BLACK HILLS VA HEALTHCARE SYSTEM
ELECTRONIC HEALTH RECORD MODERNIZATION (EHRM)
INFRASTRUCTURE UPGRADES - FORT MEADE, SD
PROJECT NO.: 568-21-701
CONTRACT NO.: 36C77621C0078
100% CONSTRUCTION DOCUMENTS SUBMITTAL

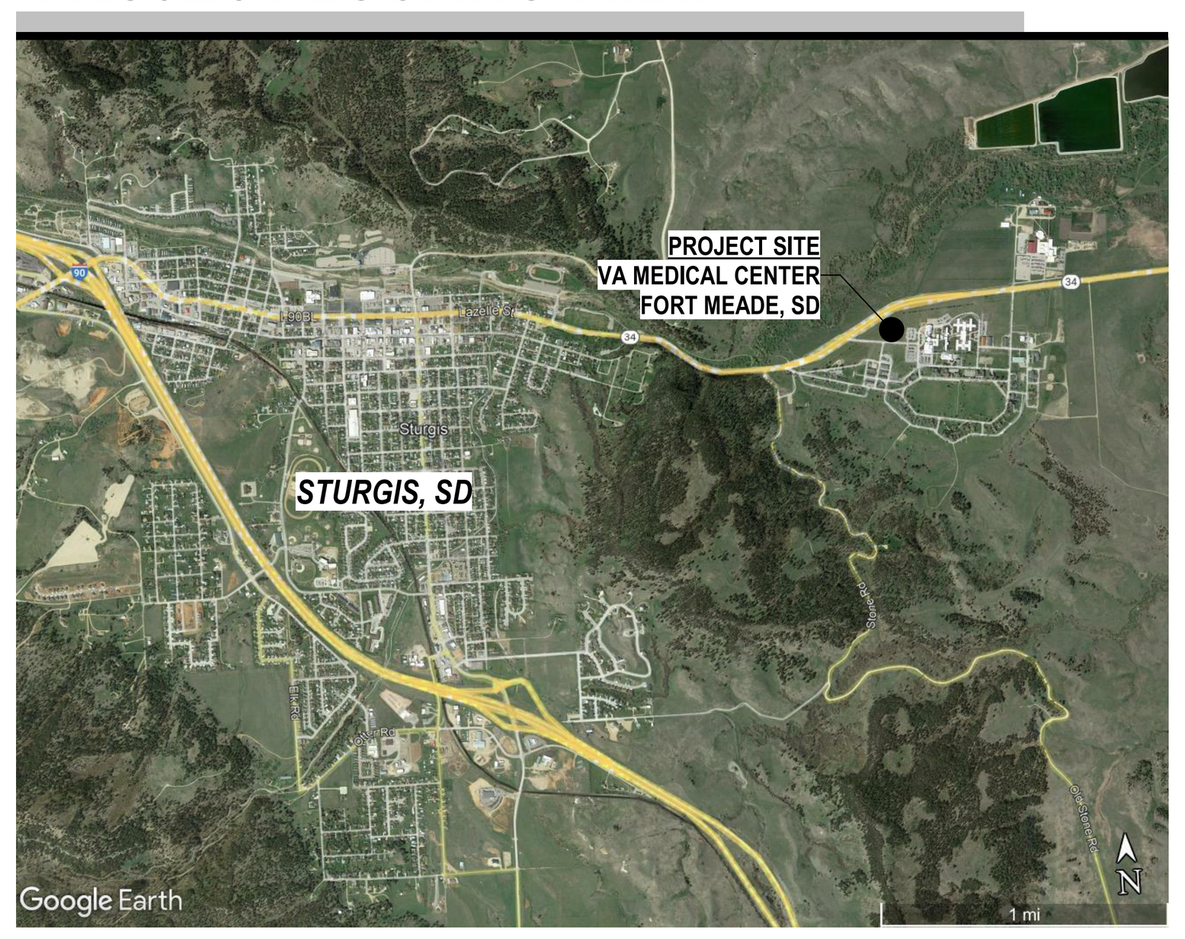
BLACK HILLS VA HEALTHCARE SYSTEM
BLACK HILLS NETWORK ##
113 COMANCHE ROAD | FORT MEADE, SD 57741

VOLUME 3

- ELECTRICAL
- FIRE PROTECTION

THE A/E HAS PARTITIONED THE DRAWINGS INTO SECTIONS. THE PRIME CONTRACTOR IS TO PROVIDE COORDINATION AMONG THE TRADES AND DRAWING SECTIONS TO ENSURE ALL MATERIALS, LABOR, EQUIPMENT, AND OTHER SERVICES ARE PROVIDED TO FULFILL THE ENTIRE CONTRACT. FOR EXAMPLE, DOOR HARDWARE REQUIRES ELECTRICAL, ARCHITECTURAL, AND FIRE PROTECTION SECTION REVIEW. PROVIDE A WORKING OUTCOME FOR ALL MULTI-DISCIPLINARY DEFINABLE FEATURES OF WORK.

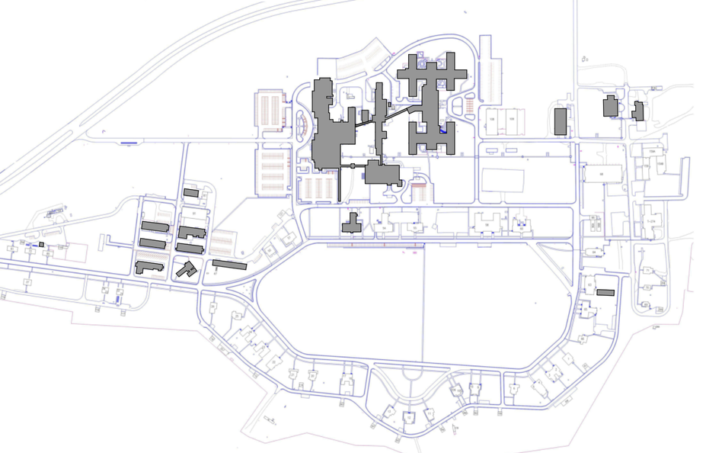
PROJECT LOCATION MAP



PROJECT KEY PLAN

BLACK HILLS VA HEALTHCARE SYSTEM
BLACK HILLS NETWORK ##
113 COMANCHE ROAD | FORT MEADE, SD 57741

NORTH



GENERAL PROJECT NOTES

1. THE CONTRACTOR SHALL CAREFULLY EXAMINE THE DRAWINGS AND SPECIFICATION AND RELATED CONTRACT DOCUMENTS, VISIT SITE OF WORK, AND RESEARCH ALL EXISTING CONDITIONS, FACILITIES, RESTRICTIONS AND OTHER MATTERS WHICH CAN AFFECT THE WORK, IN TIMELINE, QUALITY OR COST, THEREOF; FAILURE OR OMISSION OF ANY CONTRACTOR TO VISIT THE SITE AND ACQUAINT THEMSELVES WITH THE EXISTING CONDITIONS, SHALL IN NO WAY RELIEVE THEM FROM ANY OBLIGATION WITH RESPECT TO THEIR CONTRACT AND NO EXTRA TIME OR COMPENSATION WILL BE ALLOWED BY REASON OF ANY THING OR MATTER CONCERNING WHICH THE CONTRACTOR COULD HAVE FULLY INFORMED THEMSELVES PRIOR TO BIDDING. GENERAL CONTRACTOR SHALL COORDINATE ALL ASPECTS OF THE BUILDING CONSTRUCTION.
2. THE CONTRACTOR SHALL NOT CONSIDER CONSTRUCTION NOTES TO BE ALL-INCLUSIVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSPECT AND ASSESS EACH AREA AND TO FULFILL THE INTENT OF THE CONTRACT DOCUMENTS. CONTRACTOR SHALL COORDINATE ARCHITECTURAL CONSTRUCTION DRAWING AND NOTES WITH CIVIL, STRUCTURAL AND MECHANICAL, ELECTRICAL & PLUMBING NOTES AND DRAWINGS.
3. THE DRAWINGS SHALL BE WORKED IN CONJUNCTION WITH THE TECHNICAL SPECIFICATIONS AND CONDITIONS OF THE PROJECT INCLUDED IN THE PROJECT MANUAL WHICH FORM A PART OF THE CONTRACT DOCUMENTS AND CONTAINS ADDITIONAL INFORMATION REQUIRED TO CONSTRUCT THE WORK OF THIS CONTRACT. IN THE EVENT OF A CONFLICT BETWEEN THE DRAWINGS AND THE SPECIFICATION NOTIFY THE COR FOR CLARIFICATION SEVEN DAYS BEFORE BEGINNING WORK ON THE AFFECTED ACTIVITIES.
4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO THE START OF THE WORK. NOTIFY THE COR OF ANY SIGNIFICANT CHANGES IN DIMENSIONS OR CONDITIONS.
5. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, TOOLS, EQUIPMENT AND NECESSARY FACILITIES, AND PERFORM ALL LABOR AND SERVICES OF EVERY DESCRIPTION AS REQUIRED TO COMPLETE THE SCOPE OF WORK DEFINED ON THE DRAWINGS AND SPECIFICATIONS WITHIN THE AGREED TIMELINES.
6. THE CONTRACTOR SHALL ARRANGE FOR AND OBTAIN ALL VA ISSUED PERMITS (HOTWORK, ICRA, WEEKENDS, HOLIDAYS, SHUTDOWN, ETC), CERTIFICATES, INSPECTIONS, DEPARTMENT APPROVAL, ETC. FOR WORK PERFORMED UNDER THIS CONTRACT. PROVIDE COPIES OF ALL REQUIRED PERMITS, CERTIFICATES, INSPECTIONS AND AGENCY APPROVALS TO THE COR PRIOR TO THE COMMENCEMENT OF THE SCOPE.
7. FABRICATE AND INSTALL ALL WORK IN STRICT ACCORDANCE WITH THE SPECIFICATIONS, ALL APPLICABLE STATE AND LOCAL CODES, AND THE GENERAL AND SUPPLEMENTARY CONDITIONS OF THE CONTRACT.
8. U.L. ASSEMBLIES DESCRIBED ARE FOR REFERENCE ONLY. THE GENERAL CONTRACTOR SHALL COORDINATE AND VERIFY THE INSTALLATION OF THE DESCRIBED SYSTEM(S) .
9. ALL CONTRACTORS AND SUBCONTRACTORS SHALL BE SOLELY RESPONSIBLE FOR THE PROPER PERFORMANCE OF THEIR WORK, COORDINATING WITH OTHER TRADES, MEANS AND METHODS OF CONSTRUCTION, SAFETY AND SECURITY ON SITE.
10. CUTTING AND PATCHING SHALL BE PERFORMED BY EACH TRADE AS NECESSARY FOR THE PERFORMANCE AND INSTALLATION OF THE WORK. CUTTING AND PATCHING SHALL BE PERFORMED IN A WORKMANLIKE MANNER CONSISTENT WITH INDUSTRY STANDARDS FOR FINISHES AND SUBSTRATES AFFECTED.
11. THE CONTRACTOR SHALL PROTECT THE FACILITY FROM WEATHER AND MAINTAIN SECURITY DURING ALL CONSTRUCTION WORK.
12. PROTECT EXISTING PROPERTY DURING CONSTRUCTION. REPAIR OR REPLACE AT THE DISCRETION AND TO THE SATISFACTION OF THE C.O.R., WITHOUT ADDITIONAL CHARGE TO THE OWNER, ANY EXISTING WORK DAMAGED DURING THE COURSE OF CONSTRUCTION.
13. THE WORK SHALL BE COORDINATED IN GOOD FAITH WITH THE COR AND ALL GOVERNMENT EMPLOYEES 14 DAYS IN ADVANCE OF BEGINNING EACH CONSTRUCTION ACTIVITY.
14. UNLESS ITEMS OF MATERIAL, EQUIPMENT OR WORK ARE SPECIFICALLY NOTED TO BE PROVIDED OR FURNISHED BY OTHERS, THEY SHALL BE PROVIDED UNDER THIS CONTRACT BY THE CONTRACTOR.
15. ALL WORK SHALL BE PERFORMED BY SKILLED WORKERS IN A WORKMANLIKE AND PROFESSIONAL MANNER CONSISTENT WITH INDUSTRY STANDARDS AND/OR AS DIRECTED BY THE C.O.R..
16. THE CONTRACTOR SHALL LEAVE THE SITE AND ALL BUILDINGS AND STRUCTURES IN PROPER WORKING ORDER AND SHALL, WITHOUT ADDITIONAL CHARGE, REPLACE ANY WORK, MATERIALS, OR EQUIPMENT FURNISHED AND INSTALLED UNDER THE CONTRACT WHICH DEVELOPS DEFECTS, DUE TO A POSSIBLE WORKMANSHIP ISSUE, WITHIN ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER. THIS IS NOT TO LIMIT OR EXCLUDE ANY OTHER WARRANTY OR WARRANTY PERIOD OTHERWISE DESCRIBED.
17. CONTRACTOR SHALL SCHEDULE, COORDINATE, AND FACILITATE ALL POWER, WATER, OR TELECOMMUNICATIONS OUTAGES AND SHUTDOWNS. ALL OUTAGES AND SHUTDOWNS MUST BE SCHEDULED WITH THE COR ONE (1) WEEK PRIOR TO OUTAGE.
18. FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING BUT NOT LIMITED TO REGULATED MATERIALS ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, EQUIPMENT, AND ALL OTHER EXISTING SYSTEMS. MAKE NECESSARY PROVISIONS TO MAINTAIN THE INTEGRITY OF SAID SYSTEMS PRIOR TO THE COMMENCEMENT OF DEMOLITION, IF ANY. SEE MECHANICAL, ELECTRICAL, TELECOMMUNICATIONS, AND ARCHITECTURAL DRAWINGS FOR ANY SYSTEM OR PORTIONS THEREOF TO BE REMOVED, RELOCATED, REVISED OR ABANDONED.
19. ANY CONSTRUCTION INSTALLED IN CONFLICT WITH THE CONTRACT DOCUMENTS SHALL BE CORRECTED AT NO EXPENSE TO THE OWNER.
20. ALL REQUIRED EXITS FROM OCCUPIED PORTIONS OF THE BUILDING MUST BE MAINTAINED AT ALL TIMES. ESTABLISH PROCEDURES TO MINIMIZE CIRCULATION OF CONSTRUCTION PERSONNEL AND MATERIALS THROUGH OCCUPIED PORTIONS OF THE BUILDING. KEEP ALL AREAS ADJACENT TO THE WORK AREA CLEAN.
21. PRIOR TO DELIVERY OF MATERIALS TO THE CONSTRUCTION ZONE AND REMOVAL OF WASTE FROM THE SITE, VERIFY WITH THE COR FOR AN ACCEPTABLE ACCESS ROUTE AND TIME. UNDER NO CIRCUMSTANCES SHALL ANY AREA OUTSIDE THE CONSTRUCTION ZONE BE USED WITHOUT PRIOR APPROVAL FROM THE COR. ALL BUILDING INTERIOR STAGING AREAS SHALL BE PROTECTED WITH FIRE RESISTANT PLYWOOD ENCLOSURES. ALL TRASH SHALL BE REMOVED FROM THE BUILDING DAILY. CONSTRUCTION MATERIALS SHALL NOT BE STORED IN CORRIDORS OR ANY OTHER UNAUTHORIZED LOCATION AT ANY TIME.
22. FIELD VERIFY ALL EXISTING DIMENSIONS, SERVICES, AND POINTS OF CONNECTION PRIOR TO START OF WORK.
23. THE DESIGN ADEQUACY, SAFETY, AND ERECTION OF BRACING, SHORING, SCAFFOLDING, AND TEMPORARY SUPPORTS AND RESTRAINS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
24. NOTIFY THE FACILITY OF TIMES WHEN THE CONSTRUCTION NOISE WILL BE IN EXCESS OF 80 DB. RESCHEDULE SUCH WORK IF SO REQUIRED BY THE FACILITY.
25. NOTIFY THE COR OF ANY DISCREPANCIES DISCOVERED IN THE FIELD THAT REQUIRE CORRECTIVE ACTION PRIOR TO TAKING ANY ACTION.
26. FOR EXISTING FLOORS, CEILINGS, PARTITIONS, AND SERVICES TO REMAIN, PROTECT ALL FINISHES AND MATERIALS, AND REPAIR OR REPLACE ALL ITEMS THAT ARE DAMAGED OR SOILED DURING THE COURSE OF CONSTRUCTION. ALL FINISHES AND MATERIALS SHALL BE PROPERLY INTEGRATED TO INSTITUTE A UNIFORM APPEARANCE AND SEAMLESS TRANSITION.
27. ALL ITEMS TO BE REMOVED AND REPLACED SHALL BE HANDLED WITH PROPER CARE AND STORED IN SUCH A MANNER AS TO PREVENT DAMAGE; WHEN DAMAGED, REPLACE AT NO EXPENSE TO THE OWNER.
28. ALL EQUIPMENT AND PIPING SHALL BE SUPPORTED OR BRACED IN ACCORDANCE WITH PROVISIONS OF THE TECHNICAL SPECIFICATIONS.
29. ALL DRAWINGS, THOUGH NOTED TO SCALE, ARE FOR ILLUSTRATION ONLY. DO NOT SCALE THE DRAWINGS. FIELD VERIFY ALL DIMENSIONS. ITEMS WRONGLY LOCATED BY DRAWINGS SCALING SHALL BE CORRECTED.
30. SIGNAGE CONSTRUCTION, FONT AND SIZE SHALL BE CONSISTENT WITH THE FACILITY'S EXISTING SIGNAGE SYSTEMS. REFER TO SPECIFICATIONS FOR CODE REQUIRED SIGNAGE. PROVIDE ADDITIONAL SIGNAGE AS MAY BE REQUIRED BY REQUEST OF THE FIRE MARSHAL AND/OR BUILDING CODE OFFICIAL OR C.O.R..
31. EXERCISE CARE DURING CONSTRUCTION TO MINIMIZE DISRUPTION OF THE MEDICAL CENTER ROUTINE, COORDINATE SEQUENCE OF WORK AND PHASING WITH THE COR TO MINIMIZE DISRUPTION OF THE MEDICAL CENTER. MANY OF THE WORK ITEMS REQUIRE THE WORK TO BE PERFORMED ONLY AT NIGHT, WEEKENDS, OR HOLIDAYS WITH PRIOR APPROVAL OF THE C.O.R. AT NO ADDITIONAL COST TO THE GOVERNMENT.
32. PRIOR TO DRILLING OR CORING EXISTING CONCRETE, CONTRACTOR SHALL LOCATE EXISTING REINFORCEMENT TO MAINTAIN ADEQUATE CLEARANCES FROM AND AVOID DAMAGE TO EXISTING REINFORCEMENT. CONTRACTOR SHALL USE NON-DESTRUCTIVE TESTING (NDT) TO LOCATE REINFORCEMENT. WHENEVER FEASIBLE, CONTRACTOR SHALL USE GROUND PENETRATING RADAR (GPR) OR MEANS OTHER THAN X-RAY. WHERE X-RAY IS REQUIRED, CONTRACTOR SHALL PROVIDE WRITTEN REQUEST AT LEAST THREE (3) WEEKS PRIOR TO EVENT: WORK MAY BE REQUIRED TO BE PERFORMED OUTSIDE NORMAL WORK HOURS AND SHALL BE DOCUMENTED ON THE THREE (3) WEEK LOOK-AHEAD SCHEDULE.
33. PROTECT EXISTING FIRE SUPPRESSION SYSTEMS DURING CONSTRUCTION.
34. IN THE EVENT THE CONTRACTOR DISCOVERS HAZARDOUS MATERIALS WHICH ARE NOT AVOIDABLE BY REROUTING THE WORK AND HAVE NOT BEEN DESCRIBED IN THE CONTRACT, THE CONTRACTOR IS TO NOTIFY THE COR AND THE A/E FOR DIFFERING SITE CONDITION ACKNOWLEDGEMENT. REMEDIATION WOULD BE COMPENSATED BY ADDITIONAL MONEY AND ADDITIONAL TIME FOR CRITICAL PATH ACTIVITIES.
35. CONTRACTOR SHALL PROVIDE STAFF THAT WILL UNDERGO TRAINING AND CERTIFICATION TO ALLOW UN-ESCORTED ACCESS TO IT CLOSETS. THE CONTRACTOR SHALL CERTIFY SUFFICIENT NUMBER OF STAFF TO ACCOMMODATE PROPOSED SCHEDULE WITHOUT RELYING ON VA STAFF TO ACCOMPANY AS ESCORTS. THIS WILL REQUIRE PIV BADGING REQUIREMENT INCLUDING BACKGROUND INVESTIGATIONS. SEE "CONTRACTOR BACKGROUND INVESTIGATIONS REQUEST" FORM. COORDINATE WITH CO/CS REGARDING SUBMITTING THE FORM.
36. CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND COORDINATING ANY REQUIRED THIRD PART INSPECTORS.
37. CONTRACTOR TO PAINT ANY EXISTING SPRINKLER PIPING LEFT EXPOSED BY CEILING REMOVAL & PAINT ANY NEW SPRINKLER PIPING EXPOSED IN FINISHED AREAS WITHOUT CEILINGS. PAINT COLOR TO BE RED.

PROJECT DESCRIPTION

THE SCOPE OF THIS PROJECT INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING INFRASTRUCTURE IMPROVEMENTS: ELECTRICAL (ELECTRICAL PANEL UPGRADE, POWER [NORMAL, EMERGENCY]), BONDING, UPS, BUILDING MANAGEMENT SYSTEM INTERFACES, ASSESS FOR NEW AND UPGRADES TO EXISTING HVAC, RECONFIGURATION, EXPANSION AND RENOVATION OF EXISTING SPACE (DEMO, NEW CONSTRUCTION, FINISHES), COMMUNICATION INFRASTRUCTURE (NEW DATA OUTLETS, PATCH PANELS, UPGRADE TO CAT 6A CABLE) IN BUILDINGS AS NECESSARY, PHYSICAL SECURITY UPGRADES, ASSESS AND UPGRADE FIBER INFRASTRUCTURE BACKBONE CAMPUS WIDE WITHIN BUILDINGS AND BETWEEN BUILDINGS, HAZARDOUS MATERIAL ABATEMENT. PROJECT BUILDING LOCATION INCLUDE: BUILDINGS 40, 46, 48, 50, 53, 88, 89, 90, 103, 110, 113, 137, 144, 145, 146, 147, 148, T171, AND T296.

BASIC DEFINITIONS

"OWNER": THE OWNER IS UNITED STATES GOVERNMENT - DEPARTMENT OF VETERANS AFFAIRS AND IS REFERRED TO THROUGHOUT THE CONTACT DOCUMENTS AS IF SINGULAR IN NUMBER. THE TERM "OWNER" MEANS THE OWNER OR THE OWNER'S CONTRACTING OFFICER'S AUTHORIZED REPRESENTATIVE.

"CONTRACTING OFFICER" OR "C.O.": THE OWNER'S AUTHORIZED REPRESENTATIVE RESPONSIBLE FOR ADMINISTRATING THE CONTRACT BETWEEN THE GENERAL CONTRACTOR AND OWNER. THE TERM INCLUDES CERTAIN AUTHORIZED REPRESENTATIVES OF THE CONTRACTING OFFICER ACTING WITHIN THE LIMITS OF THEIR AUTHORITY AS DELEGATED BY THE CONTRACTING OFFICER.

"WORK": THE TERM "WORK" MEANS THE CONSTRUCTION AND SERVICES REQUIRED BY THE CONTRACT DOCUMENTS, WHETHER COMPLETED OR PARTIALLY COMPLETED, AND INCLUDES ALL OTHER LABOR, MATERIALS, EQUIPMENT AND SERVICES PROVIDED BY THE CONTRACTOR TO FULFILL THE CONTRACTOR'S OBLIGATIONS. THE WORK MAY CONSTITUTE THE WHOLE OR A PART OF THE PROJECT.

"PROJECT": THE TOTAL CONSTRUCTION OF WHICH THE WORK PERFORMED UNDER THE CONTRACT DOCUMENTS

"DRAWINGS", "SHOP DRAWINGS", OR "PLANS": THE GRAPHIC AND PICTORIAL PORTIONS OF CONTRACT DOCUMENTS, WHENEVER LOCATED AND WHEREVER ISSUED, SHOWING DESIGN, LOCATION AND DIMENSIONS OF THE WORK, GENERALLY INCLUDING PLANS, ELEVATIONS, SECTIONS, DETAILS, SCHEDULES AND DIAGRAMS.

"PROJECT SUPERVISOR" OR "SUPERVISOR": MEANS THE ON-SITE SUPERVISION REPRESENTATIVE OF THE PROJECT.

"ARCHITECT" OR "ENGINEER": MEANS THE VA'S ARCHITECTS, ENGINEERS AND OTHER DESIGN AND ENGINEERS PROFESSIONALS FOR THIS PROJECT, AND REFERRED THROUGHOUT THE DRAWINGS AS IF SINGULAR IN NUMBER.

"TRADE CONTRACTOR" OR "CONTRACTORS": MEANS THE ENTITY UNDER CONTRACT AGREEMENT WITH THE GENERAL CONTRACTOR TO PROVIDE THE SPECIFIED GENERAL AND OR SPECIALTY WORK IN CONNECTION WITH THIS PROJECT.

"FURNISHED" OR "FURNISHED": MEANS PROVIDING ALL MATERIALS, SHOP DRAWINGS, TRANSPORTATION INSURANCE, FIELD MEASUREMENTS,EXPEDITING, SHIPPING, HANDLING, PACKAGING, STORAGE, TOUCH-UP MATERIALS, OWNER'S MANUALS, TRAINING AND ANY OTHER ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.

"INSTALL" OR "INSTALLED": MEANS COMPLETING ALL WORK AND COSTS ASSOCIATED WITH UNLOADING, UNPACKING, HOISTING, STORAGE, HANGERS, SUPPORTS, SLEEVES, SCAFFOLDING, COORDINATION, LAYOUT, SHOP DRAWINGS, EXCAVATION, BACKFILL, DEWATERING, INSTALLATION, CUTTING AND PATCHING, FIRESTOPPING, CLEAN-UP, INSPECTION, DOCUMENTATION, PROTECTION OF SCOPE OF WORK AND ALL ACCESSORIES, SERVICE AND FACILITIES REQUIRED FOR A COMPLETE INSTALLATION.

"PROVIDE" OR "PROVIDED": MEANS TO FURNISH AND INSTALL AND SHALL INCLUDE, WITHOUT LIMITATION, ALL LABOR, MATERIALS, EQUIPMENTS, TRANSPORTATION SERVICES, AND OTHER ITEMS REQUIRED TO COMPLETE THE REFERENCED TASK.

"BY OWNER", "BY VAMC" OR "BY VA": MEANS ITEMS WILL BE ORDERED, PAID FOR, SHIPPED TO THE JOB SITE AND INSTALLED BY THE OWNER.

"NOT IN CONTRACT" OR "N.I.C.": MEANS MATERIALS OR EQUIPMENT NOT IN THE CONTRACT, BUT MAY REQUIRE PROVISIONS IN THE CONSTRUCTION FOR FUTURE INSTALLATION AS SPECIFIC OR SHOWN.

OTHER DEFINITIONS OF WORDS AND TERMS USED IN THE DRAWINGS AND SPECIFICATIONS CAN BE FOUND IN THE LEGENDS AND SYMBOLS DRAWINGS FOR EACH DISCIPLINE AND IN DIVISIONS 0 AND 1 OF THE PROJECT MANUAL.

TEMPORARY FIRE & SMOKE PROTECTION

IF MULTIPLE CEILING TILES MUST BE REMOVED AND CANNOT BE REPLACED AT THE END OF THE WORK SHIFT, A 1-HOUR FIRE BARRIER WILL NEED TO BE CONSTRUCTED. IF CONTRACTOR IDENTIFIES UPCOMING WORK RESULTING IN A LONG-TERM CEILING REMOVAL, NOTIFY THE COR IMMEDIATELY WHETHER A RATED ENCLOSURE MUST BE CONSTRUCTION OR TEMPORARY UPRIGHT SPRINKLER HEADS INSTALLED. THIS WORK IS TO BE PART OF THE SUBMITTED SCOPE OF WORK.

IF FLOOR OR RATED WALL PENETRATIONS CANNOT BE FIRESTOPPED AT THE END OF THE WORK SHIFT DUE TO THE NEED TO PULL ADDITIONAL CABLES, TEMPORARY FIRESTOPPING COMPOSED OF MINERAL WOOL SHOULD BE INSTALLED IN THE PENETRATION TO PROVIDE PROTECTION AGAINST FIRE/SMOKE SPREAD THROUGH THE UNSEALED PENETRATION.

WHERE EXISTING CEILINGS ARE TEMPORARILY REMOVED FOR LONGER THAN ONE WORKING SHIFT, PROVIDE TEMPORARY UPRIGHT SPRINKLER HEADS.
WHERE EXISTING CEILINGS ARE PERMANENTLY REMOVED, COORDINATE INSTALLATION OF UPRIGHT HEADS WITHIN ONE WORKING SHIFT TO AVOID LOSS OF SPRINKLER PROTECTION.

