYS PRIOR TO IMPLEMENTATION.
3. SHORT CIRCUIT CALCULATIONS BASED ON VA PROVIDED AS-BUILTS.
4. NOT ALL ONE-LINE DIAGRAM DRAWING SHEETS MAY HAVE WORK SHOWN; ALL ONE-LINE DRAWINGS HAVE BEEN INCLUDED IN THIS DRAWING SET FOR REFERENCE PURPOSES.
5. ALL PROVIDED DIGITAL POWER METERS (DPM) SHALL BE INTEGRATED INTO EXISTING FACILTY BMS SYSTEM; PROVIDE ALL REQUIRED RACEWAYS, CABLING, AND INTEGRATION TO PROVIDE A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
6. CONTRACTOR SHALL PROVIDE CIRCUIT BREAKERS WITH AIC RATING EQUAL TO OR GREATER THAN HIGHEST FAULT CURRENT RATING INDICATED ON ASSOCIATED PANELBOARD SCHEDULE AND ONE-LINE DIAGRAM.
7. CIRCUIT BREAKERS SERVING TRANSFORMERS SHALL BE LOCKABLE.

KEY NOTES

1. SALVAGE EXISTING 125A, 3P SPARE CIRCUIT BREAKER. PROVIDE CIRCUIT BREAKER TO SUPPLY LOAD AS INDICATED.
2. REFERENCE BUILDING 001 PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
3. UTILIZE PANELBOARD "LE-E" TO PROVIDE (2) 20A CIRCUIT BREAKERS TO SERVE DATA CENTER MCR LIFE SAFETY LOADS. REFERENCE SHEETS 001EL403a, 001EL403b, 001EL403c, AND 001EP403d FOR ASSOCIATED LIFE SAFETY LOADS.
4. ADDITIONAL LOAD HAS BEEN ADDED TO FEEDER. REFERENCE CONTINUED ONE-LINE DIAGRAM AS INDICATED ON DRAWING AND ASSOCIATED PANEL SCHEDULE FOR ADDITIONAL LOADING INFORMATION.
5. UTILIZE EXISTING 200A SPARE CIRCUIT BREAKER TO PROVIDE LOAD AS INDICATED. PROVIDE UPDATED ID PLACARD TO INIDCATE LOAD BEING SERVED.

LOAD DATA POINT NOTES

01 LOAD DATA POINT: EXISTING PANELBOARD "MSB1A" MAIN FEED. REFERENCE PANELBOARD "MSB1A" METERING AND LOAD INFORMATION SCHEDULE ON SHEET 001EP702 FOR ADDITIONAL INFORMATION.

1 - BLDG 001 - ONE-LINE DIAGRAM - PART 1 OF 5

NTS

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

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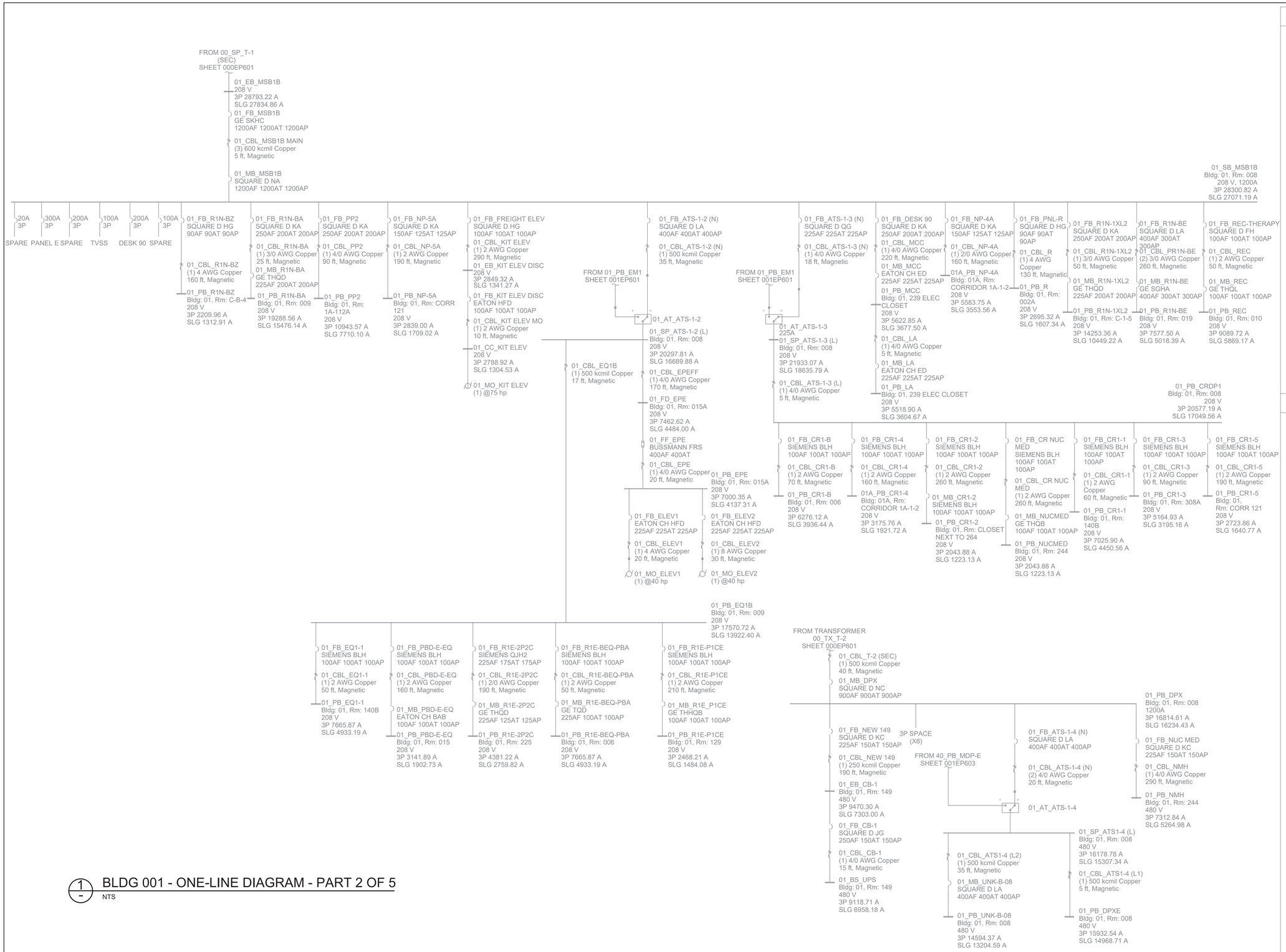
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	BLDG 001 - ONE-LINE DIAGRAM - PART 1 OF 5
Approved:	
Phase	100% CONSTRUCTION DOCUMENTS
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB
Project Number	405-22-700
Building Number	001
Drawing Number	001EP601



1 - BLDG 001 - ONE-LINE DIAGRAM - PART 2 OF 5

NTS

GENERAL NOTES

1. SHEET PROVIDED FOR REFERENCE ONLY. NO ELECTRICAL WORK REQUIRED.

KEY NOTES

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

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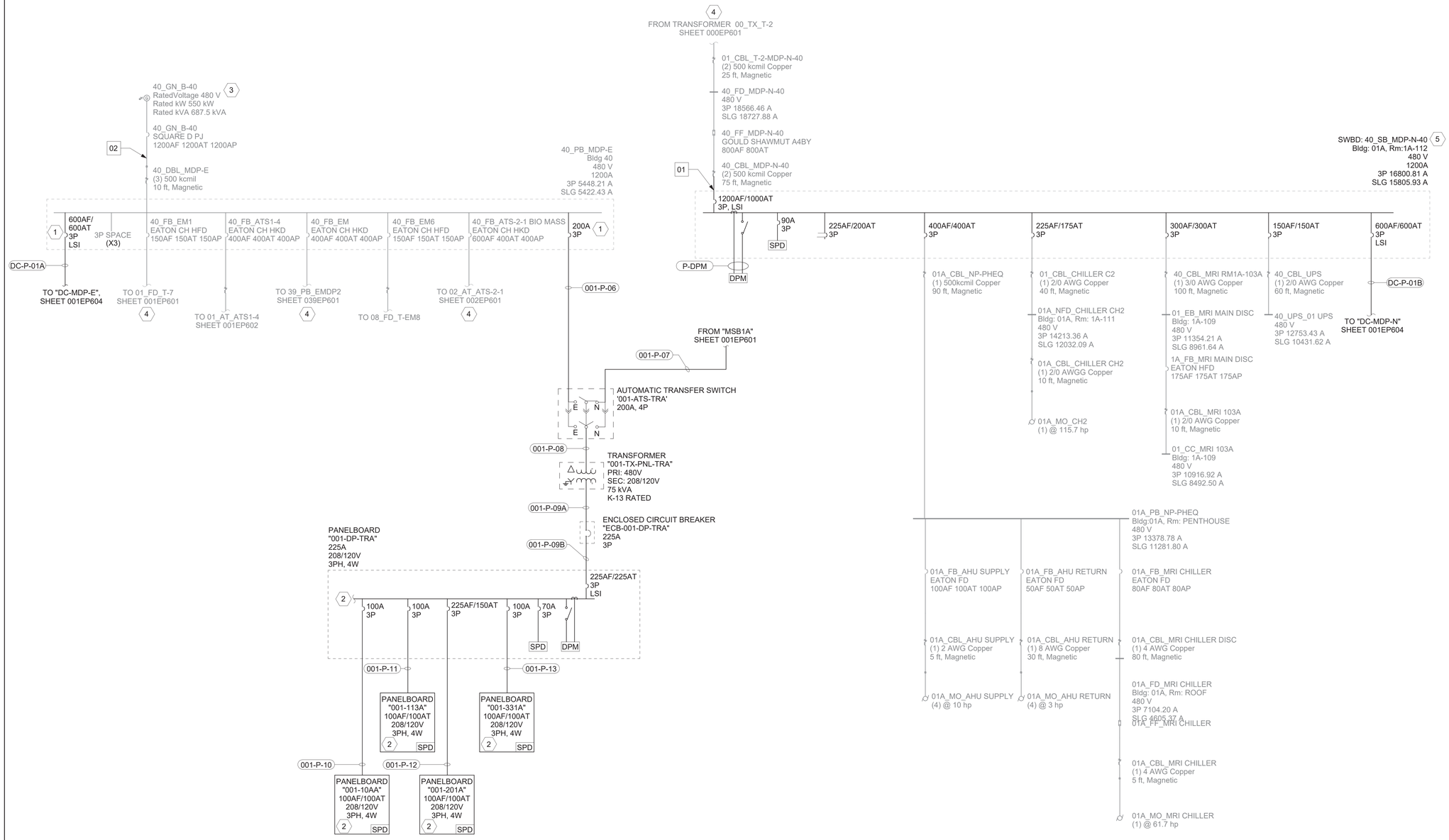
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	BLDG 001 - ONE-LINE DIAGRAM - PART 2 OF 5
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Project Number	405-22-700
Building Number	001
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Drawing Number	001EP602
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB



GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AS IT PERTAINS TO SUBJECT PROJECT. ANY DISCREPANCIES FOUND SHALL BE REPORTED TO THE ENGINEER.
2. CONTRACTOR SHALL PROVIDE ALL SHUTDOWN PLANS, TEMPORARY POWER PLANS, AND PHASING PLANS FOR VA REVIEW AND APPROVAL PRIOR TO COMMENCING WORK. ALL PLANS SHALL BE SUBMITTED FOR REVIEW 30 DAYS PRIOR TO IMPLEMENTATION.
3. SHORT CIRCUIT CALCULATIONS BASED ON VA PROVIDED AS-BUILTS.
4. NOT ALL ONE-LINE DIAGRAM DRAWING SHEETS MAY HAVE WORK SHOWN; ALL ONE-LINE DRAWINGS HAVE BEEN INCLUDED IN THIS DRAWING SET FOR REFERENCE PURPOSES.
5. ALL PROVIDED DIGITAL POWER METERS (DPM) SHALL BE INTEGRATED INTO EXISTING FACILTY BMS SYSTEM; PROVIDE ALL REQUIRED RACEWAYS, CABLING, AND INTEGRATION TO PROVIDE A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
6. CONTRACTOR SHALL PROVIDE CIRCUIT BREAKERS WITH AIC RATING EQUAL TO OR GREATER THAN HIGHEST FAULT CURRENT RATING INDICATED ON ASSOCIATED PANELBOARD SCHEDULE AND ONE-LINE DIAGRAM.
7. CIRCUIT BREAKERS SERVING TRANSFORMERS SHALL BE LOCKABLE.

KEY NOTES

1. UTILIZE EXISTING 3P SPACE TO PROVIDE CIRCUIT BREAKER TO SUPPLY LOAD AS INDICATED. EXISTING EQUIPMENT IS EATON POWER-LINE PLR4 PANELBOARD.
2. REFERENCE BUILDING 001 PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
3. REFERENCE ASSOCIATED GENERATOR CAPACITY AND LOAD INFORMATION SCHEDULE ON SHEET EP701 FOR ADDITIONAL INFORMATION.
4. ADDITIONAL LOAD HAS BEEN ADDED TO FEEDER. REFERENCE CONTINUED ONE-LINE DIAGRAM AS INDICATED ON DRAWING AND ASSOCIATED PANEL SCHEDULE FOR ADDITIONAL LOADING INFORMATION.
5. EXISTING EQUIPMENT SHALL BE DEMOLISHED AND REPLACED. PRESERVE FEEDER CIRCUITS FOR RETERMINATION. REFERENCE ASSOCIATED SWITCHBOARD SCHEDULE, SHEET 001EP101, AND DETAIL 5 ON SHEET EP501 FOR ADDITIONAL INFORMATION.

LOAD DATA POINT NOTES

01 LOAD DATA POINT: EXISTING SWITCHBOARD "40_SB_MDP-N-40" MAIN. REFERENCE SWITCHBOARD "40_SB_MDP-N-40" METERING AND LOAD INFORMATION SCHEDULE ON SHEET 001EP701 FOR ADDITIONAL INFORMATION.

02 LOAD DATA POINT: EXISTING PANELBOARD "40_PB_MDP-E" MAIN. REFERENCE PANELBOARD "40_PB_MDP-E" METERING AND LOAD INFORMATION SCHEDULE ON SHEET 001EP705 FOR ADDITIONAL INFORMATION.

1 - BLDG 001 - ONE-LINE DIAGRAM - PART 3 OF 5

NTS

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

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LOUIS R. LITZAU
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55681
1-16-26
REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

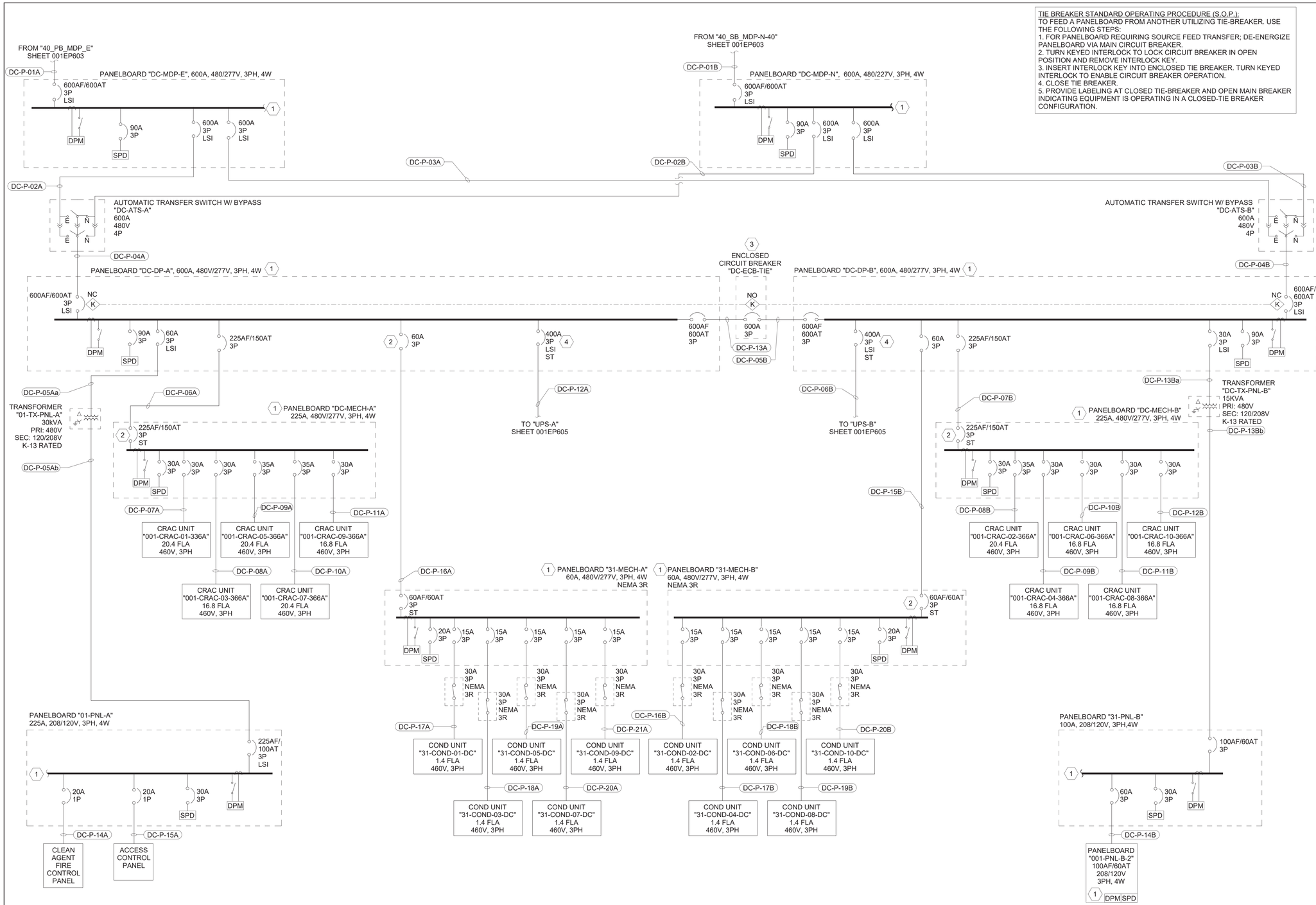
VA U.S. Department of Veterans Affairs

Drawing Title	BLDG 001 - ONE-LINE DIAGRAM - PART 3 OF 5
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Project Number	405-22-700
Building Number	001
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Drawing Number	001EP603
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB

VA FORM 08 - 6231

16/01/2026 3:55:51 am

Autodesk Docs://405-22-700 VA VT White River Junction EHRM IU/VAWR_GENERAL SHEETS_EL_SDB.rvt



TIE BREAKER STANDARD OPERATING PROCEDURE (S.O.P.):
TO FEED A PANELBOARD FROM ANOTHER UTILIZING TIE-BREAKER. USE THE FOLLOWING STEPS:
1. FOR PANELBOARD REQUIRING SOURCE FEED TRANSFER; DE-ENERGIZE PANELBOARD VIA MAIN CIRCUIT BREAKER.
2. TURN KEYED INTERLOCK TO LOCK CIRCUIT BREAKER IN OPEN POSITION AND REMOVE INTERLOCK KEY.
3. INSERT INTERLOCK KEY INTO ENCLOSED TIE BREAKER. TURN KEYED INTERLOCK TO ENABLE CIRCUIT BREAKER OPERATION.
4. CLOSE TIE BREAKER.
5. PROVIDE LABELING AT CLOSED TIE-BREAKER AND OPEN MAIN BREAKER INDICATING EQUIPMENT IS OPERATING IN A CLOSED-TIE BREAKER CONFIGURATION.

GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AS IT PERTAINS TO SUBJECT PROJECT. ANY DISCREPANCIES FOUND SHALL BE REPORTED TO THE ENGINEER.
2. CONTRACTOR SHALL PROVIDE ALL SHUTDOWN PLANS, TEMPORARY POWER PLANS, AND PHASING PLANS FOR VA REVIEW AND APPROVAL PRIOR TO COMMENCING WORK. ALL PLANS SHALL BE SUBMITTED FOR REVIEW 30 DAYS PRIOR TO IMPLEMENTATION.
3. SHORT CIRCUIT CALCULATIONS BASED ON VA PROVIDED AS-BUILTS.
4. NOT ALL ONE-LINE DIAGRAM DRAWING SHEETS MAY HAVE WORK SHOWN; ALL ONE-LINE DRAWINGS HAVE BEEN INCLUDED IN THIS DRAWING SET FOR REFERENCE PURPOSES.
5. ALL PROVIDED DIGITAL POWER METERS (DPM) SHALL BE INTEGRATED INTO EXISTING FACILTY BMS SYSTEM; PROVIDE ALL REQUIRED RACEWAYS, CABLING, AND INTEGRATION TO PROVIDE A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
6. CONTRACTOR SHALL PROVIDE CIRCUIT BREAKERS WITH AIC RATING EQUAL TO OR GREATER THAN HIGHEST FAULT CURRENT RATING INDICATED ON ASSOCIATED PANELBOARD SCHEDULE AND ONE-LINE DIAGRAM.
7. CIRCUIT BREAKERS SERVING TRANSFORMERS SHALL BE LOCKABLE.

KEY NOTES

1. REFERENCE BUILDING 001 PANEL SCHEDULE FOR ADDITIONAL INFORMATION.
2. HVAC EQUIPMENT FEEDER BREAKERS SERVING DATA CENTER SHALL BE SHUNT TRIPPED UPON HVAC SHUTDOWN SWITCH ACTIVATION (HVAC SHUTDOWN SWITCHES ARE LOCATED IN MCR ROOM). REFERENCE SHEETS 001EF403a, 001EF403b, AND EF601 FOR ADDITIONAL INFORMATION.
3. PROVIDE ENCLOSED CIRCUIT BREAKER "DC-ECB-TIE" BETWEEN PANELBOARD "DC-DP-A" AND PANELBOARD "DC-DP-B". CIRCUIT BREAKER SHALL ONLY BE ENERGIZED AFTER MAIN CIRCUIT BREAKER OF EITHER "DC-DP-A" OR "DC-DP-B" HAS BEEN DE-ENERGIZED. PROVIDE MECHANICAL KEYED INTERLOCKS AS NEEDED.
4. MCR POWER EQUIPMENT FEEDER BREAKERS SERVING DATA CENTER SHALL BE SHUNT TRIPPED UPON EPO SHUTDOWN SWITCH ACTIVATION (EPO SWITCHES ARE LOCATED IN MCR ROOM). REFERENCE SHEETS 001EP403, 031EP400Ba, AND EF601 FOR ADDITIONAL INFORMATION. PROVIDE CONDUIT AND WIRE AS REQUIRED.

1 - BLDG 001 - ONE-LINE DIAGRAM - PART 4 OF 5 - DATA CENTER

NTS

Revisions:	Date:

CONSULTANT/ DISCIPLINE

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LOUIS R. LITZKO — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	BLDG 001 - ONE-LINE DIAGRAM - PART 4 OF 5 - DATA CENTER
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB
Project Number	405-22-700
Building Number	001
Drawing Number	001EP604

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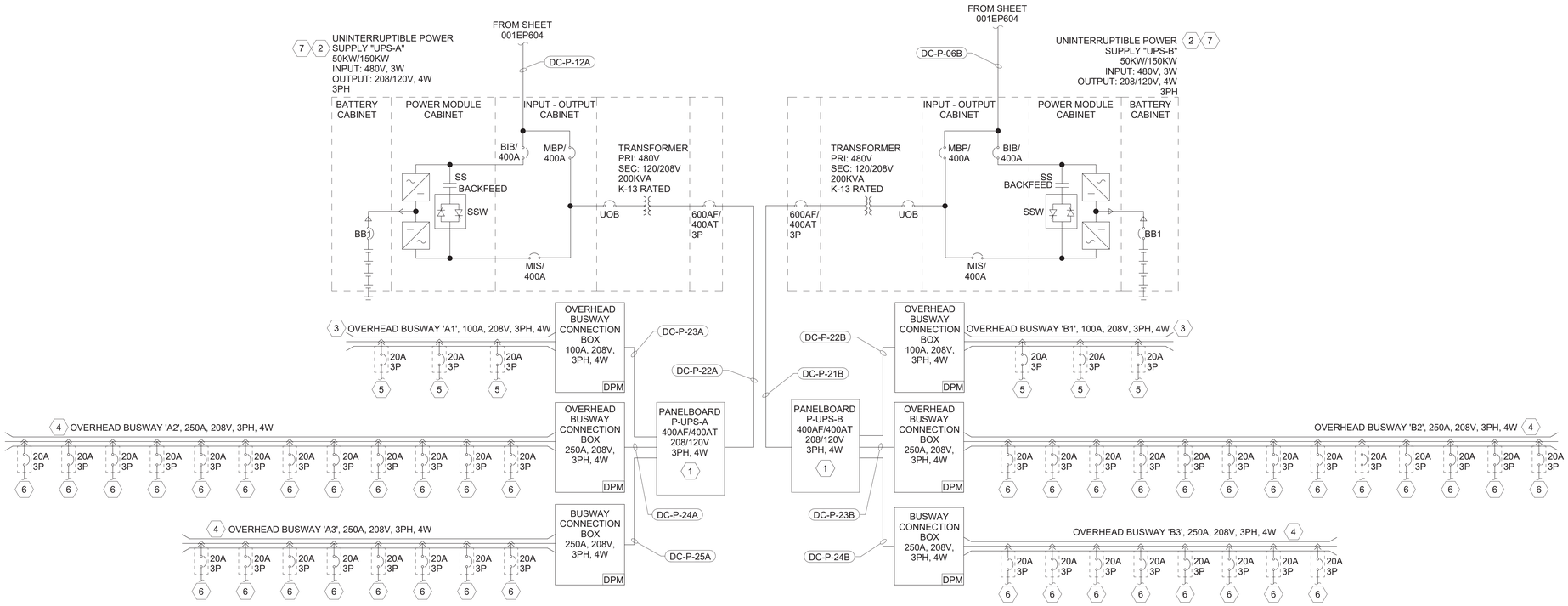
Autodesk Docs://405-22-700 VA VT White River Junction EHRM IU/VAWR_GENERAL SHEETS_EL_SDB.rvt



1 - BLDG 001 - ONE-LINE DIAGRAM - PART 5 OF 5 - DATA CENTER

NTS

GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AS IT PERTAINS TO SUBJECT PROJECT. ANY DISCREPANCIES FOUND SHALL BE REPORTED TO THE ENGINEER.
2. CONTRACTOR SHALL PROVIDE ALL SHUTDOWN PLANS, TEMPORARY POWER PLANS, AND PHASING PLANS FOR VA REVIEW AND APPROVAL PRIOR TO COMMENCING WORK. ALL PLANS SHALL BE SUBMITTED FOR REVIEW 30 DAYS PRIOR TO IMPLEMENTATION.
3. SHORT CIRCUIT CALCULATIONS BASED ON VA PROVIDED AS-BUILTS.
4. NOT ALL ONE-LINE DIAGRAM DRAWING SHEETS MAY HAVE WORK SHOWN; ALL ONE-LINE DRAWINGS HAVE BEEN INCLUDED IN THIS DRAWING SET FOR REFERENCE PURPOSES.
5. ALL PROVIDED DIGITAL POWER METERS (DPM) SHALL BE INTEGRATED INTO EXISTING FACILTY BMS SYSTEM; PROVIDE ALL REQUIRED RACEWAYS, CABLING, AND INTEGRATION TO PROVIDE A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
6. CONTRACTOR SHALL PROVIDE CIRCUIT BREAKERS WITH AIC RATING EQUAL TO OR GREATER THAN HIGHEST FAULT CURRENT RATING INDICATED ON ASSOCIATED PANELBOARD SCHEDULE AND ONE-LINE DIAGRAM.
7. CIRCUIT BREAKERS SERVING TRANSFORMERS SHALL BE LOCKABLE.

KEY NOTES

1. REFERENCE BUILDING 001 PANEL SCHEDULE FOR ADDITIONAL INFORMATION.
2. UNIT SHALL BE RATED FOR 50KW AND HAVE THE ABILITY TO BE EXPANDED TO 150KW. UNIT SHALL BE PROVIDED WITH AN INPUT-OUTPUT CABINET MAINTENANCE BYPASS SIDECAR, POWER MODULE SECTION, BATTERY CABINET SECTION, AND INTEGRAL POWER DISTRIBUTION SECTION INCLUDING OUTPUT TRANSFORMER AS INDICATED. UNIT MINIMUM RUNTIME SHALL BE 10 MINUTES. UNIT SHALL BE PROVIDED WITH EMERGENCY SHUTDOWN CAPABILITY; IT SHALL BE ABLE TO RECEIVE INPUT FROM REMOTE PUSHBUTTONS AND SIGNAL FROM FIRE ALARM SYSTEM TO DEACTIVATE POWER INPUT AND OUTPUT. REFERENCE "DATA CENTER UPS LOAD SCHEDULE" ON SHEET 001EP704 FOR ADDITIONAL INFORMATION.
3. MDA ROW OVERHEAD BUSWAY, 100A, 208V, 3PH.
4. SERVER CABINET ROW OVERHEAD BUSWAY, 250A, 208V, 3PH.
5. CONTINUE TO MDA CABINET VIA PLUG/CORD SET AND CABINET RECEPTACLE. REFERENCE ELECTRICAL DETAILS FOR ADDITIONAL INFORMATION.
6. CONTINUE TO HDA OR SERVER CABINET VIA PLUG/CORD SET AND CABINET RECEPTACLE. REFERENCE ELECTRICAL DETAILS FOR ADDITIONAL INFORMATION.
7. UPS SHALL BE SHUNT TRIPPED UPON EPO SHUTDOWN SWITCH ACTIVATION (EPO SWITCHES ARE LOCATED IN UPS ROOM AND MCR). WHEN PRESSED, EPO SHALL DE-ENERGIZE EACH UPS; PROVIDE ALL CONNECTIONS, EQUIPMENT, RACEWAYS, AND CONDUCTORS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. REFERENCE SHEETS 031EP400Ba, 001EF403a, 001EF403b AND EF601 FOR ADDITIONAL INFORMATION.

LOAD DATA POINT NOTES

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

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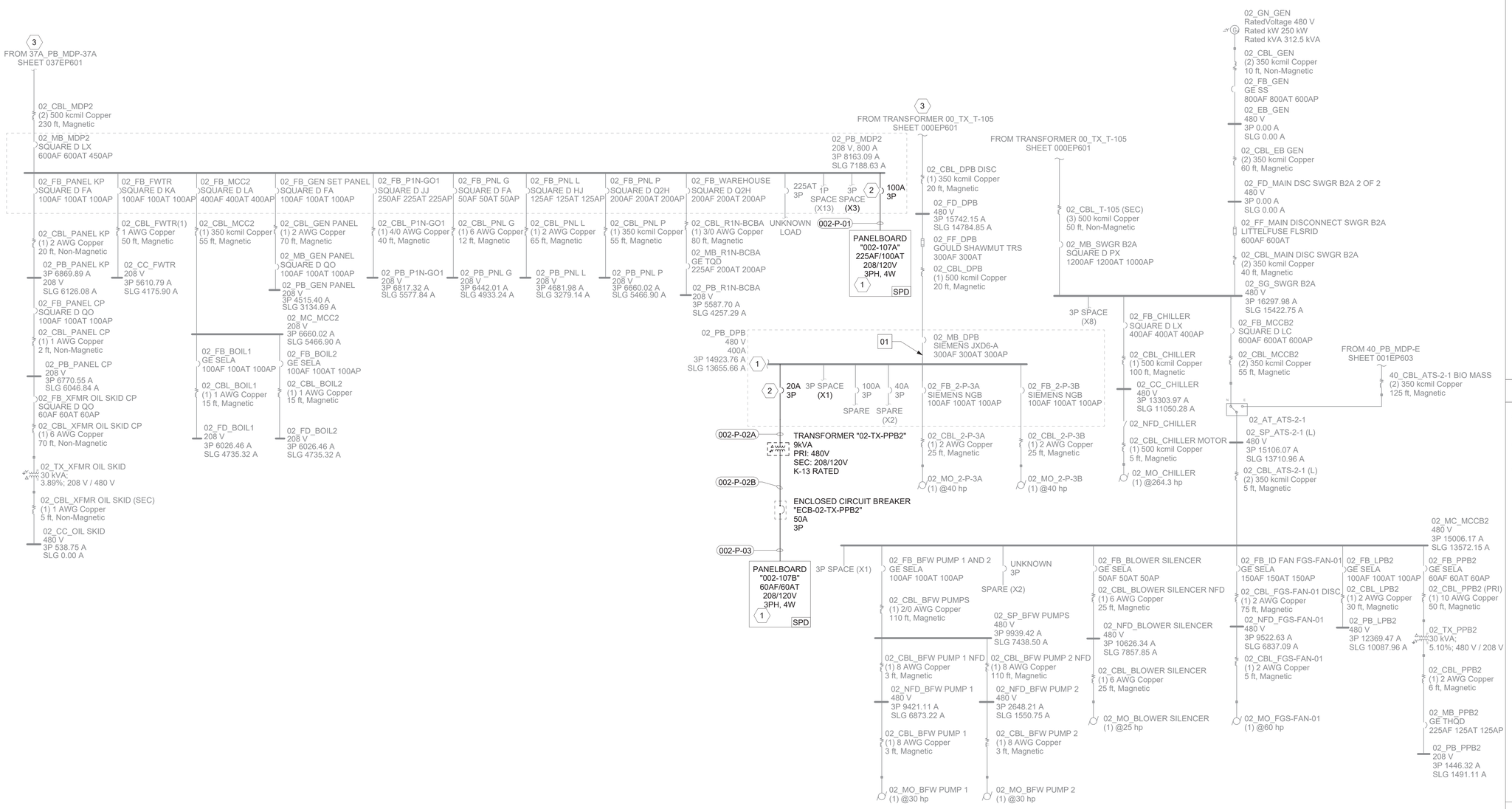
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	BLDG 001 - ONE-LINE DIAGRAM - PART 5 OF 5 - DATA CENTER
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Project Number	405-22-700
Building Number	001
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Drawing Number	001EP605
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB



1 BLDG 002 - ONE-LINE DIAGRAM
NTS

GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AS IT PERTAINS TO SUBJECT PROJECT. ANY DISCREPANCIES FOUND SHALL BE REPORTED TO THE ENGINEER.
2. CONTRACTOR SHALL PROVIDE ALL SHUTDOWN PLANS, TEMPORARY POWER PLANS, AND PHASING PLANS FOR VA REVIEW AND APPROVAL PRIOR TO COMMENCING WORK. ALL PLANS SHALL BE SUBMITTED FOR REVIEW 30 DAYS PRIOR TO IMPLEMENTATION.
3. SHORT CIRCUIT CALCULATIONS BASED ON VA PROVIDED AS-BUILTS.
4. NOT ALL ONE-LINE DIAGRAM DRAWING SHEETS MAY HAVE WORK SHOWN; ALL ONE-LINE DRAWINGS HAVE BEEN INCLUDED IN THIS DRAWING SET FOR REFERENCE PURPOSES.
5. ALL PROVIDED DIGITAL POWER METERS (DPM) SHALL BE INTEGRATED INTO EXISTING FACILTY BMS SYSTEM; PROVIDE ALL REQUIRED RACEWAYS, CABLING, AND INTEGRATION TO PROVIDE A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
6. CONTRACTOR SHALL PROVIDE CIRCUIT BREAKERS WITH AIC RATING EQUAL TO OR GREATER THAN HIGHEST FAULT CURRENT RATING INDICATED ON ASSOCIATED PANELBOARD SCHEDULE AND ONE-LINE DIAGRAM.
7. CIRCUIT BREAKERS SERVING TRANSFORMERS SHALL BE LOCKABLE.

KEY NOTES

1. REFERENCE BUILDING 002 PANEL SCHEDULES ON 002EP701 FOR ADDITIONAL INFORMATION.
2. UTILIZE EXISTING 3P SPACE TO PROVIDE CIRCUIT BREAKER TO SERVE LOAD AS INDICATED.
3. ADDITIONAL LOAD HAS BEEN ADDED TO FEEDER. REFERENCE CONTINUED ONE-LINE DIAGRAM AS INDICATED ON DRAWING AND ASSOCIATED PANEL SCHEDULE FOR ADDITIONAL LOADING INFORMATION.

LOAD DATA POINT NOTES

01 LOAD DATA POINT: EXISTING SWITCHBOARD "02_PB_DPB" MAIN. REFERENCE SWITCHBOARD "02_PB_DPB" METERING AND LOAD INFORMATION SCHEDULE ON SHEET 002EP701 FOR ADDITIONAL INFORMATION.

Revisions:	Date:

CONSULTANT/ DISCIPLINE

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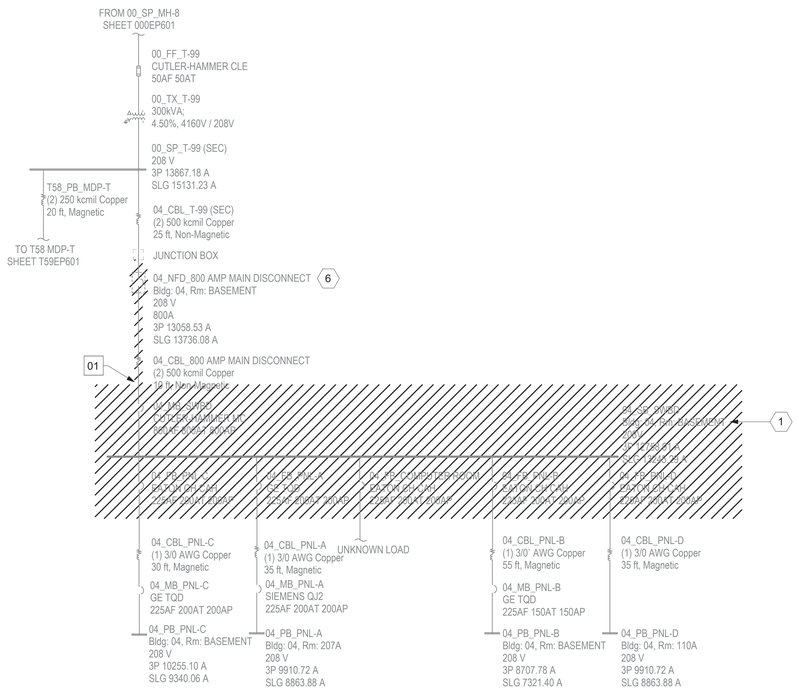
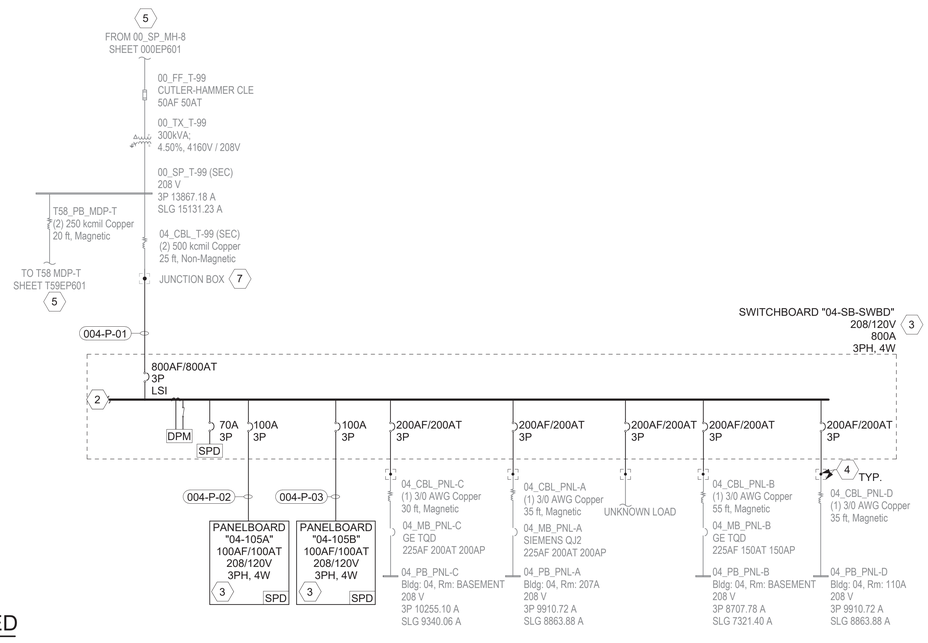
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	BLDG 002 - ONE-LINE DIAGRAM
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Project Number	405-22-700
Building Number	002
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Drawing Number	002EP601
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB



1 BLDG 004 - ONE-LINE DIAGRAM - EXISTING
NTS



2 BLDG 004 - ONE-LINE DIAGRAM - REVISED
NTS

GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AS IT PERTAINS TO SUBJECT PROJECT. ANY DISCREPANCIES FOUND SHALL BE REPORTED TO THE ENGINEER.
2. CONTRACTOR SHALL PROVIDE ALL SHUTDOWN PLANS, TEMPORARY POWER PLANS, AND PHASING PLANS FOR VA REVIEW AND APPROVAL PRIOR TO COMMENCING WORK. ALL PLANS SHALL BE SUBMITTED FOR REVIEW 30 DAYS PRIOR TO IMPLEMENTATION.
3. SHORT CIRCUIT CALCULATIONS BASED ON VA PROVIDED AS-BUILTS.
4. NOT ALL ONE-LINE DIAGRAM DRAWING SHEETS MAY HAVE WORK SHOWN; ALL ONE-LINE DRAWINGS HAVE BEEN INCLUDED IN THIS DRAWING SET FOR REFERENCE PURPOSES.
5. ALL PROVIDED DIGITAL POWER METERS (DPM) SHALL BE INTEGRATED INTO EXISTING FACILTY BMS SYSTEM; PROVIDE ALL REQUIRED RACEWAYS, CABLING, AND INTEGRATION TO PROVIDE A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
6. CONTRACTOR SHALL PROVIDE CIRCUIT BREAKERS WITH AIC RATING EQUAL TO OR GREATER THAN HIGHEST FAULT CURRENT RATING INDICATED ON ASSOCIATED PANELBOARD SCHEDULE AND ONE-LINE DIAGRAM.
7. CIRCUIT BREAKERS SERVING TRANSFORMERS SHALL BE LOCKABLE.

KEY NOTES

1. EXISTING PANELBOARD SHALL BE DEMOLISHED AND REPLACED; ALL EXISTING BRANCH CIRCUITS SHALL BE PRESERVED AND PROTECTED FOR RE-TERMINATION. REFERENCE REVISED ONE-LINE DIAGRAMS AND BUILDING 004 PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
2. REFERENCE BUILDING 004 PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
3. PROVIDE REPLACEMENT SWITCHBOARD "04-SB-SWBD " AS INDICATED. PROVIDE CONDUIT AND WIRE TO RE-TERMINATE EXISTING SWITCHBOARD AS INDICATED. SIZE JUNCTION BOX PER NEC. CONTRACTOR SHALL FIELD COORDINATE JUNCTION BOX INSTALLATION LOCATION AS REQUIRED. REFERENCE PANEL SCHEDULES ON SHEET 004EP701 FOR ADDITIONAL INFORMATION.
4. PROVIDE JUNCTION BOX AND INSULATED TAPS TO EXTEND EXISTING CONDUIT AND WIRE TO REPLACEMENT SWITCHBOARD AS INDICATED. SIZE JUNCTION BOX PER NEC. CONTRACTOR SHALL FIELD COORDINATE JUNCTION BOX INSTALLATION LOCATION AS REQUIRED.
5. ADDITIONAL LOAD HAS BEEN ADDED TO FEEDER. REFERENCE CONTINUED ONE-LINE DIAGRAM AS INDICATED ON DRAWING AND ASSOCIATED PANEL SCHEDULE FOR ADDITIONAL LOADING INFORMATION.
6. EQUIPMENT SHALL BE DEMOLISHED. PRESERVE INDICATED FEEDS FOR RETERMINATION. REFERENCE REVISED ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
7. MODIFY EXISTING JUNCTION BOX AND PROVIDE INSULATED TAPS TO EXTEND CONDUIT AND WIRE TO REPLACEMENT SWITCHBOARD AS INDICATED. MODFIY SIZE OF JUNCTION BOX AS REQUIRED PER NEC.

LOAD DATA POINT NOTES

01 LOAD DATA POINT: EXISTING SWITCHBOARD "04 _SB_SWBD" MAIN. REFERENCE SWITCHBOARD "04 _SB_SWBD" METERING AND LOAD INFORMATION SCHEDULE ON SHEET 004EP701 FOR ADDITIONAL INFORMATION.

Revisions:	Date:

CONSULTANT/ DISCIPLINE

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VA U.S. Department of Veterans Affairs

Drawing Title	BLDG 004 - ONE-LINE DIAGRAMS
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Project Number	405-22-700
Building Number	004
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Drawing Number	004EP611
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB

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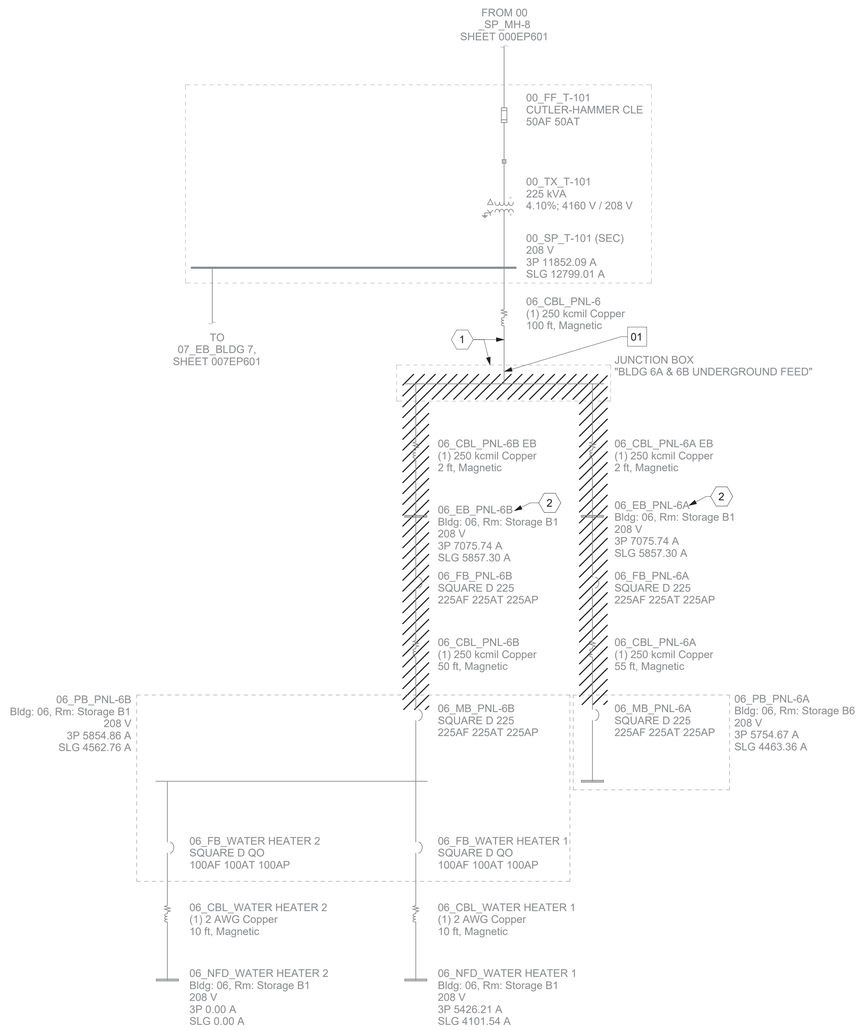
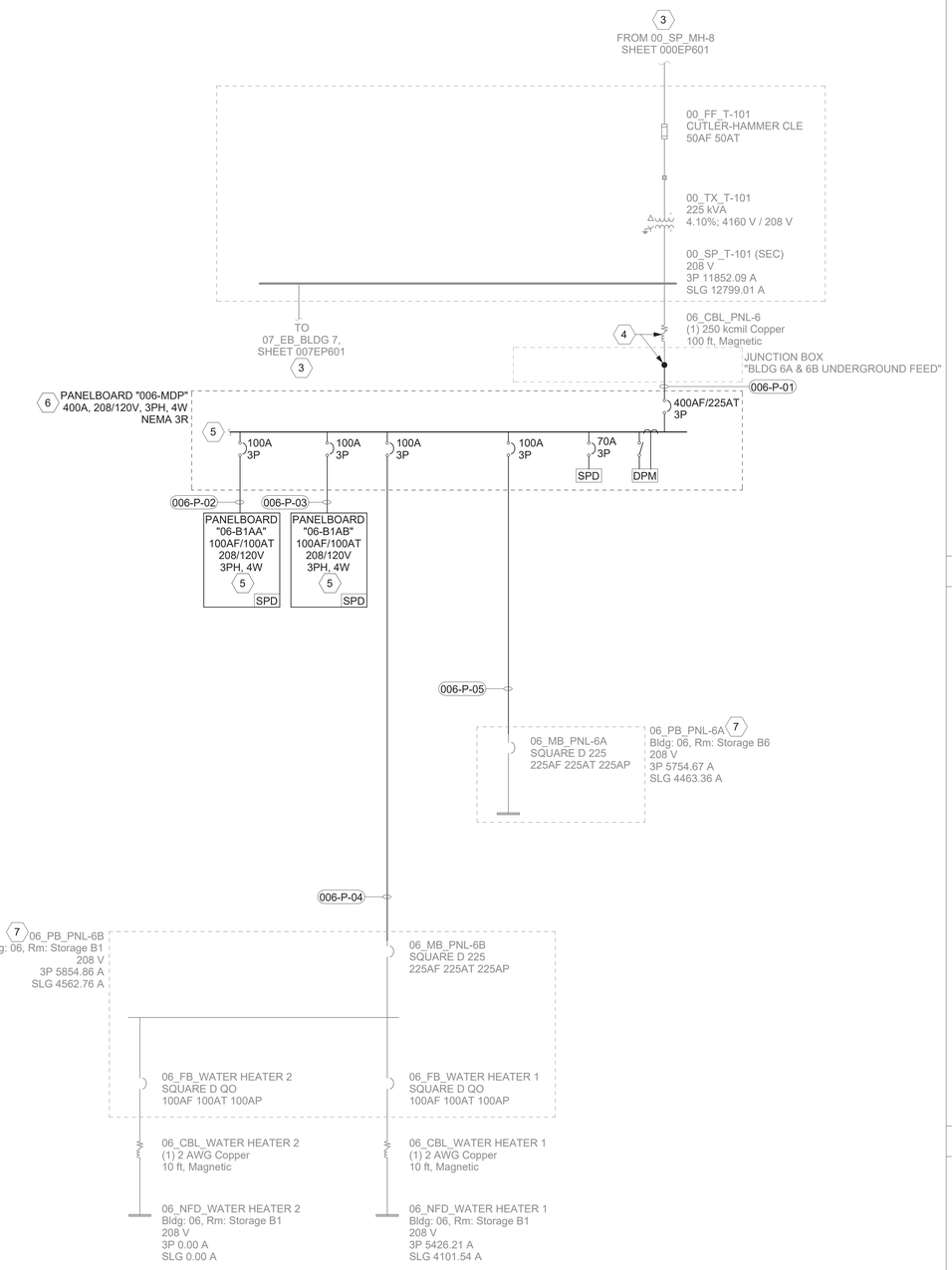


1 - BLDG 006- ONE-LINE DIAGRAM - EXISTING

NTS



2 - BLDG 006- ONE-LINE DIAGRAM - REVISED

NTS

GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AS IT PERTAINS TO SUBJECT PROJECT. ANY DISCREPANCIES FOUND SHALL BE REPORTED TO THE ENGINEER.
2. CONTRACTOR SHALL PROVIDE ALL SHUTDOWN PLANS, TEMPORARY POWER PLANS, AND PHASING PLANS FOR VA REVIEW AND APPROVAL PRIOR TO COMMENCING WORK. ALL PLANS SHALL BE SUBMITTED FOR REVIEW 30 DAYS PRIOR TO IMPLEMENTATION.
3. SHORT CIRCUIT CALCULATIONS BASED ON VA PROVIDED AS-BUILTS.
4. NOT ALL ONE-LINE DIAGRAM DRAWING SHEETS MAY HAVE WORK SHOWN; ALL ONE-LINE DRAWINGS HAVE BEEN INCLUDED IN THIS DRAWING SET FOR REFERENCE PURPOSES.
5. ALL PROVIDED DIGITAL POWER METERS (DPM) SHALL BE INTEGRATED INTO EXISTING FACILTY BMS SYSTEM; PROVIDE ALL REQUIRED RACEWAYS, CABLING, AND INTEGRATION TO PROVIDE A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
6. CONTRACTOR SHALL PROVIDE CIRCUIT BREAKERS WITH AIC RATING EQUAL TO OR GREATER THAN HIGHEST FAULT CURRENT RATING INDICATED ON ASSOCIATED PANELBOARD SCHEDULE AND ONE-LINE DIAGRAM.
7. CIRCUIT BREAKERS SERVING TRANSFORMERS SHALL BE LOCKABLE.

KEY NOTES

1. PROTECT AND PRESERVE EXISTING BUILDING 6 SOURCE RACEWAY AND CONDUCTORS AND "BLDG 6A & 6B UNDERGROUND FEED" JUNCTION BOX FOR REUSE.
2. EXISTING EQUIPMENT AND ASSOCIATED RACEWAYS AND CONDUCTORS SHALL BE DEMOLISHED AS INDICATED.
3. ADDITIONAL LOAD HAS BEEN ADDED TO FEEDER. REFERENCE CONTINUED ONE-LINE DIAGRAM AS INDICATED ON DRAWING AND ASSOCIATED PANEL SCHEDULE FOR ADDITIONAL LOADING INFORMATION.
4. PROVIDE INSULATED TAPS WITHIN EXISTING JUNCTION BOX TO EXTEND EXISTING FEEDER AS INDICATED
5. REFERENCE BUILDING 006 PANEL SCHEDULES FOR ADDITIONAL INFORMATION
6. PROVIDE PANELBOARD "006-MDP" AS INDICATED. PROVIDE CONDUIT AND WIRE TO RE-TERMIATE EXISTING FEEDER AND BRANCH CIRCUITS AS REQUIRED. REFERENCE PANEL SCHEDULES ON SHEET 006EP701 FOR ADDITIONAL INFORMATION.
7. PROVIDE AND MOUNT PLACARD TO PANELBOARD TO READ AS FOLLOWS "FED FROM 100A CB VIA '006-MDP'".

LOAD DATA POINT NOTES

01 LOAD DATA POINT: EXISTING TAP BOX "06_SP_PNL-6" MAIN. REFERENCE TAP BOX "06_SP_PNL-6" METERING AND LOAD INFORMATION SCHEDULE ON SHEET 006EP701 FOR ADDITIONAL INFORMATION.

Revisions:	Date:

CONSULTANT/ DISCIPLINE

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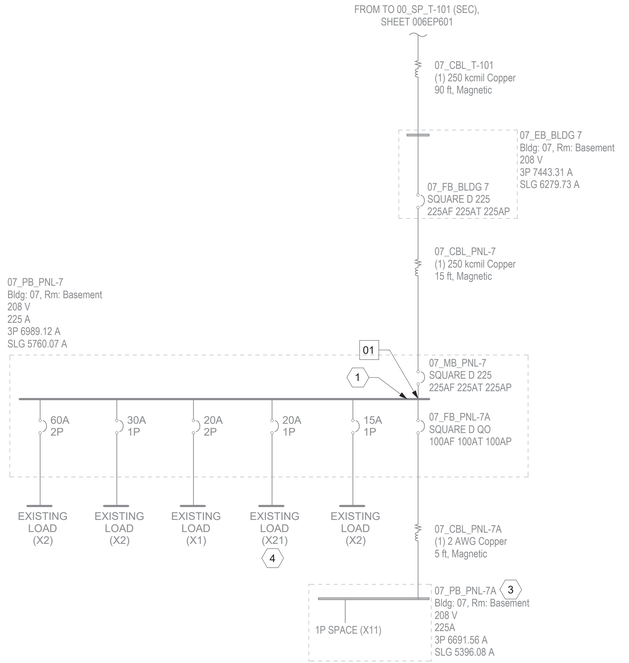
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

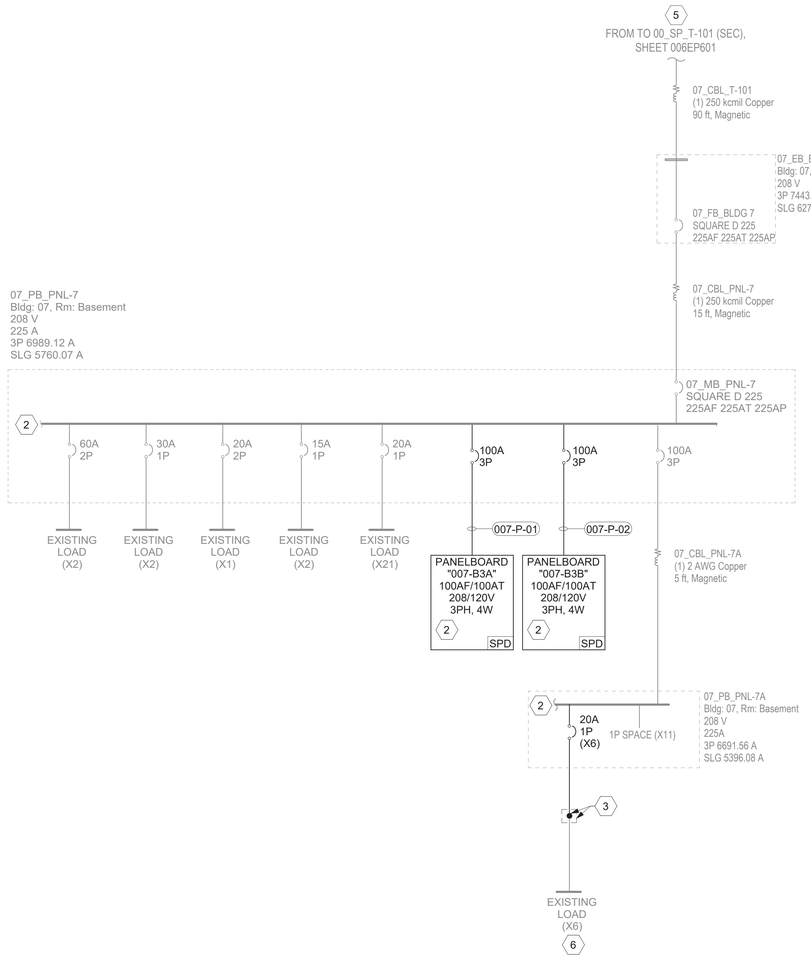
Drawing Title: BLDG 006 - ONE-LINE DIAGRAMS	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER	Project Number: 405-22-700
	Building Number: 006
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009	Drawing Number: 006EP601
Issue Date: 01/16/2026	Checked: NVP/DCW
	Drawn: RTS/KDB



1 - BLDG 007 - ONE-LINE DIAGRAM - EXISTING

NTS



2 - BLDG 007 - ONE-LINE DIAGRAM - REVISED

NTS

GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AS IT PERTAINS TO SUBJECT PROJECT. ANY DISCREPANCIES FOUND SHALL BE REPORTED TO THE ENGINEER.
2. CONTRACTOR SHALL PROVIDE ALL SHUTDOWN PLANS, TEMPORARY POWER PLANS, AND PHASING PLANS FOR VA REVIEW AND APPROVAL PRIOR TO COMMENCING WORK. ALL PLANS SHALL BE SUBMITTED FOR REVIEW 30 DAYS PRIOR TO IMPLEMENTATION.
3. SHORT CIRCUIT CALCULATIONS BASED ON VA PROVIDED AS-BUILTS.
4. NOT ALL ONE-LINE DIAGRAM DRAWING SHEETS MAY HAVE WORK SHOWN; ALL ONE-LINE DRAWINGS HAVE BEEN INCLUDED IN THIS DRAWING SET FOR REFERENCE PURPOSES.
5. ALL PROVIDED DIGITAL POWER METERS (DPM) SHALL BE INTEGRATED INTO EXISTING FACILTY BMS SYSTEM; PROVIDE ALL REQUIRED RACEWAYS, CABLING, AND INTEGRATION TO PROVIDE A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
6. CONTRACTOR SHALL PROVIDE CIRCUIT BREAKERS WITH AIC RATING EQUAL TO OR GREATER THAN HIGHEST FAULT CURRENT RATING INDICATED ON ASSOCIATED PANELBOARD SCHEDULE AND ONE-LINE DIAGRAM.
7. CIRCUIT BREAKERS SERVING TRANSFORMERS SHALL BE LOCKABLE.

KEY NOTES

1. EXISTING PANELBOARD SHALL BE DEMOLISHED AND REPLACED; ALL EXISTING BRANCH CIRCUITS SHALL BE PRESERVED AND PROTECTED FOR RE-TERMINATION. REFERENCE REVISED ONE-LINE DIAGRAMS AND BUILDING 007 PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
2. REFERENCE PANEL SCHEDULES FOR ADDITIONAL INFORMATION ON SHEET 007EP701.
3. PROVIDE JUNCTION BOX AND INSULATED TAPS TO EXTEND EXISTING CONDUIT AND WIRE TO PANELBOARD AS INDICATED. SIZE JUNCTION BOX PER NEC. CONTRACTOR SHALL FIELD COORDINATE JUNCTION BOX INSTALLATION LOCATION AS REQUIRED.
4. EXISTING LOAD (QTY = 6) SHALL BE RELOCATED. REFERENCE REVISED ONE-LINE DIAGRAM AND ASSOCIATED PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
5. ADDITIONAL LOAD HAS BEEN ADDED TO FEEDER. REFERENCE CONTINUED ONE-LINE DIAGRAM AS INDICATED ON DRAWING AND ASSOCIATED PANEL SCHEDULE FOR ADDITIONAL LOADING INFORMATION.
6. RELOCATED LOAD (QTY = 6). REFERENCE EXISTING ONE-LINE DIAGRAMS AND ASSOCIATED PANEL SCHEDULES FOR ADDITIONAL INFORMATION.

LOAD DATA POINT NOTES

01 LOAD DATA POINT: EXISTING PANELBOARD "07_PB_PNL-7" MAIN. REFERENCE PANELBOARD "07_PB_PNL-7" METERING AND LOAD INFORMATION SCHEDULE ON SHEET 007EP701 FOR ADDITIONAL INFORMATION.

Revisions:	Date:

CONSULTANT/ DISCIPLINE

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 007 - ONE-LINE DIAGRAMS

Phase: 100% CONSTRUCTION DOCUMENTS

Approved:

FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER

Project Number: 405-22-700

Building Number: 007

Location: VA VT WHITE RIVER JUNCTION
163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009

Drawing Number: 007EP601

Issue Date: 01/16/2026

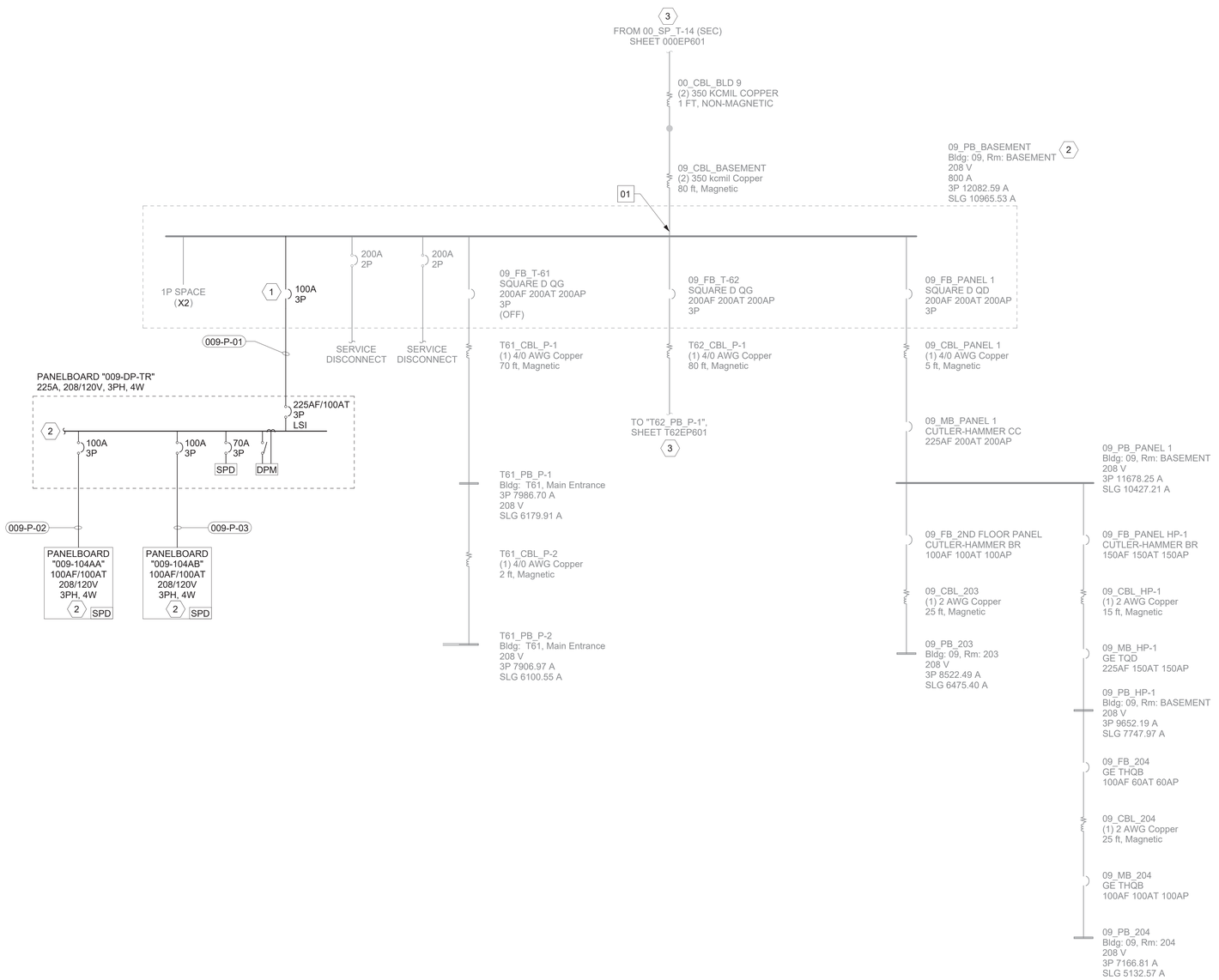
Checked: NVP/DCW

Drawn: RTS/KDB

VA FORM 08 - 6231

16/01/2026 3:56:18 am

Autodesk Docs://405-22-700 VA VT White River Junction EHRM IU/VAWR_GENERAL SHEETS_EL_SDB.rvt



1 BLDG 009 - ONE-LINE DIAGRAM
NTS

GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AS IT PERTAINS TO SUBJECT PROJECT. ANY DISCREPANCIES FOUND SHALL BE REPORTED TO THE ENGINEER.
2. CONTRACTOR SHALL PROVIDE ALL SHUTDOWN PLANS, TEMPORARY POWER PLANS, AND PHASING PLANS FOR VA REVIEW AND APPROVAL PRIOR TO COMMENCING WORK. ALL PLANS SHALL BE SUBMITTED FOR REVIEW 30 DAYS PRIOR TO IMPLEMENTATION.
3. SHORT CIRCUIT CALCULATIONS BASED ON VA PROVIDED AS-BUILTS.
4. NOT ALL ONE-LINE DIAGRAM DRAWING SHEETS MAY HAVE WORK SHOWN; ALL ONE-LINE DRAWINGS HAVE BEEN INCLUDED IN THIS DRAWING SET FOR REFERENCE PURPOSES.
5. ALL PROVIDED DIGITAL POWER METERS (DPM) SHALL BE INTEGRATED INTO EXISTING FACILTY BMS SYSTEM; PROVIDE ALL REQUIRED RACEWAYS, CABLING, AND INTEGRATION TO PROVIDE A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
6. CONTRACTOR SHALL PROVIDE CIRCUIT BREAKERS WITH AIC RATING EQUAL TO OR GREATER THAN HIGHEST FAULT CURRENT RATING INDICATED ON ASSOCIATED PANELBOARD SCHEDULE AND ONE-LINE DIAGRAM.
7. CIRCUIT BREAKERS SERVING TRANSFORMERS SHALL BE LOCKABLE.

KEY NOTES

1. UTILIZE EXISTING 3P SPACE TO PROVIDE CIRCUIT BREAKER TO SUPPLY LOAD AS INDICATED.
2. REFERENCE BUILDING 009 PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
3. ADDITIONAL LOAD HAS BEEN ADDED TO FEEDER. REFERENCE CONTINUED ONE-LINE DIAGRAM AS INDICATED ON DRAWING AND ASSOCIATED PANEL SCHEDULE FOR ADDITIONAL LOADING INFORMATION.

LOAD DATA POINT NOTES

01 LOAD DATA POINT: EXISTING PANELBOARD "09_PB_BASEMENT" MAIN. REFERENCE PANELBOARD "09_PB_BASEMENT" METERING AND LOAD INFORMATION SCHEDULE ON SHEET 009EP701 FOR ADDITIONAL INFORMATION.

Revisions:	Date:

CONSULTANT/ DISCIPLINE

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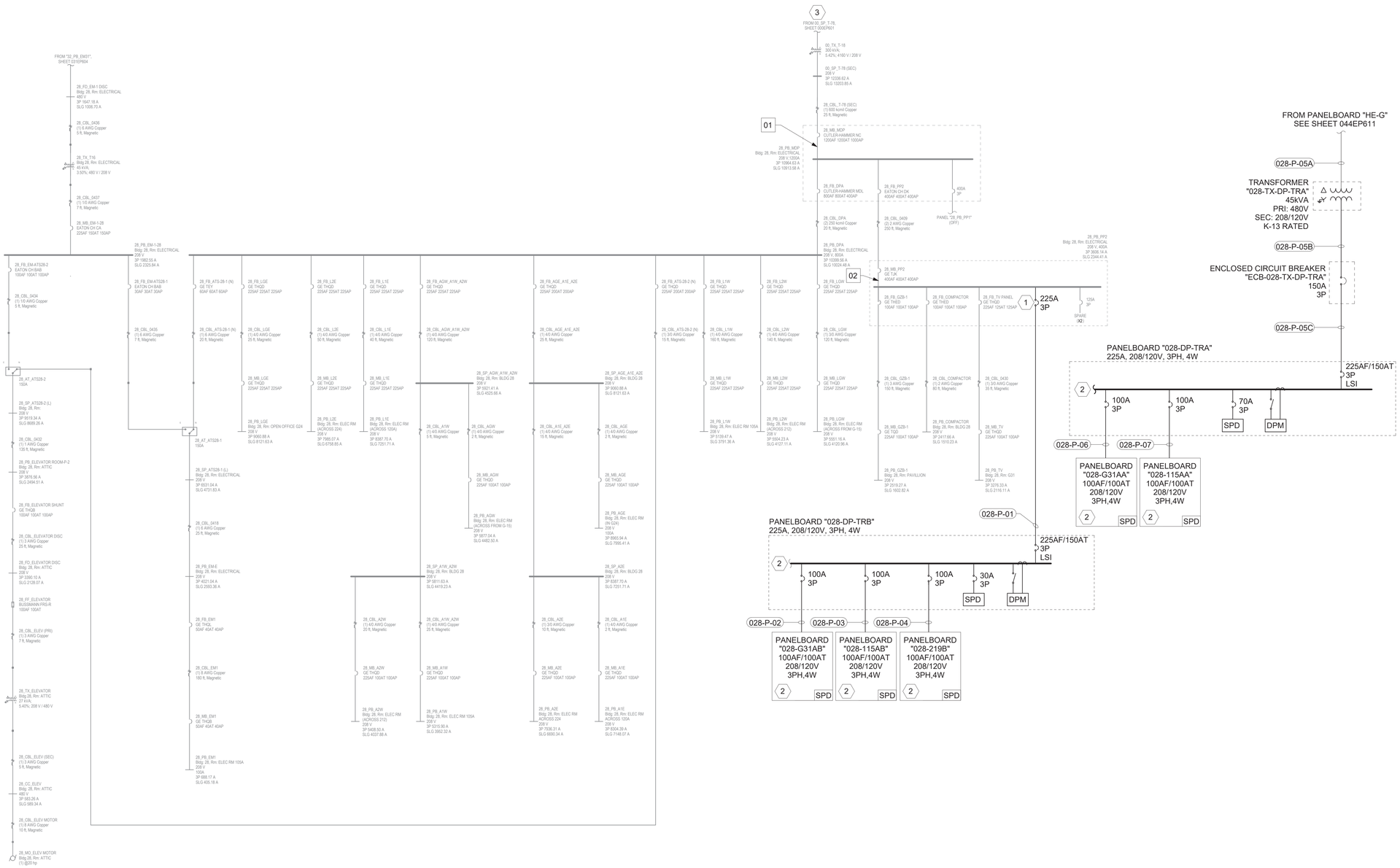
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	BLDG 009 - ONE-LINE DIAGRAM
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Project Number	405-22-700
Building Number	009
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Drawing Number	009EP601
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB



GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AS IT PERTAINS TO SUBJECT PROJECT. ANY DISCREPANCIES FOUND SHALL BE REPORTED TO THE ENGINEER.
2. CONTRACTOR SHALL PROVIDE ALL SHUTDOWN PLANS, TEMPORARY POWER PLANS, AND PHASING PLANS FOR VA REVIEW AND APPROVAL PRIOR TO COMMENCING WORK. ALL PLANS SHALL BE SUBMITTED FOR REVIEW 30 DAYS PRIOR TO IMPLEMENTATION.
3. SHORT CIRCUIT CALCULATIONS BASED ON VA PROVIDED AS-BUILTS.
4. NOT ALL ONE-LINE DIAGRAM DRAWING SHEETS MAY HAVE WORK SHOWN; ALL ONE-LINE DRAWINGS HAVE BEEN INCLUDED IN THIS DRAWING SET FOR REFERENCE PURPOSES.
5. ALL PROVIDED DIGITAL POWER METERS (DPM) SHALL BE INTEGRATED INTO EXISTING FACILTY BMS SYSTEM; PROVIDE ALL REQUIRED RACEWAYS, CABLING, AND INTEGRATION TO PROVIDE A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
6. CONTRACTOR SHALL PROVIDE CIRCUIT BREAKERS WITH AIC RATING EQUAL TO OR GREATER THAN HIGHEST FAULT CURRENT RATING INDICATED ON ASSOCIATED PANELBOARD SCHEDULE AND ONE-LINE DIAGRAM.
7. CIRCUIT BREAKERS SERVING TRANSFORMERS SHALL BE LOCKABLE.