PROJECT TEAM

OWNER
BLACK HILLS VA HEALTHCARE SYSTEM
FORT MEADE VAMC
113 COMANCHE ROAD
FORT MEADE, SD 57741

ARCHITECT
A&E ARCHITECTS
124 NORTH 29th STREET, SUITE 100
BILLINGS, MT 59101
406.248.2633

TELECOMMUNICATIONS
GDM - PUGET SOUND DISTRICT OFFICE
4317 6Th AVE SE, SUITE 300
LACEY, WA 98503
360.318.7095

STRUCTURAL
GDM - VANCOUVER DISTRICT OFFICE
1308 NW 134TH STREET, SUITE A
VANCOUVER, WA 98685
541.436.4723

FIRE PROTECTION ENGINEER
GDM - VANCOUVER DISTRICT OFFICE
1308 NW 134TH STREET, SUITE A
VANCOUVER, WA 98685
541.436.4723

ENGINEER, PROJECT LEAD
GDM - PUGET SOUND DISTRICT OFFICE
4317 6Th AVE SE, SUITE 300
LACEY, WA 98503
360.318.7095

MECHANICAL ENGINEER
GDM - PUGET SOUND DISTRICT OFFICE
4317 6Th AVE SE, SUITE 300
LACEY, WA 98503
360.318.7095

ELECTRICAL ENGINEER
GDM - VANCOUVER DISTRICT OFFICE
1308 NW 134TH STREET, SUITE A
VANCOUVER, WA 98685
541.436.4723

CIVIL ENGINEER
GDM - VANCOUVER DISTRICT OFFICE
1308 NW 134TH STREET, SUITE A
VANCOUVER, WA 98685
541.436.4723

INDUSTRIAL HYGIENE
GDM - ARCTIC DISTRICT OFFICE
1401 W 34TH AVE, SUITE 200
ANCHORAGE, ALASKA 99503
907.917.2957

ARCHITECTURAL ABBREVIATIONS

AB ANCHOR BOLT
ABV ABOVE
A/C AIR CONDITIONING
ACT ACOUSTICAL CEILING TILE
ADDL ADDITIONAL
ADJ ADJUSTABLE
AFF ABOVE FINISH FLOOR
ALT ALTERNATE
ALUM ALUMINUM
ARCH ARCHITECT(URAL)
AWN AWNING

B/ BOTTOM OF
BD BOARD
BLDG BUILDING
BLKG BLOCKING
BM BEAM OR BENCHMARK
BRG BEARING
BTWN BETWEEN
BUR BUILT-UP ROOF

CAB CABINET
CJ CONTROL JOINT
CL CENTERLINE
CLG CEILING
CMU CONCRETE MASONRY UNIT
CO CLEAN OUT
COL COLUMN
CONC CONCRETE
CONT CONTINUOUS
CONST CONSTRUCTION
CG CORNER GUARD
CPT CARPET
CSMT CASEMENT
CT CERAMIC TILE

D DEEP
DF DRINKING FOUNTAIN
DH DOUBLE HUNG
DIM(S) DIMENSIONS
DISP DISPENSER
DN DOWN
DR DOOR
DS DOWNSPOUT
DTL DETAIL
DWG DRAWING

E EAST
EA EACH
EC EXISTING COLUMN
EJ EXPANSION JOINT
ELEC ELECTRICAL
EL ELEVATION
ELEV ELEVATOR
EQ EQUAL
EQUIP EQUIPMENT
EWC ELECTRIC WATER COOLER
EXH EXHAUST
EXIST EXISTING
EXP EXPANSION OR EXPOSED
EXT EXTERIOR

FACP FIRE ALARM CONTROL PANEL
FD FLOOR DRAIN
FE FIRE EXTINGUISHER
FEC FIRE EXTINGUISHER CABINET
F.F. FINISH FLOOR
FIN FINISH
FIXT FIXTURE
FLR FLOOR
FND FOUNDATION
FP FIRE PROTECTION
FR FRAME
FRMG FRAMING
FT FEET/FOOT OR FIRE TREATED
FTG FOOTING
FTNG FOOTING
FRP FIBERGLASS REINFORCED PANEL
FRT FIRE RETARDANT TREATED

GA GAUGE
GALV GALVANIZED
GB GYPSUM BOARD
GC GENERAL CONTRACTOR
GL GLASS, GLAZING
GWB GYPSUM WALL BOARD
GYP GYPSUM

HC HANDICAP
HDR HEADER
HDW HARDWARE
HM HOLLOW METAL
HORIZ HORIZONTAL
HR HOUR
HT HEIGHT
HTD HEATED
HVAC HEATING/VENTILATION & AIR CONDITIONING

ID INSIDE DIAMETER
INFO INFORMATION
ISO ISOCYANURATE
INSUL INSULATE / INSULATED / INSULATION
INT INTERIOR
INV INVERT

JT JOINT
J-BOX JUNCTION BOX

KIT KITCHEN

L LONG / LENGTH
LAM LAMINATE(D)
LAV LAVATORY
LF LINEAR FEET
LT LIGHT

MAS MASONRY
MATL MATERIAL
MAX MAXIMUM
MECH MECHANIC(AL)
MEZZ MEZZANINE
MFR MANUFACTURER
MH MANHOLE
MIN MINIMUM
MISC MISCELLANEOUS
MO MASONRY OPENING
MTL METAL

N NORTH
NIC NOT IN CONTRACT
NOM NOMINAL
NTS NOT TO SCALE

OC ON CENTER
OD OUTSIDE DIAMETER OR OVERFLOW DRAIN
OPNG OPENING
OPP OPPOSITE
OSB ORIENTED STRAND BOARD
OVHD OVERHEAD

PL PLATE
PLAM PLASTIC LAMINATE
PLUMB PLUMBING
PLYWD PLYWOOD
PNL PANEL
PNT PAINT
POLY POLYESTER OR POLYOLEFIN
PSF POUNDS PER SQUARE FOOT
PSI POUNDS PER SQUARE INCH
PT PRESSURE TREATED OR POINT
PVMT PAVEMENT

QT QUARRY TILE
QTR QUARTER
QTY QUANTITY

R RADIUS
RA RETURN AIR
RB RUBBER BASE
RD ROOF DRAIN
RECY RECYCLE(D)
REF REFERENCE
REFRIG REFRIGERATOR OR REFRIGERATION
REINF REINFORCE
REQD REQUIRED
RM ROOM
RO ROUGH OPENING
ROW RIGHT OF WAY

S SOUTH
SC SOLID CORE
SCH SCHEDULE
SCHED SCHEDULED
SECT SECTION
SF SQUARE FEET
SFRM SPRAY APPLIED FIRE RESISTIVE MATERIAL
SGL SINGLE
SHT SHEET
SHTG SHEATHING
SIM SIMILAR
SPECS SPECIFICATIONS
SOD SLAB ON DECK
SOG SLAB ON GRADE
SOH SAME OPPOSITE HAND
SS STAINLESS STEEL
ST STONE TILE
STD STANDARD
STND STANDARD
STL STEEL
STRUCT STRUCTURAL

TEMP TEMPERED
THK THICK
THRESH THRESHOLD
T.O. TOP OF
TOBM TOP OF BEAM
T.O.BM. TOP OF BEAM
T.O.P. TOP OF PLATE
T.O.S. TOP OF STEEL
T/ TOP OF
T&G TONGUE AND GROOVE
TEL TELEPHONE
THK THICK
TRANS TRANSOM
TV TELEVISION
TYP TYPICAL

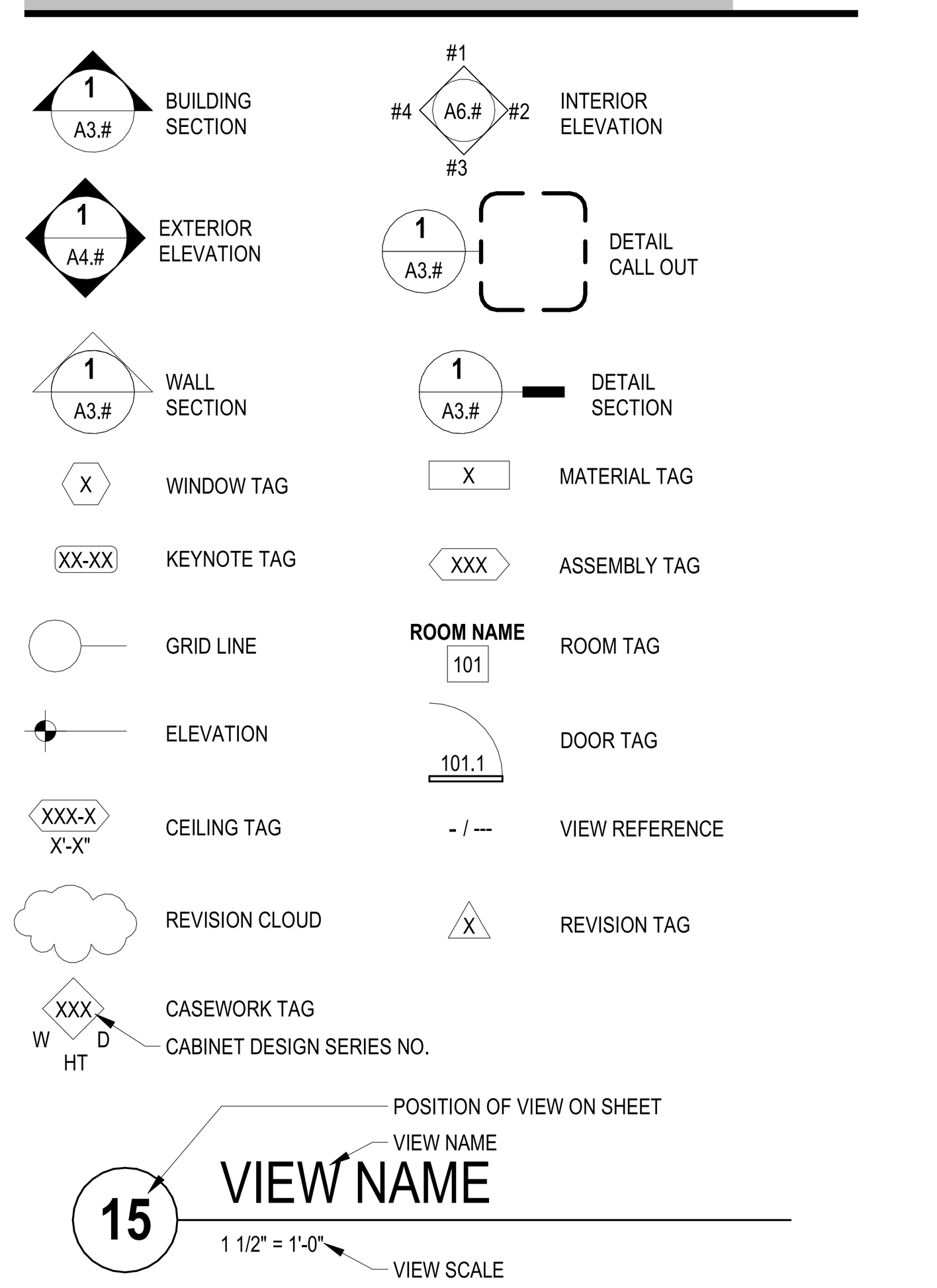
UL UNDERWRITERS LABORATORY
UNO UNLESS NOTED OTHERWISE

VB VINYL BASE
VCT VINYL COMPOSITION TILE
VERT VERTICAL
VEST VESTIBULE
VIF VERIFY IN FIELD
VP VENEER PLASTER
VR VAPOR RETARDER
VT VINYL TILE
VWC VINYL WALL COVERING

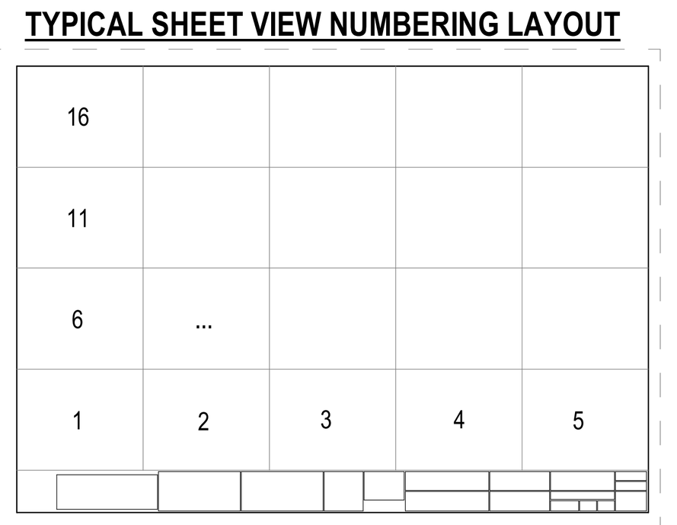
W WIDE OR WEST
W/ WITH
WC WATER CLOSET
WD WOOD
WDW WINDOW
WG WALL GUARD
WH WATER HEATER
W/IN WITHIN
W/O WITHOUT
WP WATERPROOF
WR WATER RESISTANT
WT WEIGHT
WWF WELDED WIRE FABRIC

\# NUMBER OR POUND
@ AT

EXPLANATION OF SYMBOLS



TYPICAL SHEET VIEW NUMBERING LAYOUT



ARCH E1 (30"x42")
NUMBERING STARTS IN BOTTOM LEFT CORNER, MOVING UPWARDS, SKIPPING NONE

Revisions:	Date:

CONSULTANT
ARCHITECT
A&E DESIGN
124 NORTH 29TH STREET, #100
BILLINGS, MONTANA 59101
406.248.2633
PAUL SIDERIUS, AIA
https://www.ae.design/

ARCHITECT/ENGINEER OF RECORD
A/E:
GDM of Oregon
1308 NE 134th St., Suite A
VANCOUVER, WA 98685
P: 541.426.4723
ADAM GODDIN, PE
WWW.GDM-AE.COM

GDM
ARCHITECTS • ENGINEERS

STAMP
STATE OF MONTANA
BILLINGS
ERIC RICHARD HELDT
2399
LICENSED ARCHITECT

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT
VA U.S. Department of Veterans Affairs

DRAWING TITLE	PHASE	PROJECT TITLE	PROJECT NUMBER
COVER AND PROJECT GENERAL INFORMATION - VOLUME 3	100% CONSTRUCTION DOCUMENTS	EHRM INFRASTRUCTURE UPGRADES	568-21-701
			BUILDING NUMBER: GEN INFO
APPROVED: Project Director	FLS	LOCATION: FORT MEADE, SOUTH DAKOTA	DRAWING NUMBER
FOR OFFICIAL USE ONLY (FOUO)	FULLY SPRINKLERED	ISSUE DATE: 11/05/2024; CHECKED BY: PSS; DRAWN BY: JPR	00-GI-000.V3

DRAWING INDEX

VOLUME 1

GENERAL INFORMATION

SHEET NO.	SHEET NAME
00-GI-000.V1	COVER AND PROJECT GENERAL INFORMATION - VOLUME 1
00-GI-001.V1	DRAWING INDEX AND PROJECT GENERAL NOTES - VOLUME 1
00-GI-002	PROJECT CODE SUMMARY & SCHEDULE FOR FINISHES
00-GI-003	PROJECT LOCATION MAPS & CAMPUS PLAN
00-GI-004	ICRA CLASSIFICATION PROCESS
00-GI-005	PROJECT ASSEMBLY TYPES
00-GI-006	DOOR SCHEDULE, TYPICAL CEILING AND DOOR DETAILS
00-GI-007	PARTITION DETAILS
00-GI-008	FIRE PROTECTION NOTES

CIVIL

SHEET NO.	SHEET NAME
CI0001	CIVIL - GENERAL NOTES
RC0001	CIVIL - EXISTING PLANS
CU0100	CIVIL - OVERALL PRIMARY FIBER OPTICS SITE PLAN
CU0101	CIVIL - PRIMARY FIBER OPTICS PLAN
CU0102	CIVIL - PRIMARY FIBER OPTICS PLAN
CU0103	CIVIL - PRIMARY FIBER OPTICS PLAN
CU0104	CIVIL - PRIMARY FIBER OPTICS PLAN
CU0105	CIVIL - PRIMARY FIBER OPTICS PLAN
CU0106	CIVIL - PRIMARY FIBER OPTICS PLAN
CU0107	CIVIL - PRIMARY FIBER OPTICS PLAN
CU0108	CIVIL - PRIMARY FIBER OPTICS PLAN
CU0109	CIVIL - PRIMARY FIBER OPTICS PLAN
CU0110	CIVIL - PRIMARY FIBER OPTICS PLAN
CU0111	CIVIL - PRIMARY FIBER OPTICS PLAN
CU0300	CIVIL - PRIMARY FIBER OPTICS PROFILES
CU0301	CIVIL - PRIMARY FIBER OPTICS PROFILES
CU0302	CIVIL - PRIMARY FIBER OPTICS PROFILES
CU0303	CIVIL - PRIMARY FIBER OPTICS PROFILES
CU0304	CIVIL - PRIMARY FIBER OPTICS PROFILES
CU0305	CIVIL - PRIMARY FIBER OPTICS PROFILES
CJ0001	CIVIL - DETAILS
CJ0002	CIVIL - DETAILS
CE0100	CIVIL - OVERALL ELECTRICAL SITE PLAN
CE0101	CIVIL - ELECTRICAL SITE PLAN
CG0100	GRADING PLAN - BLDG 145
CG0200	GRADING PLAN - BLDG T-296

STRUCTURAL

SHEET NO.	SHEET NAME
SN001	STRUCTURAL NOTES
SN001	STRUCTURAL NOTES
145-SF-101	FOUNDATION PLAN - BUILDING 145
145-SF-102	FIRST FLOOR FRAMING PLAN - BUILDING 145
145-SD-101	STRUCTURAL DETAILS - BUILDING 145
T296-SF-101	FOUNDATION & ROOF FRAMING PLANS- BUILDING T296

ARCHITECTURAL

SHEET NO.	SHEET NAME
40-AE-201	40-FLOOR PLANS
46-AE-201	46-FLOOR PLANS
48-AE-201	48-FLOOR PLANS
50-AE-201	50-FLOOR PLANS
53-AD-201	53-DEMOLITION FLOOR PLANS
53-AE-201	53-BASEMENT AND LEVEL 1 FLOOR PLANS
53-AE-202	53-LEVEL 2 AND ATTIC FLOOR PLANS
53-AE-301	53-ENLARGED PLANS AND ELEVATIONS
88-AE-201	88-LEVEL 1 FLOOR PLANS AND ELEVATIONS
88-AE-202	88-LEVEL 2 FLOOR PLANS
89-AD-201	89-DEMOLITION FLOOR PLANS
89-AE-200	89-FLOOR PLANS
89-AE-301	89-ENLARGED PLANS AND ELEVATIONS
90-AD-201	90-DEMOLITION FLOOR PLANS
90-AE-201	90-LEVEL 1 PLANS AND ELEVATIONS
90-AE-202	90-LEVEL 2 FLOOR PLAN
103-AE-201	103-LEVEL 1 FLOOR PLAN
110-AE-201	110-FLOOR PLANS
113-AD-200	113-BASEMENT DEMOLITION PLAN
113-AD-201	113-LEVEL 1 DEMOLITION PLAN
113-AD-202	113-LEVEL 2 DEMOLITION PLAN
113-AE-200	113-BASEMENT FLOOR PLAN
113-AE-201	113-LEVEL 1 FLOOR PLAN
113-AE-202	113-LEVEL 2 FLOOR PLAN
113-AE-203	113-ROOF AND PENTHOUSE FLOOR PLAN
113-AE-204	CONNECTOR CORRIDORS FLOOR PLANS
113-AE-301	113-ENLARGED PLANS AND ELEVATIONS
113-AE-302	113-ENLARGED PLANS AND ELEVATIONS
113-AE-303	113-ENLARGED PLANS AND ELEVATIONS
137-AE-200	137-FLOOR PLANS
145-AD-201	145-DEMOLITION FLOOR PLAN
145-AD-202	145-DEMOLITION 2ND AND 3RD LEVEL PLANS
145-AE-201	145-LEVEL 1, LEVEL 2, AND LEVEL 3 FLOOR PLANS
145-AE-202	145-ROOF / PENTHOUSE AND TUNNEL FLOOR PLANS
145-AE-301	145-ENLARGED MCR PLANS
145-AE-302	145-ENLARGED OIT PLANS
145-AE-303	145-ENLARGED TR PLANS AND ELEVATIONS
145-AE-305	145-ENLARGED TR PLANS AND ELEVATIONS
145-AE-306	145-ENLARGED OFFICE / MAILROOM PLANS & ELEVS
145-AE-601	145-MCR ELEVATIONS
145-AE-602	145-SECTIONS AND DETAILS
145-AE-801	145-VERTICAL CIRCULATION
145-AE-802	145-STAIR, RAMP AND RAILING DETAILS
146-AE-201	146-FLOOR PLANS

VOLUME 1 (*Continued*)

ARCHITECTURAL (*Continued*)

SHEET NO.	SHEET NAME
146-AE-301	146-ENLARGED PLANS AND ELEVATIONS
148-AD-201	148-LEVEL 1 DEMOLITION PLAN
148-AE-201	148-LEVEL 1 FLOOR PLAN
148-AE-202	148 ROOF PLAN
148-AE-301	148-ENLARGED PLANS AND TR ELEVATIONS
148-AE-302	148-ENLARGED PLANS AND TR ELEVATIONS
148-AE-303	148-ENLARGED PLANS AND TR ELEVATIONS
T171-AE-201	T171-FLOOR PLANS
T296-AD-201	T296-LEVEL 1 DEMOLITION PLAN
T296-AE-201	T296-FLOOR PLANS AND ELEVATIONS
T296-AE-501	T296-BUILDING ELEVATIONS AND DETAILS

MECHANICAL

SHEET NO.	SHEET NAME
MG-001	MECHANICAL LEGENDS & ABBREVIATIONS
MG-002	MECHANICAL SCHEDULES
MG-003	MECHANICAL SCHEDULES
MG-004	MECHANICAL SITE PLAN
MG-005	MECHANICAL DETAILS
MG-006	MECHANICAL DETAILS
000-MH-001	MECHANICAL SITE PLAN
040-MD-011	040 - MECHANICAL DEMOLITION - OVERALL
040-MH-011	040 - MECHANICAL REMODEL - OVERALL
046-MD-011	046 - MECHANICAL DEMOLITION - OVERALL
046-MH-011	046 - MECHANICAL REMODEL - OVERALL
048-MD-011	048 - MECHANICAL DEMOLITION - OVERALL
048-MH-011	048 - MECHANICAL REMODEL - OVERALL
050-MD-011	050 - MECHANICAL DEMOLITION - OVERALL
050-MH-011	050 - MECHANICAL REMODEL - OVERALL
053-MD-011	053 - MECHANICAL DEMOLITION - OVERALL
053-MH-011	053 - MECHANICAL REMODEL - OVERALL
088-MD-011	088 - MECHANICAL DEMOLITION - OVERALL
088-MH-011	088 - MECHANICAL REMODEL - OVERALL
089-MD-011	089 - MECHANICAL DEMOLITION - OVERALL
089-MH-011	089 - MECHANICAL REMODEL - OVERALL
090-MD-011	090 - MECHANICAL DEMOLITION - OVERALL
090-MH-011	090 - MECHANICAL REMODEL - OVERALL
110-MD-011	110 - MECHANICAL DEMOLITION - OVERALL
110-MH-011	110 - MECHANICAL REMODEL - OVERALL
113-MD-001	113 - MECHANICAL DEMOLITION - BASEMENT - OVERALL
113-MD-011	113 - MECHANICAL DEMOLITION - FIRST FLOOR - OVERALL
113-MD-012	113 - MECHANICAL DEMOLITION - SECOND FLOOR - OVERALL
113-MD-013	113 - MECHANICAL DEMOLITION - UPPER ROOF - OVERALL
113-MD-014	113 - ENLARGED DEMOLITION PLANS
113-MD-015	113 - ENLARGED DEMOLITION PLANS
113-MH-001	113 - MECHANICAL REMODEL - BASEMENT - OVERALL
113-MH-011	113 - MECHANICAL REMODEL - FIRST FLOOR - OVERALL
113-MH-012	113 - MECHANICAL REMODEL - SECOND FLOOR - OVERALL
113-MH-013	113 - MECHANICAL REMODEL - UPPER ROOF - OVERALL
113-MH-014	113 - ENLARGED REMODEL PLANS
113-MH-015	113 - ENLARGED REMODEL PLANS
137-MD-011	137 - MECHANICAL DEMOLITION - FIRST FLOOR - OVERALL
137-MH-011	137 - MECHANICAL REMODEL - FIRST FLOOR - OVERALL
144-MH-011	144 - MECHANICAL REMODEL - FIRST FLOOR - OVERALL
145-MD-011	145 - MECHANICAL DEMOLITION - OVERALL
145-MD-012	145 - ENLARGED DEMOLITION PLANS
145-MD-013	145 - ENLARGED DEMOLITION PLAN
145-MD-014	145 - ENLARGED DEMOLITION PLAN
145-MD-015	145 - ENLARGED DEMOLITION PLAN
145-MH-011	145 - MECHANICAL REMODEL - OVERALL
145-MH-012	145 - ENLARGED REMODEL PLANS
145-MH-013	145 - ENLARGED REMODEL PLANS
145-MH-014	145 - ENLARGED REMODEL PLANS
145-MH-015	145 - ENLARGED REMODEL PLANS
145-MH-016	145 - ENLARGED REMODEL PLANS
145-MH-017	145 - ENLARGED REMODEL PLANS
145-MH-020	145 - MECHANICAL REMODEL OVERALL
145-MH-021	145 - ENLARGED REMODEL PLANS
146-MD-011	146 - MECHANICAL DEMOLITION - FIRST FLOOR - OVERALL
146-MH-011	146 - MECHANICAL REMODEL - FIRST FLOOR - OVERALL
147-MD-011	147 - MECHANICAL DEMOLITION - FIRST FLOOR - OVERALL
147-MH-011	147 - MECHANICAL REMODEL - FIRST FLOOR - OVERALL
147-MH-012	147 - MECHANICAL REMODEL - ROOF - OVERFLOW
148-MD-011	148 - MECHANICAL DEMOLITION - FIRST FLOOR - OVERALL
148-MD-012	148 - ENLARGED MECHANICAL DEMOLITION PLANS
148-MH-011	148 - MECHANICAL REMODEL - ROOF - OVERALL
148-MH-012	148 - MECHANICAL REMODEL - FIRST FLOOR - OVERALL
148-MH-013	148 - ENLARGED MECHANICAL REMODEL PLANS
T171-MD-011	T171 - MECHANICAL DEMOLITION - OVERALL
T171-MH-011	T171 - MECHANICAL REMODEL - OVERALL
T296-MD-011	T296 - MECHANICAL DEMOLITION - OVERALL
T296-MH-011	T296 - MECHANICAL REMODEL - OVERALL

VOLUME 2

GENERAL INFORMATION

SHEET NO.	SHEET NAME
00-GI-000.V2	COVER AND PROJECT GENERAL INFORMATION - VOLUME 2
00-GI-001.V2	DRAWING INDEX- VOLUME 2

TELECOMMUNICATIONS

SHEET NO.	SHEET NAME
00-TG-001	LEGEND, ABBREVIATIONS, AND GENERAL NOTES
00-TS-000	TELECOMMUNICATIONS OVERALL SITE PLAN
00-TS-001	TELECOMMUNICATIONS SITE PLAN
00-TS-002	TELECOMMUNICATIONS SITE PLAN
00-TS-003	TELECOMMUNICATIONS SITE PLAN
00-TS-004	TELECOMMUNICATIONS SITE PLAN
00-TS-005	TELECOMMUNICATIONS SITE PLAN
00-TS-006	TELECOMMUNICATIONS SITE PLAN
040-TD-011	040 - TELECOM DEMOLITION PLAN - FIRST FLOOR
040-TN-010	040 - TELECOM DISTANCE ASSESSMENT
040-TN-011	040 - TELECOM REMODEL PLAN - FIRST FLOOR
046-TD-0B1	046 - TELECOM DEMOLITION PLANS
046-TN-0B0	046 - TELECOM DISTANCE ASSESSMENT
046-TN-0B1	046 - TELECOM REMODEL PLANS
048-TD-0B1	048 - TELECOM DEMOLITION PLANS
048-TN-0B0	048 - TELECOM DISTANCE ASSESSMENT
048-TN-0B1	048 - TELECOM REMODEL PLANS
050-TD-011	050 - TELECOM DEMOLITION PLAN
050-TN-010	050 - TELECOM DISTANCE ASSESSMENT
050-TN-011	050 - TELECOM REMODEL PLAN
053-TD-0B1	053 - TELECOM DEMOLITION PLAN - BASEMENT AND FIRST FLOOR
053-TD-021	053 - TELECOM DEMOLITION PLAN - SECOND FLOOR AND ATTIC
053-TN-0B0	053 - TELECOM DISTANCE ASSESSMENT
053-TN-0B1	053 - TELECOM REMODEL PLAN - BASEMENT AND FIRST FLOOR
053-TN-021	053 - TELECOM REMODEL PLAN - SECOND FLOOR
088-TD-011	088 - TELECOM DEMOLITION PLAN
088-TN-010	088 - TELECOM DISTANCE ASSESSMENT
088-TN-011	088 - TELECOM REMODEL PLAN
089-TD-011	089 - TELECOM DEMOLITION PLAN
089-TN-010	088 - TELECOM DISTANCE ASSESSMENT
089-TN-011	089 - TELECOM REMODEL PLAN
090-TD-011	090 - TELECOM DEMOLITION PLAN
090-TN-010	090 -TELECOM DISTANCE ASSESSMENT
090-TN-011	090 -TELECOM REMODEL PLAN
110-TD-011	110 - TELECOM DEMOLITION PLAN - FIRST FLOOR
110-TN-011	110 - TELECOM REMODEL PLAN - FIRST FLOOR
113-TD-001	113 - TELECOM DEMOLITION PLAN - BASEMENT LAYOUT
113-TD-002	113 - TELECOM DEMOLITION PLAN - BASEMENT NORTH
113-TD-003	113 - TELECOM DEMOLITION PLAN - BASEMENT EAST
113-TD-004	113 - TELECOM DEMOLITION PLAN - BASEMENT SOUTH
113-TD-011	113 - TELECOM DEMOLITION PLAN - FIRST FLOOR LAYOUT
113-TD-012	113 - TELECOM DEMOLITION - FIRST FLOOR NORTH
113-TD-013	113 - TELECOM DEMOLITION - FIRST FLOOR CENTRAL
113-TD-014	113 - TELECOM DEMOLITION - FIRST FLOOR EAST
113-TD-015	113 - TELECOM DEMOLITION - FIRST FLOOR SOUTH
113-TD-021	113 - TELECOM DEMOLITION - SECOND FLOOR LAYOUT
113-TD-022	113 - TELECOM DEMOLITION - SECOND FLOOR NORTH
113-TN-000	113 - TELECOM REMODEL - BASEMENT FIBER PLAN
113-TN-001	113 - TELECOM DISTANCE ASSESSMENT - BASEMENT
113-TN-002	113 - TELECOM REMODEL - BASEMENT NORTH
113-TN-003	113 - TELECOM REMODEL - BASEMENT EAST
113-TN-004	113 - TELECOM REMODEL - BASEMENT SOUTH
113-TN-010	113 - TELECOM REMODEL - FIRST FLOOR FIBER PLAN
113-TN-011	113 - TELECOM DISTANCE ASSESSMENT - FIRST FLOOR
113-TN-012	113 - TELECOM REMODEL - FIRST FLOOR NORTH
113-TN-013	113 - TELECOM REMODEL - FIRST FLOOR CENTRAL
113-TN-014	113 - TELECOM REMODEL - FIRST FLOOR EAST
113-TN-015	113 - TELECOM REMODEL - FIRST FLOOR SOUTH
113-TN-021	113 - TELECOM REMODEL - SECOND FLOOR FIBER PLAN
113-TN-022	113 - TELECOM REMODEL - SECOND NORTH
137-TD-011	137 - TELECOM DEMOLITION PLANS
137-TN-010	137 - TELECOM DISTANCE ASSESSMENT
137-TN-011	137 - TELECOM REMODEL PLANS
144-TD-011	144 - TELECOM DEMOLITION PLAN - FIRST FLOOR
144-TN-011	144 - TELECOM REMODEL PLAN - FIRST FLOOR
145-TD-011	145 - TELECOM DEMOLITION PLAN - FIRST FLOOR SOUTH
145-TD-012	145 - TELECOM DEMOLITION PLAN - FIRST FLOOR NORTH
145-TD-021	145 - TELECOM DEMOLITION PLAN - SECOND FLOOR SOUTH
145-TD-022	145 - TELECOM DEMOLITION PLAN - SECOND FLOOR NORTH
145-TD-031	145 - TELECOM DEMOLITION PLAN - THIRD FLOOR SOUTH
145-TD-032	145 - TELECOM DEMOLITION PLAN - THIRD FLOOR NORTH
145-TN-010	145 - TELECOM DISTANCE ASSESSMENT - FIRST FLOOR
145-TN-011	145 - TELECOM REMODEL PLAN - FIRST FLOOR FIBER ROUTING - A SIDE
145-TN-012	145 - TELECOM REMODEL PLAN - FIRST FLOOR FIBER ROUTING - B SIDE
145-TN-013	145 - TELECOM REMODEL PLAN - FIRST FLOOR SOUTH
145-TN-014	145 - TELECOM REMODEL PLAN - FIRST FLOOR NORTH
145-TN-015	145 - MCR DETAILS
145-TN-021	145 - TELECOM DISTANCE ASSESSMENT - SECOND & THIRD FLRS
145-TN-022	145 - TELECOM REMODEL PLAN - SECOND FLOOR SOUTH
145-TN-023	145 - TELECOM REMODEL PLAN - SECOND FLOOR NORTH
145-TN-031	145 - TELECOM REMODEL PLAN - THIRD FLOOR SOUTH
145-TN-032	145 - TELECOM REMODEL PLAN - THIRD FLOOR NORTH
146-TD-011	146 - TELECOM DEMOLITION PLAN - FIRST FLOOR
146-TN-0B1	146 - TELECOM REMODEL PLAN - BASEMENT
146-TN-010	146 - TELECOM DISTANCE ASSESSMENT
146-TN-011	146 - TELECOM REMODEL PLAN - FIRST FLOOR
147-TD-011	147 - TELECOM DEMOLITION PLAN - FIRST FLOOR
147-TN-010	147 - TELECOM DISTANCE ASSESSMENT
147-TN-011	147 - TELECOM REMODEL PLAN - FIRST FLOOR
148-TD-011	148 - TELECOM DEMOLITION PLAN - FIRST FLOOR
148-TD-012	148 - TELECOM DEMOLITION PLAN - FIRST FLOOR SECTOR A
148-TD-013	148 - TELECOM DEMOLITION PLAN - FIRST FLOOR SECTOR B
148-TD-014	148 - TELECOM DEMOLITION PLAN - FIRST FLOOR SECTOR C
148-TD-015	148 - TELECOM DEMOLITION PLAN - FIRST FLOOR SECTOR E
148-TD-016	148 - TELECOM DEMOLITION PLAN - FIRST FLOOR SECTOR G
148-TN-010	148 - TELECOM DISTANCE ASSESSMENT
148-TN-011	148 - TELECOM REMODEL PLAN - FIRST FLOOR FIBER PLAN
148-TN-012	148 - TELECOM REMODEL PLAN - FIRST FLOOR SECTOR A
148-TN-013	148 - TELECOM REMODEL PLAN - FIRST FLOOR SECTOR B
148-TN-014	148 - TELECOM REMODEL PLAN - FIRST FLOOR SECTOR D
148-TN-015	148 - TELECOM REMODEL PLAN - FIRST FLOOR SECTOR E
148-TN-016	148 - TELECOM REMODEL PLAN - FIRST FLOOR SECTOR G

VOLUME 2 (*Continued*)

TELECOMMUNICATIONS (*Continued*)

SHEET NO.	SHEET NAME
T171-TD-011	T171 - TELECOM DEMOLITION PLAN - FIRST FLOOR
T171-TN-010	T171 - TELECOM DISTANCE ASSESSMENT
T171-TN-011	T171 - TELECOM REMODEL PLAN - FIRST FLOOR
T296-TD-011	T296 - TELECOM DEMOLITION PLANS
T296-TN-010	T296 - TELECOM DISTANCE ASSESSMENT
T296-TN-011	T296 - TELECOM REMODEL PLANS
TJ-001	EXISTING TELECOMM RACK ELEVATIONS
TJ-002	EXISTING TELECOMM RACK ELEVATIONS
TJ-003	EXISTING TELECOMM RACK ELEVATIONS
TJ-004	TELECOMM CABLE DEMOLITION SCHEDULES
TJ-005	TELECOMM CABLE DEMOLITION SCHEDULES
TJ-006	TELECOMM CABLE DEMOLITION SCHEDULES
TJ-007	TELECOMM CABLE DEMOLITION SCHEDULES
TJ-008	TELECOMM CABLE DEMOLITION SCHEDULES
TJ-009	TELECOMM CABLE DEMOLITION SCHEDULES
TJ-010	TELECOMM CABLE DEMOLITION SCHEDULES
TJ-011	FIBER ONE LINE DIAGRAM
TJ-012	COPPER ONE LINE DIAGRAM
TJ-013	TELECOMM CABINET ELEVATIONS - MDA and ER
TJ-014	TELECOMM CABINET ELEVATIONS - HDA
TJ-015	MCR MDA HDA CABLE ONE LINE
TJ-016	TELECOMM DETAILS
TJ-017	TELECOMM DETAILS
TJ-018	TELECOMM DETAILS
TJ-019	TELECOMM MCR CABINET DETAILS
TJ-020	TELECOMM J-HOOK DETAILS
TJ-021	TELECOMM BONDING DETAILS
TJ-022	TELECOMM BONDING DETAILS
TJ-023	TELECOMM BONDING DETAILS
TJ-024	TELECOMM BONDING DETAILS
TJ-025	TELECOMM BONDING DETAILS
TJ-026	TELECOMM RACK ELEVATIONS
TJ-027	TELECOMM RACK ELEVATIONS
TJ-028	TELECOMM RACK ELEVATIONS
TJ-029	TELECOMM CABLE SCHEDULES
TJ-030	TELECOMM CABLE SCHEDULES

VOLUME 3

GENERAL INFORMATION

SHEET NO.	SHEET NAME
00-GI-000.V3	COVER AND PROJECT GENERAL INFORMATION - VOLUME 3
00-GI-001.V3	DRAWING INDEX - VOLUME 3

ELECTRICAL

SHEET NO.	SHEET NAME
000-EG-001	LEGEND, ABBREVIATION LIST, AND GENERAL NOTES
000-ES-001	POWER SITE PLAN
040-ED-011	ELECTRICAL DEMOLITION PLAN - FIRST FLOOR
040-EP-011	ELECTRICAL REMODEL PLAN - FIRST FLOOR
046-ED-0B1	ELECTRICAL DEMOLITION PLAN - BASEMENT
046-EP-0B1	ELECTRICAL REMODEL PLAN - BASEMENT
048-ED-0B1	ELECTRICAL DEMOLITION PLAN
048-EP-0B1	ELECTRICAL REMODEL PLANS
050-ED-011	ELECTRICAL DEMOLITION PLAN
050-EP-011	ELECTRICAL REMODEL PLAN
053-ED-0B1	ELECTRICAL DEMOLITION PLANS
053-EP-0B1	ELECTRICAL REMODEL PLAN - BASEMENT AND FIRST FLOOR
053-EP-021	ELECTRICAL REMODEL PLAN - SECOND FLOOR AND ATTIC
088-ED-011	ELECTRICAL DEMOLITION PLAN
088-EP-011	ELECTRICAL REMODEL PLAN
089-ED-011	ELECTRICAL DEMOLITION PLAN
089-EP-011	ELECTRICAL REMODEL PLAN
090-ED-011	ELECTRICAL DEMOLITION PLAN
090-EP-011	ELECTRICAL REMODEL PLAN
110-ED-011	ELECTRICAL DEMOLITION PLAN - FIRST FLOOR
110-EP-011	ELECTRICAL REMODEL PLAN - FIRST FLOOR
113-ED-001	ELECTRICAL DEMOLITION PLAN - BASEMENT LAYOUT
113-ED-011	ELECTRICAL DEMOLITION PLAN - FIRST FLOOR LAYOUT
113-ED-012	ELECTRICAL DEMOLITION PLAN - 1ST FLOOR ENLARGED PLANS
113-ED-021	ELECTRICAL DEMOLITION PLAN - SECOND FLOOR LAYOUT
113-EP-001	ELECTRICAL REMODEL PLAN - BASEMENT LAYOUT
113-EP-011	ELECTRICAL REMODEL PLAN - FIRST FLOOR LAYOUT
113-EP-012	ELECTRICAL REMODEL PLAN - FIRST FLOOR ENLARGED PLANS
113-EP-021	ELECTRICAL REMODEL PLAN - SECOND FLOOR LAYOUT
137-ED-011	ELECTRICAL DEMOLITION PLANS
137-EP-011	ELECTRICAL REMODEL PLANS
145-ED-011	ELECTRICAL DEMOLITION PLAN - FIRST FLOOR
145-ED-012	ELECTRICAL DEMOLITION PLAN - FIRST FLOOR ENLARGED ROOMS
145-ED-021	ELECTRICAL DEMOLITION PLAN - SECOND & THIRD FLOORS
145-EP-011	ELECTRICAL REMODEL PLAN - FIRST FLOOR
145-EP-012	ELECTRICAL REMODEL PLAN - FIRST FLOOR ENLARGED PLANS
145-EP-013	ELECTRICAL REMODEL PLAN - FIRST FLOOR ENLARGED PLANS
145-EP-021	ELECTRICAL REMODEL PLAN - SECOND & THIRD FLOORS
145-EP-100	DATA CENTER ELECTRICAL DETAILS
146-ED-011	ELECTRICAL DEMOLITION PLAN - FIRST FLOOR
146-EP-011	ELECTRICAL REMODEL PLAN - FIRST FLOOR
147-ED-011	ELECTRICAL DEMOLITION PLAN - FIRST FLOOR
147-EP-011	ELECTRICAL REMODEL PLAN - FIRST FLOOR
148-ED-011	ELECTRICAL DEMOLITION PLAN - FIRST FLOOR
148-ED-012	ELECTRICAL DEMOLITION PLAN - ENLARGED ROOMS
148-EP-011	ELECTRICAL REMODEL PLAN - FIRST FLOOR
148-EP-012	ELECTRICAL REMODEL PLAN - ENLARGED ROOMS
T171-ED-011	ELECTRICAL DEMOLITION PLAN - FIRST FLOOR
T171-EP-011	ELECTRICAL REMODEL PLAN - FIRST FLOOR
T296-ED-011	ELECTRICAL DEMOLITION PLAN - FIRST FLOOR
T296-EP-011	ELECTRICAL REMODEL PLAN - FIRST FLOOR
000-EK-001	POWER AND ELEVATION SCHEMATIC FOR TR RACK
000-EK-002	POWER AND ELEVATION SCHEMATIC FOR TR RACK
040-EJ-001	BUILDING 40 ELECTRICAL ONE-LINE DIAGRAM & PANEL SCHED
046-EJ-001	BUILDING 46 ELECTRICAL ONE-LINE DIAGRAM & PANEL SCHED
048-EJ-001	BUILDING 48 ELECTRICAL ONE-LINE DIAGRAM & PANEL SCHED
050-EJ-001	BUILDING 50 ELECTRICAL ONE-LINE DIAGRAM & PANEL SCHED
053-EJ-001	BUILDING 53 ELECTRICAL ONE-LINE DIAGRAM & PANEL SCHED
088-EJ-001	BUILDING 88 ELECTRICAL ONE-LINE DIAGRAM & PANEL SCHED
089-EJ-001	BUILDING 89 ELECTRICAL ONE-LINE DIAGRAM & PANEL SCHED
090-EJ-001	BUILDING 90 ELECTRICAL ONE-LINE DIAGRAM & PANEL SCHED
110-EJ-001	BUILDING 110 ELECTRICAL ONE-LINE DIAGRAM & PANEL SCHED
113-EJ-001	BUILDING 113 ELECTRICAL ONE-LINE DIAGRAM
113-EJ-002	BUILDING 113 ELECTRICAL PANEL SCHEDULES
137-EJ-001	BUILDING 137 ELECTRICAL ONE-LINE DIAGRAM & PANEL SCHED

VOLUME 3 (*Continued*)

ELECTRICAL (*Continued*)

145-EJ-001	BUILDING 145 ELECTRICAL ONE-LINE DIAGRAM
145-EJ-002	BUILDING 145 ELECTRICAL ONE-LINE DIAGRAM
145-EJ-003	BUILDING 145 ELECTRICAL PANEL SCHEDULES
145-EJ-004	BUILDING 145 ELECTRICAL PANEL SCHEDULES
146-EJ-001	BUILDING 146 ELECTRICAL ONE-LINE DIAGRAM & PANEL SCHED
147-EJ-001	BUILDING 145 ELECTRICAL ONE-LINE DIAGRAM & PANEL SCHED
148-EJ-001	BUILDING 148 ELECTRICAL ONE-LINE-DIAGRAM & PANEL SCHED
T171-EJ-001	BUILDING T171 ELECTRICAL ONE-LINE-DIAGRAM & PANEL SCHED
T296-EJ-001	BUILDING T296 ELECTRICAL ONE-LINE DIAGRAM & PANEL SCHED

FIRE PROTECTION

SHEET NO.	SHEET NAME
00-FP-001	FIRE PROTECTION GENERAL GDM NOTES, DIAGRAM, AND LEGEND
00-FP-002	FIRE EXTINGUISHER SIGNAGE REQUIREMENTS
MCR-FP-101	MCR FIRE ALARM FLOOR PLAN
MCR-FP-102	FIRE BARRIER PLAN – MCR
MCR-FP-103	FIRE SPRINKLER HAZARD CLASSIFICATION PLAN – MCR
MCR-FP-104	CLEAN AGENT PLAN - MCR
MCR-FP-105	HYDRANT FLOW TEST INFORMATION

FEEDER SCHEDULE

1ϕ,2W+G (3 WIRES TOTAL)			3ϕ, 4W+G (5 WIRES TOTAL)		
CKT ID	RACEWAY/WIRE	CKT...	CKT ID	CONDUIT AND WIRE	CKT...
[12-20]	3/4"C, 2#12, #12G	20	[34-20]	3/4"C, 4#12, #12G	20
[12-30]	3/4"C, 2#10, #10G	30	[34-20N]	3/4"C, 3#12, 1#10N, #12G	20
[12-40]	3/4"C, 2#8, #10G	40	[34-30]	3/4"C, 4#10, #10G	30
[12-50]	3/4"C, 2#6, #10G	50	[34-30N]	3/4"C, 3#10, 1#8N, #10G	30
[12-60]	1"C, 2#4, #10G	60	[34-40]	1"C, 4#8, #10G	40
[12-70]	1"C, 2#4, #8G	70	[34-50]	1"C, 4#6, #10G	50
[12-80]	1-1/4"C, 2#2, #8G	80	[34-60]	1-1/4"C, 4#4, #10G	60
[12-90]	1-1/4"C, 2#2, #8G	90	[34-60N]	1-1/4"C, 3#4, 1#3N, #10G	60
[12-100]	1-1/4"C, 2#1, #8G	100	[34-70]	1-1/4"C, 4#4, #8G	70
[12-125]	1-1/4"C, 2#1, #6G	125	[34-80]	1-1/2"C, 4#2, #8G	80
[12-150]	1-1/4"C, 2#1/0, #6G	150	[34-90]	1-1/2"C, 4#2, #8G	90
[12-175]	1-1/2"C, 2#2/0, #6G	175	[34-100]	2"C, 4#1, #8G	100
[12-200]	1-1/2"C, 2#3/0, #6G	200	[34-100N]	2"C, 3#1, 1#1/0N, #8G	100
[12-225]	2"C, 2#4/0, #4G	225	[34-125]	2"C, 4#1, #6G	125
[12-250]	2-1/2"C, 2-250KCM, #4G	250	[34-150]	2"C, 4#1/0, #6G	150
[12-300]	2-1/2"C, 2-350KCM, #4G	300	[34-150N]	2"C, 3#1/0, 1#2/0N, #6G	150
[12-400]	2-SETS [2"C, 2#3/0, #3G]	400	[34-175]	2"C, 4#2/0, #6G	175
1ϕ, 3W+G (4 WIRES TOTAL)			[34-200]	2"C, 4#3/0, #6G	200
[13-100]	2"C, 4#1, #8G	100	[34-200N]	2-1/2"C, 3#3/0, 1#4/0N, #6G	200
[13-100N]	2"C, 3#1, 1#1/0N, #8G	100	[34-225]	2-1/2"C, 4#4/0, #4G	225
[13-150]	2"C, 4#1/0, #6G	150	[34-250]	3"C, 4-250KCM, #4G	250
[13-150N]	2"C, 3#1/0, 1#2/0N, #6G	150	[34-300]	3"C, 4-350KCM, #4G	300
[13-200]	2"C, 4#3/0, #6G	200	[34-400]	2-SETS [2-1/2"C, 4#3/0, #3G]	400
[13-200N]	2-1/2"C, 3#3/0, 1#4/0N, #6G	200	[34-400N]	2-SETS [2-1/2"C, 3#3/0, 1#4/0N, #3G]	400
			[34-500]	2-SETS [3"C, 4-250KCM, #2G]	500
			[34-600]	2-SETS [3"C, 4-350KCM, #1G]	600
			[34-700]	2-SETS [4"C, 4-500KCM, #1/0G]	700
			[34-800]	3-SETS [3"C, 4-300KCM, #1/0G]	800
3ϕ, 3W+G (4 WIRES TOTAL)			[34-1000]	3-SETS [4"C, 4-500KCM, #2/0G]	1000
CKT ID	CONDUIT AND WIRE	CKT...	[34-1200]	4-SETS [3"C, 4-350KCM, #3/0G]	1200
[33-20]	3/4"C, 3#12, #12G	20	[34-1600]	4-SETS [4"C, 4-600KCM, #4/0G]	1600
[33-30]	3/4"C, 3#10, #10G	30	[34-2000]	5-SETS [4"C, 4-600KCM, 250KCM G]	2000
[33-40]	3/4"C, 3#8, #10G	40	480VΔ, 3ϕ, TRANSFORMER PRIMARY (3W+G)		
[33-50]	1"C, 3#6, #10G	50	CKT ID	CONDUIT AND WIRE	CKT...
[33-60]	1"C, 3#4, #10G	60	[15H]	3/4"C, 3#10, #10G	30
[33-70]	1-1/4"C, 3#4, #8G	70	[30H]	1"C, 3#4, #10G	60
[33-80]	1-1/4"C, 3#2, #8G	80	[45H]	1-1/2"C, 3#1, #8G	100
[33-90]	1-1/4"C, 3#2, #8G	90	[75H]	1-1/2"C, 3#1/0, #6G	150
[33-100]	1-1/2"C, 3#1, #8G	100	[112H]	2"C, 3#3/0, #6G	200
[33-125]	1-1/2"C, 3#1, #6G	125	[150H]	2-1/2"C, 3-250KCM, #4G	250
[33-150]	1-1/2"C, 3#1/0, #6G	150	[225H]	2-SETS [2"C, 3#3/0, #3G]	400
[33-175]	2"C, 3#2/0, #6G	175	[300H]	2-SETS [3"C, 3-350KCM, #1G]	600
[33-200]	2"C, 3#3/0, #6G	200	[500H]	3-SETS [3"C, 3-300KCM, #1/0G]	800
[33-225]	2"C, 3#4/0, #4G	225	208Y/120V, 3ϕ, TRANSFORMER SECONDARY (4W+G)		
[33-250]	2-1/2"C, 3-250KCM, #4G	250	CKT ID	CONDUIT AND WIRE	CKT...
[33-300]	2-1/2"C, 3-350KCM, #4G	300	[15L]	1-1/4"C, 4#4, #10G	60
[33-400]	2-SETS [2"C, 3#3/0, #3G]	400	[30L]	2"C, 4#1, #6G	100
[33-500]	2-SETS [2-1/2"C, 3-250KCM, #2G]	500	[45L]	2"C, 4#1/0, #6G	150
[33-600]	2-SETS [3"C, 3-350KCM, #1G]	600	[75L]	2-1/2"C, 4#4/0, #2G	225
[33-700]	2-SETS [3"C, 3-500KCM, #1/0G]	700	[112L]	2-SETS [2-1/2"C, 4#3/0, #1/0G]	400
[33-800]	3-SETS [3"C, 3-300KCM, #1/0G]	800	[150L]	2-SETS [3"C, 4-350KCM, #2/0G]	600
[33-1000]	3-SETS [3"C, 3-500KCM, #2/0G]	1000	[225L]	3-SETS [3"C, 4-300KCM, #2/0G]	800
[33-1200]	4-SETS [3"C, 3-350KCM, #3/0G]	1200	[300L]	3-SETS [4"C, 4-500KCM, #3/0G]	1000
[33-1600]	4-SETS [4"C, 3-600KCM, #4/0G]	1600	[500L]	4-SETS [4"C, 4-600KCM, #4/0G]	1600
[33-2000]	5-SETS [4"C, 3-600KCM, 250KCM G]	2000	[750L]	6-SETS [4"C, 4-600KCM, 250KCM G]	2500

SYMBOL LEGEND

SYMBOL	DESCRIPTION
AHU-01	EQUIPMENT CALLOUT.
	HOME RUN
	CONDUIT CONCEALED IN GROUND OR FLOOR
	CONDUIT CONCEALED IN CEILING OR WALL
	CONDUIT DOWN
	CONDUIT UP
	EQUIPMENT CONNECTION, SEE EQUIPMENT CONNECTION SCHEDULES FOR SPECIFIC REQUIREMENTS.
	SPECIAL PURPOSE RECEPTACLE
	SPECIAL EQUIPMENT CONNECTION
A	DUPLEX RECEPTACLE, GFCI TYPE, A = ABOVE COUNTER, E = EMERGENCY, IG = ISOLATED GROUND.
	4 PLEX RECEPTACLE
A	4 PLEX RECEPTACLE, GFCI TYPE, A = ABOVE COUNTER, E = EMERGENCY, IG = ISOLATED GROUND.
A	DUPLEX RECEPTACLE, A = ABOVE COUNTER
A	DUPLEX RECEPTACLE, ISOLATED GROUND TYPE, A = ABOVE COUNTER, E = EMERGENCY
	FLUSH FLOOR BOX WITH DEVICES AS INDICATED
J	CODE SIZED JUNCTION BOX WITH COVER PLATE
	DISCONNECT SWITCH
F	FUSED DISCONNECT SWITCH
	LIGHTING OR POWER PANEL
K	KIRK KEY INTERLOCK
GAP	GENERATOR ANNUNCIATOR PANEL
	MOTOR CONNECTION
$	SINGLE-POLE SWITCH
LV $	LOW-VOLTAGE SWITCH
OC $	WALL MOUNT OCCUPANCY SENSOR SWITCH
	LIGHT FIXTURE, SEE SCHEDULE FOR TYPE
	LIGHT FIXTURE, SEE SCHEDULE FOR TYPE
	CEILING STRIP LIGHT FIXTURE, SEE SCHEDULE FOR TYPE
	LIGHT FIXTURE, SHADING INDICATES EMERGENCY BATTERY BACKUP
	WALL MOUNTED LIGHT, SEE SCHEDULE FOR TYPE
	EXIT LIGHT, SHADING INDICATES SIGN DIRECTION
	EXIT LIGHT WITH ARROWS, SHADING INDICATES SIGN DIRECTION
	SITE PLAN OVERHEAD POWER LINE
	SITE PLAN PRIMARY UNDERGROUND ELECTRICAL DUCT
	SITE PLAN EXISTING UNDERGROUND ELECTRICAL DUCT
T	SITE PLAN PAD-MOUNTED TRANSFORMER
S	SITE PLAN LOOP FEED PAD-MOUNTED OIL SWITCH
P	SITE PLAN POWER POLE
ATS	AUTOMATIC TRANSFER SWITCH
G	GENERATOR
(E)MH-#X	EXISTING MANHOLE
(N)MH-#X	NEW MANHOLE
WAP C	TELECOMMUNICATIONS OUTLET, WIRELESS ACCESS POINT
# C	TELECOMMUNICATIONS OUTLET, SUBNUMBER=QUANTITY OF DROPS
	TELECOMMUNICATIONS OUTLET, VOICE ONLY
CR	SECURITY SYSTEM CARD READER/KEYPAD
# C	TELECOMM OUTLET MOUNTED IN FLOORBOX.
XXX-X-XX-PX	TYPICAL TELECOMM OUTLET IDENTIFIERS: TR ROOM, RACK NUMBER, PATCH PANEL LOCATON (RU#), PORT NUMBER
REX	EXISTING REQUEST TO EXIT
S	PAGING SYSTEM SPEAKER
IS	INERGEN SYSTEM SMOKE DETECTOR
IH	INERGEN SYSTEM HEAD
SD	FIRE ALARM SMOKE DETECTOR
	FIRE ALARM STROBE LIGHT
	CAMERA

ABBREVIATION LIST

A, AMP	AMPERE
ACP	ACCESSIBLE CARD PATH
ADA	AMERICAN DISABILITY ACT
AF	AMP FRAME
AFC	AVAILABLE FAULT CURRENT
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
AG	ABOVE GROUND
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AL	ALUMINUM
BCT	BONDING CONDUCTOR FOR TLECOMMUNICATIONS
BKR	BREAKER
C	CONDUIT
CKT	CIRCUIT
CO	CONDUIT AND PULL-ROPE ONLY
COMM	COMMUNICATION
CTRL	CONTROL
CU	COPPER
(E)	EXISTING
EC, E.C.	ELECTRICAL CONTRACTOR
ELEC	ELECTRICAL
EM	EMERGENCY
EQPT	EQUIPMENT
(F)	FUTURE
FA	FIRE ALARM
FDR	FEEDER
G, GND	GROUND
GC, G.C.	GENERAL CONTRACTOR
HH	HANDHOLE
IDF	INTERMEDIATE DISTRIBUTION FRAME
J-BOX	JUNCTION BOX
LCP	LIGHTING CONTROL PANEL
LIU	LINE INTERFACE UNIT
LTG	LIGHTING
LTS	LIGHTS
LV	LOW-VOLTAGE
MH	MANHOLE
MM	MULTI-MODE
N	NEUTRAL
NEC	NATIONAL ELECTRICAL CODE
OC	ON-CENTER
OFCI	OWNER-FURNISHED CONTRACTOR-INSTALLED
OFOI	OWNER-FURNISHED OWNER-INSTALLED
OL	OVERLOAD
P	POLE
PB	PULLBOX, PUSHBUTTON
POS	POINT OF SERVICE
PRI	PRIMARY
(G)	REVISED
REF	REFERENCE, REFRIGERATOR
SEC	SECONDARY
SM	SINGLE-MODE
SOW	SCOPE OF WORK
SPECS	SPECIFICATIONS
SS	STAINLESS STEEL
SW	SWITCH
TEL	TELEPHONE
TC	TELECOMMUNICATION
TGB	TELECOMMUNICATIONS BUS BAR
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUS BAR
THRU	THROUGH
(TYP)	TYPICAL
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
VLT	VAULT
W	WIRE, WATT
WP	WEATHERPROOF
(X)	EXISTING TO BE REMOVED

GENERAL REQUIREMENTS

1. PROVIDE COMPLETE WORK FOR REQUIREMENTS AS DESCRIBED ON LEGEND.

2. ALL FLUSH MOUNT EQUIPMENT, CABINETS, AND PANELBOARDS SHALL HAVE FACTORY TYPE FLUSH MOUNT TRIM KIT FOR COMPLETE INSTALLATION.