KEY NOTES

1. SALVAGE EXISTING 125A 3P SPARE TO PROVIDE CIRCUIT BREAKER TO SUPPLY LOAD AS INDICATED.
2. REFERENCE PANEL SCHEDULES ON SHEET 028EP701 FOR ADDITIONAL INFORMATION.
3. ADDITIONAL LOAD HAS BEEN ADDED TO FEEDER. REFERENCE CONTINUED ONE-LINE DIAGRAM AS INDICATED ON DRAWING AND ASSOCIATED PANEL SCHEDULE FOR ADDITIONAL LOADING INFORMATION.

LOAD DATA POINT NOTES

01 LOAD DATA POINT: EXISTING PANELBOARD "28_PB_MDP" MAIN. REFERENCE PANELBOARD "28_PB_MDP" METERING AND LOAD INFORMATION SCHEDULE ON SHEET 028EP701 FOR ADDITIONAL INFORMATION.

02 LOAD DATA POINT: EXISTING PANELBOARD "28_PB_PP2" MAIN. REFERENCE PANELBOARD "28_PB_PP2" METERING AND LOAD INFORMATION SCHEDULE ON SHEET 028EP701 FOR ADDITIONAL INFORMATION.

1 BLDG 028 - ONE-LINE DIAGRAM

NTS

Revisions:	Date:

CONSULTANT/ DISCIPLINE

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VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 028 - ONE-LINE DIAGRAM	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER	Project Number: 405-22-700
	Building Number: 028
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009	Drawing Number: 028EP601
Issue Date: 01/16/2026 / Checked: NVP/DCW / Drawn: RTS/KDB	

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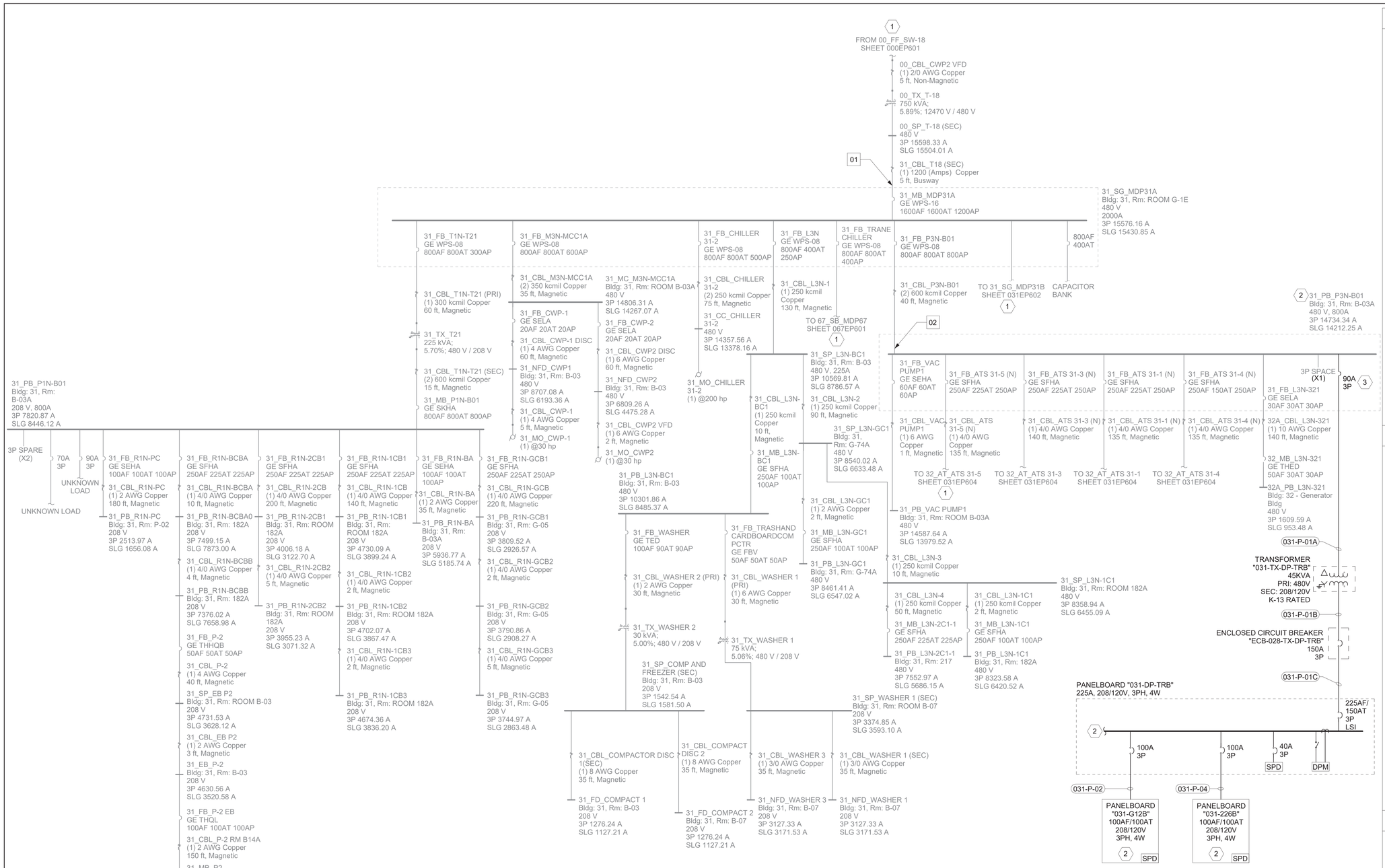
1 16/01/2026 3:56:27 am

Autodesk Docs://405-22-700 VA VT White River Junction EHRM IU/VAWR_GENERAL SHEETS_EL_SDB.rvt



1 / - BLDG 031 - ONE - LINE DIAGRAM - PART 1 OF 4

NTS

GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AS IT PERTAINS TO SUBJECT PROJECT. ANY DISCREPANCIES FOUND SHALL BE REPORTED TO THE ENGINEER.
2. CONTRACTOR SHALL PROVIDE ALL SHUTDOWN PLANS, TEMPORARY POWER PLANS, AND PHASING PLANS FOR VA REVIEW AND APPROVAL PRIOR TO COMMENCING WORK. ALL PLANS SHALL BE SUBMITTED FOR REVIEW 30 DAYS PRIOR TO IMPLEMENTATION.
3. SHORT CIRCUIT CALCULATIONS BASED ON VA PROVIDED AS-BUILTS.
4. NOT ALL ONE-LINE DIAGRAM DRAWING SHEETS MAY HAVE WORK SHOWN; ALL ONE-LINE DRAWINGS HAVE BEEN INCLUDED IN THIS DRAWING SET FOR REFERENCE PURPOSES.
5. ALL PROVIDED DIGITAL POWER METERS (DPM) SHALL BE INTEGRATED INTO EXISTING FACILTY BMS SYSTEM; PROVIDE ALL REQUIRED RACEWAYS, CABLING, AND INTEGRATION TO PROVIDE A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
6. CONTRACTOR SHALL PROVIDE CIRCUIT BREAKERS WITH AIC RATING EQUAL TO OR GREATER THAN HIGHEST FAULT CURRENT RATING INDICATED ON ASSOCIATED PANELBOARD SCHEDULE AND ONE-LINE DIAGRAM.
7. CIRCUIT BREAKERS SERVING TRANSFORMERS SHALL BE LOCKABLE.

KEY NOTES

1. ADDITIONAL LOAD HAS BEEN ADDED TO FEEDER. REFERENCE CONTINUED ONE-LINE DIAGRAM AS INDICATED ON DRAWING AND ASSOCIATED PANEL SCHEDULE FOR ADDITIONAL LOADING INFORMATION.
2. REFERENCE BUILDING 031 PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
3. UTILIZE EXISTING 3P SPACE TO PROVIDE CIRCUIT BREAKER TO SUPPLY LOAD AS SHOWN.

LOAD DATA POINT NOTES

01 LOAD DATA POINT: EXSITNG PANELBOARD "31_SG_MDP31A" MAIN. REFERENCE SWITCHGEAR "31_SG_MDP31A" CALCULATED LOAD INFORMATION SCHEDULE ON SHEET 031EP701 FOR ADDITIONAL INFORMATION.

02 LOAD DATA POINT: EXISTING PANELBOARD "31_PB_P3N-B01" MAIN. REFERENCE PANELBOARD "31_PB_P3N-B01" METERING AND LOAD INFORMATION SCHEDULE ON SHEET 031EP701 FOR ADDITIONAL INFORMATION.

Revisions:	Date:

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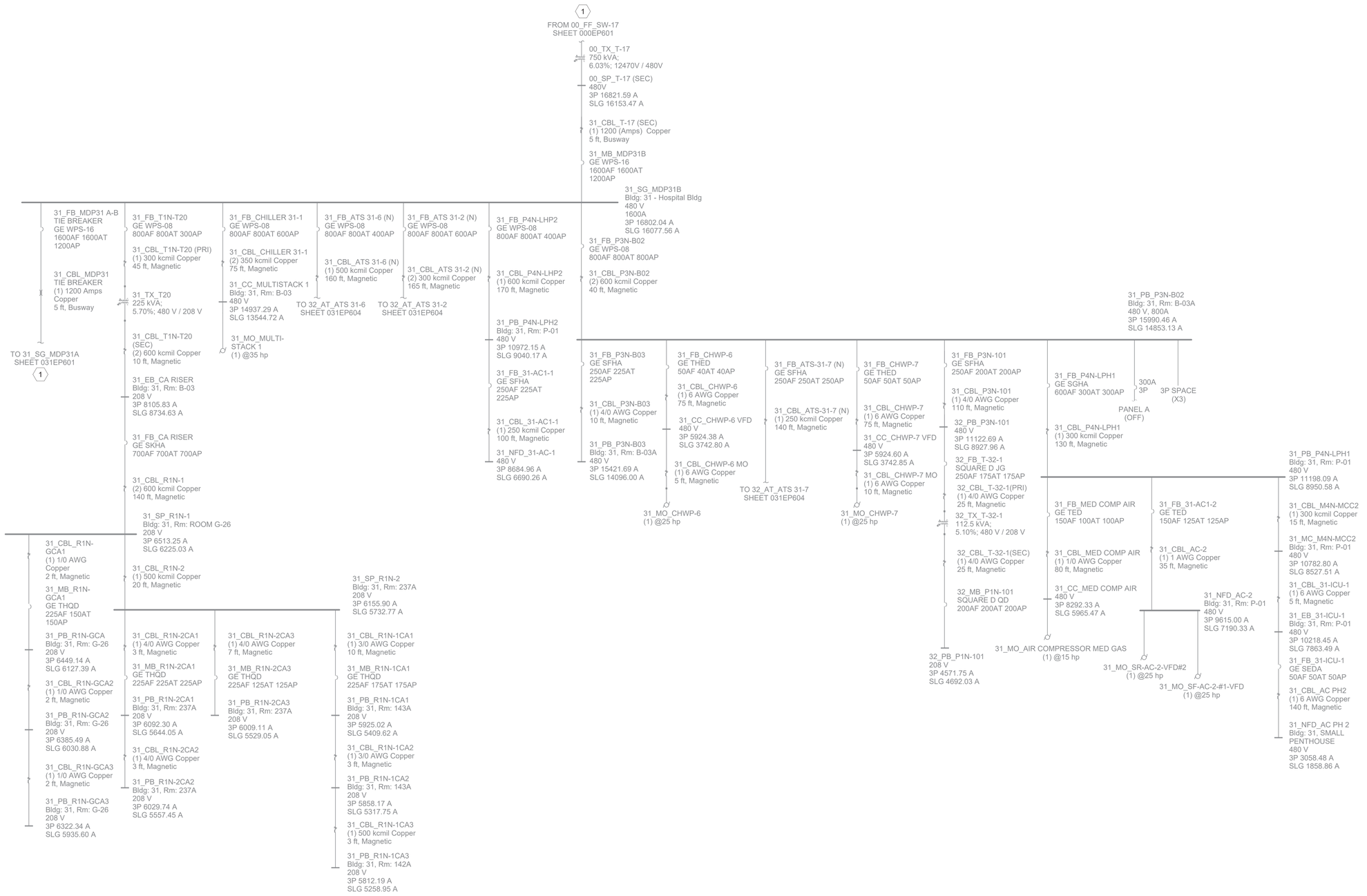
Drawing Title	BLDG 031 - ONE-LINE DIAGRAM - PART 1 OF 4
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Project Number	405-22-700
Building Number	031
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Drawing Number	031EP601
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB



1 BLDG 031 - ONE-LINE DIAGRAM - PART 2 OF 4
NTS

GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AS IT PERTAINS TO SUBJECT PROJECT. ANY DISCREPANCIES FOUND SHALL BE REPORTED TO THE ENGINEER.
2. CONTRACTOR SHALL PROVIDE ALL SHUTDOWN PLANS, TEMPORARY POWER PLANS, AND PHASING PLANS FOR VA REVIEW AND APPROVAL PRIOR TO COMMENCING WORK. ALL PLANS SHALL BE SUBMITTED FOR REVIEW 30 DAYS PRIOR TO IMPLEMENTATION.
3. SHORT CIRCUIT CALCULATIONS BASED ON VA PROVIDED AS-BUILTS.
4. NOT ALL ONE-LINE DIAGRAM DRAWING SHEETS MAY HAVE WORK SHOWN; ALL ONE-LINE DRAWINGS HAVE BEEN INCLUDED IN THIS DRAWING SET FOR REFERENCE PURPOSES.
5. ALL PROVIDED DIGITAL POWER METERS (DPM) SHALL BE INTEGRATED INTO EXISTING FACILTY BMS SYSTEM; PROVIDE ALL REQUIRED RACEWAYS, CABLING, AND INTEGRATION TO PROVIDE A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
6. CONTRACTOR SHALL PROVIDE CIRCUIT BREAKERS WITH AIC RATING EQUAL TO OR GREATER THAN HIGHEST FAULT CURRENT RATING INDICATED ON ASSOCIATED PANELBOARD SCHEDULE AND ONE-LINE DIAGRAM.
7. CIRCUIT BREAKERS SERVING TRANSFORMERS SHALL BE LOCKABLE.

KEY NOTES

1 ADDITIONAL LOAD HAS BEEN ADDED TO FEEDER. REFERENCE CONTINUED ONE-LINE DIAGRAM AS INDICATED ON DRAWING AND ASSOCIATED PANEL SCHEDULE FOR ADDITIONAL LOADING INFORMATION.

Revisions:	Date:

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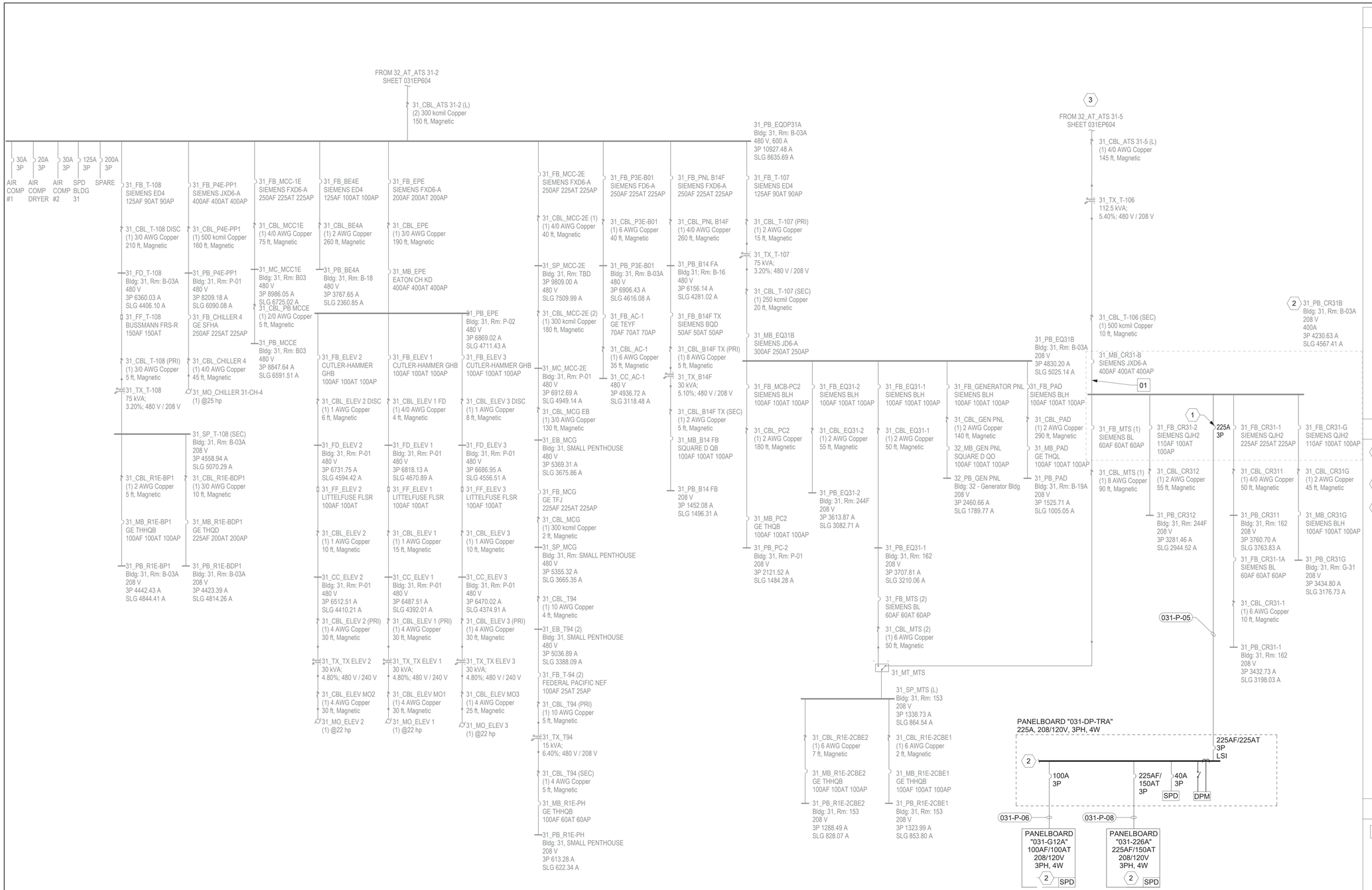
VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 031 - ONE-LINE DIAGRAM - PART 2 OF 4
Approved:
Phase: 100% CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED
Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Issue Date: 01/16/2026
Checked: NVP/DCW
Drawn: RTS/KDB
Project Number: 405-22-700
Building Number: 031
Drawing Number: 031EP602



GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AS IT PERTAINS TO SUBJECT PROJECT. ANY DISCREPANCIES FOUND SHALL BE REPORTED TO THE ENGINEER.
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5. ALL PROVIDED DIGITAL POWER METERS (DPM) SHALL BE INTEGRATED INTO EXISTING FACILTY BMS SYSTEM; PROVIDE ALL REQUIRED RACEWAYS, CABLING, AND INTEGRATION TO PROVIDE A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
6. CONTRACTOR SHALL PROVIDE CIRCUIT BREAKERS WITH AIC RATING EQUAL TO OR GREATER THAN HIGHEST FAULT CURRENT RATING INDICATED ON ASSOCIATED PANELBOARD SCHEDULE AND ONE-LINE DIAGRAM.
7. CIRCUIT BREAKERS SERVING TRANSFORMERS SHALL BE LOCKABLE.

KEY NOTES

1. SALVAGE EXISTING 150A, 3P SPARE CIRCUIT BREAKER TO PROVIDE OVERCURRENT PROTECTIVE DEVICE TO SUPPLY LOAD AS SHOWN.
2. REFERENCE BUILDING 031 PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
3. ADDITIONAL LOAD HAS BEEN ADDED TO FEEDER. REFERENCE CONTINUED ONE-LINE DIAGRAM AS INDICATED ON DRAWING AND ASSOCIATED PANEL SCHEDULE FOR ADDITIONAL LOADING INFORMATION.

LOAD DATA POINT NOTES

01 LOAD DATA POINT: EXISTING PANELBOARD "31_PB_CR31B" MAIN. REFERENCE PANELBOARD "31_PB_CR31B" METERING AND LOAD INFORMATION SCHEDULE ON SHEET 031EP702 FOR ADDITIONAL INFORMATION.

1 - BLDG 031 - ONE-LINE DIAGRAM - PART 3 OF 4

NTS

Revisions:	Date:

CONSULTANT/ DISCIPLINE

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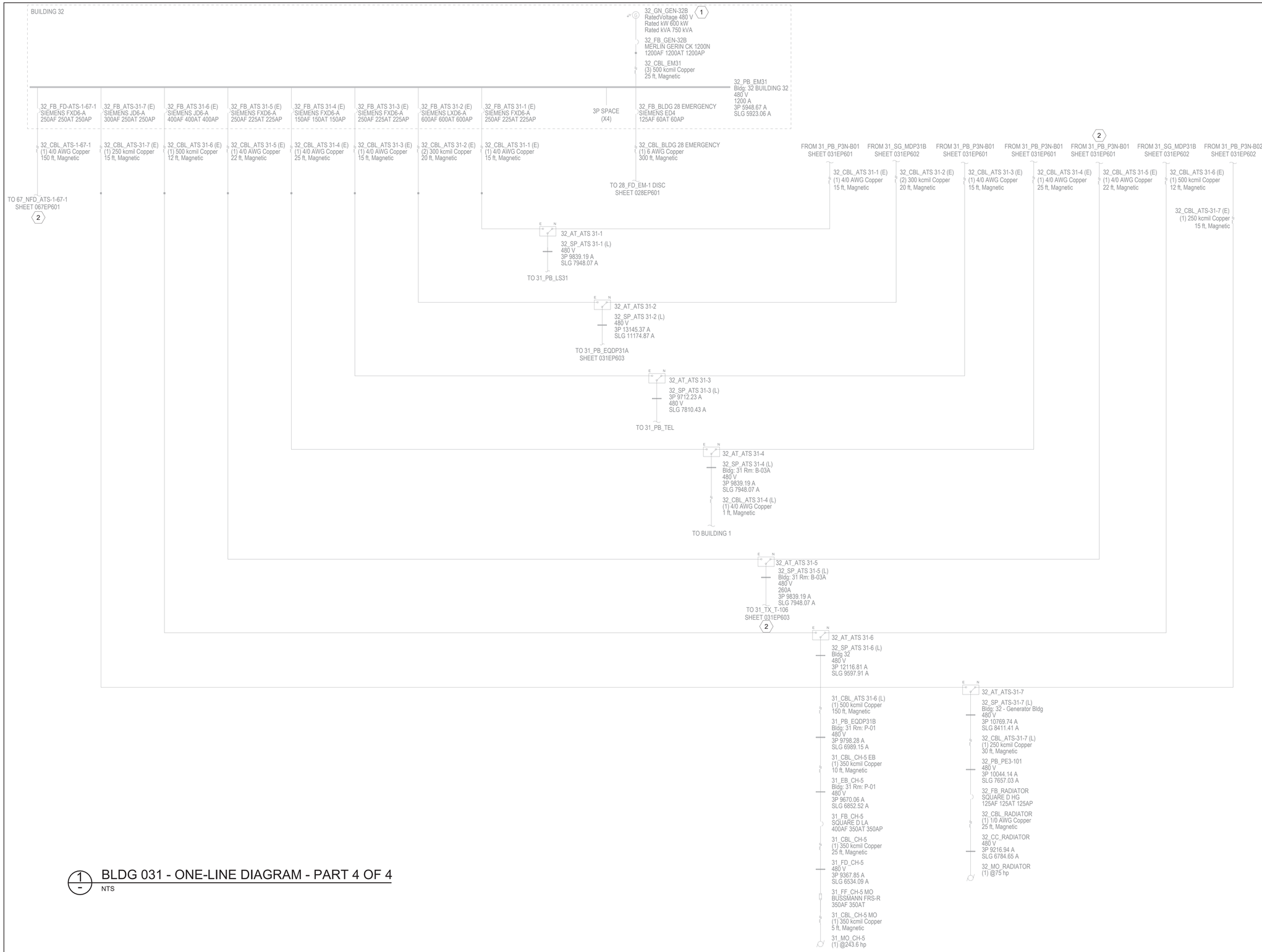
VA U.S. Department of Veterans Affairs

Drawing Title	BLDG 031 - ONE-LINE DIAGRAM - PART 3 OF 4
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB
Project Number	405-22-700
Building Number	031
Drawing Number	031EP603



1 BLDG 031 - ONE-LINE DIAGRAM - PART 4 OF 4
NTS

GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AS IT PERTAINS TO SUBJECT PROJECT. ANY DISCREPANCIES FOUND SHALL BE REPORTED TO THE ENGINEER.
2. CONTRACTOR SHALL PROVIDE ALL SHUTDOWN PLANS, TEMPORARY POWER PLANS, AND PHASING PLANS FOR VA REVIEW AND APPROVAL PRIOR TO COMMENCING WORK. ALL PLANS SHALL BE SUBMITTED FOR REVIEW 30 DAYS PRIOR TO IMPLEMENTATION.
3. SHORT CIRCUIT CALCULATIONS BASED ON VA PROVIDED AS-BUILTS.
4. NOT ALL ONE-LINE DIAGRAM DRAWING SHEETS MAY HAVE WORK SHOWN; ALL ONE-LINE DRAWINGS HAVE BEEN INCLUDED IN THIS DRAWING SET FOR REFERENCE PURPOSES.
5. ALL PROVIDED DIGITAL POWER METERS (DPM) SHALL BE INTEGRATED INTO EXISTING FACILTY BMS SYSTEM; PROVIDE ALL REQUIRED RACEWAYS, CABLING, AND INTEGRATION TO PROVIDE A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
6. CONTRACTOR SHALL PROVIDE CIRCUIT BREAKERS WITH AIC RATING EQUAL TO OR GREATER THAN HIGHEST FAULT CURRENT RATING INDICATED ON ASSOCIATED PANELBOARD SCHEDULE AND ONE-LINE DIAGRAM.
7. CIRCUIT BREAKERS SERVING TRANSFORMERS SHALL BE LOCKABLE.

KEY NOTES

1. REFERENCE ASSOCIATED GENERATOR CAPACITY AND LOAD INFORMATION SCHEDULE ON SHEET EP701 FOR ADDITIONAL INFORMATION.
2. ADDITIONAL LOAD HAS BEEN ADDED TO FEEDER. REFERENCE CONTINUED ONE-LINE DIAGRAM AS INDICATED ON DRAWING AND ASSOCIATED PANEL SCHEDULE FOR ADDITIONAL LOADING INFORMATION.

Revisions:	Date:

CONSULTANT/ DISCIPLINE

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VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 031 - ONE-LINE DIAGRAM - PART 4 OF 4

Approved:

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER

Location: VA VT WHITE RIVER JUNCTION
163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009

Issue Date: 01/16/2026

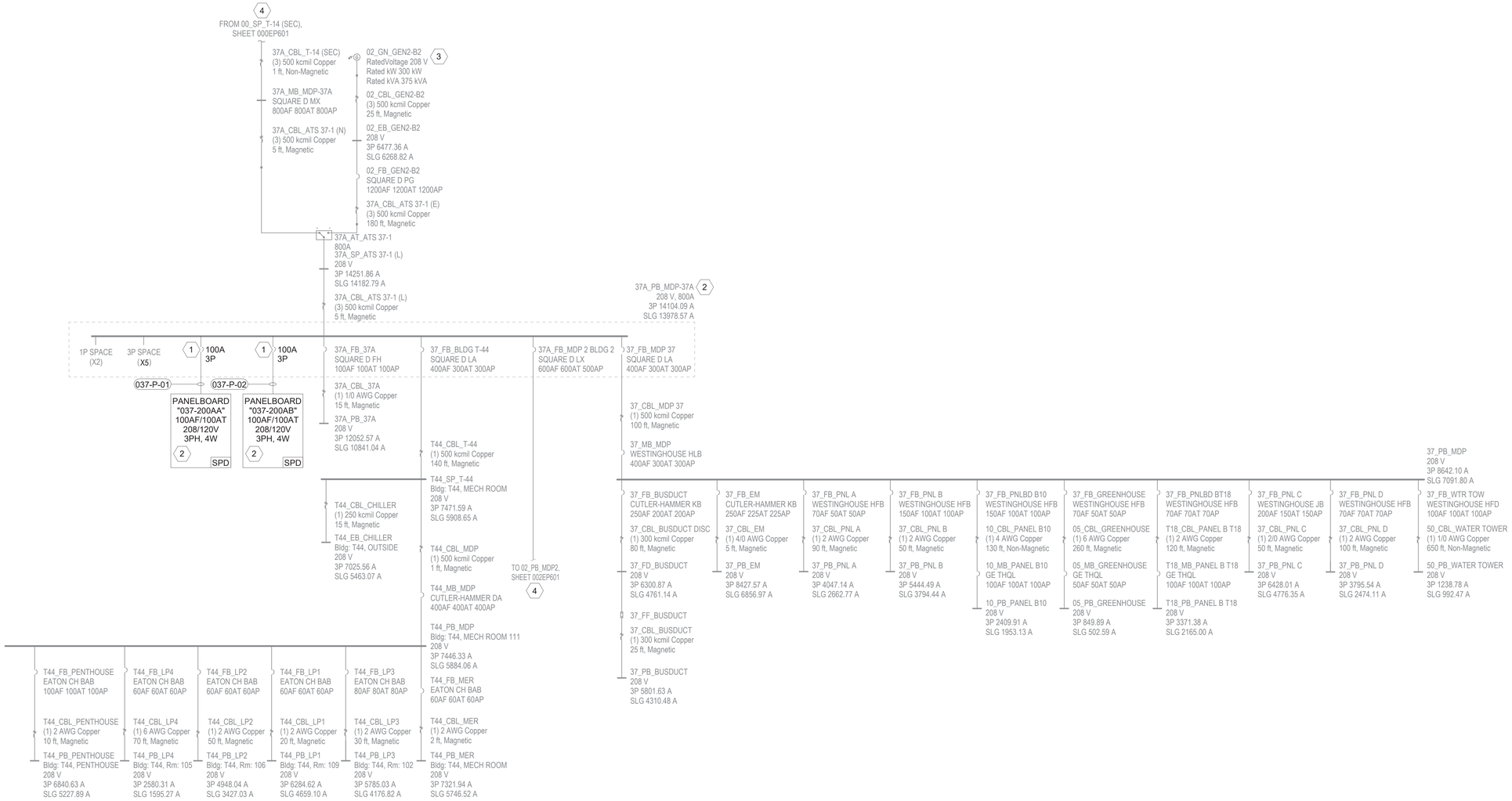
Checked: NVP/DCW

Drawn: RTS/KDB

Project Number: 405-22-700

Building Number: 031

Drawing Number: 031EP604



1 - BLDG 037 - ONE-LINE DIAGRAM

NTS

GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AS IT PERTAINS TO SUBJECT PROJECT. ANY DISCREPANCIES FOUND SHALL BE REPORTED TO THE ENGINEER.
2. CONTRACTOR SHALL PROVIDE ALL SHUTDOWN PLANS, TEMPORARY POWER PLANS, AND PHASING PLANS FOR VA REVIEW AND APPROVAL PRIOR TO COMMENCING WORK. ALL PLANS SHALL BE SUBMITTED FOR REVIEW 30 DAYS PRIOR TO IMPLEMENTATION.
3. SHORT CIRCUIT CALCULATIONS BASED ON VA PROVIDED AS-BUILTS.
4. NOT ALL ONE-LINE DIAGRAM DRAWING SHEETS MAY HAVE WORK SHOWN; ALL ONE-LINE DRAWINGS HAVE BEEN INCLUDED IN THIS DRAWING SET FOR REFERENCE PURPOSES.
5. ALL PROVIDED DIGITAL POWER METERS (DPM) SHALL BE INTEGRATED INTO EXISTING FACILTY BMS SYSTEM; PROVIDE ALL REQUIRED RACEWAYS, CABLING, AND INTEGRATION TO PROVIDE A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
6. CONTRACTOR SHALL PROVIDE CIRCUIT BREAKERS WITH AIC RATING EQUAL TO OR GREATER THAN HIGHEST FAULT CURRENT RATING INDICATED ON ASSOCIATED PANELBOARD SCHEDULE AND ONE-LINE DIAGRAM.
7. CIRCUIT BREAKERS SERVING TRANSFORMERS SHALL BE LOCKABLE.

KEY NOTES

1. UTILIZE EXISTING 3P SPACE TO PROVIDE CIRCUIT BREAKER TO SUPPLY LOAD AS SHOWN.
2. REFERENCE BUILDING 037 PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
3. REFERENCE ASSOCIATED GENERATOR CAPACITY AND LOAD INFORMATION SCHEDULE ON ELECTRICAL SCHEDULE SHEETS FOR ADDITIONAL INFORMATION.
4. ADDITIONAL LOAD HAS BEEN ADDED TO FEEDER. REFERENCE CONTINUED ONE-LINE DIAGRAM AS INDICATED ON DRAWING AND ASSOCIATED PANEL SCHEDULE FOR ADDITIONAL LOADING INFORMATION.

Revisions:	Date:

CONSULTANT/ DISCIPLINE

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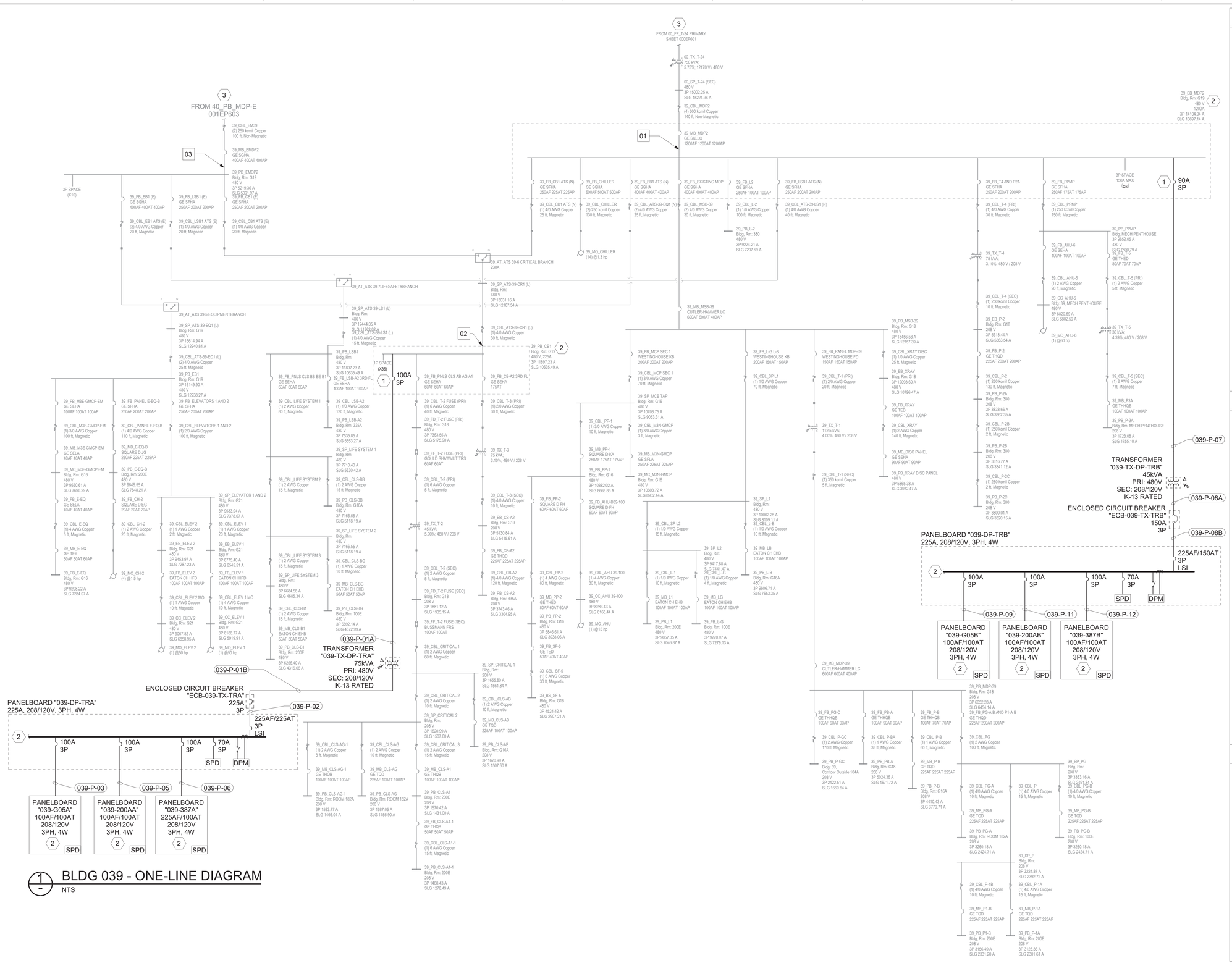
VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 037 - ONE-LINE DIAGRAM	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER	Project Number: 405-22-700
	Building Number: 037
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009	Drawing Number: 037EP601
Issue Date: 01/16/2026	Checked: NVP/DCW
	Drawn: RTS/KDB



1 - BLDG 039 - ONE-LINE DIAGRAM
NTS

GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AS IT PERTAINS TO SUBJECT PROJECT. ANY DISCREPANCIES FOUND SHALL BE REPORTED TO THE ENGINEER.
2. CONTRACTOR SHALL PROVIDE ALL SHUTDOWN PLANS, TEMPORARY POWER PLANS, AND PHASING PLANS FOR VA REVIEW AND APPROVAL PRIOR TO COMMENCING WORK. ALL PLANS SHALL BE SUBMITTED FOR REVIEW 30 DAYS PRIOR TO IMPLEMENTATION.
3. SHORT CIRCUIT CALCULATIONS BASED ON VA PROVIDED AS-BUILTS.
4. NOT ALL ONE-LINE DIAGRAM DRAWING SHEETS MAY HAVE WORK SHOWN; ALL ONE-LINE DRAWINGS HAVE BEEN INCLUDED IN THIS DRAWING SET FOR REFERENCE PURPOSES.
5. ALL PROVIDED DIGITAL POWER METERS (DPM) SHALL BE INTEGRATED INTO EXISTING FACILTY BMS SYSTEM; PROVIDE ALL REQUIRED RACEWAYS, CABLING, AND INTEGRATION TO PROVIDE A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
6. CONTRACTOR SHALL PROVIDE CIRCUIT BREAKERS WITH AIC RATING EQUAL TO OR GREATER THAN HIGHEST FAULT CURRENT RATING INDICATED ON ASSOCIATED PANELBOARD SCHEDULE AND ONE-LINE DIAGRAM.
7. CIRCUIT BREAKERS SERVING TRANSFORMERS SHALL BE LOCKABLE.

KEY NOTES

1. UTILIZE EXISTING 3P SPACE TO PROVIDE CIRCUIT BREAKER TO SUPPLY LOAD AS SHOWN.
2. REFERENCE BUILDING 039 ASSOCIATED PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
3. ADDITIONAL LOAD HAS BEEN ADDED TO FEEDER. REFERENCE CONTINUED ONE-LINE DIAGRAM AS INDICATED ON DRAWING AND ASSOCIATED PANEL SCHEDULE FOR ADDITIONAL LOADING INFORMATION.

LOAD DATA POINT NOTES

01 LOAD DATA POINT: EXISTING PANELBOARD "39_SB_MDP2" MAIN. REFERENCE PANELBOARD "39_SB_MDP2" METERING AND LOAD INFORMATION SCHEDULE ON SHEET 039EP701 FOR ADDITIONAL INFORMATION.

02 LOAD DATA POINT: EXISTING PANELBOARD "39_PB_CB1" MAIN. REFERENCE PANELBOARD "39_PB_CB1" METERING AND LOAD INFORMATION SCHEDULE ON SHEET 039EP701 FOR ADDITIONAL INFORMATION.

03 LOAD DATA POINT: EXISTING PANELBOARD "39_PB_CB1" MAIN. REFERENCE PANELBOARD "39_PB_EMDP2" METERING AND LOAD INFORMATION SCHEDULE ON SHEET 039EP701 FOR ADDITIONAL INFORMATION.

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
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LOUIS R. LITZKO — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 039 - ONE-LINE DIAGRAM

Approved:

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER

Project Number: 405-22-700

Building Number: 039

Location: VA VT WHITE RIVER JUNCTION
163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009

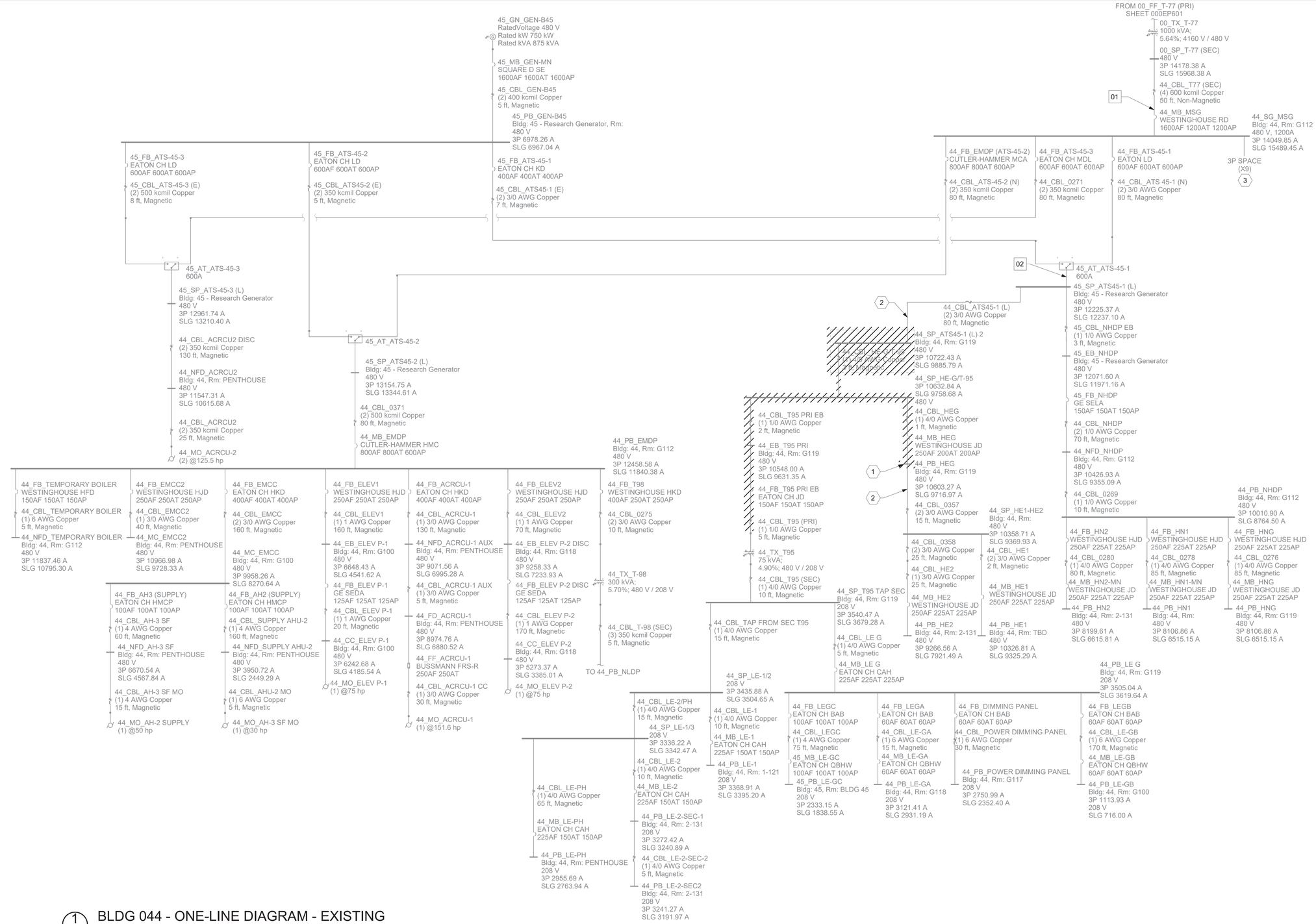
Drawing Number: 039EP601

Issue Date	Checked	Drawn
01/16/2026	NVP/DCW	RTS/KDB

VA FORM 08 - 6231

1 16/01/2026 3:56:56 am

Autodesk Docs://405-22-700 VA VT White River Junction EHRM IU/VAWR_GENERAL SHEETS_EL_SDB.rvt



1 - BLDG 044 - ONE-LINE DIAGRAM - EXISTING
NTS

GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AS IT PERTAINS TO SUBJECT PROJECT. ANY DISCREPANCIES FOUND SHALL BE REPORTED TO THE ENGINEER.
2. CONTRACTOR SHALL PROVIDE ALL SHUTDOWN PLANS, TEMPORARY POWER PLANS, AND PHASING PLANS FOR VA REVIEW AND APPROVAL PRIOR TO COMMENCING WORK. ALL PLANS SHALL BE SUBMITTED FOR REVIEW 30 DAYS PRIOR TO IMPLEMENTATION.
3. SHORT CIRCUIT CALCULATIONS BASED ON VA PROVIDED AS-BUILTS.
4. NOT ALL ONE-LINE DIAGRAM DRAWING SHEETS MAY HAVE WORK SHOWN; ALL ONE-LINE DRAWINGS HAVE BEEN INCLUDED IN THIS DRAWING SET FOR REFERENCE PURPOSES.
5. ALL PROVIDED DIGITAL POWER METERS (DPM) SHALL BE INTEGRATED INTO EXISTING FACILTY BMS SYSTEM; PROVIDE ALL REQUIRED RACEWAYS, CABLING, AND INTEGRATION TO PROVIDE A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
6. CONTRACTOR SHALL PROVIDE CIRCUIT BREAKERS WITH AIC RATING EQUAL TO OR GREATER THAN HIGHEST FAULT CURRENT RATING INDICATED ON ASSOCIATED PANELBOARD SCHEDULE AND ONE-LINE DIAGRAM.
7. CIRCUIT BREAKERS SERVING TRANSFORMERS SHALL BE LOCKABLE.

KEY NOTES

1. DEMOLISH EXISTING EQUIPMENT AND ASSOCIATED RACEWAYS AND CONDUCTORS AS INDICATED. REFERENCE ONE-LINE DIAGRAM SHEET 044EP611 FOR ADDITIONAL INFORMATION.
2. PRESERVE AND PROTECT EXISTING FEEDER FOR RE-TERMINATION TO REPLACEMENT EQUIPMENT. REFERENCE ONE-LINE DIAGRAM SHEET 044EP611 FOR ADDITIONAL INFORMATION.
3. EXISTING SPACE(S) SHALL BE UTILIZED. REFERENCE REVISED ONE-LINE DIAGRAMS FOR ADDITIONAL INFORMATION.

LOAD DATA POINT NOTES

01 LOAD DATA POINT: EXISTING PANELBOARD "44_SG_MSG" MAIN. REFERENCE PANELBOARD "44_SG_MSG" METERING AND LOAD INFORMATION SCHEDULE ON SHEET 044EP701 FOR ADDITIONAL INFORMATION.

02 LOAD DATA POINT: EXISTING AUTOMETIC TRANSFER SWITCH "45_AT_ATS-45-1". REFERENCE AUTOMETIC TRANSFER SWITCH "45_AT_ATS-45-1" METERING AND LOAD INFORMATION SCHEDULE ON SHEET 044EP701 FOR ADDITIONAL INFORMATION.

Revisions:	Date:

CONSULTANT/ DISCIPLINE

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LOUIS R. LITSO STATE OF WASHINGTON 55681 REGISTERED PROFESSIONAL ENGINEER
I-16-25

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 044 - ONE-LINE DIAGRAM - EXISTING
Phase: 100% CONSTRUCTION DOCUMENTS
Approved:
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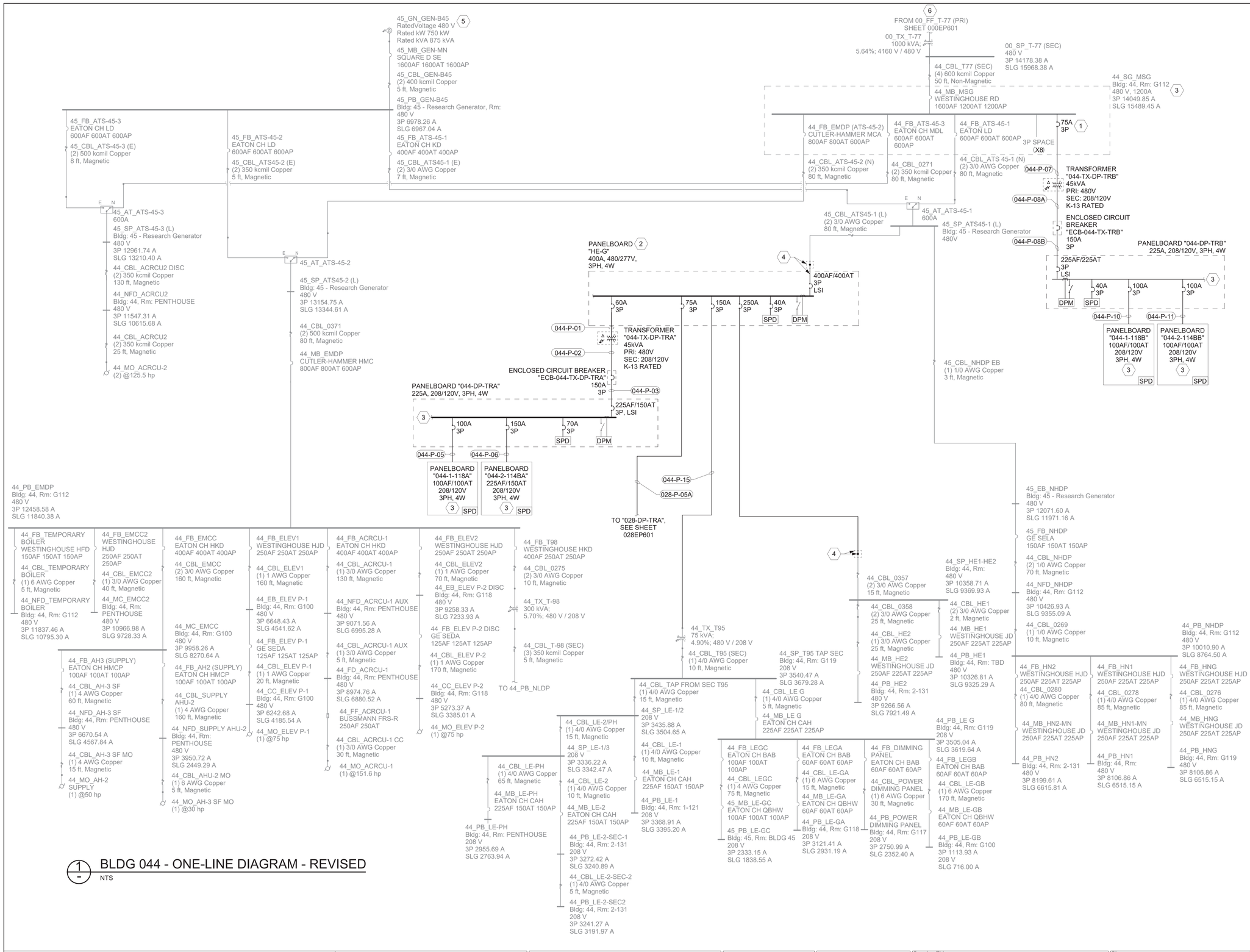
Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Project Number: 405-22-700
Building Number: 044
Location: VA VT WHITE RIVER JUNCTION
163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Drawing Number: 044EP601
Issue Date: 01/16/2026
Checked: NVP/DCW
Drawn: RTS/KDB



1 - BLDG 044 - ONE-LINE DIAGRAM - REVISED

NTS

GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AS IT PERTAINS TO SUBJECT PROJECT. ANY DISCREPANCIES FOUND SHALL BE REPORTED TO THE ENGINEER.
2. CONTRACTOR SHALL PROVIDE ALL SHUTDOWN PLANS, TEMPORARY POWER PLANS, AND PHASING PLANS FOR VA REVIEW AND APPROVAL PRIOR TO COMMENCING WORK. ALL PLANS SHALL BE SUBMITTED FOR REVIEW 30 DAYS PRIOR TO IMPLEMENTATION.
3. SHORT CIRCUIT CALCULATIONS BASED ON VA PROVIDED AS-BUILTS.
4. NOT ALL ONE-LINE DIAGRAM DRAWING SHEETS MAY HAVE WORK SHOWN; ALL ONE-LINE DRAWINGS HAVE BEEN INCLUDED IN THIS DRAWING SET FOR REFERENCE PURPOSES.
5. ALL PROVIDED DIGITAL POWER METERS (DPM) SHALL BE INTEGRATED INTO EXISTING FACILTY BMS SYSTEM; PROVIDE ALL REQUIRED RACEWAYS, CABLING, AND INTEGRATION TO PROVIDE A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
6. CONTRACTOR SHALL PROVIDE CIRCUIT BREAKERS WITH AIC RATING EQUAL TO OR GREATER THAN HIGHEST FAULT CURRENT RATING INDICATED ON ASSOCIATED PANELBOARD SCHEDULE AND ONE-LINE DIAGRAM.
7. CIRCUIT BREAKERS SERVING TRANSFORMERS SHALL BE LOCKABLE.

KEY NOTES

1. UTILIZE EXISTING 3P SPACE TO PROVIDE CIRCUIT BREAKER TO SUPPLY LOAD AS INDICATED.
2. PROVIDE DISTRIBUTION PANEL "HE-G" AS INDICATED. PROVIDE CONDUIT AND WIRE TO RE-TERMINATE EXISTING BRANCH CIRCUITS AS REQUIRED. REFERENCE PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
3. REFERENCE BUILDING 044 PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
4. PROVIDE JUNCTION BOX AND INSULATED TAPS TO EXTEND EXISTING CONDUIT AND WIRE TO REPLACEMENT SWITCHBOARD AS INDICATED. SIZE JUNCTION BOX PERNEC. CONTRACTOR SHALL FIELD COORDINATE JUNCTION BOX INSTALLATION LOCATION AS REQUIRED.
5. REFERENCE ASSOCIATED GENERATOR CAPACITY AND LOAD INFORMATION SCHEDULE ON SHEET EP701 FOR ADDITIONAL INFORMATION.
6. ADDITIONAL LOAD HAS BEEN ADDED TO FEEDER. REFERENCE CONTINUED ONE-LINE DIAGRAM AS INDICATED ON DRAWING AND ASSOCIATED PANEL SCHEDULE FOR ADDITIONAL LOADING INFORMATION.

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

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SPEES DESIGN BUILD
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1-16-25
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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	BLDG 044 - ONE-LINE DIAGRAM - REVISED
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Project Number	405-22-700
Building Number	044
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Drawing Number	044EP611
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB

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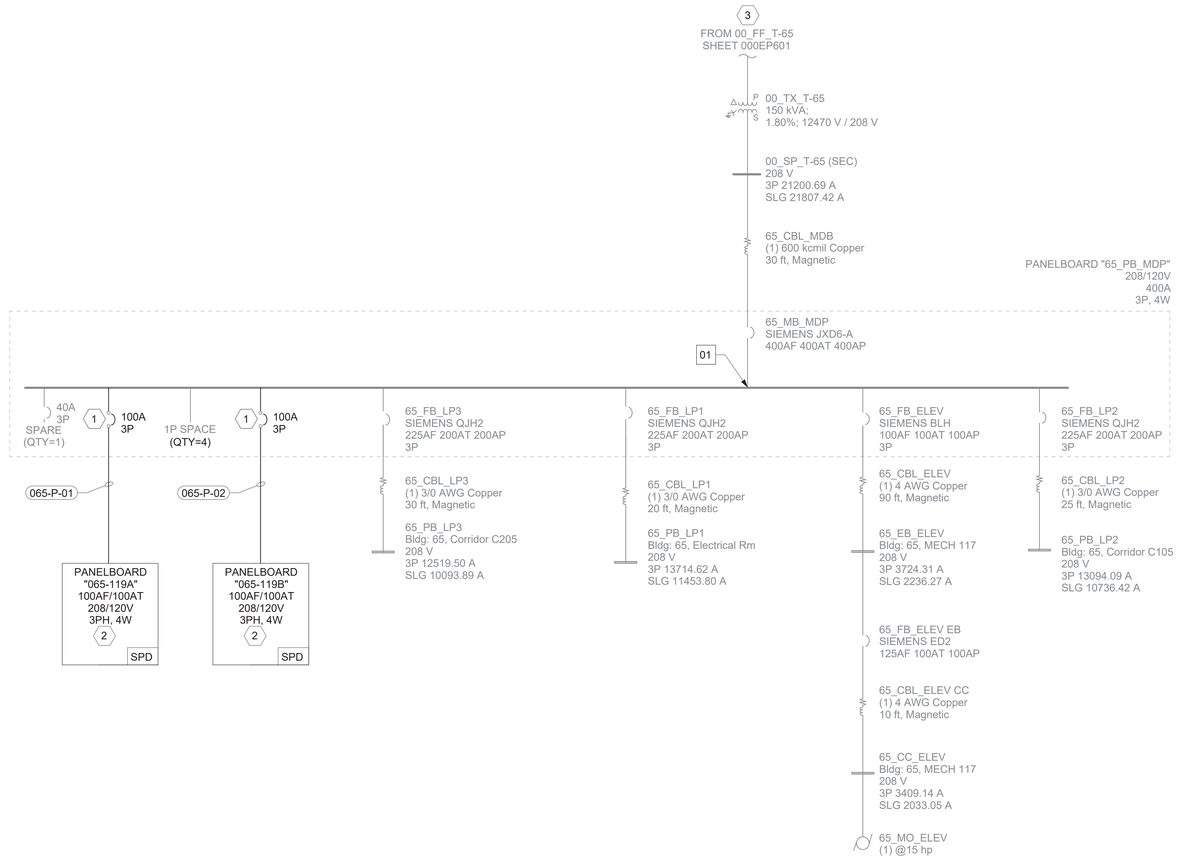
Autodesk Docs://405-22-700 VA VT White River Junction EHRM IU/VAWR_GENERAL SHEETS_EL_SDB.rvt



1 - BLDG 065 - ONE-LINE DIAGRAM
NTS

GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AS IT PERTAINS TO SUBJECT PROJECT. ANY DISCREPANCIES FOUND SHALL BE REPORTED TO THE ENGINEER.
2. CONTRACTOR SHALL PROVIDE ALL SHUTDOWN PLANS, TEMPORARY POWER PLANS, AND PHASING PLANS FOR VA REVIEW AND APPROVAL PRIOR TO COMMENCING WORK. ALL PLANS SHALL BE SUBMITTED FOR REVIEW 30 DAYS PRIOR TO IMPLEMENTATION.
3. SHORT CIRCUIT CALCULATIONS BASED ON VA PROVIDED AS-BUILTS.
4. NOT ALL ONE-LINE DIAGRAM DRAWING SHEETS MAY HAVE WORK SHOWN; ALL ONE-LINE DRAWINGS HAVE BEEN INCLUDED IN THIS DRAWING SET FOR REFERENCE PURPOSES.
5. ALL PROVIDED DIGITAL POWER METERS (DPM) SHALL BE INTEGRATED INTO EXISTING FACILTY BMS SYSTEM; PROVIDE ALL REQUIRED RACEWAYS, CABLING, AND INTEGRATION TO PROVIDE A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
6. CONTRACTOR SHALL PROVIDE CIRCUIT BREAKERS WITH AIC RATING EQUAL TO OR GREATER THAN HIGHEST FAULT CURRENT RATING INDICATED ON ASSOCIATED PANELBOARD SCHEDULE AND ONE-LINE DIAGRAM.
7. CIRCUIT BREAKERS SERVING TRANSFORMERS SHALL BE LOCKABLE.

KEY NOTES

1. UTILIZE EXISTING SPACES TO PROVIDE CIRCUIT BREAKER DEVICE AS SHOWN.
2. REFERENCE BUILDING 065 PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
3. ADDITIONAL LOAD HAS BEEN ADDED TO FEEDER. REFERENCE CONTINUED ONE-LINE DIAGRAM AS INDICATED ON DRAWING AND ASSOCIATED PANEL SCHEDULE FOR ADDITIONAL LOADING INFORMATION.

LOAD DATA POINT NOTES

01 LOAD DATA POINT: EXISTING PANELBOARD "65_PB_MDP" MAIN. REFERENCE PANELBOARD "65_PB_MDP" METERING AND LOAD INFORMATION SCHEDULE ON SHEET 065EP701 FOR ADDITIONAL INFORMATION.

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

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1-16-26
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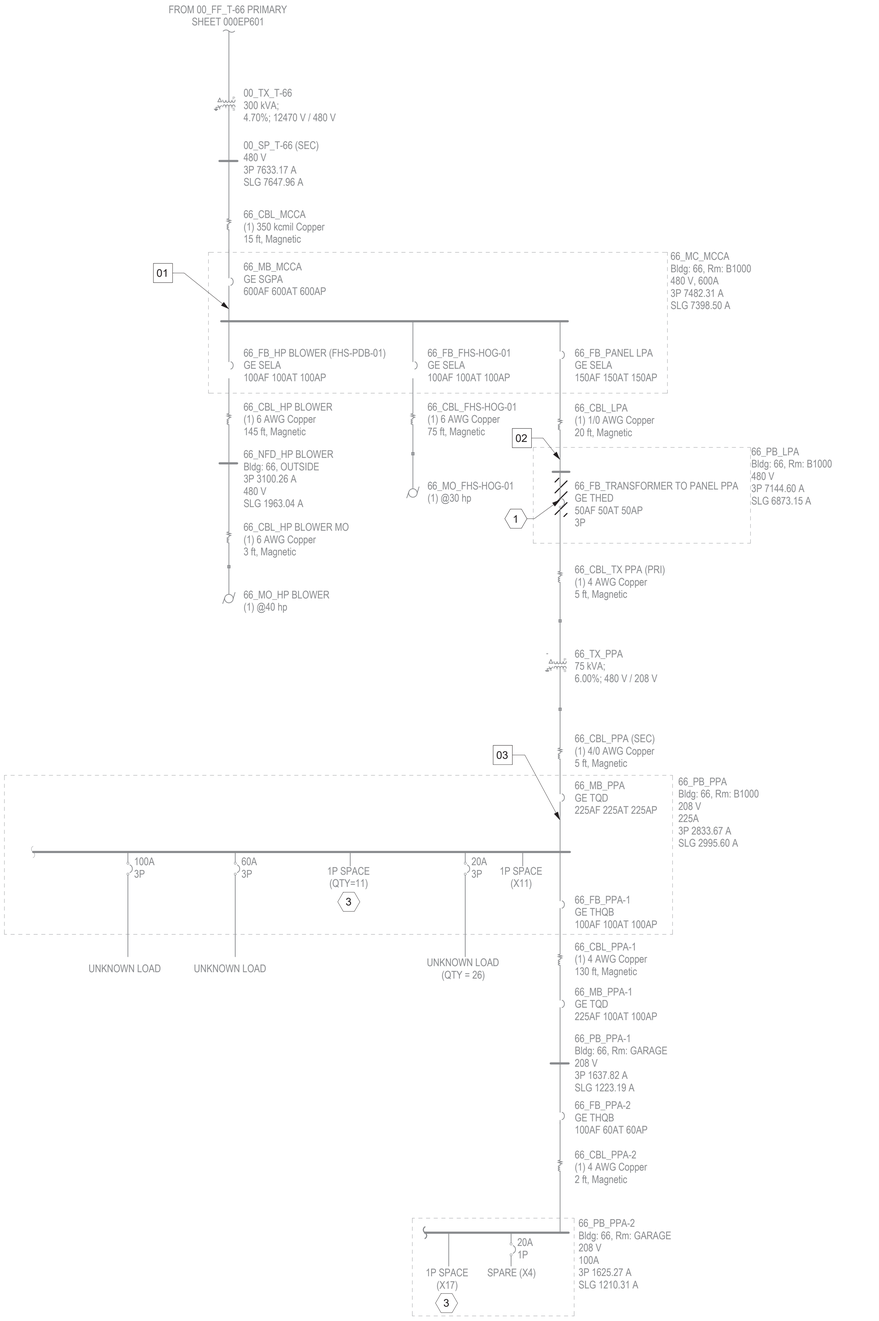
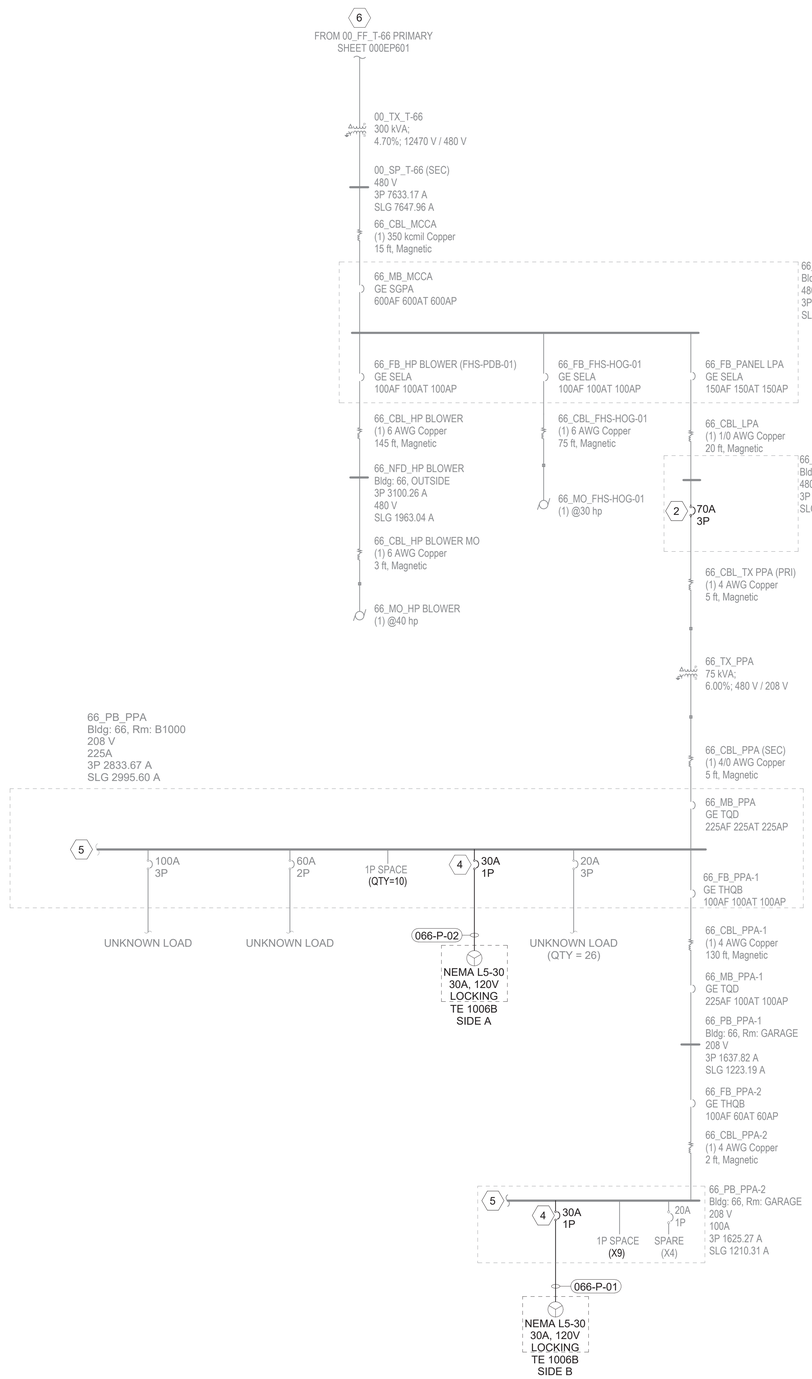
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 065 - ONE-LINE DIAGRAM
Phase: 100% CONSTRUCTION DOCUMENTS
Approved:
FULLY SPRINKLERED
Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Project Number: 405-22-700
Building Number: 065
Drawing Number: 065EP601
Issue Date: 01/16/2026
Checked: NVP/DCW
Drawn: RTS/KDB



1 BLDG 066 - ONE-LINE DIAGRAM - EXISTING
NTS



2 BLDG 066 - ONE-LINE DIAGRAM - REVISED
NTS

GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AS IT PERTAINS TO SUBJECT PROJECT. ANY DISCREPANCIES FOUND SHALL BE REPORTED TO THE ENGINEER.
2. CONTRACTOR SHALL PROVIDE ALL SHUTDOWN PLANS, TEMPORARY POWER PLANS, AND PHASING PLANS FOR VA REVIEW AND APPROVAL PRIOR TO COMMENCING WORK. ALL PLANS SHALL BE SUBMITTED FOR REVIEW 30 DAYS PRIOR TO IMPLEMENTATION.
3. SHORT CIRCUIT CALCULATIONS BASED ON VA PROVIDED AS-BUILTS.
4. NOT ALL ONE-LINE DIAGRAM DRAWING SHEETS MAY HAVE WORK SHOWN; ALL ONE-LINE DRAWINGS HAVE BEEN INCLUDED IN THIS DRAWING SET FOR REFERENCE PURPOSES.
5. ALL PROVIDED DIGITAL POWER METERS (DPM) SHALL BE INTEGRATED INTO EXISTING FACILTY BMS SYSTEM; PROVIDE ALL REQUIRED RACEWAYS, CABLING, AND INTEGRATION TO PROVIDE A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
6. CONTRACTOR SHALL PROVIDE CIRCUIT BREAKERS WITH AIC RATING EQUAL TO OR GREATER THAN HIGHEST FAULT CURRENT RATING INDICATED ON ASSOCIATED PANELBOARD SCHEDULE AND ONE-LINE DIAGRAM.
7. CIRCUIT BREAKERS SERVING TRANSFORMERS SHALL BE LOCKABLE.

KEY NOTES

1. EXISTING CIRCUIT BREAKER SHALL BE DEMOLISHED AND REPLACED. REFERENCE REVISED ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
2. PROVIDE UPSIZED CIRCUIT BREAKER AS INDICATED.
3. EXISTING SPACE(S) SHALL BE UTILIZED. REFERENCE REVISED ONE-LINE DIAGRAMS FOR ADDITIONAL INFORMATION.
4. UTILIZE EXISTING SPACES TO PROVIDE OVERCURRENT PROTECTION DEVICE AS SHOWN.
5. REFERENCE BUILDING 066 PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
6. ADDITIONAL LOAD HAS BEEN ADDED TO FEEDER. REFERENCE CONTINUED ONE-LINE DIAGRAM AS INDICATED ON DRAWING AND ASSOCIATED PANEL SCHEDULE FOR ADDITIONAL LOADING INFORMATION.