3. PROVIDE ALL MATERIAL AND LABOR RELATED TO THE INSTALLATION OF ELECTRICAL DEVICES PENETRATING INTO OR THROUGH FIRE RATED WALLS, FLOORS, OR CEILINGS SUCH THAT THE FIRE RATING OF THE WALL IS MAINTAINED.

4. DO NOT TAKE MEASUREMENTS FROM PLANS FOR DEVICE LOCATIONS. FIELD VERIFY EXACT DEVICE, EQUIPMENT LOCATIONS, AND MOUNTING HEIGHTS WITH OWNER'S REPRESENTATIVE FOR PROPER INSTALLATION.

5. BRANCH CIRCUIT HOME RUNS ARE NOT INDICATED WITH NUMBER OF CONDUCTORS/ WIRES. PROVIDE ALL BRANCH CIRCUIT CONDUCTORS/ WIRES AS REQUIRED FOR COMPLETE OPERATION OF ALL DEVICES AND EQUIPMENT INDICATED. PROVIDE INDIVIDUAL NEUTRALS FOR EACH CIRCUIT.

6. REFER TO EQUIPMENT SCHEDULES FOR WIRING REQUIREMENTS NOT INDICATED ON POWER PLANS.

7. PROVIDE ALL WIRING TO PANELS AND POWER DISTRIBUTION EQUIPMENT IN ACCORDANCE WITH ONE-LINE POWER DIAGRAM.

8. INCLUDE COST OF PROVIDING ALL ELECTRICAL CONNECTIONS AS REQUIRED FOR FULL OPERATION OF ALL OWNER FURNISHED, CONTRACTOR INSTALLED EQUIPMENT. SEE ARCHITECTURAL DRAWINGS TO VERIFY LOCATIONS.

9. COORDINATE PAINTING WORK OF ELECTRICAL ITEMS WITH GENERAL CONTRACTOR. SEE PAINTING SPECIFICATIONS FOR REQUIREMENTS.

10. PROVIDE SEPARATE NEUTRALS FOR ALL BRANCH CIRCUITS.

11. WIRING SYSTEMS SHALL BE CONCEALED WHERE POSSIBLE, EXCEPT IN ELECTRICAL ROOM, MECHANICAL ROOM, AND UTILITY AREAS, OR AS OTHERWISE NOTED.

12. PROVIDE SURFACE METAL RACEWAY AS WIRING METHOD WHERE OUTLETS AND WIRING CANNOT BE CONCEALED.

13. EXTERIOR MOUNTED ELECTRICAL DEVICES (SUCH AS DISCONNECT SWITCH, STARTER, SPEAKER, FIRE ALARM HORN, ETC.) AND COVERS SHALL BE NEMA-3R WEATHERPROOF RATED.

14. PROVIDE CONDUIT AND WIRE FROM ALL HVAC UNITS 2000 CFM OR ABOVE TO FIRE ALARM PANEL FOR HVAC UNIT CONTROL. CONDUIT AND WIRE MAY NOT BE INDICATED IN ELECTRICAL DRAWINGS.

15. PROVIDE TEMPORARY POWER FOR CONSTRUCTION. TEMPORARY POWER MAY BE IN THE FORM OF PORTABLE GENERATOR SET; CONNECTION TO UTILITIES COMPANY'S POWER POLE OR EXISTING FACILITY'S ELECTRICAL SYSTEM.

16. VERIFY WITH CABINET INSTALLER FOR ALL CABINET LOCATIONS, DIMENSIONS, AND COUNTER HEIGHTS PRIOR TO OUTLET ROUGH-IN. OUTLETS LOCATED ABOVE COUNTER SHALL BE INSTALLED TO CENTERLINE ABOVE COUNTERTOP BACKSPLASH, AS DIRECTED OR INDICATED IN SPECIFICATIONS. VERIFY HEIGHT WITH OWNER'S REPRESENTATIVE OF ANY LOCATION THAT CANNOT ACCOMMODATE MOUNTING HEIGHT.

17. INSTALLATION OF UNDERGROUND WIRING SYSTEMS SHALL INCLUDE EXCAVATION, CUTTING, PATCHING, BACKFILL, AND COMPACTION. DO NOT CUT OR DAMAGE ANY EXISTING UTILITIES, STRUCTURAL MEMBERS, OR BUILDING FOUNDATIONS. VERIFY EXISTING CONDITIONS PRIOR TO EXCAVATION WORK. INCLUDE COST FOR UNDERGROUND LOCATOR SERVICE TO IDENTIFY LOCATIONS OF EXISTING COMPONENTS. HAND EXCAVATE IN LOCATIONS WHERE EXISTING UNDERGROUND COMPONENTS ARE SUBJECT TO DAMAGE. REPAIR DAMAGE TO EXISTING UTILITIES OR BUILDING STRUCTURE TO OWNER'S SATISFACTION AT THE CONTRACTORS EXPENSE.

18. ALL ONE-LINE DIAGRAMS AND RACEWAY ROUTING ARE SCHEMATIC AND DO NOT SHOW EXACT PHYSICAL ARRANGEMENT OF EQUIPMENT ON DRAWINGS. ALL JUNCTION BOXES, AND PULLBOXES SHOWN ARE MINIMUM REQUIREMENTS. PROVIDE FITTINGS AND PULLBOXES OF ADEQUATE SIZE IN RACEWAY SYSTEMS WHEREVER NECESSARY OR REQUIRED BY NATIONAL ELECTRICAL CODE. PROVIDE EXPANSION JOINT FITTINGS FOR RACEWAY PASSING THROUGH NEW OR EXISTING EXPANSION JOINTS INSTALLED BETWEEN BUILDINGS. VERIFY EXACT LOCATIONS AND DETAILS OF EXPANSION JOINTS PRIOR TO WORK. COORDINATE ALL RACEWAY ROUTING, PULLBOXES, AND EQUIPMENT LOCATIONS WITH OTHER TRADES TO AVOID CONFLICTS OF EQUIPMENT INSTALLATIONS. ALL EMPTY CONDUITS SHALL HAVE PULL WIRES.

19. CONDUIT OR OTHER ELECTRICAL COMPONENTS SHALL NOT BE INSTALLED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS OR APPROVED BY STRUCTURAL ENGINEER.

20. PROVIDE ELECTRICAL CONNECTION FOR ALL FAN SPEED SWITCHES. COORDINATE LOCATION OF CONNECTIONS WITH MECHANICAL CONTRACTOR.

GENERAL REQUIREMENTS - CONT.

21. CONTRACTOR SHALL BE RESPONSIBLE TO TEMPORARILY MOVE AND RETURN FURNITURE, FIXTURES, AND EQUIPMENT WITHIN SPACES AS REQUIRED TO COMPLETE EACH DAY'S WORK. THE VA WILL REMOVE, OR SECURE, PHI, PPI, AND PERSONAL PROPERTY. COORDINATE THIS WORK WITH THE COR.

22. PARTICULAR ATTENTION SHALL BE GIVEN TO THE PROTECTION OF EXISTING STRUCTURE AND FINISHES TO PREVENT ANY DAMAGE OF EXISTING FINISHES. ANY ACCIDENTAL DAMAGE INCURRED TO EXISTING CONDITIONS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR OR CORRECT.

23. COORDINATE ALL ELECTRICAL WORK WITH OTHER TRADES TO INSURE PROPER AND ADEQUATE INTERFACE OF THEIR WORK WITH THE WORK SHOWN ON THESE DOCUMENTS. CONTRACTOR SHALL PROVIDE COORDINATED SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION AND INSTALLATION.

Revisions:	Date:

CONSULTANT

ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD

A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT
VA U.S. Department of Veterans Affairs

DRAWING TITLE: LEGEND, ABBREVIATIONS, AND GENERAL REQUIREMENTS
APPROVED: Project Director
FOR OFFICIAL USE ONLY (FOUO)

PHASE: 100% CONSTRUCTION DOCUMENTS
FLS: FULLY SPRINKLERED

PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES
LOCATION: FORT MEADE, SOUTH DAKOTA
ISSUE DATE: 11/05/2024 | CHECKED BY: MER | DRAWN BY: AJW

PROJECT NUMBER: 568-21-701
BUILDING NUMBER: ---
DRAWING NUMBER: 000-EG-001

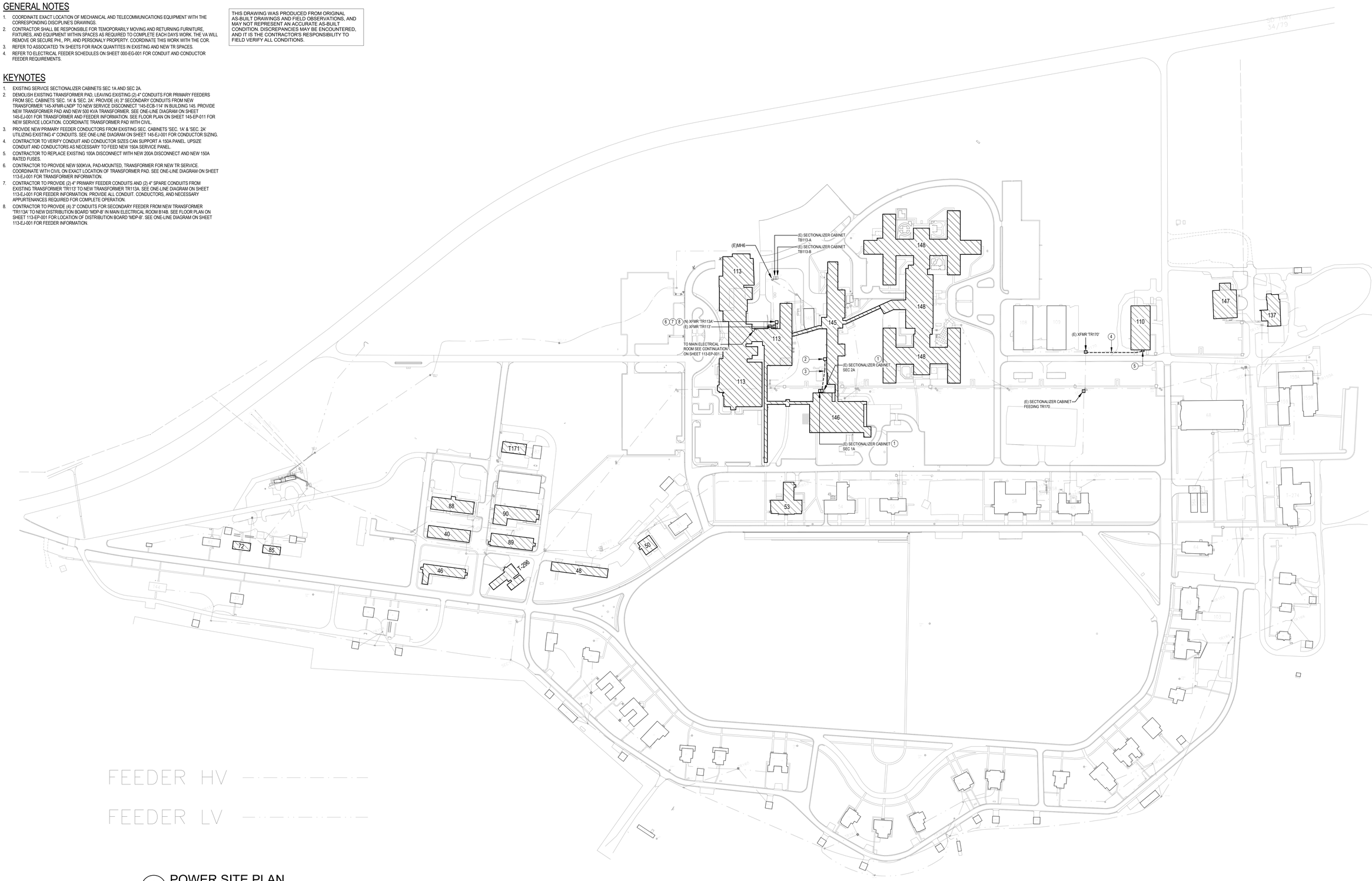
GENERAL NOTES

1. COORDINATE EXACT LOCATION OF MECHANICAL AND TELECOMMUNICATIONS EQUIPMENT WITH THE CORRESPONDING DISCIPLINE'S DRAWINGS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMOPORARILY MOVING AND RETURNING FURNITURE, FIXTURES, AND EQUIPMENT WITHIN SPACES AS REQUIRED TO COMPLETE EACH DAYS WORK. THE VA WILL REMOVE OR SECURE PHI, PPI, AND PERSONALY PROPERTY. COORDINATE THIS WORK WITH THE COR.
3. REFER TO ASSOCIATED TN SHEETS FOR RACK QUANTITES IN EXISTING AND NEW TR SPACES.
4. REFER TO ELECTRICAL FEEDER SCHEDULES ON SHEET 000-EG-001 FOR CONDUIT AND CONDUCTOR FEEDER REQUIREMENTS.

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

KEYNOTES

1. EXISTING SERVICE SECTIONALIZER CABINETS SEC 1A AND SEC 2A.
2. DEMOLISH EXISTING TRANSFORMER PAD, LEAVING EXISTING (2) 4" CONDUITS FOR PRIMARY FEEDERS FROM SEC. CABINETS 'SEC. 1A' & 'SEC. 2A'. PROVIDE (4) 3" SECONDARY CONDUITS FROM NEW TRANSFORMER '145-XFMR-LNDP' TO NEW SERVICE DISCONNECT '145-ECB-114' IN BUILDING 145. PROVIDE NEW TRANSFORMER PAD AND NEW 500 KVA TRANSFORMER. SEE ONE-LINE DIAGRAM ON SHEET 145-EJ-001 FOR TRANSFORMER AND FEEDER INFORMATION. SEE FLOOR PLAN ON SHEET 145-EP-011 FOR NEW SERVICE LOCATION. COORDINATE TRANSFORMER PAD WITH CIVIL.
3. PROVIDE NEW PRIMARY FEEDER CONDUCTORS FROM EXISTING SEC. CABINETS 'SEC. 1A' & 'SEC. 2A' UTILIZING EXISTING 4" CONDUITS. SEE ONE-LINE DIAGRAM ON SHEET 145-EJ-001 FOR CONDUCTOR SIZING.
4. CONTRACTOR TO VERIFY CONDUIT AND CONDUCTOR SIZES CAN SUPPORT A 150A PANEL. UPSIZE CONDUIT AND CONDUCTORS AS NECESSARY TO FEED NEW 150A SERVICE PANEL.
5. CONTRACTOR TO REPLACE EXISTING 100A DISCONNECT WITH NEW 200A DISCONNECT AND NEW 150A RATED FUSES.
6. CONTRACTOR TO PROVIDE NEW 500KVA, PAD-MOUNTED, TRANSFORMER FOR NEW TR SERVICE. COORDINATE WITH CIVIL ON EXACT LOCATION OF TRANSFORMER PAD. SEE ONE-LINE DIAGRAM ON SHEET 113-EJ-001 FOR TRANSFORMER INFORMATION.
7. CONTRACTOR TO PROVIDE (2) 4" PRIMARY FEEDER CONDUITS AND (2) 4" SPARE CONDUITS FROM EXISTING TRANSFORMER 'TR113' TO NEW TRANSFORMER TR113A. SEE ONE-LINE DIAGRAM ON SHEET 113-EJ-001 FOR FEEDER INFORMATION. PROVIDE ALL CONDUIT. CONDUCTORS, AND NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION.
8. CONTRACTOR TO PROVIDE (4) 3" CONDUITS FOR SECONDARY FEEDER FROM NEW TRANSFORMER 'TR113A' TO NEW DISTRIBUTION BOARD 'MDP-B' IN MAIN ELECTRICAL ROOM B14B. SEE FLOOR PLAN ON SHEET 113-EP-001 FOR LOCATION OF DISTRIBUTION BOARD 'MDP-B'. SEE ONE-LINE DIAGRAM ON SHEET 113-EJ-001 FOR FEEDER INFORMATION.



1 POWER SITE PLAN
NOT TO SCALE

Revisions:	Date:

CONSULTANT
ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD
A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP
EDWARD GODDIN — STATE OF WASHINGTON — 83179 — REGISTERED PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT
VA U.S. Department of Veterans Affairs

DRAWING TITLE: POWER SITE PLAN
PHASE: 100% CONSTRUCTION DOCUMENTS
PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES
PROJECT NUMBER: 568-21-701
BUILDING NUMBER: ---
APPROVED: Project Director
FLS: FULLY SPRINKLERED
LOCATION: FORT MEADE, SOUTH DAKOTA
ISSUE DATE: 11/05/2024
CHECKED BY: MER
DRAWN BY: AJW
DRAWING NUMBER: 000-ES-001

FOR OFFICIAL USE ONLY (FOUO)

VA FORM 08 - 6231

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

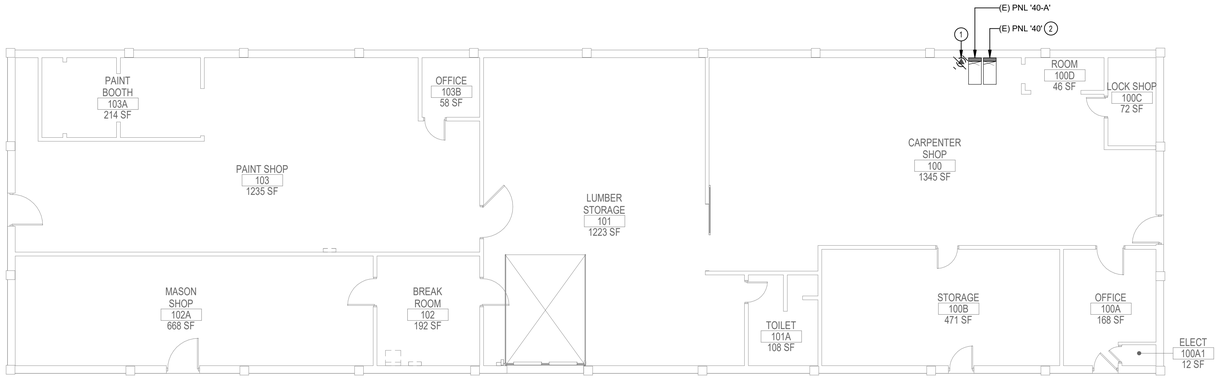
GENERAL DEMOLITION NOTES

1. CONTRACTOR SHALL COORDINATE ALL OUTAGES WITH THE COR PRIOR TO BEGINNING WORK. GREAT CARE SHALL BE TAKEN TO MINIMIZE OUTAGE DURATION TO SHORTEST EXTENT POSSIBLE. NO DEMOLITION SHALL OCCUR ON THE UPS SYSTEM, LIFE SAFETY SYSTEM, TELECOMMUNICATIONS SYSTEM, OR ANY OTHER CRITICAL SYSTEM UNTIL THE NEW/REPLACEMENT SYSTEMS ARE IN PLACE AND READY FOR SWITCHOVER.
2. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM RECORD DRAWINGS AND/OR A NON-DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.
3. THE COR SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS. THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A WAREHOUSE AS DIRECTED BY THE COR. THE CONTRACTOR SHALL DISPOSE OF, OFF SITE, ALL UNWANTED MATERIALS.
4. DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
5. COORDINATE WITH THE OTHER DISCIPLINE DRAWINGS FOR AREAS OF DEMOLITION AND NEW WORK. PROVIDE MINOR RELOCATION OF LIGHT FIXTURES AND DEVICES TO ACCOMMODATE NEW MECHANICAL AND TELECOM EQUIPMENT LOCATIONS.
6. FOR WALL/CEILINGS SCHEDULED TO BE DEMOLISHED, DEMOLISH ALL CONDUIT, WIRE, DEVICES, BOXES, ETC. BACK TO THE EXTENT PRACTICAL TO ACCOMMODATE DEMOLITION. RELOCATE EXISTING LIGHT FIXTURES, DEVICES, CONDUIT, AND WIRE AS REQUIRED. PROVIDE EXTENSION OF CONDUIT AND WIRE AS REQUIRED TO ACCOMMODATE RELOCATED ITEMS.
7. FOR THE RENOVATED TELECOMMUNICATIONS ROOMS WITH NEW PAINTED PLYWOOD WALLS, CONTRACTOR SHALL DISCONNECT AND TEMPORARILY REMOVE ALL ELECTRICAL DEVICES, BOXES, CONDUIT, AND WIRE TO ALLOW FOR PLYWOOD INSTALLATION. REINSTALL ALL DEVICES BACK IN SAME LOCATIONS AND PROVIDE BOX EXTENSIONS, CIRCUIT EXTENSIONS, ETC. AS REQUIRED TO ACCOMMODATE RENOVATION.
8. COORDINATE WITH THE OTHER DISCIPLINE DRAWINGS FOR AREAS OF DEMOLITION AND NEW WORK.
9. LIGHTING AND RECEPTACLES SHALL REMAIN IN EXISTING TELECOM ROOMS. NO DEMOLITION UNLESS OTHERWISE NOTED

KEYNOTES

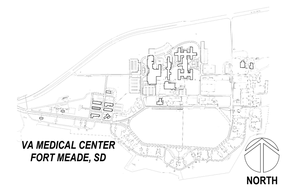
1 EXISTING STARTER TO BE REMOVED TO ALLOW FOR PLACEMENT OF NEW ELECTRICAL PANEL. REROUTE EXISTING BRANCH FEEDER DIRECTLY TO EXISTING CIRCUIT BREAKER. COORDINATE WITH VA ELECTRICIAN PRIOR TO DEMOLITION.

2 EXISTING 20A/1P BREAKERS IN SPACE 2,4,6 FEEDING EXISTING LOADS TO BE DEMOLISHED TO ALLOW SPACE TO SUB-FEED NEW 100A PANEL. FEEDERS TO REMAIN TO BE RE-CIRCUITED TO NEW PANEL.



1 ELECTRICAL DEMOLITION PLAN - BLDG 40 FIRST FLOOR
1/8" = 1'-0"

PROJECT KEY PLAN



VA MEDICAL CENTER
FORT MEADE, SD

NORTH

Revisions:	Date:

CONSULTANT

ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD

A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS - ENGINEERS

STAMP

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: ELECTRICAL DEMOLITION PLAN - FIRST FLOOR	PHASE: 100% CONSTRUCTION DOCUMENTS	PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES	PROJECT NUMBER: 568-21-701
			BUILDING NUMBER: 40
APPROVED: Project Director	FLS	LOCATION: FORT MEADE, SOUTH DAKOTA	DRAWING NUMBER: 040-ED-011
FOR OFFICIAL USE ONLY (FOUO)	FULLY SPRINKLERED	ISSUE DATE: 11/05/2024 / CHECKED BY: MER / DRAWN BY: AJW	

VA FORM 08 - 6231

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

BLDG 40 - EQUIPMENT SCHEDULE

EQUIPMENT TAG	RATED VOLTAGE	VOLTAGE PHASE	HP	KW	FLA	MCA	MOCP	# PARALLEL CONDUCTORS	BRANCH CIRCUIT				DISCONNECT		NOTES
									RACEWAY	PHASE	N	G	SIZE	FUSE	
MECHANICAL EQUIPMENT															
40-IU-1	208	1	-	-	0.3	14.0	15	-	3/4"	2#12	-	#12	-	-	3
40-OU-1	208	1	-	-	-	11.0	15	-	3/4"	2#12	-	#12	30	15	1
TELECOMMUNICATIONS EQUIPMENT															
RK-100A-1A	120	1	-	2.88	24.0	30.0	30	-	3/4"	2#10	-	#10	-	-	2
RK-100A-1B	120	1	-	2.88	24.0	30.0	30	-	3/4"	2#10	-	#10	-	-	2

NOTES
1. PROVIDE NEW DISCONNECT.
2. PROVIDE L5-30 RECEPTACLE.
3. PROVIDE NEW MOTOR-RATED SWITCH.

GENERAL NOTES

1. COORDINATE EXACT LOCATION OF MECHANICAL AND TELECOMMUNICATIONS EQUIPMENT WITH THE CORRESPONDING DISCIPLINE'S DRAWINGS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMOPORARILY MOVING AND RETURNING FURNITURE, FIXTURES, AND EQUIPMENT WITHIN SPACES AS REQUIRED TO COMPLETE EACH DAYS WORK. THE VA WILL REMOVE OR SECURE PHI,, PPI, AND PERSONALY PROPERTY. COORDINATE THIS WORK WITH THE COR.
3. REFER TO ASSOCIATED TN SHEETS FOR RACK QUANTITES IN EXISTING AND NEW TR SPACES.
4. REFER TO ELECTRICAL FEEDER SCHEDULES ON SHEET 000-EG-001 FOR CONDUIT AND CONDUCTOR FEEDER REQUIREMENTS.
5. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
6. CONDUIT ROUTING SHOWN IS SCHEMATIC BY DESIGN. CONTRACTOR SHALL VERIFY FEASIBILITY PRIOR TO INSTALLATION.

KEYNOTES

1 CONTRACTOR TO PROVIDE NEW 208Y/120V, 100A, PANELBOARD. CONTRACTOR TO PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION. REFER TO FEEDER SCHEDULE ON 000-EG-001 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

2 CONTRACTOR TO PROVIDE CONDUIT AND CONDUCTORS FOR NEW OUTDOOR MECHANICAL UNIT. SEE ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.

3 CONTRACTOR TO PROVIDE WET-RATED CONVENIANCE RECEPTACLE. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION AND WEATHER PROTECTION.

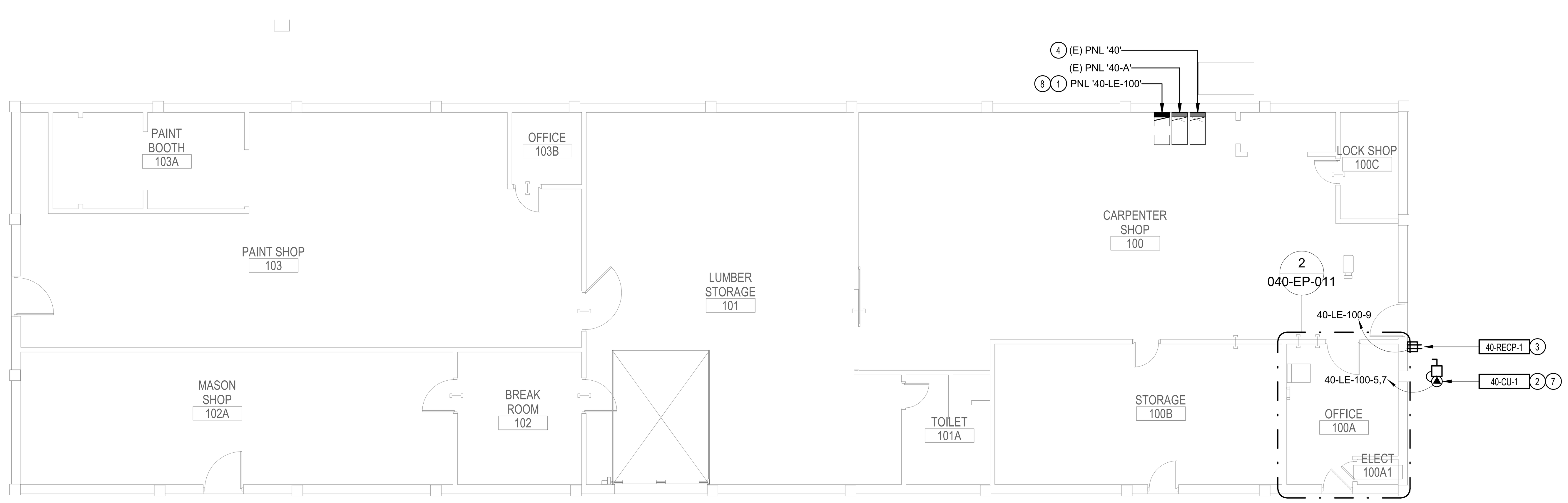
4 CONTRACTOR TO PROVIDE NEW 100A/3P SUB-FEED BREAKER IN EXISTING PANEL TO FEED NEW PANEL. MATCH EXISTING TYPE AND MANUFACTURER.

5 CONTRACTOR TO PROVIDE NEW L5-30 RECEPTACLE IN NEW JUNCTION BOX FOR NEW TELECOMMUNICATIONS ENCLOSURE UPS. ALIGN JUNCTION BOX TO ENCLOSURE 6"X6" CUTOUT BEHIND RACK. L5-30 RECEPTACLES TO BE MOUNTED IN SINGLE JUNCTION BOX UNLESS OTHERWISE NOTED.

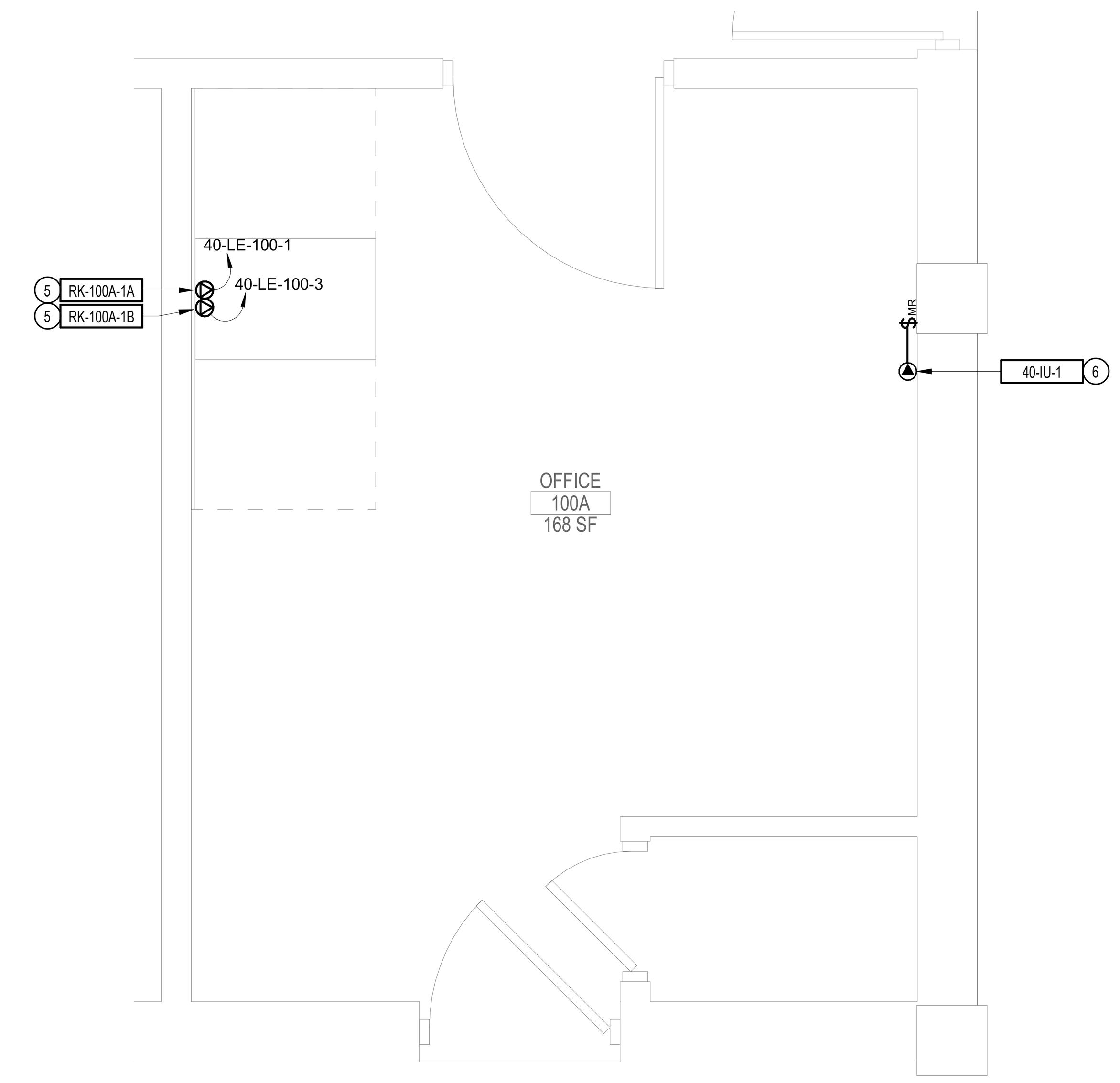
6 INDOOR MECHANICAL UNIT FED BY OUTDOOR MECHANICAL UNIT. PROVIDE NEW MOTOR-RATED SWITCH AND ALL CONDUIT AND CONDUCTORS FROM CONTROLS TO INDOOR UNIT AS REQUIRED FOR COMPLETE OPERATION.

7 CONTRACTOR TO PROVIDE NEW DISCONNECT WITH NEW FUSES FOR NEW MECHANICAL EQUIPMENT. SEE ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.

8 CONTRACTOR TO PROVIDE NEW 20A/1P BREAKER IN AVAILABLE SPACE IN NEW PANEL TO FEED EXISTING LOADS TO REMAIN. REROUTE CONDUIT AND CONDUCTORS FROM EXISTING LOADS TO NEW PANEL.

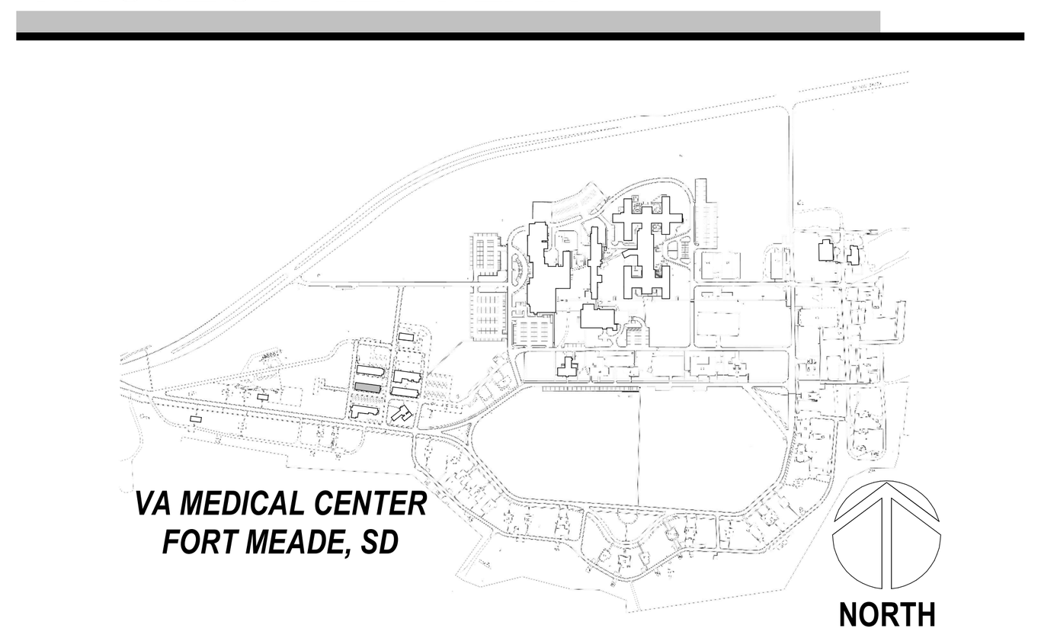


1 ELECTRICAL REMODEL PLAN - BLDG 40 FIRST FLOOR
1/8" = 1'-0"



2 ENLARGED ROOM - 102B POWER REMODEL
1/2" = 1'-0"

PROJECT KEY PLAN



Revisions:	Date:

CONSULTANT

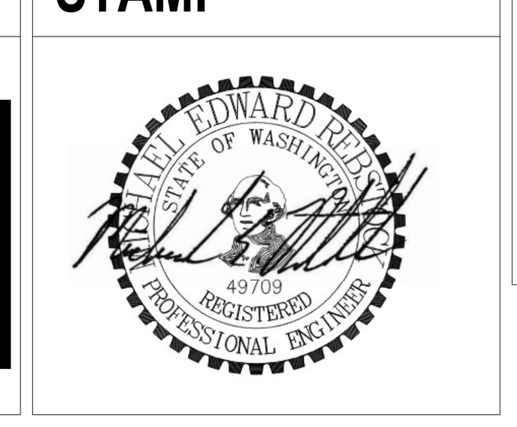
ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD

A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP



OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: ELECTRICAL REMODEL PLAN - FIRST FLOOR

APPROVED: Project Director

FOR OFFICIAL USE ONLY (FOUO)

PHASE: 100% CONSTRUCTION DOCUMENTS

FLS: FULLY SPRINKLERED

PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES

LOCATION: FORT MEADE, SOUTH DAKOTA

ISSUE DATE: 11/05/2024 | CHECKED BY: MER | DRAWN BY: AJW

PROJECT NUMBER: 568-21-701

BUILDING NUMBER: 40

DRAWING NUMBER: 040-EP-011

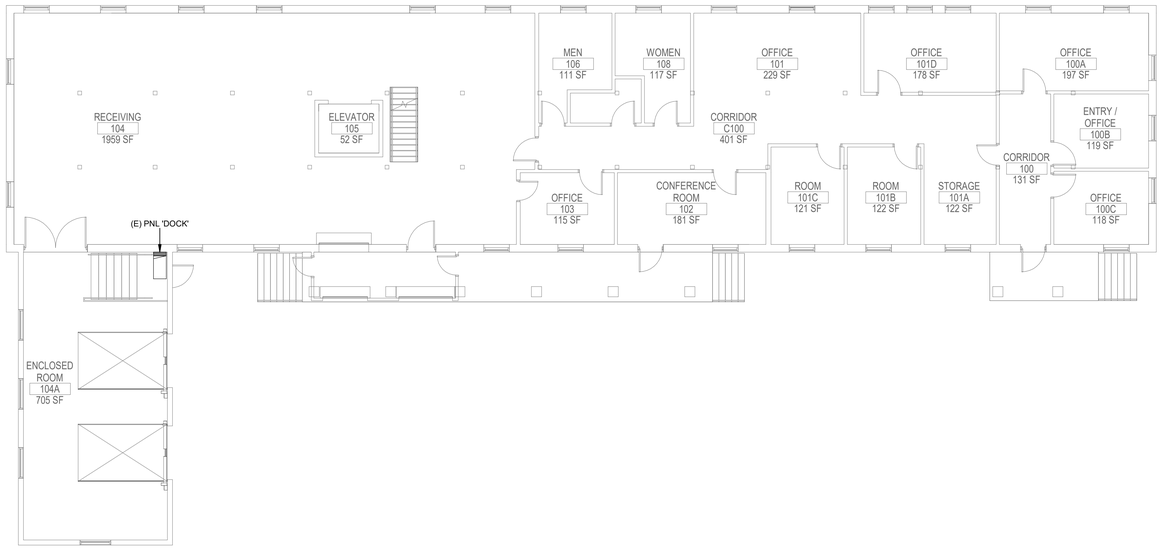
VA FORM 08 - 6231

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

GENERAL DEMOLITION NOTES

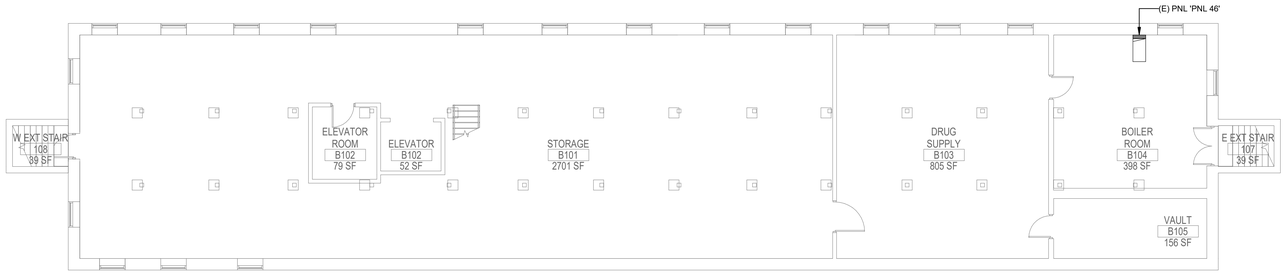
1. CONTRACTOR SHALL COORDINATE ALL OUTAGES WITH THE COR PRIOR TO BEGINNING WORK. GREAT CARE SHALL BE TAKEN TO MINIMIZE OUTAGE DURATION TO SHORTEST EXTENT POSSIBLE. NO DEMOLITION SHALL OCCUR ON THE UPS SYSTEM, LIFE SAFETY SYSTEM, TELECOMMUNICATIONS SYSTEM, OR ANY OTHER CRITICAL SYSTEM UNTIL THE NEW/REPLACEMENT SYSTEMS ARE IN PLACE AND READY FOR SWITCHOVER.
2. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM RECORD DRAWINGS AND/OR A NON-DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.
3. THE COR SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS. THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A WAREHOUSE AS DIRECTED BY THE COR. THE CONTRACTOR SHALL DISPOSE OF, OFF SITE, ALL UNWANTED MATERIALS.
4. DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
5. COORDINATE WITH THE OTHER DISCIPLINE DRAWINGS FOR AREAS OF DEMOLITION AND NEW WORK. PROVIDE MINOR RELOCATION OF LIGHT FIXTURES AND DEVICES TO ACCOMMODATE NEW MECHANICAL AND TELECOM EQUIPMENT LOCATIONS.
6. FOR WALL/CEILINGS SCHEDULED TO BE DEMOLISHED, DEMOLISH ALL CONDUIT, WIRE, DEVICES, BOXES, ETC. BACK TO THE EXTENT PRACTICAL TO ACCOMMODATE DEMOLITION. RELOCATE EXISTING LIGHT FIXTURES, DEVICES, CONDUIT, AND WIRE AS REQUIRED. PROVIDE EXTENSION OF CONDUIT AND WIRE AS REQUIRED TO ACCOMMODATE RELOCATED ITEMS.
7. FOR THE RENOVATED TELECOMMUNICATIONS ROOMS WITH NEW PAINTED PLYWOOD WALLS, CONTRACTOR SHALL DISCONNECT AND TEMPORARILY REMOVE ALL ELECTRICAL DEVICES, BOXES, CONDUIT, AND WIRE TO ALLOW FOR PLYWOOD INSTALLATION. REINSTALL ALL DEVICES BACK IN SAME LOCATIONS AND PROVIDE BOX EXTENSIONS, CIRCUIT EXTENSIONS, ETC. AS REQUIRED TO ACCOMMODATE RENOVATION.
8. COORDINATE WITH THE OTHER DISCIPLINE DRAWINGS FOR AREAS OF DEMOLITION AND NEW WORK.
9. LIGHTING AND RECEPTACLES SHALL REMAIN IN EXISTING TELECOM ROOMS. NO DEMOLITION UNLESS OTHERWISE NOTED

KEYNOTES



2 ELECTRICAL DEMOLITION PLAN - BLDG 46 FIRST FLOOR

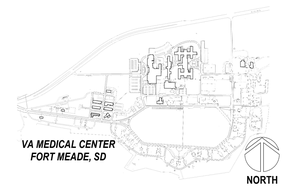
1/8" = 1'-0"



1 ELECTRICAL DEMOLITION PLAN - BLDG 46 BASEMENT

1/8" = 1'-0"

PROJECT KEY PLAN



VA MEDICAL CENTER
FORT MEADE, SD

NORTH

Revisions:	Date:

CONSULTANT

ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD

A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS · ENGINEERS

STAMP

EDWARD GODDIN — STATE OF WASHINGTON — 49709 — REGISTERED PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: ELECTRICAL DEMOLITION PLAN - BASEMENT	PHASE: 100% CONSTRUCTION DOCUMENTS	PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES	PROJECT NUMBER: 568-21-701
			BUILDING NUMBER: BLDG 46
APPROVED: Project Director: FOR OFFICIAL USE ONLY (FOUO)	FLS: FULLY SPRINKLERED	LOCATION: FORT MEADE, SOUTH DAKOTA	DRAWING NUMBER: 046-ED-0B1
		ISSUE DATE: 11/05/2024 / CHECKED BY: MER / DRAWN BY: AJW	

VA FORM 08 - 6231

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

BLDG 46 - EQUIPMENT SCHEDULE

EQUIPMENT TAG	RATED VOLTAGE	VOLTAGE PHASE	HP	KW	FLA	MCA	MOCP	# PARALLEL CONDUCTORS	BRANCH CIRCUIT RACEWAY	BRANCH CIRCUIT PHASE	BRANCH CIRCUIT N	BRANCH CIRCUIT G	DISCONNECT SIZE	DISCONNECT FUSE	NOTES
MECHANICAL EQUIPMENT															
46-IU-1	208	1	-	-	0.2	14.0	15	-	3/4"	2#12	-	#12	-	-	3
46-OU-1	208	1	-	-	-	11.0	15	-	3/4"	2#12	-	#12	30	15	1
TELECOMMUNICATIONS EQUIPMENT															
RK-B105-1A	208	1	-	2.88	-	-	30	-	3/4"	2#10	-	#10	-	-	2
RK-B105-1B	208	1	-	2.88	-	-	30	-	3/4"	2#10	-	#10	-	-	2

NOTES

1. PROVIDE NEW DISCONNECT.
2. PROVIDE NEMA L5-30 RECEPTACLE.
3. PROVIDE NEW MOTOR-RATED SWITCH.

GENERAL NOTES

1. COORDINATE EXACT LOCATION OF MECHANICAL AND TELECOMMUNICATIONS EQUIPMENT WITH THE CORRESPONDING DISCIPLINE'S DRAWINGS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARILY MOVING AND RETURNING FURNITURE, FIXTURES, AND EQUIPMENT WITHIN SPACES AS REQUIRED TO COMPLETE EACH DAYS WORK. THE VA WILL REMOVE OR SECURE PHI, , PPI, AND PERSONALY PROPERTY. COORDINATE THIS WORK WITH THE COR.
3. REFER TO ASSOCIATED TN SHEETS FOR RACK QUANTITES IN EXISTING AND NEW TR SPACES.
4. REFER TO ELECTRICAL FEEDER SCHEDULES ON SHEET 000-EG-001 FOR CONDUIT AND CONDUCTOR FEEDER REQUIREMENTS.
5. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
6. CONDUIT ROUTING SHOWN IS SCHEMATIC BY DESIGN. CONTRACTOR SHALL VERIFY FEASIBILITY PRIOR TO INSTALLATION.

KEYNOTES

1 CONTRACTOR TO PROVIDE NEW L5-30 RECEPTACLE IN NEW JUNCTION BOX FOR NEW TELECOMMUNICATIONS ENCLOSURE UPS. ALIGN JUNCTION BOX TO ENCLOSURE 6"X6" CUTOUT BEHIND RACK. L5-30 RECEPTACLES TO BE MOUNTED IN SINGLE JUNCTION BOX UNLESS OTHERWISE NOTED.

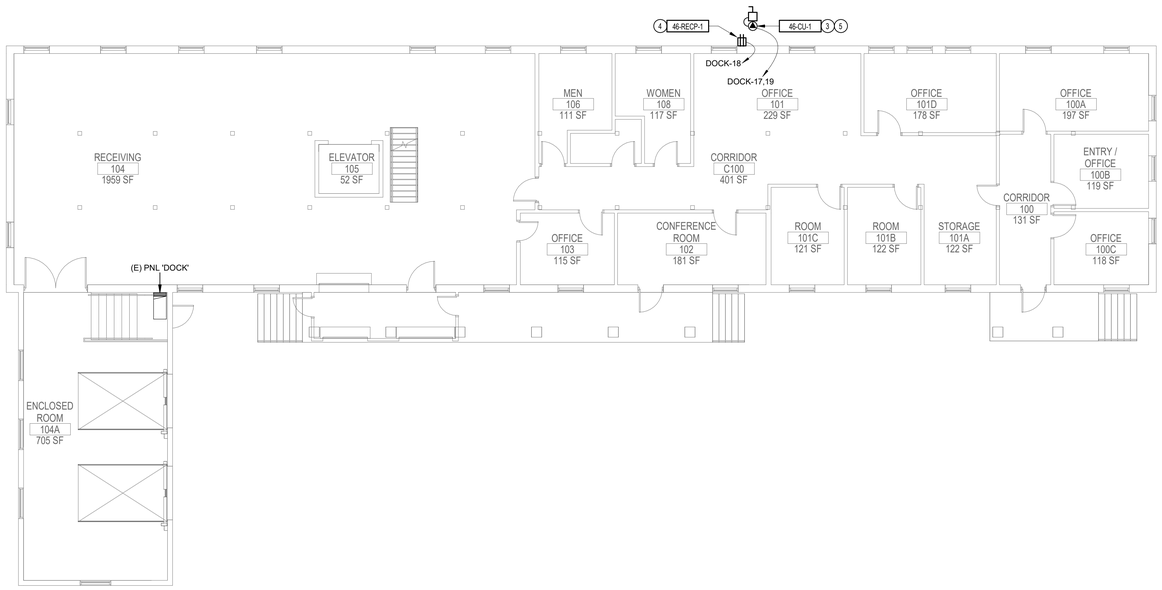
2 INDOOR MECHANICAL UNIT FED BY OUTDOOR MECHANICAL UNIT. PROVIDE NEW MOTOR-RATED SWITCH AND ALL CONDUIT AND CONDUCTORS FROM CONTROLS TO INDOOR UNIT AS REQUIRED FOR COMPLETE OPERATION.

3 CONTRACTOR TO PROVIDE NEW DISCONNECT WITH NEW FUSES FOR NEW MECHANICAL EQUIPMENT. SEE ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.

4 CONTRACTOR TO PROVIDE WET-RATED CONVENIANCE RECEPTACLE. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION AND WEATHER PROTECTION.

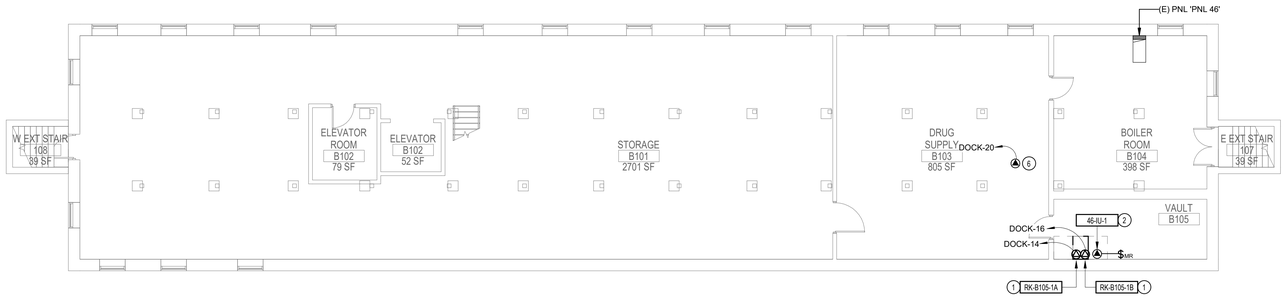
5 CONTRACTOR TO PROVIDE CONDUIT AND CONDUCTORS FOR NEW OUTDOOR MECHANICAL UNIT. SEE ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.

6 CONTRACTOR TO PROVIDE CONNECTION TO DRAIN PAN PUMP. PROVIDE CONDUITS AND CONDUCTORS AS REQUIRED FOR COMPLETE OPERATION.



2 ELECTRICAL REMODEL PLAN - BLDG 46 FIRST FLOOR

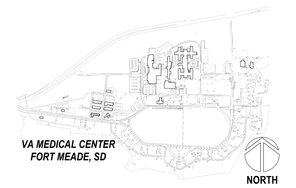
1/8" = 1'-0"



1 ELECTRICAL REMODEL PLAN - BLDG 46 BASEMENT

1/8" = 1'-0"

PROJECT KEY PLAN



VA MEDICAL CENTER FORT MEADE, SD

NORTH

Revisions:	Date:

CONSULTANT
ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD
A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS · ENGINEERS

STAMP

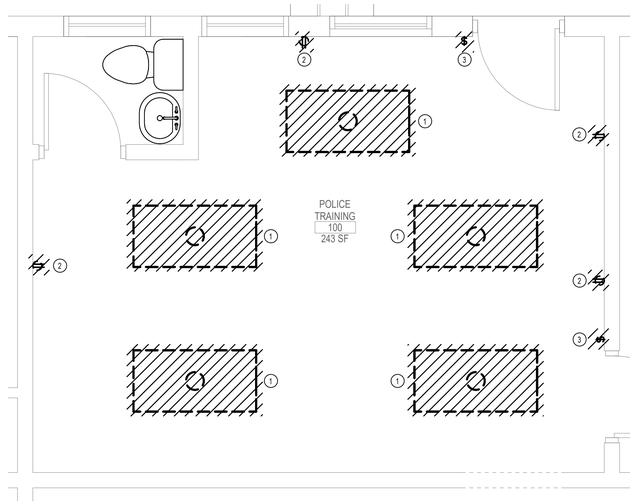
EDWARD GODDIN · STATE OF WASHINGTON · 49709 · REGISTERED PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

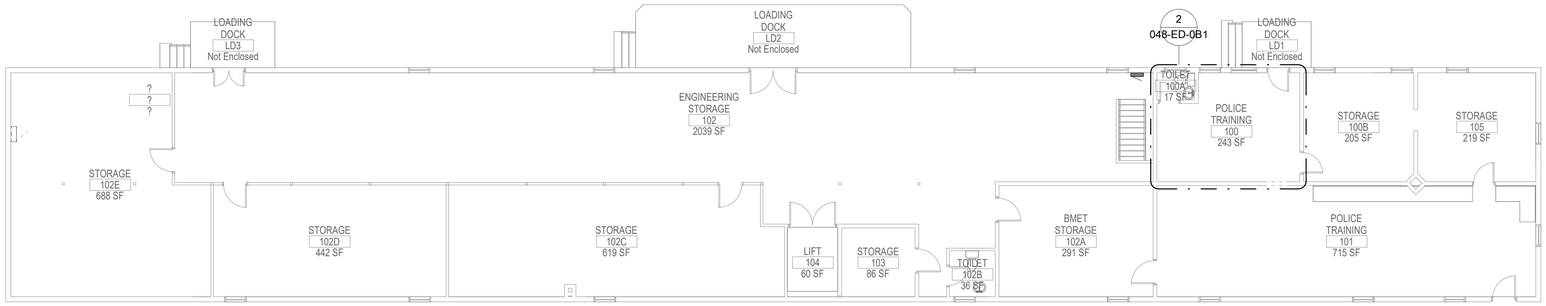
DRAWING TITLE: ELECTRICAL REMODEL PLAN - BASEMENT	PHASE: 100% CONSTRUCTION DOCUMENTS	PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES	PROJECT NUMBER: 568-21-701
			BUILDING NUMBER: BLDG 46
APPROVED: Project Director: FOR OFFICIAL USE ONLY (FOUO)	FLS: FULLY SPRINKLERED	LOCATION: FORT MEADE, SOUTH DAKOTA	DRAWING NUMBER: 046-EP-0B1
		ISSUE DATE: 11/05/2024 · CHECKED BY: MER · DRAWN BY: AJW	

VA FORM 08 - 6231



2 ENLARGED ROOM - 102F ELECTRICAL DEMOLITION

1/2" = 1'-0"



1 ELECTRICAL DEMOLITION PLAN - BLDG 48 FIRST FLOOR

1/8" = 1'-0"

GENERAL DEMOLITION NOTES

1. CONTRACTOR SHALL COORDINATE ALL OUTAGES WITH THE COR PRIOR TO BEGINNING WORK. GREAT CARE SHALL BE TAKEN TO MINIMIZE OUTAGE DURATION TO SHORTEST EXTENT POSSIBLE. NO DEMOLITION SHALL OCCUR ON THE UPS SYSTEM, LIFE SAFETY SYSTEM, TELECOMMUNICATIONS SYSTEM, OR ANY OTHER CRITICAL SYSTEM UNTIL THE NEW/REPLACEMENT SYSTEMS ARE IN PLACE AND READY FOR SWITCHOVER.
2. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM RECORD DRAWINGS AND/OR A NON-DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.
3. THE COR SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS. THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A WAREHOUSE AS DIRECTED BY THE COR. THE CONTRACTOR SHALL DISPOSE OF, OFF SITE, ALL UNWANTED MATERIALS.
4. DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
5. COORDINATE WITH THE OTHER DISCIPLINE DRAWINGS FOR AREAS OF DEMOLITION AND NEW WORK. PROVIDE MINOR RELOCATION OF LIGHT FIXTURES AND DEVICES TO ACCOMMODATE NEW MECHANICAL AND TELECOM EQUIPMENT LOCATIONS.
6. FOR WALL/CEILINGS SCHEDULED TO BE DEMOLISHED, DEMOLISH ALL CONDUIT, WIRE, DEVICES, BOXES, ETC. BACK TO THE EXTENT PRACTICAL TO ACCOMMODATE DEMOLITION. RELOCATE EXISTING LIGHT FIXTURES, DEVICES, CONDUIT, AND WIRE AS REQUIRED. PROVIDE EXTENSION OF CONDUIT AND WIRE AS REQUIRED TO ACCOMMODATE RELOCATED ITEMS.
7. FOR THE RENOVATED TELECOMMUNICATIONS ROOMS WITH NEW PAINTED PLYWOOD WALLS, CONTRACTOR SHALL DISCONNECT AND TEMPORARILY REMOVE ALL ELECTRICAL DEVICES, BOXES, CONDUIT, AND WIRE TO ALLOW FOR PLYWOOD INSTALLATION. REINSTALL ALL DEVICES BACK IN SAME LOCATIONS AND PROVIDE BOX EXTENSIONS, CIRCUIT EXTENSIONS, ETC. AS REQUIRED TO ACCOMMODATE RENOVATION.
8. COORDINATE WITH THE OTHER DISCIPLINE DRAWINGS FOR AREAS OF DEMOLITION AND NEW WORK.
9. LIGHTING AND RECEPTACLES SHALL REMAIN IN EXISTING TELECOM ROOMS. NO DEMOLITION UNLESS OTHERWISE NOTED

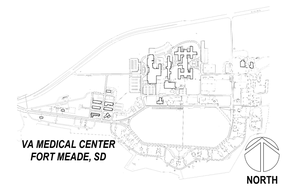
KEYNOTES

1 LIGHT FIXTURE TO BE REMOVED. CONTRACTOR TO REMOVE EXISTING CONDUIT AND CONDUCTORS BACK TO SOURCE. MAINTAIN CIRCUIT CONTINUITY FOR EXISTING LIGHT FIXTURES TO REMAIN.