LOAD DATA POINT NOTES

01 LOAD DATA POINT: EXISTING MOTOR CONTROL CENTER "66_MC_MCCA" MAIN. REFERENCE MOTOR CONTROL CENTER "66_MC_MCCA" METERING AND LOAD INFORMATION SCHEDULE ON SHEET 066EP701 FOR ADDITIONAL INFORMATION.

02 LOAD DATA POINT: EXISTING PANELBOARD "66_PB_LPA" MAIN. REFERENCE PANELBOARD "66_PB_LPA" METERING AND LOAD INFORMATION SCHEDULE ON SHEET 066EP701 FOR ADDITIONAL INFORMATION.

03 LOAD DATA POINT: EXISTING PANELBOARD "66_PB_PPA" MAIN. REFERENCE PANELBOARD "66_PB_PPA" METERING AND LOAD INFORMATION SCHEDULE ON SHEET 066EP701 FOR ADDITIONAL INFORMATION.

Revisions:	Date:

CONSULTANT/ DISCIPLINE
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ARCHITECT/ ENGINEER OF RECORD
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23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032
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STATE OF WASHINGTON
55681
1-16-26
REGISTERED
PROFESSIONAL ENGINEER

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

Drawing Title	BLDG 066 - ONE-LINE DIAGRAMS
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Project Number	405-22-700
Building Number	066
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Drawing Number	066EP601
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB

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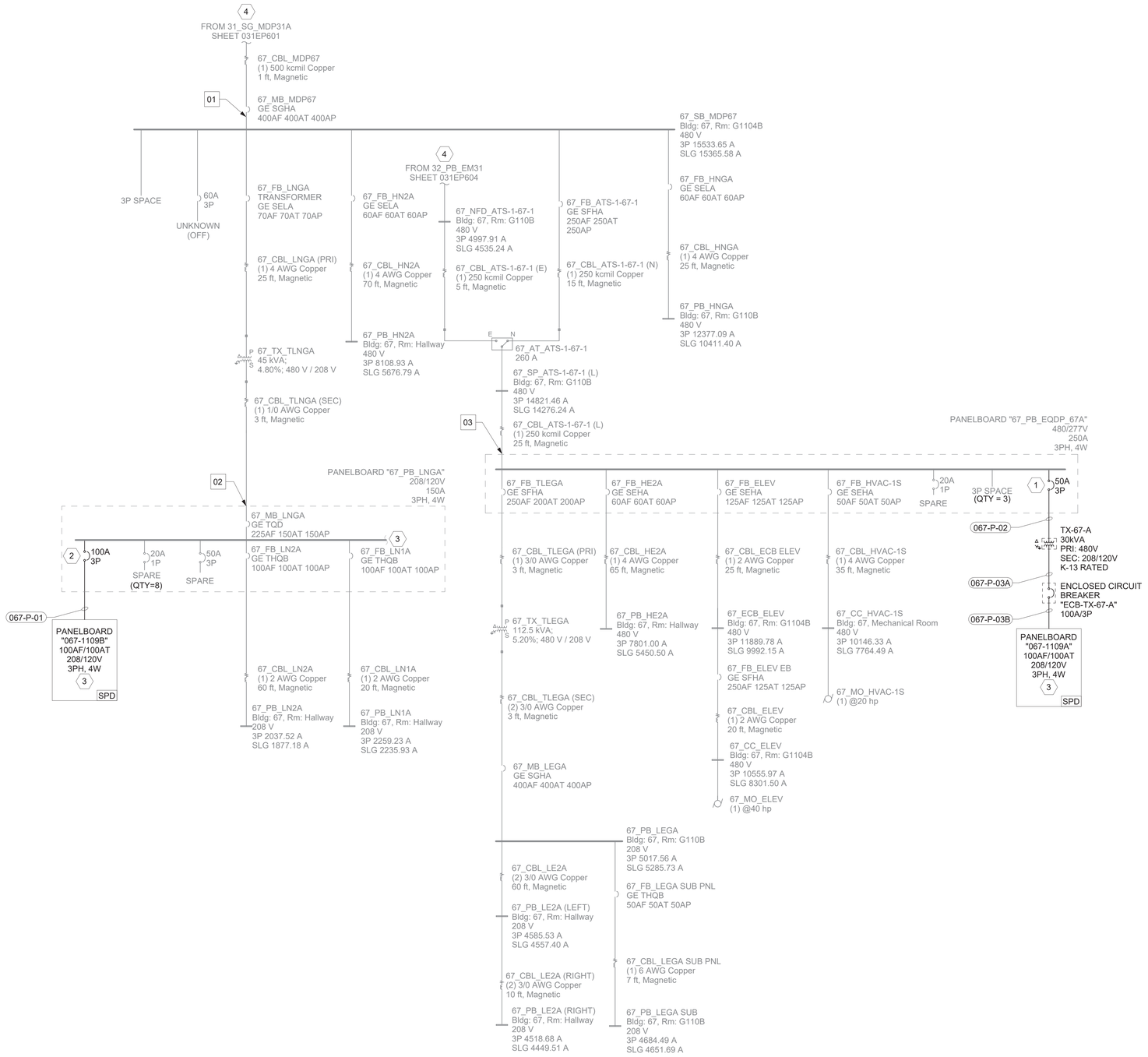
Autodesk Docs://405-22-700 VA VT White River Junction EHRM IU/VAWR_GENERAL SHEETS_EL_SDB.rvt



1 - BLDG 067 - ONE-LINE DIAGRAM
NTS

GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AS IT PERTAINS TO SUBJECT PROJECT. ANY DISCREPANCIES FOUND SHALL BE REPORTED TO THE ENGINEER.
2. CONTRACTOR SHALL PROVIDE ALL SHUTDOWN PLANS, TEMPORARY POWER PLANS, AND PHASING PLANS FOR VA REVIEW AND APPROVAL PRIOR TO COMMENCING WORK. ALL PLANS SHALL BE SUBMITTED FOR REVIEW 30 DAYS PRIOR TO IMPLEMENTATION.
3. SHORT CIRCUIT CALCULATIONS BASED ON VA PROVIDED AS-BUILTS.
4. NOT ALL ONE-LINE DIAGRAM DRAWING SHEETS MAY HAVE WORK SHOWN; ALL ONE-LINE DRAWINGS HAVE BEEN INCLUDED IN THIS DRAWING SET FOR REFERENCE PURPOSES.
5. ALL PROVIDED DIGITAL POWER METERS (DPM) SHALL BE INTEGRATED INTO EXISTING FACILTY BMS SYSTEM; PROVIDE ALL REQUIRED RACEWAYS, CABLING, AND INTEGRATION TO PROVIDE A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
6. CONTRACTOR SHALL PROVIDE CIRCUIT BREAKERS WITH AIC RATING EQUAL TO OR GREATER THAN HIGHEST FAULT CURRENT RATING INDICATED ON ASSOCIATED PANELBOARD SCHEDULE AND ONE-LINE DIAGRAM.
7. CIRCUIT BREAKERS SERVING TRANSFORMERS SHALL BE LOCKABLE.

KEY NOTES

1. UTILIZE EXISTING 3P SPACE TO PROVIDE CIRCUIT BREAKER AS SHOWN.
2. SALVAGE (3) 20A 1P CIRCUIT BREAKERS DESIGNATED AS SPARES TO VA. PROVIDE CIRCUIT BREAKER AS SHOWN.
3. REFERENCE BUILDING 067 PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
4. ADDITIONAL LOAD HAS BEEN ADDED TO FEEDER. REFERENCE CONTINUED ONE-LINE DIAGRAM AS INDICATED ON DRAWING AND ASSOCIATED PANEL SCHEDULE FOR ADDITIONAL LOADING INFORMATION.

LOAD DATA POINT NOTES

01 LOAD DATA POINT: EXISTING SWITCHBOARD "67 _SB_MDP67" MAIN. REFERENCE SWITCHBOARD "67 _SB_MDP67" METERING AND LOAD INFORMATION SCHEDULE ON SHEET 067EP701 FOR ADDITIONAL INFORMATION.

02 LOAD DATA POINT: EXISTING PANELBOARD "67_PB_LNGA" MAIN. REFERENCE PANELBOARD "67_PB_LNGA" METERING AND LOAD INFORMATION SCHEDULE ON SHEET 067EP701 FOR ADDITIONAL INFORMATION.

03 LOAD DATA POINT: EXISTING PANELBOARD "67_PB_EQDP_ 67A" MAIN. REFERENCE PANELBOARD "67_PB_EQDP_67A" METERING AND LOAD INFORMATION SCHEDULE ON SHEET 067EP701 FOR ADDITIONAL INFORMATION.

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

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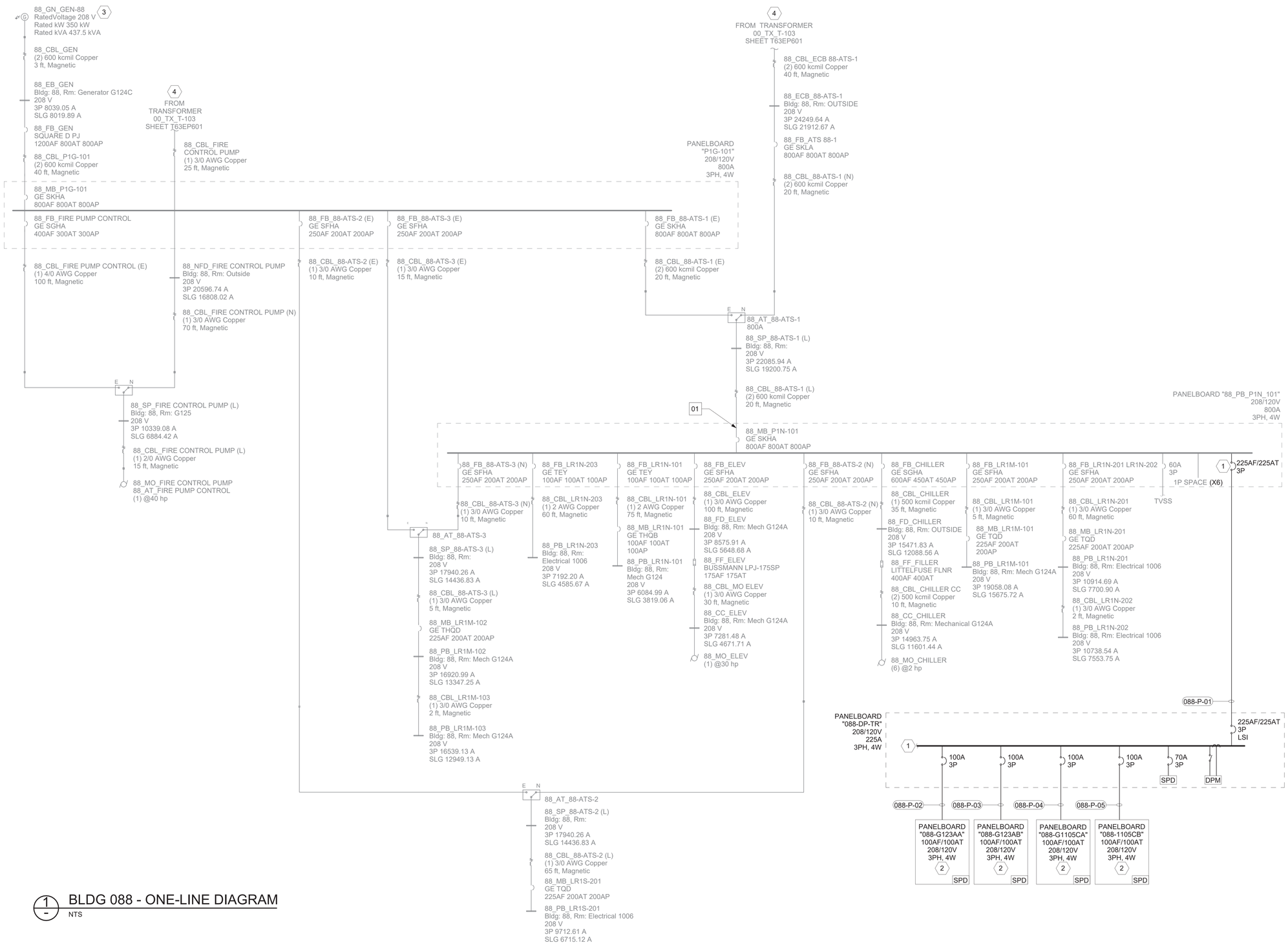
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	BLDG 067 - ONE-LINE DIAGRAM
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Project Number	405-22-700
Building Number	067
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Drawing Number	067EP601
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB



1 BLDG 088 - ONE-LINE DIAGRAM
NTS

GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AS IT PERTAINS TO SUBJECT PROJECT. ANY DISCREPANCIES FOUND SHALL BE REPORTED TO THE ENGINEER.
2. CONTRACTOR SHALL PROVIDE ALL SHUTDOWN PLANS, TEMPORARY POWER PLANS, AND PHASING PLANS FOR VA REVIEW AND APPROVAL PRIOR TO COMMENCING WORK. ALL PLANS SHALL BE SUBMITTED FOR REVIEW 30 DAYS PRIOR TO IMPLEMENTATION.
3. SHORT CIRCUIT CALCULATIONS BASED ON VA PROVIDED AS-BUILTS.
4. NOT ALL ONE-LINE DIAGRAM DRAWING SHEETS MAY HAVE WORK SHOWN; ALL ONE-LINE DRAWINGS HAVE BEEN INCLUDED IN THIS DRAWING SET FOR REFERENCE PURPOSES.
5. ALL PROVIDED DIGITAL POWER METERS (DPM) SHALL BE INTEGRATED INTO EXISTING FACILTY BMS SYSTEM; PROVIDE ALL REQUIRED RACEWAYS, CABLING, AND INTEGRATION TO PROVIDE A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
6. CONTRACTOR SHALL PROVIDE CIRCUIT BREAKERS WITH AIC RATING EQUAL TO OR GREATER THAN HIGHEST FAULT CURRENT RATING INDICATED ON ASSOCIATED PANELBOARD SCHEDULE AND ONE-LINE DIAGRAM.
7. CIRCUIT BREAKERS SERVING TRANSFORMERS SHALL BE LOCKABLE.

KEY NOTES

1. UTILIZE EXISTING 3P SPACE TO PROVIDE CIRCUIT BREAKER AS SHOWN.
2. REFERENCE BUILDING 088 PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
3. REFERENCE ASSOCIATED GENERATOR CAPACITY AND LOAD INFORMATION SCHEDULE ON SHEET EP701 FOR ADDITIONAL INFORMATION.
4. ADDITIONAL LOAD HAS BEEN ADDED TO FEEDER. REFERENCE CONTINUED ONE-LINE DIAGRAM AS INDICATED ON DRAWING AND ASSOCIATED PANEL SCHEDULE FOR ADDITIONAL LOADING INFORMATION.

LOAD DATA POINT NOTES

01 LOAD DATA POINT: EXISTING PANELBOARD "88_PB_P1N_101" MAIN. REFERENCE PANELBOARD "88_PB_P1N_101" METERING AND LOAD INFORMATION SCHEDULE ON SHEET 088EP701 FOR ADDITIONAL INFORMATION.

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

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SPEES DESIGN BUILD
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LOUIS R. LITALO
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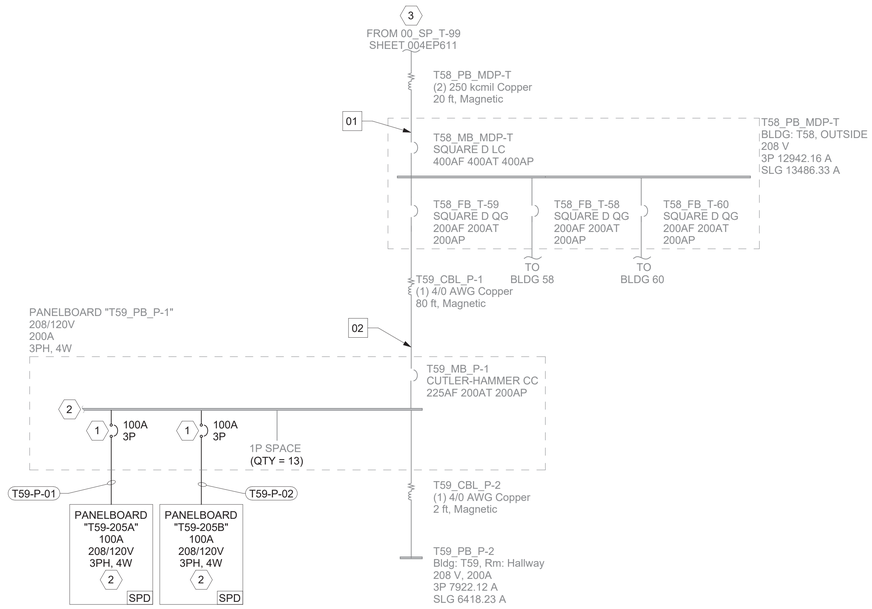
15681
1-16-26
REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	BLDG 088 - ONE-LINE DIAGRAM
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Project Number	405-22-700
Building Number	088
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Drawing Number	088EP601
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB



1 - BLDG T59 - ONE-LINE DIAGRAM

NTS

GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AS IT PERTAINS TO SUBJECT PROJECT. ANY DISCREPANCIES FOUND SHALL BE REPORTED TO THE ENGINEER.
2. CONTRACTOR SHALL PROVIDE ALL SHUTDOWN PLANS, TEMPORARY POWER PLANS, AND PHASING PLANS FOR VA REVIEW AND APPROVAL PRIOR TO COMMENCING WORK. ALL PLANS SHALL BE SUBMITTED FOR REVIEW 30 DAYS PRIOR TO IMPLEMENTATION.
3. SHORT CIRCUIT CALCULATIONS BASED ON VA PROVIDED AS-BUILTS.
4. NOT ALL ONE-LINE DIAGRAM DRAWING SHEETS MAY HAVE WORK SHOWN; ALL ONE-LINE DRAWINGS HAVE BEEN INCLUDED IN THIS DRAWING SET FOR REFERENCE PURPOSES.
5. ALL PROVIDED DIGITAL POWER METERS (DPM) SHALL BE INTEGRATED INTO EXISTING FACILTY BMS SYSTEM; PROVIDE ALL REQUIRED RACEWAYS, CABLING, AND INTEGRATION TO PROVIDE A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
6. CONTRACTOR SHALL PROVIDE CIRCUIT BREAKERS WITH AIC RATING EQUAL TO OR GREATER THAN HIGHEST FAULT CURRENT RATING INDICATED ON ASSOCIATED PANELBOARD SCHEDULE AND ONE-LINE DIAGRAM.
7. CIRCUIT BREAKERS SERVING TRANSFORMERS SHALL BE LOCKABLE.

KEY NOTES

1. UTILIZE EXISTING (3) 1P SPACE TO PROVIDE CIRCUIT BREAKER AS SHOWN.
2. REFERENCE BUILDING T59 PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
3. ADDITIONAL LOAD HAS BEEN ADDED TO FEEDER. REFERENCE CONTINUED ONE-LINE DIAGRAM AS INDICATED ON DRAWING AND ASSOCIATED PANEL SCHEDULE FOR ADDITIONAL LOADING INFORMATION.

LOAD DATA POINT NOTES

01 LOAD DATA POINT: EXISTING PANELBOARD "T58_PB_MDP-T" MAIN. REFERENCE PANELBOARD "T58_PB_MDP-T" METERING AND LOAD INFORMATION SCHEDULE ON SHEET T59EP701 FOR ADDITIONAL INFORMATION.

02 LOAD DATA POINT: EXISTING PANELBOARD "T59_PB_P-1" MAIN. REFERENCE PANELBOARD "T59_PB_P-1" METERING AND LOAD INFORMATION SCHEDULE ON SHEET T59EP701 FOR ADDITIONAL INFORMATION.

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

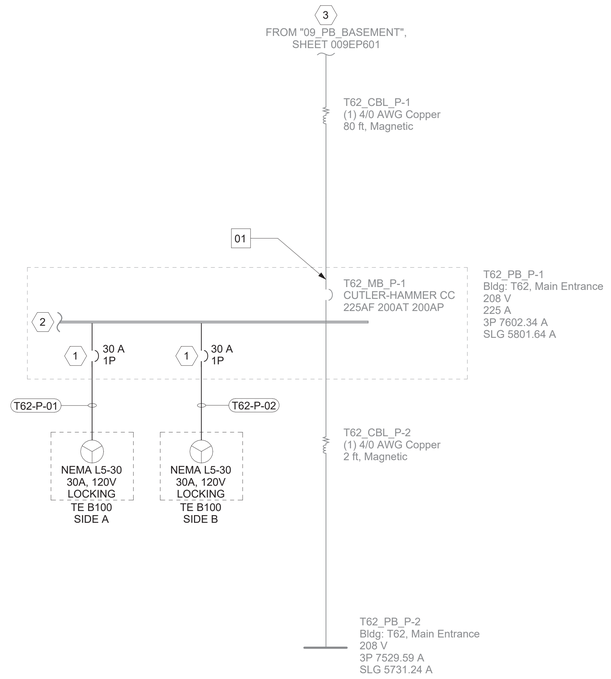
STAMP

LOUIS R. LITZAU — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	BLDG T59 - ONE-LINE DIAGRAM
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB
Project Number	405-22-700
Building Number	T59
Drawing Number	T59EP601



1 – BLDG T62 - ONE-LINE DIAGRAM
NTS

GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AS IT PERTAINS TO SUBJECT PROJECT. ANY DISCREPANCIES FOUND SHALL BE REPORTED TO THE ENGINEER.
2. CONTRACTOR SHALL PROVIDE ALL SHUTDOWN PLANS, TEMPORARY POWER PLANS, AND PHASING PLANS FOR VA REVIEW AND APPROVAL PRIOR TO COMMENCING WORK. ALL PLANS SHALL BE SUBMITTED FOR REVIEW 30 DAYS PRIOR TO IMPLEMENTATION.
3. SHORT CIRCUIT CALCULATIONS BASED ON VA PROVIDED AS-BUILTS.
4. NOT ALL ONE-LINE DIAGRAM DRAWING SHEETS MAY HAVE WORK SHOWN; ALL ONE-LINE DRAWINGS HAVE BEEN INCLUDED IN THIS DRAWING SET FOR REFERENCE PURPOSES.
5. ALL PROVIDED DIGITAL POWER METERS (DPM) SHALL BE INTEGRATED INTO EXISTING FACILTY BMS SYSTEM; PROVIDE ALL REQUIRED RACEWAYS, CABLING, AND INTEGRATION TO PROVIDE A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
6. CONTRACTOR SHALL PROVIDE CIRCUIT BREAKERS WITH AIC RATING EQUAL TO OR GREATER THAN HIGHEST FAULT CURRENT RATING INDICATED ON ASSOCIATED PANELBOARD SCHEDULE AND ONE-LINE DIAGRAM.
7. CIRCUIT BREAKERS SERVING TRANSFORMERS SHALL BE LOCKABLE.

KEY NOTES

1. UTILIZE EXISTING SPACES TO PROVIDE CIRCUIT BREAKER AS SHOWN.
2. REFERENCE BUILDING T62 PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
3. ADDITIONAL LOAD HAS BEEN ADDED TO FEEDER. REFERENCE CONTINUED ONE-LINE DIAGRAM AS INDICATED ON DRAWING AND ASSOCIATED PANEL SCHEDULE FOR ADDITIONAL LOADING INFORMATION.

LOAD DATA POINT NOTES

01 LOAD DATA POINT: EXISTING PANELBOARD "T62_PB_P-1" MAIN. REFERENCE PANELBOARD "T62_PB_P-1" METERING AND LOAD INFORMATION SCHEDULE ON SHEET T62EP701 FOR ADDITIONAL INFORMATION.

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

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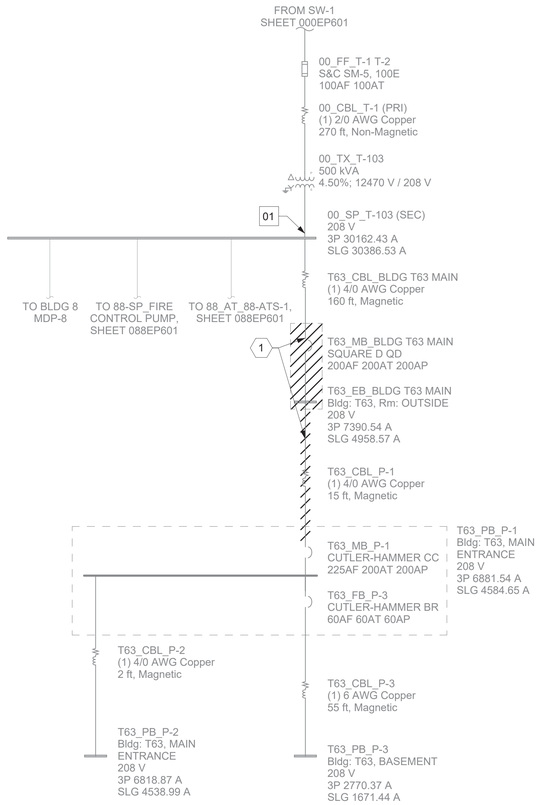
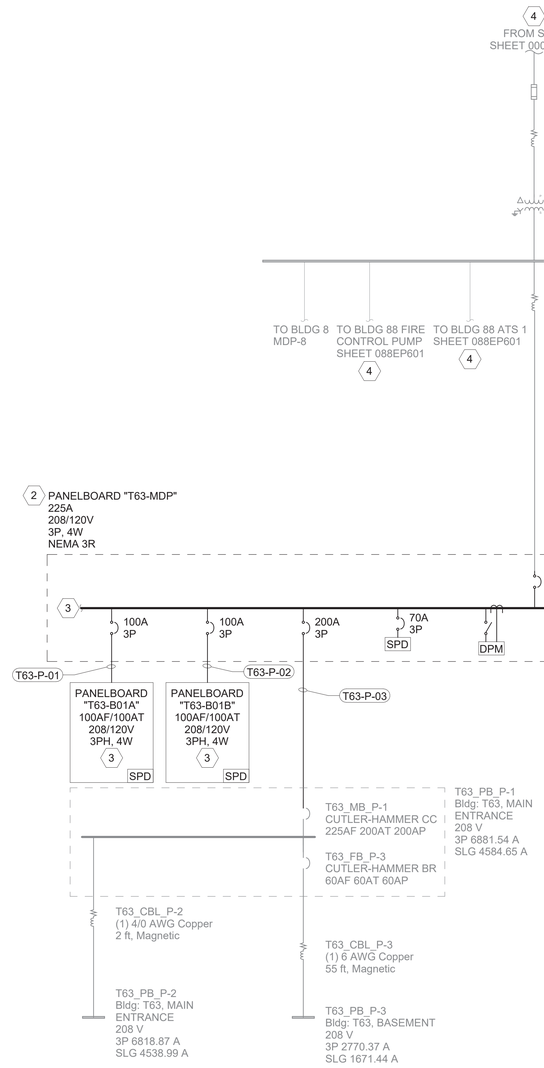
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	BLDG T62 - ONE-LINE DIAGRAM
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB
Project Number	405-22-700
Building Number	T62
Drawing Number	T62EP601



1 - BLDG T63 - ONE-LINE DIAGRAM - EXISTING
NTS



2 - BLDG T63 - ONE-LINE DIAGRAM - REVISED
NTS

GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AS IT PERTAINS TO SUBJECT PROJECT. ANY DISCREPANCIES FOUND SHALL BE REPORTED TO THE ENGINEER.
2. CONTRACTOR SHALL PROVIDE ALL SHUTDOWN PLANS, TEMPORARY POWER PLANS, AND PHASING PLANS FOR VA REVIEW AND APPROVAL PRIOR TO COMMENCING WORK. ALL PLANS SHALL BE SUBMITTED FOR REVIEW 30 DAYS PRIOR TO IMPLEMENTATION.
3. SHORT CIRCUIT CALCULATIONS BASED ON VA PROVIDED AS-BUILTS.
4. NOT ALL ONE-LINE DIAGRAM DRAWING SHEETS MAY HAVE WORK SHOWN; ALL ONE-LINE DRAWINGS HAVE BEEN INCLUDED IN THIS DRAWING SET FOR REFERENCE PURPOSES.
5. ALL PROVIDED DIGITAL POWER METERS (DPM) SHALL BE INTEGRATED INTO EXISTING FACILTY BMS SYSTEM; PROVIDE ALL REQUIRED RACEWAYS, CABLING, AND INTEGRATION TO PROVIDE A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
6. CONTRACTOR SHALL PROVIDE CIRCUIT BREAKERS WITH AIC RATING EQUAL TO OR GREATER THAN HIGHEST FAULT CURRENT RATING INDICATED ON ASSOCIATED PANELBOARD SCHEDULE AND ONE-LINE DIAGRAM.
7. CIRCUIT BREAKERS SERVING TRANSFORMERS SHALL BE LOCKABLE.

KEY NOTES

1. EXISTING CIRCUIT BREAKER SHALL BE DEMOLISHED. PRESERVE UPSTREAM FEEDER FOR REUSE. DEMOLISH CONDUIT AND WIRE DOWN STREAM TO PANEL "T63_PB_P-1". REFERENCE REVISED ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
2. PROVIDE PANELBOARD AS INDICATED. RETERMINATE TO EXISTING UPSTREAM FEEDER.
3. REFERENCE BUILDING T63 PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
4. ADDITIONAL LOAD HAS BEEN ADDED TO FEEDER. REFERENCE CONTINUED ONE-LINE DIAGRAM AS INDICATED ON DRAWING AND ASSOCIATED PANEL SCHEDULE FOR ADDITIONAL LOADING INFORMATION.

LOAD DATA POINT NOTES

01 LOAD DATA POINT: EXISTING TAP "00_SP_T-103" MAIN FEED. REFERENCE TAP "00_SP_T-103" METERING AND LOAD INFORMATION SCHEDULE ON SHEET T63EP701 FOR ADDITIONAL INFORMATION.

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

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1-16-26
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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG T63 - ONE-LINE DIAGRAMS	Phase: 100% CONSTRUCTION DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER	Project Number: 405-22-700
Approved:	FULLY SPRINKLERED	Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009	Building Number: T63
		Issue Date: 01/16/2026 / Checked: NVP/DCW / Drawn: RTS/KDB	Drawing Number: T63EP601

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	LUMENS / COLOR TEMP	DRIVER	WATTS	VOLTS	MOUNTING	MFGR	CATALOG #	LENS/DIFFUSER	FINISH	COMMENTS
L3/L3E	4' STRIP, SUSPENDED, LED	3210/4000K	ELECTRONIC, 0-10V	22.5	120-277V	SUSPENDED	DISCOVERY OR APPROVED EQUAL	DSC4-3LSE-U-40-FCLGR	FROSTED CURVED GLARE REDUCING LENS	WHITE	-
L5/L5E	4' STRIP, SUSPENDED, LED	4562/4000K	ELECTRONIC, 0-10V	33.4	120-277V	SUSPENDED	DISCOVERY OR APPROVED EQUAL	DSC4-4LSE-U-40-FCLGR	FROSTED CURVED GLARE REDUCING LENS	WHITE	-
L7/L7E	4' STRIP, SUSPENDED, LED	6263/4000K	ELECTRONIC, 0-10V	42	120-277V	CEILING	DISCOVERY OR APPROVED EQUAL	DSC4-6LSE-U-40-FCLGR	FROSTED CURVED GLARE REDUCING LENS	WHITE	-
X	EXIT SIGN	N/A	ELECTRONIC	3	120/277V	SURFACE	MULE, OR APPROVED EQUAL	MDBURBA	-	BRUSHED ALUMINUM	-

GENERAL NOTES:
1. PRIOR TO LUMINAIRE PROCUREMENT, CONTRACTOR SHALL PROVIDE LIGHTING LAYOUT WITH PROPOSED LUMINAIRES AND INDICATE POINT-BY-POINT PHOTOMETRICS FOR ENGINEER REVIEW DURING SUBMITTAL REVIEW PROCESS.
2. ALL LUMINAIRES WITH AN 'E' SUFFIX SHALL BE PROVIDED WITH EMERGENCY POWER VIA EMERGENCY LIGHTING UL-924 TRANSFER SWITCH CIRCUITED TO EMERGENCY PANELBOARD. PROVIDE RACEWAYS AND WIRING TO INTERFACE WITH FIRE ALARM SYSTEM AS REQUIRED. LOCATE TRANSFER SWITCH LOCAL TO CONTROLLED LUMINAIRE. DURING NORMAL POWER CONDITIONS, CONTROL AND SWITCHING OF LUMINAIRE SHALL OPERATE NORMALLY; UPON LOSS OF POWER, TRANSFER SWITCH SHALL BYPASS LIGHTING CONTROL AND PROVIDE FULL, NON-DIMMED, EMERGENCY LIGHTING. PROVIDE ADDITIONAL SWITCH CONDUCTORS AS REQUIRED. WHERE BUILDING DOES NOT HAVE EMERGENCY POWER, PROVIDE EMERGENCY BATTERY PACK INTEGRAL TO FIXTURE.

TR LUMINAIRE MOUNTING SCHEDULE

BUILDING NO.	ROOM NAME	SHEET NUMBER	CEILING HEIGHT(FT)	MOUNTING HEIGHT	NOTES
1	10A	001EP400	9' 5"	9' 5"	1,3
	113	001EP401	12' 3"	9' 6"	1,2
	201	001EP402			
	333	001EP403a	11' 3"	9' 6"	1,2
	336A-336F	001EP403g	10'	9' 6"	1,2
2	107	002EP401	11' 6"	9' 6"	1,2
4	105	004EP401	8' 7"	8' 7"	1,3
6	B1A	006EP400			
7	B3	007EP400	8' 0"	8' 0"	1,3
9	104A	009EP401	8' 6"	8' 6"	1,3
28	G31A	028EP400G	10' 0"	9' 6"	1,2
	115A	028EP401	11' 0"	9' 6"	1,2
	219	028EP402			
31	B19	031EP400B	9' 0"	9' 0"	1,3
	G12	031EP400G	10' 0"	9' 6"	1,2
	115	031EP401			
	226	031EP402	10' 0"	9' 6"	1,2
37	200A	037EP402			
39	G05	039EP400			
	132	039EP401	10' 0"	9' 6"	1,2
	4	039EP402			
	386	039EP403			
44	G-115	044EP400	11' 0"	9' 6"	1,2
	1-118	044EP401			
	2-114B	044EP402	11' 0"	9' 6"	1,2
65	119	065EP401	10' 0"	9' 6"	1,2
66	1007	066EP401			
67	1109	067EP401	10' 0"	9' 6"	1,2
88	G123A	088EP400			
	1105C	088EP401	11' 0"	9' 6"	1,2
T59	205	T59402	10' 0"	9' 6"	1,2
T63	B01	T63EP400	7' 10"	7' 10"	1,3

Notes:
1. CONTRACTOR SHALL COORDINATE LUMINAIRE MOUNTING WITH ELECTRICAL, MECHANICAL, TELECOM, EQUIPMENT, AND RACEWAYS AS REQUIRED.
2. LUMINAIRE SHALL BE SUSPENDED MOUNTED. UTILIZE ALUMINUM CHAIN AND FASTENING HARDWARE, OR EQUAL, AS REQUIRED.
3. PROVIDE ALL HARDWARE AND FASTENING EQUIPMENT AS REQUIRED TO MOUNT TO CEILING.

PULLBOX SCHEDULE

TAG NAME	SIZE (MINIMUM)	TYPE	NOTES
PB-DC-01	36"H x 48"W x 12"D	NEMA 3R	1,2
PB-DC-02	18"H x 48"W x 18"D	NEMA 1	1,2

NOTES:
1. PULLBOX SHALL BE SCREW-COVER STYLE, GRAY, MILD STEEL
2. COORDINATE FINAL INSTALLATIONS WITH EXISTING CONDITIONS AND VA AS REQUIRED.

GENERATOR CAPACITY AND LOAD INFORMATION SCHEDULE

GENERATOR NAME	GENERATOR VOLTAGE (V)	GENERATOR PHASE	GENERATOR RATING (KW)	GENERATOR RATING (A)	TEST REPORT DATE	PEAK AMP READING	ADDED LOAD (VA)	ADDED LOAD (A) (NOTE 9)	TOTAL DEMAND LOAD (A)	ESTIMATED GENERATOR PERCENT LOADING (%)	NOTES
GENERATOR "40_GN_B-40"	480	3	550	827	3/17/2023	294	410533	494	788	95.3%	1, 7, 8
GENERATOR "02_GN_GEN2-B2"	208	3	300	1041	2/2/2024	212	31348	87	299	28.7%	2, 7, 8
GENERATOR "32_GN_GEN-32B"	480	3	600	902	7/7/2023	398	52965	64	462	51.2%	3, 7, 8
GENERATOR "32_GN_GEN-32"	12470	3	2000	116	7/7/2023	50	781283	36	86	74.4%	6, 7, 8
GENERATOR "45_GN_GEN-B45"	480	3	750	1128	6/7/2023	453	70541	85	538	47.7%	4, 7, 8
GENERATOR "88_GN_GEN-88"	208	3	350	1214	5/12/2023	214	21915	61	275	22.6%	5, 7, 8

NOTES:
1. ADDED LOAD IS COMPRISED OF DATA CENTER, BUILDING 01 AND BUILDING 39.
2. ADDED LOAD IS COMPRISED OF BUILDINGS 02 AND 37.
3. ADDED LOAD IS COMPRISED OF BUILDINGS 31.
4. ADDED LOAD IS COMPRISED OF BUILDINGS 28 AND 44.
5. ADDED LOAD IS COMPRISED OF BUILDING 88.
6. ADDED LOAD IS COMPRISED OF BUILDING 001, 002, 004, 006, 009, 028, 031, 037, 039, 044, 065, 066, 067, AND T63.
7. ALL TEST REPORT DATA WAS CONDUCTED AND PROVIDED FROM VA.
8. ALL GENERATORS ARE STANDBY RATED. GENERATOR % LOADING SHALL BE MONITORED TO ACKNOWLEDGE WHEN GENERATOR LOADING IS OVER 70%; OPERATIONAL STAFF SHALL MAKE OPERATIONAL CHANGES AS REQUIRED TO ENSURE GENERATOR LOADING DOES NOT EXCEED ISO 8528-1 RATINGS.
9. REFERENCE PANEL SCHEDULES FOR ADDED DEMAND LOAD INFORMATION. ADDED LOAD IS ASSUMED TO BE 1.0 PF.

MECHANICAL EQUIPMENT SCHEDULE (NOTE 1,3)

TAG	BUILDING	ROOM NUMBER SERVED	DESCRIPTION	VOLTS	PHASE	VA	HP	AMPS	MOCP (A)	NOTES
001-VRF-01-10A	001	10A	DUCTLESS SPLIT COOLING UNIT (INDOOR)	208	1	150	-	0.7	15	(2)
001-VRF-02-113		113	DUCTLESS SPLIT COOLING UNIT (INDOOR)	208	1	150	-	0.7	15	(2)
001-VRF-03-201		201	DUCTLESS SPLIT COOLING UNIT (INDOOR)	208	1	87	-	0.4	15	(2)
001-VRF-04-201		201	DUCTLESS SPLIT COOLING UNIT (INDOOR)	208	1	87	-	0.4	15	(2)
001-VRF-05-331		331	DUCTLESS SPLIT COOLING UNIT (INDOOR)	208	1	87	-	0.4	15	(2)
001-VRF-06-333		333	DUCTLESS SPLIT COOLING UNIT (INDOOR)	208	1	4160	-	20.0	40	(2)
001-VRF-07-336A		336A	DUCTLESS SPLIT COOLING UNIT (INDOOR)	208	1	150	-	0.7	15	(2)
001-CU-01-10A		10A	DUCTLESS SPLIT COOLING UNIT (OUTDOOR)	208	1	5158	-	24.8	40	(2)
001-CU-02-113		113	DUCTLESS SPLIT COOLING UNIT (OUTDOOR)	208	1	5158	-	24.8	40	(2)
001-CU-03-201		201	DUCTLESS SPLIT COOLING UNIT (OUTDOOR)	208	1	5158	-	24.8	40	(2)
001-CU-04-331		331	DUCTLESS SPLIT COOLING UNIT (OUTDOOR)	208	1	5158	-	24.8	40	(2)
001-CU-05-333/336A		333/336A	DUCTLESS SPLIT COOLING UNIT (OUTDOOR)	208	1	5158	-	24.8	40	(2)
002-VRF-01-107	002	107	DUCTLESS SPLIT COOLING UNIT (INDOOR)	208	1	87	-	0.4	15	(2)
002-CU-01-107		107	DUCTLESS SPLIT COOLING UNIT (OUTDOOR)	208	1	4393	-	21.1	40	(2)
004-VRF-01-105	004	105	DUCTLESS SPLIT COOLING UNIT (INDOOR)	208	1	87	-	0.4	15	(2)
004-CU-01-105		105	DUCTLESS SPLIT COOLING UNIT (OUTDOOR)	208	1	4393	-	21.1	30	(2)
006-VRF-01-B1A	006	B1A	DUCTLESS SPLIT COOLING UNIT (INDOOR)	208	1	87	-	0.4	15	(2)
006-CU-01-B1A		B1A	DUCTLESS SPLIT COOLING UNIT (OUTDOOR)	208	1	3528	-	17.0	30	(2)
007-VRF-01-B3	007	B3	DUCTLESS SPLIT COOLING UNIT (INDOOR)	208	1	87	-	0.4	15	(2)
007-CU-01-B3		B3	DUCTLESS SPLIT COOLING UNIT (OUTDOOR)	208	1	4393	-	21.1	30	(2)
009-VRF-01-104A	009	104A	DUCTLESS SPLIT COOLING UNIT (INDOOR)	208	1	87	-	0.4	15	(2)
009-CU-01-104A		104A	DUCTLESS SPLIT COOLING UNIT (OUTDOOR)	208	1	3528	-	17.0	30	(2)
028-VRF-01-G31A	028	G31A	DUCTLESS SPLIT COOLING UNIT (INDOOR)	208	1	150	-	0.7	15	(2)
028-VRF-02-115A		115A	DUCTLESS SPLIT COOLING UNIT (INDOOR)	208	1	87	-	0.4	15	(2)
028-VRF-03-219		219	DUCTLESS SPLIT COOLING UNIT (INDOOR)	208	1	150	-	0.7	15	(2)
028-CU-01-G31A		G31A	DUCTLESS SPLIT COOLING UNIT (OUTDOOR)	208	1	5158	-	24.8	40	(2)
028-CU-02-115A		115A	DUCTLESS SPLIT COOLING UNIT (OUTDOOR)	208	1	4393	-	21.1	30	(2)
028-CU-03-219		219	DUCTLESS SPLIT COOLING UNIT (OUTDOOR)	208	1	5158	-	24.8	40	(2)
031-VRF-01-B-19B	031	B-19B	DUCTLESS SPLIT COOLING UNIT (INDOOR)	208	1	150	-	0.7	15	(2)
031-VRF-02-B-19		B-19	DUCTLESS SPLIT COOLING UNIT (INDOOR)	208	1	150	-	0.7	15	(2)
031-VRF-03-B-18A		B-18A	DUCTLESS SPLIT COOLING UNIT (INDOOR)	208	1	87	-	0.4	15	(2)
031-VRF-04-B-18A		B-18A	DUCTLESS SPLIT COOLING UNIT (INDOOR)	208	1	150	-	0.7	15	(2)
031-VRF-05-G12		G12	DUCTLESS SPLIT COOLING UNIT (INDOOR)	208	1	87	-	0.4	15	(2)
031-VRF-06-226		226	DUCTLESS SPLIT COOLING UNIT (INDOOR)	208	1	87	-	0.4	15	(2)
031-VRF-07-226		226	DUCTLESS SPLIT COOLING UNIT (INDOOR)	208	1	87	-	0.4	15	(2)
031-CU-01-B-19/19B		B-19 / B-19B	DUCTLESS SPLIT COOLING UNIT (OUTDOOR)	208	1	5475	-	26.3	40	(2)
031-CU-02-B-18A		B-18A	DUCTLESS SPLIT COOLING UNIT (OUTDOOR)	208	1	5158	-	24.8	40	(2)
031-CU-03-G12		G12	DUCTLESS SPLIT COOLING UNIT (OUTDOOR)	208	1	5158	-	24.8	40	(2)
031-CU-04-226		226	DUCTLESS SPLIT COOLING UNIT (OUTDOOR)	208	1	5158	-	24.8	40	(2)
037-VRF-01-200A	037	200A	DUCTLESS SPLIT COOLING UNIT (INDOOR)	208	1	87	-	0.4	15	(2)
037-CU-01-200A		200A	DUCTLESS SPLIT COOLING UNIT (OUTDOOR)	208	1	4393	-	21.1	40	(2)
039-VRF-01-G05	039	G05	DUCTLESS SPLIT COOLING UNIT (INDOOR)	208	1	87	-	0.4	15	(2)
039-VRF-02-132		132	DUCTLESS SPLIT COOLING UNIT (INDOOR)	208	1	150	-	0.7	15	(2)
039-VRF-03-200A		200A	DUCTLESS SPLIT COOLING UNIT (INDOOR)	208	1	150	-	0.7	15	(2)
039-VRF-04-387		387	DUCTLESS SPLIT COOLING UNIT (INDOOR)	208	1	150	-	0.7	15	(2)
039-CU-01-G05		G05	DUCTLESS SPLIT COOLING UNIT (OUTDOOR)	208	1	4393	-	21.1	40	(2)
039-CU-02-132		132	DUCTLESS SPLIT COOLING UNIT (OUTDOOR)	208	1	5158	-	24.8	40	(2)
039-CU-03-200A		200A	DUCTLESS SPLIT COOLING UNIT (OUTDOOR)	208	1	5158	-	24.8	40	(2)
039-CU-04-387		387	DUCTLESS SPLIT COOLING UNIT (OUTDOOR)	208	1	5158	-	24.8	40	(2)
044-VRF-01-G-115	044	115	DUCTLESS SPLIT COOLING UNIT (INDOOR)	208	1	87	-	0.4	15	(2)
044-VRF-02-1-118		118	DUCTLESS SPLIT COOLING UNIT (INDOOR)	208	1	87	-	0.4	15	(2)
044-VRF-03-2-114B		114B	DUCTLESS SPLIT COOLING UNIT (INDOOR)	208	1	150	-	0.7	15	(2)
044-CU-01-G-115		115	DUCTLESS SPLIT COOLING UNIT (OUTDOOR)	208	1	4393	-	21.1	40	(2)
044-CU-02-1-118		118	DUCTLESS SPLIT COOLING UNIT (OUTDOOR)	208	1	4393	-	21.1	40	(2)
044-CU-03-2-114B		114B	DUCTLESS SPLIT COOLING UNIT (OUTDOOR)	208	1	5158	-	24.8	40	(2)
065-VRF-01-119	065	119	DUCTLESS SPLIT COOLING UNIT (INDOOR)	208	1	150	-	0.7	15	(2)
065-CU-01-119		119	DUCTLESS SPLIT COOLING UNIT (OUTDOOR)	208	1	2163	-	10.4	40	(2)
066-VRF-01-1006	066	1006B	DUCTLESS SPLIT COOLING UNIT (INDOOR)	208	1	1606	-	7.7	15	(2)
066-CU-01-1006		1006B	DUCTLESS SPLIT COOLING UNIT (OUTDOOR)	208	1	2230	-	10.7	15	(2)
067-VRF-01-1109	067	1109	DUCTLESS SPLIT COOLING UNIT (INDOOR)	208	1	87	-	0.4	15	(2)
067-CU-01-1109		1109	DUCTLESS SPLIT COOLING UNIT (OUTDOOR)	208	1	4393	-	21.1	30	(2)
088-FCU-01-G123A	088	G123A	TWO-PIPE FAN COIL UNIT (INDOOR)	115	1	558	1/2	4.9	15	(2)
088-FCU-01-1105C		1105C	TWO-PIPE FAN COIL UNIT (INDOOR)	115	1	558	1/2	4.9	15	(2)
088-COP-01-G123A		G123A	CONDENSATE PUMP	115	1	115	1/50	1.0	15	(2)
088-COP-02-1105C		1105C	CONDENSATE PUMP	115	1	115	1/50	1.0	15	(2)
T59-VRF-01-205	T59	205	DUCTLESS SPLIT COOLING UNIT (INDOOR)	208	1	87	-	0.4	15	(2)
T59-CU-01-205		205	DUCTLESS SPLIT COOLING UNIT (OUTDOOR)	208	1	4393	-	21.1	30	(2)
T62-VRF-01-B100	T62	B100	DUCTLESS SPLIT COOLING UNIT (INDOOR)	208	1	87	-	0.4	15	(2)
T62-CU-01-B100		B100	DUCTLESS SPLIT COOLING UNIT (OUTDOOR)	208	1	4393	-	21.1	30	(2)
T63-VRF-01-B01	T63	B01	DUCTLESS SPLIT COOLING UNIT (INDOOR)	208	1	87	-	0.4	15	(2)
T63-CU-01-B01		B01	DUCTLESS SPLIT COOLING UNIT (OUTDOOR)	208	1	4393	-	21.1	30	(2)
001-CRAC-01-336A	001 - DATA CENTER	336A	CRAC UNIT	460	3	16254	-	20.4	35	(2)
001-CRAC-02-336A		336A	CRAC UNIT	460	3	16254	-	20.4	35	(2)
001-CRAC-03-336A		336A	CRAC UNIT	460	3	13385	-	16.8	30	(2)
001-CRAC-04-336A		336A	CRAC UNIT	460	3	13385	-	16.8	30	(2)
001-CRAC-05-336A		336A	CRAC UNIT	460	3	16254	-	20.4	35	(2)
001-CRAC-06-336A		336A	CRAC UNIT	460	3	13385	-	16.8	30	(2)
001-CRAC-07-336A		336A	CRAC UNIT	460	3	16254	-	20.4	35	(2)
001-CRAC-08-336A		336A	CRAC UNIT	460	3	13385	-	16.8	30	(2)
001-CRAC-09-336A		336A	CRAC UNIT	460	3	13385	-	16.8	30	(2)
001-CRAC-10-336A		336A	CRAC UNIT	460	3	13385	-	16.8	30	(2)
001-BS-01-ATTIC		336A	BOOSTER PUMP	208	1	582		2.8	15	(2)
001-FSD-01-336A		336A	FIRE AND SMOKE DAMPER	120	1	360	-	3.0	15	(2)
001-RO-01-NRNA		336A	PACKAGED REVERSE OSMOSIS	120	1	1656	-	13.8	30	(2)
31-COND-01-DC	031 - DATA CENTER	ROOF	AIR-COOLED CRAC CONDENSING UNIT	460	3	1115	-	1.4	15	(2)
31-COND-02-DC		ROOF	AIR-COOLED CRAC CONDENSING UNIT	460	3	1115	-	1.4	15	(2)
31-COND-03-DC		ROOF	AIR-COOLED CRAC CONDENSING UNIT	460	3	1115	-	1.4	15	(2)
31-COND-04-DC		ROOF	AIR-COOLED CRAC CONDENSING UNIT	460	3	1115	-	1.4	15	(2)
31-COND-05-DC		ROOF	AIR-COOLED CRAC CONDENSING UNIT	460	3	1115	-	1.4	15	(2)
31-COND-06-DC		ROOF	AIR-COOLED CRAC CONDENSING UNIT	460	3	1115	-	1.4	15	(2)
31-COND-07-DC		ROOF	AIR-COOLED CRAC CONDENSING UNIT	460	3	1115	-	1.4	15	(2)
31-COND-08-DC		ROOF	AIR-COOLED CRAC CONDENSING UNIT	460	3	1115	-	1.4	15	(2)
31-COND-09-DC		ROOF	AIR-COOLED CRAC CONDENSING UNIT	460	3	1115	-	1.4	15	(2)
31-COND-10-DC		ROOF	AIR-COOLED CRAC CONDENSING UNIT	460	3	1115	-	1.4	15	(2)

NOTES:
(1) IF INSTALLED UNITS DEVIATE FROM THE BASIS OF DESIGN, CONTRACTOR IS RESPONSIBLE FOR DETERMINING AND EXECUTING ANY CHANGE TO RACEWAYS, CONDUCTORS, DISCONNECTS, STARTERS, OVERCURRENT PROTECTION, AND ANY OTHER REQUIRED INSTALLATION DEVICES.
(2) EQUIPMENT SHALL BE FED FROM A HACR BREAKER UNLESS OTHERWISE NOTED BY MANUFACTURER'S REQUIREMENTS.
(3) CONTRACTOR SHALL BE RESPONSIBLE FOR ELECTRICAL LOAD INCREASES FROM SUBMISISON OF NON-BASIS OF DESIGN MECHANICAL EQUIPMENT; CONTRACTOR SHALL PROVIDE THE FOLLOWING AT NO COST TO THE OWNER:
-REVISED ELECTRICAL DISTRIBUTION EQUIPMENT (I.E.: PANELBOARDS, SWITCHBOARDS, DISCONNECTS, ETC.).
-REVISED MOCPs PER MANUFACTURER'S REQUIREMENTS.
-REVISED RACEWAY AND CONDUCTORS (SIZED PER NEC).
-REDLINE ALL AFFECTED PANELBOARD SCHEDULES ON DRAWINGS TO SHOW REVISED MOCPs, QUANTITY OF CIRCUITS, AND EQUIPMENT LOADING (AT A MINIMUM).

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
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23830 PACIFIC HIGHWAY S. SUITE 300
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STAMP

LOUIS R. LITZAO — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL SCHEDULES

Phase: 100% CONSTRUCTION DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER

Project Number: 405-22-700

Building Number: -

Approved:

FULLY SPRINKLERED

Location: VA VT WHITE RIVER JUNCTION
163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009

Drawing Number: EP701

Issue Date: 01/16/2026 | Checked: NVP/DCW | Drawn: RTS/KDB

TRANSFORMER "00_TX_T-2" CALCULATED LOAD INFORMATION SCHEDULE				
ELECTRICAL RATINGS: 1000kVA, PRI 12470 V, SEC 480 V, 3PH				
LOAD TYPE	DEMAND AMPS (A)	SYSTEM VOLTAGE	DEMAND VA	NOTES
EXISTING LOAD				
PEAK DEMAND LOAD PANELBOARD "40_SB_MDP-N-40"	205	480	170018	1
25% OF PEAK DEMAND (NEC 220.87)	-	-	42505	
PANELBOARD "01_PB_DPX"	686	480	570330	2
ADDED LOAD				
PANELBOARD "40_SB_MDP-N-40"				
PANELBOARD "DC-DP-N"	-	-	294389	3
REMOVED LOAD				
BUILDING 001 - RACK REDUCTION (-2.5kVA EA. RACK @ 9 RACKS TOTAL)	-	-	-22500	4
BUILDING 001 - EXISTING TELECOM RACKS (-1.5kVA EA. RACK @ 11 RACKS TOTAL)	-	-	-13500	5
50kW POWER MODULE EXPANSION	-	-	-50000	6
		TOTAL DEMAND VA	991242	
		TOTAL AMPERAGE	1192	
		% TOTAL LOAD	99%	7

NOTES:
1. PEAK DEMAND IS PROVIDED FROM 30-DAY METERING STUDY. PEAK DEMAND RECORDED FROM 06/10/2025.
2. EXISTING LOAD IS CALCULATED FROM ON SITE INVESTIGATION.
3. ADDED LOAD CONSISTS OF GENERAL RECEPTACLES, HVAC, LIGHTING, AND UPS BUSWAY. REDUNDATN LOAD IS NOT INCLUDED IN POWER CALCULATIONS AS LOADS DO NOT OPERATE AT FULL LOAD SIMULTANEOUSLY.
4. PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021), TR RACK LOADS ARE DE-RATED FROM 5000VA TO 2500VA AT SUBSTATION LEVEL.
5. EXISTING DATA RACKS ARE ESTIMATED TO BE 1500VA EACH.
6. 50kW POWER MODULE EXPANSION IS NOT INCLUDED IN LOAD CALCULATIONS.
7. TOTAL PERCENT LOADING IS COMPARED TO TRANSFORMER RATING OF 1000kVA.

SWITCHBOARD "40_SB_MDP-N-40" METERING AND LOAD INFORMATION SCHEDULE				
ELECTRICAL RATINGS: 1200A BUS, MLO, 480/277V, 3PH				
LOAD TYPE	DEMAND AMPS (A)	SYSTEM VOLTAGE	DEMAND VA	NOTES
PEAK DEMAND LOAD	205	480	170018	1
25% OF PEAK DEMAND (NEC 220.87)	-	-	42505	
ADDED DEMAND LOAD				
PANELBOARD "DC-DP-N"	-	-	294389	2
REMOVED LOAD				
BUILDING 001 - RACK REDUCTION (-2.5kVA EA. RACK @ 9 RACKS TOTAL)	-	-	-22500	3
EXISTING TELECOM RACKS (-1.5kVA EA. RACK @ 11 RACKS TOTAL)	-	-	-16500	4
50kW POWER MODULE EXPANSION	-	-	-50000	5
		TOTAL DEMAND VA	417912	
		TOTAL AMPERAGE	503	
		% TOTAL LOAD	63%	6

NOTES:
1. PEAK DEMAND IS PROVIDED FROM 30-DAY METERING STUDY. PEAK DEMAND RECORDED FROM 06/10/2025.
2. ADDED LOAD CONSISTS OF GENERAL RECEPTACLES, HVAC, LIGHTING, AND UPS BUSWAY. REDUNDATN LOAD IS NOT INCLUDED IN POWER CALCULATIONS AS LOADS DO NOT OPERATE AT FULL LOAD SIMULTANEOUSLY.
3. PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021), TR RACK LOADS ARE DE-RATED FROM 5000VA TO 2500VA AT SUBSTATION LEVEL.
4. EXISTING DATA RACKS ARE ESTIMATED TO BE 1500VA EACH.
5. 50kW POWER MODULE EXPANSION IS NOT INCLUDED IN LOAD CALCULATIONS.
6. TOTAL PERCENT LOADING IS COMPARED TO UPSTREAM FUSIBLE DISCONNECT RATING OF 800A.

SWITCHBOARD "40_SB_MDP-N-40" (NOTE 1)

Location: BLDG 01, RM 1A-112 **Volts:** 480/277V **A.I.C Rating:** 22K
Supply From: 00_TX_T-2 **Phases:** 3 **Bus Rating:** 1200A
Mounting: Surface **Wires** 4 **Main Circuit Breaker:** 1200AF / 1200 AT / LSI
Enclosure: Type 1

CKT	CIRCUIT DESCRIPTION	# OF POLES	CIRCUIT BREAKER SIZE	VA PER PHASE A	B	C	COMMENTS
1	PANELBOARD "NP-PHEQ	3	400AF / 400AT	0	0	0	EXISTING LOAD
2	CHILLER CH2	3	225AF / 175AT	0	0	0	EXISTING LOAD
3	MRI RM1A-103A	3	300AF / 300AT	0	0	0	EXISTING LOAD
4	UPS_01	3	150AF / 150AT	0	0	0	EXISTING LOAD
5	SPARE	3	225AF / 200AT	0	0	0	
6	PANELBOARD "DC-MDP-N"	3	600AF / 600AT	98994	94275	96726	
7	SURGE PORTECTION DEVICE	3	90 A	100	100	100	
8	DIGITAL POWER METER DISCONNECT	3	20A	100	100	100	
9	SPARE	3	225AF / 225AT	0	0	0	
10	SPARE	3	225AF / 225AT	0	0	0	
			Total Load:	99194	94475	96926	
			Total Amps:	358	350	350	

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	16254	125.00%	20317	Total Conn. Power Load:	290594 VA
Other	265813	100.00%	265813	Total Est. Power Demand:	294990 VA
Receptacle	7200	100.00%	7200	Total Conn. Amperage:	350 A
Lighting	1328	125.00%	1660	Total Est. Amperage Demand:	355 A

Notes:
1. SCHEDULE IS SHOWN FOR BRANCH / FEEDER CIRCUIT SIZING ONLY. FOR OVERALL SWITCHBOARD LOADING INFORMATION REFERENCE SWITCHBOARD "40_SB_MDP-N-40" METERING AND LOAD INFORMATION SCHEDULE.

GENERAL NOTES

1. CONTRACTOR SHALL UPDATE ALL PANEL CIRCUIT DIRECTORIES TO INDICATE IN ANY AND ALL CHANGES; ALL REVISED CIRCUIT DIRECTORIES SHALL BE TYPEWRITTEN.
2. FOR ALL "REVISED" PANEL SCHEDULES REFERENCE ASSOCIATED EQUIPMENT LOAD SCHEDULE FOR OVERALL PANEL LOAD. "REVISED" PANEL SCHEDULES ON THIS SHEET ARE SHOWN FOR ADDED BRANCH CIRCUIT SIZING ONLY.
3. ALL DIGITAL POWER METERS (DPM) AND SURGE PROTECTIVE DEVICES (SPD) ARE INTEGRAL TO ELECTRICAL DISTRIBUTION EQUIPMENT, UNLESS OTHERWISE NOTED.
4. SCHEDULES WITH GREY TEXT INDICATE EXISTING PANELBOARD RATINGS, CIRCUITS, AND LOADS. BLACK TEXT INDICATES REVISED CIRCUITS, PROVIDED EQUIPMENT, AND ADDITIONAL LOAD.

PANELBOARD 001-DP-TRA

Location: BLDG 001, RM B-19 **Line Volts:** 208 **A.I.C Rating:** 22k
Supply From: 01-ATS-TRA **Neutral Volts:** 120 **Bus Rating:** 225A
Mounting: Surface **Phases:** 3 **Main Circuit Breaker:** 225AF / 225AT / 3P / LSI
Enclosure: Type 1 **Wires** 4

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A		B		C		Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SPARE	20 A	1	0	4247					3	100 A	PANELBOARD 001-113A	2
3	PANELBOARD 001-10AA	100 A	3			4247	3526			"	"	"	4
5	"	"	"					3500	4027	"	"	"	6
7	"	"	"	4027	0					1	20 A	SPARE	8
9	SPARE	20 A	1			0	0			1	20 A	SPARE	10
11	PANELBOARD 001-201A	150 A	3					13674	6847	3	100 A	PANELBOARD 001-331A	12
13	"	"	"	8026	3619					"	"	"	14
15	"	"	"			10908	6721			"	"	"	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	100					3	40 A	SPD	20
21	SPARE	20 A	1			0	100			"	"	"	22
23	SPARE	20 A	1					0	100	"	"	"	24
25	SPARE	20 A	1	0	100					3	20 A	DPM	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	20120		25601		28248					
			Total Amps:	168		213		235					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	5200	125.00%	6500	Total Conn. Power Load:	73969 VA
Other	20365	100.00%	20365	Total Est. Power Demand:	61855 VA
Receptacle	3060	100.00% (NOTE 1)	3060	Total Conn. Amperage:	205 A
Lighting	344	125.00%	430	Total Est. Amperage Demand:	172 A
Telecom Rack	45000	(NOTE 3)	31500		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. DIGITAL POWER METER (DPM) AND SURGE PROTECTION DEVICE (SPD) TO BE INTEGRAL TO PANEL (FACTORY INSTALLED).
3. TELECOM RACK LOADS ARE DE-RATED FROM 5000VA PER RACK TO 3500VA PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021).

PANELBOARD 001-10AA

Location: BLDG 001, RM 10A **Line Volts:** 208 **A.I.C Rating:** 22k
Supply From: 001-DP-TRA **Neutral Volts:** 120 **Bus Rating:** 100A
Mounting: Surface **Phases:** 3 **Main Circuit Breaker:** 100AF / 100AT / 3P
Enclosure: Type 1 **Wires** 4

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A		B		C		Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	20 A	3	1667	720					1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"			1667	67			1	20 A	LIGHTING - TR ROOM	4
5	"	"	"					1667	0	2	40 A	SPARE	6
7	FUTURE RACK RECEPTACLE	20 A	3	1667	0					"	"	"	8
9	"	"	"			1667	0			1	20 A	SPARE	10
11	"	"	"					1667	94	2	15 A	VRF UNIT "001-VRF-01-10A"	12
13	SPARE	20 A	1	0	94					"	"	"	14
15	SPARE	20 A	1			0	0			2	15 A	SPARE	16
17	SPARE	20 A	1					0	0	"	"	"	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	ACCESS CONTROL PANEL / DOOR POWER	20 A	1					500	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	100					3	30 A	SPD	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	4247		3500		4027					
			Total Amps:	35		29		34					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	187	125.00%	234	Total Conn. Power Load:	11774 VA
Other	800	100.00%	800	Total Est. Power Demand:	11838 VA
Receptacle	720	100.00% (NOTE 1)	720	Total Conn. Amperage:	33 A
Lighting	67	125.00%	84	Total Est. Amperage Demand:	33 A
Telecom Rack	10000	100.00%	10000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) TO BE INTEGRAL TO PANEL (FACTORY INSTALLED).

PANELBOARD 001-113A

Location: BLDG 001, RM 113 **Line Volts:** 208 **A.I.C Rating:** 22k
Supply From: 001-DP-TRA **Neutral Volts:** 120 **Bus Rating:** 100A
Mounting: Surface **Phases:** 3 **Main Circuit Breaker:** 100AF / 100AT / 3P
Enclosure: Type 1 **Wires** 4

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A		B		C		Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	30 A	3	3333	720					1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"			3333	92			1	20 A	LIGHTING - TR ROOM	4
5	"	"	"					3333	0	2	40 A	SPARE	6
7	SPARE	20 A	1	0	0					"	"	"	8
9	SPARE	20 A	1			0	0			1	20 A	SPARE	10
11	SPARE	20 A	1					0	94	2	15 A	VRF UNIT "001-VRF-02-113"	12
13	SPARE	20 A	1	0	94					"	"	"	14
15	SPARE	20 A	1			0	0			2	15 A	SPARE	16
17	SPARE	20 A	1					0	0	"	"	"	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	ACCESS CONTROL PANEL / DOOR POWER	20 A	1					500	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	100					3	30 A	SPD	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	4247		3526		4027					
			Total Amps:	35		29		34					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	187	125.00%	234	Total Conn. Power Load:	11800 VA
Other	800	100.00%	800	Total Est. Power Demand:	11870 VA
Receptacle	720	100.00% (NOTE 1)	720	Total Conn. Amperage:	33 A
Lighting	92	125.00%	116	Total Est. Amperage Demand:	33 A
Telecom Rack	10000	100.00%	10000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

PANELBOARD 001-201A

Location: BLDG 001, RM 201 **Line Volts:** 208 **A.I.C Rating:** 22k
Supply From: 001-DP-TRA **Neutral Volts:** 120 **Bus Rating:** 225A
Mounting: Surface **Phases:** 3 **Main Circuit Breaker:** 225AF / 150AT / 3P
Enclosure: Type 1 **Wires** 4

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A		B		C		Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	60 A	3	5000	720					1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"			5000	92			1	20 A	LIGHTING - TR ROOM	4
5	"	"	"					5000	2600	2	40 A	CONDENSING UNIT "001-CU-01-10A"	6
7	CONDENSING UNIT "001-CU-02-213"	40 A	2	2600	2600					"	"	"	8
9	"	"	"			2600	180			1	20 A	RECEPTACLE - OUTDOOR	10
11	CONDENSING UNIT "001-CU-03-201"	40 A	2					2600	54	1	15 A	VRF UNIT "001-VRF-03-201"	12
13	"	"	"	2600	54					"	"	"	14
15	SPARE	20 A	1			0	54			2	15 A	VRF UNIT "001-VRF-04-201"	16
17	SPARE	20 A	1					0	54	"	"	"	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	ACCESS CONTROL PANEL / DOOR POWER	20 A	1					500	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	100					3	30 A	SPD	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	13674		8026		10908					
			Total Amps:	114		67		91					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	5200	125.00%	6500	Total Conn. Power Load:	32609 VA
Other	11416	100.00%	11416.32	Total Est. Power Demand:	33932 VA
Receptacle	900	100.00% (NOTE 1)	900	Total Conn. Amperage:	91 A
Lighting	92	125.00%	116	Total Est. Amperage Demand:	94 A
Telecom Rack	15000	100.00%	15000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

PANELBOARD 001-331A

Location: BLDG 001, RM 331 **Line Volts:** 208 **A.I.C Rating:** 22k
Supply From: 001-DP-TRA **Neutral Volts:** 120 **Bus Rating:** 100A
Mounting: Surface **Phases:** 3 **Main Circuit Breaker:** 100AF / 100AT / 3P
Enclosure: Type 1 **Wires** 4

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A		B		C		Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	30 A	3	3333	720					1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"			3333	92			1	20 A	LIGHTING - TR ROOM	4
5	"	"	"					3333	2600	2	40 A	CONDENSING UNIT "001-CU-04-331"	6
7	SPARE	40 A	2	0	2600					"	"	"	8
9	"	"	"			0	0			1	20 A	SPARE	10
11	SPARE	40 A	2					0	94	2	15 A	VRF UNIT "001-VRF-05-331"	12
13	"	"	"	0	94					"	"	"	14
15	SPARE	20 A	1			0	94			2	15 A	VRF UNIT "001-VRF-06-333"	16
17	SPARE	20 A	1					0	94	"	"	"	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	ACCESS CONTROL PANEL / DOOR POWER	20 A	1					500	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	100					3	30 A	SPD	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	6847		3619		6721					
			Total Amps:	57		30		56					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	5200	125.00%	6500	Total Conn. Power Load:	17187 VA
Other	1174	100.00%	1174.4	Total Est. Power Demand:	18510 VA
Receptacle	720	100.00% (NOTE 1)	720	Total Conn. Amperage:	48 A
Lighting	92	125.00%	116	Total Est. Amperage Demand:	51 A
Telecom Rack	10000	100.00%	10000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

Revisions: Date:

CONSULTANT/ DISCIPLINE
DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD
A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
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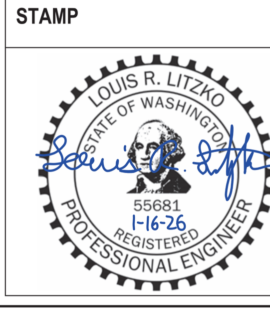
STAMP



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

Drawing Title: BLDG 001 - ELECTRICAL SCHEDULES
Approved:
Phase: 100% CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED
Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Project Number: 405-22-700
Building Number: 001
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Issue Date: 01/16/2026
Checked: NVP/DCW
Drawn: RTS/KDB
Drawing Number: **001EP701**

PANELBOARD "MSB1A" METERING AND LOAD INFORMATION SCHEDULE

SYSTEM RATINGS: 1200A BUS, MLO, 208/120Y, 3PH

LOAD TYPE	DEMAND AMPS (A)	SYSTEM VOLTAGE	DEMAND VA	NOTES
PEAK DEMAND LOAD	598	208	215728	1
25% OF PEAK DEMAND (NEC 220.87)	-	-	53932	
ADDED DEMAND LOAD				
PANELBOARD "001-DP-TRA"	-	-	600	
PANELBOARD "001-10AA"	-	-	11838	2
PANELBOARD "001-113A"	-	-	11870	2
PANELBOARD "001-201A"	-	-	33932	2
PANELBOARD "001-331A"	-	-	18510	2
PANELBOARD "001-DP-TRB"	-	-	600	
PANELBOARD "001-10AB"	-	-	1020	3
PANELBOARD "001-113B"	-	-	1020	3
PANELBOARD "001-201B"	-	-	1020	3
PANELBOARD "001-331B"	-	-	1020	3
PANELBOARD "01_PB_LS CL"	-	-		
PANELBOARD "01_PB_LE-E"	-	-	1382	4
REMOVED LOAD				
BUILDING 001 - RACK REDUCTION (-2.5kVA EA. RACK @ 9 RACKS TOTAL)	-	-	-22500	5
BUILDING 001 - EXISTING TELECOM RACKS (-1.5kVA EA. RACK @ 11 RACKS	-	-	-13500	6
		TOTAL DEMAND VA	316470	
		TOTAL AMPERAGE	528	
		% TOTAL LOAD	73%	7

NOTES:
1. PEAK DEMAND IS PROVIDED FROM 30-DAY METERING STUDY. PEAK DEMAND RECORDED FROM 06/10/2025.
2. ADDED LOAD CONSISTS OF NEW GENERAL RECEPTACLES, TR RACKS, HVAC AND/OR LIGHTING DEMAND LOADS; REFERENCE PANEL SCHEDULES FOR EXACT DEMAND LOAD INFORMATION.
3. ADDED LOAD CONSISTS OF GENERAL RECEPTACLES; REDUNDANT B-SIDE OVERHEAD RECEPTACLE LOAD IS NOT INCLUDED IN POWER CALCULATIONS AS LOADS DO NOT OPERATE AT FULL LOAD SIMULTANEOUSLY. REFERENCE PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
4. ADDED LOAD CONSISTS OF LIGHTING AND FIRE SMOKE DAMPER.
5. EXISTING DATA RACKS ARE ESTIMATED TO BE 1500VA EACH.
6. PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021), TR RACK LOADS ARE DE-RATED FROM 5000VA TO 2500VA AT SUBSTATION LEVEL.
7. TOTAL PERCENT LOADING IS COMPARED TO UPSTREAM MAIN OVER CURRENT PROTECTIVE DEVICE RATING OF 1200A.

PANELBOARD 001-DP-TRB

Location: BLDG 001, RM 8 | **Supply From:** 01-SB-MSB1A | **Mounting:** Surface | **Enclosure:** Type 1
Line Volts: 208 | **Neutral Volts:** 120 | **Phases:** 3 | **Wires** 4
A.I.C Rating: 22k | **Bus Rating:** 225A | **Main Circuit Breaker:** 225AF / 225AT / 3P / LSI

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	PANELBOARD 001-10AB	100 A	3	4153	4153					3	100 A	PANELBOARD 001-113B	2
3	"	"	"			3433	3433			"	"	"	4
5	"	"	"					3433	3433	"	"	"	6
7	SPARE	20 A	1	0	0					1	20 A	SPARE	8
9	PANELBOARD 001-201B	100 A	3			5020	0			1	20 A	SPARE	10
11	"	"	"					5100	4153	3	100 A	PANELBOARD 001-331B	12
13	"	"	"	5100	3433					"	"	"	14
15	SPARE	20 A	1			0	3433			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	2	0	100					3	40 A	SPD	20
21	SPARE	20 A	2			0	100			"	"	"	22
23	SPARE	20 A	3					0	100	"	"	"	24
25	SPARE	20 A	3	0	100					3	20 A	DPM	26
27	SPARE	20 A	4			0	100			"	"	"	28
29	SPARE	20 A	4					0	100	"	"	"	30
			Total Load:	17040		16320		16320					
			Total Amps:	142		136		136					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	0	125.00%	0	Total Conn. Power Load:	49680 VA
Other	1800	100.00%	1800	Total Est. Power Demand:	36180 VA
Receptacle	2880	100.00% (NOTE 1)	2880	Total Conn. Amperage:	138 A
Lighting	0	125.00%	0	Total Est. Amperage Demand:	100 A
Telecom Rack	45000	(NOTE 3)	31500		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. DIGITAL POWER METER (DPM) AND SURGE PROTECTION DEVICE (SPD) TO BE INTEGRAL TO PANEL (FACTORY INSTALLED).
3. TELECOM RACK LOADS ARE DE-RATED FROM 5000VA PER RACK TO 3500VA PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021).

PANELBOARD 001-10AB

Location: BLDG 001, RM 10A | **Supply From:** 001-DP-TRB | **Mounting:** Surface | **Enclosure:** Type 1
Line Volts: 208 | **Neutral Volts:** 120 | **Phases:** 3 | **Wires** 4
A.I.C Rating: 22K | **Bus Rating:** 100A | **Main Circuit Breaker:** 100AF / 100AT / 3P

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	30 A	3	1667	720					1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"			1667	0			1	20 A	SPARE	4
5	"	"	"					1667	0	1	20 A	SPARE	6
7	FUTURE SERVER RACK RECEPTACLE	30 A	3	1667	0					1	20 A	SPARE	8
9	"	"	"			1667	0			1	20 A	SPARE	10
11	"	"	"					1667	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	SPARE	20 A	1					0	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	100					3	30 A	SPD	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	4153		3433		3433					
			Total Amps:	35		29		29					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	0	125.00%	0	Total Conn. Power Load:	11020 VA
Other	300	100.00%	300	Total Est. Power Demand:	11020 VA
Receptacle	720	100.00% (NOTE 1)	720	Total Conn. Amperage:	31 A
Lighting	0	125.00%	0	Total Est. Amperage Demand:	31 A
Telecom Rack	10000	100.00%	10000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

PANELBOARD 001-113B

Location: BLDG 001, RM 113 | **Supply From:** 001-DP-TRB | **Mounting:** Surface | **Enclosure:** Type 1
Line Volts: 208 | **Neutral Volts:** 120 | **Phases:** 3 | **Wires** 4
A.I.C Rating: 22k | **Bus Rating:** 100A | **Main Circuit Breaker:** 100AF / 100AT / 3P

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	30 A	3	3333	720					1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"			3333	0			1	20 A	SPARE	4
5	"	"	"					3333	0	1	20 A	SPARE	6
7	SPARE	20 A	1	0	0					1	20 A	SPARE	8
9	SPARE	20 A	1			0	0			1	20 A	SPARE	10
11	SPARE	20 A	1					0	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	SPARE	20 A	1					0	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	100					3	30 A	SPD	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	4153		3433		3433					
			Total Amps:	35		29		29					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	0	125.00%	0	Total Conn. Power Load:	11020 VA
Other	300	100.00%	300	Total Est. Power Demand:	11020 VA
Receptacle	720	100.00% (NOTE 1)	720	Total Conn. Amperage:	31 A
Lighting	0	125.00%	0	Total Est. Amperage Demand:	31 A
Telecom Rack	10000	100.00%	10000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

PANELBOARD 001-201B

Location: BLDG 001, RM 201 | **Supply From:** 001-DP-TRB | **Mounting:** Surface | **Enclosure:** Type 1
Line Volts: 208 | **Neutral Volts:** 120 | **Phases:** 3 | **Wires** 4
A.I.C Rating: 22K | **Bus Rating:** 100A | **Main Circuit Breaker:** 100AF / 100AT / 3P

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	60 A	3	5000	720					1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"			5000	0			1	20 A	SPARE	4
5	"	"	"					5000	0	1	20 A	SPARE	6
7	SPARE	20 A	1	0	0					1	20 A	SPARE	8
9	SPARE	20 A	1			0	0			1	20 A	SPARE	10
11	SPARE	20 A	1					0	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	SPARE	20 A	1					0	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	100					3	30 A	SPD	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	5820		5100		5100					
			Total Amps:	48		42		42					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	0	125.00%	0	Total Conn. Power Load:	16020 VA
Other	300	100.00%	300	Total Est. Power Demand:	16020 VA
Receptacle	720	100.00% (NOTE 1)	720	Total Conn. Amperage:	44 A
Lighting	0	125.00%	0	Total Est. Amperage Demand:	44 A
Telecom Rack	15000	100.00%	15000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

PANELBOARD 001-331B

Location: BLDG 001, RM 331 | **Supply From:** 001-DP-TRB | **Mounting:** Surface | **Enclosure:** Type 1
Line Volts: 208 | **Neutral Volts:** 120 | **Phases:** 3 | **Wires** 4
A.I.C Rating: 22K | **Bus Rating:** 100A | **Main Circuit Breaker:** 100AF / 100AT / 3P

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	30 A	3	3333	720					1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"			3333	0			1	20 A	SPARE	4
5	"	"	"					3333	0	1	20 A	SPARE	6
7	SPARE	20 A	1	0	0					1	20 A	SPARE	8
9	SPARE	20 A	1			0	0			1	20 A	SPARE	10
11	SPARE	20 A	1					0	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	SPARE	20 A	1					0	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	100					3	30 A	SPD	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	4153		3433		3433					
			Total Amps:	35		29		29					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	0	125.00%	0	Total Conn. Power Load:	11020 VA
Other	300	100.00%	300	Total Est. Power Demand:	11020 VA
Receptacle	720	100.00% (NOTE 1)	720	Total Conn. Amperage:	31 A
Lighting	0	125.00%	0	Total Est. Amperage Demand:	31 A
Telecom Rack	10000	100.00%	10000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

GENERAL NOTES

1. CONTRACTOR SHALL UPDATE ALL PANEL CIRCUIT DIRECTORIES TO INDICATE IN ANY AND ALL CHANGES; ALL REVISED CIRCUIT DIRECTORIES SHALL BE TYPEWRITTEN.
2. FOR ALL "REVISED" PANEL SCHEDULES REFERENCE ASSOCIATED EQUIPMENT LOAD SCHEDULE FOR OVERALL PANEL LOAD. "REVISED" PANEL SCHEDULES ON THIS SHEET ARE SHOWN FOR ADDED BRANCH CIRCUIT SIZING ONLY.
3. ALL DIGITAL POWER METERS (DPM) AND SURGE PROTECTIVE DEVICES (SPD) ARE INTEGRAL TO ELECTRICAL DISTRIBUTION EQUIPMENT, UNLESS OTHERWISE NOTED.
4. SCHEDULES WITH GREY TEXT INDICATE EXISTING PANELBOARD RATINGS, CIRCUITS, AND LOADS. BLACK TEXT INDICATES REVISED CIRCUITS, PROVIDED EQUIPMENT, AND ADDITIONAL LOAD.

Revisions:	Date:

CONSULTANT/ DISCIPLINE
DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD
A/E:
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23830 PACIFIC HIGHWAY S. SUITE 300
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Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 001 - ELECTRICAL SCHEDULES
Phase: 100% CONSTRUCTION DOCUMENTS
Approved:
FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Project Number: 405-22-700
Building Number: 001
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Drawing Number: 001EP702
Issue Date: 01/16/2026
Checked: NVP/DCW
Drawn: RTS/KDB

BLDG 01 - CONDUIT AND WIRE SCHEDULE - VA VT WHITE RIVER JUNCTION EHRM UPGRADES

CONDUIT TAG	SERVICE	ROUTING		CONDUIT		CONDUCTORS		VOLTAGE DROP	FAULT CURRENT	NOTES
		FROM	TO	QTY	SIZE	(QTY) & SIZE	GROUND SIZE			
001-P-01	PANELBOARD "001-DP-TRB"	PANELBOARD "MSB1A"	PANELBOARD "001-DP-TRB"	1	2-1/2"	(3) 4/0 AWG, (1) 300 KCMIL	4 AWG	0.33%	20,075	1
001-P-02	PANELBOARD "001-10AB"	PANELBOARD "001-DP-TRB"	PANELBOARD "001-10AB"	1	1-1/4"	(3) 2 AWG, (1) 1 AWG	6 AWG	0.76%	5,968	1
001-P-03	PANELBOARD "001-113B"	PANELBOARD "001-DP-TRB"	PANELBOARD "001-113B"	1	1-1/4"	(3) 2 AWG, (1) 1 AWG	6 AWG	0.92%	4,709	1
001-P-04	PANELBOARD "001-201B"	PANELBOARD "001-DP-TRB"	PANELBOARD "001-201B"	1	1-1/4"	(3) 2 AWG, (1) 1 AWG	6 AWG	1.80%	2,949	1
001-P-05	PANELBOARD "001-331B"	PANELBOARD "001-DP-TRB"	PANELBOARD "001-331B"	1	1-1/4"	(3) 2 AWG, (1) 1 AWG	6 AWG	1.89%	1,995	1
001-P-06	ATS "001-ATS-TRA" EMERGENCY POWER	PANELBOARD "40 PB MDP-E"	ATS "001-ATS-TRA" EMERGENCY POWER	1	2"	(3) 4/0 AWG	4 AWG	0.73%	5,449	-
001-P-07	ATS "001-ATS-TRA" NORMAL POWER	PANELBOARD "MSB1A"	ATS "001-ATS-TRA" NORMAL POWER	1	2"	(3) 4/0 AWG	4 AWG	1.03%	7,768	-
001-P-08	TRANSFORMER "01-TX-PNL-TRA"	ATS "ATS-BLDG-1-TRA"	TRANSFORMER "01-TX-PNL-TRA"	1	2"	(3) 4/0 AWG	4 AWG	1.04%	7,400	-
001-P-09A	PANELBOARD "001-DP-TRA"	TRANSFORMER "001-TX-PNL-TRA"	ENCLOSED CIRCUIT BREAKER "ECB-001-TX-PNL-TRA"	1	2-1/2"	(3) 4/0 AWG, (1) 300 KCMIL	4 AWG	0.34%	5,165	1
001-P-09B	PANELBOARD "001-DP-TRA"	ENCLOSED CIRCUIT BREAKER "ECB-001-TX-PNL-TRA"	PANELBOARD "001-DP-TRA"	1	2-1/2"	(3) 4/0 AWG, (1) 300 KCMIL	4 AWG	0.34%	5,165	1
001-P-10	PANELBOARD "001-10AA"	PANELBOARD "001-DP-TRA"	PANELBOARD "001-10A"	1	1-1/4"	(3) 2 AWG, (1) 1 AWG	6 AWG	0.34%	1,880	1
001-P-11	PANELBOARD "001-113A"	PANELBOARD "001-DP-TRA"	PANELBOARD "001-113A"	1	1-1/4"	(3) 2 AWG, (1) 1 AWG	6 AWG	1.68%	2,246	1
001-P-12	PANELBOARD "001-201A"	PANELBOARD "001-DP-TRA"	PANELBOARD "001-201A"	1	2"	(3) 3/0 AWG, (1) 4/0 AWG	3/0 AWG	0.82%	3,499	1
001-P-13	PANELBOARD "001-331A"	PANELBOARD "001-DP-TRA"	PANELBOARD "001-331A"	1	1-1/4"	(3) 2 AWG, (1) 1 AWG	6 AWG	2.65%	3,612	1
001-P-14	CONDENSING UNIT "001-CU-01-10A"	PANELBOARD "001-201A"	CONDENSING UNIT "001-CU-01-10A" VIA DISCONNECT	1	3/4"	(2) 8 AWG	10 AWG	3.10%	3,499	-
001-P-15	CONDENSING UNIT "001-CU-02-113"	PANELBOARD "001-201A"	CONDENSING UNIT "001-CU-02-113" VIA DISCONNECT	1	3/4"	(2) 8 AWG	10 AWG	2.75%	3,499	-
001-P-16	CONDENSING UNIT "001-CU-03-201"	PANELBOARD "001-201A"	CONDENSING UNIT "001-CU-03-201" VIA DISCONNECT	1	3/4"	(2) 8 AWG	10 AWG	2.75%	3,499	-
001-P-19	CONDENSING UNIT "001-CU-04-331"	PANELBOARD "001-331A"	CONDENSING UNIT "001-CU-04-331"	1	3/4"	(2) 8 AWG	10 AWG	4.29%	3,612	-
001-P-20	CONDENSING UNIT "001-CU-05-333/336A"	PANELBOARD "01-PNL-A"	CONDENSING UNIT "001-CU-05-333/336A"	1	3/4"	(2) 8 AWG	10 AWG	0.85%	4,925	-
P-TR-1A	TYPICAL TELECOM ROOM DATA RACK POWER FEED (1-RACK), SIDE A	TYPICAL SOURCE A TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE A RECEPTACLE	1	3/4"	(4) 10 AWG	10 AWG	-	-	-
P-TR-2A	TYPICAL TELECOM ROOM DATA RACK POWER FEED (2-RACK), SIDE A	TYPICAL SOURCE A TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE A RECEPTACLE	1	3/4"	(4) 10 AWG	10 AWG	-	-	-
P-TR-3A	TYPICAL TELECOM ROOM DATA RACK POWER FEED (3-RACK), SIDE A	TYPICAL SOURCE A TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE A JUNCTION BOX	1	1"	(4) 6 AWG	8 AWG	-	-	-
P-TR-1B	TYPICAL TELECOM ROOM DATA RACK POWER FEED (1-RACK), SIDE B	TYPICAL SOURCE B TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE B RECEPTACLE	1	3/4"	(4) 10 AWG	10 AWG	-	-	-
P-TR-2B	TYPICAL TELECOM ROOM DATA RACK POWER FEED (2-RACK), SIDE B	TYPICAL SOURCE B TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE B RECEPTACLE	1	3/4"	(4) 10 AWG	10 AWG	-	-	-
P-TR-3B	TYPICAL TELECOM ROOM DATA RACK POWER FEED (3-RACK), SIDE B	TYPICAL SOURCE B TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE B JUNCTION BOX	1	1"	(4) 6 AWG	8 AWG	-	-	-

NOTE(S):
1. NEUTRAL IS UPSIZED.

GENERAL NOTES

1. CONTRACTOR SHALL UPDATE ALL PANEL CIRCUIT DIRECTORIES TO INDICATE IN ANY AND ALL CHANGES; ALL REVISED CIRCUIT DIRECTORIES SHALL BE TYPEWRITTEN.
2. FOR ALL "REVISED" PANEL SCHEDULES REFERENCE ASSOCIATED EQUIPMENT LOAD SCHEDULE FOR OVERALL PANEL LOAD. "REVISED" PANEL SCHEDULES ON THIS SHEET ARE SHOWN FOR ADDED BRANCH CIRCUIT SIZING ONLY.
3. ALL DIGITAL POWER METERS (DPM) AND SURGE PROTECTIVE DEVICES (SPD) ARE INTEGRAL TO ELECTRICAL DISTRIBUTION EQUIPMENT, UNLESS OTHERWISE NOTED.
4. EXISTING, REVISED, OR REPLACEMENT SCHEDULES WITH GREY TEXT INDICATE EXISTING PANELBOARD RATINGS, CIRCUITS AND LOADS. BLACK TEXT INDICATES REVISED CIRCUITS, PROVIDED EQUIPMENT, AND ADDITIONAL LOAD.

Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 001 - ELECTRICAL SCHEDULES

Phase: 100% CONSTRUCTION DOCUMENTS

Approved:

FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER

Location: VA VT WHITE RIVER JUNCTION
163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009

Issue Date: 01/16/2026

Checked: NVP/DCW

Drawn: RTS/KDB

Project Number: 405-22-700

Building Number: 001

Drawing Number: **001EP703**

ULTIMATE CAPACITY DATA CENTER UPS LOAD SCHEDULE (NOTE 1)			
ELECTRICAL RATINGS: 150kW; INPUT: 480V, 3W; OUTPUT: 208/120V, 4W; 3PH			
LOAD TYPE	**W**	**PF**	**VA**
A-SIDE MDA ROW BUSWAY (NOTE 2)	7000	1	7000
SERVER CABINET ROW BUSWAY 1 (NOTE 3)	62800	1	62800
SERVER CABINET ROW BUSWAY 2 (NOTE 4)	28300	1	28300
		TOTAL VA LOAD	98100
		TOTAL AMPERAGE	272
	ULTIMATE CAPACITY - ESTIMATED PERCENT RUNNING LOAD (NOTE 1)		98.1%
	EXISTING CAPACITY - ESITMATED PERCENT RUNNING LOAD (NOTE 5)		60.0%

NOTES:
1. SCHEDULE PROVIDED FOR A SIDE UPS ONLY; B SIDE UPS PROVIDES REDUNDANT POWER TO THE REDUNDANT MDA AND SERVER CABINET ROW BUSWAYS. UPS RATED FOR MINIMUM 10 MINUTE RUNTIME AT FULL LOAD. 98.1 KVA IS ULTIMATE CAPACITY FOR DATA CENTER UPS. REFERENCE NOTE 5 ON THIS SCHEDULE FOR REQUIRED POWER MODULES.
2. MDA ROW BUSWAY CONSISTS OF 3 MDA RACKS (2 ACTIVE RACKS AT 3.5KVA EACH, 1 PASSIVE RACK)
3. SERVER CABINET ROW BUSWAY 1 CONSISTS OF 12 SERVER RACKS AND 1 HDA CABINET (12 SERVER CABINETS AT 5kVA EACH, 1 HDA CABINETS AT 2.8kVA EACH).
4. SERVER CABINET ROW BUSWAY 2 CONSISTS OF 3 SERVER RACKS, 1 HDA CABINET, 3 MDA RACKS, AND 1 ISP ENTRANCE RACK (3 SERVER CABINETS AT 5KVA EACH, 1 HDA CABINET AT 2.8kVA EACH, 2 ACTIVE MDA RACKS AT 3.5KVA EACH, 1 PASSIVE RACK, AND 1 ISP ENTRANCE RACK AT 3.5KVA).
5. EXISTING UPS CAPACITY PROVIDED BY VA IS APPROXIMATELY 30kW MEASURED MAY 2022. CONTRACTOR SHALL PROVIDE 150kW FRAME UPS WITH (1) 50kW POWER MODULE TO SUPPORT EXISTING LOAD. REFERENCE ONE-LINE DIAGRAM ON SHEET 001EP605 FOR ADDITIONAL INFORMATION.

PANELBOARD DC-MDP-N

Location: BLDG 031, RM B-19B
Supply From: SWITCHBOARD "40_SB_MDP-N-40"
Mounting: Surface
Enclosure: Type 1

Line Volts: 480
Neutral Volts: 277
Phases: 3
Wires 4

A.I.C Rating: 35k
Mains Rating: 600A
Mains: 600AF / 600AT / 3P / LSI

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	B	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	PANELBOARD "DC-DP-A" VIA ATS "DC-ATS-A"	600 A	3	98794	0		3	600 A	PANELBOARD "DC-DP-B" VIA ATS "DC-ATS-B" (NOTE 2)	2
3	"	"	"		94075	0	"	"	"	4
5	"	"	"			96526	"	"	"	6
7	SPARE	100 A	3	0	0		3	100 A	SPARE	8
9	"	"	"		0	0	"	"	"	10
11	"	"	"			0	"	"	"	12
13	SPARE	20 A	3	0	0		3	20 A	SPARE	14
15	"	"	"		0	0	"	"	"	16
17	"	"	"			0	"	"	"	18
19	SPARE	20 A	3	0	100		3	20 A	SPARE	20
21	"	"	"		0	100	"	"	"	22
23	"	"	"			0	"	"	"	24
25	SPARE	20 A	3	0	100		3	70 A	SPD	26
27	"	"	"		0	100	"	"	"	28
29	"	"	"			0	"	"	"	30
		Total Load:		98994	94275	96726				
		Total Amps:		357	340	349				

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	16254	125.00%	20317	Total Conn. Power Load:	289994 VA
Other	263213	100.00%	265213	Total Est. Power Demand:	294389 VA
Receptacle	7200	100.00%	7200	Total Conn. Amperage:	349 A
Lighting	1328	125.00%	1660	Total Est. Amperage Demand:	354 A

Notes:
1. PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021), TR RACK LOADS ARE DE-RATED FROM 5000VA TO 2500VA AT THE SWITCHBOARD.
2. REDUNDANT LOADS FOR TELECOMMUNICATIONS RACKS, CRAC UNIT, CONDENSOR UNIT, AND DATA CENTER UPS ARE NOT INCLUDED IN POWER CALCULATIONS AS LOADS DO NOT OPERATE AT FULL LOAD SIMULTANEOUSLY.
3. DIGITAL POWER METER (DPM) AND SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

PANELBOARD: DC-DP-B

Location: BLDG 31, RM B-18
Supply From: 31-ATS-B
Mounting: Surface
Enclosure: Type 1

Line Volts: 480
Neutral Volts: 277
Phases: 3
Wires 4

A.I.C Rating: 22k
Mains Rating: 600A
Mains: 600AF / 600AT / 3P / LSI

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	B	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	TRANSFORMER "DC-TX-UPS-B" (NOTE 2)	400 A	3	35087	2059		3	60 A	PANELBOARD "31-MECH-B"	2
3	"	"	"		35087	2059	"	"	"	4
5	"	"	"			35087	"	"	"	6
7	"	"	"	0	23465	2779	"	"	"	8
9	TRANSFORMER "31-TX-PNL-B"	30 A	3		1688	23465	"	"	"	10
11	"	"	"			2388	"	"	"	12
13	"	"	"	1564	0		1	20 A	SPARE	14
15	SPARE	20 A	1		0	0	1	20 A	SPARE	16
17	SPARE	20 A	1			0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	100		3	20 A	DPM	20
21	SPARE	20 A	1		0	100	"	"	"	22
23	SPARE	20 A	1			0	"	"	"	24
25	SPARE	20 A	3	33587	102		3	70 A	SPD	26
27	"	"	"		33587	100	"	"	"	28
29	"	"	"			33587	"	"	"	30
		Total Load:		95542	96066	97486				
		Total Amps:		346	347	352				

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	16254	125.00%	20317	Total Conn. Power Load:	289494 VA
Other	268909	100.00%	268909	Total Est. Power Demand:	293695 VA
Receptacle	3780	100.00%	3780	Total Conn. Amperage:	348 A
Lighting	552	125.00%	690	Total Est. Amperage Demand:	353 A

Notes:
1. DIGITAL POWER METER (DPM) AND SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).
2. SHUNT TRIP OPERATED BREAKER. BREAKER SHALL BE SHUNT TRIPPED UPON UPS SHUTDOWN SWITCH ACTIVATION.
3. REDUNDANT LOADS FOR PANELBOARD "DC-PB-A" DATA CENTER EQUIPMENT CONSISTING OF TELECOMMUNICATIONS RACKS AND DATA CENTER UPS ARE NOT INCLUDED IN POWER CALCULATIONS AS LOADS DO NOT OPERATE AT FULL LOAD SIMULTANEOUSLY.

PANELBOARD P-UPS-B

Location: BLDG 1, RM 336
Supply From: UPS-B
Mounting: UPS-B (INTERNAL)
Enclosure: Type 1

Line Volts: 208
Neutral Volts: 120
Phases: 3
Wires 4

A.I.C Rating: 30k
Bus Rating: 400A
Main Circuit Breaker: 400AF / 400AT / 3P / LSI

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	B	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	DATA CENTER MDA OH BUSWAY	100 A	3	4667 18533			3	250 A	DATA CENTER HDA & S. CABINET OH BUSWAY #1	2
3	"	"	"		4667 18533		"	"	"	4
5	"	"	"			4667 18533	"	"	"	6
7	SPACE	20 A	1	0 10200			3	250 A	DATA CENTER HDA & S. CABINET OH BUSWAY #2	8
9	SPACE	20 A	1		0 10200		"	"	"	10
11	SPACE	20 A	1			0 10200	"	"	"	12
13	SPACE	20 A	1	0 0			1	20 A	SPARE	14
15	SPACE	20 A	1		0 0		1	20 A	SPARE	16
17	SPACE	20 A	1			0 0	1	20 A	SPARE	18
19	SPACE	20 A	1	0 0			1	20 A	SPARE	20
21	SPACE	20 A	1		0 0		1	20 A	SPARE	22
23	SPACE	20 A	1			0 0	1	20 A	SPARE	24
25	SPACE	20 A	1	0 0			1	20 A	SPARE	26
27	SPACE	20 A	1		0 0		1	20 A	SPARE	28
29	SPACE	20 A	1			0 0	1	20 A	SPARE	30
		Total Load:		33400	33400	33400				
		Total Amps:		278	278	278				

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	0	125.00%	0	Total Conn. Power Load:	100200 VA
Other	100200	100.00%	100200	Total Est. Power Demand:	100200 VA
Receptacle	0	100.00%	0	Total Conn. Amperage:	278 A
Lighting	0	125.00%	0	Total Est. Amperage Demand:	278 A

Notes:

PANELBOARD 31-MECH-B

Location: BLDG 001, RM 336A
Supply From: PANELBOARD "DC-DP-B"
Mounting: Surface
Enclosure: NEMA 3R

Line Volts: 480
Neutral Volts: 277
Phases: 3
Wires 4

A.I.C Rating: 22k
Bus Rating: 60A
Main Circuit Breaker: 60AF / 60AT / 3P / ST (NOTE 2)

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	B	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	CONDENSOR "31-COND-02-DC"	15 A	3	372 372			3	15 A	CONDENSOR "31-COND-04-DC"	2
3	"	"	"		372 372		"	"	"	4
5	"	"	"			372 372	"	"	"	6
7	SPARE	20 A	1	0 0			1	20 A	SPARE	8
9	CONDENSOR "31-COND-06-DC"	15 A	4		372 372		3	15 A	CONDENSOR "31-COND-08-DC"	10
11	"	"	"			372 372	"	"	"	12
13	"	"	"	372 372			"	"	"	14
15	SPARE	20 A	1		0 0		1	20 A	SPARE	16
17	CONDENSOR "31-COND-10-DC"	15 A	3			372 0	1	20 A	SPARE	18
19	"	"	"	372 100			3	20 A	DPM	20
21	"	"	"		372 100		"	"	"	22
23	ROOFTOP RCPTS	20 A	1			720 100	"	"	"	24
25	SPARE	20 A	1	0 100			3	20 A	SPD	26
27	SPARE	20 A	1		0 100		"	"	"	28
29	SPARE	20 A	1			0 100	"	"	"	30
		Total Load:		2059	2059	2779				
		Total Amps:		17	17	23				

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	1115	125.00%	1394	Total Conn. Power Load:	6897 VA
Other	5062	100.00%	5062	Total Est. Power Demand:	7176 VA
Receptacle	720	100.00% (NOTE 1)	720	Total Conn. Amperage:	8 A
Lighting	0	125.00%	0	Total Est. Amperage Demand:	9 A
Telecommunications Rack	0	100.00%	0		

Notes:
1. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).
2. SHUNT TRIP OPERATED BREAKER. BREAKER SHALL BE SHUNT TRIPPED UPON HVAC SHUTDOWN SWITCH ACTIVATION.

PANELBOARD DC-MECH-B

Location: BLDG 001, RM 336A
Supply From: PANELBOARD "DC-DP-B"
Mounting: Surface
Enclosure: Type 1

Line Volts: 480
Neutral Volts: 277
Phases: 3
Wires 4

A.I.C Rating: 22k
Bus Rating: 225A
Main Circuit Breaker: 200AF / 150AT / 3P / ST (NOTE 2)

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	B	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	CRAC UNIT "001-CRAC-02-336A"	30 A	3	5418 4462			3	30 A	CRAC UNIT "001-CRAC-04-336A"	2
3	"	"	"		5418 4462		"	"	"	4
5	"	"	"			5418 4462	"	"	"	6
7	SPARE	20 A	1	0 0			1	20 A	SPARE	8
9	CRAC UNIT "001-CRAC-06-336A"	30 A	3		4462 4462		3	30 A	CRAC UNIT "001-CRAC-08-336A"	10
11	"	"	"			4462 4462	"	"	"	12
13	"	"	"	4462 4462			"	"	"	14
15	SPARE	20 A	1		0 0		1	20 A	SPARE	16
17	CRAC UNIT "001-CRAC-10-336A"	30 A	3			4462 0	1	20 A	SPARE	18
19	"	"	"	4462 100			3	20 A	DPM	20
21	"	"	"		4462 100		"	"	"	22
23	SPARE	20 A	1			0 100	"	"	"	24
25	SPARE	20 A	1	0 100			3	30 A	SPD	26
27	SPARE	20 A	1		0 100		"	"	"	28
29	SPARE	20 A	1			0 100	"	"	"	30
		Total Load:		23465	23465	23465				
		Total Amps:		195	195	195				

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	16254	125.00%	20317	Total Conn. Power Load:	70395 VA
Other	54141	100.00%	54141	Total Est. Power Demand:	74458 VA
Receptacle	0	100.00% (NOTE 1)	0	Total Conn. Amperage:	85 A
Lighting	0	125.00%	0	Total Est. Amperage Demand:	90 A
Telecommunications Rack	0	100.00%	0		

Notes:
1. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).
2. SHUNT TRIP OPERATED BREAKER. BREAKER SHALL BE SHUNT TRIPPED UPON HVAC SHUTDOWN SWITCH ACTIVATION.

PANELBOARD 31-PNL-B

Location: BLDG 31, RM B-18
Supply From: DC-DP-B
Mounting: Surface
Enclosure: Type 1

Line Volts: 208
Neutral Volts: 120
Phases: 3
Wires 4

A.I.C Rating: 22k
Mains Rating: 100A
Mains: 100AF / 60AT / 3P / LSI

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	B	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	PANELBOARD "001-PNL-B-2"	60 A	3	1367 67			1	20 A	LIGHTING - RM B-19B	2
3	"	"	"		1414 720		1	20 A	RECEPTACLES - RM B-19B	4
5	"	"	"			1364 0	1	20 A	SPARE	6
7	SPARE	20 A	1	0 54			2	15 A	VRF UNIT "001-VRF-01-B-19B"	8
9	SPARE	20 A	1		0 54		"	"	"	10
11	SPARE	20 A	1			0 0	1	20 A	SPARE	12
13	SPARE	20 A	1	0 0			1	20 A	SPARE	14
15	SPARE	20 A	1		0 0		1	20 A	SPARE	16
17	SPARE	20 A	1			0 0	1	20 A	SPARE	18
19	SPARE	20 A	1	0 100			3	20 A	DPM	20
21	SPARE	20 A	1		0 100		"	"	"	22
23	SPARE	20 A	1			0 100	"	"	"	24
25	SPARE	20 A	1	0 100			3	30 A	SPD	26
27	SPARE	20 A	1		0 100		"	"	"	28
29	SPARE	20 A	1			0 100	"	"	"	30
		Total Load:		1688	2388	1564				
		Total Amps:		14	20	13				

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	108	125.00%	135	Total Conn. Power Load:	5640 VA
Other	1200	100.00%	1200	Total Est. Power Demand:	5805 VA
Receptacle	3780	100.00% (NOTE 2)	3780	Total Conn. Amperage:	16 A
Lighting	552	125.00%	690	Total Est. Amperage Demand:	16 A
Telecommunications Rack	0	NOTE 1	0		

Notes:
1. PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021), TR RACK LOADS ARE DE-RATED FROM 5000VA TO 3500VA AT THE DISTRIBUTION PANEL.
2. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
3. DIGITAL POWER METER (DPM) AND SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

PANELBOARD 001-PNL-B-2

Location: BLDG 001, RM
Supply From: 031-PNL-B
Mounting: Surface
Enclosure: Type 1

Line Volts: 208
Neutral Volts: 120
Phases: 3
Wires 4

A.I.C Rating: 22k
Mains Rating: 100A
Mains: 100AF / 60AF / 3P / LSI

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	B	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	LIGHTING - RM 336A - NORTH	20 A	1	267 900			1	20 A	RECEPTACLES - RM 336A - (BEHIND B-SIDE MDA) & NORTH	2
3	LIGHTING - RM 336A (BEHIND A-SIDE MDA)	20 A	1		134 5080		1	20 A	RECEPTACLES - RM 336A - SOUTH	4
5	RECEPTACLES - RM 336A - (BEHIND B-SIDE MDA)	20 A	1			10263 0	1	20 A	SPARE	6
7	SPARE	20 A	1	0 0			1	20 A	SPARE	8
9	SPARE	20 A	1		0 0		1	20 A	SPARE	10
11	LIGHTING - RM 336A (BEHIND B-SIDE MDA)	20 A	1			84 0	1	20 A	SPARE	12
13	SPARE	20 A	1	0 0			1	20 A	SPARE	14
15	SPARE	20 A	1		0 0		1	20 A	SPARE	16
17	SPARE	20 A	1			0 0	1	20 A	SPARE	18
19	SPARE	20 A	1	0 100			1	20 A	SPARE	20
21	SPARE	20 A	1		0 100		1	20 A	SPARE	22
23	SPARE	20 A	1			0 100	1	20 A	SPARE	24
25	SPARE	20 A	1	0 100			3	30 A	SPD	26
27	SPARE	20 A	1		0 100		"	"	"	28
29	SPARE	20 A	1			0 100	"	"	"	30
		Total Load:		1367	1414	1364				
		Total Amps:		11	12	11				

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	0	125.00%	0	Total Conn. Power Load:	4345 VA
Other	600	100.00%	600	Total Est. Power Demand:	4266 VA
Receptacle	3060	100.00% (NOTE 2)	3060	Total Conn. Amperage:	12 A
Lighting	485	125.00%	606	Total Est. Amperage Demand:	12 A
Telecommunications Rack	0	NOTE 1	0		

Notes:
1. PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021), TR RACK LOADS ARE DE-RATED FROM 5000VA TO 3500VA AT THE DISTRIBUTION PANEL.
2. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
3. DIGITAL POWER METER (DPM) AND SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

GENERAL NOTES

1. CONTRACTOR SHALL UPDATE ALL PANEL CIRCUIT DIRECTORIES TO INDICATE IN ANY AND ALL CHANGES; ALL REVISED CIRCUIT DIRECTORIES SHALL BE TYPEWRITTEN.
2. FOR ALL "REVISED" PANEL SCHEDULES REFERENCE "METERING AND LOAD INFORMATION SCHEDULE" LOCATED ON SHEET EP701 FOR OVERALL PANEL LOAD. "REVISED" PANEL SCHEDULES ON THIS SHEET ARE SHOWN FOR ADDED BRANCH CIRCUIT SIZING ONLY.
3. ALL DIGITAL POWER METERS (DPM) AND SURGE PROTECTIVE DEVICES (SPD) ARE INTEGRAL TO ELECTRICAL DISTRIBUTION EQUIPMENT, UNLESS OTHERWISE NOTED.
4. EXISTING, REVISED, OR REPLACEMENT SCHEDULES WITH GREY TEXT INDICATE EXISTING PANELBOARD RATINGS, CIRCUITS, AND LOADS. BLACK TEXT INDICATES REVISED CIRCUITS, PROVIDED EQUIPMENT, AND ADDITIONAL LOAD.

Revisions:	Date:

CONSULTANT/ DISCIPLINE
DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD
A/E:
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23830 PACIFIC HIGHWAY S. SUITE 300
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SPEESDESIGNBUILD

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

Drawing Title: BLDG 001 - ELECTRICAL SCHEDULES
Phase: 100% CONSTRUCTION DOCUMENTS
Approved:
FULLY SPRINKLERED
Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Project Number: 405-22-700
Building Number: 001
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Drawing Number: 001EP704
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PANELBOARD "40_PB_MDP-E" METERING AND LOAD INFORMATION SCHEDULE				
SYSTEM RATINGS: 1200A BUS, MLO,480/277V, 3PH				
LOAD TYPE	DEMAND AMPS (A)	SYSTEM VOLTAGE	DEMAND VA	NOTES
PEAK DEMAND LOAD	294	480	244427	1
25% OF PEAK DEMAND (NEC 220.87)	-	-	61107	
ADDED DEMAND LOAD				
PANELBOARD "001-DP-TRA"	-	-	1385	
PANELBOARD "001-10AA"	-	-	11838	2
PANELBOARD "001-113A"	-	-	11870	2
PANELBOARD "001-201A"	-	-	33932	2
PANELBOARD "001-331A"	-	-	18510	2
PANELBOARD "002-107B"	-	-	6020	2
PANELBOARD "039-DP-TRA"			12450	2
PANELBOARD "039-G05A"			16915	2
PANELBOARD "039-200AA"			11921	2
PANELBOARD "039-387A"			26271	2
PANELBOARD "DC-MDP-E"	-	-	-	
PANELBOARD "DC-DP-A"	-	-	600	
UNINTERRUPTIBLE POWER SUPPLY "UPS-A"	-	-	98100	3
PANELBOARD "01-PNL-A"	-	-	18454	2
PANELBOARD "DC-MECH-A"	-	-	76131	2
PANELBOARD "31-MECH-A"	-	-	6177	2
PANELBOARD "DC-MECH-B"	-	-	74458	2
PANELBOARD "31-MECH-B"	-	-	6897	2
PANELBOARD "31-PNL-B"	-	-	5640	2
REMOVED LOAD				
BUILDING 001 - RACK REDUCTION (-2.5kVA EA. RACK @ 9 RACKS TOTAL)	-	-	-22500	4
BUILDING 039 - RACK REDUCTION (-2.5kVA EA. RACK @ 8 RACKS TOTAL)			-20000	4
BUILDING 001 - EXISTING TELECOM RACKS (-1.5kVA EA. RACK @ 11 RACKS TOTAL)	-	-	-16500	5
BUILDING 039 - EXISTING TELECOM RACKS (-1.5kVA EA. RACK @ 13 RACKS TOTAL)			-19500	5
		TOTAL DEMAND VA	664601	
		TOTAL AMPERAGE	799	
		% TOTAL LOAD	67%	6

NOTES:
1. PEAK DEMAND IS OBTAINED FROM ON-SITE INVESTIGATIONS AND EXISTING BUILDING 01A GENERATOR TEST DATA.
2. ADDED LOAD CONSISTS OF TR RACKS, HVAC, GENERAL RECEPTACLE, AND / OR LIGHTING DEMAND LOADS. REDUNDANT 3-SIDE RECEPTACLE LOAD IS NOT INLCUDED IN POWER CALCULATIONS AS LOADS DO NOT OPERATE AT FULL LOAD SIMULTANEOUSLY. REFERENCE PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
3. ADDED LOAD CONSISTS OF UPS BUSWAY CONNECTIONS. REDUNDANT B-SIDE BUSWAY LOAD IS NOT INLCUDED IN POWER CALCULATIONS AS LOADS DO NOT OPERATE AT FULL LOAD SIMULTANEOUSLY. REFERENCE UPS LOAD SCHEDULE FOR ADDITIONAL INFORMATION.
4. PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021), TR RACK LOADS ARE DE-RATED FROM 5000VA TO 2500VA AT THE SUBSTATION.
5. EXISTING DATA RACKS ARE ESTIMATED TO BE 1500VA EACH.
6. TOTAL PERCENT LOADING IS COMPARED TO UPSTREAM MAIN OVER CURRENT PROTECTIVE DEVICE RATING OF 1200A.

PANELBOARD DC-MDP-E

Location: BLDG 001, RM 333
Supply From: 40_PB_MDP-E
Mounting: Surface
Enclosure: Type 1
Line Volts: 480
Neutral Volts: 277
Phases: 3
Wires 4
A.I.C Rating: 35k
Mains Rating: 600A
Mains: 600AF / 600AT / 3P / LSI

CKT	CIRCUIT DESCRIPTION	Trip	Poles	A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	PANELBOARD "DC-DP-A" VIA ATS "DC-ATS-A"	600 A	3	98794	0					3	600 A	PANELBOARD "DC-DP-B" VIA ATS "DC-ATS-B"	2
3	"	"	"			94075	0			"	"	(NOTE 2)	4
5	"	"	"					96526	0	"	"	"	6
7	SPARE	100 A	3	0	0					3	100 A	SPARE	8
9	"	"	"			0	0			"	"	"	10
11	"	"	"					0	0	"	"	"	12
13	SPARE	20 A	3	0	0					3	20 A	SPARE	14
15	"	"	"			0	0			"	"	"	16
17	"	"	"					0	0	"	"	"	18
19	SPARE	20 A	3	0	100					3	20 A	DPM	20
21	"	"	"			0	100			"	"	"	22
23	"	"	"					0	100	"	"	"	24
25	SPARE	20 A	3	0	100					3	70 A	SPD	26
27	"	"	"			0	100			"	"	"	28
29	"	"	"					0	100	"	"	"	30
			Total Load:	98994		94275		96726					
			Total Amps:	357		340		349					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	16254	125.00%	20317	Total Conn. Power Load:	289994 VA
Other	265213	100.00%	265213	Total Est. Power Demand:	294389 VA
Receptacle	7200	100.00%	7200	Total Conn. Amperage:	349 A
Lighting	1328	125.00%	1660	Total Est. Amperage Demand:	354 A

Notes:
1. PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021), TR RACK LOADS ARE DE-RATED FROM 5000VA TO 2500VA AT THE SWITCHBOARD.
2. REDUNDANT LOADS FOR TELECOMMUNICATIONS RACKS, CRAC UNIT, CONDENSOR UNIT, AND DATA CENTER UPS ARE NOT INCLUDED IN POWER CALCULATIONS AS LOADS DO NOT OPERATE AT FULL LOAD SIMULTANEOUSLY.
3. DIGITAL POWER METER (DPM) AND SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

PANELBOARD: DC-DP-A

Location: BLDG 1, RM 333
Supply From: 01-ATS-A
Mounting: Surface
Enclosure: Type 1
Line Volts: 480
Neutral Volts: 277
Phases: 3
Wires 4
A.I.C Rating: 22k
Mains Rating: 600A
Mains: 600AF / 600AT / 3P / LSI

CKT	CIRCUIT DESCRIPTION	Trip	Poles	A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	TRANSFORMER "DC-TX-UPS-A" (NOTE 2)	400 A	4	35067	8547					3	100 A	PANELBOARD "01-PNL-A" VIA XFMR "01-TX-PNL-A"	2
3	"	"	"			35067	3728			"	"	"	4
5	"	"	"					35067	6179	"	"	"	6
7	"	"	"	0	2059					4	60 A	PANELBOARD "31-MECH-A" (NOTE 2)	8
9	PANELBOARD "DC-MECH-A"	150 A	3			25377	2059			"	"	"	10
11	"	"	"					25377	2059	"	"	"	12
13	"	"	"	25377	0					"	"	"	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					3	20 A	DPM	20
21	SPARE	20 A	1			0	100			"	"	"	22
23	SPARE	20 A	1					0	100	"	"	"	24
25	TIE BREAKER "DC-ECB-TIE" (NOTE 3)	600 A	3	27644	100					3	70 A	SPD	26
27	"	"	"			27644	100			"	"	"	28
29	"	"	"					27644	100	"	"	"	30
			Total Load:	98794		94075		96526					
			Total Amps:	356		339		348					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	16254	125.00%	20317	Total Conn. Power Load:	289394 VA
Other	268944	100.00%	268944	Total Est. Power Demand:	293652 VA
Receptacle	3420	100.00%	3420	Total Conn. Amperage:	348 A
Lighting	776	125.00%	970	Total Est. Amperage Demand:	353 A
Telecommunications Rack	0	100.00%	0		

Notes:
1. DIGITAL POWER METER (DPM) AND SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).
2. SHUNT TRIP OPERATED BREAKER. BREAKER SHALL BE SHUNT TRIPPED UPON UPS SHUTDOWN SWITCH ACTIVATION.
3. REDUNDANT LOADS FOR PANELBOARD "DC-PB-A" DATA CENTER EQUIPMENT CONSISTING OF TELECOMMUNICATIONS RACKS AND DATA CENTER UPS ARE NOT INCLUDED IN POWER CALCULATIONS AS LOADS DO NOT OPERATE AT FULL LOAD SIMULTANEOUSLY.

GENERAL NOTES

1. CONTRACTOR SHALL UPDATE ALL PANEL CIRCUIT DIRECTORIES TO INDICATE IN ANY AND ALL CHANGES; ALL REVISED CIRCUIT DIRECTORIES SHALL BE TYPEWRITTEN.
2. FOR ALL "REVISED" PANEL SCHEDULES REFERENCE ASSOCIATED EQUIPMENT LOAD SCHEDULE FOR OVERALL PANEL LOAD. "REVISED" PANEL SCHEDULES ON THIS SHEET ARE SHOWN FOR ADDED BRANCH CIRCUIT SIZING ONLY.
3. ALL DIGITAL POWER METERS (DPM) AND SURGE PROTECTIVE DEVICES (SPD) ARE INTEGRAL TO ELECTRICAL DISTRIBUTION EQUIPMENT, UNLESS OTHERWISE NOTED.
4. SCHEDULES WITH GREY TEXT INDICATE EXISTING PANELBOARD RATINGS, CIRCUITS, AND LOADS. BLACK TEXT INDICATES REVISED CIRCUITS, PROVIDED EQUIPMENT, AND ADDITIONAL LOAD.

PANELBOARD P-UPS-A

Location: BLDG 1, RM 336
Supply From: UPS-A
Mounting: UPS-A (INTERNAL)
Enclosure: Type 1
Line Volts: 208
Neutral Volts: 120
Phases: 3
Wires 4
A.I.C Rating: 30k
Bus Rating: 400A
Main Circuit Breaker: 400AF / 400AT / 3P / LSI

CKT	CIRCUIT DESCRIPTION	Trip	Poles	A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	DATA CENTER MDA OH BUSWAY	100 A	3	2333	20933					3	250 A	DATA CENTER HDA & S. CABINET OH BUSWAY #1	2
3	"	"	"			2333	20933			"	"	"	4
5	"	"	"					2333	20933	"	"	"	6
7	SPARE	20 A	1	0	9433					3	250 A	DATA CENTER HDA & S. CABINET OH BUSWAY #2	8
9	SPARE	20 A	1			0	9433			"	"	"	10
11	SPARE	20 A	1					0	9433	"	"	"	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	SPARE	20 A	1					0	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	0					1	20 A	SPARE	26
27	SPARE	20 A	1			0	0			1	20 A	SPARE	28
29	SPARE	20 A	1					0	0	1	20 A	SPARE	30
			Total Load:	32700		32700		32700					
			Total Amps:	272		272		272					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	0	125.00%	0	Total Conn. Power Load:	98100 VA
Other	98100	100.00%	98100	Total Est. Power Demand:	98100 VA
Receptacle	0	100.00%	0	Total Conn. Amperage:	272 A
Lighting	0	125.00%	0	Total Est. Amperage Demand:	272 A

Notes:

PANELBOARD 31-MECH-A

Location: BLDG 001, RM 336A
Supply From: PANELBOARD "DC-DP-A"
Mounting: Surface
Enclosure: NEMA 3R
Line Volts: 480
Neutral Volts: 277
Phases: 3
Wires 4
A.I.C Rating: 22k
Bus Rating: 60A
Main Circuit Breaker: 60AF / 60AT / 3P / ST (NOTE 2)

CKT	CIRCUIT DESCRIPTION	Trip	Poles	A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	CONDENSOR "31-COND-01-DC"	15 A	3	372	372					3	15 A	CONDENSOR "31-COND-03-DC"	2
3	"	"	"			372	372			"	"	"	4
5	"	"	"					372	372	"	"	"	6
7	SPARE	20 A	1	0	0					1	20 A	SPARE	8
9	CONDENSOR "31-COND-05-DC"	15 A	4			372	372			4	15 A	CONDENSOR "31-COND-07-DC"	10
11	"	"	"					372	372	"	"	"	12
13	"	"	"	372	372					"	"	"	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	CONDENSOR "31-COND-09-DC"	15 A	4					372	0	1	20 A	SPARE	18
19	"	"	"	372	100					3	20 A	DPM	20
21	"	"	"			372	100			"	"	"	22
23	SPARE	20 A	1					0	100	"	"	"	24
25	SPARE	20 A	1	0	100					3	20 A	SPD	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	2059		2059		2059					
			Total Amps:	17		17		17					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	1115	125.00%	1394	Total Conn. Power Load:	6177 VA
Other	5062	100.00%	5062	Total Est. Power Demand:	6456 VA
Receptacle	0	100.00% (NOTE 1)	0	Total Conn. Amperage:	7 A
Lighting	0	125.00%	0	Total Est. Amperage Demand:	8 A
Telecommunications Rack	0	100.00%	0		

Notes:
1. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).
2. SHUNT TRIP OPERATED BREAKER. BREAKER SHALL BE SHUNT TRIPPED UPON HVAC SHUTDOWN SWITCH ACTIVATION.

PANELBOARD DC-MECH-A

Location: BLDG 001, RM 336A
Supply From: PANELBAORD "DC-DP-A"
Mounting: Surface
Enclosure: Type 1
Line Volts: 480
Neutral Volts: 277
Phases: 3
Wires 4
A.I.C Rating: 22k
Bus Rating: 225A
Main Circuit Breaker: 225AF / 150AT / 3P / ST (NOTE 2)

CKT	CIRCUIT DESCRIPTION	Trip	Poles	A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	CRAC UNIT "001-CRAC-01-336A"	35 A	3	5418	4462					3	30 A	CRAC UNIT "001-CRAC-03-336A"	2
3	"	"	"			5418	4462			"	"	"	4
5	"	"	"					5418	4462	"	"	"	6
7	SPARE	20 A	1	0	0					1	20 A	SPARE	8
9	CRAC UNIT "001-CRAC-05-336A"	35 A	3			5418	5418			3	35 A	CRAC UNIT "001-CRAC-07-336A"	10
11	"	"	"					5418	5418	"	"	"	12
13	"	"	"	5418	5418					"	"	"	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	CRAC UNIT "001-CRAC-09-336A"	30 A	3					4462	0	1	20 A	SPARE	18
19	"	"	"	4462	100					3	20 A	DPM	20
21	"	"	"			4462	100			"	"	"	22
23	SPARE	20 A	1					0	100	"	"	"	24
25	SPARE	20 A	1	0	100					3	30 A	SPD	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	25377		25377		25377					
			Total Amps:	211		211		211					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	16254	125.00%	20317	Total Conn. Power Load:	76131 VA
Other	59878	100.00%	59878	Total Est. Power Demand:	80195 VA
Receptacle	0	100.00% (NOTE 1)	0	Total Conn. Amperage:	92 A
Lighting	0	125.00%	0	Total Est. Amperage Demand:	96 A
Telecommunications Rack	0	100.00%	0		

Notes:
1. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).
2. SHUNT TRIP OPERATED BREAKER. BREAKER SHALL BE SHUNT TRIPPED UPON HVAC SHUTDOWN SWITCH ACTIVATION.

PANELBOARD 01-PNL-A

Location: BLDG 1, RM 333
Supply From: DC-DP-A
Mounting: Surface
Enclosure: Type 1
Line Volts: 208
Neutral Volts: 120
Phases: 3
Wires 4
A.I.C Rating: 22k
Mains Rating: 225A
Mains: 225AF / 100AT / 3P / LSI

CKT	CIRCUIT DESCRIPTION	Trip	Poles	A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SPARE	100 A	3	0	1500					1	20 A	ACCESS CONTROL PANEL	2
3	"	"	"			0	0			3	100 A	SPARE	4
5	"	"	"					0	0	"	"	"	6
7	PROWS "001-RO-01-NRNA"	30 A	1	1680	0					"	"	"	8
9	BOOSTER PUMP "001-BS-01-NRNA"	15 A	2			291	1500			1	20 A	CLEAN AGENT FIRE CONTROL PANEL	10
11	"	"	"					291	2600	2	40 A	CONDENSING UNIT "001-CU-05-333/336A"	12
13	SPARE	20 A	1	0	2600					"	"	"	14
15	VRF UNIT "001-VRF-07-336A"	15 A	2			94	54			2	15 A	VRF UNIT "001-VRF-06-333"	16
17	"	"	"					94	54	"	"	"	18
19	SPARE	20 A	1	0	900					1	20 A	RECEPTACLES - RM 336A - SOUTH	20
21	SPARE	20 A	1			0	90			1	20 A	LIGHTING RM - 333	22
23	SPARE	20 A	1					0	1000	1	20 A	JACE / BMS PANEL	24
25	LIGHTING - RM 336A	20 A	1	267	360					1	20 A	RECEPTACLES - RM 333	26
27	RECEPTACLES - RM 336A - (BEHIND B-SIDE MDA)	20 A	1			1080	0			1	20 A	SPARE	28
29	SPARE	20 A	1					0	0	1	20 A	SPARE	30
31	DOOR HARDWARE POWER SUPPLY	20 A	1	500	0					1	20 A	SPARE	32
33	LIGHTING - RM - 336A SOUTH	20 A	1			252	0			1	20 A	SPARE	34
35	RECEPTACLES - RM 336A - (BEHIND B-SIDE MDA) & N	20 A	1					540	900	1	20 A	RECEPTACLES - RM 336A - NORTH	36
37	SPARE	20 A	1	540	0					1	20 A	SPARE	38
39	SPARE	20 A	1			0	0			1	20 A	SPARE	40
41	MCR EMERGENCY POWER OFF CONTROL PANEL	20 A	1					500	0	1	20 A	SPARE	42
43	SPARE	20 A	1	0	100					3	20 A	DPM	44
45	LIGHTING - RM 336A (BEHIND B-SIDE MDA)	20 A	1			167	100			"	"	"	46
47	SPARE	20 A	1					0	100	"	"	"	48
49	SPARE	20 A	1	0	100					3	70 A	SPD	50
51	SPARE	20 A	1			0	100			"	"	"	52
53	SPARE	20 A	1					0	100	"	"	"	54
			Total Load:	8547		3728		6179					
			Total Amps:	71		31		51					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	5200	125.00%	6500	Total Conn. Power Load:	18454 VA
Other	9058	100.00%	9058	Total Est. Power Demand:	19948 VA
Receptacle	3420	100.00% (NOTE 2)	3420	Total Conn. Amperage:	51 A
Lighting	776	125.00%	970	Total Est. Amperage Demand:	55 A
Telecommunications Rack	0	NOTE 1	0		

Notes:
1. PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021), TR RACK LOADS ARE DE-RATED FROM 5000VA TO 3500VA AT THE DSITRIBUTION PANEL.
2. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
3. DIGITAL POWER METER (DPM) AND SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

DATA CENTER - CONDUIT AND WIRE SCHEDULE - VA VT WHITE RIVER JUNCTION EHRM UPGRADES

CONDUIT TAG	SERVICE	ROUTING FROM	ROUTING TO	CONDUIT QTY	CONDUIT SIZE	CONDUCTORS (QTY) & SIZE	GROUND SIZE	VOLTAGE DROP	FAULT CURRENT	NOTES
			'A' SIDE CONDUIT AND WIRE SCHEDULE							
DC-P-01A	PANELBOARD "DC-MDP-E"	PANELBOARD "40_PB_MDP_E"	PANELBOARD "DC-MDP-E"	2	3-1/2"	(3) 350 KCMIL, (1) 500 KCMIL	(1) 1 AWG	0.99%	5,449	2
DC-P-02A	ATS "DC-ATS-A"	PANELBOARD "DC-MDP-E"	ATS "DC-ATS-A" EMERGENCY POWER	2	3-1/2"	(3) 350 KCMIL, (1) 500 KCMIL	(1) 1 AWG	1.03%	5,449	2
DC-P-03A	ATS "DC-ATS-B"	PANELBOARD "DC-MDP-E"	ATS "DC-ATS-B" EMERGENCY POWER VIA VAULT "VT-DC"	2	3-1/2"	(3) 350 KCMIL, (1) 500 KCMIL	(1) 1 AWG	1.68%	5,449	2
DC-P-04A	PANELBOARD "DC-DP-A"	ATS "DC-ATS-A"	PANELBOARD "DC-DP-A"	2	3-1/2"	(3) 350 KCMIL, (1) 500 KCMIL	(1) 1 AWG	1.59%	8,694	2
DC-P-05Aa	PANELBOARD "01-PNL-A"	PANELBOARD "DC-DP-A"	TRANSFORMER "01-TX-PNL-A"	1	3/4"	(3) 6 AWG	(1) 8 AWG	1.67%	7,299	-
DC-P-05Ab	PANELBOARD "01-PNL-A"	TRANSFORMER "01-TX-PNL-A"	PANELBOARD "01-PNL-A"	1	1-1/4"	(4) 3 AWG	(1) 6 AWG	0.17%	4,925	-
DC-P-06A	PANELBOARD "DC-MECH-A"	PANELBOARD "DC-DP-A"	PANELBOARD "DC-MECH-A"	1	2-1/2"	(4) 4/0 AWG	(1) 1 AWG	1.86%	7,372	-
DC-P-07A	CRAC UNIT "001-CRAC-01-336A"	PANELBOARD "DC-MECH-A"	CRAC UNIT "001-CRAC-01-336A" VIA DISCONNECT	1	3/4"	(3) 10 AWG	(1) 10 AWG	2.32%	7,372	-
DC-P-08A	CRAC UNIT "001-CRAC-03-336A"	PANELBOARD "DC-MECH-A"	CRAC UNIT "001-CRAC-03-336A" VIA DISCONNECT	1	3/4"	(3) 10 AWG	(1) 10 AWG	2.29%	7,372	-
DC-P-09A	CRAC UNIT "001-CRAC-05-336A"	PANELBOARD "DC-MECH-A"	CRAC UNIT "001-CRAC-05-336A" VIA DISCONNECT	1	3/4"	(2) 10 AWG	(1) 10 AWG	2.22%	7,372	-
DC-P-10A	CRAC UNIT "001-CRAC-07-336A"	PANELBOARD "DC-MECH-A"	CRAC UNIT "001-CRAC-07-336A" VIA DISCONNECT	1	3/4"	(3) 10 AWG	(1) 10 AWG	2.32%	7,372	-
DC-P-11A	CRAC UNIT "001-CRAC-09-336A"	PANELBOARD "DC-MECH-A"	CRAC UNIT "001-CRAC-09-336A" VIA DISCONNECT	1	3/4"	(2) 10 AWG	(1) 10 AWG	2.37%	7,372	-
DC-P-12A	UPS "UPS-A"	PANELBOARD "DC-DP-A"	UPS "UPS-A" VIA VAULT "VT-DC"	1	3-1/2"	(4) 500 KCMIL	(1) 1 AWG	2.60%	6,238	1
DC-P-13A	ENCLOSED CIRCUIT BREAKER "DC-ECB-TIE"	PANELBOARD "DC-DP-A"	ENCLOSED CIRCUIT BREAKER "DC-ECB-TIE" - A SIDE VIA VAULT "VT-DC"	2	3-1/2"	(3) 350 KCMIL, (1) 500 KCMIL	(1) 1 AWG	1.59%	10,366	2
DC-P-14A	CLEAN AGENT FIRE CONTROL PANEL	PANELBOARD "01-PNL-A"	CLEAN AGENT FIRE CONTROL PANEL	1	3/4"	(2) 10 AWG	(1) 10 AWG	1.14%	1,296	-
DC-P-15A	ACCESS CONTROL PANEL	PANELBOARD "01-PNL-A"	ACCESS CONTROL PANEL	1	3/4"	(2) 10 AWG	(1) 10 AWG	1.14%	1,296	-
DC-P-16A	PANELBOARD "31-MECH-A"	PANELBOARD "DC-DP-A"	PANELBOARD "31-MECH-A"	1	1"	(4) 6 AWG	(1) 8 AWG	1.84%	2,534	-
DC-P-17A	CONDENSING UNIT "31-COND-01-DC"	PANELBOARD "31-MECH-A"	CONDENSING UNIT "31-COND-01-DC" VIA DISCONNECT	1	3/4"	(3) 12 AWG	(1) 10 AWG	1.93%	2,534	-
DC-P-18A	CONDENSING UNIT "31-COND-03-DC"	PANELBOARD "31-MECH-A"	CONDENSING UNIT "31-COND-03-DC" VIA DISCONNECT	1	3/4"	(3) 12 AWG	(1) 10 AWG	1.93%	2,534	-
DC-P-19A	CONDENSING UNIT "31-COND-05-DC"	PANELBOARD "31-MECH-A"	CONDENSING UNIT "31-COND-05-DC" VIA DISCONNECT	1	3/4"	(3) 12 AWG	(1) 10 AWG	1.93%	2,534	-
DC-P-20A	CONDENSING UNIT "31-COND-07-DC"	PANELBOARD "31-MECH-A"	CONDENSING UNIT "31-COND-07-DC" VIA DISCONNECT	1	3/4"	(3) 12 AWG	(1) 10 AWG	1.93%	2,534	-
DC-P-21A	CONDENSING UNIT "31-COND-09-DC"	PANELBOARD "31-MECH-A"	CONDENSING UNIT "31-COND-09-DC" VIA DISCONNECT	1	3/4"	(3) 12 AWG	(1) 10 AWG	1.93%	2,534	-
DC-P-22A	PANELBOARD "P-UPS-A"	UPS "UPS-A"	PANELBOARD "P-UPS-A" VIA VAULT "VT-DC"	2	2-1/2"	(3) 4/0 AWG, (1) 300 KCMIL	(1) 400 KCMIL	1.75%	6,567	2
DC-P-23A	OVERHEAD BUSWAY CONNECTION BOX "A1"	PANELBOARD "P-UPS-A"	OVERHEAD BUSWAY CONNECTION BOX "A1"	1	1-1/4"	(3) 3 AWG, (1) 2 AWG	(1) 8 AWG	2.64%	6,567	2
DC-P-24A	OVERHEAD BUSWAY CONNECTION BOX "A2"	PANELBOARD "P-UPS-A"	OVERHEAD BUSWAY CONNECTION BOX "A2"	1	2-1/2"	(3) 250 KCMIL, (1) 350 KCMIL	(1) 4 AWG	2.20%	6,567	2
DC-P-25A	OVERHEAD BUSWAY CONNECTION BOX "A3"	PANELBOARD "P-UPS-A"	OVERHEAD BUSWAY CONNECTION BOX "A3"	1	2-1/2"	(3) 250 KCMIL, (1) 350 KCMIL	(1) 4 AWG	2.39%	6,567	2
			'B' SIDE CONDUIT AND WIRE SCHEDULE							
DC-P-01B	PANELBOARD "DC-MDP-N"	SWITCHBOARD "40_SB_MDP-N"	PANELBOARD "DC-MDP-N"	2	3-1/2"	(3) 350 KCMIL, (1) 500 KCMIL	(1) 1 AWG	0.86%	10,910	2
DC-P-02B	ATS "DC-ATS-A"	PANELBOARD "DC-MDP-N"	ATS "DC-ATS-A" NORMAL POWER VIA VAULT "VT-DC"	2	3-1/2"	(3) 350 KCMIL, (1) 500 KCMIL	(1) 1 AWG	1.55%	8,797	2
DC-P-03B	ATS "DC-ATS-B"	PANELBOARD "DC-MDP-N"	ATS "DC-ATS-B" NORMAL POWER	2	3-1/2"	(3) 350 KCMIL, (1) 500 KCMIL	(1) 1 AWG	0.93%	10,657	2
DC-P-04B	PANELBOARD "DC-DP-B"	ATS "DC-ATS-B"	PANELBOARD "DC-DP-B"	2	3-1/2"	(3) 350 KCMIL, (1) 500 KCMIL	(1) 1 AWG	1.77%	10,366	2
DC-P-05B	ENCLOSED CIRCUIT BREAKER "DC-ECB-TIE"	PANELBOARD "DC-DP-B"	ENCLOSED CIRCUIT BREAKER "DC-ECB-TIE" - B SIDE	2	3-1/2"	(3) 350 KCMIL, (1) 500 KCMIL	(1) 1 AWG	1.77%	10,366	2
DC-P-06B	UPS "UPS-B"	PANELBOARD "DC-DP-B"	UPS "UPS-B"	1	3-1/2"	(4) 500 KCMIL	(1) 1 AWG	2.00%	9,275	1
DC-P-07B	PANELBOARD "DC-MECH-B"	PANELBOARD "DC-DP-B"	PANELBOARD "DC-MECH-B" VIA VAULT "VT-DC"	1	3"	(4) 300 KCMIL	(1) 1 AWG	2.20%	7,398	
DC-P-08B	CRAC UNIT "001-CRAC-02-336A"	PANELBOARD "DC-MECH-B"	CRAC UNIT "001-CRAC-02-336A"	1	3/4"	(3) 10 AWG	(1) 10 AWG	2.51%	7,398	-
DC-P-09B	CRAC UNIT "001-CRAC-04-336A"	PANELBOARD "DC-MECH-B"	CRAC UNIT "001-CRAC-04-336A"	1	3/4"	(3) 10 AWG	(1) 10 AWG	2.58%	7,398	-
DC-P-10B	CRAC UNIT "001-CRAC-06-336A"	PANELBOARD "DC-MECH-B"	CRAC UNIT "001-CRAC-06-336A"	1	3/4"	(3) 10 AWG	(1) 10 AWG	2.59%	7,398	-
DC-P-11B	CRAC UNIT "001-CRAC-08-336A"	PANELBOARD "DC-MECH-B"	CRAC UNIT "001-CRAC-08-336A"	1	3/4"	(3) 10 AWG	(1) 10 AWG	2.64%	7,398	-
DC-P-12B	CRAC UNIT "001-CRAC-10-336A"	PANELBOARD "DC-MECH-B"	CRAC UNIT "001-CRAC-10-336A"	1	3/4"	(3) 10 AWG	(1) 10 AWG	2.73%	7,398	-
DC-P-13Ba	PANELBOARD "31-PNL-B"	PANELBOARD "DC-DP-B"	TRANSFORMER "DC-TX-PNL-B"	1	3/4"	(3) 8 AWG	(1) 10 AWG	1.84%	5,914	-
DC-P-13Bb	PANELBOARD "31-PNL-B"	TRANSFORMER "DC-TX-PNL-B"	PANELBOARD "31-PNL-B"	1	3/4"	(4) 3 AWG	(1) 8 AWG	0.13%	2,339	-
DC-P-14B	PANELBOARD "001-PNL-B-2"	PANELBOARD "31-PNL-B"	PANELBOARD "001-PNL-B-2" VIA VAULT "VT-DC"	1	1-1/4"	(4) 3 AWG	(1) 8 AWG	0.59%	1,326	-
DC-P-15B	PANELBOARD "31-MECH-B"	PANELBOARD "DC-DP-B"	PANELBOARD "31-MECH-B"	1	1"	(4) 6 AWG	(1) 8 AWG	1.91%	4,174	-
DC-P-16B	CONDENSING UNIT "31-COND-02-DC"	PANELBOARD "31-MECH-B"	CONDENSING UNIT "31-COND-02-DC" VIA DISCONNECT	1	3/4"	(3) 12 AWG	(1) 10 AWG	1.99%	4,174	-
DC-P-17B	CONDENSING UNIT "31-COND-04-DC"	PANELBOARD "31-MECH-B"	CONDENSING UNIT "31-COND-04-DC" VIA DISCONNECT	1	3/4"	(3) 12 AWG	(1) 10 AWG	1.99%	4,174	-
DC-P-18B	CONDENSING UNIT "31-COND-06-DC"	PANELBOARD "31-MECH-B"	CONDENSING UNIT "31-COND-06-DC" VIA DISCONNECT	1	3/4"	(3) 12 AWG	(1) 10 AWG	1.99%	4,174	-
DC-P-19B	CONDENSING UNIT "31-COND-08-DC"	PANELBOARD "31-MECH-B"	CONDENSING UNIT "31-COND-08-DC" VIA DISCONNECT	1	3/4"	(3) 12 AWG	(1) 10 AWG	1.99%	4,174	-
DC-P-20B	CONDENSING UNIT "31-COND-10-DC"	PANELBOARD "31-MECH-B"	CONDENSING UNIT "31-COND-10-DC" VIA DISCONNECT	1	3/4"	(3) 12 AWG	(1) 10 AWG	1.99%	4,174	-
DC-P-21B	PANELBOARD "P-UPS-B"	UPS "UPS-B"	PANELBOARD "P-UPS-B" VIA VAULT "VT-DC"	2	2-1/2"	(3) 4/0 AWG, (1) 300 KCMIL	(1) 6 AWG	1.75%	6,795	2
DC-P-22B	OVERHEAD BUSWAY CONNECTION BOX "B1"	PANELBOARD "P-UPS-B"	OVERHEAD BUSWAY CONNECTION BOX "B1"	1	1-1/4"	(3) 3 AWG, (1) 2 AWG	(1) 8 AWG	2.64%	6,795	2
DC-P-23B	OVERHEAD BUSWAY CONNECTION BOX "B2"	PANELBOARD "P-UPS-B"	OVERHEAD BUSWAY CONNECTION BOX "B2"	1	2-1/2"	(3) 250 KCMIL, (1) 350 KCMIL	(1) 4 AWG	2.20%	6,795	2
DC-P-24B	OVERHEAD BUSWAY CONNECTION BOX "B3"	PANELBOARD "P-UPS-B"	OVERHEAD BUSWAY CONNECTION BOX "B3"	1	2-1/2"	(3) 250 KCMIL, (1) 350 KCMIL	(1) 4 AWG	2.39%	6,795	2
			SPECIAL SYSTEMS - CONDUIT AND WIRE SCHEDULE							
DC-C-01	PANELBOARD "DC-DP-B" DPM	BMS PANEL	PANELBOARD "DC-DP-B" DPM	1	3/4"	(1) CAT6A	(1) 14 AWG	-	-	-
DC-C-02	PANELBOARD "DC-MDP-N" DPM	BMS PANEL	PANELBOARD "DC-MDP-N" DPM	1	3/4"	(1) CAT6A	(1) 14 AWG	-	-	-
DC-C-03	UPS "UPS-A" DPM	BMS PANEL	UPS "UPS-A" DPM	1	3/4"	(1) CAT6A	(1) 14 AWG	-	-	-
DC-C-04	UPS "UPS-B" DPM	BMS PANEL	UPS "UPS-B" DPM	1	3/4"	(1) CAT6A	(1) 14 AWG	-	-	-
DC-C-05	PANELBOARD "01-PNL-A" DPM	BMS PANEL	PANELBOARD "01-PNL-A" DPM	1	3/4"	(1) CAT6A	(1) 14 AWG	-	-	-
DC-C-06	PANELBOARD "DC-DP-A" DPM	BMS PANEL	PANELBOARD "DC-DP-A" DPM	1	3/4"	(1) CAT6A	(1) 14 AWG	-	-	-
DC-C-07	PANELBOARD "DC-MDP-E" DPM	BMS PANEL	PANELBOARD "DC-MDP-E" DPM	1	3/4"	(1) CAT6A	(1) 14 AWG	-	-	-
DC-C-08	OVERHEAD BUSWAY "A1" DPM	BMS PANEL	OVERHEAD BUSWAY "A1" DPM	1	3/4"	(1) CAT6A	(1) 14 AWG	-	-	-
DC-C-09	OVERHEAD BUSWAY "A2" DPM	BMS PANEL	OVERHEAD BUSWAY "A2" DPM	1	3/4"	(1) CAT6A	(1) 14 AWG	-	-	-
DC-C-10	OVERHEAD BUSWAY "A3" DPM	BMS PANEL	OVERHEAD BUSWAY "A3" DPM	1	3/4"	(1) CAT6A	(1) 14 AWG	-	-	-
DC-C-11	OVERHEAD BUSWAY "B1" DPM	BMS PANEL	OVERHEAD BUSWAY "B1" DPM	1	3/4"	(1) CAT6A	(1) 14 AWG	-	-	-
DC-C-12	OVERHEAD BUSWAY "B2" DPM	BMS PANEL	OVERHEAD BUSWAY "B2" DPM	1	3/4"	(1) CAT6A	(1) 14 AWG	-	-	-
DC-C-13	OVERHEAD BUSWAY "B3" DPM	BMS PANEL	OVERHEAD BUSWAY "B3" DPM	1	3/4"	(1) CAT6A	(1) 14 AWG	-	-	-
DC-C-15	PANELBOARD "001-PNL-B-2"	BMS PANEL	PANELBOARD "001-PNL-B-2"	1	3/4"	(1) CAT6A	(1) 14 AWG	-	-	-
DC-C-16	ATS "DC-ATS-A" CALL TO RUN	ATS "DC-ATS-A"	GENERATOR CONTROL PANEL	1	3/4"	(2) 14 AWG	(1) 14 AWG	-	-	-
DC-C-17	ATS "DC-ATS-B" CALL TO RUN	ATS "DC-ATS-B"	GENERATOR CONTROL PANEL	1	3/4"	(2) 14 AWG	(1) 14 AWG	-	-	-
DC-C-18	PANELBOARD "31-PNL-B" DPM	BMS PANEL	PANELBOARD "31-PNL-B" DPM	1	3/4"	(1) CAT6A	(1) 14 AWG	-	-	-
P-DPM	EXTERNAL DIGITAL POWER METER	SWITCHBOARD "40_SB_MDP-N"	EXTERNAL DIGITAL POWER METER	1	3/4"	SEE NOTE	(1) 10 AWG	-	-	3
DC-FA-01	CLEAN AGENT CONTROL PANEL	EXISTING FACP	CLEAN AGENT CONTROL PANEL	1	3/4"	(1) 4-PR STP 18 AWG CABLE	(1) 14 AWG	-	-	-

NOTE(S):
1. PROVIDE RACEWAYS AND CONDUCTORS PER MANUFACTURER'S REQUIREMENTS. COORDINATE WITH MANUFACTURER'S REQUIREMENTS TO PROVIDE A COMPLETE AND FULLY FUNCTIONING SYSTEM.
2. NEUTRAL IS UPSIZED.
3. PROVIDE MANUFACTURER'S CABLING.