2 EXISTING ELECTRICAL RECEPTACLES TO BE REMOVED. CONTRACTOR TO REMOVE EXISTING CONDUIT AND CONDUCTORS BACK TO SOURCE.

3 EXISTING LIGHT SWITCH TO BE REMOVED. REMOVE CONDUIT AND CONDUCTORS BACK TO SOURCE.

PROJECT KEY PLAN



VA MEDICAL CENTER
FORT MEADE, SD

NORTH

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

Revisions:	Date:

CONSULTANT

ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD

A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

EDWARD ADAM GODDIN — STATE OF WASHINGTON — 43799 — REGISTERED PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: ELECTRICAL DEMOLITION PLAN

PHASE: 100% CONSTRUCTION DOCUMENTS

APPROVED: Project Director

FOR OFFICIAL USE ONLY (FOUO)

FLS: FULLY SPRINKLERED

PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES

LOCATION: FORT MEADE, SOUTH DAKOTA

ISSUE DATE: 11/05/2024 | CHECKED BY: MER | DRAWN BY: AJW

PROJECT NUMBER: 568-21-701

BUILDING NUMBER: 48

DRAWING NUMBER: 048-ED-0B1

VA FORM 08 - 6231

BLDG 48 - EQUIPMENT SCHEDULE															
EQUIPMENT TAG	RATED VOLTAGE	VOLTAGE PHASE	HP	KW	FLA	MCA	MOCP	# PARALLEL CONDUCTORS	BRANCH CIRCUIT				DISCONNECT		NOTES
									RACEWAY	PHASE	N	G	SIZE	FUSE	
MECHANICAL EQUIPMENT															
48-IU-1	240	1	-	-	0.3	14.0	15	-	3/4"	2#12	-	#12	-	-	3
48-OU-1	240	1	-	-	-	11.0	15	-	3/4"	2#12	-	#12	30	15	1
TELECOMMUNICATIONS EQUIPMENT															
RK-102F-1A	120	1	-	2.88	-	-	30	-	3/4"	2#10	-	#10	-	-	2
RK-102F-1B	120	1	-	2.88	-	-	30	-	3/4"	2#10	-	#10	-	-	2

NOTES
1. PROVIDE NEW DISCONNECT.
2. PROVIDE NEMA L5-30 RECEPTACLE.
3. PROVIDE NEW MOTOR-RATED SWITCH.

LUMINAIRE SCHEDULE									
TYPE	DESCRIPTION	MANUFACTURER	MODEL #	LAMP TYPE	CRI	DELIVERED LUMENS	COLOR TEMP	INPUT WATTS	FINISH
S1	LED STRIP LIGHT FIXTURE, LENSED, WHITE HOUSING, PROVIDE WITH E10WLCP EM DRIVER WHERE NOTED AS EMERGENCY ON PLANS.	LITHONIA	#ZL1N-L48-7000LM-FST-MVOLT-40K-80CRI-WH (E10WLCP)	LED	80	6785	4000K	52	WHITE
NOTES:									

GENERAL NOTES

1. COORDINATE EXACT LOCATION OF MECHANICAL AND TELECOMMUNICATIONS EQUIPMENT WITH THE CORRESPONDING DISCIPLINE'S DRAWINGS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMOPORARILY MOVING AND RETURNING FURNITURE, FIXTURES, AND EQUIPMENT WITHIN SPACES AS REQUIRED TO COMPLETE EACH DAYS WORK. THE VA WILL REMOVE OR SECURE PHI,, PPI, AND PERSONALY PROPERTY. COORDINATE THIS WORK WITH THE COR.
3. REFER TO ASSOCIATED TN SHEETS FOR RACK QUANTITES IN EXISTING AND NEW TR SPACES.
4. REFER TO ELECTRICAL FEEDER SCHEDULES ON SHEET 000-EG-001 FOR CONDUIT AND CONDUCTOR FEEDER REQUIREMENTS.
5. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
6. CONDUIT ROUTING SHOWN IS SCHEMATIC BY DESIGN. CONTRACTOR SHALL VERIFY FEASIBILITY PRIOR TO INSTALLATION.

KEYNOTES

1 CONTRACTOR TO PROVIDE NEW L5-30 RECEPTACLE IN NEW JUNCTION BOX FOR NEW TELECOMMUNICATIONS ENCLOSURE UPS. ALIGN JUNCTION BOX TO ENCLOSURE 6"X6" CUTOUT BEHIND RACK. L5-30 RECEPTACLES TO BE MOUNTED IN SINGLE JUNCTION BOX UNLESS OTHERWISE NOTED.

2 CONTRACTOR TO PROVIDE NEW OCCUPANCY SENSOR SWITCH. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION.

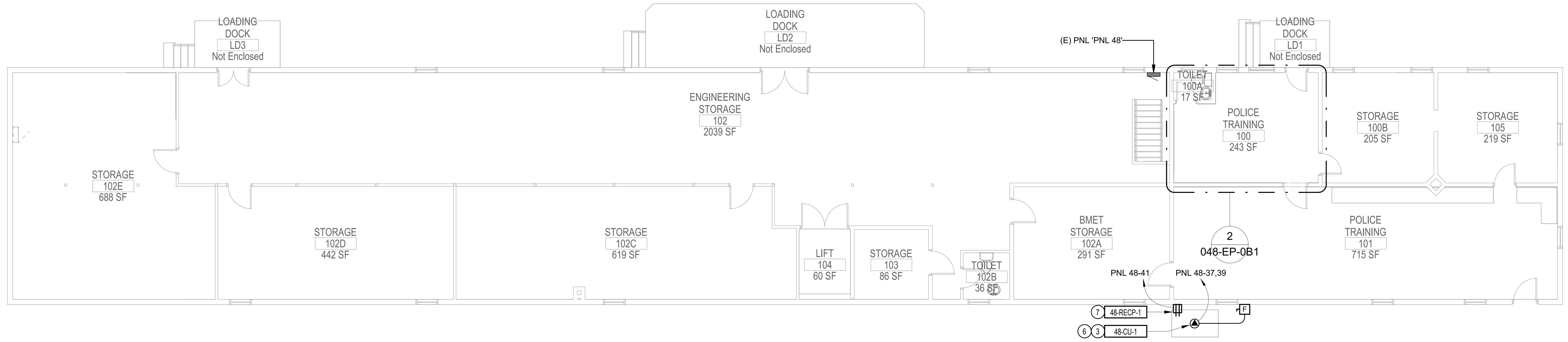
3 CONTRACTOR TO PROVIDE NEW DISCONNECT WITH NEW FUSES FOR NEW MECHANICAL EQUIPMENT. SEE ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.

4 CONTRACTOR TO PROVIDE NEW LIGHT FIXTURE. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION. REFER TO LIGHT FIXTURE SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION AMD REQUIREMENTS.

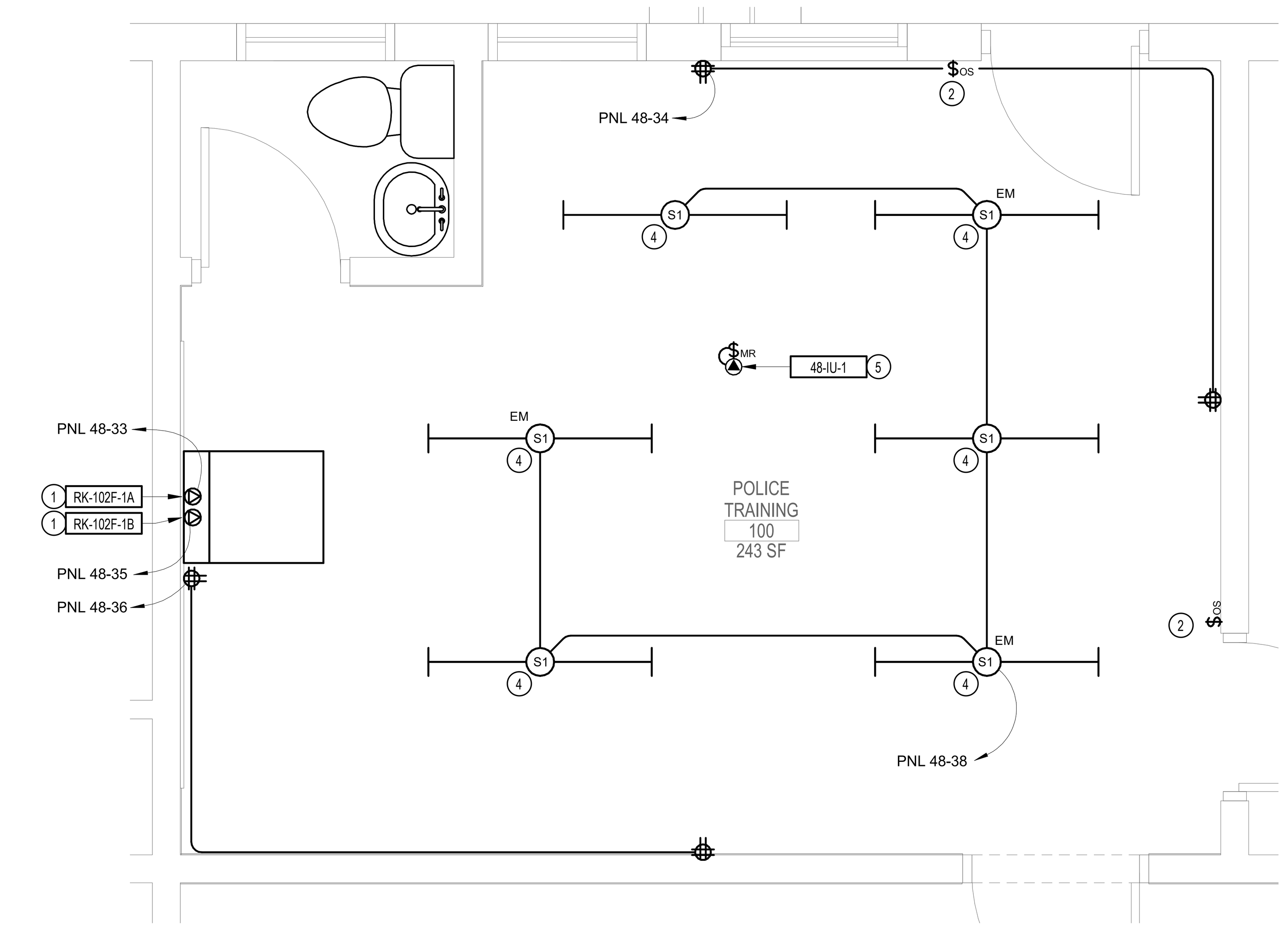
5 INDOOR MECHANICAL UNIT FED BY OUTDOOR MECHANICAL UNIT. PROVIDE NEW MOTOR-RATED SWITCH AND ALL CONDUIT AND CONDUCTORS FROM CONTROLS TO INDOOR UNIT AS REQUIRED FOR COMPLETE OPERATION.

6 CONTRACTOR TO PROVIDE CONDUIT AND CONDUCTORS FOR NEW OUTDOOR MECHANICAL UNIT. SEE ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.

7 CONTRACTOR TO PROVIDE WET-RATED CONVENIANCE RECEPTACLE. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION AND WEATHER PROTECTION.



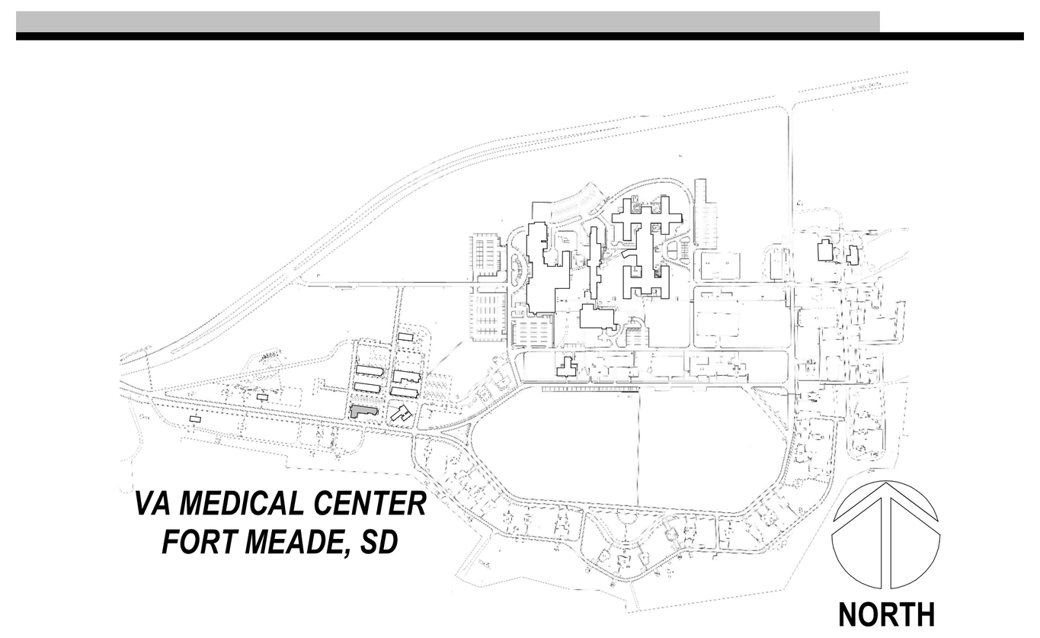
1 ELECTRICAL REMODEL PLAN - BLDG 48 FIRST FLOOR
1/8" = 1'-0"



2 ENLARGED ROOM - 102F POWER REMODEL
1/2" = 1'-0"

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

PROJECT KEY PLAN



Revisions:	Date:

CONSULTANT
ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD
A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT
VA U.S. Department of Veterans Affairs

DRAWING TITLE: ELECTRICAL REMODEL PLANS
PHASE: 100% CONSTRUCTION DOCUMENTS
APPROVED: Project Director
FOR OFFICIAL USE ONLY (FOUO)
FLS: FULLY SPRINKLERED
PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES
LOCATION: FORT MEADE, SOUTH DAKOTA
ISSUE DATE: 11/05/2024
CHECKED BY: MER
DRAWN BY: AJW
PROJECT NUMBER: 568-21-701
BUILDING NUMBER: 48
DRAWING NUMBER: 048-EP-0B1

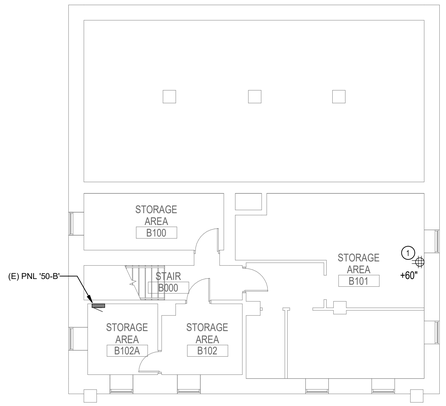
VA FORM 08 - 6231

GENERAL DEMOLITION NOTES

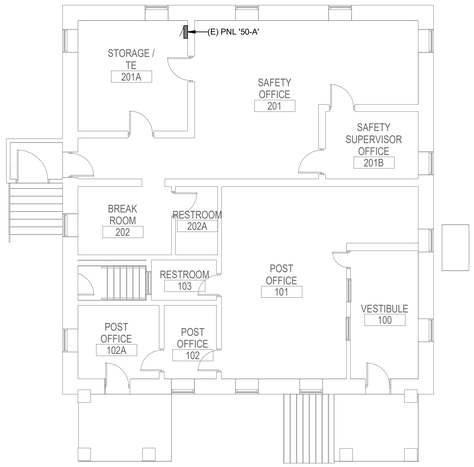
1. CONTRACTOR SHALL COORDINATE ALL OUTAGES WITH THE COR PRIOR TO BEGINNING WORK. GREAT CARE SHALL BE TAKEN TO MINIMIZE OUTAGE DURATION TO SHORTEST EXTENT POSSIBLE. NO DEMOLITION SHALL OCCUR ON THE UPS SYSTEM, LIFE SAFETY SYSTEM, TELECOMMUNICATIONS SYSTEM, OR ANY OTHER CRITICAL SYSTEM UNTIL THE NEW/REPLACEMENT SYSTEMS ARE IN PLACE AND READY FOR SWITCHOVER.
2. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM RECORD DRAWINGS AND/OR A NON-DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.
3. THE COR SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS. THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A WAREHOUSE AS DIRECTED BY THE COR. THE CONTRACTOR SHALL DISPOSE OF, OFF SITE, ALL UNWANTED MATERIALS.
4. DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
5. COORDINATE WITH THE OTHER DISCIPLINE DRAWINGS FOR AREAS OF DEMOLITION AND NEW WORK. PROVIDE MINOR RELOCATION OF LIGHT FIXTURES AND DEVICES TO ACCOMMODATE NEW MECHANICAL AND TELECOM EQUIPMENT LOCATIONS.
6. FOR WALL/CEILINGS SCHEDULED TO BE DEMOLISHED, DEMOLISH ALL CONDUIT, WIRE, DEVICES, BOXES, ETC. BACK TO THE EXTENT PRACTICAL TO ACCOMMODATE DEMOLITION. RELOCATE EXISTING LIGHT FIXTURES, DEVICES, CONDUIT, AND WIRE AS REQUIRED. PROVIDE EXTENSION OF CONDUIT AND WIRE AS REQUIRED TO ACCOMMODATE RELOCATED ITEMS.
7. FOR THE RENOVATED TELECOMMUNICATIONS ROOMS WITH NEW PAINTED PLYWOOD WALLS, CONTRACTOR SHALL DISCONNECT AND TEMPORARILY REMOVE ALL ELECTRICAL DEVICES, BOXES, CONDUIT, AND WIRE TO ALLOW FOR PLYWOOD INSTALLATION. REINSTALL ALL DEVICES BACK IN SAME LOCATIONS AND PROVIDE BOX EXTENSIONS, CIRCUIT EXTENSIONS, ETC. AS REQUIRED TO ACCOMMODATE RENOVATION.
8. COORDINATE WITH THE OTHER DISCIPLINE DRAWINGS FOR AREAS OF DEMOLITION AND NEW WORK.
9. LIGHTING AND RECEPTACLES SHALL REMAIN IN EXISTING TELECOM ROOMS. NO DEMOLITION UNLESS OTHERWISE NOTED

KEYNOTES

1. EXISTING ELECTRICAL DEVICE TO REMAIN.



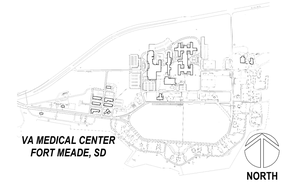
1 ELECTRICAL DEMOLITION PLAN - BLDG 50 BASEMENT
1/8" = 1'-0"



2 ELECTRICAL DEMOLITION PLAN - BLDG 50 FIRST FLOOR
1/8" = 1'-0"

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

PROJECT KEY PLAN



VA MEDICAL CENTER
FORT MEADE, SD

NORTH

Revisions:	Date:

CONSULTANT

ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD

A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

EDWARD STATE OF WASHINGTON 21722 REGISTERED PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: ELECTRICAL DEMOLITION PLAN

PHASE: 100% CONSTRUCTION DOCUMENTS

PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES

PROJECT NUMBER: 568-21-701

BUILDING NUMBER: 50

APPROVED: Project Director: FOR OFFICIAL USE ONLY (FOUO)

FLS: FULLY SPRINKLERED

LOCATION: FORT MEADE, SOUTH DAKOTA

ISSUE DATE: 11/05/2024 | CHECKED BY: MER | DRAWN BY: AJW

DRAWING NUMBER: 050-ED-011

VA FORM 08 - 6231

BLDG 50 - EQUIPMENT SCHEDULE

EQUIPMENT TAG	RATED VOLTAGE	VOLTAGE PHASE	HP	KW	FLA	MCA	MOCP	# PARALLEL CONDUCTORS	BRANCH CIRCUIT RACEWAY	BRANCH CIRCUIT PHASE	BRANCH CIRCUIT N	BRANCH CIRCUIT G	DISCONNECT SIZE	DISCONNECT FUSE	NOTES
MECHANICAL EQUIPMENT															
50-IU-1	240	1	-	-	0.2	14.0	15	-	3/4"	2#12	-	#12	-	-	3
50-OU-1	240	1	-	-	-	11.0	15	-	3/4"	2#12	-	#12	30	15	1
TELECOMMUNICATIONS EQUIPMENT															
RK-201A-1A	120	1	-	2.88	-	-	30	-	3/4"	2#10	-	#10	-	-	2
RK-201A-1B	120	1	-	2.88	-	-	30	-	3/4"	2#10	-	#10	-	-	2

NOTES

1. PROVIDE NEW DISCONNECT.
2. PROVIDE NEMA L5-30 RECEPTACLE.
3. PROVIDE NEW MOTOR-RATED SWITCH.

GENERAL NOTES

1. COORDINATE EXACT LOCATION OF MECHANICAL AND TELECOMMUNICATIONS EQUIPMENT WITH THE CORRESPONDING DISCIPLINE'S DRAWINGS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMOPORARILY MOVING AND RETURNING FURNITURE, FIXTURES, AND EQUIPMENT WITHIN SPACES AS REQUIRED TO COMPLETE EACH DAYS WORK. THE VA WILL REMOVE OR SECURE PHI-, PPI, AND PERSONALY PROPERTY. COORDINATE THIS WORK WITH THE COR.
3. REFER TO ASSOCIATED TN SHEETS FOR RACK QUANTITES IN EXISTING AND NEW TR SPACES.
4. REFER TO ELECTRICAL FEEDER SCHEDULES ON SHEET 000-EG-001 FOR CONDUIT AND CONDUCTOR FEEDER REQUIREMENTS.
5. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
6. CONDUIT ROUTING SHOWN IS SCHEMATIC BY DESIGN. CONTRACTOR SHALL VERIFY FEASIBILITY PRIOR TO INSTALLATION.

KEYNOTES

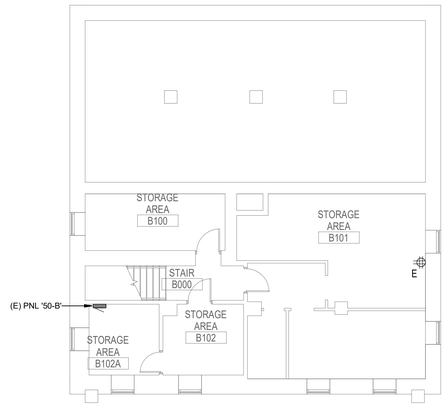
1 CONTRACTOR TO PROVIDE NEW L5-30 RECEPTACLE IN NEW JUNCTION BOX FOR NEW TELECOMMUNICATIONS ENCLOSURE UPS. ALIGN JUNCTION BOX TO ENCLOSURE 6"X8" CUTOUT BEHIND RACK. L5-30 RECEPTACLES TO BE MOUNTED IN SINGLE JUNCTION BOX UNLESS OTHERWISE NOTED.

2 CONTRACTOR TO PROVIDE NEW DISCONNECT WITH NEW FUSES FOR NEW MECHANICAL EQUIPMENT. SEE ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.

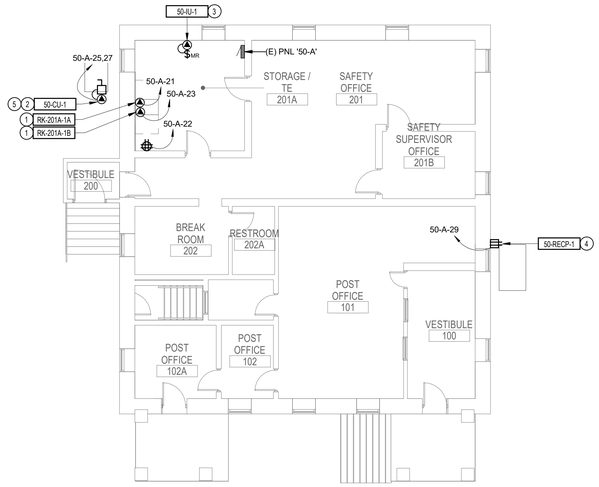
3 INDOOR MECHANICAL UNIT FED BY OUTDOOR MECHANICAL UNIT. PROVIDE NEW MOTOR-RATED SWITCH AND ALL CONDUIT AND CONDUCTORS FROM CONTROLS TO INDOOR UNIT AS REQUIRED FOR COMPLETE OPERATION.

4 CONTRACTOR TO PROVIDE WET-RATED CONVENIANCE RECEPTACLE. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION AND WEATHER PROTECTION.

5 CONTRACTOR TO PROVIDE CONDUIT AND CONDUCTORS FOR NEW OUTDOOR MECHANICAL UNIT. SEE ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.