Revisions: | Date:

CONSULTANT/ DISCIPLINE
DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD
A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032
SDB SPEESDESIGNBUILD

STAMP
LOUIS R. LITZKO
STATE OF WASHINGTON
55681
1-16-26
REGISTERED PROFESSIONAL ENGINEER

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

Drawing Title: BLDG 001 - ELECTRICAL SCHEDULES
Approved:

Phase: 100% CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Issue Date: 01/16/2026
Checked: NVP/DCW
Drawn: RTS/KDB

Project Number: 405-22-700
Building Number: 001
Drawing Number: 001EP705

BLDG 002 - PANELBOARD "02_PB_MDP2" CALCULATED LOAD INFORMATION SCHEDULE				
SYSTEM RATINGS: 800A BUS, 450A MCB, 208/120V, 3PH				
LOAD TYPE	DEMAND AMPS (A)	SYSTEM VOLTAGE	DEMAND VA	NOTES
GENERATOR 02_GN_GEN2-B2 PEAK DEMAND LOAD	212	208	76377	1
25% OF PEAK DEMAND (NEC 220.87)	-	-	19094	
ADDED DEMAND LOAD				
PANELBOARD "002-107A"	-	-	13475	2
REMOVED LOAD				
BUILDING 002 - RACK REDUCTION (-1.5kVA EA. RACK @ 1 RACKS TOTAL)	-	-	-1500	3
TOTAL DEMAND VA			107446	
TOTAL AMPERAGE			298	
% TOTAL LOAD			66%	4

NOTES:
1. PEAK DEMAND IS OBTAINED FROM ON-SITE INVESTIGATIONS AND EXISTING BUILDING 002 GENERATOR TEST DATA. BASED ON GENERATOR TOPOLOGY, A CONSERVATIVE DEMAND FACTOR OF 100% OF TOTAL LOAD IS APPLIED TO BUILDING 002.
2. ADDED LOAD CONSISTS OF NEW GENERAL RECEPTACLES, TR RACKS, HVAC AND/OR LIGHTING DEMAND LOADS; REFERENCE PANEL SCHEDULES FOR EXACT DEMAND LOAD INFORMATION.
3. PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021), TR RACK LOADS ARE DE-RATED FROM 5030VA TO 3500VA AT DISTRABUTION LEVEL.
4. TOTAL PERCENT LOADING IS COMPARED TO EQUIPMENT UPSTREAM OVER CURRENT PROTECTIVE DEVICE RATING OF 450A.

PANELBOARD "02_PB_DPB" METERING AND LOAD INFORMATION SCHEDULE				
SYSTEM RATINGS: 400A BUS, 300A MCB, 480/277V, 3PH				
LOAD TYPE	DEMAND AMPS (A)	SYSTEM VOLTAGE	DEMAND VA	NOTES
PEAK DEMAND LOAD	56	480	46674	1
25% OF PEAK DEMAND (NEC 220.87)	-	-	11668	
ADDED DEMAND LOAD				
PANELBOARD "002-107B"	-	-	6020	2
REMOVED LOAD				
BUILDING 002 - RACK REDUCTION (-1.5kVA EA. RACK @ 1 RACKS TOTAL)	-	-	-1500	3
TOTAL DEMAND VA			62862	
TOTAL AMPERAGE			76	
% TOTAL LOAD			25%	4

NOTES:
1. PEAK DEMAND IS PROVIDED FROM 30-DAY METERING STUDY. PEAK DEMAND RECORDED FROM 06/19/2025.
2. ADDED LOAD CONSISTS OF NEW GENERAL RECEPTACLES, TR RACKS, HVAC AND/OR LIGHTING DEMAND LOADS; REFERENCE PANEL SCHEDULES FOR EXACT DEMAND LOAD INFORMATION.
3. PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021), TR RACK LOADS ARE DE-RATED FROM 5000VA TO 3500VA AT DISTRABUTION LEVEL.
4. TOTAL PERCENT LOADING IS COMPARED TO EQUIPMENT MAIN OVER CURRENT PROTECTIVE DEVICE RATING OF 300A.

PANELBOARD 02-PB-MDP2 (REVISED)

Location: BLDG 02, RM IS-19 — **Line Volts:** 208 — **A.I.C Rating:** -
Supply From: MDP-37A — **Neutral Volts:** 120 — **Bus Rating:** 800A
Mounting: Surface — **Phases:** 3 — **Main Circuit Breaker:** 600AF / 600AT / 455AP-3P
Enclosure: Type 1 — **Wires** 4

VA PER PHASE

CKT	CIRCUIT DESCRIPTION	Trip	Poles	A	B	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
3	WATER TOWER PUMPS	100 A	3	5141			3	100 A	PANELBOARD 002-107A	2
5	"	"	"		2080		"	"	"	4
6	"	"	"			4921	"	"	"	6
7	UNKNOWN LOAD	225 A	3				-	-	SPACE	8
9	"	"	"				-	-	SPACE	10
11	"	"	"				-	-	SPACE	12
13	TO GEN SET PANEL	100 A	2				3	225 A	P1N-GS1	14
15	"	"	"				"	"	"	16
17	TO PANELBOARD "G"	60 A	3				-	-	-	18
19	"	"	"				3	100 A	PANEL IOP	20
21	"	"	"				"	"	"	22
23	UNKNOWN LOAD	600 A	3				-	-	-	24
25	"	"	"				3	200 A	TO WAREHOUSE	26
27	"	"	"				"	"	"	28
29	MCC2	600 A	3				"	"	"	30
31	"	"	"				3	125 A	TO PANELBOARD "L"	32
33	"	"	"				"	"	"	34
35	SPACE	"	"				"	"	"	36
37	SPACE	"	"				3	200 A	TO PANELBOARD "P"	38
39	SPACE	"	"				"	"	"	40
41	SPACE	"	"				"	"	"	42
	Total Load:			5141	2080	4921				
	Total Amps:			43	17	41				

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	5200	125.00%	6500	Total Conn. Power Load	12142 VA
Other	908	100.00%	908	Total Est. Power Demand	11975 VA
Receptacle	900	100.00% [NOTE 1]	900	Total Conn. Amperage	34 A
Lighting	134	125.00%	167	Total Est. Amperage Demand	33 A
Telecom Rack	5000	(NOTE 3)	3500		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. TELECOM RACK LOADS ARE DE-RATED FROM 5000VA PER RACK TO 3500VA PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021).
3. SCHEDULE SHOWN ONLY FOR BRANCH / FEEDER CIRCUIT SIZING ONLY. FOR OVERALL PANEL LOADING INFORMATION REFERENCE ASSOCIATED LOAD SCHEDULE.

PANELBOARD 02-PB-DPB (REVISED)

Location: BLDG 02, RM IS-19 — **Line Volts:** 480 — **A.I.C Rating:** 22K
Supply From: 02_PD_DPB — **Neutral Volts:** 277 — **Bus Rating:** 400A
Mounting: Surface — **Phases:** 3 — **Main Circuit Breaker:** 300AF / 300AT / 300AP / 3P
Enclosure: Type 1 — **Wires** 4

VA PER PHASE

CKT	CIRCUIT DESCRIPTION	Trip	Poles	A	B	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	2P-6B	30 A	3				3	60 A	SPARE	2
3	"	"	"				"	"	"	4
5	"	"	"				"	"	"	6
7	2-P-6A	30 A	3				3	40 A	2-P-4A	8
9	"	"	"				"	"	"	10
11	"	"	"				"	"	"	12
13	2-P-5B	40 A	3				3	40 A	2-P-4B	14
15	"	"	"				"	"	"	16
17	"	"	"				"	"	"	18
19	2-P-5A	40 A	3				3	40 A	SPARE	20
21	"	"	"				"	"	"	22
23	"	"	"				"	"	"	24
25	SPARE	40 A	3	2487			3	20 A	PANELBOARD "002-107B"	26
27	"	"	"		1767		"	"	"	28
29	"	"	"			1767	"	"	"	30
31	SPACE	"	3				3	100 A	2-P-3A	32
33	"	"	"				"	"	"	34
35	"	"	"				"	"	"	36
37	SPARE	100 A	3				3	100 A	2-P-3B	38
39	"	"	"				"	"	"	40
41	"	"	"				"	"	"	42
	Total Load:			2487	1767	1767				
	Total Amps:			9	6	6				

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	0	125.00%	0	Total Conn. Power Load	6020 VA
Other	300	100.00%	300	Total Est. Power Demand	4520 VA
Receptacle	720	100.00% [NOTE 1]	720	Total Conn. Amperage	7 A
Lighting	0	125.00%	0	Total Est. Amperage Demand	5 A
Telecom Rack	5000	(NOTE 2)	3500		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. TELECOM RACK LOADS ARE DE-RATED FROM 5000VA PER RACK TO 3500VA PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021).
3. SCHEDULE SHOWN ONLY FOR BRANCH / FEEDER CIRCUIT SIZING ONLY. FOR OVERALL PANEL LOADING INFORMATION REFERENCE ASSOCIATED LOAD SCHEDULE.

PANELBOARD 002-107A

Location: BLDG 002, RM 107 — **Line Volts:** 208 — **A.I.C Rating:** 22k
Supply From: 02_PB-MDP2 — **Neutral Volts:** 120 — **Bus Rating:** 225A
Mounting: Surface — **Phases:** 3 — **Main Circuit Breaker:** 225AF / 100AT / 3P
Enclosure: Type 1 — **Wires** 4

VA PER PHASE

CKT	CIRCUIT DESCRIPTION	Trip	Poles	A	B	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	20 A	1	720			1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"		1667	134	1	20 A	LIGHTING - TR ROOM	4
5	"	"	"			1667 2000	2	40 A	CONDENSING UNIT "002-CU-01-107"	6
7	SPARE	20 A	1	0 2000			"	"	"	8
9	SPARE	20 A	1		0 180		1	20 A	RECEPTACLES - OUTSIDE	10
11	SPARE	20 A	1			0 54	2	15 A	VRF UNIT "002-VRF-01-107"	12
13	SPARE	20 A	1	0 54			"	"	"	14
15	SPARE	20 A	1		0 0		1	20 A	SPARE	16
17	SPARE	20 A	1			0 0	1	20 A	SPARE	18
19	SPARE	20 A	1	0 0			1	20 A	SPARE	20
21	SPARE	20 A	1		0 0		1	20 A	SPARE	22
23	ACCESS CONTROL PANEL / DOOR POWER	20 A	1			500 0	1	20 A	SPARE	24
25	SPARE	20 A	1	0 100			3	30 A	SPD	26
27	SPARE	20 A	1		0 100		"	"	"	28
29	SPARE	20 A	1			0 100	"	"	"	30
	Total Load:			5141	2080	4921				
	Total Amps:			43	17	41				

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	5200	125.00%	6500	Total Conn. Power Load	12142 VA
Other	908	100.00%	908	Total Est. Power Demand	13475 VA
Receptacle	900	100.00%	900	Total Conn. Amperage	34 A
Lighting	134	125.00%	167	Total Est. Amperage Demand	37 A
Telecom Rack	5000	100.00%	5000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

PANELBOARD 002-107B

Location: BLDG 002, RM 107 — **Line Volts:** 208 — **A.I.C Rating:** 22k
Supply From: 02_PB_MDP2 — **Neutral Volts:** 120 — **Bus Rating:** 60A
Mounting: Surface — **Phases:** 3 — **Main Circuit Breaker:** 60AF / 60AT / 3P
Enclosure: Type 1 — **Wires** 4

VA PER PHASE

CKT	CIRCUIT DESCRIPTION	Trip	Poles	A	B	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	20 A	3	1667 720			1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"		1667 0		1	20 A	SPARE	4
5	"	"	"			1667 0	1	20 A	SPARE	6
7	SPARE	20 A	1	0 0			1	20 A	SPARE	8
9	SPARE	20 A	1		0 0		1	20 A	SPARE	10
11	SPARE	20 A	1			0 0	1	20 A	SPARE	12
13	SPARE	20 A	1	0 0			1	20 A	SPARE	14
15	SPARE	20 A	1		0 0		1	20 A	SPARE	16
17	SPARE	20 A	1			0 0	1	20 A	SPARE	18
19	SPARE	20 A	1	0 0			1	20 A	SPARE	20
21	SPARE	20 A	1		0 0		1	20 A	SPARE	22
23	SPARE	20 A	1			0 0	1	20 A	SPARE	24
25	SPARE	20 A	1	0 100			3	30 A	SPD	26
27	SPARE	20 A	1		0 100		"	"	"	28
29	SPARE	20 A	1			0 100	"	"	"	30
	Total Load:			2487	1767	1767				
	Total Amps:			21	15	15				

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	0	125.00%	0	Total Conn. Power Load	6020 VA
Other	300	100.00%	300	Total Est. Power Demand	6020 VA
Receptacle	720	100.00%	720	Total Conn. Amperage	17 A
Lighting	0	125.00%	0	Total Est. Amperage Demand	17 A
Telecom Rack	5000	100.00%	5000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) TO BE INTEGRAL TO PANEL (FACTORY INSTALLED).

BLDG 02 - CONDUIT AND WIRE SCHEDULE - VA VT WHITE RIVER JUNCTION EHRM UPGRADES									
CONDUIT TAG	SERVICE	ROUTING		CONDUIT		CONDUCTORS		VOLTAGE DROP	FAULT CURRENT	NOTES
		FROM	TO	QTY	SIZE	(QTY) & SIZE	GROUND SIZE			
002-P-01	PANELBOARD "002-107A"	PANELBOARD "02-PB-MDP2"	PANELBOARD "002-107A"	1	2-1/2"	(3) 3/0 AWG, (1) 4/0 AWG	6 AWG	1.77%	5,583	1
002-P-02A	PANELBOARD "002-107B"	PANELBOARD "02-MC-MCCB2"	TRANSFORMER "02-TX-PPB2"	1	3/4"	(3) 10 AWG	10 AWG	0.51%	1,972	-
002-P-02B	PANELBOARD "002-107B"	TRANSFORMER "02-TX-PPB2"	ENCLOSED CIRCUIT BREAKER "ECB-02-TX-PPB2"	1	1-1/4"	(3) 3 AWG, (1) 2 AWG	8 AWG	0.13%	1,540	1
002-P-03	PANELBOARD "002-107B"	ENCLOSED CIRCUIT BREAKER "ECB-02-TX-PPB2"	PANELBOARD "002-107B"	1	1-1/4"	(3) 3 AWG, (1) 2 AWG	8 AWG	0.48%	1,203	1
002-P-04	CONDENSING UNIT "002-CU-01-107"	PANELBOARD "002-107A"	CONDENSING UNIT "002-CU-01-107" VIA DISCONNECT	1	3/4"	(2) 8 AWG	10 AWG	2.59%	1,203	-
P-TR-1A	TYPICAL TELECOM ROOM DATA RACK POWER FEED (1-RACK), SIDE A	TYPICAL SOURCE A TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE A RECEPTACLE	1	3/4"	(4) 10 AWG	10 AWG	-	-	-
P-TR-1B	TYPICAL TELECOM ROOM DATA RACK POWER FEED (1-RACK), SIDE B	TYPICAL SOURCE B TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE B RECEPTACLE	1	3/4"	(4) 10 AWG	10 AWG	-	-	-
NOTE(S):										
1. NEUTRAL IS UPSIZED.										

GENERAL NOTES

1. CONTRACTOR SHALL UPDATE ALL PANEL CIRCUIT DIRECTORIES TO INDICATE IN ANY AND ALL CHANGES; ALL REVISED CIRCUIT DIRECTORIES SHALL BE TYPEWRITTEN.
2. FOR ALL "REVISED" PANEL SCHEDULES REFERENCE ASSOCIATED EQUIPMENT LOAD SCHEDULE FOR OVERALL PANEL LOAD. "REVISED" PANEL SCHEDULES ON THIS SHEET ARE SHOWN FOR ADDED BRANCH CIRCUIT SIZING ONLY.
3. ALL DIGITAL POWER METERS (DPM) AND SURGE PROTECTIVE DEVICES (SPD) ARE INTEGRAL TO ELECTRICAL DISTRIBUTION EQUIPMENT, UNLESS OTHERWISE NOTED.
4. SCHEDULES WITH GREY TEXT INDICATE EXISTING PANELBOARD RATINGS, CIRCUITS, AND LOADS. BLACK TEXT INDICATES REVISED CIRCUITS, PROVIDED EQUIPMENT, AND ADDITIONAL LOAD.

Revisions:	Date:

CONSULTANT/ DISCIPLINE

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LOUIS R. LITZAU — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 002 - ELECTRICAL SCHEDULES
Phase: 100% CONSTRUCTION DOCUMENTS
Approved:
FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Project Number: 405-22-700
Building Number: 002
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Drawing Number: 002EP701
Issue Date: 01/16/2026
Checked: NVP/DCW
Drawn: RTS/KDB

SWITCHBOARD "04_SB_SWBD" METERING AND LOAD INFORMATION SCHEDULE				
SYSTEM RATINGS: 800A BUS, 800A MCB, 208/120V, 3PH				
LOAD TYPE	DEMAND AMPS (A)	SYSTEM VOLTAGE	DEMAND VA	NOTES
PEAK DEMAND LOAD	69	208	24790	1
25% OF PEAK DEMAND (NEC 220.87)	-	-	6197	
ADDED DEMAND LOAD				
PANELBOARD "004-105A"	-	-	11138	2
PANELBOARD "004-105B"	-	-	1020	2
REMOVED LOAD				
BUILDING 004 - RACK REDUCTION (-1.5kVA EA. RACK @ 1 RACKS TOTAL)	-	-	-1500	3
		TOTAL DEMAND VA	41646	
		TOTAL AMPERAGE	116	
		% TOTAL LOAD	14%	4

NOTES:
1. PEAK DEMAND IS PROVIDED FROM 30-DAY METERING STUDY. PEAK DEMAND RECORDED FROM 08/18/2025.
2. ADDED LOAD CONSISTS OF NEW GENERAL RECEPTACLES, TR RACKS, HVAC AND/OR LIGHTING DEMAND LOADS; REDUNDANT B-SIDE OVERHEAD RECEPTACLE LOAD IS NOT INCLUDED IN POWER CALCULATIONS AS LOADS DO NOT OPERATE AT FULL LOAD SIMULTANEOUSLY. REFERENCE PANEL SCHEDULES FOR EXACT DEMAND LOAD INFORMATION.
3. PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021), TR RACK LOADS ARE DE-RATED FROM 5000VA TO 3500VA AT DISTRIBUTION LEVEL.
4. TOTAL PERCENT LOADING IS COMPARED TO EQUIPMENT MAIN OVER CURRENT PROTECTIVE DEVICE RATING OF 800A.

SWITCHBOARD PANEL: 04-SB-SWBD (REPLACEMENT)

Location: BLDG 4, RM BASEMENT
Supply From: 04-NFD-800 AMP-MAIN DISCONNECT
Mounting: Surface
Enclosure: Type 1

Line Volts: 208
Neutral Volts: 120
Phases: 3
Wires 4

A.I.C Rating: 42K
Bus Rating: 800A
Main Circuit Breaker: 800AF / 800AT / 3P / LSI

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A		VA PER PHASE B		VA PER PHASE C		Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	PANELBOARD "C"	100 A	3	0	0					3	200 A	PANELBOARD "B"	2
3	"	"	"			0	0			"	"	"	4
5	"	"	"					0	0	"	"	"	6
7	METER-1	200 A	2	0	0					2	200 A	METER-3	8
9	"	"	"			0	0			"	"	"	10
11	PANELBOARD "A"	125 A	3					0	0	3	200 A	PANELBOARD "D"	12
13	"	"	"	0	0					"	"	"	14
15	"	"	"			0	0			"	"	"	16
17	UNKOWN LOAD	200 A	3					0	0	3	200 A	METER-2	18
19	"	"	"	0	0					"	"	"	20
21	"	"	"			0	0			"	"	"	22
23	**PANELBOARD 004-105A**	**100 A**	**3**	2031	1767			4231	2487	**3**	**100 A**	**PANELBOARD 004-105B**	**24**
25	**"**	**"**	**"**			4011	1767			**"**	**"**	**"**	**26**
27	**"**	**"**	**"**					0	0	**"**	**"**	**"**	**28**
29	**SPACE**	**-**	**1**	0	100					**1**	**-**	**SPACE**	**30**
31	**SPACE**	**-**	**1**			0	100			**3**	**70 A**	**SURGE PROTECTION DEVICE**	**32**
33	**SPACE**	**-**	**1**					0	100	**"**	**"**	**"**	**34**
35	**SPACE**	**-**	**1**							**"**	**"**	**"**	**36**
37	**SPACE**	**-**	**1**	0	100					**3**	**20 A**	**DIGITAL POWER METER**	**38**
39	**SPACE**	**-**	**1**			0	100			**"**	**"**	**"**	**40**
41	**SPACE**	**-**	**1**					0	100	**"**	**"**	**"**	**42**
			Total Load:	3997		5977		6917					
			Total Amps:	33		50		58					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	3380	125.00%	4225	Total Conn. Power Load:	16892 VA
Other	6808	100.00%	6808	Total Est. Power Demand:	16258 VA
Receptacle	1620	100.00%	1620	Total Conn. Amperage:	47 A
Lighting	84	125.00%	105	Total Est. Amperage Demand:	45 A
Telecom Rack	5000	100.00%	3500		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. DIGITAL POWER METER (DPM) AND SURGE PROTECTION DEVICE (SPD) TO BE INTEGRAL TO PANEL (FACTORY INSTALLED).
3. TELECOM RACK LOADS ARE DE-RATED FROM 5000VA PER RACK TO 3500VA PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021).
4. REDUNDANT LOADS NOT A/B OVERHEAD RACK RECEPTACLES NOT INCLUDED IN POWER CALCULATIONS AS LOADS DO NOT OPERATE AT FULL LOAD SIMULTANEOUSLY.
5. SCHEDULE SHOWN ONLY FOR BRANCH / FEEDER CIRCUIT SIZING ONLY. FOR OVERALL PANEL LOADING INFORMATION REFERENCE ASSOCIATED LOAD SCHEDULE.

PANELBOARD 004-105A

Location: BLDG 004, RM 105
Supply From: 04-SB-SWBD
Mounting: Surface
Enclosure: Type 1

Line Volts: 208
Neutral Volts: 120
Phases: 3
Wires 4

A.I.C Rating: 22K
Bus Rating: 100A
Main Circuit Breaker: 100AF / 100AT / 3P

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A		VA PER PHASE B		VA PER PHASE C		Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	20 A	3	1867	720					1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"			1687	84			1	20 A	LIGHTING - TR ROOM	4
5	"	"	"					1667	1650	2	30 A	CONDENSING UNIT "004-CU-01-105"	6
7	SPARE	20 A	1	0	1690					"	"	"	8
9	SPARE	20 A	1			0	180			1	20 A	CONVENIENCE RECEPTACLE	10
11	SPARE	20 A	1					0	54	2	15 A	VRF "004-VRF-01-105"	12
13	SPARE	20 A	1	0	54					"	"	"	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	ACCESS CONTROL PANEL / DOOR POWER	20 A	1					500	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	100					3	30 A	SPD	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	4231		2031		4011					
			Total Amps:	35		17		33					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	3380	125.00%	4225	Total Conn. Power Load:	10272 VA
Other	908	100.00%	908	Total Est. Power Demand:	11138 VA
Receptacle	900	100.00% (NOTE 1)	900	Total Conn. Amperage:	29 A
Lighting	84	125.00%	105	Total Est. Amperage Demand:	31 A
Telecom Rack	5000	100.00%	5000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

PANELBOARD 004-105B

Location: BLDG 004, RM 105
Supply From: 04-SB-SWBD
Mounting: Surface
Enclosure: Type 1

Line Volts: 208
Neutral Volts: 120
Phases: 3
Wires 4

A.I.C Rating: 22k
Bus Rating: 100A
Main Circuit Breaker: 100AF / 100AT / 3P

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A		VA PER PHASE B		VA PER PHASE C		Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	20 A	3	1667	720					1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"			1667	0			1	20 A	SPARE	4
5	"	"	"					1667	0	1	20 A	SPARE	6
7	SPARE	20 A	1	0	0					1	20 A	SPARE	8
9	SPARE	20 A	1			0	0			1	20 A	SPARE	10
11	SPARE	20 A	1					0	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	SPARE	20 A	1					0	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	100					3	30 A	SPD	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	2487		1767		1767					
			Total Amps:	21		15		15					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	0	125.00%	0	Total Conn. Power Load:	6020 VA
Other	300	100.00%	300	Total Est. Power Demand:	6020 VA
Receptacle	720	100.00% (NOTE 1)	720	Total Conn. Amperage:	17 A
Lighting	0	125.00%	0	Total Est. Amperage Demand:	17 A
Telecom Rack	5000	100.00%	5000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) TO BE INTEGRAL TO PANEL (FACTORY INSTALLED).

BLDG 04 - CONDUIT AND WIRE SCHEDULE - VA VT WHITE RIVER JUNCTION EHRM UPGRADES										
CONDUIT TAG	SERVICE	ROUTING		CONDUIT		CONDUCTORS		VOLTAGE DROP	FAULT CURRENT	NOTES
		FROM	TO	QTY	SIZE	(QTY) & SIZE	GROUND SIZE			
004-P-01	SWITCHBOARD "04_SB_SWBD"	JUNCTION BOX	SWITCHBOARD "04_SB_SWBD"	2	3-1/2"	(3) 500 KCMIL, (1) 700 KCMIL	1/0 AWG	0.08%	16,581	1
004-P-02	PANELBOARD "04-105A"	SWITCHBOARD "04_SB_SWBD"	PANELBOARD "04-105A"	1	1-1/4"	(3) 3 AWG, (1) 2 AWG	8 AWG	0.85%	3,766	1
004-P-03	PANELBOARD "04-105B"	SWITCHBOARD "04_SB_SWBD"	PANELBOARD "04-105B"	1	1-1/4"	(3) 3 AWG, (1) 2 AWG	8 AWG	0.11%	9,305	1
004-P-04	CONDENSING UNIT "004-CU-01-105"	PANELBOARD "04-105A"	CONDENSING UNIT "004-CU-01-105" VIA DISCONNECT	1	3/4"	(2) 8 AWG	10 AWG	0.86%	3,766	-
P-TR-1A	TYPICAL TELECOM ROOM DATA RACK POWER FEED (1-RACK), SIDE A	TYPICAL SOURCE A TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE A RECEPTACLE	1	3/4"	(4) 10 AWG	10 AWG	-	-	-
P-TR-1B	TYPICAL TELECOM ROOM DATA RACK POWER FEED (1-RACK), SIDE B	TYPICAL SOURCE B TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE B RECEPTACLE	1	3/4"	(4) 10 AWG	10 AWG	-	-	-
NOTE(S): 1. NEUTRAL IS UPSIZED.										

GENERAL NOTES

1. CONTRACTOR SHALL UPDATE ALL PANEL CIRCUIT DIRECTORIES TO INDICATE IN ANY AND ALL CHANGES; ALL REVISED CIRCUIT DIRECTORIES SHALL BE TYPEWRITTEN.
2. FOR ALL "REVISED" PANEL SCHEDULES REFERENCE ASSOCIATED EQUIPMENT LOAD SCHEDULE FOR OVERALL PANEL LOAD. "REVISED" PANEL SCHEDULES ON THIS SHEET ARE SHOWN FOR ADDED BRANCH CIRCUIT SIZING ONLY.
3. ALL DIGITAL POWER METERS (DPM) AND SURGE PROTECTIVE DEVICES (SPD) ARE INTEGRAL TO ELECTRICAL DISTRIBUTION EQUIPMENT, UNLESS OTHERWISE NOTED.
4. SCHEDULES WITH GREY TEXT INDICATE EXISTING PANELBOARD RATINGS, CIRCUITS, AND LOADS. BLACK TEXT INDICATES REVISED CIRCUITS, PROVIDED EQUIPMENT, AND ADDITIONAL LOAD.

Revisions:	Date:

CONSULTANT/ DISCIPLINE

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STATE OF WASHINGTON
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1-16-26
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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	BLDG 004 - ELECTRICAL SCHEDULES
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Project Number	405-22-700
Building Number	004
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Drawing Number	004EP701
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB

TAP BOX "06_SP_PNL-6" METERING AND LOAD INFORMATION SCHEDULE

SYSTEM RATINGS: 255A BUS, 208/120V, 3PH

LOAD TYPE	DEMAND AMPS (A)	SYSTEM VOLTAGE	DEMAND VA	NOTES
PEAK DEMAND LOAD	55	208	19815	1
25% OF PEAK DEMAND (NEC 220.87)	-	-	4954	
ADDED DEMAND LOAD				
PANELBOARD "006-MDP"	-	-	600	
PANELBOARD "006-B1AA"	-	-	12425	2
PANELBOARD "006-B1AB"	-	-	1020	2
REMOVED LOAD				
BUILDING 006 - RACK REDUCTION (-1.5kVA EA. RACK @ 1 RACKS TOTAL)	-	-	-1500	3
TOTAL DEMAND VA			37313	
TOTAL AMPERAGE			104	
% TOTAL LOAD			41%	4

NOTES:
1. PEAK DEMAND IS PROVIDED FROM 30-DAY METERING STUDY. PEAK DEMAND RECORDED FROM 06/05/2025.
2. ADDED LOAD CONSISTS OF NEW GENERAL RECEPTACLES, TR RACKS, HVAC AND/OR LIGHTING DEMAND LOADS; REDUNDANT B-SIDE OVERHEAD RECEPTACLE LOAD IS NOT INCLUDED IN POWER CALCULATIONS AS LOADS DO NOT OPERATE AT FULL LOAD SIMULTANEOUSLY. REFERENCE PANEL SCHEDULES FOR EXACT DEMAND LOAD INFORMATION.
3. PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021), TR RACK LOADS ARE DE-RATED FROM 5000VA TO 3500VA AT DISTRABUTION LEVEL.
4. TOTAL PERCENT LOADING IS COMPARED TO FEEDER AMPACITY OF 255A.

PANELBOARD: 006-MDP

Location: BLDG 6, RM B1A
Supply From: 00_SP_T-101
Mounting: Surface
Enclosure: Type 1
Volts: 208/120V Wye
Phases: 3
Wires 4
A.I.C Rating: 22k
Bus Rating: 400A
Main Circuit Breaker: 400AF / 225AT / 3P / LSI

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SPARE	20 A	1	0	2487					3	100 A	PANELBOARD 006-B1AB	2
3	SPARE	20 A	1			0	1767			"	"	"	4
5	PANELBOARD 006-B1AA	100 A	3					4746	1767	"	"	"	6
7	"	"	"	2031	0					3	100 A	PANELBOARD "6B"	8
9	"	"	"			4526	0			"	"	"	10
11	PANELBOARD "6A"	100 A	3					0	0	"	"	"	12
13	"	"	"	0	0					1	20 A	SPARE	14
15	"	"	"			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	100					3	70 A	SPD	20
21	SPARE	20 A	1			0	100			"	"	"	22
23	SPARE	20 A	1					0	100	"	"	"	24
25	SPARE	20 A	1	0	100					3	20 A	DPM	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:		4717		6492		6712				
			Total Amps:		39		54		56				

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	4410	125.00%	5512	Total Conn. Power Load:	17922 VA
Other	1808	100.00%	1808	Total Est. Power Demand:	12545 VA
Receptacle	1620	100.00%	1620	Total Conn. Amperage:	50 A
Lighting	84	125.00%	105	Total Est. Amperage Demand:	35 A
Telecom Rack	10000	100.00%	3500		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. DIGITAL POWER METER (DPM) AND SURGE PROTECTION DEVICE (SPD) TO BE INTEGRAL TO PANEL (FACTORY INSTALLED).
3. PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021), TR RACK LOADS ARE DE-RATED FROM 5000VA PER RACK TO 3500VA AT THE DISTRIBUTION PANEL.
4. LOAD CALCULATIONS ONLY PROVIDED FOR NEW LOADS ONLY. REFERENCE ASSOCIATED METERING AND LOAD SCHEDULES FOR ADDITIONAL INFORMATION.

PANELBOARD 006-B1AA

Location: BLDG 6, RM B1A
Supply From: 006-MDP
Mounting: Surface
Enclosure: Type 1
Volts: 208/120V Wye
Phases: 3
Wires 4
A.I.C Rating: 22k
Bus Rating: 100A
Main Circuit Breaker: 100AF / 100AT / 3P

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	20 A	3	1667	720					1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"			1667	84			1	20 A	LIGHTING - TR ROOM	4
5	"	"	"					1667	2205	2	20 A	CONDENSING UNIT "001-CU-01-B1A"	6
7	SPARE	20 A	1	0	2205					"	"	"	8
9	SPARE	20 A	1			0	180			1	20 A	CONVENIENCE RECEPTACLE	10
11	SPARE	20 A	1					0	54	2	15 A	VRF UNIT "006-VRF-01-B1A"	12
13	SPARE	20 A	1	0	54					"	"	"	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	ACCESS CONTROL PANEL / DOOR POWER	20 A	1					500	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	100					3	30 A	SPD	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:		4746		2033		4526				
			Total Amps:		40		17		38				

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	4410	125.00%	5512	Total Conn. Power Load:	11302 VA
Other	908	100.00%	908.16	Total Est. Power Demand:	12425 VA
Receptacle	900	100.00%	900	Total Conn. Amperage:	31 A
Lighting	84	125.00%	105	Total Est. Amperage Demand:	34 A
Telecom Rack	5000	100.00%	5000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

PANELBOARD 006-B1AB

Location: BLDG 6, RM B1A
Supply From: 006-MDP
Mounting: Surface
Enclosure: Type 1
Volts: 208/120V Wye
Phases: 3
Wires 4
A.I.C Rating: 22k
Bus Rating: 100A
Main Circuit Breaker: 100AF / 100AT / 3P

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	20 A	3	1667	720					1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"			1667	0			1	20 A	SPARE	4
5	"	"	"					1667	0	1	20 A	SPARE	6
7	SPARE	20 A	1	0	0					1	20 A	SPARE	8
9	SPARE	20 A	1			0	0			1	20 A	SPARE	10
11	SPARE	20 A	1					0	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	SPARE	20 A	1					0	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	100					3	30 A	SPD	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:		2487		1767		1767				
			Total Amps:		21		15		15				

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	0	125.00%	0	Total Conn. Power Load:	6020 VA
Other	300	100.00%	300	Total Est. Power Demand:	6020 VA
Receptacle	720	100.00%	720	Total Conn. Amperage:	17 A
Lighting	0	125.00%	0	Total Est. Amperage Demand:	17 A
Telecom Rack	5000	100.00%	5000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

BLDG 06 - CONDUIT AND WIRE SCHEDULE - VA VT WHITE RIVER JUNCTION EHRM UPGRADES

CONDUIT TAG	SERVICE	ROUTING FROM	ROUTING TO	CONDUIT QTY	CONDUIT SIZE	CONDUCTORS (QTY) & SIZE	CONDUCTORS GROUND SIZE	VOLTAGE DROP	FAULT CURRENT	NOTES
006-P-01	PANELBOARD "006-MDP"	INSULATED TAP IN '06_SP_PNL-6'	PANELBOARD "006-MDP"	1	2-1/2"	(3) 250 KCMIL, (1) 350 KCMIL	2 AWG	0.97%	7,212	1
006-P-02	PANELBOARD "06-B1AA"	PANELBOARD "006-MDP"	PANELBOARD "06-B1AA"	1	1-1/4"	(3) 3 AWG, (1) 2 AWG	8 AWG	1.23%	4,744	1
006-P-03	PANELBOARD "06-B1AB"	PANELBOARD "006-MDP"	PANELBOARD "06-B1AB"	1	1-1/4"	(3) 3 AWG, (1) 2 AWG	8 AWG	0.98%	4,456	1
006-P-04	PANELBOARD "06_PB_PNL-6B"	PANELBOARD "006-MDP"	PANELBOARD "06_PB_PNL-6B"	1	2-1/2"	(4) 4/0 AWG	4 AWG	0.97%	5,758	-
006-P-05	PANELBOARD "06_PB_PNL-6A"	PANELBOARD "006-MDP"	PANELBOARD "06_PB_PNL-6A"	1	2-1/2"	(4) 4/0 AWG	4 AWG	0.97%	5,758	-
006-P-06	CONDENSING UNIT "006-CU-01-B1A"	PANELBOARD "06-B1AA"	CONDENSING UNIT "006-CU-01-B1A" VIA DISCONNECT	1	3/4"	(2) 8 AWG	10 AWG	1.26%	4,744	-
P-TR-1A	TYPICAL TELECOM ROOM DATA RACK POWER FEED (1-RACK), SIDE A	TYPICAL SOURCE A TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE A RECEPTACLE	1	3/4"	(4) 10 AWG	10 AWG	-	-	-
P-TR-1B	TYPICAL TELECOM ROOM DATA RACK POWER FEED (1-RACK), SIDE B	TYPICAL SOURCE B TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE B RECEPTACLE	1	3/4"	(4) 10 AWG	10 AWG	-	-	-

NOTE(S):
1. NEUTRAL IS UPSIZED.

GENERAL NOTES

1. CONTRACTOR SHALL UPDATE ALL PANEL CIRCUIT DIRECTORIES TO INDICATE IN ANY AND ALL CHANGES; ALL REVISED CIRCUIT DIRECTORIES SHALL BE TYPEWRITTEN.
2. FOR ALL "REVISED" PANEL SCHEDULES REFERENCE "METERING AND LOAD INFORMATION SCHEDULE" LOCATED ON SHEET EP701 FOR OVERALL PANEL LOAD. "REVISED" PANEL SCHEDULES ON THIS SHEET ARE SHOWN FOR ADDED BRANCH CIRCUIT SIZING ONLY.
3. ALL DIGITAL POWER METERS (DPM) AND SURGE PROTECTIVE DEVICES (SPD) ARE INTEGRAL TO ELECTRICAL DISTRIBUTION EQUIPMENT, UNLESS OTHERWISE NOTED.
4. EXISTING, REVISED, OR REPLACEMENT SCHEDULES WITH GREY TEXT INDICATE EXISTING PANELBOARD RATINGS, CIRCUITS, AND LOADS. BLACK TEXT INDICATES REVISED CIRCUITS, PROVIDED EQUIPMENT, AND ADDITIONAL LOAD.

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032
SPEESDESIGNBUILD

STAMP

LOUIS R. LITALO — STATE OF WASHINGTON — 156681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 006 - ELECTRICAL SCHEDULES
Phase: 100% CONSTRUCTION DOCUMENTS
Approved:
FULLY SPRINKLERED
Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Project Number: 405-22-700
Building Number: 006
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Drawing Number: 006EP701
Issue Date: 01/16/2026
Checked: NVP/DCW
Drawn: RTS/KDB

VA FORM 08 - 6231
16/01/2026 3:58:45 am
Autodesk Docs://405-22-700 VA VT White River Junction EHRM IU/VAWR_GENERAL SHEETS_EL_SDB.rvt

PANELBOARD "07_PB_PNL-7" METERING AND LOAD INFORMATION SCHEDULE				
SYSTEM RATINGS: 225A BUS, 225A MCB, 208/120V, 3PH				
LOAD TYPE	DEMAND AMPS (A)	SYSTEM VOLTAGE	DEMAND VA	NOTES
PEAK DEMAND LOAD	69	208	24703	1
25% OF PEAK DEMAND (NEC 220.87)	–	-	6176	
ADDED DEMAND LOAD				
PANELBOARD "PNL-7"	–	-	5600	
PANELBOARD "007-B3A"	–	-	11092	2
PANELBOARD "007-B3B"	–	-	1020	2
REMOVED LOAD				
BUILDING 007 - RACK REDUCTION (-1.5kVA EA. RACK @ 1 RACKS TOTAL)	–	-	-1500	3
		TOTAL DEMAND VA	47091	
		TOTAL AMPERAGE	131	
		% TOTAL LOAD	58%	4

NOTES:
1. PEAK DEMAND IS PROVIDED FROM 30-DAY METERING STUDY. PEAK DEMAND RECORDED FROM 08/17/2025.
2. ADDED LOAD CONSISTS OF NEW GENERAL RECEPTACLES, TR RACKS, HVAC AND/OR LIGHTING DEMAND LOADS; REDUNDANT B-SIDE OVERHEAD RECEPTACLE LOAD IS NOT INCLUDED IN POWER CALCULATIONS AS LOADS DO NOT OPERATE AT FULL LOAD SIMULTANEOUSLY. REFERENCE PANEL SCHEDULES FOR EXACT DEMAND LOAD INFORMATION.
3. PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021), TR RACK LOADS ARE DE-RATED FROM 5000VA TO 3500VA AT SUBSTATION LEVEL.
4. TOTAL PERCENT LOADING IS COMPARED TO EQUIPMENT MAIN OVER CURRENT PROTECTIVE DEVICE RATING OF 225A.

PANELBOARD PNL-7 (EXISTING)

Location: BLDG 07, RM B1 — **Volts:** 208/120V Wye — **A.I.C Rating:** -
Supply From: 07-EB-BLDG-7 — **Phases:** 3 — **Bus Rating:** 225A
Mounting: Surface — **Wires** 4 — **Main Circuit Breaker:** 225AF / 225AT / 3P
Enclosure: Type 1

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	KITCHEN LIGHTS	15 A	1	0	0					1	20 A	1ST FLOOR REC.	2
3	BASEMENT LIGHTS	20 A	1			0	0			1	20 A	ROOM 107 LIGHTS	4
5	DISHWASHER	20 A	1					0	0	1	20 A	KITCHEN REC. / HEAT VALVE BASE.	6
7	BASEMENT REC.	20 A	1	0	0					1	20 A	OUTSIDE REC.	8
9	ROOM 107 A/C REC.	20 A	1			0	0			1	15 A	UPSTAIRS & OUTSIDE FLOOD REC.	10
11	ROOM 107 REC.	20 A	1					0	0	1	20 A	ROOM 107 REC.	12
13	ROOM 105 REC.	20 A	1	0	0					1	20 A	ROOM 105 REC.	14
15	ROOM 106 REC.	20 A	1			0	0			1	20 A	ROOM 105 A/C REC.	16
17	ROOM 106 A/C REC.	20 A	1					0	0	1	20 A	ROOM 103 & 104 REC. **(NOTE 2)**	18
19	ROOM 103 REC.	20 A	1	0	0					1	20 A	ROOM 103 A/C REC. **(NOTE 2)**	20
21	ROOM 206 REC.	20 A	1			0	0			1	20 A	ROOM 204 REC. **(NOTE 2)**	22
23	ROOM 203 REC.	20 A	1					0	0	1	20 A	ROOM 203 A/C REC. **(NOTE 2)**	24
25	ROOM 206 A/C REC.	20 A	1	0	0					1	20 A	ROOM 206 A/C REC. **(NOTE 2)**	26
27	ROOM 107 220 REC.	20 A	2			0	0			1	20 A	REFRIGERATOR REC. **(NOTE 2)**	28
29	"	"	"					0	0	2	60 A	U.V.P.S. REC.	30
31	WATER HEATER	60 A	2	0	0					2	60 A	WATER HEATER	32
33	"	"	"			0	0			3	100 A	PANELBOARD "7A"	34
35	CONDENSATION PUMP	20 A	2					0	0	"	"	"	36
37	"	"	"	0	0					"	"	"	38
39	DATA RM RECEP.	20 A	1			0	0			"	"	"	40
41	DATA REC.	30 A	1					0	0	1	30 A	LANDIST STAFFA	42
			Total Load	0		0		0					
			Total Amps:	0		0		0					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	0	125.00%	0	Total Conn. Power Load:	0 VA
Other	0	100.00%	0	Total Est. Power Demand:	0 VA
Receptacle	0	100.00%	0	Total Conn. Amperage:	0 A
Lighting	0	125.00%	0	Total Est. Amperage Demand:	0 A
Telecom Rack	0	100.00%	0		

Notes:
1. PANEL SCHEDULE SHOWN FOR INFORMATIONAL PURPOSED ONLY. REFERENCE ASSOCIATED METERING ALD LOAD SCHEDULE FOR LOADING VALUES.
2. EXISTING LOAD SHALL BE RELOCATED TO PANELBOARD "PNL-7A". REFERENCE ASSOCIATED PANELBOARD FOR ADDITIONAL INFORMATION.

PANELBOARD PNL-7 (REVISED)

Location: BLDG 07, RM B1 — **Line Volts:** 208 — **A.I.C Rating:** -
Supply From: 07-EB-BLDG-7 — **Neutral Volts:** 120 — **Bus Rating:** 225A
Mounting: Surface — **Phases:** 3 — **Main Circuit Breaker:** 225AF / 225AT / 225AP / 3P
Enclosure: Type 1 — **Wires** 4

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	KITCHEN LIGHTS	15 A	1	0	0					1	20 A	1ST FLOOR REC.	2
3	BASEMENT LIGHTS	20 A	1			0	0			1	20 A	ROOM 107 LIGHTS	4
5	DISHWASHER	20 A	1					0	0	1	20 A	KITCHEN REC. / HEAT VALVE BASE.	6
7	BASEMENT REC.	20 A	1	0	0					1	20 A	OUTSIDE REC.	8
9	ROOM 107 A/C REC.	20 A	1			0	0			1	15 A	UPSTAIRS & OUTSIDE FLOOD REC.	10
11	ROOM 107 REC.	20 A	1					0	0	1	20 A	ROOM 107 REC.	12
13	ROOM 105 REC.	20 A	1	0	0					1	20 A	ROOM 105 REC.	14
15	ROOM 106 REC.	20 A	1			0	0			1	20 A	ROOM 105 A/C REC.	16
17	ROOM 106 A/C REC.	20 A	1					0	2487	3	100 A	**PANELBOARD 07-B3B**	18
19	ROOM 103 REC.	20 A	1	0	1767					"	"	"	20
21	ROOM 206 REC.	20 A	1			0	1767			"	"	"	22
23	ROOM 203 REC.	20 A	1					0	4177	3	100 A	**PANELBOARD 07-B3A**	24
25	ROOM 206 A/C REC.	20 A	1	0	2080					"	"	"	26
27	ROOM 107 220 REC.	20 A	2			0	3957			"	"	"	28
29	"	"	"					0	0	2	20 A	U.V.P.S. REC.	30
31	WATER HEATER	60 A	2	0	0					2	60 A	WATER HEATER	32
33	"	"	"			0	0			"	"	"	34
35	CONDENSATION PUMP	20 A	2					0	0	3	100 A	PANELBOARD "7A"	36
37	"	"	"	0	0					"	"	"	38
39	DATA RM RECEP.	20 A	1			0	0			"	"	"	40
41	DATA REC.	30 A	1					0	0	1	30 A	LANDIST STAFFA	42
			Total Load	3847		5723		6663					
			Total Amps:	32		48		56					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	3380	125.00%	4225	Total Conn. Power Load:	16234 VA
Other	6100	100.00%	6100	Total Est. Power Demand:	15612 VA
Receptacle	1620	100.00% (NOTE 1)	1620	Total Conn. Amperage:	45 A
Lighting	134	125.00%	167	Total Est. Amperage Demand:	43 A
Telecom Rack	5000	NOTE 2	3500		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. TELECOM RACK LOADS ARE DE-RATED FROM 5000VA PER RACK TO 3500VA PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021).
3. REDUNDANT LOADS NOT A/B OVERHEAD RACK RECEPTACLES NOT INCLUDED IN POWER CALCULATIONS AS LOADS DO NOT OPERATE AT FULL LOAD SIMULTANEOUSLY.
4. SCHEDULE SHOWN ONLY FOR BRANCH / FEEDER CIRCUIT SIZING ONLY. FOR OVERALL PANEL LOADING INFORMATION REFERENCE ASSOCIATED LOAD SCHEDULE.
5. LOAD FROM RELOCATED CIRCUITS NOT INCLUDED IN ADDED LOAD CALCULATIONS.

PANELBOARD PNL-7A (REVISED)

Location: BLDG 07, RM B1 — **Volts:** 208/120V Wye — **A.I.C Rating:** -
Supply From: 07-EB-BLDG-7 — **Phases:** 3 — **Bus Rating:** 225A
Mounting: Surface — **Wires** 4 — **Main Circuit Breaker:** MLO
Enclosure: Type 1

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	CONDENSOR OUTSIDE	50 A	2	0	0					2	15 A	INSIDE UNIT	2
3	"	"	"			0	0			"	"	"	4
5	OUTSIDE GFCI	20 A	1					0	0	1	20 A	CONDENSATE PUMP	6
7	FIRE ALARM & RADIO BOX	20 A	1	0	0					1	20 A	ERV UNIT	8
9	UNKNOWN LOAD	20 A	1			0	0			1	20 A	UNKNOWN LOAD	10
11	CONDENSATE PUMP	20 A	3					0	0	1	20 A	UNKNOWN LOAD	12
13	"	"	"	0	0					**1**	**20 A**	ROOM 103 & 104 REC. **(NOTE 2)**	**14**
15	"	"	"			0	0			**1**	**20 A**	ROOM 103 A/C REC. **(NOTE 2)**	**16**
17	TEMP TRAILER	50 A	2					0	0	**1**	**20 A**	ROOM 204 REC. **(NOTE 2)**	**18**
19	"	"	"	0	0					**1**	**20 A**	ROOM 203 A/C REC **(NOTE 2)**	**20**
21	SPACE	-	1			0	0			**1**	**20 A**	ROOM 206 A/C REC. **(NOTE 2)**	**22**
23	SPACE	-	1					0	0	**1**	**20 A**	REFRIGERATOR REC. **(NOTE 2)**	**24**
25	SPACE	-	1	0	0					3	20 A	WATER METER	26
27	SPACE	-	1			0	0			3	20 A	SPACE	28
29	SPACE	-	1					0	0	"	"	"	30
			Total Load	0		0		0					
			Total Amps:	0		0		0					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	0	125.00%	0	Total Conn. Power Load:	0 VA
Other	0	100.00%	0	Total Est. Power Demand:	0 VA
Receptacle	0	100.00%	0	Total Conn. Amperage:	0 A
Lighting	0	125.00%	0	Total Est. Amperage Demand:	0 A
Telecom Rack	0	100.00%	0		

Notes:
1. PANEL SCHEDULE SHOWN FOR INFORMATIONAL PURPOSED ONLY. REFERENCE ASSOCIATED METERING ALD LOAD SCHEDULE FOR LOADING VALUES.
2. RELOCATED CIRCUITS FROM PANELBOARD "PNL-7".

PANELBOARD 07-B3A

Location: BLDG 07, RM B3 — **Line Volts:** 208 — **A.I.C Rating:** 22k
Supply From: PNL-7 — **Neutral Volts:** 120 — **Bus Rating:** 100A
Mounting: Surface — **Phases:** 3 — **Main Circuit Breaker:** 100AF / 100AT / 3P
Enclosure: Type 1 — **Wires** 4

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	20 A	1	1667	720					1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"			1667	134			1	20 A	LIGHTING - TR ROOM	4
5	"	"	"					1667	1690	2	35 A	CONDENSING UNIT "007-CU-01-B3"	6
7	SPARE	20 A	1	0	1690					1			8
9	SPARE	20 A	1			0	180			1	20 A	CONVENIENCE RECEPTACLE	10
11	SPARE	20 A	1					0	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	ACCESS CONTROL PANEL / DOOR POWER	20 A	1					500	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	100					3	30 A	SPD	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load	4177		2080		3957					
			Total Amps:	35		17		33					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	3380	125.00%	4225	Total Conn. Power Load:	10214 VA
Other	800	100.00%	800	Total Est. Power Demand:	11092 VA
Receptacle	900	100.00% (NOTE 1)	900	Total Conn. Amperage:	28 A
Lighting	134	125.00%	167	Total Est. Amperage Demand:	31 A
Telecom Rack	5000	100.00%	5000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

PANELBOARD 07-B3B

Location: BLDG 07, RM B3 — **Line Volts:** 208 — **A.I.C Rating:** 22k
Supply From: PNL-7 — **Neutral Volts:** 120 — **Bus Rating:** 100A
Mounting: Surface — **Phases:** 3 — **Main Circuit Breaker:** 100AF / 100AT / 3P
Enclosure: Type 1 — **Wires** 4

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	20 A	1	1667	720					1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"			1667	0			1	20 A	SPARE	4
5	"	"	"					1667	0	1	20 A	SPARE	6
7	SPARE	20 A	1	0	0					1	20 A	SPARE	8
9	SPARE	20 A	1			0	0			1	20 A	SPARE	10
11	SPARE	20 A	1					0	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	SPARE	20 A	1					0	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	100					3	30 A	SPD	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load	2487		1767		1767					
			Total Amps:	21		15		15					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	0	125.00%	0	Total Conn. Power Load:	6020 VA
Other	300	100.00%	300	Total Est. Power Demand:	6020 VA
Receptacle	720	100.00% (NOTE 1)	720	Total Conn. Amperage:	17 A
Lighting	0	125.00%	0	Total Est. Amperage Demand:	17 A
Telecom Rack	5000	100.00%	5000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

GENERAL NOTES

1. CONTRACTOR SHALL UPDATE ALL PANEL CIRCUIT DIRECTORIES TO INDICATE IN ANY AND ALL CHANGES; ALL REVISED CIRCUIT DIRECTORIES SHALL BE TYPEWRITTEN.
2. FOR ALL "REVISED" PANEL SCHEDULES REFERENCE "METERING AND LOAD INFORMATION SCHEDULE" LOCATED ON SHEET EP701 FOR OVERALL PANEL LOAD. "REVISED" PANEL SCHEDULES ON THIS SHEET ARE SHOWN FOR ADDED BRANCH CIRCUIT SIZING ONLY.
3. ALL DIGITAL POWER METERS (DPM) AND SURGE PROTECTIVE DEVICES (SPD) ARE INTEGRAL TO ELECTRICAL DISTRIBUTION EQUIPMENT, UNLESS OTHERWISE NOTED.
4. EXISTING, REVISED, OR REPLACEMENT SCHEDULES WITH GREY TEXT INDICATE EXISTING PANELBOARD RATINGS, CIRCUITS, AND LOADS. BLACK TEXT INDICATES REVISED CIRCUITS, PROVIDED EQUIPMENT, AND ADDITIONAL LOAD.

BLDG 07 - CONDUIT AND WIRE SCHEDULE - VA VT WHITE RIVER JUNCTION EHRM UPGRADES

CONDUIT TAG	SERVICE	ROUTING FROM	ROUTING TO	CONDUIT QTY	CONDUIT SIZE	CONDUCTORS (QTY) & SIZE	CONDUCTORS GROUND SIZE	VOLTAGE DROP	FAULT CURRENT	NOTES
007-P-01	PANELBOARD "007-B3A"	PANELBOARD "PNL-7"	PANELBOARD "007-B3A"	1	1-1/4"	(3) 3 AWG, (1) 2 AWG	8 AWG	1.09%	4,448	1
007-P-02	PANELBOARD "007-B3B"	PANELBOARD "PNL-7"	PANELBOARD "007-B3B"	1	1-1/4"	(3) 3 AWG, (1) 2 AWG	8 AWG	0.69%	4,812	1
007-P-03	CONDENSING UNIT "007-CU-01-B3"	PANELBOARD "007-B3A"	CONDENSING UNIT "007-CU-01-B3" VIA DISCONNECT	1	3/4"	(2) 8 AWG	10 AWG	1.12%	4,448	
P-TR-1A	TYPICAL TELECOM ROOM DATA RACK POWER FEED (1-RACK), SIDE A	TYPICAL SOURCE A TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE A RECEPTACLE	1	3/4"	(4) 10 AWG	10 AWG	-	-	-
P-TR-1B	TYPICAL TELECOM ROOM DATA RACK POWER FEED (1-RACK), SIDE B	TYPICAL SOURCE B TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE B RECEPTACLE	1	3/4"	(4) 10 AWG	10 AWG	-	-	-

NOTE(S):
1. NEUTRAL IS UPSIZED.

Revisions:	Date:

CONSULTANT/ DISCIPLINE
DISCIPLINE:

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

Drawing Title: BLDG 007 - ELECTRICAL SCHEDULES
Phase: 100% CONSTRUCTION DOCUMENTS
Approved:
FULLY SPRINKLERED
Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Project Number: 405-22-700
Building Number: 007
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Drawing Number: 007EP701
Issue Date: 01/16/2026
Checked: NVP/DCW
Drawn: RTS/KDB

PANELBOARD "09_PB_BASEMENT" METERING AND LOAD INFORMATION SCHEDULE

SYSTEM RATINGS: 800A BUS, MLO, 208/120V, 3PH

LOAD TYPE	DEMAND AMPS (A)	SYSTEM VOLTAGE	DEMAND VA	NOTES
PEAK DEMAND LOAD	61	208	21976	1
25% OF PEAK DEMAND (NEC 220.87)	-	-	5494	
ADDED DEMAND LOAD				
PANELBOARD "009-DP-TR"	-	-	600	
PANELBOARD "009-104AA"	-	-	11138	2
PANELBOARD "009-104AB"	-	-	1020	2
PANELBOARD "T62_PB_P-1"	-	-	-	
BLDG - T62 - TE "B100" - 'A' SIDE RECEPTACLE	-	-	1440	2
BLDG - T62 - TE "B100" - 'B' SIDE RECEPTACLE	-	-	1440	2
REMOVED LOAD				
BUILDING 009 - RACK REDUCTION (-2.5kVA EA. RACK @ 1 RACKS TOTAL)	-	-	-2500	3
		TOTAL DEMAND VA	40608	
		TOTAL AMPERAGE	113	
		% TOTAL LOAD	14%	4

NOTES:
1. PEAK DEMAND IS PROVIDED FROM 30-DAY METERING STUDY. PEAK DEMAND RECORDED FROM 06/17/2025.
2. ADDED LOAD CONSISTS OF NEW GENERAL RECEPTACLES, TR RACKS, HVAC AND/OR LIGHTING DEMAND LOADS; REDUNDANT B-SIDE OVERHEAD RECEPTACLE LOAD IS NOT INCLUDED IN POWER CALCULATIONS AS LOADS DO NOT OPERATE AT FULL LOAD SIMULTANEOUSLY. REFERENCE PANEL SCHEDULES FOR EXACT DEMAND LOAD INFORMATION.
3. PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021), TR RACK LOADS ARE DE-RATED FROM 5000VA TO 2500VA AT SUBSTATION LEVEL.
4. TOTAL PERCENT LOADING IS COMPARED TO EQUIPMENT SYSTEM RATING OF 800A.

PANELBOARD: 09-PB-BASEMENT (REVISED)

Location: BLDG 09, RM BASEMENT **Supply From:** 00_TX_T-14 **Mounting:** Surface **Enclosure:** Type 1
Volts: 208/120V Wye **Phases:** 3 **Wires** 4
A.I.C Rating: **Bus Rating:** 800 A **Main Circuit Breaker:** MLO

CKT	CIRCUIT DESCRIPTION	Trip	Poles	A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	T-61	200 A	3	0	4717					3	100 A	PANELBOARD "009-DP-TR"	2
3	"	"	"			0	5977			"	"	"	4
5	"	"	"					0	6197	"	"	"	6
7	T-62	200 A	3	0	0					-	-	SPACE	8
9	"	"	"			0	0			-	-	SPACE	10
11	"	"	"					0	0	2	200 A	SERVICE DISCONNECT	12
13	PANELBOARD "T62_PB_P-1"	200 A	3	2160	0					"	"	"	14
15	"	"	"			3939	0			2	200 A	SERVICE DISCONNECT	16
17	"	"	"					3119	0	"	"	"	18
			Total Load:	6877		9916		9316					
			Total Amps:	57		83		78					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	4410	125.00%	5512	Total Conn. Power Load:	26110 VA
Other	11216	100.00%	11216	Total Est. Power Demand:	24733 VA
Receptacle	2520	100.00% (NOTE 1)	2520	Total Conn. Amperage:	72 A
Lighting	84	125.00%	105	Total Est. Amperage Demand:	69 A
Telecom Rack	7880	(NOTE 2)	5380		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. TELECOM RACK LOADS ARE DE-RATED FROM 5000VA PER RACK TO 2500VA PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021).
3. REDUNDANT LOADS NOT A/B OVERHEAD RACK RECEPTACLES NOT INCLUDED IN POWER CALCULATIONS AS LOADS DO NOT OPERATE AT FULL LOAD SIMULTANEOUSLY.
4. SCHEDULE SHOWN ONLY FOR BRANCH / FEEDER CIRCUIT SIZING ONLY. FOR OVERALL PANEL LOADING INFORMATION REFERENCE ASSOCIATED LOAD SCHEDULE.

PANELBOARD 009-DP-TR

Location: BLDG 09, RM BASEMENT **Supply From:** 09_PB_BASEMENT **Mounting:** Surface **Enclosure:** Type 1
Line Volts: 208 **Neutral Volts:** 120 **Phases:** 3 **Wires** 4
A.I.C Rating: 22k **Bus Rating:** 225A **Main Circuit Breaker:** 225AF / 100AT / 3P / LSI

CKT	CIRCUIT DESCRIPTION	Trip	Poles	A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SPARE	20 A	1	0	2487					3	100 A	PANELBOARD "009-104AB"	2
3	SPARE	20 A	1			0	1767			"	"	"	4
5	PANELBOARD "009-104AA"	100 A	3					4231	1767	"	"	"	6
7	"	"	"	2031	0					1	20 A	SPARE	8
9	"	"	"			4011	0			1	20 A	SPARE	10
11	SPARE	20 A	1					0	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	100					3	70 A	SPD	20
21	SPARE	20 A	1			0	100			"	"	"	22
23	SPARE	20 A	1					0	100	"	"	"	24
25	SPARE	20 A	1	0	100					3	20 A	DPM	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	4717		5977		6197					
			Total Amps:	39		50		52					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	3380	125.00%	4225	Total Conn. Power Load:	16892 VA
Other	6808	100.00%	6808	Total Est. Power Demand:	16258 VA
Receptacle	1620	100.00% (NOTE 1)	1620	Total Conn. Amperage:	47 A
Lighting	84	125.00%	105	Total Est. Amperage Demand:	45 A
Telecom Rack	5000	(NOTE 3)	3500		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. DIGITAL POWER METER (DPM) AND SURGE PROTECTION DEVICE (SPD) TO BE INTEGRAL TO PANEL (FACTORY INSTALLED).
3. TELECOM RACK LOADS ARE DE-RATED FROM 5000VA PER RACK TO 3500VA PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021).
4. REDUNDANT LOADS NOT A/B OVERHEAD RACK RECEPTACLES NOT INCLUDED IN POWER CALCULATIONS AS LOADS DO NOT OPERATE AT FULL LOAD SIMULTANEOUSLY.

GENERAL NOTES

1. CONTRACTOR SHALL UPDATE ALL PANEL CIRCUIT DIRECTORIES TO INDICATE IN ANY AND ALL CHANGES; ALL REVISED CIRCUIT DIRECTORIES SHALL BE TYPEWRITTEN.
2. FOR ALL "REVISED" PANEL SCHEDULES REFERENCE ASSOCIATED EQUIPMENT LOAD SCHEDULE FOR OVERALL PANEL LOAD. "REVISED" PANEL SCHEDULES ON THIS SHEET ARE SHOWN FOR ADDED BRANCH CIRCUIT SIZING ONLY.
3. ALL DIGITAL POWER METERS (DPM) AND SURGE PROTECTIVE DEVICES (SPD) ARE INTEGRAL TO ELECTRICAL DISTRIBUTION EQUIPMENT, UNLESS OTHERWISE NOTED.
4. SCHEDULES WITH GREY TEXT INDICATE EXISTING PANELBOARD RATINGS, CIRCUITS, AND LOADS. BLACK TEXT INDICATES REVISED CIRCUITS, PROVIDED EQUIPMENT, AND ADDITIONAL LOAD.

PANELBOARD 009-104AA

Location: BLDG 009, RM 104A **Supply From:** 009-DP-TR **Mounting:** Surface **Enclosure:** Type 1
Line Volts: 208 **Neutral Volts:** 120 **Phases:** 3 **Wires** 4
A.I.C Rating: 22k **Bus Rating:** 100A **Main Circuit Breaker:** 100AF / 100AT / 3P

CKT	CIRCUIT DESCRIPTION	Trip	Poles	A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	20 A	3	1667	720					1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"			1667	84			1	20 A	LIGHTING - TR ROOM	4
5	"	"	"					1667	1690	2	35 A	CONDENSING UNIT "009-CU-01-104A"	6
7	SPARE	20 A	1	0	1690					"	"	"	8
9	SPARE	20 A	1			0	180			1	20 A	CONVENIENCE RECEPTACLE	10
11	SPARE	20 A	1					0	54	2	15 A	VRF UNIT "09-VRF-01-104A"	12
13	SPARE	20 A	1	0	54					"	"	"	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	ACCESS CONTROL PANEL / DOOR POWER	20 A	1					500	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	100					3	30 A	SPD	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	4231		2031		4011					
			Total Amps:	35		17		33					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	3380	125.00%	4225	Total Conn. Power Load:	10272 VA
Other	908	100.00%	908.16	Total Est. Power Demand:	11138 VA
Receptacle	900	100.00% (NOTE 1)	900	Total Conn. Amperage:	29 A
Lighting	84	125.00%	105	Total Est. Amperage Demand:	31 A
Telecom Rack	5000	100.00%	5000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

PANELBOARD 009-104AB

Location: BLDG 009, RM 104A **Supply From:** 009-DP-TR **Mounting:** Surface **Enclosure:** Type 1
Line Volts: 208 **Neutral Volts:** 120 **Phases:** 3 **Wires** 4
A.I.C Rating: 22k **Bus Rating:** 100A **Main Circuit Breaker:** 100AF / 100AT / 3P

CKT	CIRCUIT DESCRIPTION	Trip	Poles	A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	20 A	3	1667	720					1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"			1667	0			1	20 A	SPARE	4
5	"	"	"					1667	0	1	20 A	SPARE	6
7	SPARE	20 A	1	0	0					1	20 A	SPARE	8
9	SPARE	20 A	1			0	0			1	20 A	SPARE	10
11	SPARE	20 A	1					0	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	SPARE	20 A	1					0	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	100					3	30 A	SPD	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	2487		1767		1767					
			Total Amps:	21		15		15					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	0	125.00%	0	Total Conn. Power Load:	6020 VA
Other	300	100.00%	300	Total Est. Power Demand:	6020 VA
Receptacle	720	100.00% (NOTE 1)	720	Total Conn. Amperage:	17 A
Lighting	0	125.00%	0	Total Est. Amperage Demand:	17 A
Telecom Rack	5000	100.00%	5000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) TO BE INTEGRAL TO PANEL (FACTORY INSTALLED).

BLDG 09 - CONDUIT AND WIRE SCHEDULE - VA VT WHITE RIVER JUNCTION EHRM UPGRADES

CONDUIT TAG	SERVICE	ROUTING		CONDUIT		CONDUCTORS		VOLTAGE DROP	FAULT CURRENT	NOTES
		FROM	TO	QTY	SIZE	(QTY) & SIZE	GROUND SIZE			
009-P-01	PANELBOARD "009-DP-TR"	PANELBOARD "09-PB-BASEMENT"	PANELBOARD "009-DP-TR"	1	1-1/2"	(3) 3 AWG, (1) 1 AWG	8 AWG	0.31%	10,342	1
009-P-02	PANELBOARD "009-104AA"	PANELBOARD "009-DP-TR"	PANELBOARD "009-104AA"	1	1-1/4"	(3) 3 AWG, (1) 2 AWG	8 AWG	0.60%	5,981	1
009-P-03	PANELBOARD "009-104AB"	PANELBOARD "009-DP-TR"	PANELBOARD "009-104AB"	1	1-1/4"	(3) 3 AWG, (1) 2 AWG	8 AWG	0.32%	5,422	1
009-P-04	CONDENSING UNIT "009-CU-01-104A"	PANELBOARD "009-104AA"	CONDENSING UNIT "009-CU-01-104A" VIA DISCONNECT	1	3/4"	(2) 8 AWG	10 AWG	0.65%	5,981	-
P-TR-1A	TYPICAL TELECOM ROOM DATA RACK POWER FEED (1-RACK), SIDE A	TYPICAL SOURCE A TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE A RECEPTACLE	1	3/4"	(4) 10 AWG	10 AWG	-	-	-
P-TR-1B	TYPICAL TELECOM ROOM DATA RACK POWER FEED (1-RACK), SIDE B	TYPICAL SOURCE B TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE B RECEPTACLE	1	3/4"	(4) 10 AWG	10 AWG	-	-	-

NOTE(S):
1. NEUTRAL IS UPSIZED.

Revisions: Date:

CONSULTANT/ DISCIPLINE
DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD
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SPEES DESIGN BUILD
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STAMP
LOUIS R. LITZKO, STATE OF WASHINGTON, 55681, REGISTERED PROFESSIONAL ENGINEER, 1-16-26

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

Drawing Title: BLDG 009 - ELECTRICAL SCHEDULES
Approved:

Phase: 100% CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Issue Date: 01/16/2026 | Checked: NVP/DCW | Drawn: RTS/KDB

Project Number: 405-22-700
Building Number: 009
Drawing Number: 009EP701

PANELBOARD "28_PB_MDP" METERING AND LOAD INFORMATION SCHEDULE				
SYSTEM RATINGS: 1200A BUS, 1000A MCB 208/120V, 3PH				
LOAD TYPE	**DEMAND AMPS (A)**	**SYSTEM VOLTAGE**	**DEMAND VA**	**NOTES**
PEAK DEMAND LOAD	170	208	61101	1
25% OF PEAK DEMAND (NEC 220.87)	-	-	15275	
ADDED DEMAND LOAD				
PANELBOARD "028-DP-TRB"	-	-	600	
PANELBOARD "028-G31AB"	-	-	6020	2
PANELBOARD "028-115AB"	-	-	6020	2
PANELBOARD "028-219B"	-	-	11020	2
REMOVED LOAD				
BUILDING 028 - RACK REDUCTION (-2.5kVA EA. RACK @ 4 RACKS TOTAL)	-	-	-10000	3
		TOTAL DEMAND VA	90037	
		TOTAL AMPERAGE	250	
		% TOTAL LOAD	60%	4

NOTES:
1. PEAK DEMAND IS PROVIDED FROM 30-DAY METERING STUDY. PEAK DEMAND RECORDED FROM 06/05/2025.
2. ADDED LOAD CONSISTS OF NEW GENERAL RECEPTACLES, TR RACKS, HVAC AND/OR LIGHTING DEMAND LOADS; REFERENCE PANEL SCHEDULES FOR EXACT DEMAND LOAD INFORMATION.
3. PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021), TR RACK LOADS ARE DE-RATED FROM 5000VA TO 2500VA AT SUBSTATION LEVEL.
4. TOTAL PERCENT LOADING IS COMPARED TO UPSTREAM FEEDER RATING OF 420A.