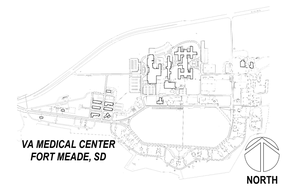


1 ELECTRICAL REMODEL PLAN - BLDG 50 BASEMENT
1/8" = 1'-0"



2 ELECTRICAL REMODEL PLAN - BLDG 50 FIRST FLOOR
1/8" = 1'-0"

PROJECT KEY PLAN



VA MEDICAL CENTER
FORT MEADE, SD

NORTH

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

Revisions:	Date:

CONSULTANT

ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD

A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

EDWARD GODDIN — STATE OF WASHINGTON — 49179 — REGISTERED PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: ELECTRICAL REMODEL PLAN
PHASE: 100% CONSTRUCTION DOCUMENTS
PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES
PROJECT NUMBER: 568-21-701
BUILDING NUMBER: 50
APPROVED: Project Director: FOR OFFICIAL USE ONLY (FOUO)
FLS: FULLY SPRINKLERED
LOCATION: FORT MEADE, SOUTH DAKOTA
ISSUE DATE: 11/05/2024
CHECKED BY: MER
DRAWN BY: AJW
DRAWING NUMBER: 050-EP-011

VA FORM 08 - 6231

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

GENERAL DEMOLITION NOTES

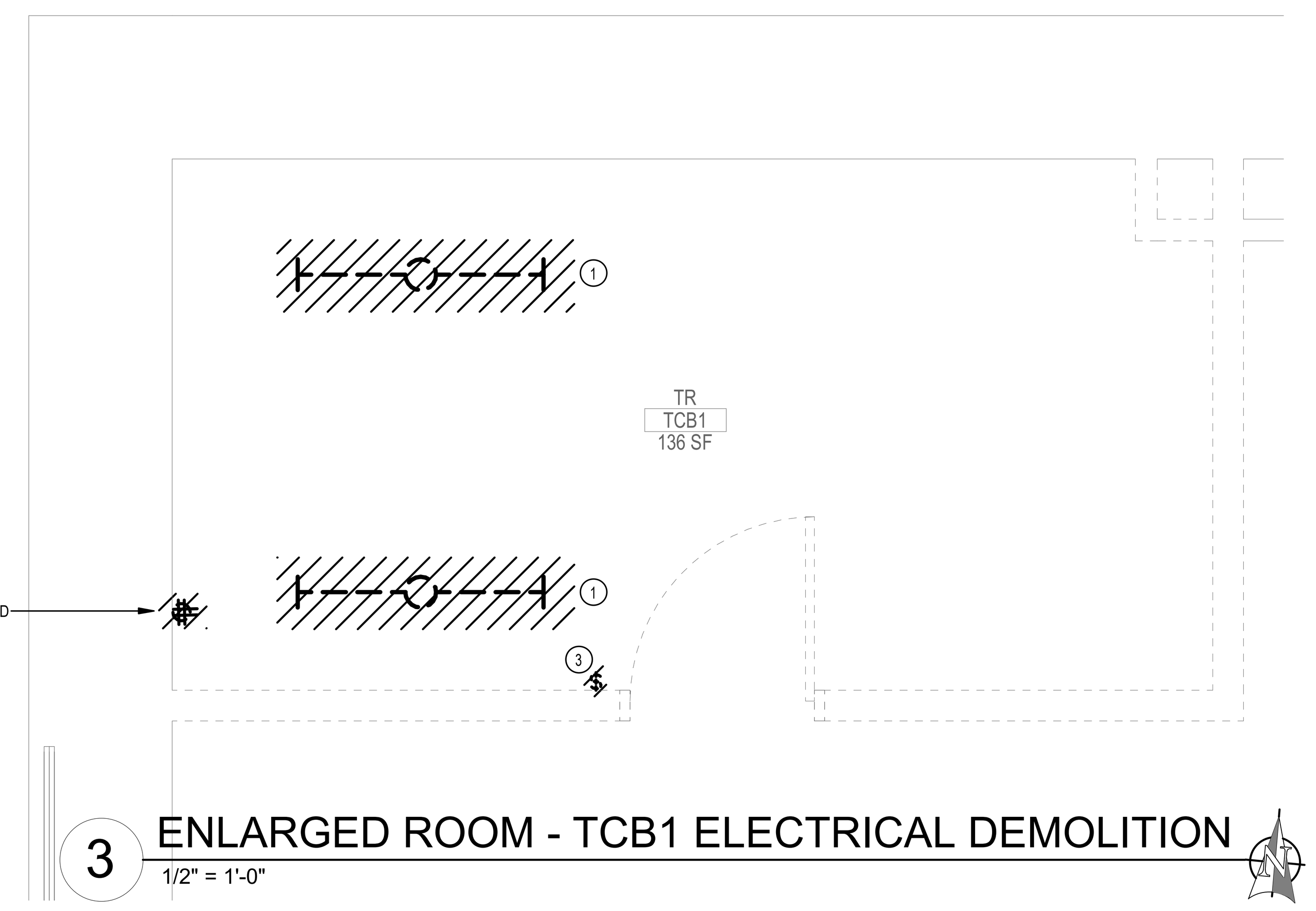
1. CONTRACTOR SHALL COORDINATE ALL OUTAGES WITH THE COR PRIOR TO BEGINNING WORK. GREAT CARE SHALL BE TAKEN TO MINIMIZE OUTAGE DURATION TO SHORTEST EXTENT POSSIBLE. NO DEMOLITION SHALL OCCUR ON THE UPS SYSTEM, LIFE SAFETY SYSTEM, TELECOMMUNICATIONS SYSTEM, OR ANY OTHER CRITICAL SYSTEM UNTIL THE NEW/REPLACEMENT SYSTEMS ARE IN PLACE AND READY FOR SWITCHOVER.
2. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM RECORD DRAWINGS AND/OR A NON-DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.
3. THE COR SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS. THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A WAREHOUSE AS DIRECTED BY THE COR. THE CONTRACTOR SHALL DISPOSE OF, OFF SITE, ALL UNWANTED MATERIALS.
4. DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
5. COORDINATE WITH THE OTHER DISCIPLINE DRAWINGS FOR AREAS OF DEMOLITION AND NEW WORK. PROVIDE MINOR RELOCATION OF LIGHT FIXTURES AND DEVICES TO ACCOMMODATE NEW MECHANICAL AND TELECOM EQUIPMENT LOCATIONS.
6. FOR WALL/CEILINGS SCHEDULED TO BE DEMOLISHED, DEMOLISH ALL CONDUIT, WIRE, DEVICES, BOXES, ETC. BACK TO THE EXTENT PRACTICAL TO ACCOMMODATE DEMOLITION. RELOCATE EXISTING LIGHT FIXTURES, DEVICES, CONDUIT, AND WIRE AS REQUIRED. PROVIDE EXTENSION OF CONDUIT AND WIRE AS REQUIRED TO ACCOMMODATE RELOCATED ITEMS.
7. FOR THE RENOVATED TELECOMMUNICATIONS ROOMS WITH NEW PAINTED PLYWOOD WALLS, CONTRACTOR SHALL DISCONNECT AND TEMPORARILY REMOVE ALL ELECTRICAL DEVICES, BOXES, CONDUIT, AND WIRE TO ALLOW FOR PLYWOOD INSTALLATION. REINSTALL ALL DEVICES BACK IN SAME LOCATIONS AND PROVIDE BOX EXTENSIONS, CIRCUIT EXTENSIONS, ETC. AS REQUIRED TO ACCOMMODATE RENOVATION.
8. COORDINATE WITH THE OTHER DISCIPLINE DRAWINGS FOR AREAS OF DEMOLITION AND NEW WORK.
9. LIGHTING AND RECEPTACLES SHALL REMAIN IN EXISTING TELECOM ROOMS. NO DEMOLITION UNLESS OTHERWISE NOTED

KEYNOTES

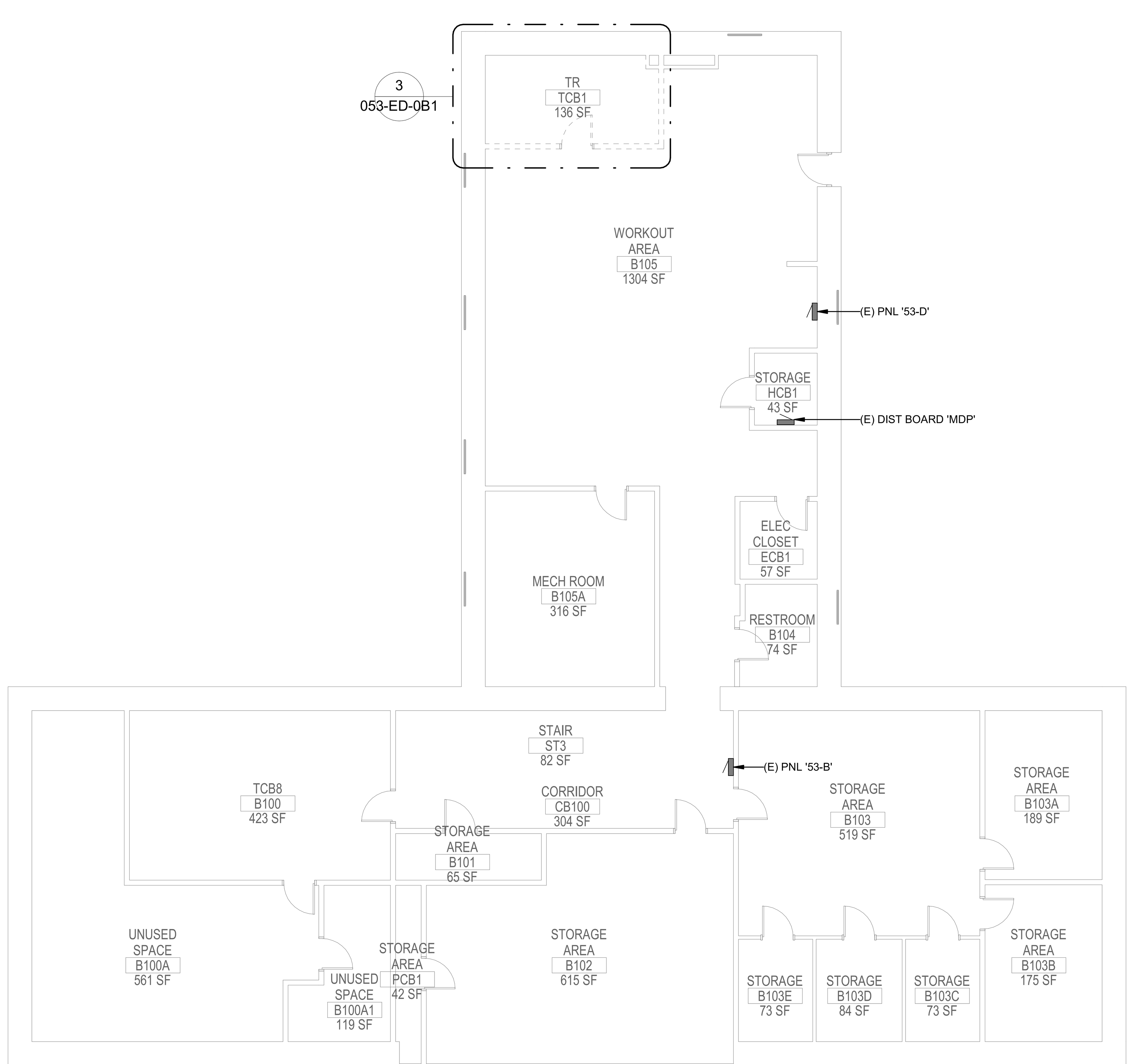
1 LIGHT FIXTURE TO BE REMOVED. CONTRACTOR TO REMOVE EXISTING CONDUIT AND CONDUCTORS BACK TO SOURCE. MAINTAIN CIRCUIT CONTINUITY FOR EXISTING LIGHT FIXTURES TO REMAIN.

2 EXISTING ELECTRICAL RECEPTACLES TO BE REMOVED. CONTRACTOR TO REMOVE EXISTING CONDUIT AND CONDUCTORS BACK TO SOURCE.

3 EXISTING LIGHT SWITCH TO BE REMOVED. REMOVE CONDUIT AND CONDUCTORS BACK TO SOURCE.



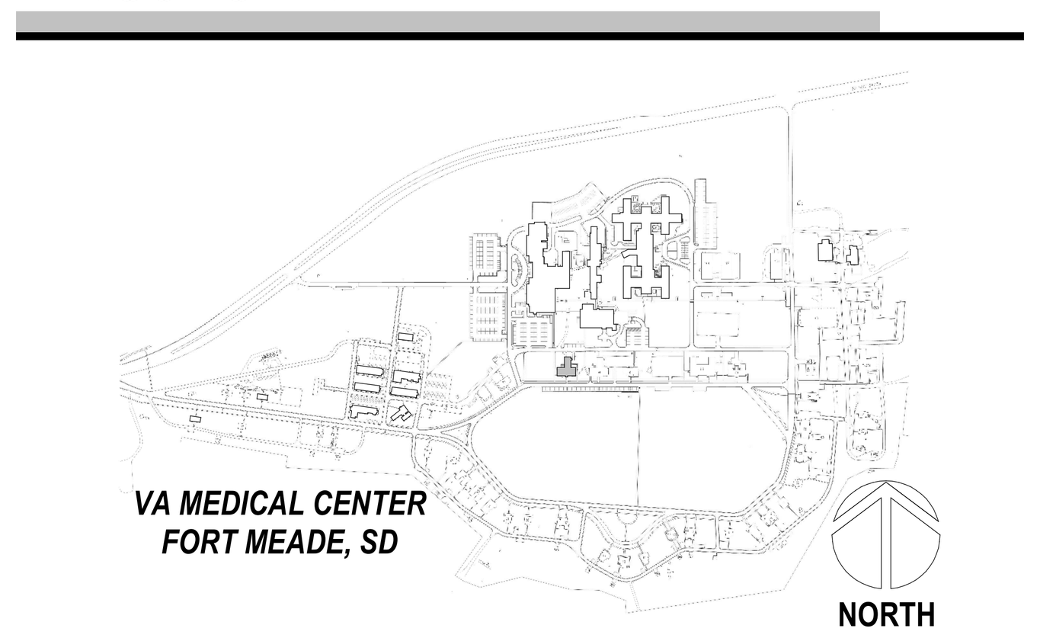
3 ENLARGED ROOM - TCB1 ELECTRICAL DEMOLITION
1/2" = 1'-0"



1 ELECTRICAL DEMOLITION PLAN - BUILDING 53 BASEMENT
1/8" = 1'-0"

2 ELECTRICAL DEMOLITION PLAN - BUILDING 53 FIRST FLOOR
1/8" = 1'-0"

PROJECT KEY PLAN



Revisions:	Date:

CONSULTANT
ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD
A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE	ELECTRICAL DEMOLITION PLANS
PHASE	100% CONSTRUCTION DOCUMENTS
PROJECT TITLE	EHRM INFRASTRUCTURE UPGRADES
PROJECT NUMBER	568-21-701
BUILDING NUMBER	53
APPROVED: Project Director	FOR OFFICIAL USE ONLY (FOUO)
FLS	FULLY SPRINKLERED
LOCATION	FORT MEADE, SOUTH DAKOTA
ISSUE DATE	11/05/2024
CHECKED BY	MER
DRAWN BY	AJW
DRAWING NUMBER	053-ED-0B1

VA FORM 08 - 6231

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	MODEL #	LAMP TYPE	CRI	DELIVERED LUMENS	COLOR TEMP	INPUT WATTS	FINISH
S1	LED STRIP LIGHT FIXTURE, LENSED, WHITE HOUSING, PROVIDE WITH E10WLCP EM DRIVER WHERE NOTED AS EMERGENCY ON PLANS.	LITHONIA	#ZL1N-L48-7000LM-FST-MVOLT-40K-80CRI-WH (E10WLCP)	LED	80	6785	4000K	52	WHITE

NOTES:

BLDG 53 - EQUIPMENT SCHEDULE

EQUIPMENT TAG	RATED VOLTAGE	VOLTAGE PHASE	HP	KW	FLA	MCA	MOCP	# PARALLEL CONDUCTORS	BRANCH CIRCUIT RACEWAY	BRANCH CIRCUIT PHASE	BRANCH CIRCUIT N	BRANCH CIRCUIT G	DISCONNECT SIZE	DISCONNECT FUSE	NOTES
MECHANICAL EQUIPMENT															
53-IU-1	208	1	-	-	0.3	14.0	15	-	3/4"	2#12	-	#12	-	-	3
53-OU-1	208	1	-	-	-	11.0	15	-	3/4"	2#12	-	#12	30	15	1
TELECOMMUNICATIONS EQUIPMENT															
RK-TCB1-1A	208	3	-	5.00	-	-	20	-	3/4"	3#12	-	#12	-	-	2
RK-TCB1-1B	208	3	-	5.00	-	-	20	-	3/4"	3#12	-	#12	-	-	2

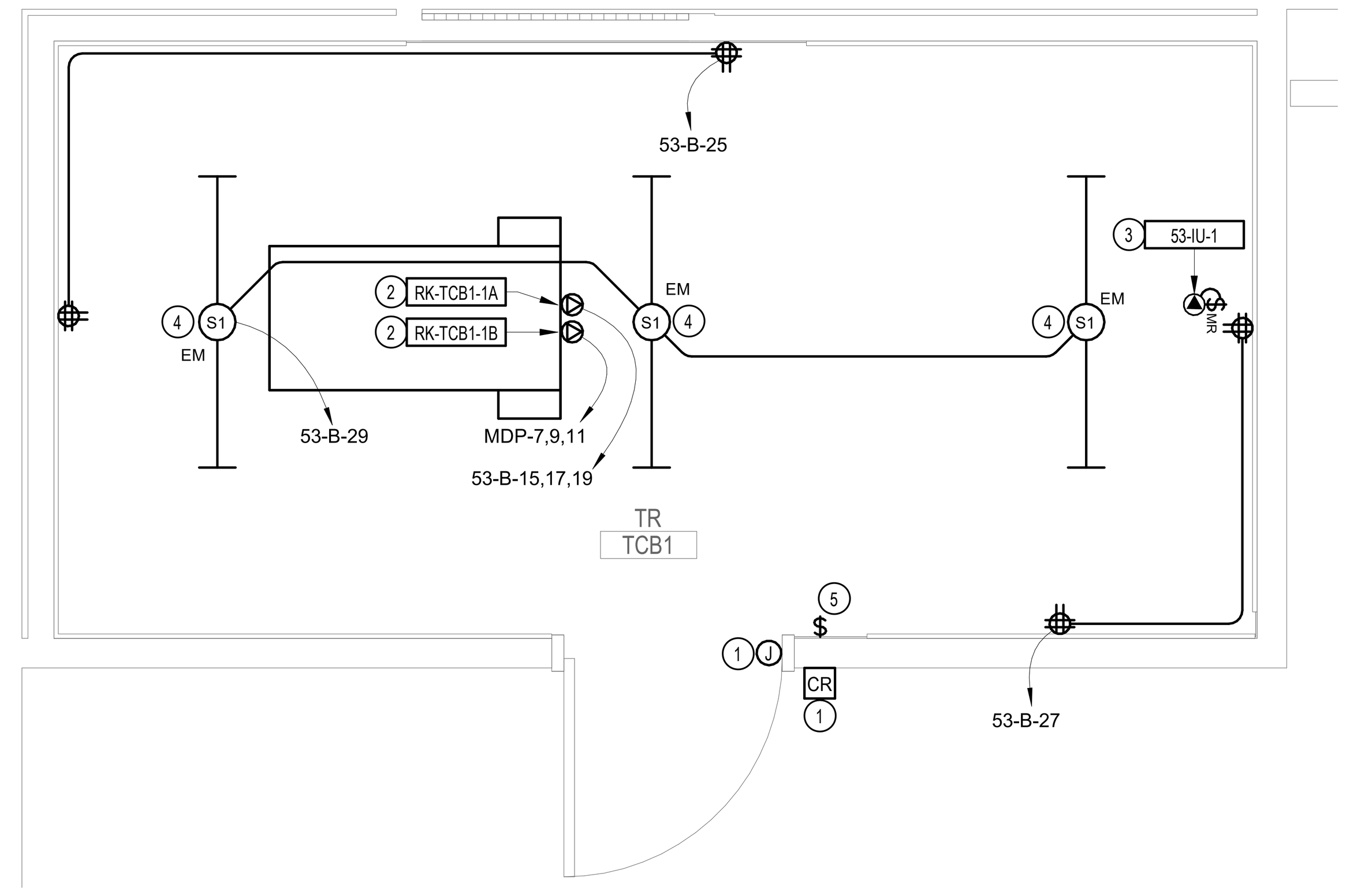
NOTES
1. PROVIDE NEW DISCONNECT.
2. PROVIDE NEMA L21-20R INTERLOCKING RECEPTACLE.
3. PROVIDE NEW MOTOR-RATED SWITCH.

GENERAL NOTES

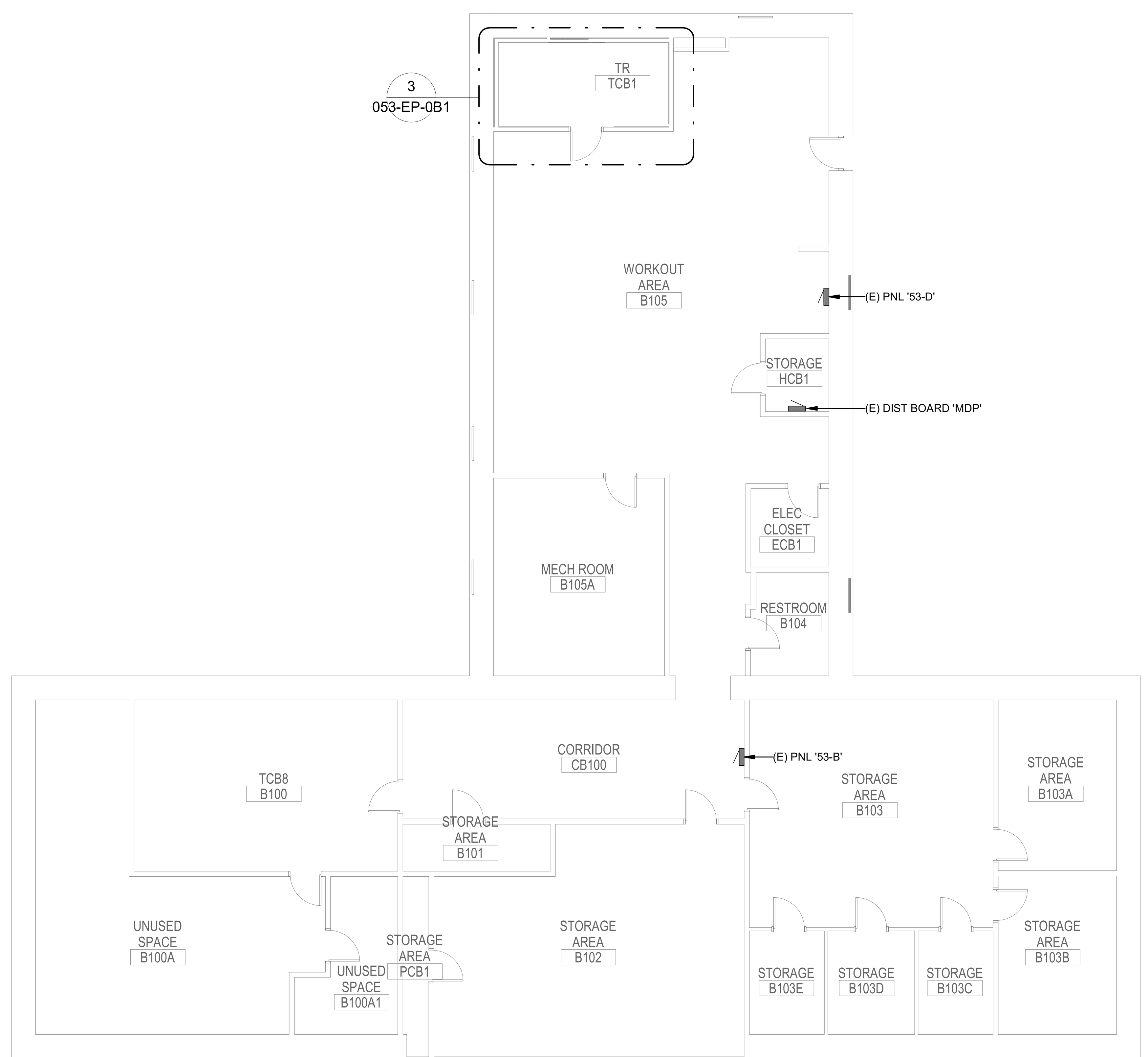
1. COORDINATE EXACT LOCATION OF MECHANICAL AND TELECOMMUNICATIONS EQUIPMENT WITH THE CORRESPONDING DISCIPLINE'S DRAWINGS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMOPORARILY MOVING AND RETURNING FURNITURE, FIXTURES, AND EQUIPMENT WITHIN SPACES AS REQUIRED TO COMPLETE EACH DAYS WORK. THE VA WILL REMOVE OR SECURE PHI,, PPI, AND PERSONALY PROPERTY. COORDINATE THIS WORK WITH THE COR.
3. REFER TO ASSOCIATED TN SHEETS FOR RACK QUANTITES IN EXISTING AND NEW TR SPACES.
4. REFER TO ELECTRICAL FEEDER SCHEDULES ON SHEET 000-EG-001 FOR CONDUIT AND CONDUCTOR FEEDER REQUIREMENTS.
5. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
6. CONDUIT ROUTING SHOWN IS SCHEMATIC BY DESIGN. CONTRACTOR SHALL VERIFY FEASIBILITY PRIOR TO INSTALLATION.

KEYNOTES

1 CONTRACTOR TO PROVIDE RACEWAY AND BOXES FOR ACCESS CONTROLS SYSTEM COMPONENTS.
2 CONTRACTOR TO PROVIDE NEW L21-20R RECEPTACLE FOR NEW RACK POWER. RECEPTACLE TO BE MOUNTED DIRECTLY ON CABLE TRAY.
3 INDOOR MECHANICAL UNIT FED BY OUTDOOR MECHANICAL UNIT. PROVIDE NEW MOTOR-RATED SWITCH AND ALL CONDUIT AND CONDUCTORS FROM CONTROLS TO INDOOR UNIT AS REQUIRED FOR COMPLETE OPERATION.
4 CONTRACTOR TO PROVIDE NEW LIGHT FIXTURE. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION. REFER TO LIGHT FIXTURE SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION AMD REQUIREMENTS.
5 CONTRACTOR TO PROVIDE NEW LIGHT SWITCH. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION.
6 CONTRACTOR TO PROVIDE CONDUIT AND CONDUCTORS FOR NEW OUTDOOR MECHANICAL UNIT. SEE ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.
7 CONTRACTOR TO PROVIDE NEW DISCONNECT WITH NEW FUSES FOR NEW MECHANICAL EQUIPMENT. SEE ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.
8 CONTRACTOR TO PROVIDE WET-RATED CONVENIANCE RECEPTACLE. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION AND WEATHER PROTECTION.



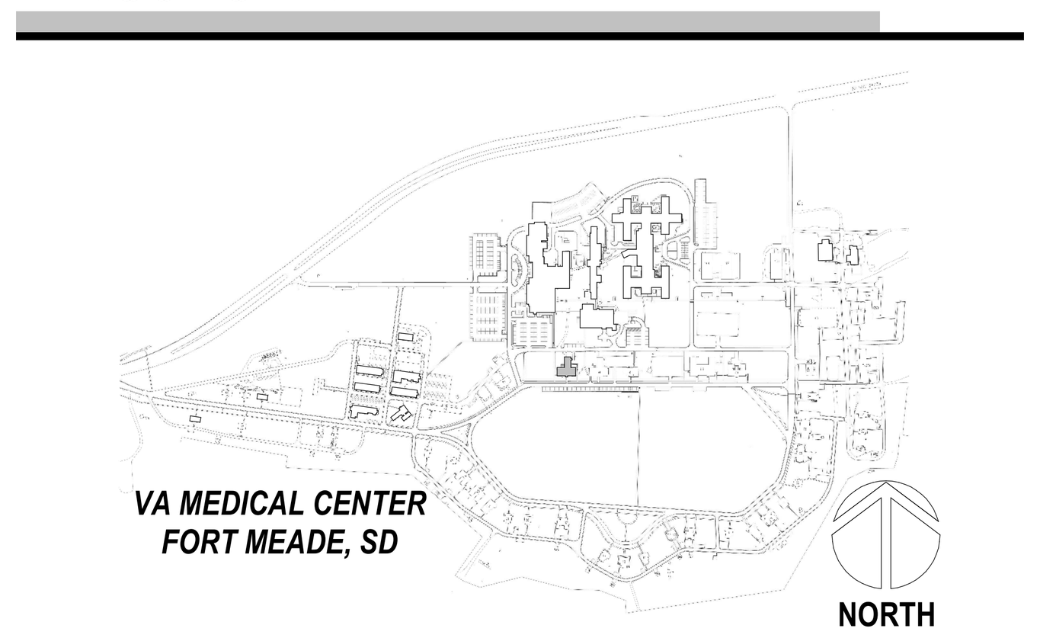
3 ENLARGED ROOM - TCB1 ELECTRICAL REMODEL
1/2" = 1'-0"



1 ELECTRICAL REMODEL PLAN - BUILDING 53 BASEMENT
1/8" = 1'-0"

2 ELECTRICAL REMODEL PLAN - BUILDING 53 FIRST FLOOR
1/8" = 1'-0"

PROJECT KEY PLAN



Revisions:	Date:

CONSULTANT
ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD
A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: ELECTRICAL REMODEL PLAN - BASEMENT AND FIRST FLOOR

APPROVED: Project Director

FOR OFFICIAL USE ONLY (FOUO)

PHASE: 100% CONSTRUCTION DOCUMENTS

FLS: FULLY SPRINKLERED

PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES

LOCATION: FORT MEADE, SOUTH DAKOTA

ISSUE DATE	CHECKED BY	DRAWN BY
11/05/2024	MER	AJW

PROJECT NUMBER: 568-21-701

BUILDING NUMBER: 53

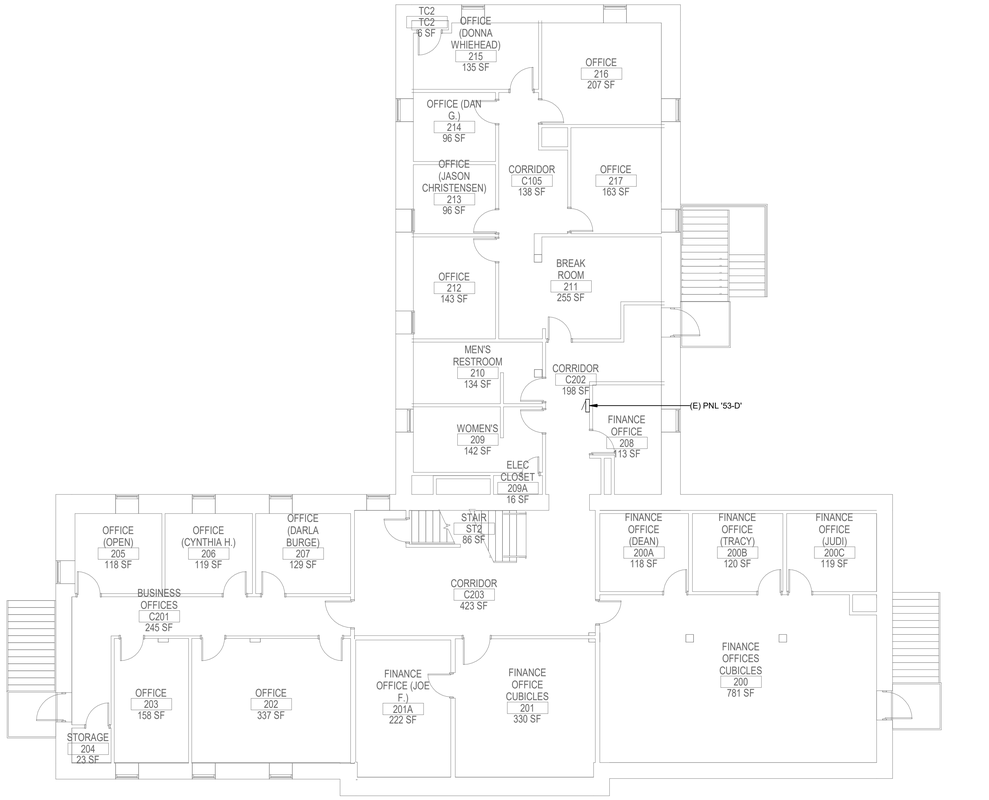
DRAWING NUMBER: 053-EP-0B1

VA FORM 08 - 6231

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

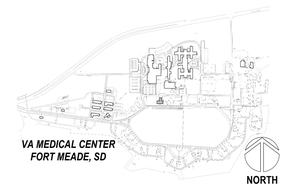
GENERAL NOTES

1. COORDINATE EXACT LOCATION OF MECHANICAL AND TELECOMMUNICATIONS EQUIPMENT WITH THE CORRESPONDING DISCIPLINE'S DRAWINGS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMOPORARILY MOVING AND RETURNING FURNITURE, FIXTURES, AND EQUIPMENT WITHIN SPACES AS REQUIRED TO COMPLETE EACH DAYS WORK. THE VA WILL REMOVE OR SECURE PHI, , PPI, AND PERSONALY PROPERTY. COORDINATE THIS WORK WITH THE COR.
3. REFER TO ASSOCIATED TN SHEETS FOR RACK QUANTITES IN EXISTING AND NEW TR SPACES.
4. REFER TO ELECTRICAL FEEDER SCHEDULES ON SHEET 000-EG-001 FOR CONDUIT AND CONDUCTOR FEEDER REQUIREMENTS.
5. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
6. CONDUIT ROUTING SHOWN IS SCHEMATIC BY DESIGN. CONTRACTOR SHALL VERIFY FEASIBILITY PRIOR TO INSTALLATION.