PANELBOARD "28_PB_PP2" METERING AND LOAD INFORMATION SCHEDULE				
SYSTEM RATINGS: 400A BUS, 400A MCB, 208/120V, 3PH				
LOAD TYPE	**DEMAND AMPS (A)**	**SYSTEM VOLTAGE**	**DEMAND VA**	**NOTES**
PEAK DEMAND LOAD	18	208	6323	1
25% OF PEAK DEMAND (NEC 220.87)	-	-	1581	
ADDED DEMAND LOAD				
PANELBOARD "028-DP-TRB"	-	-	600	
PANELBOARD "028-G31AB"	-	-	6020	2
PANELBOARD "028-115AB"	-	-	6020	2
PANELBOARD "028-219B"	-	-	11020	2
REMOVED LOAD				
BUILDING 031 - RACK REDUCTION (-2.5kVA EA. RACK @ 4 RACKS TOTAL)	-	-	-10000	3
		TOTAL DEMAND VA	21563	
		TOTAL AMPERAGE	60	
		% TOTAL LOAD	15%	4

NOTES:
1. PEAK DEMAND IS PROVIDED FROM 30-DAY METERING STUDY. PEAK DEMAND RECORDED FROM 05/21/2025.
2. ADDED LOAD CONSISTS OF NEW GENERAL RECEPTACLES, TR RACKS, HVAC AND/OR LIGHTING DEMAND LOADS; REFERENCE PANEL SCHEDULES FOR EXACT DEMAND LOAD INFORMATION.
3. PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021), TR RACK LOADS ARE DE-RATED FROM 5000VA TO 2500VA AT SUBSTATION LEVEL.
4. TOTAL PERCENT LOADING IS COMPARED TO EQUIPMENT MAIN OVER CURRENT PROTECTIVE DEVICE RATING OF 400A.

GENERAL NOTES

1. CONTRACTOR SHALL UPDATE ALL PANEL CIRCUIT DIRECTORIES TO INDICATE IN ANY AND ALL CHANGES; ALL REVISED CIRCUIT DIRECTORIES SHALL BE TYPEWRITTEN.
2. FOR ALL "REVISED" PANEL SCHEDULES REFERENCE ASSOCIATED EQUIPMENT LOAD SCHEDULE FOR OVERALL PANEL LOAD. "REVISED" PANEL SCHEDULES ON THIS SHEET ARE SHOWN FOR ADDED BRANCH CIRCUIT SIZING ONLY.
3. ALL DIGITAL POWER METERS (DPM) AND SURGE PROTECTIVE DEVICES (SPD) ARE INTEGRAL TO ELECTRICAL DISTRIBUTION EQUIPMENT, UNLESS OTHERWISE NOTED.
4. SCHEDULES WITH GREY TEXT INDICATE EXISTING PANELBOARD RATINGS, CIRCUITS, AND LOADS. BLACK TEXT INDICATES REVISED CIRCUITS, PROVIDED EQUIPMENT, AND ADDITIONAL LOAD.

PANELBOARD 28_PB_PP2 (REVISED)

Location: BLDG 28, RM 4
Supply From: 28_PB_MDP
Mounting: Surface
Enclosure: Type 1
Volts: 208V/120V
Phases: 3
Wires 4
A.I.C Rating: 22K
Bus Rating: 400A
Main Circuit Breaker: 400AF / 400AT / 400AP / 3P

CKT	CIRCUIT DESCRIPTION	# OF POLES	CIRCUIT BREAKER SIZE	VA PER PHASE A	B	C	COMMENTS
1	SITE LITE PANEL (OFF)	3	125 A	0	0	0	
2	PANELBOARD "028-DP-TRB"	3	225 A	9327	7167	7167	
3	SPARE	3	125 A	0	0	0	
4	PANEL ON REAR OF BLDG. 28	3	100 A	0	0	0	
5	PANEL CORR. ROOM 222 (OFF)	3	125 A	0	0	0	
6	TV PANEL	3	125 A	0	0	0	
7	SPARE	3	125 A	0	0	0	
8	PAVILLION PANEL 'GZB #1'	3	100 A	0	0	0	
9	SPACE	3	-	0	0	0	
10	SPACE	3	-	0	0	0	
			Total Load:	9327	7167	7167	
			Total Amps:	34	26	26	

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	0	125.00%	0	Total Conn. Power Load:	23660 VA
Other	1500	100.00%	1500	Total Est. Power Demand:	13660 VA
Receptacle	2160	100.00% (NOTE 1)	2160	Total Conn. Amperage:	28 A
Lighting	0	125.00%	0	Total Est. Amperage Demand:	16 A
Telecom	20000	(NOTE 2)	10000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. TELECOM RACK LOADS ARE DE-RATED FROM 5000VA PER RACK TO 2500VA PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021).
3. SCHEDULE SHOWN ONLY FOR BRANCH / FEEDER CIRCUIT SIZING ONLY. FOR OVERALL PANEL LOADING INFORMATION REFERENCE ASSOCIATED LOAD SCHEDULE.

PANELBOARD 028-DP-TRB

Location: BLDG 028, RM ELEC
Supply From: PANEL "28_PB_PP2"
Mounting: Surface
Enclosure: Type 1
Line Volts: 208
Neutral Volts: 120
Phases: 3
Wires 4
A.I.C Rating: 42K
Bus Rating: 225A
Main Circuit Breaker: 225AF / 150AT / 3P / LSI

CKT	CIRCUIT DESCRIPTION	Trip	Poles	A		B		C		Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	PANELBOARD 028-G31AB	100 A	3	2487	2487					3	100 A	PANELBOARD 028-115AB	2
3	"	"	"			1767	1767			"	"	"	4
5	"	"	"					1767	1767	"	"	"	6
7	PANELBOARD 028-219B	100 A	3	4153	0					1	20 A	SPARE	8
9	"	"	"			3433	0			1	20 A	SPARE	10
11	"	"	"					3433	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	100					3	70 A	SPD	20
21	SPARE	20 A	1			0	100			"	"	"	22
23	SPARE	20 A	1					0	100	"	"	"	24
25	SPARE	20 A	1	0	100					3	20 A	DPM	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	9327		7167		7167					
			Total Amps:	78		60		60					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	0	125.00%	0	Total Conn. Power Load:	23660 VA
Other	1500	100.00%	1500	Total Est. Power Demand:	17660 VA
Receptacle	2160	100.00% (NOTE 1)	2160	Total Conn. Amperage:	66 A
Lighting	0	125.00%	0	Total Est. Amperage Demand:	49 A
Telecom Rack	20000	(NOTE 3)	14000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. DIGITAL POWER METER (DPM) AND SURGE PROTECTION DEVICE (SPD) TO BE INTEGRAL TO PANEL (FACTORY INSTALLED).
3. TELECOM RACK LOADS ARE DE-RATED FROM 5000VA PER RACK TO 3500VA PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021).

PANELBOARD 028-G31AB

Location: BLDG 028, RM G31A
Supply From: PANELBOARD "028-DP-TRB"
Mounting: Surface
Enclosure: Type 1
Line Volts: 208
Neutral Volts: 120
Phases: 3
Wires 4
A.I.C Rating: 22k
Bus Rating: 100A
Main Circuit Breaker: 100AF / 100AT / 3P

CKT	CIRCUIT DESCRIPTION	Trip	Poles	A		B		C		Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	20 A	3	1667	720					1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"			1667	0			1	20 A	SPARE	4
5	"	"	"					1667	0	1	20 A	SPARE	6
7	SPARE	20 A	1	0	0					1	20 A	SPARE	8
9	SPARE	20 A	1			0	0			1	20 A	SPARE	10
11	SPARE	20 A	1					0	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	SPARE	20 A	1					0	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	100					3	30 A	SPD	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	2487		1767		1767					
			Total Amps:	21		15		15					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	0	125.00%	0	Total Conn. Power Load:	6020 VA
Other	300	100.00%	300	Total Est. Power Demand:	6020 VA
Receptacle	720	100.00% (NOTE 1)	720	Total Conn. Amperage:	17 A
Lighting	0	125.00%	0	Total Est. Amperage Demand:	17 A
Telecom Rack	5000	100.00%	5000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

PANELBOARD 028-115AB

Location: BLDG 028, RM 115A
Supply From: PANELBOARD "028-DP-TRB"
Mounting: Surface
Enclosure: Type 1
Line Volts: 208
Neutral Volts: 120
Phases: 3
Wires 4
A.I.C Rating: 22k
Bus Rating: 100A
Main Circuit Breaker: 100AF / 100AT / 3P

CKT	CIRCUIT DESCRIPTION	Trip	Poles	A		B		C		Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	20 A	3	1667	720					1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"			1667	0			1	20 A	SPARE	4
5	"	"	"					1667	0	1	20 A	SPARE	6
7	SPARE	20 A	1	0	0					1	20 A	SPARE	8
9	SPARE	20 A	1			0	0			1	20 A	SPARE	10
11	SPARE	20 A	1					0	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	SPARE	20 A	1					0	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	100					3	30 A	SPD	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	2487		1767		1767					
			Total Amps:	21		15		15					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	0	125.00%	0	Total Conn. Power Load:	6020 VA
Other	300	100.00%	300	Total Est. Power Demand:	6020 VA
Receptacle	720	100.00% (NOTE 1)	720	Total Conn. Amperage:	17 A
Lighting	0	125.00%	0	Total Est. Amperage Demand:	17 A
Telecom Rack	5000	100.00%	5000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

PANELBOARD 028-219A

Location: BLDG 028, RM 219
Supply From: PANELBOARD "028-DP-TRA"
Mounting: Surface
Enclosure: Type 1
Line Volts: 208
Neutral Volts: 120
Phases: 3
Wires 4
A.I.C Rating: 22k
Bus Rating: 225A
Main Circuit Breaker: 225AF / 100AT / 3P

CKT	CIRCUIT DESCRIPTION	Trip	Poles	A		B		C		Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	30 A	3	3333	720					1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"			3333	134			1	20 A	LIGHTING - TR ROOM	4
5	"	"	"					3333	1976	2	35 A	CONDENSING UNIT "028-CU-03-219"	6
7	CONDENSING UNIT "028-CU-01-G31A"	25 A	2	1768	1976					"	"	"	8
9	"	"	"			1768	180			1	20 A	CONVENIENCE RECEPTACLE	10
11	CONDENSING UNIT "028-CU-02-115A"	25 A	2					1768	94	2	15 A	VRF UNIT "028-VRF-03-219"	12
13	"	"	"	1768	94					"	"	"	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	ACCESS CONTROL PANEL / DOOR POWER	20 A	1					500	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	100					3	30 A	SPD	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	9759		5515		7771					
			Total Amps:	81		46		65					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	3952	125.00%	4940	Total Conn. Power Load:	23045 VA
Other	8059	100.00%	8059	Total Est. Power Demand:	24066 VA
Receptacle	900	100.00% (NOTE 1)	900	Total Conn. Amperage:	64 A
Lighting	134	125.00%	167	Total Est. Amperage Demand:	67 A
Telecom Rack	10000	100.00%	10000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

Revisions: | Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

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

Drawing Title: BLDG 028 - ELECTRICAL SCHEDULES

Approved:

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER

Project Number: 405-22-700

Building Number: 028

Location: VA VT WHITE RIVER JUNCTION
163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009

Drawing Number: 028EP701

Issue Date	Checked	Drawn
01/16/2026	NVP/DCW	RTS/KDB

PANELBOARD 028-DP-TRA

Location: BLDG 044, RM G-103
Supply From: PANEL "044-DP-TRA"
Mounting: Surface
Enclosure: Type 1

Line Volts: 208
Neutral Volts: 120
Phases: 3
Wires 4

A.I.C Rating: 42K
Bus Rating: 225A
Main Circuit Breaker: 225AF / 150AT / 3P / LSI

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A		VA PER PHASE B		VA PER PHASE C		Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	PANELBOARD 028-G31AA	100 A	3	2080	2541					3	100 A	PANELBOARD 028-115AA	2
3	"	"	"			1893	1667			"	"	"	4
5	"	"	"					2360	2321	"	"	"	6
7	SERVER RACK RECEPTACLE	30 A	3	3333	720					1	20 A	RECEPTACLES - TR ROOM	8
9	"	"	"			3333	134			1	20 A	LIGHTING - TR ROOM	10
11	"	"	"					3333	1976	2	35 A	CONDENSING UNIT "028-CU-03-219"	12
13	VRF UNIT "028-VRF-03-219"	15 A	2	94	1976					"	"	"	14
19	"	"	"			94	180			1	20 A	CONVENIENCE RECEPTACLE	16
17	CONDENSING UNIT "028-CU-01-G31A"	25 A	2					1768	0	"	"	SPARE	18
19	"	"	"	1768	100					3	70 A	SPD	20
21	CONDENSING UNIT "028-CU-02-115A"	25 A	2			1768	100			"	"	"	22
23	"	"	"					1768	100	"	"	"	24
25	ACCESS CONTROL PANEL / DOOR POWER	20 A	1	500	100					3	20 A	DPM	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	13712		9468		13726					
			Total Amps:	114		79		114					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	3952	125.00%	4940	Total Conn. Power Load:	36506 VA
Other	10255	100.00%	10255	Total Est. Power Demand:	31984 VA
Receptacle	2340	100.00% (NOTE 1)	2340	Total Conn. Amperage:	102 A
Lighting	360	125.00%	450	Total Est. Amperage Demand:	89 A
Telecom Rack	20000	(NOTE 3)	14000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. DIGITAL POWER METER (DPM) AND SURGE PROTECTION DEVICE (SPD) TO BE INTEGRAL TO PANEL (FACTORY INSTALLED).
3. TELECOM RACK LOADS ARE DE-RATED FROM 5000VA PER RACK TO 3500VA PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021).

PANELBOARD 028-G31AA

Location: BLDG 028, RM G31A
Supply From: PANELBOARD "028-DP-TRA"
Mounting: Surface
Enclosure: Type 1

Line Volts: 208
Neutral Volts: 120
Phases: 3
Wires 4

A.I.C Rating: 22k
Bus Rating: 100A
Main Circuit Breaker: 100AF / 100AT / 3P

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A		VA PER PHASE B		VA PER PHASE C		Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	20 A	3	1667	720					1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"			1667	126			1	20 A	LIGHTING - TR ROOM	4
5	"	"	"					1667	0	1	20 A	SPARE	6
7	SPARE	20 A	1	0	0					1	20 A	SPARE	8
9	SPARE	20 A	1			0	0			1	20 A	SPARE	10
11	SPARE	20 A	1					0	94	2	15 A	VRF UNIT "2B-VRF-01-G31A"	12
13	SPARE	20 A	1	0	94					"	"	"	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	ACCESS CONTROL PANEL / DOOR POWER	20 A	1					500	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	100					3	30 A	SPD	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	2580		1893		2360					
			Total Amps:	21		16		20					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	0	125.00%	0	Total Conn. Power Load:	6833 VA
Other	987	100.00%	987.2	Total Est. Power Demand:	6865 VA
Receptacle	720	100.00% (NOTE 1)	720	Total Conn. Amperage:	19 A
Lighting	126	125.00%	158	Total Est. Amperage Demand:	19 A
Telecom Rack	5000	100.00%	5000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

PANELBOARD 028-115AA

Location: BLDG 028, RM 115A
Supply From: PANELBOARD "028-DP-TRA"
Mounting: Surface
Enclosure: Type 1

Line Volts: 208
Neutral Volts: 120
Phases: 3
Wires 4

A.I.C Rating: 22k
Bus Rating: 100A
Main Circuit Breaker: 100AF / 100AT / 3P

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A		VA PER PHASE B		VA PER PHASE C		Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	20 A	3	1667	720					1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"			1667	100			1	20 A	LIGHTING - TR ROOM	4
5	"	"	"					1667	0	1	20 A	SPARE	6
7	SPARE	20 A	1	0	0					1	20 A	SPARE	8
9	SPARE	20 A	1			0	0			1	20 A	SPARE	10
11	SPARE	20 A	1					0	54	2	15 A	VRF UNIT "028-VRF-02-115A"	12
13	SPARE	20 A	1	0	54					"	"	"	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	ACCESS CONTROL PANEL / DOOR POWER	20 A	1					500	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	100					3	30 A	SPD	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	2541		1867		2321					
			Total Amps:	21		16		19					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	0	125.00%	0	Total Conn. Power Load:	6728 VA
Other	908	100.00%	908.16	Total Est. Power Demand:	6753 VA
Receptacle	720	100.00% (NOTE 1)	720	Total Conn. Amperage:	19 A
Lighting	100	125.00%	125	Total Est. Amperage Demand:	19 A
Telecom Rack	5000	100.00%	5000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

BLDG 28 - CONDUIT AND WIRE SCHEDULE - VA VT WHITE RIVER JUNCTION EHRM UPGRADES

CONDUIT TAG	SERVICE	ROUTING FROM	ROUTING TO	CONDUIT QTY	CONDUIT SIZE	CONDUCTORS (QTY) & SIZE	CONDUCTORS GROUND SIZE	VOLTAGE DROP	FAULT CURRENT	NOTES
028-P-01	PANELBOARD "028-DP-TRB"	PANELBOARD "28 PB PP2"	PANELBOARD "028-DP-TRB"	1	2-1/2"	(3) 4/0 AWG, (1) 300 KCMIL	4 AWG	1.49%	3,772	1
028-P-02	PANELBOARD "028-G31AB"	PANELBOARD "028-DP-TRB"	PANELBOARD "028-G31AB"	1	1-1/4"	(3) 3 AWG, (1) 2 AWG	8 AWG	1.52%	1,900	1
028-P-03	PANELBOARD "028-115AB"	PANELBOARD "028-DP-TRB"	PANELBOARD "028-115AB"	1	1-1/4"	(3) 3 AWG, (1) 2 AWG	8 AWG	1.52%	1,773	1
028-P-04	PANELBOARD "028-219B"	PANELBOARD "028-DP-TRB"	PANELBOARD "028-219B"	1	1-1/4"	(3) 3 AWG, (1) 2 AWG	8 AWG	1.53%	1,662	1
028-P-05A	PANELBOARD "028-DP-TRA"	PANELBOARD "HE-G" (BLDG 044)	TRANSFORMER "028-TX-DP-TRA"	1	1-1/4"	(3) 4 AWG	8 AWG	1.01%	3,987	-
028-P-05B	PANELBOARD "028-DP-TRA"	TRANSFORMER "028-TX-DP-TRA"	ENCLOSED CIRCUIT BREAKER "ECB-028-TX-DP-TRA"	1	2-1/2"	(3) 4/0 AWG, (1) 300 KCMIL	8 AWG	0.33%	3,100	1
028-P-05C	PANELBOARD "028-DP-TRA"	ENCLOSED CIRCUIT BREAKER "ECB-028-TX-DP-TRA"	PANELBOARD "028-DP-TRA"	1	2-1/2"	(3) 4/0 AWG, (1) 300 KCMIL	4 AWG	1.12%	2,525	1
028-P-06	PANELBOARD "028-G31AA"	PANELBOARD "028-DP-TRA"	PANELBOARD "028-G31AA"	1	1-1/4"	(3) 3 AWG, (1) 2 AWG	8 AWG	0.96%	1,764	1
028-P-07	PANELBOARD "028-115AA"	PANELBOARD "028-DP-TRA"	PANELBOARD "028-115AA"	1	1-1/4"	(3) 3 AWG, (1) 2 AWG	8 AWG	3.07%	1,685	1
028-P-09	CONDENSING UNIT "028-CU-01-G31A"	PANELBOARD "028-DP-TRA"	CONDENSING UNIT "028-CU-01-G31A" VIA DISCONNECT	1	1-1/4"	(2) 6 AWG	8 AWG	2.02%	2,299	-
028-P-10	CONDENSING UNIT "028-CU-02-115A"	PANELBOARD "028-DP-TRA"	CONDENSING UNIT "028-CU-02-115A" VIA DISCONNECT	1	1-1/4"	(2) 6 AWG	8 AWG	5.62%	2,299	-
028-P-11	CONDENSING UNIT "028-CU-03-219"	PANELBOARD "028-DP-TRA"	CONDENSING UNIT "028-CU-03-219" VIA DISCONNECT	1	1-1/4"	(2) 6 AWG	8 AWG	1.38%	2,299	-
P-TR-1A	TYPICAL TELECOM ROOM DATA RACK POWER FEED (1-RACK), SIDE A	TYPICAL SOURCE A TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE A RECEPTACLE	1	3/4"	(4) 10 AWG	10 AWG	-	-	-
P-TR-2A	TYPICAL TELECOM ROOM DATA RACK POWER FEED (2-RACK), SIDE A	TYPICAL SOURCE A TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE A RECEPTACLE	1	3/4"	(4) 10 AWG	10 AWG	-	-	-
P-TR-1B	TYPICAL TELECOM ROOM DATA RACK POWER FEED (1-RACK), SIDE B	TYPICAL SOURCE B TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE B RECEPTACLE	1	3/4"	(4) 10 AWG	10 AWG	-	-	-
P-TR-2B	TYPICAL TELECOM ROOM DATA RACK POWER FEED (2-RACK), SIDE B	TYPICAL SOURCE B TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE B RECEPTACLE	1	3/4"	(4) 10 AWG	10 AWG	-	-	-

NOTE(S):
1. NEUTRAL IS UPSIZED.

GENERAL NOTES

1. CONTRACTOR SHALL UPDATE ALL PANEL CIRCUIT DIRECTORIES TO INDICATE IN ANY AND ALL CHANGES; ALL REVISED CIRCUIT DIRECTORIES SHALL BE TYPEWRITTEN.
2. FOR ALL "REVISED" PANEL SCHEDULES REFERENCE ASSOCIATED EQUIPMENT LOAD SCHEDULE FOR OVERALL PANEL LOAD. "REVISED" PANEL SCHEDULES ON THIS SHEET ARE SHOWN FOR ADDED BRANCH CIRCUIT SIZING ONLY.
3. ALL DIGITAL POWER METERS (DPM) AND SURGE PROTECTIVE DEVICES (SPD) ARE INTEGRAL TO ELECTRICAL DISTRIBUTION EQUIPMENT, UNLESS OTHERWISE NOTED.
4. SCHEDULES WITH GREY TEXT INDICATE EXISTING PANELBOARD RATINGS, CIRCUITS, AND LOADS. BLACK TEXT INDICATES REVISED CIRCUITS, PROVIDED EQUIPMENT, AND ADDITIONAL LOAD.

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

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STAMP

LOUIS R. LITSKO — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 028 - ELECTRICAL SCHEDULES
Phase: 100% CONSTRUCTION DOCUMENTS
Approved:
FULLY SPRINKLERED
Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Project Number: 405-22-700
Building Number: 028
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Drawing Number: 028EP702
Issue Date: 01/16/2026
Checked: NVP/DCW
Drawn: RTS/KDB

SWITCHGEAR "31_SG_MDP31A" CALCULATED LOAD INFORMATION SCHEDULE		
ELECTRICAL RATINGS: 2000A BUS, 1200A MCB,480/277V, 3PH		
LOAD TYPE	**DEMAND VA**	**NOTES**
ADDED DEMAND LOAD		
PANELBOARD "P3N-B01"		
PANELBOARD "031-DP-TRB"	10600	1
PANELBOARD "031-G12B"	11020	1
PANELBOARD "031-226B"	16020	1
REMOVED LOAD		
BUILDING 001 - RACK REDUCTION (-2.5kVA EA. RACK @ 7 RACKS TOTAL)	-17500	2
EXISTING TELECOM RACKS (-1.5kVA EA. RACK @ 12 RACKS TOTAL)	-18000	3
TOTAL DEMAND VA	2140	
TOTAL AMPERAGE	3	
% TOTAL LOAD	0.2%	4,5

NOTES:
1. ADDED LOAD CONSISTS OF NEW GENERAL RECEPTACLES, TR RACKS, HVAC AND/OR LIGHTING DEMAND LOADS; REFERENCE PANEL SCHEDULES FOR EXACT DEMAND LOAD INFORMATION.
2. PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021), TR RACK LOADS ARE DE-RATED FROM 5000VA TO 2500VA AT SUBSTATION LEVEL.
3. EXISTING DATA RACKS ARE ESTIMATED TO BE 1500VA EACH.
4. TOTAL PERCENT LOADING IS COMPARED TO UPSTREAM MAIN OVER CURRENT PROTECTIVE DEVICE RATING OF 1200A
5. TOTAL LOAD IS LESS THAN 1% OF SWITCHGEAR RATING. NET ADDED LOAD IS NEGLIBLE; METERING NOT REQUIRED.

PANELBOARD "31_PB_P3N-B01" METERING AND LOAD INFORMATION SCHEDULE				
SYSTEM RATINGS: 800A BUS, MLO, 480/277V, 3PH				
LOAD TYPE	**DEMAND AMPS (A)**	**SYSTEM VOLTAGE**	**DEMAND VA**	**NOTES**
PEAK DEMAND LOAD	144	480	119387	1
25% OF PEAK DEMAND (NEC 220.87)	-	-	29847	
ADDED DEMAND LOAD				
PANELBOARD "031-DP-TRB"	-	-	600	
PANELBOARD "031-B-18B"	-	-	10300	2
PANELBOARD "031-G12B"	-	-	11020	2
PANELBOARD "031-226B"	-	-	16020	2
REMOVED LOAD				
BUILDING 031 - RACK REDUCTION (-2.5kVA EA. RACK @ 7 RACKS TOTAL)	-	-	-17500	3
TOTAL DEMAND VA			169673	
TOTAL AMPERAGE			204	
% TOTAL LOAD			28%	4

NOTES:
1. PEAK DEMAND IS PROVIDED FROM 30-DAY METERING STUDY. PEAK DEMAND RECORDED FROM 05/14/2025.
2. ADDED LOAD CONSISTS OF NEW GENERAL RECEPTACLES, TR RACKS, HVAC AND/OR LIGHTING DEMAND LOADS; REFERENCE PANEL SCHEDULES FOR EXACT DEMAND LOAD INFORMATION.
3. PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021), TR RACK LOADS ARE DE-RATED FROM 5000VA TO 2500VA AT SUBSTATION LEVEL.
4. TOTAL PERCENT LOADING IS COMPARED TO EQUIPMENT MAIN OVER CURRENT PROTECTIVE DEVICE RATING OF 800A.

PANELBOARD: 31-PB-P3N-B01 (REVISED)

Location: BLDG 31, RM B-03A
Supply From: 31-SG-MDP31A
Mounting: Surface
Enclosure: Type 1

Volts: 277/480V Wye
Phases: 3
Wires 4

A.I.C Rating: 22k
Bus Rating: 800A
Main Circuit Breaker: MLO

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	ATS-31-1	225 A	3	0	0					3	225 A	ATS-31-5	3
3	"	"	"			0	0			"	"	"	4
5	"	"	"					0	0	"	"	"	6
7	ATS-31-4 (FEEDS IRM SERVER RM.)	150 A	3	13607						3	90 A	**PANELBOARD "031-DP-TRB"**	8
9	"	"	"			12167				"	"	"	10
11	"	"	"					12167		"	"	"	12
13	LTN-321 (OUTSIDE STREET LTS.)	30 A	3	0	0					3	60 A	HAC PMP. #1	14
15	"	"	"			0	0			"	"	"	16
17	"	"	"					0	0	"	"	"	18
19	SPACE	"	3	0	0					3	225 A	ATS-31-3	20
21	"	"	"			0	0			"	"	"	22
23	"	"	"					0	0	"	"	"	24
			Total Load:	13607		12167		12167					
			Total Amps:	113		101		101					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	0	125.00%	0	Total Conn. Power Load:	37940 VA
Other	1500	100.00%	1500	Total Est. Power Demand:	20440 VA
Receptacle	1440	100.00% (NOTE 2)	1440	Total Conn. Amperage:	105 A
Lighting	0	125.00%	0	Total Est. Amperage Demand:	57 A
Telecom Rack	35000	(NOTE 1)	17500		

Notes:
1. TELECOM RACK LOADS ARE DE-RATED FROM 5000VA PER RACK TO 2500VA PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021).
2. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
3. SCHEDULE SHOWN ONLY FOR BRANCH / FEEDER CIRCUIT SIZING ONLY. FOR OVERALL PANEL LOADING INFORMATION REFERENCE ASSOCIATED LOAD SCHEDULE.

PANELBOARD 031-DP-TRB

Location: BLDG 031, RM B-19
Supply From: 31-PB-P3N-B01
Mounting: Surface
Enclosure: Type 1

Line Volts: 208
Neutral Volts: 120
Phases: 3
Wires 4

A.I.C Rating: 22k
Bus Rating: 225A
Main Circuit Breaker: 225AF / 150AT / 3P / LSI

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	20 A	3	1667	1667					3	20 A	FUTURE SERVER RACK RECEPTACLE	2
3	"	"	"			1667	1667			"	"	"	4
5	"	"	"					1667	1667	"	"	"	6
7	PANELBOARD 031-B-G12B	100 A	3	4153	5820					3	100 A	PANELBOARD 031-226B	8
9	"	"	"			3433	5100			"	"	"	10
11	"	"	"					3433	5100	"	"	"	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	100					3	40 A	SPD	20
21	SPARE	20 A	1			0	100			"	"	"	22
23	SPARE	20 A	1					0	100	"	"	"	24
25	SPARE	20 A	1	0	100					3	20 A	DPM	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	13507		12067		12067					
			Total Amps:	113		101		101					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	0	125.00%	0	Total Conn. Power Load:	37640 VA
Other	1200	100.00%	1200	Total Est. Power Demand:	27140 VA
Receptacle	1440	100.00% (NOTE 1)	1440	Total Conn. Amperage:	104 A
Lighting	0	125.00%	0	Total Est. Amperage Demand:	75 A
Telecom Rack	35000	NOTE 3	24500		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. DIGITAL POWER METER (DPM) AND SURGE PROTECTION DEVICE (SPD) TO BE INTEGRAL TO PANEL (FACTORY INSTALLED).
3. TELECOM RACK LOADS ARE DE-RATED FROM 5000VA PER RACK TO 3500VA PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021).

PANELBOARD 031-G12B

Location: BLDG 031, RM G12
Supply From: 31-DP-TRB
Mounting: Surface
Enclosure: Type 1

Line Volts: 208
Neutral Volts: 120
Phases: 3
Wires 4

A.I.C Rating: 22k
Bus Rating: 100A
Main Circuit Breaker: 100AF / 100AT / 3P

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	30 A	3	3333	720					1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"			3333	0			1	20 A	SPARE	4
5	"	"	"					3333	0	1	20 A	SPARE	6
7	SPARE	20 A	1	0	0					1	20 A	SPARE	8
9	SPARE	20 A	1			0	0			1	20 A	SPARE	10
11	SPARE	20 A	1					0	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	SPARE	20 A	1					0	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	100					3	30 A	SPD	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	4153		3433		3433					
			Total Amps:	35		29		29					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	0	125.00%	0	Total Conn. Power Load:	11020 VA
Other	300	100.00%	300	Total Est. Power Demand:	11020 VA
Receptacle	720	100.00% (NOTE 1)	720	Total Conn. Amperage:	31 A
Lighting	0	125.00%	0	Total Est. Amperage Demand:	31 A
Telecom Rack	10000	100.00%	10000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

PANELBOARD 031-226B

Location: BLDG 031, RM 226
Supply From: 31-DP-TRB
Mounting: Surface
Enclosure: Type 1

Line Volts: 208
Neutral Volts: 120
Phases: 3
Wires 4

A.I.C Rating: 22k
Bus Rating: 100A
Main Circuit Breaker: 100AF / 100AT / 3P

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	60 A	3	5000	720					1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"			5000	0			1	20 A	SPARE	4
5	"	"	"					5000	0	1	20 A	SPARE	6
7	SPARE	20 A	1	0	0					1	20 A	SPARE	8
9	SPARE	20 A	1			0	0			1	20 A	SPARE	10
11	SPARE	20 A	1					0	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	SPARE	20 A	1					0	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	100					3	30 A	SPD	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	5820		5100		5100					
			Total Amps:	48		42		42					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	0	125.00%	0	Total Conn. Power Load:	16020 VA
Other	300	100.00%	300	Total Est. Power Demand:	16020 VA
Receptacle	720	100.00% (NOTE 1)	720	Total Conn. Amperage:	44 A
Lighting	0	125.00%	0	Total Est. Amperage Demand:	44 A
Telecom Rack	15000	100.00%	15000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

GENERAL NOTES

1. CONTRACTOR SHALL UPDATE ALL PANEL CIRCUIT DIRECTORIES TO INDICATE IN ANY AND ALL CHANGES; ALL REVISED CIRCUIT DIRECTORIES SHALL BE TYPEWRITTEN.
2. FOR ALL "REVISED" PANEL SCHEDULES REFERENCE ASSOCIATED EQUIPMENT LOAD SCHEDULE FOR OVERALL PANEL LOAD. "REVISED" PANEL SCHEDULES ON THIS SHEET ARE SHOWN FOR ADDED BRANCH CIRCUIT SIZING ONLY.
3. ALL DIGITAL POWER METERS (DPM) AND SURGE PROTECTIVE DEVICES (SPD) ARE INTEGRAL TO ELECTRICAL DISTRIBUTION EQUIPMENT, UNLESS OTHERWISE NOTED.
4. SCHEDULES WITH GREY TEXT INDICATE EXISTING PANELBOARD RATINGS, CIRCUITS, AND LOADS. BLACK TEXT INDICATES REVISED CIRCUITS, PROVIDED EQUIPMENT, AND ADDITIONAL LOAD.

KEY NOTES

Revisions:	Date:
CONSULTANT/ DISCIPLINE	
DISCIPLINE:	
ARCHITECT/ ENGINEER OF RECORD	
A/E: SPEES DESIGN BUILD 23830 PACIFIC HIGHWAY S. SUITE 300 KENT, WA 98032 SDB SPEESDESIGNBUILD	
STAMP	LOUIS R. LITZKE, STATE OF WASHINGTON, 55681, REGISTERED PROFESSIONAL ENGINEER, 1-16-26
Office of Construction and Facilities Management	VA U.S. Department of Veterans Affairs
Drawing Title: BLDG 031 - ELECTRICAL SCHEDULES	
Approved:	
Phase: 100% CONSTRUCTION DOCUMENTS	
FULLY SPRINKLERED	
Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER	
Location: VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009	
Issue Date: 01/16/2026	Checked: NVP/DCW
Drawn: RTS/KDB	
Project Number: 405-22-700	
Building Number: 031	
Drawing Number: 031EP701	

PANELBOARD "31_PB_CR31B" METERING AND LOAD INFORMATION SCHEDULE				
SYSTEM RATINGS: 400A BUS, 400A MCB, 208/120V, 3PH				
LOAD TYPE	DEMAND AMPS (A)	SYSTEM VOLTAGE	DEMAND VA	NOTES
PEAK DEMAND LOAD	92	208	33199	1
25% OF PEAK DEMAND (NEC 220.87)	-	-	8300	
ADDED DEMAND LOAD				
PANELBOARD "031-DP-TRA"	-	-	11316	2
PANELBOARD "031-G12A"	-	-	12122	2
PANELBOARD "031-226A"	-	-	40053	2
REMOVED LOAD				
BUILDING 031 - RACK REDUCTION (-2.5kVA EA. RACK @ 7 RACKS TOTAL)	-	-	-17500	3
		TOTAL DEMAND VA	87490	
		TOTAL AMPERAGE	243	
		% TOTAL LOAD	61%	4

NOTES:
1. PEAK DEMAND IS PROVIDED FROM 30-DAY METERING STUDY. PEAK DEMAND RECORDED FROM 05/24/2025.
2. ADDED LOAD CONSISTS OF NEW GENERAL RECEPTACLES, TR RACKS, HVAC AND/OR LIGHTING DEMAND LOADS; REFERENCE PANEL SCHEDULES FOR EXACT DEMAND LOAD INFORMATION.
3. PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021), TR RACK LOADS ARE DE-RATED FROM 5000VA TO 2500VA AT SUBSTATION LEVEL.
4. TOTAL PERCENT LOADING IS COMPARED TO EQUIPMENT MAIN OVER CURRENT PROTECTIVE DEVICE RATING OF 400A.

PANELBOARD: 31-PB-CR31B (REVISED)

Location: BLDG 31, RM B-03A
Supply From: 31-SG-MSP31A
Mounting: Surface
Enclosure: Type 1

Volts: 277/480V Wye
Phases: 3
Wires 4

A.I.C Rating: 22k
Bus Rating: 400A
Main Circuit Breaker: 400AF / 400AT 400AP / 3P

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	RECTEL RM BASEMENT	20 A	1	0	0					1	60 A	MANUAL TRANS BW	2
3	RECTEL RM BASEMENT	20 A	1			0	0			1	-	-	4
5	RECTEL RM BASEMENT	20 A	1					0	0	1	-	-	6
7	LTS TEL RM BASEMENT	20 A	1	0	0					1	30 A	ELECTRICAL RM B-03A	8
9	REC FOR COMPUTER LAUNDRY RM	20 A	1			0	0			1	30 A	G-03 LITE	10
11	REC AC OFFICE BO3B	20 A	1					0	0	1	30 A	G-03	12
13	REC AC OFFICE BO3B	20 A	1	0	0					1	20 A	EMS PANEL ROOM B-03A	14
15	RADIO CONSOLE BO3B	20 A	1			0	0			1	30 A	COMENSTOR HOTWATER BLDG #67	16
17	REC AC OFFICE BO3B	20 A	1					0	0	1	30 A	SPARE	18
19	SPARE	30 A	1	0	0					-	-	SPACE	20
21	SPARE	30 A	1			0	0			-	-	SPACE	22
23	SPARE	30 A	1					0	0	-	-	SPACE	24
25	SPARE	30 A	1	0	0					1	30 A	SPARE	26
27	SPARE	30 A	1			0	0			2	30 A	SPARE	28
29	SPARE	30 A	1					0	0	3	60 A	SPARE	30
31	CR31-2	100 A	3	0	0					3	60 A	SPARE	32
33	"	"	"			0	0			"	"	"	34
35	"	"	"					0	0	"	"	"	36
37	CR31-G	100 A	3	0	21871					3	225 A	PANELBOARD "031-DP-TRA" (NOTE 1)	38
39	"	"	"			0	18356			"	"	"	40
41	"	"	"					0	21593	"	"	"	42
43	SPARE	100 A	3	0	0					3	225 A	CR31-1	44
45	"	"	"			0	0			"	"	"	46
47	"	"	"					0	0	"	"	"	48
			Total Load:		21871		18356		21593				
			Total Amps:		182		153		180				

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	5512	125.00%	6890	Total Conn. Power Load:	61835 VA
Other	19341	100.00%	19341	Total Est. Power Demand:	45765 VA
Receptacle	1800	100.00% (NOTE 3)	1800	Total Conn. Amperage:	172 A
Lighting	267	125.00%	334	Total Est. Amperage Demand:	127 A
Telecom Rack	35000	(NOTE 2)	17500		

Notes:
1. EXISTING 150A 3P SPARE CIRCUIT BREAKER TO BE SALVAGED AND REPLACED WITH NEW CIRCUIT BREAKER TO FEED DOWNSTREAM PANELBOARD.
2. TELECOM RACK LOADS ARE DE-RATED FROM 5000VA PER RACK TO 2500VA PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021).
3. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
4. SCHEDULE SHOWN ONLY FOR BRANCH / FEEDER CIRCUIT SIZING ONLY. FOR OVERALL PANEL LOADING INFORMATION REFERENCE ASSOCIATED LOAD SCHEDULE.

PANELBOARD 031-DP-TRA

Location: BLDG 031, RM B-19
Supply From: 31-PB-CR31B
Mounting: Surface
Enclosure: Type 1

Line Volts: 208
Neutral Volts: 120
Phases: 3
Wires 4

A.I.C Rating: 22k
Bus Rating: 225A
Main Circuit Breaker: 225AF / 225AT / 3P / LSI

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SVER RACK RECEPTACLE	20 A	3	1667	1667					3	20 A	FUTURE SERVER RECK RECEPTACLE	2
3	"	"	"			1667	1667			"	"	"	4
5	"	"	"					1667	1667	"	"	"	6
7	PANELBOARD 031-G-12A	100 A	3	4253	13930					3	100 A	PANELBOARD 031-226A	8
9	"	"	"			3721	10948			"	"	"	10
11	"	"	"					4087	13764	"	"	"	12
13	VRF UNIT "031-VRF-04-B-18A":	15 A	2	54	54					2	15 A	VRF UNIT "031-VRF-03-B -18A":	14
15	"	"	"			54	54			"	"	"	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	100					3	40 A	SPD	20
21	SPARE	20 A	1			0	100			"	"	"	22
23	ACCESS CONTROL PANEL	20 A	1					500	100	"	"	"	24
25	SPARE	20 A	1	0	100					3	20 A	OPM	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:		21825		18310		21885				
			Total Amps:		182		153		182				

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	5512	125.00%	6890	Total Conn. Power Load:	63020 VA
Other	19441	100.00%	19441	Total Est. Power Demand:	52965 VA
Receptacle	1800	100.00% (NOTE 1)	1800	Total Conn. Amperage:	172 A
Lighting	267	125.00%	334	Total Est. Amperage Demand:	147 A
Telecom Rack	35000	NOTE 3	24500		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. DIGITAL POWER METER (DPM) AND SURGE PROTECTION DEVICE (SPD) TO BE INTEGRAL TO PANEL (FACTORY INSTALLED).
3. TELECOM RACK LOADS ARE DE-RATED FROM 5000VA PER RACK TO 3500VA PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021).

PANELBOARD 031-G12A

Location: BLDG 031, RM G12
Supply From: 31-DP-TRA
Mounting: Surface
Enclosure: Type 1

Line Volts: 208
Neutral Volts: 120
Phases: 3
Wires 4

A.I.C Rating: 22k
Bus Rating: 100A
Main Circuit Breaker: 100AF / 100AT / 3P

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	30 A	3	3333	720					1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"			3333	134			1	20 A	LIGHTING - TR ROOM	4
5	"	"	"					3333	0	1	20 A	SPARE	6
7	SPARE	20 A	1	0	0					1	20 A	SPARE	8
9	SPARE	20 A	1			0	0			1	20 A	SPARE	10
11	SPARE	20 A	1					0	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	54			2	15 A	VRF UNIT "031-VRF-05-G12"	16
17	SPARE	20 A	1					0	54	"	"	"	18
19	SPARE	20 A	1	0	100					1	20 A	SPARE	20
21	SPARE	20 A	1			0	100			1	20 A	SPARE	22
23	ACCESS CONTROL PANEL / DOOR POWER	20 A	1					500	100	1	20 A	SPARE	24
25	SPARE	20 A	1	0	100					3	30 A	SPD	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:		4253		3721		4087				
			Total Amps:		35		31		34				

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	108	125.00%	135	Total Conn. Power Load:	12062 VA
Other	1100	100.00%	1100	Total Est. Power Demand:	12122 VA
Receptacle	720	100.00% (NOTE 1)	720	Total Conns. Amperage:	33.6
Lighting	134	125.00%	167	Total Est. Amperage Demand:	34 A
Telecom Rack	10000	100.00%	10000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

PANELBOARD 031-226A

Location: BLDG 031, RM 226
Supply From: 31-DP-TRA
Mounting: Surface
Enclosure: Type 1

Line Volts: 208
Neutral Volts: 120
Phases: 3
Wires 4

A.I.C Rating: 22k
Bus Rating: 225A
Main Circuit Breaker: 225AF / 150AT / 3P

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	60 A	3	5000	720					1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"			5000	134			1	20 A	LIGHTING - TR ROOM	4
5	"	"	"					5000	2600	2	40 A	CONDENSING UNIT "031-CU-04-226"	6
7	CONDENSING UNIT "031-CU-03-G12"	40 A	2	2600	2600					"	"	"	8
9	"	"	"			2600	300			1	20 A	CONVENIENCE RECEPTACLE	10
11	CONDENSING UNIT "031-CU-01-B-19/19B"	40 A	2					2756	54	2	15 A	VRF UNIT "031-VRF-07-226"	12
13	"	"	"	2756	54					2	15 A	"	14
15	CONDENSING UNIT "031-CU-02-B-18A"	40 A	2			2600	54			2	15 A	VRF UNIT "031-VRF-06-226"	16
17	"	"	"					2600	54	"	"	"	18
19	SPARE	20 A	1	0	100					1	20 A	SPARE	20
21	SPARE	20 A	1			0	100			1	20 A	SPARE	22
23	ACCESS CONTROL PANEL / DOOR POWER	20 A	1					500	100	1	20 A	SPARE	24
25	SPARE	20 A	1	0	100					3	30 A	SPD	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:		13930		10948		13764				
			Total Amps:		116		91		115				

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	5512	125.00%	6890	Total Conn. Power Load:	38642 VA
Other	16916	100.00%	16916.32	Total Est. Power Demand:	40053 VA
Receptacle	1080	100.00% (NOTE 1)	1080	Total Conn. Amperage:	107 A
Lighting	134	125.00%	167	Total Est. Amperage Demand:	111 A
Telecom Rack	15000	100.00%	15000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

GENERAL NOTES

1. CONTRACTOR SHALL UPDATE ALL PANEL CIRCUIT DIRECTORIES TO INDICATE IN ANY AND ALL CHANGES; ALL REVISED CIRCUIT DIRECTORIES SHALL BE TYPEWRITTEN.
2. FOR ALL "REVISED" PANEL SCHEDULES REFERENCE "METERING AND LOAD INFORMATION SCHEDULE" LOCATED ON SHEET EP701 FOR OVERALL PANEL LOAD. "REVISED" PANEL SCHEDULES ON THIS SHEET ARE SHOWN FOR ADDED BRANCH CIRCUIT SIZING ONLY.
3. ALL DIGITAL POWER METERS (DPM) AND SURGE PROTECTIVE DEVICES (SPD) ARE INTEGRAL TO ELECTRICAL DISTRIBUTION EQUIPMENT, UNLESS OTHERWISE NOTED.
4. EXISTING, REVISED, OR REPLACEMENT SCHEDULES WITH GREY TEXT INDICATE EXISTING PANELBOARD RATINGS, CIRCUITS, AND LOADS. BLACK TEXT INDICATES REVISED CIRCUITS, PROVIDED EQUIPMENT, AND ADDITIONAL LOAD.

BLDG 31 - CONDUIT AND WIRE SCHEDULE - VA VT WHITE RIVER JUNCTION EHRM UPGRADES										
CONDUIT TAG	SERVICE	ROUTING FROM	ROUTING TO	CONDUIT QTY	CONDUIT SIZE	CONDUCTORS (QTY) & SIZE	CONDUCTORS GROUND SIZE	VOLTAGE DROP	FAULT CURRENT	NOTES
031-P-01A	PANELBOARD "031-DP-TRB"	PANELBOARD "31-PB-P3N-B01"	TRANSFORMER "031-TX-DP-TRB"	1	1-1/4"	(3) 3 AWG	8 AWG	0.42%	14,735	-
031-P-01B	PANELBOARD "031-DP-TRB"	TRANSFORMER "031-TX-DP-TRB"	ENCLOSED CIRCUIT BREAKER "ECB-031-TX-DP-TRB"	1	2-1/2"	(3) 4/0 AWG, (1) 300 KCMIL	4 AWG	0.05%	4,076	1
031-P-01C	PANELBOARD "031-DP-TRB"	ENCLOSED CIRCUIT BREAKER "ECB-031-TX-DP-TRB"	PANELBOARD "031-DP-TRB"	1	2-1/2"	(3) 4/0 AWG, (1) 300 KCMIL	4 AWG	0.05%	4,076	1
031-P-02	PANELBOARD "031-G12B"	PANELBOARD "031-DP-TRB"	PANELBOARD "031-G12B"	1	1-1/2"	(3) 2 AWG, 1 AWG	6 AWG	1.92%	1,288	1
031-P-04	PANELBOARD "031-226B"	PANELBOARD "031-DP-TRB"	PANELBOARD "031-226B"	1	2-1/2"	(3) 2/0 AWG, (1) 3/0 AWG	3 AWG	1.95%	1,709	1
031-P-05	PANELBOARD "031-DP-TRA"	PANELBOARD "31-PB-CR31B"	PANELBOARD "031-DP-TRA"	1	3"	(3) 300 KCMIL, (1) 400 KCMIL	1/0 AWG	0.52%	4,226	1
031-P-06	PANELBOARD "031-G12A"	PANELBOARD "031-DP-TRA"	PANELBOARD "031-G12A"	1	1-1/2"	(3) 2 AWG, 1 AWG	6 AWG	1.84%	1,824	1
031-P-08	PANELBOARD "031-226A"	PANELBOARD "031-DP-TRA"	PANELBOARD "031-226A"	1	3"	(3) 300 KCMIL, (1) 400 KCMIL	1/0 AWG	2.82%	2,391	1
031-P-09	CONDENSING UNIT "031-CU-04-226"	PANELBOARD "031-226A"	CONDENSING UNIT "031-CU-04-226" VIA DISCONNECT	1	1"	(2) 6 AWG	6 AWG	3.26%	2,391	-
031-P-10	CONDENSING UNIT "031-CU-03-G12"	PANELBOARD "031-226A"	CONDENSING UNIT "031-CU-03-G12" VIA DISCONNECT	1	1"	(2) 6 AWG	6 AWG	3.26%	2,391	-
031-P-11	CONDENSING UNIT "031-CU-01-B-19/19B"	PANELBOARD "031-226A"	CONDENSING UNIT "031-CU-01-B-19/19B" VIA DISCONNECT	1	1"	(2) 6 AWG	6 AWG	3.26%	2,391	-
031-P-12	CONDENSING UNIT "031-CU-02-B-18A"	PANELBOARD "031-226A"	CONDENSING UNIT "031-CU-02-B-18A" VIA DISCONNECT	1	1"	(2) 6 AWG	6 AWG	3.26%	2,391	
P-TR-1A	TYPICAL TELECOM ROOM DATA RACK POWER FEED (1-RACK), SIDE A	TYPICAL SOURCE A TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE A RECEPTACLE	1	3/4"	(4) 10 AWG	10 AWG	-	-	-
P-TR-2A	TYPICAL TELECOM ROOM DATA RACK POWER FEED (2-RACK), SIDE A	TYPICAL SOURCE A TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE A RECEPTACLE	1	3/4"	(4) 10 AWG	10 AWG	-	-	-
P-TR-3A	TYPICAL TELECOM ROOM DATA RACK POWER FEED (3-RACK), SIDE A	TYPICAL SOURCE A TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE A JUNCTION BOX	1	1"	(4) 6 AWG	8 AWG	-	-	-
P-TR-1B	TYPICAL TELECOM ROOM DATA RACK POWER FEED (1-RACK), SIDE B	TYPICAL SOURCE B TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE B RECEPTACLE	1	3/4"	(4) 10 AWG	10 AWG	-	-	-
P-TR-2B	TYPICAL TELECOM ROOM DATA RACK POWER FEED (2-RACK), SIDE B	TYPICAL SOURCE B TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE B RECEPTACLE	1	3/4"	(4) 10 AWG	10 AWG	-	-	-
P-TR-3B	TYPICAL TELECOM ROOM DATA RACK POWER FEED (3-RACK), SIDE B	TYPICAL SOURCE B TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE B JUNCTION BOX	1	1"	(4) 6 AWG	8 AWG	-	-	-

NOTE(S):
1. NEUTRAL IS UPSIZED.

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

LOUIS R. LITZAO — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 031 - ELECTRICAL SCHEDULES
Phase: 100% CONSTRUCTION DOCUMENTS
Approved:
FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Project Number: 405-22-700
Building Number: 031
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Drawing Number: 031EP702
Issue Date: 01/16/2026
Checked: NVP/DCW
Drawn: RTS/KDB

VA FORM 08 - 6231
1 16/01/2026 3:59:23 am
Autodesk Docs://405-22-700 VA VT White River Junction EHRM IU/VAWR_GENERAL SHEETS_EL_SDB.rvt

BLDG 037 - PANELBOARD "37A_PB_MDP-37A" CALCULATED LOAD INFORMATION SCHEDULE				
SYSTEM RATINGS: 800A BUS, MLO, 208/120V, 3PH				
LOAD TYPE	DEMAND AMPS (A)	SYSTEM VOLTAGE	DEMAND VA	NOTES
GENERATOR 02_GN_GEN2-B2 PEAK DEMAND LOAD	212	208	76377	1
25% OF PEAK DEMAND (NEC 220.87)	–	–	19094	
ADDED DEMAND LOAD				
PANELBOARD "037-200AA"	–	-	11853	2
PANELBOARD "037-200AB"	–	-	1020	2
REMOVED LOAD				
BUILDING 037 - RACK REDUCTION (-1.5kVA EA. RACK @ 1 RACKS TOTAL)	–	–	-1500	3
TOTAL DEMAND VA			106844	
TOTAL AMPERAGE			297	
% TOTAL LOAD			37%	4

NOTES:
1. PEAK DEMAND IS OBTAINED FROM ON-SITE INVESTIGATIONS AND EXISTING BUILDING 002 GENERATOR TEST DATA.
2. ADDED LOAD CONSISTS OF NEW GENERAL RECEPTACLES, TR RACKS, HVAC AND/OR LIGHTING DEMAND LOADS; REDUNDANT B-SIDE OVERHEAD RECEPTACLE LOAD IS NOT INCLUDED IN POWER CALCULATIONS AS LOADS DO NOT OPERATE AT FULL LOAD SIMULTANEOUSLY. REFERENCE PANEL SCHEDULES FOR EXACT DEMAND LOAD INFORMATION.
3. PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021), TR RACK LOADS ARE DE-RATED FROM 5000VA TO 3500VA AT DISTRIBUTION LEVEL.
4. TOTAL PERCENT LOADING IS COMPARED TO EQUIPMENT UPSTREAM OVER CURRENT PROTECTIVE DEVICE RATING OF 800A.

PANELBOARD 37A-PB-MDP-37A (REVISED)

Location: BLDG 37, RM -
Supply From: 37A-AT-ATS-37-1
Mounting: Surface
Enclosure: Type 1

Line Volts: 208
Neutral Volts: 120
Phases: 3
Wires 4

A.I.C Rating: 22k
Bus Rating: 800A
Main Circuit Breaker: 800A / 3P

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A		VA PER PHASE B		VA PER PHASE C		Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	**PANELBOARD 037-200AA**	100 A	3	4463	0					1	-	SPACE	2
3	"	"	"			2085	0			1	-	-	4
5	"	"	"					4297	0	1	-	-	6
7	**PANELBOARD 037-200AB**	100 A	3	2487	0					3	-	SPACE	8
9	"	"	"			1767	0			1	-	-	10
11	"	"	"					1767	0	1	-	-	12
13	SPACE	-	3	0	0					1	-	SPACE	14
15	"	-	"			0	0			1	-	SPACE	16
17	"	-	"					0	0	3	600 A	MDP 2 BLDG 2	18
19	SPACE	-	3	0	0					"	"	"	20
21	"	-	"			0	0			"	"	"	22
23	"	-	"					0	0	3	300 A	FEED TO BLDG 37	24
25	SPACE	-	3	0	0					"	"	"	26
27	"	-	"			0	0			-	-	-	28
29	"	-	"					0	0	3	300 A	FEED TO BLDG T-44	30
31	SPACE	-	3	0	0					-	-	-	32
33	"	-	"			0	0			-	-	-	34
35	"	-	"					0	0	-	-	-	36
37	PANEL 37A	-	3	0	0					-	-	-	38
39	"	-	"			0	0			-	-	-	40
41	"	-	"					0	0	-	-	-	42
			Total Load:	6949		3851		6063					
			Total Amps:	58		32		50					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	3952	125.00%	4940	Total Conn. Power Load:	16864 VA
Other	6208	100.00%	6208	Total Est. Power Demand:	16373 VA
Receptacle	1620	100.00% (NOTE 1)	1620	Total Conn. Amperage:	47 A
Lighting	84	125.00%	105	Total Est. Amperage Demand:	45 A
Telecom Rack	5000	(NOTE 3)	3500		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SCHEDULE SHOWN ONLY FOR BRANCH / FEEDER CIRCUIT SIZING ONLY. FOR OVERALL PANEL LOADING INFORMATION REFERENCE ASSOCIATED LOAD SCHEDULE.
3. TELECOM RACK LOADS ARE DE-RATED FROM 5000VA PER RACK TO 3500VA PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021).
4. REDUNDANT LOADS NOT A/B OVERHEAD RACK RECEPTACLES NOT INCLUDED IN POWER CALCULATIONS AS LOADS DO NOT OPERATE AT FULL LOAD SIMULTANEOUSLY.

PANELBOARD 037-200AA

Location: BLDG 037, RM 200A
Supply From: 37A-PB-MDP-37A
Mounting: Surface
Enclosure: Type 1

Line Volts: 208
Neutral Volts: 120
Phases: 3
Wires 4

A.I.C Rating: 22k
Bus Rating: 100A
Main Circuit Breaker: 100AF / 100AT / 3P

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A		VA PER PHASE B		VA PER PHASE C		Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	20 A	3	1667	720					1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"			1667	84			1	20 A	LIGHTING - TR ROOM	4
5	"	"	"					1667	1976	2	35 A	CONDENSING UNIT "037-CU-01-200A"	6
7	SPARE	20 A	1	0	1976					"	"	"	8
9	SPARE	20 A	1			0	180			1	20 A	CONVENIENCE RECPETACLE	10
11	SPARE	20 A	1					0	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	54			2	15 A	VRF UNIT "037-VRF-01-200A"	16
17	SPARE	20 A	1					0	54	"	"	"	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	ACCESS CONTROL PANEL / DOOR POWER	20 A	1					500	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	100					3	30 A	SPD	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	4463		2085		4297					
			Total Amps:	37		17		36					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	3952	125.00%	4940	Total Conn. Power Load:	10844 VA
Other	908	100.00%	908	Total Est. Power Demand:	11853 VA
Receptacle	900	100.00%	900	Total Conn. Amperage:	30 A
Lighting	84	125.00%	105	Total Est. Amperage Demand:	33 A
Telecom Rack	5000	100.00%	5000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

PANELBOARD 037-200AB

Location: BLDG 037, RM 200A
Supply From: 37A-PB-MDP-37A
Mounting: Surface
Enclosure: Type 1

Line Volts: 208
Neutral Volts: 120
Phases: 3
Wires 4

A.I.C Rating: 22k
Bus Rating: 100A
Main Circuit Breaker: 100AF / 100AT / 3P

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A		VA PER PHASE B		VA PER PHASE C		Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	20 A	3	1667	720					1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"			1667	0			1	20 A	SPARE	4
5	"	"	"					1667	0	1	20 A	SPARE	6
7	SPARE	20 A	1	0	0					1	20 A	SPARE	8
9	SPARE	20 A	1			0	0			1	20 A	SPARE	10
11	SPARE	20 A	1					0	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	SPARE	20 A	1					0	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	100					3	30 A	SPD	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	2487		1767		1767					
			Total Amps:	21		15		15					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	0	125.00%	0	Total Conn. Power Load:	6020 VA
Other	500	100.00%	300	Total Est. Power Demand:	6020 VA
Receptacle	720	100.00%	720	Total Conn. Amperage:	17 A
Lighting	0	125.00%	0	Total Est. Amperage Demand:	17 A
Telecom Rack	5000	100.00%	5000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

GENERAL NOTES

1. CONTRACTOR SHALL UPDATE ALL PANEL CIRCUIT DIRECTORIES TO INDICATE IN ANY AND ALL CHANGES; ALL REVISED CIRCUIT DIRECTORIES SHALL BE TYPEWRITTEN.
2. FOR ALL "REVISED" PANEL SCHEDULES REFERENCE ASSOCIATED EQUIPMENT LOAD SCHEDULE FOR OVERALL PANEL LOAD. "REVISED" PANEL SCHEDULES ON THIS SHEET ARE SHOWN FOR ADDED BRANCH CIRCUIT SIZING ONLY.
3. ALL DIGITAL POWER METERS (DPM) AND SURGE PROTECTIVE DEVICES (SPD) ARE INTEGRAL TO ELECTRICAL DISTRIBUTION EQUIPMENT, UNLESS OTHERWISE NOTED.
4. SCHEDULES WITH GREY TEXT INDICATE EXISTING PANELBOARD RATINGS, CIRCUITS, AND LOADS. BLACK TEXT INDICATES REVISED CIRCUITS, PROVIDED EQUIPMENT, AND ADDITIONAL LOAD.

BLDG 37 - CONDUIT AND WIRE SCHEDULE - VA VT WHITE RIVER JUNCTION EHRM UPGRADES									
CONDUIT TAG	SERVICE	ROUTING		CONDUIT		CONDUCTORS		VOLTAGE DROP	FAULT CURRENT	NOTES
		FROM	TO	QTY	SIZE	(QTY) & SIZE	GROUND SIZE			
037-P-01	PANELBOARD "037-200AA"	PANELBOARD "37A-PB-MDP"	PANELBOARD "037-200AA"	1	1-1/4"	(3) 3 AWG, (1) 2 AWG	8 AWG	0.83%	3,649	1
037-P-02	PANELBOARD "037-200AB"	PANELBOARD "37A-PB-MDP"	PANELBOARD "037-200AB"	1	1-1/4"	(3) 3 AWG, (1) 2 AWG	8 AWG	0.46%	8,281	1
037-P-03	CONDENSING UNIT "037-CU-01-200A"	PANELBOARD "037-200AA"	CONDENSING UNIT "037-CU-01-200A" VIA DISCONNECT	1	1-1/4"	(2) 8 AWG	8 AWG	2.09%	3,649	–
P-TR-1A	TYPICAL TELECOM ROOM DATA RACK POWER FEED (1-RACK), SIDE A	TYPICAL SOURCE A TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE A RECEPTACLE	1	3/4"	(4) 10 AWG	10 AWG	-	-	-
P-TR-1B	TYPICAL TELECOM ROOM DATA RACK POWER FEED (1-RACK), SIDE B	TYPICAL SOURCE B TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE B RECEPTACLE	1	3/4"	(4) 10 AWG	10 AWG	-	-	-

NOTE(S):
1. NEUTRAL IS UPSIZED.

Revisions:	**Date:**

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

LOUIS R. UTZINO — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	BLDG 037 - ELECTRICAL SCHEDULES
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Project Number	405-22-700
Building Number	037
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Drawing Number	037EP701
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB

PANELBOARD "39_PB_EMDP2" METERING AND LOAD INFORMATION SCHEDULE

SYSTEM RATINGS: 400A BUS, 400A MCB, 480/277V, 3PH

LOAD TYPE	DEMAND AMPS (A)	SYSTEM VOLTAGE	DEMAND VA	NOTES
PEAK DEMAND LOAD	221	480	183320	1
25% OF PEAK DEMAND (NEC 220.87)	-	-	45830	
ADDED DEMAND LOAD				
PANELBOARD "039-DP-TRA"	-	-	12450	2
PANELBOARD "039-G05A"	-	-	16915	2
PANELBOARD "039-200AA"	-	-	26271	2
PANELBOARD "039-387A"	-	-	12450	2
REMOVED LOAD				
BUILDING 039 - RACK REDUCTION (-2.5kVA EA. RACK @ 8 RACKS TOTAL)	-	-	-20000	3
BUILDING 039 - EXISTING TELECOM RACKS (-1.5kVA EA. RACK @ 13 RACKS TOTAL)	-	-	-19500	4
TOTAL DEMAND VA			257736	
TOTAL AMPERAGE			310	
% TOTAL LOAD			78%	5

NOTES:
1. PEAK DEMAND IS PROVIDED FROM GENERATOR B-40 GENERATOR LOAD TEST DATA. BASED ON ONE-LINE TOPOLOGY, A CONSERVATIVE DEMAND FACTOR OF 75% OF TOTAL LOAD IS APPLIED TO PANELBOARD "39_PB_EMDP2"
2. ADDED LOAD CONSISTS OF NEW GENERAL RECEPTACLES, TR RACKS, HVAC AND/OR LIGHTING DEMAND LOADS; REFERENCE PANEL SCHEDULES FOR EXACT DEMAND LOAD INFORMATION.
3. PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021), TR RACK LOADS ARE DE-RATED FROM 5000VA TO 2500VA AT SUBSTATION LEVEL.
4. EXISTING DATA RACKS ARE ESTIMATED TO BE 1500VA EACH.
5. TOTAL PERCENT LOADING IS COMPARED TO UPSTREAM MAIN OVER CURRENT PROTECTIVE DEVICE RATING OF 200A.

PANELBOARD "39_PB_CB1" METERING AND LOAD INFORMATION SCHEDULE

SYSTEM RATINGS: 225A BUS, MLO, 480/277V, 3PH

LOAD TYPE	DEMAND AMPS (A)	SYSTEM VOLTAGE	DEMAND VA	NOTES
PEAK DEMAND LOAD	35	480	28957	1
25% OF PEAK DEMAND (NEC 220.87)	-	-	7239	
ADDED DEMAND LOAD				
PANELBOARD "039-DP-TRA"	-	-	12450	2
PANELBOARD "039-G05A"	-	-	16915	2
PANELBOARD "039-200AA"	-	-	26271	2
PANELBOARD "039-387A"	-	-	12450	2
REMOVED LOAD				
BUILDING 039 - RACK REDUCTION (-2.5kVA EA. RACK @ 8 RACKS TOTAL)	-	-	-20000	3
TOTAL DEMAND VA			84282	
TOTAL AMPERAGE			101	
% TOTAL LOAD			51%	4

NOTES:
1. PEAK DEMAND IS PROVIDED FROM 30-DAY METERING STUDY. PEAK DEMAND RECORDED FROM 05/22/2025.
2. ADDED LOAD CONSISTS OF NEW GENERAL RECEPTACLES, TR RACKS, HVAC AND/OR LIGHTING DEMAND LOADS; REFERENCE PANEL SCHEDULES FOR EXACT DEMAND LOAD INFORMATION.
3. PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021), TR RACK LOADS ARE DE-RATED FROM 5000VA TO 2500VA AT SUBSTATION LEVEL.
4. TOTAL PERCENT LOADING IS COMPARED TO UPSTREAM MAIN OVER CURRENT PROTECTIVE DEVICE RATING OF 200A.

PANELBOARD 039_PB_CB1 (REVISED)

Location: BLDG 39, RM 019 — **Supply From:** 39_AT_ATS 39-6 — **Mounting:** Surface — **Enclosure:** Type 1
Line Volts: 480 — **Neutral Volts:** 277 — **Phases:** 3 — **Wires** 4
A.I.C Rating: 22K — **Bus Rating:** 225 A — **Main Circuit Breaker:** MLO

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	CB-A2	175 A	3	0	25639					3	100 A	PANELBOARD "039-DP-TRA"	2
3	"	"	"			0	16968			"	"	"	4
5	"	"	"					0	22460	"	"	"	6
7	PANELS CLS AB, AG, A1 VIA T3	60 A	3	0	0					1	-	SPACE	8
9	"	"	"			0	0			1	-	SPACE	10
11	"	"	"					0	0	1	-	SPACE	12
13	SPACE	-	1	0	0					1	-	SPACE	14
15	SPACE	-	1			0	0			1	-	SPACE	16
17	SPACE	-	1					0	0	1	-	SPACE	18
19	SPACE	-	1	0	0					1	-	SPACE	20
21	SPACE	-	1			0	0			1	-	SPACE	22
23	SPACE	-	1					0	0	1	-	SPACE	24
25	SPACE	-	1	0	0					1	-	SPACE	26
27	SPACE	-	1			0	0			1	-	SPACE	28
29	SPACE	-	1					0	0	1	-	SPACE	30
31	SPACE	-	1	0	0					1	-	SPACE	32
33	SPACE	-	1			0	0			1	-	SPACE	34
35	SPACE	-	1					0	0	1	-	SPACE	36
37	SPACE	-	1	0	0					1	-	SPACE	38
39	SPACE	-	1			0	0			1	-	SPACE	40
41	SPACE	-	1					0	0	1	-	SPACE	42
			Total Load:	25639		16968		22460					
			Total Amps:	93		61		81					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	4410	125.00%	5512	Total Conn. Power Load:	65067 VA
Other	16941	100.00%	16941	Total Est. Power Demand:	54288 VA
Receptacle	3240	100.00% (NOTE 1)	3240	Total Conn. Amperage:	78 A
Lighting	476	125.00%	595	Total Est. Amperage Demand:	65 A
Telecom Rack	40000	NOTE 3	28000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SCHEDULE SHOWN ONLY FOR BRANCH / FEEDER CIRCUIT SIZING ONLY. FOR OVERALL PANEL LOADING INFORMATION REFERENCE ASSOCIATED LOAD SCHEDULE.
3. TELECOM RACK LOADS ARE DE-RATED FROM 5000VA PER RACK TO 2500VA PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021).

PANELBOARD 039-DP-TRA

Location: BLDG 39, RM 132 — **Supply From:** 39_PB_CB1 — **Mounting:** Surface — **Enclosure:** Type 1
Line Volts: 208 — **Neutral Volts:** 120 — **Phases:** 3 — **Wires** 4
A.I.C Rating: 42K — **Bus Rating:** 225A — **Main Circuit Breaker:** 225AF / 225AT / 3P / LSI

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	PANELBOARD 039-G05A	100 A	3	6183	720					1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"			3747	167			1	20 A	LIGHTING - TR ROOM	4
5	"	"	"					5963	0	1	20 A	SPARE	6
7	PANELBOARD 039-200A	100 A	3	4247	10861					3	100 A	PANELBOARD 039-387A	8
9	"	"	"			3567	5860			"	"	"	10
11	"	"	"					4027	8437	"	"	"	12
13	SERVER RACK RECEPTACLE	30 A	3	3333	94					2	15 A	VRF UNIT "039-VRF-02-132"	14
15	"	"	"			3333	94			"	"	"	16
17	"	"	"					3333	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	100					3	70 A	SPD	20
21	SPARE	20 A	1			0	100			"	"	"	22
23	ACCESS CONTROL PANEL / DOOR POWER	20 A	1					500	100	"	"	"	24
25	SPARE	20 A	1	0	100					3	20 A	DPM	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	25639		16968		22460					
			Total Amps:	214		141		187					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	4410	125.00%	5512	Total Conn. Power Load:	65067 VA
Other	16941	100.00%	16941	Total Est. Power Demand:	54288 VA
Receptacle	3240	100.00% (NOTE 1)	3240	Total Conn. Amperage:	181 A
Lighting	476	125.00%	595	Total Est. Amperage Demand:	151 A
Telecom Rack	40000	NOTE 3	28000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. DIGITAL POWER METER (DPM) AND SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).
3. TELECOM RACK LOADS ARE DE-RATED FROM 5000VA PER RACK TO 3500VA PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021).

PANELBOARD 039-G05A

Location: BLDG 039, RM G05 — **Supply From:** 039-DP-TRA — **Mounting:** Surface — **Enclosure:** Type 1
Line Volts: 208 — **Neutral Volts:** 120 — **Phases:** 3 — **Wires** 4
A.I.C Rating: 22k — **Bus Rating:** 100A — **Main Circuit Breaker:** 100AF / 100AT / 3P

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	30 A	3	3333	720					1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"			3333	134			1	20 A	LIGHTING - TR ROOM	4
5	"	"	"					3333	1976	2	30 A	CONDENSING UNIT "039-CU-01-G05"	6
7	SPARE	20 A	1	0	1976					"	"	"	8
9	SPARE	20 A	1			0	180			1	20 A	CONVENIENCE RECEPTACLE	10
11	SPARE	20 A	1					0	54	2	15 A	VRF UNIT "039-VRF-01-G05"	12
13	SPARE	20 A	1	0	54					"	"	"	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	ACCESS CONTROL PANEL / DOOR POWER	20 A	1					500	0	1	20 A	SPARE	24
25	SPACE	20A	1	0	100					3	30 A	SPD	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	6183		3747		5963					
			Total Amps:	51		31		50					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	3952	125.00%	4940	Total Conn. Power Load:	15894 VA
Other	908	100.00%	908.16	Total Est. Power Demand:	16915 VA
Receptacle	900	100.00% (NOTE 1)	900	Total Conn. Amperage:	44 A
Lighting	134	125.00%	167	Total Est. Amperage Demand:	47 A
Telecom Rack	10000	100.00%	10000	"	"

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

PANELBOARD 039-200A

Location: BLDG 039, RM 200 — **Supply From:** 039-DP-TRA — **Mounting:** Surface — **Enclosure:** Type 1
Line Volts: 208 — **Neutral Volts:** 120 — **Phases:** 3 — **Wires** 4
A.I.C Rating: 22k — **Bus Rating:** 100A — **Main Circuit Breaker:** 100AF / 100AT / 3P

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	30 A	3	3333	720					1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"			3333	134			1	20 A	SPARE	4
5	"	"	"					3333	0	1	20 A	SPARE	6
7	SPARE	20 A	1	0	0					1	20 A	SPARE	8
9	SPARE	20 A	1			0	0			1	20 A	SPARE	10
11	SPARE	20 A	1					0	94	2	15 A	VRF UNIT "039-VRF-03-200A"	12
13	SPARE	20 A	1	0	94					"	"	"	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	ACCESS CONTROL PANEL / DOOR POWER	20 A	1					500	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	100					3	30 A	SPD	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	4247		3567		4027					
			Total Amps:	35		30		34					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	187	125.00%	234	Total Conn. Power Load:	11841 VA
Other	800	100.00%	800	Total Est. Power Demand:	11921 VA
Receptacle	720	100.00% (NOTE 1)	720	Total Conns. Amperage	33 A
Lighting	134	125.00%	167	Total Est. Amperage Demand:	33 A
Telecom Rack	10000	100.00%	10000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

PANELBOARD 039-387A

Location: BLDG 039, RM 387 — **Supply From:** 039-DP-TRA — **Mounting:** Surface — **Enclosure:** Type 1
Line Volts: 208 — **Neutral Volts:** 120 — **Phases:** 3 — **Wires** 4
A.I.C Rating: 22k — **Bus Rating:** 200A — **Main Circuit Breaker:** 200AF / 100AT / 3P/

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	30 A	3	3333	720					1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"			3333	42			1	20 A	LIGHTING - TR ROOM	4
5	"	"	"					3333	2205	2	35 A	CONDENSING UNIT "039-CU-04-387"	6
7	CONDENSING UNIT "039-CU-03-4"	20 A	1	2205	2205					"	"	"	8
9	"	20 A	1			2205	180			1	20 A	CONVENIENCE RECEPTACLE	10
11	CONDENSING UNIT "039-CU-02-132"	20 A	1					2200	94	2	15 A	VRF UNIT "039-VRF-04-387"	12
13	"	20 A	1	2205	94					"	"	"	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	ACCESS CONTROL PANEL / DOOR POWER	20 A	1					500	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	100					3	30 A	SPD	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	10861		5860		8437					
			Total Amps:	90		49		70					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	4410	125.00%	5512	Total Conn. Power Load:	25358 VA
Other	9806	100.00%	9806.4	Total Est. Power Demand:	26271 VA
Receptacle	900	100.00% (NOTE 1)	900	Total Conn. Amperage:	70 A
Lighting	42	125.00%	53	Total Est. Amperage Demand:	73 A
Telecom Rack	10000	100.00%	10000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

GENERAL NOTES

1. CONTRACTOR SHALL UPDATE ALL PANEL CIRCUIT DIRECTORIES TO INDICATE IN ANY AND ALL CHANGES; ALL REVISED CIRCUIT DIRECTORIES SHALL BE TYPEWRITTEN.
2. FOR ALL "REVISED" PANEL SCHEDULES REFERENCE ASSOCIATED EQUIPMENT LOAD SCHEDULE FOR OVERALL PANEL LOAD. "REVISED" PANEL SCHEDULES ON THIS SHEET ARE SHOWN FOR ADDED BRANCH CIRCUIT SIZING ONLY.
3. ALL DIGITAL POWER METERS (DPM) AND SURGE PROTECTIVE DEVICES (SPD) ARE INTEGRAL TO ELECTRICAL DISTRIBUTION EQUIPMENT, UNLESS OTHERWISE NOTED.
4. SCHEDULES WITH GREY TEXT INDICATE EXISTING PANELBOARD RATINGS, CIRCUITS, AND LOADS. BLACK TEXT INDICATES REVISED CIRCUITS, PROVIDED EQUIPMENT, AND ADDITIONAL LOAD.

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
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STAMP

LOUIS R. LITZKO — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 039 - ELECTRICAL SCHEDULES
Phase: 100% CONSTRUCTION DOCUMENTS
Approved:
FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Project Number: 405-22-700
Building Number: 039
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Drawing Number: 039EP701
Issue Date: 01/16/2026
Checked: NVP/DCW
Drawn: RTS/KDB

SWITCHBOARD "39_SB_MDP2" METERING AND LOAD INFORMATION SCHEDULE				
SYSTEM RATINGS: 1200A BUS, 1200A MCB, 480/277V, 3PH				
LOAD TYPE	DEMAND AMPS (A)	SYSTEM VOLTAGE	DEMAND VA	NOTES
PEAK DEMAND LOAD	421	480	349930	1
25% OF PEAK DEMAND (NEC 220.87)	-	-	87482	
ADDED DEMAND LOAD				
PANELBOARD "039-DP-TRA"	-	-	12029	2
PANELBOARD "039-G05A"	-	-	16915	2
PANELBOARD "039-200AA"	-	-	11921	2
PANELBOARD "039-387A"	-	-	26271	2
PANELBOARD "039-DP-TRB"	-	-	1320	2
PANELBOARD "039-G05B"	-	-	1020	2
PANELBOARD "039-200AB"	-	-	1020	2
PANELBOARD "039-387B"	-	-	1020	2
REMOVED LOAD				
BUILDING 039 - RACK REDUCTION (-2.5kVA EA. RACK @ 8 RACKS TOTAL)	-	-	-20000	3
		TOTAL DEMAND VA	488928	
		TOTAL AMPERAGE	588	
		% TOTAL LOAD	49%	4

NOTES:
1. PEAK DEMAND IS PROVIDED FROM 30-DAY METERING STUDY. PEAK DEMAND RECORDED FROM 06/05/2025.
2. ADDED LOAD CONSISTS OF NEW GENERAL RECEPTACLES, TR RACKS, HVAC AND/OR LIGHTING DEMAND LOADS; REDUNDANT B-SIDE OVERHEAD RECEPTACLE LOAD IS NOT INCLUDED IN POWER CALCULATIONS AS LOADS DO NOT OPERATE AT FULL LOAD SIMULTANEOUSLY. REFERENCE PANEL SCHEDULES FOR EXACT DEMAND LOAD INFORMATION.
3. PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021), TR RACK LOADS ARE DE-RATED FROM 5000VA TO 2500VA AT SUBSTATION LEVEL.
4. TOTAL PERCENT LOADING IS COMPARED TO EQUIPMENT MAIN OVER CURRENT PROTECTIVE DEVICE RATING OF 1200A.

SWITCHBOARD 39_SB_MDP2 (REVISED)

Location: BLDG 39, RM G19 **Volts:** 480/277V **A.I.C Rating:** 22K
Supply From: 00_TX_T-24 **Phases:** 3 **Bus Rating:** 1200A
Mounting: Surface **Wires** 4 **Main Circuit Breaker:** 1200AF / 1200AT / 1200AP / 3P
Enclosure: Type 1

CKT	CIRCUIT DESCRIPTION	# OF POLES	CIRCUIT BREAKER SIZE	VA PER PHASE		LOAD	COMMENTS
1	MAIN	3	1200 A	0	0	0	
2	39_AT_ATS 39-6 CRITICAL BRANCH	3	225 A	25639	16968	22460	
3	39_MO_CHILLER	3	500 A	0	0	0	
4	39_AT_ATS 39-5 EQUIPMENT BRANCH	3	400 A	0	0	0	
5	39_PB_MSB-39	3	400 A	0	0	0	
6	39_PB_L-2	3	200 A	0	0	0	
7	39_AT_ATS 39-7 LIFE SAFETY BRANCH	3	200 A	0	0	0	
8	39_TX_T-4	3	200 A	0	0	0	
9	39_PB_PPMP	3	175 A	0	0	0	
10	PANELBOARD "039-DP-TRB"	3	90 A	16713	13833	13833	
11	SPACE	3	-	0	0	0	
12	SPACE	3	-	0	0	0	
13	SPACE	3	-	0	0	0	
14	SPACE	3	-	0	0	0	
15	SPACE	3	-	0	0	0	
16	SPACE	3	-	0	0	0	
			Total Load:	42352	30801	36294	
			Total Amps:	153	131	131	

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	4410	125.00%	5512	Total Conn. Power Load:	109447 VA
Other	59161	100.00%	59161	Total Est. Power Demand:	90668 VA
Receptacle	5400	100.00%	5400	Total Conn. Amperage:	132 A
Lighting	476	125.00%	595	Total Est. Amperage Demand:	109 A
Telecom	40000	NOTE 2	20000		

Notes:
1. SCHEDULE SHOWN ONLY FOR BRANCH / FEEDER CIRCUIT SIZING ONLY. FOR OVERALL PANEL LOADING INFORMATION REFERENCE ASSOCIATED LOAD SCHEDULE.
2. TELECOM RACK LOADS ARE DE-RATED FROM 5000VA PER RACK TO 2500VA PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021).
3. REDUNDANT LOADS NOT A/B OVERHEAD RACK RECEPTACLES NOT INCLUDED IN POWER CALCULATIONS AS LOADS DO NOT OPERATE AT FULL LOAD SIMULTANEOUSLY.

PANELBOARD 039-DP-TRB

Location: BLDG 039, RM 132 **Line Volts:** 208 **A.I.C Rating:** 42K
Supply From: 39_SB_MDP2 **Neutral Volts:** 120 **Bus Rating:** 225A
Mounting: Surface **Phases:** 3 **Main Circuit Breaker:** 225AF / 150AT / 3P / LSI
Enclosure: Type 1 **Wires** 4

CKT	CIRCUIT DESCRIPTION	Trip	Poles	A		B		C		Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	PANELBOARD 039-G05B	100 A	3	4153	720					1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"			3433	0			1	20 A	SPARE	4
5	"	"	"					3433	0	1	20 A	SPARE	6
7	PANELBOARD 039-200B	100 A	3	4153	4153					3	100 A	PANELBOARD 039-387B	8
9	"	"	"			3433	3433			"	"	"	10
11	"	"	"					3433	3433	"	"	"	12
13	SERVER RACK RECEPTACLE	30 A	3	3333	0					1	20 A	SPARE	14
15	"	"	"			3333	0			1	20 A	SPARE	16
17	"	"	"					3333	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	100					3	70 A	SPD	20
21	SPARE	20 A	1			0	100			"	"	"	22
23	SPARE	20 A	1					0	100	"	"	"	24
25	SPARE	20 A	1	0	100					3	20 A	DPM	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	16713		13833		13833					
			Total Amps:	139		115		115					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	0	125.00%	0	Total Conn. Power Load:	44380 VA
Other	2220	100.00%	2220	Total Est. Power Demand:	32380 VA
Receptacle	2160	100.00% (NOTE 1)	2160	Total Conn. Amperage:	123 A
Lighting	0	125.00%	0	Total Est. Amperage Demand:	90 A
Telecom Rack	40000	NOTE 3	28000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. DIGITAL POWER METER (DPM) AND SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).
3. TELECOM RACK LOADS ARE DE-RATED FROM 5000VA PER RACK TO 3500VA PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021).

GENERAL NOTES

1. CONTRACTOR SHALL UPDATE ALL PANEL CIRCUIT DIRECTORIES TO INDICATE IN ANY AND ALL CHANGES; ALL REVISED CIRCUIT DIRECTORIES SHALL BE TYPEWRITTEN.
2. FOR ALL "REVISED" PANEL SCHEDULES REFERENCE "METERING AND LOAD INFORMATION SCHEDULE" LOCATED ON SHEET EP701 FOR OVERALL PANEL LOAD. "REVISED" PANEL SCHEDULES ON THIS SHEET ARE SHOWN FOR ADDED BRANCH CIRCUIT SIZING ONLY.
3. ALL DIGITAL POWER METERS (DPM) AND SURGE PROTECTIVE DEVICES (SPD) ARE INTEGRAL TO ELECTRICAL DISTRIBUTION EQUIPMENT, UNLESS OTHERWISE NOTED.
4. EXISTING, REVISED, OR REPLACEMENT SCHEDULES WITH GREY TEXT INDICATE EXISTING PANELBOARD RATINGS, CIRCUITS, AND LOADS. BLACK TEXT INDICATES REVISED CIRCUITS, PROVIDED EQUIPMENT, AND ADDITIONAL LOAD.

PANELBOARD 039-G05B

Location: BLDG 039, RM G05 **Line Volts:** 208 **A.I.C Rating:** 22k
Supply From: 039-DP-TRB **Neutral Volts:** 120 **Bus Rating:** 100A
Mounting: Surface **Phases:** 3 **Main Circuit Breaker:** 100AF / 100AT / 3P
Enclosure: Type 1 **Wires** 4

CKT	CIRCUIT DESCRIPTION	Trip	Poles	A		B		C		Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	30 A	3	3333	720					1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"			3333	0			1	20 A	SPARE	4
5	"	"	"					3333	0	1	20 A	SPARE	6
7	SPARE	20 A	1	0	0					1	20 A	SPARE	8
9	SPARE	20 A	1			0	0			1	20 A	SPARE	10
11	SPARE	20 A	1					0	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	SPARE	20 A	1					0	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	100					3	30 A	SPD	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	4153		3433		3433					
			Total Amps:	35		29		29					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	0	125.00%	0	Total Conn. Power Load:	11020 VA
Other	300	100.00%	300	Total Est. Power Demand:	11020 VA
Receptacle	720	100.00% (NOTE 1)	720	Total Conn. Amperage:	31 A
Lighting	0	125.00%	0	Total Est. Amperage Demand:	31 A
Telecom Rack	10000	100.00%	10000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

PANELBOARD 039-200B

Location: BLDG 039, RM 200 **Line Volts:** 208 **A.I.C Rating:** 22k
Supply From: 039-DP-TRB **Neutral Volts:** 120 **Bus Rating:** 100A
Mounting: Surface **Phases:** 3 **Main Circuit Breaker:** 100AF / 100AT / 3P
Enclosure: Type 1 **Wires** 4

CKT	CIRCUIT DESCRIPTION	Trip	Poles	A		B		C		Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	30 A	3	3333	720					1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"			3333	0			1	20 A	SPARE	4
5	"	"	"					3333	0	1	20 A	SPARE	6
7	SPARE	20 A	1	0	0					1	20 A	SPARE	8
9	SPARE	20 A	1			0	0			1	20 A	SPARE	10
11	SPARE	20 A	1					0	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	SPARE	20 A	1					0	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	100					3	30 A	SPD	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	4153		3433		3433					
			Total Amps:	35		29		29					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	0	125.00%	0	Total Conn. Power Load:	11020 VA
Other	300	100.00%	300	Total Est. Power Demand:	11020 VA
Receptacle	720	100.00% (NOTE 1)	720	Total Conn. Amperage:	31 A
Lighting	0	125.00%	0	Total Est. Amperage Demand:	31 A
Telecom Rack	10000	100.00%	10000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

PANELBOARD 039-387B

Location: BLDG 039, RM 387 **Line Volts:** 208 **A.I.C Rating:** 22k
Supply From: 039-DP-TRB **Neutral Volts:** 120 **Bus Rating:** 100A
Mounting: Surface **Phases:** 3 **Main Circuit Breaker:** 100AF / 100AT / 3P
Enclosure: Type 1 **Wires** 4

CKT	CIRCUIT DESCRIPTION	Trip	Poles	A		B		C		Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	30 A	3	3333	720					1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"			3333	0			1	20 A	SPARE	4
5	"	"	"					3333	0	1	20 A	SPARE	6
7	SPARE	20 A	1	0	0					1	20 A	SPARE	8
9	SPARE	20 A	1			0	0			1	20 A	SPARE	10
11	SPARE	20 A	1					0	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	SPARE	20 A	1					0	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	100					3	30 A	SPD	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	4153		3433		3433					
			Total Amps:	35		29		29					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	0	125.00%	0	Total Conn. Power Load:	11020 VA
Other	300	100.00%	300	Total Est. Power Demand:	11020 VA
Receptacle	720	100.00% (NOTE 1)	720	Total Conn. Amperage:	31 A
Lighting	0	125.00%	0	Total Est. Amperage Demand:	31 A
Telecom Rack	10000	100.00%	10000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

BLDG 39 - CONDUIT AND WIRE SCHEDULE - VA VT WHITE RIVER JUNCTION EHRM UPGRADES

CONDUIT TAG	SERVICE	ROUTING FROM	ROUTING TO	CONDUIT QTY	CONDUIT SIZE	CONDUCTORS (QTY) & SIZE	GROUND SIZE	VOLTAGE DROP	FAULT CURRENT	NOTES
039-P-01A	PANELBOARD "039-DP-TRA"	PANELBOARD "39-PB-CB1"	TRANSFORMER "039-TX-TRA"	1	1-1/2"	(3) 2/0 AWG	6 AWG	0.67%	11,898	-
039-P-01B	PANELBOARD "039-DP-TRA"	TRANSFORMER "039-TX-TRA"	ENCLOSED CIRCUIT BREAKER "ECB-039-TX-DP-TRA"	1	3"	(3) 4/0 AWG, (1) 300 KCMIL	4 AWG	0.15%	6,588	1
039-P-02	PANELBOARD "039-DP-TRA"	ENCLOSED CIRCUIT BREAKER "ECB-039-TX-DP-TRA"	PANELBOARD "039-DP-TRA"	1	3"	(3) 4/0 AWG, (1) 300 KCMIL	4 AWG	0.59%	5,706	1
039-P-03	PANELBOARD "039-G05A"	PANELBOARD "039-DP-TRA"	PANELBOARD "039-G05A"	1	1-1/4"	(3) 3 AWG, (1) 2 AWG	8 AWG	1.82%	2,033	1
039-P-05	PANELBOARD "039-200AA"	PANELBOARD "039-DP-TRA"	PANELBOARD "039-200AA"	1	1-1/4"	(3) 3 AWG, (1) 2 AWG	8 AWG	1.80%	1,585	1
039-P-06	PANELBOARD "039-387A"	PANELBOARD "039-DP-TRA"	PANELBOARD "039-387A"	1	2-1/4"	(3) 3/0AWG, (1) 4/0 AWG	2 AWG	2.07%	2,537	1
039-P-07	PANELBOARD "039-DP-TRB"	SWITCHBOARD "39-SB-MDP2"	TRANSFORMER "039-TX-DP-TRB"	1	1-1/4"	(3) 3 AWG	8 AWG	0.22%	14,105	-
039-P-08A	PANELBOARD "039-DP-TRB"	TRANSFORMER "039-TX-DP-TRB"	ENCLOSED CIRCUIT BREAKER "ECB-039-TX-TRB"	1	2"	(3) 1/0 AWG, (1) 3/0 AWG	6 AWG	0.00%	4,033	-
039-P-08B	PANELBOARD "039-DP-TRB"	ENCLOSED CIRCUIT BREAKER "ECB-039-TX-TRB"	PANELBOARD "039-DP-TRB"	1	2"	(3) 1/0 AWG, (1) 3/0 AWG	6 AWG	0.00%	4,033	1
039-P-09	PANELBOARD "039-G05B"	PANELBOARD "039-DP-TRB"	PANELBOARD "039-G05B"	1	1-1/4"	(3) 3 AWG, (1) 2 AWG	8 AWG	0.19%	1,766	1
039-P-11	PANELBOARD "039-200AB"	PANELBOARD "039-DP-TRB"	PANELBOARD "039-200AB"	1	1-1/4"	(3) 3 AWG, (1) 2 AWG	8 AWG	0.96%	1,434	1
039-P-12	PANELBOARD "039-387B"	PANELBOARD "039-DP-TRB"	PANELBOARD "039-387B"	1	1-1/4"	(3) 2 AWG, (1) 1 AWG	6 AWG	1.38%	1,316	1
039-P-13	CONDENSING UNIT "039-CU-01-G05"	PANELBOARD "039-G05A"	CONDENSING UNIT "039-CU-01-G05" VIA DISCONNECT	1	1"	(2) 6 AWG	6 AWG	6.24%	2,033	-
039-P-14	CONDENSING UNIT "039-CU-03-4"	PANELBOARD "037-200AA"	CONDENSING UNIT "039-CU-03-4" VIA DISCONNECT	1	1"	(2) 6 AWG	6 AWG	2.59%	1,585	-
039-P-15	CONDENSING UNIT "039-CU-02-132"	PANELBOARD "037-200AA"	CONDENSING UNIT "039-CU-02-132" VIA DISCONNECT	1	1"	(2) 6 AWG	6 AWG	2.73%	1,585	-
039-P-16	CONDENSING UNIT "039-CU-04-387"	PANELBOARD "037-200AA"	CONDENSING UNIT "039-CU-04-387" VIA DISCONNECT	1	1"	(2) 6 AWG	6 AWG	2.73%	1,585	-
P-TR-1A	TYPICAL TELECOM ROOM DATA RACK POWER FEED (1-RACK), SIDE A	TYPICAL SOURCE A TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE A RECEPTACLE	1	3/4"	(4) 10 AWG	10 AWG	-	-	-
P-TR-2A	TYPICAL TELECOM ROOM DATA RACK POWER FEED (2-RACK), SIDE A	TYPICAL SOURCE A TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE A RECEPTACLE	1	3/4"	(4) 10 AWG	10 AWG	-	-	-
P-TR-1B	TYPICAL TELECOM ROOM DATA RACK POWER FEED (1-RACK), SIDE B	TYPICAL SOURCE B TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE B RECEPTACLE	1	3/4"	(4) 10 AWG	10 AWG	-	-	-
P-TR-2B	TYPICAL TELECOM ROOM DATA RACK POWER FEED (2-RACK), SIDE B	TYPICAL SOURCE B TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE B RECEPTACLE	1	3/4"	(4) 10 AWG	10 AWG	-	-	-

NOTE(S):
1. NEUTRAL IS UPSIZED.

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032
SPEESDESIGNBUILD

STAMP

LOUIS R. LITZKO STATE OF WASHINGTON 55681 1-16-26 REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 039 - ELECTRICAL SCHEDULES

Approved:

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER

Project Number: 405-22-700

Building Number: 039

Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009

Issue Date: 01/16/2026 | Checked: NVP/DCW | Drawn: RTS/KDB

Drawing Number: 039EP702

PANELBOARD "44_SG_MSG" METERING AND LOAD INFORMATION SCHEDULE				
SYSTEM RATINGS: 1200A BUS, 1200A MCB, 480/277V, 3PH				
LOAD TYPE	DEMAND AMPS (A)	SYSTEM VOLTAGE	DEMAND VA	NOTES
PEAK DEMAND LOAD	417	480	346687	1
25% OF PEAK DEMAND (NEC 220.87)	-	-	86672	
ADDED DEMAND LOAD				
PANELBOARD "044-DP-TRB"	-	-	1620	2
PANELBOARD "044-1-118B"	-	-	1020	2
PANELBOARD "044-2-114B"	-	-	1020	2
PANELBOARD "HE-G"	-	-	1385	2
PANELBOARD "044-DP-TRA"	-	-	12095	2
PANELBOARD "044-1-118A"	-	-	11822	2
PANELBOARD "044-2-114A"	-	-	28954	2
PANELBOARD "028-DP-TRA"	-	-	24292	2
PANELBOARD "028-G31AA"	-	-	6912	2
PANELBOARD "028-115AA"	-	-	6780	2
		-		
REMOVED LOAD				
BUILDING 044 - RACK REDUCTION (-2.5kVA EA. RACK @ 6 RACKS TOTAL)	-	-	-15000	3
BUILDING 028 - RACK REDUCTION (-2.5kVA EA. RACK @ 4 RACKS TOTAL)	-	-	-10000	3
TOTAL DEMAND VA			504260	
TOTAL AMPERAGE			607	
% TOTAL LOAD			51%	4

NOTES:
1. PEAK DEMAND IS PROVIDED FROM 30-DAY METERING STUDY. PEAK DEMAND RECORDED FROM 06/05/2025.
2. ADDED LOAD CONSISTS OF NEW GENERAL RECEPTACLES, TR RACKS, HVAC AND/OR LIGHTING DEMAND LOADS; REDUNDANT B-SIDE OVERHEAD RECEPTACLE LOAD IS NOT INCLUDED IN POWER CALCULATIONS AS LOADS DO NOT OPERATE AT FULL LOAD SIMULTANEOUSLY. REFERENCE PANEL SCHEDULES FOR EXACT DEMAND LOAD INFORMATION.
3. PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021), TR RACK LOADS ARE DE-RATED FROM 5000VA TO 2500VA AT SUBSTATION LEVEL.
4. TOTAL PERCENT LOADING IS COMPARED TO EQUIPMENT MAIN OVER CURRENT PROTECTIVE DEVICE RATING OF 1200A.

AUTOMATIC TRANSFER SWITCH "45_AT_ATS-45-1" METERING AND LOAD INFORMATION SCHEDULE				
SYSTEM RATINGS: 600A BUS, 480/277V, 3PH				
LOAD TYPE	DEMAND AMPS (A)	SYSTEM VOLTAGE	DEMAND VA	NOTES
PEAK DEMAND LOAD	21	480	17501	1
25% OF PEAK DEMAND (NEC 220.87)	-	-	4375	
ADDED DEMAND LOAD				
PANELBOARD "HE-G"	-	-	1385	
PANELBOARD "044-DP-TRA"	-	-	12095	2
PANELBOARD "044-1-118A"	-	-	11822	2
PANELBOARD "044-2-114A"	-	-	28954	2
	-	-		
PANELBOARD "028-DP-TRA"	-	-	24292	2
PANELBOARD "028-G31AA"	-	-	6912	2
PANELBOARD "028-115AA"	-	-	6780	2
	-	-		
REMOVED LOAD				
BUILDING 044 - RACK REDUCTION (-2.5kVA EA. RACK @ 6 RACKS TOTAL)	-	-	-15000	3
BUILDING 028 - RACK REDUCTION (-2.5kVA EA. RACK @ 4 RACKS TOTAL)	-	-	-10000	3
		TOTAL DEMAND VA	89116	
		TOTAL AMPERAGE	107	
		% TOTAL LOAD	18%	4

NOTES:
1. PEAK DEMAND IS PROVIDED FROM 30-DAY METERING STUDY. PEAK DEMAND RECORDED FROM 06/10/2025.
2. ADDED LOAD CONSISTS OF NEW GENERAL RECEPTACLES, TR RACKS, HVAC AND/OR LIGHTING DEMAND LOADS; REDUNDANT B-SIDE OVERHEAD RECEPTACLE LOAD IS NOT INCLUDED IN POWER CALCULATIONS AS LOADS DO NOT OPERATE AT FULL LOAD SIMULTANEOUSLY. REFERENCE PANEL SCHEDULES FOR EXACT DEMAND LOAD INFORMATION.
3. PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021), TR RACK LOADS ARE DE-RATED FROM 5000VA TO 2500VA AT SUBSTATION LEVEL.
4. TOTAL PERCENT LOADING IS COMPARED TO EQUIPMENT MAIN OVER CURRENT PROTECTIVE DEVICE RATING OF 600A.

SWITCHGEAR 44_SG_MSG (REVISED)

Location: BLDG 44, RM G-112 **Volts:** 480/277V **A.I.C Rating:** 22K
Supply From: ATS-45 **Phases:** 3 **Bus Rating:** 1200A
Mounting: Surface **Wires:** 4 **Main Circuit Breaker:** 1600AF / 1200AT 1200AAFT 3P
Enclosure: Type 1

CKT	CIRCUIT DESCRIPTION	# OF POLES	CKCUIT BREAKER SIZE	VA PER PHASE A	VA PER PHASE B	VA PER PHASE C	COMMENTS
1	MAIN	3	1200 A				
2	ATS-45-1	3	600 A				
3	SPARE	3	100 A				
4	**PANELBOARD "044-DP-TRB"**	**3**	**75 A**	**20508**	**13447**	**16748**	
5	SPACE	3		0	0	0	
6	SPACE	3		0	0	0	
7	MCC	3	200 A	0	0	0	
8	SPARE (TO OUTSIDE DISCONNECT)	3		0	0	0	
9	SPACE	3		0	0	0	
10	ATS-45-2	3	600 A	0	0	0	
11	SPACE	3		0	0	0	
12	SPACE	3		0	0	0	
13	CAP BANK	3	50 A	0	0	0	
14	SPARE	3		0	0	0	
15	SPACE	3		0	0	0	
16	SPACE	3		0	0	0	
			Total Load:	54681	36090	48076	
			Total Amps:	198	173	172	

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	5200	125.00%	6500	Total Conn. Power Load:	139763 VA
Other	56953	100.00%	56953	Total Est. Power Demand:	99044 VA
Receptacle	6840	100.00%	6840	Total Conn. Amperage:	168 A
Lighting	761	125.00%	951	Total Est. Amperage Demand:	139 A
Telecom	70000	NOTE 2	35000		

Notes:
1. SCHEDULE IS PROVIDED TO SHOW CIRCUITING INFORMATION ONLY. REFERENCE GENERATOR CAPACITY AND LOAD INFORMATION SCHEDULE ON SHEET EP701 FOR LOAD CALCULATIONS.
2. TELECOM RACK LOADS ARE DE-RATED FROM 5000VA PER RACK TO 2500VA PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021).
3. SCHEDULE SHOWN ONLY FOR BRANCH / FEEDER CIRCUIT SIZING ONLY. FOR OVERALL PANEL LOADING INFORMATION REFERENCE ASSOCIATED LOAD SCHEDULE.

PANELBOARD 044-DP-TRB

Location: BLDG 44, RM G-115 **Line Volts:** 208 **A.I.C Rating:** 42K
Supply From: 44_SG_MSG **Neutral Volts:** 120 **Bus Rating:** 225A
Mounting: Surface **Phases:** 3 **Main Circuit Breaker:** 225AF / 225AT / 3P / LSI
Enclosure: Type 1 **Wires:** 4

CKT	CIRCUIT DESCRIPTION	Trip	Poles	A	B	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	20 A	3	1667	4207		3	100 A	PANELBOARD 044-1-118B	2
3	"	"	"		1667	3567	"	"	"	4
5	"	"	"			1667	3987	"	"	6
7	PANELBOARD 044-2-114BB	100 A	3	12647	720		1	20 A	RECEPTACLES - TR ROOM	8
9	"	"	"		8347	0	1	20 A	SPARE	10
11	"	"	"			9227	0	1	20 A	SPARE	12
13	FUTURE SERVER RACK RECEPTACLE	20 A	3	1667	0		1	20 A	SPARE	14
15	"	"	"		1667	0	1	20 A	SPARE	16
17	"	"	"			1667	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	100		3	40 A	SPD	20
21	SPARE	20 A	1		0	100	"	"	"	22
23	SPARE	20 A	1			0	100	"	"	"	24
25	SPARE	20 A	1	0	100		3	20 A	DPM	26
27	SPARE	20 A	1		0	100	"	"	"	28
29	SPARE	20 A	1			0	100	"	"	"	30
			Total Load:	20508	13447	16748				
			Total Amps:	171	112	140				

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	0	125.00%	0	Total Conn. Power Load:	33660 VA
Other	1500	100.00%	1500	Total Est. Power Demand:	24660 VA
Receptacle	2160	100.00% (NOTE 1)	2160	Total Conn. Amperage:	93 A
Lighting	0	125.00%	0	Total Est. Amperage Demand:	68 A
Telecom Rack	30000	NOTE 3	21000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. DIGITAL POWER METER (DPM) AND SURGE PROTECTION DEVICE (SPD) TO BE INTEGRAL TO PANEL (FACTORY INSTALLED).
3. TELECOM RACK LOADS ARE DE-RATED FROM 5000VA PER RACK TO 3500VA PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021).

PANELBOARD 044-1-118B

Location: BLDG 044, RM 1-118 **Line Volts:** 208 **A.I.C Rating:** 22k
Supply From: 044-DP-TRA **Neutral Volts:** 120 **Bus Rating:** 100A
Mounting: Surface **Phases:** 3 **Main Circuit Breaker:** 100AF / 100AT / 3P
Enclosure: Type 1 **Wires:** 4

CKT	CIRCUIT DESCRIPTION	Trip	Poles	A	B	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	30 A	3	3333	720		1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"		3333	0	1	20 A	SPARE	4
5	"	"	"			3333	0	1	20 A	SPARE	6
7	SPARE	20 A	1	0	0		1	20 A	SPARE	8
9	SPARE	20 A	1		0	0	1	20 A	SPARE	10
11	SPARE	20 A	1			0	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0		1	20 A	SPARE	14
15	SPARE	20 A	1		0	0	1	20 A	SPARE	16
17	SPARE	20 A	1			0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0		1	20 A	SPARE	20
21	SPARE	20 A	1		0	0	1	20 A	SPARE	22
23	SPARE	20 A	1			0	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	100		3	30 A	SPD	26
27	SPARE	20 A	1		0	100	"	"	"	28
29	SPARE	20 A	1			0	100	"	"	"	30
			Total Load:	4153	3433	3433				
			Total Amps:	35	29	29				

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	0	125.00%	0	Total Conn. Power Load:	11020 VA
Other	300	100.00%	300	Total Est. Power Demand:	11020 VA
Receptacle	720 (NOTE 1)	100.00%	720	Total Conn. Amperage:	31 A
Lighting	0	125.00%	0	Total Est. Amperage Demand:	31 A
Telecom Rack	10000	100.00%	10000	"	"

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

PANELBOARD 044-2-114BB

Location: BLDG 044, RM 2-114B **Line Volts:** 208 **A.I.C Rating:** 22k
Supply From: 044-DP-TRA **Neutral Volts:** 120 **Bus Rating:** 100A
Mounting: Surface **Phases:** 3 **Main Circuit Breaker:** 100AF / 100AT / 3P
Enclosure: Type 1 **Wires:** 4

CKT	CIRCUIT DESCRIPTION	Trip	Poles	A	B	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	30 A	3	3333	720		1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"		3333	0	1	20 A	SPARE	4
5	"	"	"			3333	0	1	20 A	SPARE	6
7	SPARE	20 A	1	0	0		1	20 A	SPARE	8
9	SPARE	20 A	1		0	0	1	20 A	SPARE	10
11	SPARE	20 A	1			0	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0		1	20 A	SPARE	14
15	SPARE	20 A	1		0	0	1	20 A	SPARE	16
17	SPARE	20 A	1			0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0		1	20 A	SPARE	20
21	SPARE	20 A	1		0	0	1	20 A	SPARE	22
23	SPARE	20 A	1			0	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	100		3	30 A	SPD	26
27	SPARE	20 A	1		0	100	"	"	"	28
29	SPARE	20 A	1			0	100	"	"	"	30
			Total Load:	4153	3433	3433				
			Total Amps:	35	29	29				

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	0	125.00%	0	Total Conn. Power Load:	11020 VA
Other	300	100.00%	300	Total Est. Power Demand:	11020 VA
Receptacle	720 (NOTE 1)	100.00%	720	Total Conn. Amperage:	31 A
Lighting	0	125.00%	0	Total Est. Amperage Demand:	31 A
Telecom Rack	10000	100.00%	10000	"	"

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

GENERAL NOTES

1. CONTRACTOR SHALL UPDATE ALL PANEL CIRCUIT DIRECTORIES TO INDICATE IN ANY AND ALL CHANGES; ALL REVISED CIRCUIT DIRECTORIES SHALL BE TYPEWRITTEN.
2. FOR ALL "REVISED" PANEL SCHEDULES REFERENCE "METERING AND LOAD INFORMATION SCHEDULE" LOCATED ON SHEET EP701 FOR OVERALL PANEL LOAD. "REVISED" PANEL SCHEDULES ON THIS SHEET ARE SHOWN FOR ADDED BRANCH CIRCUIT SIZING ONLY.
3. ALL DIGITAL POWER METERS (DPM) AND SURGE PROTECTIVE DEVICES (SPD) ARE INTEGRAL TO ELECTRICAL DISTRIBUTION EQUIPMENT, UNLESS OTHERWISE NOTED.
4. EXISTING, REVISED, OR REPLACEMENT SCHEDULES WITH GREY TEXT INDICATE EXISTING PANELBOARD RATINGS, CIRCUITS, AND LOADS. BLACK TEXT INDICATES REVISED CIRCUITS, PROVIDED EQUIPMENT, AND ADDITIONAL LOAD.

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032
SPEESDESIGNBUILD

STAMP

LOUIS R. LITZAU — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 044 - ELECTRICAL SCHEDULES
Phase: 100% CONSTRUCTION DOCUMENTS
Approved:
FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Issue Date: 01/16/2026
Checked: NVP/DCW
Drawn: RTS/KDB

Project Number: 405-22-700
Building Number: 044
Drawing Number: 044EP701

PANELBOARD HE-G (REPLACEMENT)

Location: BLDG 44, RM -
Supply From: 4S_SP_ATS-4S-1
Mounting: Surface
Enclosure: Type 1

Line Volts: 480
Neutral Volts: 277
Phases: 3
Wires 4

A.I.C Rating: 42K
Bus Rating: 400A
Main Circuit Breaker: 400AF / 400AT / 3P / LSI

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A		VA PER PHASE B		VA PER PHASE C		Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	PANELBOARD 044-DP-TRA	60 A	3	20562	0					3	150 A	44_PP_TRB	2
3	"	"	"			13581	0			"	"	"	4
5	"	"	"					17302	0	"	"	"	6
7	44_SP_MES_HEZ	250 A	3	0	13712					3	75 A	PANELBOARD 028-DP-TRA	8
9	"	"	"			0	9465			"	"	"	10
11	"	"	"					0	13726	"	"	"	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	100	1	20 A	SPARE	18
19	SPARE	20 A	1	0	100					3	40 A	SPD	20
21	SPARE	20 A	1			0	100			"	"	"	22
23	SPARE	20 A	1					0	100	"	"	"	24
25	SPARE	20 A	1	0	100					3	20 A	GPM	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	34474		23249		31328					
			Total Amps:	124		84		113					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	5200	125.00%	6500	Total Conn. Power Load:	89051 VA
Other	98410	100.00%	38410	Total Est. Power Demand:	70541 VA
Receptacle	4680	100.00% (NOTE 1)	4680	Total Conn. Amperage:	107 A
Lighting	761	125.00%	951	Total Est. Amperage Demand:	85 A
Telecom Rack	40000	NOTE 1	20000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. DIGITAL POWER METER (DPM) AND SURGE PROTECTION DEVICE (SPD) TO BE INTEGRAL TO PANEL (FACTORY INSTALLED).
3. TELECOM RACK LOADS ARE DE-RATED FROM 5000VA PER RACK TO 2500VA PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021).
4. SCHEDULE SHOWN ONLY FOR BRANCH / FEEDER CIRCUIT SIZING ONLY. FOR OVERALL PANEL LOADING INFORMATION REFERENCE ASSOCIATED LOAD SCHEDULE.

PANELBOARD 044-DP-TRA

Location: BLDG 44, RM G-115
Supply From: 044-ATS-4S-1-DP
Mounting: Surface
Enclosure: Type 1

Line Volts: 208
Neutral Volts: 120
Phases: 3
Wires 4

A.I.C Rating: 42K
Bus Rating: 225A
Main Circuit Breaker: 225AF / 110AT / 3P / LSI

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A		VA PER PHASE B		VA PER PHASE C		Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	20 A	3	1667	4207					3	100 A	PANELBOARD 044-1-118A	2
3	"	"	"			1667	3567			"	"	"	4
5	"	"	"					1667	3987	"	"	"	6
7	PANELBOARD 044-2-114BA	150 A	3	12047	720					1	20 A	RECEPTACLES - TR ROOM	8
9	"	"	"			8547	134			1	20 A	LIGHTING - TR ROOM	10
11	"	"	"					8227	84	2	15 A	044-VRF-01-G-115	12
13	FUTURE SERVER RACH RECEPTACLE	20 A	3	1667	54					"	"	"	14
15	"	"	"			1667	0			1	20 A	SPARE	16
17	"	"	"					1667	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	100					3	70 A	SPD	20
21	SPARE	20 A	1			0	100			"	"	"	22
23	ACCESS CONTROL PANEL / DOOR POWER	20 A	1					500	100	"	"	"	24
25	SPARE	20 A	1	0	100					3	20 A	GPM	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	20562		13581		17302					
			Total Amps:	171		113		144					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	5200	125.00%	6500	Total Conn. Power Load:	51444 VA
Other	13504	100.00%	13504	Total Est. Power Demand:	41845 VA
Receptacle	2340	100.00% (NOTE 1)	2340	Total Conn. Amperage:	143 A
Lighting	601	125.00%	501	Total Est. Amperage Demand:	122 A
Telecom Rack	30000	NOTE 3	21000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. DIGITAL POWER METER (DPM) AND SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).
3. TELECOM RACK LOADS ARE DE-RATED FROM 5000VA PER RACK TO 3500VA PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021).

PANELBOARD 044-1-118A

Location: BLDG 044, RM 1-118
Supply From: 044-DP-TRA
Mounting: Surface
Enclosure: Type 1

Line Volts: 208
Neutral Volts: 120
Phases: 3
Wires 4

A.I.C Rating: 22k
Bus Rating: 100A
Main Circuit Breaker: 100AF / 100AT / 3P

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A		VA PER PHASE B		VA PER PHASE C		Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	20 A	3	1667	720					1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"			1667	134			1	20 A	LIGHTING - TR ROOM	4
5	"	"	"					1667	0	1	20 A	SPARE	6
7	FUTURE RACK RECEPTACLE	20 A	3	1667	0					1	20 A	SPARE	8
9	"	"	"			1667	0			1	20 A	SPARE	10
11	"	"	"					1667	54	2	15 A	VRF UNIT "044-VRF-03-1-118"	12
13	SPARE	20 A	1	0	54					"	"	"	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	ACCESS CONTROL PANEL / DOOR POWER	20 A	1					500	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	100					3	30 A	SPD	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	4207		3567		3987					
			Total Amps:	35		30		33					

LOAD TYPE	Connected Load (VA)	Demand Factor	(stimated Demand (VA)	Panel Totals	
Largest Motor	108	125.00%	135	Total Conn. Power Load:	11762 VA
Other	800	100.00%	800	Total Est. Power Demand:	11822 VA
Receptacle	720 (NOTE 1)	100.00%	720	Total Conn. Amperage:	33 A
Lighting	134	125.00%	167	Total Est. Amperag Demand:	33 A
Telecom Rack	10000	100.00%	10000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

PANELBOARD 044-2-114BA

Location: BLDG 044, RM 2-114B
Supply From: 044-DP-TRA
Mounting: Surface
Enclosure: Type 1

Line Volts: 208
Neutral Volts: 120
Phases: 3
Wires 4

A.I.C Rating: 22k
Bus Rating: 225A
Main Circuit Breaker: 225AF / 150AT / 3P

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A		VA PER PHASE B		VA PER PHASE C		Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	30 A	3	3333	720					1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"			3333	134			1	20 A	LIGHTING - TR ROOM	4
5	"	"	"					3333	2600	2	35 A	CONDENSING UNIT "044-CU-03-2-114B"	6
7	CONDENSING UNIT "044-CU-01-G-115"	35 A	1	2600	2600					"	"	"	8
9	"	"	"			2600	180			1	20 A	CONVENIENCE RECEPTACLE	10
11	CONDENSING UNIT "044-CU-02-1-118"	35 A	1					2600	94	2	15 A	VRF UNIT "044-05-2-114B"	12
13	"	"	"	2600	94					"	"	"	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	ACCESS CONTROL PANEL / DOOR POWER	20 A	1					500	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	100					3	30 A	SPD	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	12047		6347		9227					
			Total Amps:	100		53		77					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	5200	125.00%	6500	Total Conn. Power Load:	27621 VA
Other	11387	100.00%	11387	Total Est. Power Demand:	28954 VA
Receptacle	900 (NOTE 1)	100.00%	900	Total Conn. Amperage:	77 A
Lighting	134	125.00%	167	Total Est. Amperage Demand:	80 A
Telecom Rack	10000	100.00%	10000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

GENERAL NOTES

1. CONTRACTOR SHALL UPDATE ALL PANEL CIRCUIT DIRECTORIES TO INDICATE IN ANY AND ALL CHANGES; ALL REVISED CIRCUIT DIRECTORIES SHALL BE TYPEWRITTEN.
2. FOR ALL "REVISED" PANEL SCHEDULES REFERENCE ASSOCIATED EQUIPMENT LOAD SCHEDULE FOR OVERALL PANEL LOAD. "REVISED" PANEL SCHEDULES ON THIS SHEET ARE SHOWN FOR ADDED BRANCH CIRCUIT SIZING ONLY.
3. ALL DIGITAL POWER METERS (DPM) AND SURGE PROTECTIVE DEVICES (SPD) ARE INTEGRAL TO ELECTRICAL DISTRIBUTION EQUIPMENT, UNLESS OTHERWISE NOTED.
4. SCHEDULES WITH GREY TEXT INDICATE EXISTING PANELBOARD RATINGS, CIRCUITS, AND LOADS. BLACK TEXT INDICATES REVISED CIRCUITS, PROVIDED EQUIPMENT, AND ADDITIONAL LOAD.

BLDG 44 - CONDUIT AND WIRE SCHEDULE - VA VT WHITE RIVER JUNCTION EHRM UPGRADES

CONDUIT TAG	SERVICE	ROUTING FROM	ROUTING TO	CONDUIT QTY	CONDUIT SIZE	CONDUCTORS (QTY) & SIZE	CONDUCTORS GROUND SIZE	VOLTAGE DROP	FAULT CURRENT	NOTES
044-P-01	PANELBOARD "044-DP-TRA"	PANELBOARD "HE-G"	TRANSFORMER "044-TX-DP-TRA"	1	1-1/2"	(3) 6 AWG	6 AWG	0.94%	8,159	-
044-P-02	PANELBOARD "044-DP-TRA"	TRANSFORMER "044-TX-DP-TRA"	ENCLOSED CIRCUIT BREAKER "ECB-044-TX-DP-TRA"	1	2-1/2"	(3) 2/0 AWG, (1) 4/0 AWG	6 AWG	1.01%	7,741	1
044-P-03	PANELBOARD "044-DP-TRA"	ENCLOSED CIRCUIT BREAKER "ECB-044-TX-DP-TRA"	PANELBOARD "044-DP-TRA"	1	2-1/2"	(3) 4/0 AWG, (1) 300 KCMIL	4 AWG	0.15%	4,395	1
044-P-05	PANELBOARD "044-1-118A"	PANELBOARD "044-DP-TRA"	PANELBOARD "044-1-118A"	1	1-1/4"	(3) 3 AWG, (1) 2 AWG	6 AWG	1.34%	1,893	1
044-P-06	PANELBOARD "044-2-114A"	PANELBOARD "044-DP-TRA"	PANELBOARD "044-2-114A"	1	1-1/4"	(3) 3 AWG, (1) 2 AWG	6 AWG	1.90%	2,465	1
044-P-07	PANELBOARD "044-DP-TRB"	SWITCHGEAR "44-SG-MSG"	TRANSFORMER "044-TX-DP-TRB"	1	1-1/4"	(3) 6 AWG	10AWG	0.20%	10,736	-
044-P-08A	PANELBOARD "044-DP-TRB"	TRANSFORMER "044-TX-DP-TRB"	ENCLOSED CIRCUIT BREAKER "ECB-044-TX-TRB"	1	2-1/2"	(3) 4/0 AWG, (1) 300 KCMIL	4 AWG	0.05%	3,601	1
044-P-08B	PANELBOARD "044-DP-TRB"	ENCLOSED CIRCUIT BREAKER "ECB-044-TX-TRB"	PANELBOARD "044-DP-TRB"	1	2-1/2"	(3) 2/0 AWG, (1) 4/0 AWG	6 AWG	0.27%	3,601	1
044-P-10	PANELBOARD "044-1-118B"	PANELBOARD "044-DP-TRB"	PANELBOARD "044-1-118B"	1	1-1/4"	(3) 3 AWG, (1) 2 AWG	8 AWG	0.37%	2,460	1
044-P-11	PANELBOARD "044-2-114B"	PANELBOARD "044-DP-TRB"	PANELBOARD "044-2-114B"	1	1-1/4"	(3) 3 AWG, (1) 2 AWG	8 AWG	0.49%	2,274	1
044-P-12	CONDENSING UNIT "044-CU-01-G-115"	PANELBOARD "044-2-114A"	CONDENSING UNIT "044-CU-01-G-115" VIA DISCONNECT	1	3/4"	(2) 6 AWG	6 AWG	2.95%	2,465	-
044-P-13	CONDENSING UNIT "044-CU-02-1-118"	PANELBOARD "044-2-114A"	CONDENSING UNIT "044-CU-02-1-118" VIA DISCONNECT	1	3/4"	(2) 6 AWG	6 AWG	2.79%	2,465	-
044-P-14	CONDENSING UNIT "044-CU-03-2-114B"	PANELBOARD "044-2-114A"	CONDENSING UNIT "044-CU-03-2-114B" VIA DISCONNECT	1	3/4"	(2) 6 AWG	6 AWG	2.73%	2,465	-
044-P-15	TRANSFORMER "T-95 "	PANELBOARD "HE-G"	TRANSFORMER "T-95 "	1	2"	(3) 1/0 AWG	1/0 AWG	0.16%	16,488	-
P-TR-1A	TYPICAL TELECOM ROOM DATA RACK POWER FEED (1-RACK), SIDE A	TYPICAL SOURCE A TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE A RECEPTACLE	1	3/4"	(4) 10 AWG	10 AWG	-	-	-
P-TR-2A	TYPICAL TELECOM ROOM DATA RACK POWER FEED (2-RACK), SIDE A	TYPICAL SOURCE A TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE A RECEPTACLE	1	3/4"	(4) 10 AWG	10 AWG	-	-	-
P-TR-1B	TYPICAL TELECOM ROOM DATA RACK POWER FEED (1-RACK), SIDE B	TYPICAL SOURCE B TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE B RECEPTACLE	1	3/4"	(4) 10 AWG	10 AWG	-	-	-
P-TR-2B	TYPICAL TELECOM ROOM DATA RACK POWER FEED (2-RACK), SIDE B	TYPICAL SOURCE B TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE B RECEPTACLE	1	3/4"	(4) 10 AWG	10 AWG	-	-	-

NOTE(S):
1. NEUTRAL IS UPSIZED.

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

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LOUIS R. LITZAU — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	BLDG 044 - ELECTRICAL SCHEDULES
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Project Number	405-22-700
Building Number	044
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Drawing Number	044EP702
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB

PANELBOARD "65_PB_MDP"" METERING AND LOAD INFORMATION SCHEDULE				
SYSTEM RATINGS: 400A BUS, 400A MCB, 208/120V, 3PH				
LOAD TYPE	DEMAND AMPS (A)	SYSTEM VOLTAGE	DEMAND VA	NOTES
PEAK DEMAND LOAD	89	208	31905	1
25% OF PEAK DEMAND (NEC 220.87)	--	-	7976	
ADDED DEMAND LOAD				
PANELBOARD "65_PB_MDP"	--	-	-	
PANELBOARD "065-119A"	-	-	17625	2
PANELBOARD "065-119B"	--	-	1020	2
REMOVED LOAD				
BUILDING 065 - RACK REDUCTION (-1.5kVA EA. RACK @ 2 RACKS TOTAL)	--	-	-3000	3
TOTAL DEMAND VA			55527	
TOTAL AMPERAGE			154	
% TOTAL LOAD			39%	4

NOTES:
1. PEAK DEMAND IS PROVIDED FROM 30-DAY METERING STUDY. PEAK DEMAND RECORDED FROM 06/10/2025.
2. ADDED LOAD CONSISTS OF NEW GENERAL RECEPTACLES, TR RACKS, HVAC AND/OR LIGHTING DEMAND LOADS; REDUNDANT B-SIDE OVERHEAD RECEPTACLE LOAD IS NOT INCLUDED IN POWER CALCULATIONS AS LOADS DO NOT OPERATE AT FULL LOAD SIMULTANEOUSLY. REFERENCE PANEL SCHEDULES FOR EXACT DEMAND LOAD INFORMATION.
3. PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021), TR RACK LOADS ARE DE-RATED FROM 5000VA TO 3500VA AT DISTRIBUTION LEVEL.
4. TOTAL PERCENT LOADING IS COMPARED TO EQUIPMENT MAIN OVER CURRENT PROTECTIVE DEVICE RATING OF 400A.

PANELBOARD 065_PB_MDP (REVISED)

Location: BLDG 65, RM 122
Supply From: 00_TX_T-65
Mounting: Surface
Enclosure: Type 1

Line Volts: 208
Neutral Volts: 120
Phases: 3
Wires 4

A.I.C Rating: 42K
Bus Rating: 400A
Main Circuit Breaker: 400AF / 400AT / 400AP / 3P

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	PANELBOARD 65-119B	100 A	3	4153	0					3	30 A	CU-1	2
3	"	"	"			3613	0			"	"	"	4
5	"	"	"					3433	0	"	"	"	6
7	CT FOR AIR CONTROLS FURNACE	20 A	3	0	0					2	30 A	O	8
9	"	"	"			0	0			"	"	"	10
11	"	"	"					0	0	3	30 A	CU-3	12
13	TVSS	20 A	3	0	0					"	"	"	14
15	"	"	"			0	0			"	"	"	16
17	"	"	"					0	0	3	30 A	CU-4	18
19	AC-1 / ACCU-1	20 A	2	0	0					"	"	"	20
21	"	"	"			0	0			"	"	"	22
23	AC-1 / ACCU-B	20 A	2					0	0	2	30 A	CU-5	24
25	"	"	"	0	0					"	"	"	26
27	ELEVATOR	100 A	3			0	0			2	50 A	CU-6	28
29	"	"	"					0	0	"	"	"	30
31	"	"	"	0	0					3	40 A	SPARE	32
33	AC-3 / ACCU-3	20 A	1			0	0			"	"	"	34
35	SPACE	"	"					0	0	"	"	"	36
37	PANELBOARD 65-119A	100 A	3	6847	0					3	200 A	LP2	38
39	"	"	"			3697	0			"	"	"	40
41	"	"	"					6827	0	"	"	"	42
43	LP3	200 A	3	0	0					3	200 A	LP1	44
45	"	"	"			0	0			"	"	"	46
47	"	"	"					0	0	"	"	"	48
			Total Load:	11000		7313		10060					
			Total Amps:	92		61		84					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	5200	125.00%	6500	Total Conn. Power Load:	28371 VA
Other	11647	100.00%	11647	Total Est. Power Demand:	26692 VA
Receptacle	1440	100.00% (NOTE 1)	1440	Total Conn. Amperage:	79 A
Lighting	84	125.00%	105	Total Est. Amperage Demand:	74 A
Telecom Rack	10000	NOTE 2	7000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. TELECOM RACK LOADS ARE DE-RATED FROM 5000VA PER RACK TO 3500VA PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021).
3. REDUNDANT LOADS NOT A/B OVERHEAD RACK RECEPTACLES NOT INCLUDED IN POWER CALCULATIONS AS LOADS DO NOT OPERATE AT FULL LOAD SIMULTANEOUSLY.
4. SCHEDULE SHOWN ONLY FOR BRANCH / FEEDER CIRCUIT SIZING ONLY. FOR OVERALL PANEL LOADING INFORMATION REFERENCE ASSOCIATED LOAD SCHEDULE.

PANELBOARD 065-119A

Location: BLDG 065, RM 119
Supply From: 65-DP-TR
Mounting: Surface
Enclosure: Type 1

Line Volts: 208
Neutral Volts: 120
Phases: 3
Wires 4

A.I.C Rating: 22k
Bus Rating: 100A
Main Circuit Breaker: 100AF / 100AT / 3P

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	30 A	3	3333	720					1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"			3333	84			1	20 A	LIGHTING - TR ROOM	4
5	"	"	"					3333	2600	2	40 A	CONDENSING UNIT "065-CU-01-119"	6
7	SPARE	20 A	1	0	2600					"	"	"	8
9	SPARE	20 A	1			0	180			1	20 A	CONVENIENCE RECEPTACLE	10
11	SPARE	20 A	1					0	94	2	15 A	VRF UNIT "065-VRF-01-119"	12
13	SPARE	20 A	1	0	94					"	"	"	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	ACCESS CONTROL PANEL / DOOR POWER	20 A	1					500	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	100					3	30 A	SPD	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	6847		3697		6827					
			Total Amps:	57		31		55					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	5200	125.00%	6500	Total Conn. Power Load:	16304 VA
Other	300	100.00%	300	Total Est. Power Demand:	17625 VA
Receptacle	720	100.00% (NOTE 1)	720	Total Conn. Amperage:	45 A
Lighting	84	125.00%	105	Total Est. Amperage Demand:	49 A
Telecom Rack	10000	100.00%	10000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

PANELBOARD 065-119B

Location: BLDG 065, RM 119
Supply From: 65-DP-TR
Mounting: Surface
Enclosure: Type 1

Line Volts: 208
Neutral Volts: 120
Phases: 3
Wires 4

A.I.C Rating: 22k
Bus Rating: 100A
Main Circuit Breaker: 100AF / 100AT / 3P

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	30 A	3	3333	720					1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"			3333	9			1	20 A	SPARE	4
5	"	"	"					3333	0	1	20 A	SPARE	6
7	SPARE	20 A	1	0	0					1	20 A	SPARE	8
9	SPARE	20 A	1			0	180			1	20 A	SPARE	10
11	SPARE	20 A	1					0	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	SPARE	20 A	1					0	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	100					3	30 A	SPD	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	4153		3613		3433					
			Total Amps:	35		30		29					

LOAD TYPE	Connected Load (VA)	Demand Facror	Estimated Demand (VA)	Panel Totals	
Largest Motor	0	125.00%	0	Total Conn. Power Load:	11020 VA
Other:	300	100.00%	300	Total Est. Power Demand:	11020 VA
Receptacle	720	100.00% (NOTE 1)	720	Total Conn. Amperage:	31 A
Lighting	0	125.00%	0	Total Est. Amperage Demand:	31 A
Telecom Rack	10000	100.00%	10000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

GENERAL NOTES

1. CONTRACTOR SHALL UPDATE ALL PANEL CIRCUIT DIRECTORIES TO INDICATE IN ANY AND ALL CHANGES; ALL REVISED CIRCUIT DIRECTORIES SHALL BE TYPEWRITTEN.
2. FOR ALL "REVISED" PANEL SCHEDULES REFERENCE ASSOCIATED EQUIPMENT LOAD SCHEDULE FOR OVERALL PANEL LOAD. "REVISED" PANEL SCHEDULES ON THIS SHEET ARE SHOWN FOR ADDED BRANCH CIRCUIT SIZING ONLY.
3. ALL DIGITAL POWER METERS (DPM) AND SURGE PROTECTIVE DEVICES (SPD) ARE INTEGRAL TO ELECTRICAL DISTRIBUTION EQUIPMENT, UNLESS OTHERWISE NOTED.
4. SCHEDULES WITH GREY TEXT INDICATE EXISTING PANELBOARD RATINGS, CIRCUITS, AND LOADS. BLACK TEXT INDICATES REVISED CIRCUITS, PROVIDED EQUIPMENT, AND ADDITIONAL LOAD.

BLDG 65 - CONDUIT AND WIRE SCHEDULE - VA VT WHITE RIVER JUNCTION EHRM UPGRADES									
CONDUIT TAG	SERVICE	ROUTING		CONDUIT		CONDUCTORS		VOLTAGE DROP	FAULT CURRENT	NOTES
		FROM	TO	QTY	SIZE	(QTY) & SIZE	GROUND SIZE			
065-P-01	PANELBOARD "065-119A"	PANELBOARD "65_PB_MDP"	PANELBOARD "065-119A"	1	1-1/4"	(3) 3 AWG, (1) 2 AWG	8 AWG	0.63%	8,075	1
065-P-02	PANELBOARD "065-119B"	PANELBOARD "65_PB_MDP"	PANELBOARD "065-119B"	1	1-1/4"	(3) 3 AWG, (1) 2 AWG	8 AWG	0.51%	7,240	1
065-P-03	CONDENSING UNIT "065-CU-01-119"	PANELBOARD "065-119A"	CONDENSING UNIT "065-CU-01-119" VIA DISCONNECT	1	3/4"	(2) 8 AWG	10 AWG	1.79%	8,075	-
P-TR-2A	TYPICAL TELECOM ROOM DATA RACK POWER FEED (2-RACK), SIDE A	TYPICAL SOURCE A TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE A RECEPTACLE	1	3/4"	(4) 10 AWG	10 AWG	--	--	--
P-TR-2B	TYPICAL TELECOM ROOM DATA RACK POWER FEED (2-RACK), SIDE B	TYPICAL SOURCE B TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE B RECEPTACLE	1	3/4"	(4) 10 AWG	10 AWG	--	--	--

NOTE(S):
1. NEUTRAL IS UPSIZED.

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 065 - ELECTRICAL SCHEDULES

Phase: 100% CONSTRUCTION DOCUMENTS

Approved:

FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER

Location: VA VT WHITE RIVER JUNCTION
163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009

Issue Date: 01/16/2026
Checked: NVP/DCW
Drawn: RTS/KDB

Project Number: 405-22-700
Building Number: 065
Drawing Number: 065EP701

MOTOR CONTROL CENTER "66_MC_MCCA" METERING AND LOAD INFORMATION SCHEDULE				
SYSTEM RATINGS: 600A BUS, 600A MCB, 480/277V, 3PH				
LOAD TYPE	DEMAND AMPS (A)	SYSTEM VOLTAGE	DEMAND VA	NOTES
PEAK DEMAND LOAD	18	480	15081	1
25% OF PEAK DEMAND (NEC 220.87)	-	-	3770	
ADDED DEMAND LOAD				
PANELBOARD "66_PB_PPA"	-	-	-	
'A' SIDE TE RECEPTACLE	-	-	2880	2
PANELBOARD "66_PB_PPA-2"	-	-	5793	2
TOTAL DEMAND VA			27525	
TOTAL AMPERAGE			33	
% TOTAL LOAD			6%	3

NOTES:
1. PEAK DEMAND IS PROVIDED FROM 30-DAY METERING STUDY. PEAK DEMAND RECORDED FROM 05/19/2025.
2. ADDED LOAD CONSISTS OF NEW GENERAL RECEPTACLES, TR RACKS, AND HVAC DEMAND LOADS; REDUNDANT B-SIDE OVERHEAD RECEPTACLE LOAD IS NOT INCLUDED IN POWER CALCULATIONS AS LOADS DO NOT OPERATE AT FULL LOAD SIMULTANEOUSLY. REFERENCE PANEL SCHEDULES FOR EXACT DEMAND LOAD INFORMATION.
3. TOTAL PERCENT LOADING IS COMPARED TO EQUIPMENT MAIN OVER CURRENT PROTECTIVE DEVICE RATING OF 600A.

PANELBOARD "66_PB_LPA" METERING AND LOAD INFORMATION SCHEDULE				
SYSTEM RATINGS: 150A BUS, 150A MCB, 480/277V, 3PH				
LOAD TYPE	DEMAND AMPS (A)	SYSTEM VOLTAGE	DEMAND VA	NOTES
PEAK DEMAND LOAD	18	480	15347	1
25% OF PEAK DEMAND (NEC 220.87)	-	-	3837	
ADDED DEMAND LOAD				
PANELBOARD "66_PE_PPA"	-	-	-	
'A' SIDE TE RECEPTACLE	-	-	2880	2
PANELBOARD "66_PB_PPA-2"	-	-	5793	2
TOTAL DEMAND VA			27857	
TOTAL AMPERAGE			34	
% TOTAL LOAD			22%	3

NOTES:
1. PEAK DEMAND IS PROVIDED FROM 30-DAY METERING STUDY. PEAK DEMAND RECORDED FROM 05/19/2025.
2. ADDED LOAD CONSISTS OF NEW GENERAL RECEPTACLES, TR RACKS, AND HVAC DEMAND LOADS; REDUNDANT B-SIDE OVERHEAD RECEPTACLE LOAD IS NOT INCLUDED IN POWER CALCULATIONS AS LOADS DO NOT OPERATE AT FULL LOAD SIMULTANEOUSLY. REFERENCE PANEL SCHEDULES FOR EXACT DEMAND LOAD INFORMATION.
3. TOTAL PERCENT LOADING IS COMPARED TO EQUIPMENT MAIN OVER CURRENT PROTECTIVE DEVICE RATING OF 150A.

PANELBOARD "66_PB_PPA" METERING AND LOAD INFORMATION SCHEDULE				
SYSTEM RATINGS: 225A BUS, 225A MCB, 208/120V, 3PH				
LOAD TYPE	DEMAND AMPS (A)	SYSTEM VOLTAGE	DEMAND VA	NOTES
PEAK DEMAND LOAD	21	208	7602	1
25% OF PEAK DEMAND (NEC 220.87)	-	-	1900	
ADDED DEMAND LOAD				
'A' SIDE TE RECEPTACLE	-	-	2880	2
PANELBOARD "66_PB_PPA-2"	-	-	5793	2
TOTAL DEMAND VA			18175	
TOTAL AMPERAGE			50	
% TOTAL LOAD			22%	3

NOTES:
1. PEAK DEMAND IS PROVIDED FROM 30-DAY METERING STUDY. PEAK DEMAND RECORDED FROM 08/10/2025.
2. ADDED LOAD CONSISTS OF NEW GENERAL RECEPTACLES, TR RACKS, AND HVAC DEMAND LOADS; REDUNDANT B-SIDE OVERHEAD RECEPTACLE LOAD IS NOT INCLUDED IN POWER CALCULATIONS AS LOADS DO NOT OPERATE AT FULL LOAD SIMULTANEOUSLY. REFERENCE PANEL SCHEDULES FOR EXACT DEMAND LOAD INFORMATION.
3. TOTAL PERCENT LOADING IS COMPARED TO EQUIPMENT MAIN OVER CURRENT PROTECTIVE DEVICE RATING OF 225A.

BLDG 066 - PANELBOARD "66_PB_PPA-1" CALCULATED LOAD INFORMATION SCHEDULE				
SYSTEM RATINGS: 225A BUS, 100A MCB, 208/120V, 3PH				
LOAD TYPE	DEMAND AMPS (A)	SYSTEM VOLTAGE	DEMAND VA	NOTES
PANELBOARD "66_PB_PPA" PEAK DEMAND LOAD	21	208	7602	1
25% OF PEAK DEMAND (NEC 220.87)	-	-	1900	
ADDED DEMAND LOAD				
PANELBOARD "66_PB_PPA-2"	-	-	5793	2
'B' SIDE TE RECEPTACLE	-	-	2880	2
TOTAL DEMAND VA			18175	
TOTAL AMPERAGE			50	
% TOTAL LOAD			50%	3

NOTES:
1. PEAK DEMAND IS OBTAINED FROM ON-SITE INVESTIGATIONS AN 30 DAY METERING DATA COLLECTED FROM PANELBOARD "66_PB_PPA". BASED ON POWER FLOW TOPOLOGY, A CONSERVATIVE DEMAND FACTOR OF 100% OF TOTAL LOAD IS APPLIED TO BUILDING 066.
2. ADDED LOAD CONSISTS OF NEW GENERAL RECEPTACLES, TR RACKS, AND HVAC DEMAND LOADS; REFERENCE PANEL SCHEDULES FOR EXACT DEMAND LOAD INFORMATION.
3. TOTAL PERCENT LOADING IS COMPARED TO EQUIPMENT UPSTREAM OVER CURRENT PROTECTIVE DEVICE RATING OF 100A.

BLDG 066 - PANELBOARD "66_PB_PPA-2" CALCULATED LOAD INFORMATION SCHEDULE				
SYSTEM RATINGS: 100A BUS, MLO, 208/120V, 3PH				
LOAD TYPE	DEMAND AMPS (A)	SYSTEM VOLTAGE	DEMAND VA	NOTES
PANELBOARD "66_PB_PPA" PEAK DEMAND LOAD	21	208	7602	1
25% OF PEAK DEMAND (NEC 220.87)	-	-	1900	
ADDED DEMAND LOAD				
PANELBOARD "66_PB_PPA-2"	-	-	5793	2
'B' SIDE TE RECEPTACLE	-	-	2880	2
TOTAL DEMAND VA			18175	
TOTAL AMPERAGE			50	
% TOTAL LOAD			50%	3

NOTES:
1. PEAK DEMAND IS OBTAINED FROM ON-SITE INVESTIGATIONS AN 30 DAY METERING DATA COLLECTED FROM PANELBOARD "66_PB_PPA". BASED ON POWER FLOW TOPOLOGY, A CONSERVATIVE DEMAND FACTOR OF 100% OF TOTAL LOAD IS APPLIED TO BUILDING 066.
2. ADDED LOAD CONSISTS OF TR RACKS, HVAC, AND GENERAL RECEPTACLE DEMAND LOADS. REFERENCE PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
3. TOTAL PERCENT LOADING IS COMPARED TO EQUIPMENT UPSTREAM OVER CURRENT PROTECTIVE DEVICE RATING OF 100A.

PANELBOARD 66_PB_PPA (REVISED)

Location: BLDG 66, RM B1000
Supply From: 66_TX_PPA
Mounting: Surface
Enclosure: Type 1

Line Volts: 208
Neutral Volts: 120
Phases: 3
Wires 4

A.I.C Rating: 42K
Bus Rating: 225A
Main Circuit Breaker: 225AF / 225AT / 225AP / 3P

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A		B		C		Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	PANELBOARD "PPA-1"	100 A	3	1703	0					1	20 A	UNKNOWN LOAD	2
3	"	"	"			1615	0			1	20 A	UNKNOWN LOAD	4
5	"	"	"					4798	0	1	20 A	UNKNOWN LOAD	6
7	UNKNOWN LOAD	20 A	1	0	0					1	20 A	UNKNOWN LOAD	8
9	UNKNOWN LOAD	20 A	1			0	0			1	20 A	UNKNOWN LOAD	10
11	UNKNOWN LOAD	20 A	1					0	0	1	20 A	UNKNOWN LOAD	12
13	UNKNOWN LOAD	20 A	1	0	0					1	20 A	UNKNOWN LOAD	14
15	UNKNOWN LOAD	20 A	1			0	0			1	20 A	UNKNOWN LOAD	16
17	UNKNOWN LOAD	20 A	1					0	0	1	20 A	UNKNOWN LOAD	18
19	UNKNOWN LOAD	20 A	1	0	0					1	20 A	UNKNOWN LOAD	20
21	UNKNOWN LOAD	20 A	1			0	0			1	20 A	UNKNOWN LOAD	22
23	UNKNOWN LOAD	20 A	1					0	0	1	20 A	UNKNOWN LOAD	24
25	UNKNOWN LOAD	20 A	1	0	0					1	20 A	UNKNOWN LOAD	26
27	UNKNOWN LOAD	20 A	1			0	0			2	60 A	UNKNOWN LOAD	28
29	UNKNOWN LOAD	20 A	1					0	0	-	-		30
31	UNKNOWN LOAD	20 A	1	0	0					-	-	SPACE	32
33	SPACE	-	-			0	0			-	-	SPACE	34
35	SPACE	-	-					0	0	-	-	SPACE	36
37	**TE RECEPTACLE 'A' SIDE**	**30 A**	**1**	**1440**	0					-	-	SPACE	38
39	SPACE	-	-			0	0			-	-	SPACE	40
41	SPACE	-	-					0	0	-	-	SPACE	42
			Total Load	3143		1615		4798					
			Total Amps:	26		13		40					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	0	125.00%	0	Total Conn. Power Load	9556 VA
Other	4758	100.00%	4758	Total Est. Power Demand	9556 VA
Receptacle	0	100.00% (NOTE 1)	0	Total Conn. Amperage	27 A
Lighting	0	125.00%	0	Total Est. Amperage Demand	27 A
Telecom Rack	4798	100.00%	4798		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. REDUNDANT LOADS NOT A/B OVERHEAD RACK RECEPTACLES NOT INCLUDED IN POWER CALCULATIONS AS LOADS DO NOT OPERATE AT FULL LOAD SIMULTANEOUSLY.
3. SCHEDULE SHOWN ONLY FOR BRANCH / FEEDER CIRCUIT SIZING ONLY. FOR OVERALL PANEL LOADING INFORMATION REFERENCE ASSOCIATED LOAD SCHEDULE.

PANELBOARD 66_PB_PPA-2 (REVISED)

Location: BLDG 66, RM B1000
Supply From: 66_PB_PPA-1
Mounting: Surface
Enclosure: Type 1

Line Volts: 208
Neutral Volts: 120
Phases: 3
Wires 4

A.I.C Rating: 22K
Bus Rating: 100 A
Main Circuit Breaker: MLO

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A		B		C		Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	"	20 A	1	0	0					1	20 A	"	2
3	"	20 A	1			0	0			1	20 A	"	4
5	SPARE	20 A	1					0	0	1	20 A	"	6
7	SPARE	20 A	1	0	0					1	20 A	SPARE	8
9	SPARE	20 A	1			0	0			1	20 A	UNKNOWN LOAD	10
11	**OUTDOOR SERVICE RECEPTACLE**	**20 A**	**1**					180	0	3	30 A	"	12
13	**RECEPTACLES RM - 1006B**	**20 A**	**1**	720	0					-	-	"	14
15	**ACCESS CONTROL PANEL / DOOR POWER**	**20 A**	**1**			500	0			-	-	"	16
17	**VRF UNIT "002-VRF-01-107"**	**15 A**	**2**					803	0	1	-	SPACE	18
19	**"**	**"**	**"**	803	0					1	-	SPACE	20
21	**TRANSFER FAN "066-TF-01-1006B"**	**15 A**	**2**			1115	0			1	-	SPACE	22
23	**"**	**"**	**"**					1115	0	1	-	SPACE	24
25	**TE RECEPTACLE 'B' SIDE**	**30 A**	**1**	2880	0					1	-	SPACE	26
27	SPACE	-	1			0	0			1	-	SPACE	28
29	SPACE	-	1					0	0	1	-	SPACE	30
			Total Load	4403		1615		2098					
			Total Amps:	37		13		17					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	2230	125.00%	2787	Total Conn. Power Load	8116 VA
Other	-594	100.00%	-594	Total Est. Power Demand	8673 VA
Receptacle	3600	100.00% (NOTE 1)	3600	Total Conn. Amperage	23 A
Lighting	0	125.00%	0	Total Est. Amperage Demand	24 A
Telecom Rack	2880	100.00%	2880		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SCHEDULE SHOWN ONLY FOR BRANCH / FEEDER CIRCUIT SIZING ONLY. FOR OVERALL PANEL LOADING INFORMATION REFERENCE ASSOCIATED LOAD SCHEDULE.

BLDG 66 - CONDUIT AND WIRE SCHEDULE - VA VT WHITE RIVER JUNCTION EHRM UPGRADES										
CONDUIT TAG	SERVICE	ROUTING		CONDUIT		CONDUCTORS		VOLTAGE DROP	FAULT CURRENT	NOTES
		FROM	TO	QTY	SIZE	(QTY) & SIZE	GROUND SIZE			
066-P-01	TE RECEPTACLE 'B' SIDE	PANELBOARD "66_PB_PPA-2"	TE RECEPTACLE 'B' SIDE	1	3/4"	(2) 10 AWG	10 AWG	1.02%	1,839	-
066-P-02	TE RECEPTACLE 'A' SIDE	PANELBOARD "66_PB_PPA"	TE RECEPTACLE 'A' SIDE	1	3/4"	(2) 4 AWG	4 AWG	4.72%	3,409	1
066-P-03	CONDENSING UNIT "066-CU-01-1006"	PANELBOARD "66_PB_PPA-2"	CONDENSING UNIT "066-CU-01-1006"	1	3/4"	(2) 10 AWG	10 AWG	2.60%	1,839	-
NOTE(S):										
1. CONDUCTORS OVERSIZED DUE TO VOLTAGE DROP, CONTRACTOR SHALL PRIOVIDE JUCTION BOX AND INSULATED TAPS NEAR EQUIPMENT TO STEP DOWN DONSUTIOR SIZE FOR EQUIPMENT TERMINATION.										

GENERAL NOTES

1. CONTRACTOR SHALL UPDATE ALL PANEL CIRCUIT DIRECTORIES TO INDICATE IN ANY AND ALL CHANGES; ALL REVISED CIRCUIT DIRECTORIES SHALL BE TYPEWRITTEN.
2. FOR ALL "REVISED" PANEL SCHEDULES REFERENCE ASSOCIATED EQUIPMENT LOAD SCHEDULE FOR OVERALL PANEL LOAD. "REVISED" PANEL SCHEDULES ON THIS SHEET ARE SHOWN FOR ADDED BRANCH CIRCUIT SIZING ONLY.
3. ALL DIGITAL POWER METERS (DPM) AND SURGE PROTECTIVE DEVICES (SPD) ARE INTEGRAL TO ELECTRICAL DISTRIBUTION EQUIPMENT, UNLESS OTHERWISE NOTED.
4. SCHEDULES WITH GREY TEXT INDICATE EXISTING PANELBOARD RATINGS, CIRCUITS, AND LOADS. BLACK TEXT INDICATES REVISED CIRCUITS, PROVIDED EQUIPMENT, AND ADDITIONAL LOAD.

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032
SPEESDESIGNBUILD

STAMP

LOUIS R. LITZKO
STATE OF WASHINGTON
55681
1-16-26
REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	BLDG 066 - ELECTRICAL SCHEDULES
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Project Number	405-22-700
Building Number	066
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Drawing Number	066EP701
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB

SWITCHBOARD "67_SB_MDP67" METERING AND LOAD INFORMATION SCHEDULE				
SYSTEM RATINGS: 400A BUS, 400A MCB, 480/277V, 3PH				
LOAD TYPE	DEMAND AMPS (A)	SYSTEM VOLTAGE	DEMAND VA	NOTES
PEAK DEMAND LOAD	96	480	79422	1
25% OF PEAK DEMAND (NEC 220.87)	-	-	19856	
ADDED DEMAND LOAD				
PANELBOARD "067-1109A"	-	-	11138	2
PANELBOARD "067-1109B"	-	-	1020	2
REMOVED LOAD				
BUILDING 067 - RACK REDUCTION (-2.5kVA EA. RACK @ 1 RACKS TOTAL)	-	-	-2500	3
TOTAL DEMAND VA			108936	
TOTAL AMPERAGE			131	
% TOTAL LOAD			33%	4

NOTES:
1. PEAK DEMAND IS PROVIDED FROM 30-DAY METERING STUDY. PEAK DEMAND RECORDED FROM 06/04/2025.
2. ADDED LOAD CONSISTS OF NEW GENERAL RECEPTACLES, TR RACKS, HVAC AND/OR LIGHTING DEMAND LOADS; REDUNDANT B-SIDE OVERHEAD RECEPTACLE LOAD IS NOT INCLUDED IN POWER CALCULATIONS AS LOADS DO NOT OPERATE AT FULL LOAD SIMULTANEOUSLY. REFERENCE PANEL SCHEDULES FOR EXACT DEMAND LOAD INFORMATION.
3. PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021), TR RACK LOADS ARE DE-RATED FROM 5000VA TO 2500VA AT SUBSTATION LEVEL.
4. TOTAL PERCENT LOADING IS COMPARED TO EQUIPMENT MAIN OVER CURRENT PROTECTIVE DEVICE RATING OF 400A.

PANELBOARD "67_PB_LNGA" METERING AND LOAD INFORMATION SCHEDULE				
SYSTEM RATINGS: 150A BUS, 150A MCB, 208/120V, 3PH				
LOAD TYPE	DEMAND AMPS (A)	SYSTEM VOLTAGE	DEMAND VA	NOTES
PEAK DEMAND LOAD	41	208	14630	1
25% OF PEAK DEMAND (NEC 220.87)	-	-	3658	
ADDED DEMAND LOAD				
PANELBOARD "067-1109B"	-	-	6020	2
REMOVED LOAD				
BUILDING 067 - RACK REDUCTION (-1.5kVA EA. RACK @ 1 RACKS TOTAL]	-	-	-1500	3
TOTAL DEMAND VA			22808	
TOTAL AMPERAGE			63	
% TOTAL LOAD			42%	4

NOTES:
1. PEAK DEMAND IS PROVIDED FROM 30-DAY METERING STUDY. PEAK DEMAND RECORDED FROM 06/05/2025.
2. ADDED LOAD CONSISTS OF NEW GENERAL RECEPTACLES, TR RACKS, HVAC AND/OR LIGHTING DEMAND LOADS; REFERENCE PANEL SCHEDULES FOR EXACT DEMAND LOAD INFORMATION.
3. PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021), TR RACK LOADS ARE DE-RATED FROM 5000VA TO 3500VA AT DISTRIBUTION LEVEL.
4. TOTAL PERCENT LOADING IS COMPARED TO EQUIPMENT MAIN OVER CURRENT PROTECTIVE DEVICE RATING OF 150A.

PANELBOARD 67_PB_LNGA (REVISED)

Location: BLDG 67, RM G104B
Supply From: MDP67
Mounting: Surface
Enclosure: Type 1

Line Volts: 208
Neutral Volts: 120
Phases: 3
Wires 4

A.I.C Rating: 42K
Bus Rating: 150A / 3P
Main Circuit Breaker: 225AF / 150AT / 150AP / 3P

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	VA PER PHASE B	VA PER PHASE C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	OVERHEAD DOOR	20 A	1	0	0		1	20 A	RECEPTACLE	2
3	RECEPTACLE	20 A	1		0	0	1	20 A	RECEPTACLE	4
5	RECEPTACLE	20 A	1			0	1	20 A	RECEPTACLE	6
7	RECEPTACLE	20 A	1	0	0		1	20 A	RECEPTACLE	8
9	RECEPTACLE	20 A	1		0	0	2	20 A	208V PRINTER RECEPTACLE	10
11	RECEPTACLE	20 A	1			0	1	-	-	12
13	RECEPTACLE	20 A	1	0	0		1	20 A	RESTRAINT/DOCK LEVELER	14
15	RECEPTACLE	20 A	1		0	0	1	20 A	RESTRAINT/DOCK LEVELER	16
17	RECEPTACLE	20 A	1			0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0		1	20 A	RECEPTACLE	20
21	SPARE	20 A	1		0	0	3	30 A	SPARE	22
23	OVERHEAD DOOR	20 A	1			0	*	*	*	24
25	RECEPTACLE	20 A	1	0	0		*	*	*	26
27	SPARE	20 A	1		0	0	1	20 A	SPARE	28
29	OVERHEAD DOOR	20 A	1			0	1	20 A	SPARE	30
31	**PANELBOARD 067-1109B**	**100 A**	**3**	2487	0		1	20 A	SPARE	32
33	*	*	*		1767	0	1	20 A	SPARE	34
35	*	*	*			1767	1	20 A	SPARE	36
37	PANEL LNYA	100 A	150 A	0	0		3	100 A	PANEL LNZA	38
39	*	*	*		0	0	*	*	*	40
41	*	*	*			0	*	*	*	42
		Total Load:		2487	1767	1767				
		Total Amps:		21	15	15				

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	0	125.00%	0	Total Conn. Power Load	6020 VA
Other	300	100.00%	300	Total Est. Power Demand	4520 VA
Receptacle	720	100.00% (NOTE 1)	720	Total Conn. Amperage	17 A
Lighting	0	125.00%	0	Total Est. Amperage Demand	13 A
Telecom Rack	5000	NOTE 2	3500		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. TELECOM RACK LOADS ARE DE-RATED FROM 5000VA PER RACK TO 3500VA PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021).
3. SCHEDULE SHOWN ONLY FOR BRANCH / FEEDER CIRCUIT SIZING ONLY. FOR OVERALL PANEL LOADING INFORMATION REFERENCE ASSOCIATED LOAD SCHEDULE.

PANELBOARD "67_PB_EQDP_67A" METERING AND LOAD INFORMATION SCHEDULE				
SYSTEM RATINGS: 250A BUS, MLO, 480/277V, 3PH				
LOAD TYPE	DEMAND AMPS (A)	SYSTEM VOLTAGE	DEMAND VA	NOTES
PEAK DEMAND LOAD	90	480	74775	1
25% OF PEAK DEMAND (NEC 220.87)	-	-	18694	
ADDED DEMAND LOAD				
PANELBOARD "067-1109A"	-	-	11138	2
REMOVED LOAD				
BUILDING 067 - RACK REDUCTION (-1.5kVA EA. RACK @ 1 RACKS TOTAL)	-	-	-1500	3
TOTAL DEMAND VA			103107	
TOTAL AMPERAGE			124	
% TOTAL LOAD			50%	4

NOTES:
1. PEAK DEMAND IS PROVIDED FROM 30-DAY METERING STUDY. PEAK DEMAND RECORDED FROM 06/04/2025.
2. ADDED LOAD CONSISTS OF NEW GENERAL RECEPTACLES, TR RACKS, HVAC AND/OR LIGHTING DEMAND LOADS; REFERENCE PANEL SCHEDULES FOR EXACT DEMAND LOAD INFORMATION.
3. PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021), TR RACK LOADS ARE DE-RATED FROM 5000VA TO 3500VA AT DISTRIBUTION LEVEL.
4. TOTAL PERCENT LOADING IS COMPARED TO EQUIPMENT SYSTEM RATING OF 250A.

PANELBOARD 67_PB_EQDP_67A (REVISED)

Location: BLDG 67, RM G104B
Supply From: MDP67
Mounting: Surface
Enclosure: Type 1

Line Volts: 480
Neutral Volts: 277
Phases: 3
Wires 4

A.I.C Rating: 42K
Bus Rating: 250A
Main Circuit Breaker: MLO

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	VA PER PHASE B	VA PER PHASE C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	ELEVATOR	60 A	3	0	0		3	100 A	HVAC-1C	2
3	"	"	"		0	0	"	"	"	4
5	"	"	"			0	"	"	"	6
7	P-1	15 A	3	0	0		3	15 A	P-2	8
9	"	"	"		0	0	"	"	"	10
11	"	"	"			0	"	"	"	12
13	HEJA	"	3	0	0		"	"	P-5	14
15	"	"	"		0	0	"	"	"	16
17	"	"	"			0	"	"	"	18
19	P-5	15 A	3	0	0		3	45 A	HVAC-1B	20
21	"	"	"		0	0	"	"	"	22
23	"	"	"			0	"	"	"	24
25	CP-1	20 A	3	0	0		1	20 A	LIGHTING	26
27	"	"	"		0	0	1	20 A	LIGHTING	28
29	"	"	"			0	1	20 A	SPARE	30
31	**PANELBOARD 067-1109A**	**100 A**	**3**	4231	0		3	40 A	COMPRESSOR	32
33	*	*	*		2031	0	3	-	-	34
35	*	*	*			4011	*	*	*	36
37	TRANSFORMER TLEGA	40 A	3	0	0		*	*	SPACE	38
39	"	"	"		0	0	-	-	SPACE	40
41	"	"	"			0	-	-	SPACE	42
		Total Load:		4231	2031	4011				
		Total Amps:		35	17	33				

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	3380	125.00%	4225	Total Conn. Power Load	10272 VA
Other	908	100.00%	908	Total Est. Power Demand	9638 VA
Receptacle	900	100.00% (NOTE 1)	900	Total Conn. Amperage	12 A
Lighting	84	125.00%	105	Total Est. Amperage Demand	12 A
Telecom Rack	5000	NOTE 3	3500		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. TELECOM RACK LOADS ARE DE-RATED FROM 5000VA PER RACK TO 3500VA PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021).
3. SCHEDULE SHOWN ONLY FOR BRANCH / FEEDER CIRCUIT SIZING ONLY. FOR OVERALL PANEL LOADING INFORMATION REFERENCE ASSOCIATED LOAD SCHEDULE.

PANELBOARD 067-1109A

Location: BLDG 067, RM 1109
Supply From: 67_PB_EQDP_67A
Mounting: Surface
Enclosure: Type 1

Line Volts: 208
Neutral Volts: 120
Phases: 3
Wires 4

A.I.C Rating: 22k
Bus Rating: 100A
Main Circuit Breaker: 100AF / 100AT / 3P

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	VA PER PHASE B	VA PER PHASE C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	20 A	3	1667	720		1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"		1667	84	1	20 A	LIGHTING - TR ROOM	4
5	"	"	"			1667	1	20 A	CONDENSING UNIT "067-CU-01-1109"	6
7	SPARE	20 A	1	0	1690		"	"	"	8
9	SPARE	20 A	1		0	180	1	20 A	RECEPTACLES - OUTDOOR	10
11	SPARE	20 A	1			0	2	15 A	VRF UNIT "067-VRF-01-1109"	12
13	SPARE	20 A	1	0	54		"	"	"	14
15	SPARE	20 A	1		0	0	1	20 A	SPARE	16
17	SPARE	20 A	1			0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0		1	20 A	SPARE	20
21	SPARE	20 A	1		0	0	1	20 A	SPARE	22
23	ACCESS CONTROL PANEL / DOOR POWER	20 A	1			500	1	20 A	SPARE	24
25	SPARE	20 A	1	0	100		3	30 A	SPD	26
27	SPARE	20 A	1		0	100	"	"	"	28
29	SPARE	20 A	1			0	"	"	"	30
		Total Load:		4231	2031	4011				
		Total Amps:		35	17	33				

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	3380	125.00%	4225	Total Conn. Power Load	10272 VA
Other	908	100.00%	908	Total Est. Power Demand	11138 VA
Receptacle	900	100.00%	900	Total Conn. Amperage	29 A
Lighting	84	125.00%	105	Total Est. Amperage Demand	31 A
Telecom Rack	5000	100.00%	5000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

PANELBOARD 067-1109B

Location: BLDG 067, RM 1109
Supply From: 67_PB_LNGA
Mounting: Surface
Enclosure: Type 1

Line Volts: 208
Neutral Volts: 120
Phases: 3
Wires 4

A.I.C Rating: 22k
Bus Rating: 100A
Main Circuit Breaker: 100AF / 100AT / 3P

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	VA PER PHASE B	VA PER PHASE C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	20 A	3	1667	720		1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"		1667	0	1	20 A	SPARE	4
5	"	"	"			1667	0	1	20 A	SPARE	6
7	SPARE	20 A	1	0	0		1	20 A	SPARE	8
9	SPARE	20 A	1		0	0	1	20 A	SPARE	10
11	SPARE	20 A	1			0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0		1	20 A	SPARE	14
15	SPARE	20 A	1		0	0	1	20 A	SPARE	16
17	SPARE	20 A	1			0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0		1	20 A	SPARE	20
21	SPARE	20 A	1		0	0	1	20 A	SPARE	22
23	SPARE	20 A	1			0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	100		3	30 A	SPD	26
27	SPARE	20 A	1		0	100	*	*	*	28
29	SPARE	20 A	1			0	0	100	*	*	*	30
		Total Load:		2487	1767	1767				
		Total Amps:		21	15	15				

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	0	125.00%	0	Total Conn. Power Load	6020 VA
Other	300	100.00%	300	Total Est. Power Demand	6020 VA
Receptacle	720	100.00%	720	Total Conn. Amperage	17 A
Lighting	0	125.00%	0	Total Est. Amperage Demand	17 A
Telecom Rack	5000	100.00%	5000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

BLDG 67 - CONDUIT AND WIRE SCHEDULE - VA VT WHITE RIVER JUNCTION EHRM UPGRADES										
CONDUIT TAG	SERVICE	ROUTING		CONDUIT		CONDUCTORS		VOLTAGE DROP	FAULT CURRENT	NOTES
		FROM	TO	QTY	SIZE	(QTY) & SIZE	GROUND SIZE			
067-P-01	PANELBOARD "067-1109B"	PANELBOARD "67_PB_LNGA"	PANELBOARD "067-1109B"	1	1-1/4"	(3) 3 AWG, (1) 2 AWG	8 AWG	0.34%	1,789	1
067-P-02	TRANSFORMER "TX-67-A"	PANELBOARD "67_PB_EQDP_67A"	TRANSFORMER "TX-67-A"	1	1-1/4"	(3) 8 AWG	10 AWG	0.21%	10,683	-
067-P-03A	PANELBOARD "67-1109A"	TRANSFORMER "TX-67-A"	ENCLOSED CIRCUIT BREAKER "ECB-TX-67-A"	1	1-1/4"	(3) 3 AWG, (1) 2 AWG	8 AWG	0.06%	3,404	1
067-P-03B	PANELBOARD "67-1109A"	ENCLOSED CIRCUIT BREAKER "ECB-TX-67-A"	PANELBOARD "67-1109A"	1	1-1/4"	(3) 3 AWG, (1) 2 AWG	8 AWG	0.66%	2,259	1
067-P-04	CONDENSING UNIT "067-CU-01-1109"	PANELBOARD "065-119A"	CONDENSING UNIT "067-CU-01-1109" VIA DISCONNECT	1	3/4"	(2) 8 AWG	10 AWG	1.63%	2,259	-
P-TR-1A	TYPICAL TELECOM ROOM DATA RACK POWER FEED (1-RACK), SIDE A	TYPICAL SOURCE A TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE A RECEPTACLE	1	3/4"	(4) 10 AWG	10 AWG	-	-	-
P-TR-1B	TYPICAL TELECOM ROOM DATA RACK POWER FEED (1-RACK), SIDE B	TYPICAL SOURCE B TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE B RECEPTACLE	1	3/4"	(4) 10 AWG	10 AWG	-	-	-

NOTE(S):
1. NEUTRAL IS UPSIZED.

GENERAL NOTES

1. CONTRACTOR SHALL UPDATE ALL PANEL CIRCUIT DIRECTORIES TO INDICATE IN ANY AND ALL CHANGES; ALL REVISED CIRCUIT DIRECTORIES SHALL BE TYPEWRITTEN.
2. FOR ALL "REVISED" PANEL SCHEDULES REFERENCE ASSOCIATED EQUIPMENT LOAD SCHEDULE FOR OVERALL PANEL LOAD. "REVISED" PANEL SCHEDULES ON THIS SHEET ARE SHOWN FOR ADDED BRANCH CIRCUIT SIZING ONLY.
3. ALL DIGITAL POWER METERS (DPM) AND SURGE PROTECTIVE DEVICES (SPD) ARE INTEGRAL TO ELECTRICAL DISTRIBUTION EQUIPMENT, UNLESS OTHERWISE NOTED.
4. SCHEDULES WITH GREY TEXT INDICATE EXISTING PANELBOARD RATINGS, CIRCUITS, AND LOADS. BLACK TEXT INDICATES REVISED CIRCUITS, PROVIDED EQUIPMENT, AND ADDITIONAL LOAD.

Revisions:	Date:

CONSULTANT/ DISCIPLINE

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STAMP

LOUIS R. LITZKO — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	BLDG 067 - ELECTRICAL SCHEDULES
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Project Number	405-22-700
Building Number	067
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Drawing Number	067EP701
Issue Date	01/16/2026
Checked	NVP/DCW
Drawn	RTS/KDB

PANELBOARD "88_PB_P1N_101" METERING AND LOAD INFORMATION SCHEDULE				
SYSTEM RATINGS: 800A BUS, 800A MCB, 208/120V, 3PH				
LOAD TYPE	DEMAND AMPS (A)	SYSTEM VOLTAGE	DEMAND VA	NOTES
PEAK DEMAND LOAD	265	208	95399	1
25% OF PEAK DEMAND (NEC 220.87)	-	-	23850	
ADDED DEMAND LOAD				
PANELBOARD "088-DP-TR"	-	-	600	
PANELBOARD "088-088-G123AA"	-	-	12710	2
PANELBOARD "088-088-G123AB"	-	-	1020	2
PANELBOARD "088-G1105CA"	-	-	12565	2
PANELBOARD "088-G1105CB"	-	-	1020	2
REMOVED LOAD				
BUILDING 088 - RACK REDUCTION (-2.5kVA EA. RACK @ 4 RACKS TOTAL)	-	-	-10000	3
		TOTAL DEMAND VA	137163	
		TOTAL AMPERAGE	381	
		% TOTAL LOAD	48%	4

NOTES:
1. PEAK DEMAND IS PROVIDED FROM 30-DAY METERING STUDY. PEAK DEMAND RECORDED FROM 06/06/2025.
2. ADDED LOAD CONSISTS OF NEW GENERAL RECEPTACLES, TR RACKS, HVAC AND/OR LIGHTING DEMAND LOADS; REDUNDANT B-SIDE OVERHEAD RECEPTACLE LOAD IS NOT INCLUDED IN POWER CALCULATIONS AS LOADS DO NOT OPERATE AT FULL LOAD SIMULTANEOUSLY. REFERENCE PANEL SCHEDULES FOR EXACT DEMAND LOAD INFORMATION.
3. PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021), TR RACK LOADS ARE DE-RATED FROM 5000VA TO 2500VA AT SUBSTATION LEVEL.
4. TOTAL PERCENT LOADING IS COMPARED TO EQUIPMENT MAIN OVER CURRENT PROTECTIVE DEVICE RATING OF 800A.

PANELBOARD 88_PB_P1N_101 (REVISED)

Location: BLDG 88, RM G124A
Supply From: 88-ATS-1
Mounting: Surface
Enclosure: Type 1

Line Volts: 208
Neutral Volts: 120
Phases: 3
Wires 4

A.I.C Rating: 42K
Bus Rating: 800A
Main Circuit Breaker: 800AF / 800AT / 800AP / 3P

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	PANEL LR1N-101	100 A	3	0	0					3	100 A	PANEL LR1N-201	2
3	"	"	"			G	0			"	"	"	4
5	"	"	"					0	0	"	"	"	6
7	PANEL LR1N-101	100 A	3	0	0					3	100 A	PANEL LR1N-203	8
9	"	"	"			0	0			"	"	"	10
11	"	"	"					0	0	"	"	"	12
13	CHILLER	450 A	3	0	0					3	175 A	ELEVATOR RM EMR G122	14
15	"	"	"			0	0			"	"	"	16
17	"	"	"					0	0	"	"	"	18
19	**PANELBOARD 088-DP-TR**	**225 A**	3	8569	0					1	20 A	SPACE	20
21	"	"	"			9635	0			"	"	SPACE	22
23	"	"	"					9498	0	"	"	SPACE	24
25	TRANSFER SWITCH 88-ATS-2	200 A	3	0	0					3	200 A	TRANSFER SWITCH 88-ATS-3	26
27	"	"	"			0	0			"	"	"	28
29	"	"	"					0	0	"	"	"	30
31	TVSS	60 A	3	0	0					"	"	SPACE	32
33	"	"	"			0	0			"	"	SPACE	34
35	"	"	"					0	0	"	"	SPACE	36
			Total Load:	8569		9635		9498					
			Total Amps:	71		80		79					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	583	125.00%	728	Total Conn. Power Load	27703 VA
Other	3613	100.00%	3613	Total Est. Power Demand	17915 VA
Receptacle	3240	100.00% (NOTE 1)	3240	Total Conn. Amperage	77 A
Lighting	267	125.00%	334	Total Est. Amperage Demand	50 A
Telecom Rack	20000	NOTE 3	10000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. DIGITAL POWER METER (DPM) AND SURGE PROTECTION DEVICE (SPD) TO BE INTEGRAL TO PANEL (FACTORY INSTALLED).
3. TELECOM RACK LOADS ARE DE-RATED FROM 5000VA PER RACK TO 2500VA PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021).
4. REDUNDANT LOADS NOT A/B OVERHEAD RACK RECEPTACLES NOT INCLUDED IN POWER CALCULATIONS AS LOADS DO NOT OPERATE AT FULL LOAD SIMULTANEOUSLY.
5. SCHEDULE SHOWN ONLY FOR BRANCH / FEEDER CIRCUIT SIZING ONLY. FOR OVERALL PANEL LOADING INFORMATION REFERENCE ASSOCIATED LOAD SCHEDULE.

PANELBOARD 088-DP-TR

Location: BLDG 088, RM G124A
Supply From: PANEL "88_PB_P1N_101"
Mounting: Surface
Enclosure: Type 1

Line Volts: 208
Neutral Volts: 120
Phases: 3
Wires 4

A.I.C Rating: 42K
Bus Rating: 225A
Main Circuit Breaker: 225AF / 225AT / 3P / LSI

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	PANELBOARD 088-G123AA	100 A	3	4153	0					1	20 A	SPARE	2
3	"	"	"			3862	4653			3	100 A	PANELBOARD 088-1105CA	4
5	"	"	"					4516	3862	"	"	"	6
7	SPARE	20 A	1	0	4016					"	"	"	8
9	PANELBOARD 088-G123AB (NOTE 4)	100 A	3			820	0			1	20 A	SPARE	10
11	"	"	"					100	820	3	100 A	PANELBOARD 088-1105CB (NOTE 4)	12
13	"	"	"	100	100					"	"	"	14
15	SPARE	20 A	1			0	100			"	"	"	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	100					3	70 A	SPD	20
21	SPARE	20 A	1			0	100			"	"	"	22
23	SPARE	20 A	1					0	100	"	"	"	24
25	SPARE	20 A	1	0	100					3	20 A	DPM	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	8569		9635		9498					
			Total Amps:	71		80		79					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	583	125.00%	728	Total Conn. Power Load	27703 VA
Other	3613	100.00%	3613	Total Est. Power Demand	21915 VA
Receptacle	3240	100.00% (NOTE 1)	3240	Total Conn. Amperage	77 A
Lighting	267	125.00%	334	Total Est. Amperage Demand	61 A
Telecom Rack	20000	NOTE 3	14000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. DIGITAL POWER METER (DPM) AND SURGE PROTECTION DEVICE (SPD) TO BE INTEGRAL TO PANEL (FACTORY INSTALLED).
3. TELECOM RACK LOADS ARE DE-RATED FROM 5000VA PER RACK TO 2500VA PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021).
4. REDUNDANT LOADS NOT A/B OVERHEAD RACK RECEPTACLES NOT INCLUDED IN POWER CALCULATIONS AS LOADS DO NOT OPERATE AT FULL LOAD SIMULTANEOUSLY.

PANELBOARD 088-G123AA

Location: BLDG 088, RM G123A
Supply From: 88-DP-TR
Mounting: Surface
Enclosure: Type 1

Line Volts: 208
Neutral Volts: 120
Phases: 3
Wires 4

A.I.C Rating: 22k
Bus Rating: 100A
Main Circuit Breaker: 100AF / 100AT / 3P

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	20 A	3	1667	720					1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"			1667	134			1	20 A	LIGHTING - TR ROOM	4
5	"	"	"					1667	583	1	15 A	FAN COIL UNIT "088-FCU-01-G123A"	6
7	FUTURE RACK RECEPTACLE	20 A	3	1667	0					1	20 A	SPARE	8
9	"	"	"			1667	180			1	20 A	CONVENIENCE RECEPTACLE	10
11	"	"	"					1667	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	115			1	15 A	CONDENSATE PUMP "088-COP-01-G123A"	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	ACCESS CONTROL PANEL / DOOR POWER	20 A	1					500	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	100					3	30 A	SPD	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	4153		3862		4516					
			Total Amps:	35		32		38					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	583	125.00%	728	Total Conn. Power Load	12531 VA
Other	915	100.00%	915	Total Est. Power Demand	12710 VA
Receptacle	900	100.00% (NOTE 1)	900	Total Conn. Amperage	35 A
Lighting	134	125.00%	167	Total Est. Amperage Demand	35 A
Telecom Rack	10000	100.00%	10000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

PANELBOARD 088-G123AB

Location: BLDG 088, RM G123A
Supply From: 88-DP-TR
Mounting: Surface
Enclosure: Type 1

Volts: 208/120V Wye
Phases: 3
Wires 4

A.I.C Rating: 22k
Bus Rating: 100A
Main Circuit Breaker: 100AF / 100AT / 3P

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	20 A	3	1667	720					1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"			1667	0			1	20 A	SPARE	4
5	"	"	"					1667	0	1	20 A	SPARE	6
7	FUTURE RACK RECEPTACLE	20 A	3	1667	0					1	20 A	SPARE	8
9	"	"	"			1667	0			1	20 A	SPARE	10
11	"	"	"					1667	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	SPARE	20 A	1					0	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	100					3	30 A	SPD	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	4153		3433		3433					
			Total Amps:	35		29		29					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	0	125.00%	0	Total Conn. Power Load	11020 VA
Other	300	100.00%	300	Total Est. Power Demand	11020 VA
Receptacle	720	100.00% (NOTE 1)	720	Total Conn. Amperage	31 A
Lighting	0	125.00%	0	Total Est. Amperage Demand	31 A
Telecom Rack	10000	100.00%	10000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

PANELBOARD 088-G1105CA

Location: BLDG 088, RM 1105C
Supply From: 88-DP-TR
Mounting: Surface
Enclosure: Type 1

Volts: 208/120V Wye
Phases: 3
Wires 4

A.I.C Rating: 22k
Bus Rating: 100A
Main Circuit Breaker: 100AF / 100AT / 3P

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	30 A	3	3333	720					1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"			3333	134			1	20 A	LIGHTING - TR ROOM	4
5	"	"	"					3333	583	1	15 A	FAN COIL UNIT "088-FCU-02-1105C"	6
7	SPARE	20 A	1	0	0					1	20 A	SPARE	8
9	SPARE	20 A	1			0	160			1	20 A	SPARE	10
11	SPARE	20 A	1					0	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	115			1	15 A	CONDENSATE PUMP "088-COP-02-1105C"	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	15 A	2			0	0			1	20 A	SPARE	22
23	"	"	"					0	0	1	20 A	SPARE	24
25	ACCESS CONTROL PANEL / DOOR POWER	20 A	1	500	100					"	"	"	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	4653		3862		4016					
			Total Amps:	39		32		33					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	583	125.00%	728	Total Conn. Power Load	12531 VA
Other	915	100.00%	915	Total Est. Power Demand	12710 VA
Receptacle	900	100.00% (NOTE 1)	900	Total Conn. Amperage	35 A
Lighting	134	125.00%	167	Total Est. Amperage Demand	35 A
Telecom Rack	10000	100.00%	10000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

PANELBOARD 088-1105CB

Location: BLDG 088, RM 1105C
Supply From: 88-DP-TR
Mounting: Surface
Enclosure: Type 1

Volts: 208/120V Wye
Phases: 3
Wires 4

A.I.C Rating: 22k
Bus Rating: 100A
Main Circuit Breaker: 100AF / 100AT / 3P

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	30 A	3	3333	720					1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"			3333	0			1	20 A	SPARE	4
5	"	"	"					3333	0	1	20 A	SPARE	6
7	SPARE	20 A	1	0	0					1	20 A	SPARE	8
9	SPARE	20 A	1			0	0			1	20 A	SPARE	10
11	SPARE	20 A	1					0	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	SPARE	20 A	1					0	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	100					3	30 A	SPD	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	4153		3433		3433					
			Total Amps:	35		29		29					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	0	125.00%	0	Total Conn. Power Load	11020 VA
Other	300	100.00%	300	Total Est. Power Demand	11020 VA
Receptacle	720	100.00% (NOTE 1)	720	Total Conn. Amperage	31 A
Lighting	0	125.00%	0	Total Est. Amperage Demand	31 A
Telecom Rack	10000	100.00%	10000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

BLDG 88 - CONDUIT AND WIRE SCHEDULE - VA VT WHITE RIVER JUNCTION EHRM UPGRADES

CONDUIT TAG	SERVICE	ROUTING FROM	ROUTING TO	CONDUIT QTY	CONDUIT SIZE	CONDUCTORS (QTY) & SIZE	CONDUCTORS GROUND SIZE	VOLTAGE DROP	FAULT CURRENT	NOTES
088-P-01	PANELBOARD "088-DP-TR"	PANELBOARD "P1N-101"	PANELBOARD "088-DP-TR"	1	2-1/2"	(3) 4/0 AWG, (1) 300 KCMIL	4 AWG	0.81%	13,579	1
088-P-02	PANELBOARD "088-G123AA"	PANELBOARD "088-DP-TR"	PANELBOARD "088-G123AA"	1	1-1/4"	(3) 3 AWG, (1) 2 AWG	8 AWG	1.22%	6,022	1
088-P-03	PANELBOARD "088-G123AB"	PANELBOARD "088-DP-TR"	PANELBOARD "088-G123AB"	1	1-1/4"	(3) 3 AWG, (1) 2 AWG	8 AWG	1.11%	6,590	1
088-P-04	PANELBOARD "088-G1105CA"	PANELBOARD "088-DP-TR"	PANELBOARD "088-G1105CA"	1	1-1/4"	(3) 3 AWG, (1) 2 AWG	8 AWG	1.09%	7,362	1
088-P-05	PANELBOARD "088-G1105CB"	PANELBOARD "088-DP-TR"	PANELBOARD "088-G1105CB"	1	1-1/4"	(3) 3 AWG, (1) 2 AWG	8 AWG	1.01%	8,084	1
P-TR-1A	TYPICAL TELECOM ROOM DATA RACK POWER F	TYPICAL SOURCE A TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE A RECEPTACLE	1	3/4"	(4) 10 AWG	10 AWG	-	-	-
P-TR-2A	TYPICAL TELECOM ROOM DATA RACK POWER F	TYPICAL SOURCE A TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE A RECEPTACLE	1	3/4"	(4) 10 AWG	10 AWG	-	-	-
P-TR-1B	TYPICAL TELECOM ROOM DATA RACK POWER F	TYPICAL SOURCE B TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE B RECEPTACLE	1	3/4"	(4) 10 AWG	10 AWG	-	-	-
P-TR-2B	TYPICAL TELECOM ROOM DATA RACK POWER F	TYPICAL SOURCE B TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE B RECEPTACLE	1	3/4"	(4) 10 AWG	10 AWG	-	-	-

NOTE(S):
1. NEUTRAL IS UPSIZED.

GENERAL NOTES

1. CONTRACTOR SHALL UPDATE ALL PANEL CIRCUIT DIRECTORIES TO INDICATE IN ANY AND ALL CHANGES; ALL REVISED CIRCUIT DIRECTORIES SHALL BE TYPEWRITTEN.
2. FOR ALL "REVISED" PANEL SCHEDULES REFERENCE ASSOCIATED EQUIPMENT LOAD SCHEDULE FOR OVERALL PANEL LOAD. "REVISED" PANEL SCHEDULES ON THIS SHEET ARE SHOWN FOR ADDED BRANCH CIRCUIT SIZING ONLY.
3. ALL DIGITAL POWER METERS (DPM) AND SURGE PROTECTIVE DEVICES (SPD) ARE INTEGRAL TO ELECTRICAL DISTRIBUTION EQUIPMENT, UNLESS OTHERWISE NOTED.
4. SCHEDULES WITH GREY TEXT INDICATE EXISTING PANELBOARD RATINGS, CIRCUITS, AND LOADS. BLACK TEXT INDICATES REVISED CIRCUITS, PROVIDED EQUIPMENT, AND ADDITIONAL LOAD.

Revisions:	Date:

CONSULTANT/ DISCIPLINE
DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD
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Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 088 - ELECTRICAL SCHEDULES
Phase: 100% CONSTRUCTION DOCUMENTS
Approved:
FULLY SPRINKLERED
Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Project Number: 405-22-700
Building Number: 088
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Drawing Number: 088EP701
Issue Date: 01/16/2026
Checked: NVP/DCW
Drawn: RTS/KDB

PANELBOARD "T58_PB_MDP-T" METERING AND LOAD INFORMATION SCHEDULE				
SYSTEM RATINGS: 400A BUS, 400A MCB, 208/120V, 3PH				
LOAD TYPE	DEMAND AMPS (A)	SYSTEM VOLTAGE	DEMAND VA	NOTES
PEAK DEMAND LOAD	40	208	14519	1
25% OF PEAK DEMAND (NEC 220.87)	-	-	3630	
ADDED DEMAND LOAD				
PANELBOARD "T59-205A"	-	-	11138	2
PANELBOARD "T59-205B"	-	-	1020	2
REMOVED LOAD				
BUILDING T59 - RACK REDUCTION (-2.5kVA EA. RACK @ 1 RACKS TOTAL)	-	-	-2500	3
TOTAL DEMAND VA			27807	
TOTAL AMPERAGE			77	
% TOTAL LOAD			19%	4

NOTES:
1. PEAK DEMAND IS PROVIDED FROM 30-DAY METERING STUDY. PEAK DEMAND RECORDED FROM 06/05/2025.
2. ADDED LOAD CONSISTS OF NEW GENERAL RECEPTACLES, TR RACKS, HVAC AND/OR LIGHTING DEMAND LOADS; REDUNDANT B-SIDE OVERHEAD RECEPTACLE LOAD IS NOT INCLUDED IN POWER CALCULATIONS AS LOADS DO NOT OPERATE AT FULL LOAD SIMULTANEOUSLY. REFERENCE PANEL SCHEDULES FOR EXACT DEMAND LOAD INFORMATION.
3. PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021), TR RACK LOADS ARE DE-RATED FROM 5000VA TO 2500VA AT SUBSTATION LEVEL.
4. TOTAL PERCENT LOADING IS COMPARED TO EQUIPMENT MAIN OVER CURRENT PROTECTIVE DEVICE RATING OF 400A.

PANELBOARD "T59_PB_P-1" METERING AND LOAD INFORMATION SCHEDULE				
SYSTEM RATINGS: 225A BUS, 200A MCB, 208/120V, 3PH				
LOAD TYPE	DEMAND AMPS (A)	SYSTEM VOLTAGE	DEMAND VA	NOTES
PEAK DEMAND LOAD	26	208	9375	1
25% OF PEAK DEMAND (NEC 220.87)	-	-	2344	
ADDED DEMAND LOAD				
PANELBOARD "T59-205A"	-	-	11138	2
PANELBOARD "T59-205B"	-	-	1020	2
REMOVED LOAD				
BUILDING T59 - RACK REDUCTION (-1.5kVA EA. RACK @ 1 RACKS TOTAL)	-	-	-1500	3
TOTAL DEMAND VA			22377	
TOTAL AMPERAGE			62	
% TOTAL LOAD			31%	4

NOTES:
1. PEAK DEMAND IS PROVIDED FROM 30-DAY METERING STUDY. PEAK DEMAND RECORDED FROM 06/05/2025.
2. ADDED LOAD CONSISTS OF NEW GENERAL RECEPTACLES, TR RACKS, HVAC AND/OR LIGHTING DEMAND LOADS; REDUNDANT B-SIDE OVERHEAD RECEPTACLE LOAD IS NOT INCLUDED IN POWER CALCULATIONS AS LOADS DO NOT OPERATE AT FULL LOAD SIMULTANEOUSLY. REFERENCE PANEL SCHEDULES FOR EXACT DEMAND LOAD INFORMATION.
3. PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021), TR RACK LOADS ARE DE-RATED FROM 5000VA TO 3500VA AT DISTRIBUTION LEVEL.
4. TOTAL PERCENT LOADING IS COMPARED TO EQUIPMENT MAIN OVER CURRENT PROTECTIVE DEVICE RATING OF 200A.

PANELBOARD T59_PB_P-1 (REVISED)

Location: BLDG T59, RM 100
Supply From: T58_PB_MDP
Mounting: Surface
Enclosure: Type 1

Line Volts: 208
Neutral Volts: 120
Phases: 3
Wires 4

A.I.C Rating: 42K
Bus Rating: 225A
Main Circuit Breaker: 225AF / 200AT / 200AP / 3P

			VA PER PHASE					
CKT	CIRCUIT DESCRIPTION	Trip	Poles	A	B	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SPACE	-	-	0	0		-	-	SPACE	2
3	SPACE	-	-		0	0	-	-	SPACE	4
5	SPACE	-	-			0	0	-	-	SPACE	6
7	ROOM 204 AC AND OUTLETS	20 A	1	0	0		1	20 A	ROOM 203 OUTLETS, LIGHTS	8
9	ROOM 203 AC AND OUTLETS	20 A	1		0	0	1	20 A	ENTRY OUTLETS	10
11	ROOM 201 LIGHT AND OUTLETS	20 A	1			0	0	1	20 A	ROOM 103 OUTLETS, LIGHTS	12
13	ENTRY AC OUTLETS	20 A	1	0	0		1	20 A	ROOM 101 OUTLETS, LIGHTS	14
15	ROOM 201 AC AND OUTLETS	20 A	1		0	0	1	20 A	ROOM 102 AC, OUTLETS	16
17	ROOM 202 AC AND OUTLETS	20 A	1			0	0	1	20 A	ROOM 103 AC, OUTLETS	18
19	ROOM 102 LIGHTS AND OUTLETS	20 A	1	0	0		1	20 A	ROOM 201 NORTHWEST WALL OUTLET	20
21	ROOM 101 AC AND OUTLETS	20 A	1		0	0	1	20 A	FIRE ALARM PANEL	22
23	RM 204 OUTLETS, LTS, SARWAY ER LTS	20 A	1			0	0	1	20 A	RADIO BOX	24
25	ROOM 202 OUTLETS, LIGHTS	20 A	1	0	0		1	20 A	UNKNOWN LOAD	26
27	UNKNOWN LOAD	20 A	1		0	0	1	20 A	UNKNOWN LOAD	28
29	UNKNOWN LOAD	20 A	1			0	2487	3	100 A	**PANELBOARD T59-205B**	30
31	**PANELBOARD T59-205A**	100 A	3	4231	1767		"	"	"	32
33	"	"	"		2031	1767	"	"	"	34
35	"	"	"			4011	0	-	-	SPACE	36
37	SPACE	-	-	0	0		-	-	SPACE	38
39	SPACE	-	-		0	0	-	-	SPACE	40
41	SPACE	-	-			0	0	-	-	SPACE	42
				Total Load:	5997	3797	6497			
				Total Amps:	50	32	54			

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	3380	125.00%	4225	Total Conn. Power Load	18292 VA
Other	6208	100.00%	6208	Total Est. Power Demand	15658 VA
Receptacle	1620	100.00% (NOTE 1)	1620	Total Conn. Amperage	45 A
Lighting	84	125.00%	105	Total Est. Amperage Demand	43 A
Telecom Rack	5000	NOTE 2	3500		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. TELECOM RACK LOADS ARE DE-RATED FROM 5000VA PER RACK TO 3500VA PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021).
3. REDUNDANT LOADS NOT A/B OVERHEAD RACK RECEPTACLES NOT INCLUDED IN POWER CALCULATIONS AS LOADS DO NOT OPERATE AT FULL LOAD SIMULTANEOUSLY.
4. SCHEDULE SHOWN ONLY FOR BRANCH / FEEDER CIRCUIT SIZING ONLY. FOR OVERALL PANEL LOADING INFORMATION REFERENCE ASSOCIATED LOAD SCHEDULE.

PANELBOARD T59-205A

Location: BLDG T59, RM 205
Supply From: T59-P1
Mounting: Surface
Enclosure: Type 1

Line Volts: 208
Neutral Volts: 120
Phases: 3
Wires 4

A.I.C Rating: 22k
Bus Rating: 100A
Main Circuit Breaker: 100AF / 100AT / 3P

				VA PER PHASE						
CKT	CIRCUIT DESCRIPTION	Trip	Poles	A	B	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	20 A	3	1667 720			1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"		1667 84		1	20 A	LIGHTING - TR ROOM	4
5	"	"	"			1667 1690	2	35 A	CONDENSING UNIT "T59-CU-01-205"	6
7	SPARE	20 A	1	0 1690			"	"	"	8
9	SPARE	20 A	1		0 180		1	20 A	RECEPTACLES - OUTSIDE	10
11	SPARE	20 A	1			0 54	2	15 A	VRF UNIT "T59-VRF-01-205"	12
13	SPARE	20 A	1	0 54			"	"	"	14
15	SPARE	20 A	1		0 0		1	20 A	SPARE	16
17	SPARE	20 A	1			0 0	1	20 A	SPARE	18
19	SPARE	20 A	1	0 0			1	20 A	SPARE	20
21	SPARE	20 A	1		0 0		1	20 A	SPARE	22
23	ACCESS CONTROL PANEL / DOOR POWER	20 A	1			500 0	1	20 A	SPARE	24
25	SPARE	20 A	1	0 100			3	30 A	SPD	26
27	SPARE	20 A	1		0 100		"	"	"	28
29	SPARE	20 A	1			0 100	"	"	"	30
			Total Load:	4231	2031	4011				
			Total Amps:	35	17	33				

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	3380	125.00%	4225	Total Conn. Power Load	10272 VA
Other	908	100.00%	908	Total Est. Power Demand	11138 VA
Receptacle	900	100.00% (NOTE 1)	900	Total Conn. Amperage	29 A
Lighting	84	125.00%	105	Total Est. Amperage Demand	31 A
Telecom Rack	5000	100.00%	5000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

PANELBOARD T59-205B

Location: BLDG T59, RM 205
Supply From: T59-P1
Mounting: Surface
Enclosure: Type 1

Line Volts: 208
Neutral Volts: 120
Phases: 3
Wires 4

A.I.C Rating: 22k
Bus Rating: 100A
Main Circuit Breaker: 100AF / 100AT / 3P

				VA PER PHASE						
CKT	CIRCUIT DESCRIPTION	Trip	Poles	A	B	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	20 A	3	1667 720			1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"		1667 0		1	20 A	SPARE	4
5	"	"	"			1667 0	1	20 A	SPARE	6
7	SPARE	20 A	1	0 0			1	20 A	SPARE	8
9	SPARE	20 A	1		0 0		1	20 A	SPARE	10
11	SPARE	20 A	1			0 0	1	20 A	SPARE	12
13	SPARE	20 A	1	0 0			1	20 A	SPARE	14
15	SPARE	20 A	1		0 0		1	20 A	SPARE	16
17	SPARE	20 A	1			0 0	1	20 A	SPARE	18
19	SPARE	20 A	1	0 0			1	20 A	SPARE	20
21	SPARE	20 A	1		0 0		1	20 A	SPARE	22
23	SPARE	20 A	1			0 0	1	20 A	SPARE	24
25	SPARE	20 A	1	0 100			3	30 A	SPD	26
27	SPARE	20 A	1		0 100		"	"	"	28
29	SPARE	20 A	1			0 100	"	"	"	30
			Total Load:	2487	1767	1767				
			Total Amps:	21	15	15				

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	0	125.00%	0	Total Conn. Power Load	6020 VA
Other	300	100.00%	300	Total Est. Power Demand	6020 VA
Receptacle	720	100.00%	720	Total Conn. Amperage	17 A
Lighting	0	125.00%	0	Total Est. Amperage Demand	17 A
Telecom Rack	5000	100.00%	5000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

GENERAL NOTES

1. CONTRACTOR SHALL UPDATE ALL PANEL CIRCUIT DIRECTORIES TO INDICATE IN ANY AND ALL CHANGES; ALL REVISED CIRCUIT DIRECTORIES SHALL BE TYPEWRITTEN.
2. FOR ALL "REVISED" PANEL SCHEDULES REFERENCE "METERING AND LOAD INFORMATION SCHEDULE" LOCATED ON SHEET EP701 FOR OVERALL PANEL LOAD. "REVISED" PANEL SCHEDULES ON THIS SHEET ARE SHOWN FOR ADDED BRANCH CIRCUIT SIZING ONLY.
3. ALL DIGITAL POWER METERS (DPM) AND SURGE PROTECTIVE DEVICES (SPD) ARE INTEGRAL TO ELECTRICAL DISTRIBUTION EQUIPMENT, UNLESS OTHERWISE NOTED.
4. EXISTING, REVISED, OR REPLACEMENT SCHEDULES WITH GREY TEXT INDICATE EXISTING PANELBOARD RATINGS, CIRCUITS, AND LOADS. BLACK TEXT INDICATES REVISED CIRCUITS, PROVIDED EQUIPMENT, AND ADDITIONAL LOAD.

BLDG T59 - CONDUIT AND WIRE SCHEDULE - VA VT WHITE RIVER JUNCTION EHRM UPGRADES										
CONDUIT TAG	SERVICE	ROUTING		CONDUIT		CONDUCTORS		VOLTAGE DROP	FAULT CURRENT	NOTES
		FROM	TO	QTY	SIZE	(QTY) & SIZE	GROUND SIZE			
T59-P-01	PANELBOARD "T59-205A"	PANELBOARD "T59_PB_P-1"	PANELBOARD "T59-205A"	1	1-1/4"	(3) 3 AWG, (1) 2 AWG	8 AWG	0.70%	5,606	1
T59-P-02	PANELBOARD "T59-205B"	PANELBOARD "T59_PB_P-1"	PANELBOARD "T59-205B"	1	1-1/4"	(3) 3 AWG, (1) 2 AWG	8 AWG	0.56%	5,446	1
T59-P-03	CONDENSING UNIT "T59-CU-01-205"	PANELBOARD "T59-205A"	CONDENSING UNIT "T59-CU-01-205" VIA DISCONNECT	1	3/4"	(2) 8 AWG	10 AWG	1.20%	5,606	-
P-TR-1A	TYPICAL TELECOM ROOM DATA RACK POWER FEED (1-RACK), SIDE A	TYPICAL SOURCE A TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE A RECEPTACLE	1	3/4"	(4) 10 AWG	10 AWG	-	-	-
P-TR-1B	TYPICAL TELECOM ROOM DATA RACK POWER FEED (1-RACK), SIDE B	TYPICAL SOURCE B TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE B RECEPTACLE	1	3/4"	(4) 10 AWG	10 AWG	-	-	-
NOTE(S):										
1. NEUTRAL IS UPSIZED.										

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
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STAMP

LOUIS R. LITZKA — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG T59 - ELECTRICAL SCHEDULES

Phase: 100% CONSTRUCTION DOCUMENTS

Approved:

FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER

Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009

Issue Date: 01/16/2026 | Checked: NVP/DCW | Drawn: RTS/KDB

Project Number: 405-22-700

Building Number: T59

Drawing Number: T59EP701

PANELBOARD "T62_PB_P-1" METERING AND LOAD INFORMATION SCHEDULE				
SYSTEM RATINGS: 200A BUS, 200A MCB, 208/120V, 3PH				
LOAD TYPE	DEMAND AMPS (A)	SYSTEM VOLTAGE	DEMAND VA	NOTES
PEAK DEMAND LOAD	33	208	11766	1
25% OF PEAK DEMAND (NEC 220.87)	-	-	2942	
ADDED DEMAND LOAD				
PANELBOARD "T62_PB_P-1"	-	-	7200	2
TOTAL DEMAND VA			21908	
TOTAL AMPERAGE			61	
% TOTAL LOAD			30%	3

NOTES:
1. PEAK DEMAND IS PROVIDED FROM 30-DAY METERING STUDY. PEAK DEMAND RECORDED FROM 05/31/2025.
2. ADDED LOAD CONSISTS OF NEW GENERAL RECEPTACLES LOADS, TR RACKS, AND HVAC DEMAND LOADS; REDUNDANT B-SIDE OVERHEAD RECEPTACLE LOAD IS NOT INCLUDED IN POWER CALCULATIONS AS LOADS DO NOT OPERATE AT FULL LOAD SIMULTANEOUSLY. REFERENCE PANEL SCHEDULES FOR EXACT DEMAND LOAD INFORMATION.
3. TOTAL PERCENT LOADING IS COMPARED TO EQUIPMENT MAIN OVER CURRENT PROTECTIVE DEVICE RATING OF 200A.

PANELBOARD T62_PB_P-1 (REVISED)

Location: BLDG T62, RM MAIN ENTRANCE
Supply From: 09_PB_BASEMENT
Mounting: Surface
Enclosure: Type 1
Line Volts: 208
Neutral Volts: 120
Phases: 3
Wires: 4
A.I.C Rating: 22K
Bus Rating: 200A
Main Circuit Breaker: 225AF / 200AT / 200AP / 3P

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A		VA PER PHASE B		VA PER PHASE C		Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	TE RECEPTACLE 'A' SIDE	30 A	1	1440	720					1	20 A	RM - B100 RECEPTACLES	2
3	TE RECEPTACLE 'B' SIDE	30 A	1			1440	0			1		SPACE	4
5	ACCESS CONTROL PANEL / DOOR POWER	20 A	1					680	180	1	20 A	CONVENIENCE RECEPTACLE	6
7	ENTRY B	20 A	1	0	0					1	20 A	201 B	8
9	ENTRY AC	20 A	1			0	0			1	20 A	201 AV	10
11	REFRIGERATOR	20 A	1					0	0	1	20 A	201 SPARE	12
13	101 B	20 A	1	0	0					1	20 A	202 B	14
15	101 AC	20 A	1			0	0			1	20 A	202 AC	16
17	102 B	20 A	1					0	0	1	20 A	202 SPARE	18
19	102 AC	20 A	1	0	0					1	20 A	203 B	20
21	102 COPIER	20 A	1			0	0			1	20 A	203 AC	22
23	103 AB	20 A	1					0	0	1	20 A	203 SPARE	24
25	103 AC	20 A	1	0	0					1	20 A	204 B	26
27	BASEMENT OUTLETS A	20 A	1			0	0			1	20 A	204 AC	28
29	BASEMENT OUTLETS B	20 A	1					0	0	1	20 A	204 SPARE	30
31	BASEMENT LIGHTS A	20 A	1	0	0					1	20 A	BASEMENT HEATER 1	32
33	BASEMENT LIGHTS B	20 A	1			0	0			1	20 A	BASEMENT HEATER 2	34
35	DEHUMIDIFIER	20 A	1					0	0	2	20 A	UNKNOWN LOAD	36
37	BASEMENT PRINTER	20 A	1	0	0					"	"	"	38
39	CONDENSING UNIT "T62-CU-01-B100"	30 A	2			2265	54			2	15 A	VRF UNIT "T62-VRF-01-B100"	40
41	"	"	"					2265	54	"	"	"	42
			Total Load:	2160		3699		3119					
			Total Amps:	18		31		26					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	4410	125.00%	5512	Total Conn. Power Load:	8978 VA
Other	788	100.00%	788	Total Est. Power Demand:	7200 VA
Receptacle	900	100.00% (NOTE 1)	900	Total Conn. Amperage:	25 A
Lighting	0	125.00%	0	Total Est. Amperage Demand:	20 A
Telecom Rack	2880	100.00%	0		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. REDUNDANT LOADS NOT A/B OVERHEAD RACK RECEPTACLES NOT INCLUDED IN POWER CALCULATIONS AS LOADS DO NOT OPERATE AT FULL LOAD SIMULTANEOUSLY.
3. SCHEDULE SHOWN ONLY FOR BRANCH / FEEDER CIRCUIT SIZING ONLY. FOR OVERALL PANEL LOADING INFORMATION REFERENCE ASSOCIATED LOAD SCHEDULE.

GENERAL NOTES

1. CONTRACTOR SHALL UPDATE ALL PANEL CIRCUIT DIRECTORIES TO INDICATE IN ANY AND ALL CHANGES; ALL REVISED CIRCUIT DIRECTORIES SHALL BE TYPEWRITTEN.
2. FOR ALL "REVISED" PANEL SCHEDULES REFERENCE ASSOCIATED EQUIPMENT LOAD SCHEDULE FOR OVERALL PANEL LOAD. "REVISED" PANEL SCHEDULES ON THIS SHEET ARE SHOWN FOR ADDED BRANCH CIRCUIT SIZING ONLY.
3. ALL DIGITAL POWER METERS (DPM) AND SURGE PROTECTIVE DEVICES (SPD) ARE INTEGRAL TO ELECTRICAL DISTRIBUTION EQUIPMENT, UNLESS OTHERWISE NOTED.
4. SCHEDULES WITH GREY TEXT INDICATE EXISTING PANELBOARD RATINGS, CIRCUITS, AND LOADS. BLACK TEXT INDICATES REVISED CIRCUITS, PROVIDED EQUIPMENT, AND ADDITIONAL LOAD.

BLDG T62- CONDUIT AND WIRE SCHEDULE - VA VT WHITE RIVER JUNCTION EHRM UPGRADES										
CONDUIT TAG	SERVICE	ROUTING		CONDUIT		CONDUCTORS		VOLTAGE DROP	FAULT CURRENT	NOTES
		FROM	TO	QTY	SIZE	(QTY) & SIZE	GROUND SIZE			
T62-P-01	TE RECEPTACLE 'A' SIDE	PANELBOARD "T62_PB-1"	TE RECEPTACLE 'A' SIDE	1	3/4"	(2) 10 AWG	10 AWG	2.72%	948	-
T62-P-02	TE RECEPTACLE 'B' SIDE	PANELBOARD "T62_PB-1"	TE RECEPTACLE 'B' SIDE	1	3/4"	(2) 10 AWG	10 AWG	2.72%	948	-
T62-P-03	CONDENSING UNIT "T62-CU-01-B100"	PANELBOARD "T62_PB-1"	CONDENSING UNIT "T62-CU-01-B100" VIA DISCONNECT	1	3/4"	(2) 8 AWG	8 AWG	1.53%	8,709	-
NOTE(S):										

Revisions:	Date:

CONSULTANT/ DISCIPLINE
DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD
A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
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STAMP
LOUIS R. LITZAU — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

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

Drawing Title: BLDG T62 - ELECTRICAL SCHEDULES
Phase: 100% CONSTRUCTION DOCUMENTS
Approved:
FULLY SPRINKLERED
Project Title: EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Location: VA VT WHITE RIVER JUNCTION, 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
Project Number: 405-22-700
Building Number: T62
Drawing Number: T62EP701
Issue Date: 01/16/2026
Checked: NVP/DCW
Drawn: RTS/KDB

TAP "00_SP_T-103" METERING AND LOAD INFORMATION SCHEDULE				
SYSTEM RATINGS: 1380A BUS, 208/120V, 3PH				
LOAD TYPE	DEMAND AMPS (A)	SYSTEM VOLTAGE	DEMAND VA	NOTES
PEAK DEMAND LOAD	543	208	195769	1
25% OF PEAK DEMAND (NEC 220.87)	-	-	48942	
ADDED DEMAND LOAD				
PANELBOARD "T63-MDP"	-	-	600	
PANELBOARD "T63-B01A"	-	-	12425	2
PANELBOARD "T63-B01B"	-	-	1020	2
ATS "88_AT_88-ATS-1"	-	-	-	
PANELBOARD "88_PB_P1N_101"	-	-	-	
PANELBOARD "088-DP-TR"	-	-	600	
PANELBOARD "088-088-G123AA"	-	-	12595	2
PANELBOARD "088-088-G123AB"	-	-	1020	2
PANELBOARD "088-G1105CA"	-	-	12595	2
PANELBOARD "088-G1105CB"	-	-	1320	2
REMOVED LOAD				
BUILDING T63 - RACK REDUCTION (-2.5kVA EA. RACK @ 1 RACKS TOTAL)	-	-	-2500	3
BUILDING T88 - RACK REDUCTION (-2.5kVA EA. RACK @ 4 RACKS TOTAL)	-	-	-10000	3
		TOTAL DEMAND VA	274387	
		TOTAL AMPERAGE	762	
		% TOTAL LOAD	55%	4

NOTES:
1. PEAK DEMAND IS PROVIDED FROM 30-DAY METERING STUDY. PEAK DEMAND RECORDED FROM 05/31/2025.
2. ADDED LOAD CONSISTS OF NEW GENERAL RECEPTACLES LOADS; REDUNDANT B-SIDE OVERHEAD RECEPTACLE LOAD IS NOT INCLUDED IN POWER CALCULATIONS AS LOADS DO NOT OPERATE AT FULL LOAD SIMULTANEOUSLY. REFERENCE PANEL SCHEDULES FOR EXACT DEMAND LOAD INFORMATION.
3. PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021), TR RACK LOADS ARE DE-RATED FROM 5000VA TO 3500VA AT DISTRIBUTION LEVEL.
4. TOTAL PERCENT LOADING IS COMPARED TO EQUIPMENT SYSTEM RATING OF 1380A.

PANELBOARD T63-MDP

Location: BLDG T63, RM 101
Supply From: 00_SP_T-103 (SEC)
Mounting: Surface
Enclosure: Type 1

Line Volts: 208
Neutral Volts: 120
Phases: 3
Wires 4

A.I.C Rating: 42K
Bus Rating: 225A
Main Circuit Breaker: 225AF / 225AT / 3P / I.S.I

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	PANELBOARD T63-B01A	100 A	3	4733	2487					3	100 A	PANELBOARD T63-B01B (NOTE 4)	2
3	"	"	"			2031	1767			"	"		4
5	"	"	"					4513	1767	"	"		6
7	T63_PB_P-1 (NOTE 5)	200 A	3	0	0					1	20 A	SPARE	8
9	"	"	"			0	0			1	20 A	SPARE	10
11	"	"	"					0	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	100					3	70 A	SPD	20
21	SPARE	20 A	1			0	100			"	"	"	22
23	SPARE	20 A	1					0	100	"	"	"	24
25	SPARE	20 A	1	0	100					3	20 A	DPM	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	7420		8997		6480					
			Total Amps:	62		33		54					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	4410	125.00%	5512	Total Conn. Power Load:	17897 VA
Other	6783	100.00%	6783	Total Est. Power Demand:	17520 VA
Receptacle	1620	100.00% (NOTE 1)	1620	Total Conn. Amperage:	50 A
Lighting	84	125.00%	105	Total Est. Amperage Demand:	49 A
Telecom Rack	5000	(NOTE 3)	3500		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. DIGITAL POWER METER (DPM) AND SURGE PROTECTION DEVICE (SPD) TO BE INTEGRAL TO PANEL (FACTORY INSTALLED).
3. TELECOM RACK LOADS ARE DE-RATED FROM 5000VA PER RACK TO 3500VA PER VA WHITE PAPER "POWER CAPACITY PLANNING FOR TRS" (JULY 2021).
4. REDUNDANT LOADS NOT A/B OVERHEAD RACK RECEPTACLES NOT INCLUDED IN POWER CALCULATIONS AS LOADS DO NOT OPERATE AT FULL LOAD SIMULTANEOUSLY.
5. SUBFEED CIRCUIT BREAKER.

PANELBOARD T63-B01A

Location: BLDG T63, RM B01
Supply From: T63-MDP
Mounting: Surface
Enclosure: Type 1

Line Volts: 208
Neutral Volts: 120
Phases: 3
Wires 4

A.I.C Rating: 22k
Bus Rating: 100A
Main Circuit Breaker: 100AF / 100AT / 3P

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	20 A	3	1667	720					1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"			1667	84			1	20 A	LIGHTING - TR ROOM	4
5	"	"	"					1667	2205	2	30 A	CONDENSING UNIT "T63-CU-01-B01"	6
7	SPARE	20 A	1	0	2205					"	"	"	8
9	SPARE	20 A	1			0	180			1	20 A	CONVENIENCE RECEPTACLE	10
11	SPARE	20 A	1					0	42	1	15 A	VRF UNIT "T63-VRF-01-B01"	12
13	SPARE	20 A	1	0	42					"	"	"	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	ACCESS CONTROL PANEL / DOOR POWER	20 A	1					500	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	100					3	30 A	SPD	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	4733		2031		4513					
			Total Amps:	39		17		38					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	4410	125.00%	5512	Total Conn. Power Load:	11277 VA
Other	883	100.00%	883	Total Est. Power Demand:	12400 VA
Receptacle	900	100.00% (NOTE 1)	900	Total Conns. Amperage:	31 A
Lighting	84	125.00%	105	Total Est. Amperage Demand:	34 A
Telecom Rack	5000	100.00%	5000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

PANELBOARD T63-B01B

Location: BLDG T63, RM B01
Supply From: T63-MDP
Mounting: Surface
Enclosure: Type 1

Line Volts: 208
Neutral Volts: 120
Phases: 3
Wires 4

A.I.C Rating: 22k
Bus Rating: 100A
Main Circuit Breaker: 100AF / 100AT / 3P

CKT	CIRCUIT DESCRIPTION	Trip	Poles	VA PER PHASE A	A	B	B	C	C	Poles	Trip	CIRCUIT DESCRIPTION	CKT
1	SERVER RACK RECEPTACLE	20 A	3	1667	720					1	20 A	RECEPTACLES - TR ROOM	2
3	"	"	"			1667	0			1	20 A	SPARE	4
5	"	"	"					1667	0	1	20 A	SPARE	6
7	SPARE	20 A	1	0	0					1	20 A	SPARE	8
9	SPARE	20 A	1			0	0			1	20 A	SPARE	10
11	SPARE	20 A	1					0	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	SPARE	20 A	1					0	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	100					3	30 A	SPD	26
27	SPARE	20 A	1			0	100			"	"	"	28
29	SPARE	20 A	1					0	100	"	"	"	30
			Total Load:	2487		1767		1767					
			Total Amps:	21		15		15					

LOAD TYPE	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals	
Largest Motor	0	125.00%	0	Total Conn. Power Load:	6020 VA
Other	300	100.00%	300	Total Est. Power Demand:	6020 VA
Receptacle	720	100.00%	720	Total Conns. Amperage:	17 A
Lighting	0	125.00%	0	Total Est. Amperage Demand:	17 A
Telecom Rack	5000	100.00%	5000		

Notes:
1. RECEPTACLE DEMAND FACTOR IS MODIFIED AFTER 10 kVA PER THE NEC.
2. SURGE PROTECTION DEVICE (SPD) SHALL BE INTEGRAL TO PANEL (FACTORY INSTALLED).

GENERAL NOTES

1. CONTRACTOR SHALL UPDATE ALL PANEL CIRCUIT DIRECTORIES TO INDICATE IN ANY AND ALL CHANGES; ALL REVISED CIRCUIT DIRECTORIES SHALL BE TYPEWRITTEN.
2. FOR ALL "REVISED" PANEL SCHEDULES REFERENCE "METERING AND LOAD INFORMATION SCHEDULE" LOCATED ON SHEET EP701 FOR OVERALL PANEL LOAD. "REVISED" PANEL SCHEDULES ON THIS SHEET ARE SHOWN FOR ADDED BRANCH CIRCUIT SIZING ONLY.
3. ALL DIGITAL POWER METERS (DPM) AND SURGE PROTECTIVE DEVICES (SPD) ARE INTEGRAL TO ELECTRICAL DISTRIBUTION EQUIPMENT, UNLESS OTHERWISE NOTED.
4. EXISTING, REVISED, OR REPLACEMENT SCHEDULES WITH GREY TEXT INDICATE EXISTING PANELBOARD RATINGS, CIRCUITS, AND LOADS. BLACK TEXT INDICATES REVISED CIRCUITS, PROVIDED EQUIPMENT, AND ADDITIONAL LOAD.

BLDG T63 - CONDUIT AND WIRE SCHEDULE - VA VT WHITE RIVER JUNCTION EHRM UPGRADES										
CONDUIT TAG	SERVICE	ROUTING		CONDUIT		CONDUCTORS		VOLTAGE DROP	FAULT CURRENT	NOTES
		FROM	TO	QTY	SIZE	(QTY) & SIZE	GROUND SIZE			
T63-P-01	PANELBOARD "T63-B01A"	PANELBOARD "T63-MDP"	PANELBOARD "T63-B01A"	1	2-1/2"	(3) 1/0 AWG, (1) 2/0 AWG	4 AWG	2.32%	6,027	1
T63-P-02	PANELBOARD "T63-B01B"	PANELBOARD "T63-MDP"	PANELBOARD "T63-B01B"	1	2-1/2"	(3) 1/0 AWG, (1) 2/0 AWG	4 AWG	2.25%	5,861	1
T63-P-03	PANELBOARD "T63_PB_P-1"	PANELBOARD "T63-MDP"	PANELBOARD "T63_PB_P-1"	1	2-1/2"	(4) 4/0 AWG	3 AWG	2.32%	7,282	-
T63-P-04	CONDENSING UNIT "T63-CU-01-B01"	PANELBOARD "T63-B01A"	CONDENSING UNIT "T63-CU-01-B01" VIA DISCONNECT	1	3/4"	(2) 8 AWG	8 AWG	3.09%	6,027	-
P-TR-1A	TYPICAL TELECOM ROOM DATA RACK POWER FEED (1-RACK), SIDE A	TYPICAL SOURCE A TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE A RECEPTACLE	1	3/4"	(4) 10 AWG	10 AWG	-	-	-
P-TR-1B	TYPICAL TELECOM ROOM DATA RACK POWER FEED (1-RACK), SIDE B	TYPICAL SOURCE B TR PANELBOARD	TYPICAL OVERHEAD TR RACK SOURCE B RECEPTACLE	1	3/4"	(4) 10 AWG	10 AWG	-	-	-
NOTE(S):										
1. NEUTRAL IS UPSIZED.										

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE:

ARCHITECT/ ENGINEER OF RECORD

A/E:
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LOUIS R. LITTLE — STATE OF WASHINGTON — 55681 — 1-16-26 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	BLDG T63 - ELECTRICAL SCHEDULES
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - WHITE RIVER
Project Number	405-22-700
Building Number	T63
Location	VA VT WHITE RIVER JUNCTION 163 VETERANS DR, WHITE RIVER JUNCTION, VT 05009
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