1 ELECTRICAL REMODEL PLAN - BUILDING 53 SECOND FLOOR
1/8" = 1'-0"

PROJECT KEY PLAN



VA MEDICAL CENTER FORT MEADE, SD

NORTH

Revisions:	Date:

CONSULTANT

ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD

A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

EDWARD A. GODDIN — STATE OF WASHINGTON — 43779 — REGISTERED PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: ELECTRICAL REMODEL PLAN - SECOND FLOOR AND ATTIC

APPROVED: Project Director

FOR OFFICIAL USE ONLY (FOUO)

PHASE: 100% CONSTRUCTION DOCUMENTS

FLS: FULLY SPRINKLERED

PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES

LOCATION: FORT MEADE, SOUTH DAKOTA

ISSUE DATE: 08/26/2024 | CHECKED BY: MER | DRAWN BY: AJW

PROJECT NUMBER: 568-21-701

BUILDING NUMBER: 53

DRAWING NUMBER: 053-EP-021

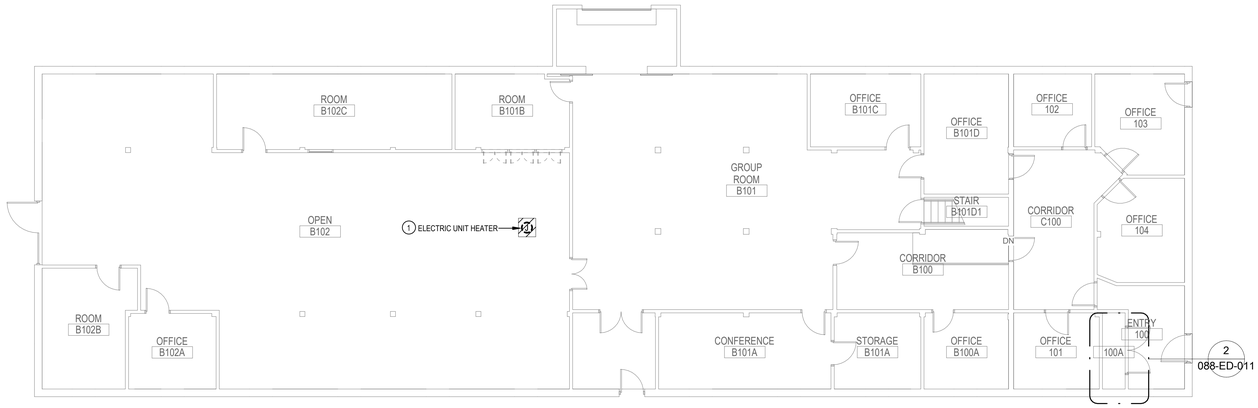
VA FORM 08 - 6231

GENERAL DEMOLITION NOTES

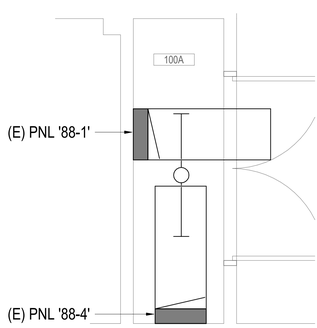
1. CONTRACTOR SHALL COORDINATE ALL OUTAGES WITH THE COR PRIOR TO BEGINNING WORK. GREAT CARE SHALL BE TAKEN TO MINIMIZE OUTAGE DURATION TO SHORTEST EXTENT POSSIBLE. NO DEMOLITION SHALL OCCUR ON THE UPS SYSTEM, LIFE SAFETY SYSTEM, TELECOMMUNICATIONS SYSTEM, OR ANY OTHER CRITICAL SYSTEM UNTIL THE NEW/REPLACEMENT SYSTEMS ARE IN PLACE AND READY FOR SWITCHOVER.
2. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM RECORD DRAWINGS AND/OR A NON-DESTRUCTIVE WALKTHROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.
3. THE COR SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS. THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A WAREHOUSE AS DIRECTED BY THE COR. THE CONTRACTOR SHALL DISPOSE OF, OFF SITE, ALL UNWANTED MATERIALS.
4. DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
5. COORDINATE WITH THE OTHER DISCIPLINE DRAWINGS FOR AREAS OF DEMOLITION AND NEW WORK. PROVIDE MINOR RELOCATION OF LIGHT FIXTURES AND DEVICES TO ACCOMMODATE NEW MECHANICAL AND TELECOM EQUIPMENT LOCATIONS.
6. FOR WALL/CEILINGS SCHEDULED TO BE DEMOLISHED, DEMOLISH ALL CONDUIT, WIRE, DEVICES, BOXES, ETC. BACK TO THE EXTENT PRACTICAL TO ACCOMMODATE DEMOLITION. RELOCATE EXISTING LIGHT FIXTURES, DEVICES, CONDUIT, AND WIRE AS REQUIRED. PROVIDE EXTENSION OF CONDUIT AND WIRE AS REQUIRED TO ACCOMMODATE RELOCATED ITEMS.
7. FOR THE RENOVATED TELECOMMUNICATIONS ROOMS WITH NEW PAINTED PLYWOOD WALLS, CONTRACTOR SHALL DISCONNECT AND TEMPORARILY REMOVE ALL ELECTRICAL DEVICES, BOXES, CONDUIT, AND WIRE TO ALLOW FOR PLYWOOD INSTALLATION. REINSTALL ALL DEVICES BACK IN SAME LOCATIONS AND PROVIDE BOX EXTENSIONS, CIRCUIT EXTENSIONS, ETC. AS REQUIRED TO ACCOMMODATE RENOVATION.
8. COORDINATE WITH THE OTHER DISCIPLINE DRAWINGS FOR AREAS OF DEMOLITION AND NEW WORK.
9. LIGHTING AND RECEPTACLES SHALL REMAIN IN EXISTING TELECOM ROOMS. NO DEMOLITION UNLESS OTHERWISE NOTED

KEYNOTES

1 EXISTING MECHANICAL UNIT TO BE RELOCATED BY MECHANICAL. REFER TO ASSOCIATED 'EP' SHEET FOR NEW LOCATION OF MECHANICAL UNIT.



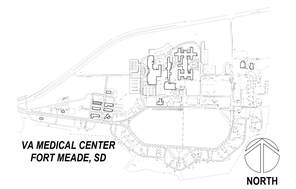
1 ELECTRICAL DEMOLITION PLAN - BLDG 88 FIRST FLOOR
1/8" = 1'-0"



2 ENLARGED ROOM - 100A ELECTRICAL DEMOLITION
1/2" = 1'-0"

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

PROJECT KEY PLAN



VA MEDICAL CENTER FORT MEADE, SD

NORTH

Revisions:	Date:

CONSULTANT

ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD

A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

ADAM EDWARD GODDIN — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: ELECTRICAL DEMOLITION PLAN
PHASE: 100% CONSTRUCTION DOCUMENTS
PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES
PROJECT NUMBER: 568-21-701
BUILDING NUMBER: 88
APPROVED: Project Director
FLS: FULLY SPRINKLERED
LOCATION: FORT MEADE, SOUTH DAKOTA
DRAWING NUMBER: 088-ED-011
ISSUE DATE: 11/05/2024
CHECKED BY: MER
DRAWN BY: AJW

FOR OFFICIAL USE ONLY (FOUO)

VA FORM 08 - 6231

BLDG 88 - EQUIPMENT SCHEDULE															
EQUIPMENT TAG	RATED VOLTAGE	VOLTAGE PHASE	HP	KW	FLA	MCA	MOCP	# PARALLEL CONDUCTORS	BRANCH CIRCUIT				DISCONNECT		NOTES
									RACEWAY	PHASE	N	G	SIZE	FUSE	
MECHANICAL EQUIPMENT															
88-IU-1	208	1	-	-	0.3	14.0	15	-	3/4"	2#12	-	#12	-	-	3
88-OU-1	208	1	-	-	-	24.0	35	-	3/4"	2#8	-	#10	60	35	1
TELECOMMUNICATIONS EQUIPMENT															
RK-B102D-1A	208	3	-	5.00	-	-	20	-	3/4"	3#12	1#12	#12	-	-	2
RK-B102D-1B	208	3	-	5.00	-	-	20	-	3/4"	3#12	1#12	#12	-	-	2

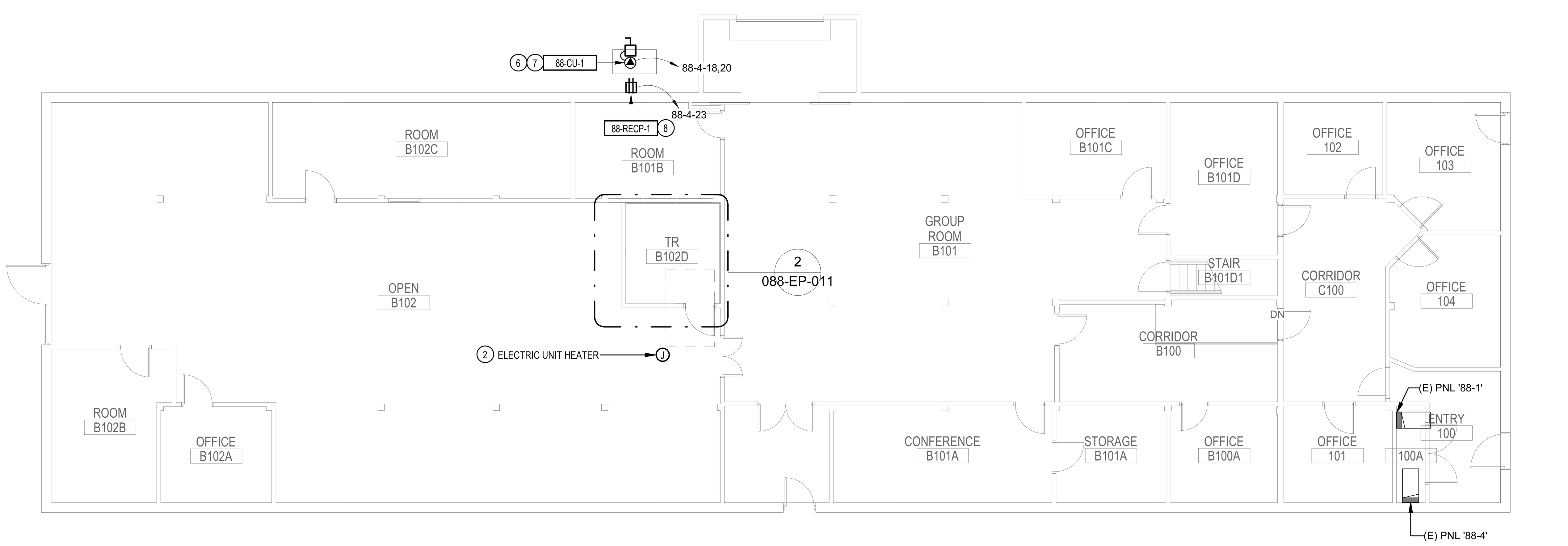
NOTES
1. PROVIDE NEW DISCONNECT.
2. PROVIDE NEMA L21-20R INTERLOCKING RECEPTACLE.
3. PROVIDE NEW MOTOR-RATED SWITCH.

LUMINAIRE SCHEDULE									
TYPE	DESCRIPTION	MANUFACTURER	MODEL #	LAMP TYPE	CRI	DELIVERED LUMENS	COLOR TEMP	INPUT WATTS	FINISH
S1	LED STRIP LIGHT FIXTURE, LENSED, WHITE HOUSING, PROVIDE WITH E10WLCP EM DRIVER WHERE NOTED AS EMERGENCY ON PLANS.	LITHONIA	#ZL1N-L48-7000LM-FST-MVOLT-40K-80CRI-WH (E10WLCP)	LED	80	6785	4000K	52	WHITE

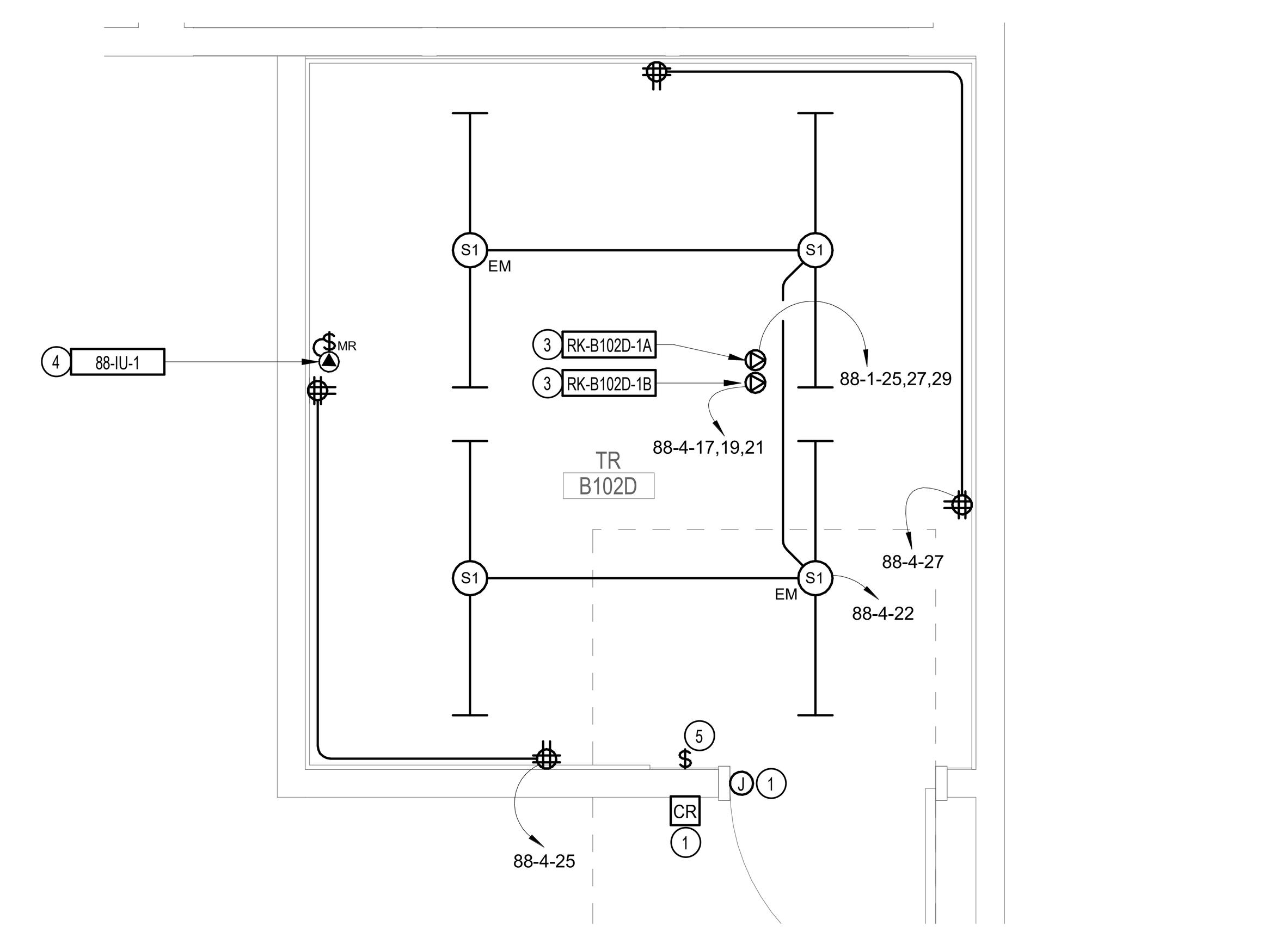
NOTES:

GENERAL NOTES
1. COORDINATE EXACT LOCATION OF MECHANICAL AND TELECOMMUNICATIONS EQUIPMENT WITH THE CORRESPONDING DISCIPLINE'S DRAWINGS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMOPORARILY MOVING AND RETURNING FURNITURE, FIXTURES, AND EQUIPMENT WITHIN SPACES AS REQUIRED TO COMPLETE EACH DAYS WORK. THE VA WILL REMOVE OR SECURE PHI,, PPI, AND PERSONALY PROPERTY. COORDINATE THIS WORK WITH THE COR.
3. REFER TO ASSOCIATED TN SHEETS FOR RACK QUANTITES IN EXISTING AND NEW TR SPACES.
4. REFER TO ELECTRICAL FEEDER SCHEDULES ON SHEET 000-EG-001 FOR CONDUIT AND CONDUCTOR FEEDER REQUIREMENTS.
5. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
6. CONDUIT ROUTING SHOWN IS SCHEMATIC BY DESIGN. CONTRACTOR SHALL VERIFY FEASIBILITY PRIOR TO INSTALLATION.

KEYNOTES
1 CONTRACTOR TO PROVIDE RACEWAY AND BOXES FOR ACCESS CONTROLS SYSTEM COMPONENTS.
2 NEW LOCATION OF EXISTING MECHANICAL UNIT. REROUTE EXISTING CONDUIT AND CONDUCTORS TO RELOCATED MACHANICAL UNIT AS REQUIRED FOR COMPLETE OPERATION.
3 CONTRACTOR TO PROVIDE NEW L21-20R RECEPTACLE FOR NEW RACK POWER. RECEPTACLE TO BE MOUNTED DIRECTLY ON CABLE TRAY.
4 INDOOR MECHANICAL UNIT FED BY OUTDOOR MECHANICAL UNIT. PROVIDE NEW MOTOR-RATED SWITCH AND ALL CONDUIT AND CONDUCTORS FROM CONTROLS TO INDOOR UNIT AS REQUIRED FOR COMPLETE OPERATION.
5 CONTRACTOR TO PROVIDE NEW LIGHT SWITCH. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION.
6 CONTRACTOR TO PROVIDE CONDUIT AND CONDUCTORS FOR NEW OUTDOOR MECHANICAL UNIT. SEE ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.
7 CONTRACTOR TO PROVIDE NEW DISCONNECT WITH NEW FUSES FOR NEW MECHANICAL EQUIPMENT. SEE ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.
8 CONTRACTOR TO PROVIDE WET-RATED CONVENIANCE RECEPTACLE. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION AND WEATHER PROTECTION.



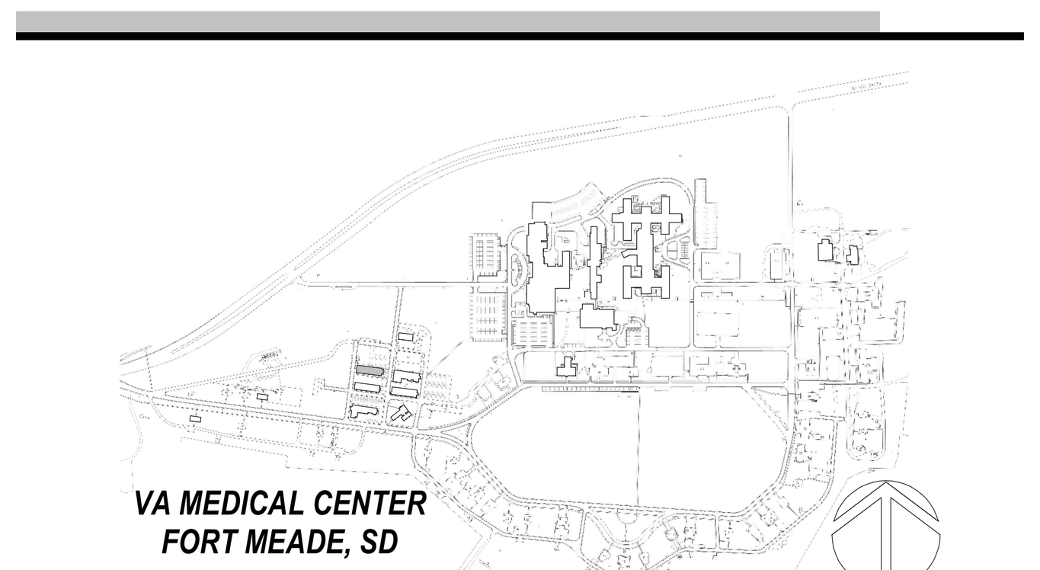
1 ELECTRICAL REMODEL PLAN - BLDG 88 FIRST FLOOR
1/8" = 1'-0"



2 ENLARGED ROOM - B102D ELECTRICAL REMODEL1
1/2" = 1'-0"

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

PROJECT KEY PLAN



Revisions:	Date:

CONSULTANT
ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD
A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT
VA U.S. Department of Veterans Affairs

DRAWING TITLE: ELECTRICAL REMODEL PLAN
PHASE: 100% CONSTRUCTION DOCUMENTS
PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES
PROJECT NUMBER: 568-21-701
BUILDING NUMBER: 88
APPROVED: Project Director
FOR OFFICIAL USE ONLY (FOUO)
FLS: FULLY SPRINKLERED
LOCATION: FORT MEADE, SOUTH DAKOTA
ISSUE DATE: 11/05/2024
CHECKED BY: MER
DRAWN BY: AJW
DRAWING NUMBER: 088-EP-011

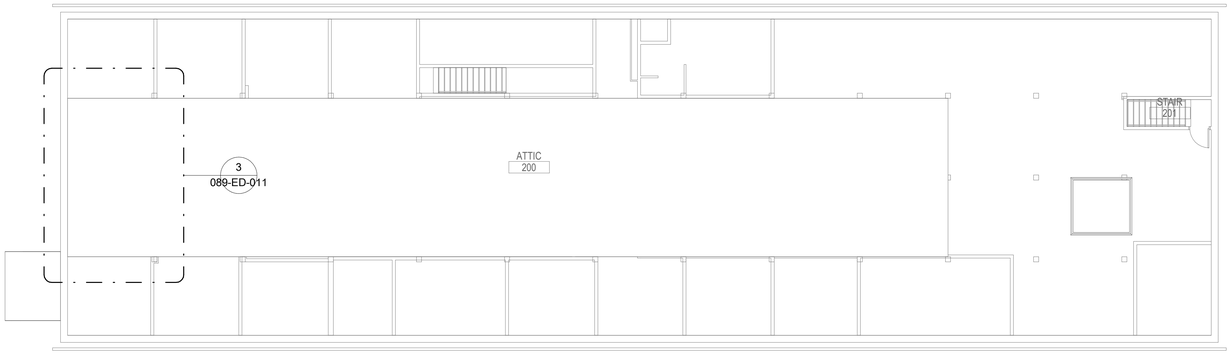
VA FORM 08 - 6231

GENERAL DEMOLITION NOTES

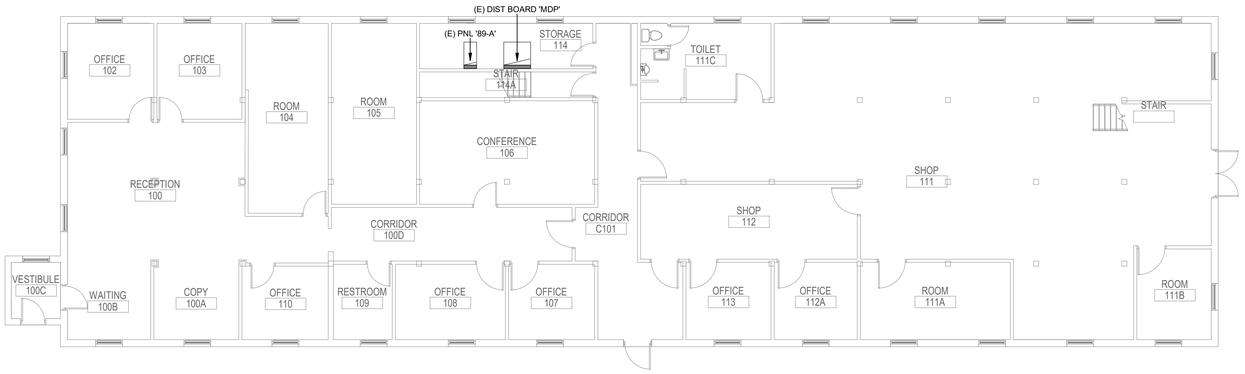
1. CONTRACTOR SHALL COORDINATE ALL OUTAGES WITH THE COR PRIOR TO BEGINNING WORK. GREAT CARE SHALL BE TAKEN TO MINIMIZE OUTAGE DURATION TO SHORTEST EXTENT POSSIBLE. NO DEMOLITION SHALL OCCUR ON THE UPS SYSTEM, LIFE SAFETY SYSTEM, TELECOMMUNICATIONS SYSTEM, OR ANY OTHER CRITICAL SYSTEM UNTIL THE NEW/REPLACEMENT SYSTEMS ARE IN PLACE AND READY FOR SWITCHOVER.
2. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM RECORD DRAWINGS AND/OR A NON-DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.
3. THE COR SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS. THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A WAREHOUSE AS DIRECTED BY THE COR. THE CONTRACTOR SHALL DISPOSE OF, OFF SITE, ALL UNWANTED MATERIALS.
4. DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
5. COORDINATE WITH THE OTHER DISCIPLINE DRAWINGS FOR AREAS OF DEMOLITION AND NEW WORK. PROVIDE MINOR RELOCATION OF LIGHT FIXTURES AND DEVICES TO ACCOMMODATE NEW MECHANICAL AND TELECOM EQUIPMENT LOCATIONS.
6. FOR WALL/CEILINGS SCHEDULED TO BE DEMOLISHED, DEMOLISH ALL CONDUIT, WIRE, DEVICES, BOXES, ETC. BACK TO THE EXTENT PRACTICAL TO ACCOMMODATE DEMOLITION. RELOCATE EXISTING LIGHT FIXTURES, DEVICES, CONDUIT, AND WIRE AS REQUIRED. PROVIDE EXTENSION OF CONDUIT AND WIRE AS REQUIRED TO ACCOMMODATE RELOCATED ITEMS.
7. FOR THE RENOVATED TELECOMMUNICATIONS ROOMS WITH NEW PAINTED PLYWOOD WALLS, CONTRACTOR SHALL DISCONNECT AND TEMPORARILY REMOVE ALL ELECTRICAL DEVICES, BOXES, CONDUIT, AND WIRE TO ALLOW FOR PLYWOOD INSTALLATION. REINSTALL ALL DEVICES BACK IN SAME LOCATIONS AND PROVIDE BOX EXTENSIONS, CIRCUIT EXTENSIONS, ETC. AS REQUIRED TO ACCOMMODATE RENOVATION.
8. COORDINATE WITH THE OTHER DISCIPLINE DRAWINGS FOR AREAS OF DEMOLITION AND NEW WORK.
9. LIGHTING AND RECEPTACLES SHALL REMAIN IN EXISTING TELECOM ROOMS. NO DEMOLITION UNLESS OTHERWISE NOTED

KEYNOTES

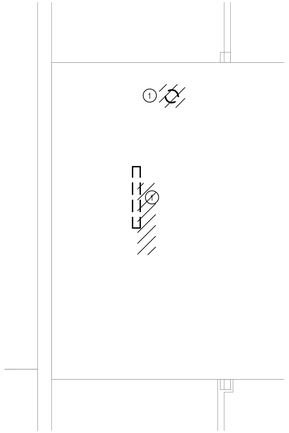
1 LIGHT FIXTURE TO BE REMOVED. CONTRACTOR TO REMOVE EXISTING CONDUIT AND CONDUCTORS BACK TO SOURCE. MAINTAIN CIRCUIT CONTINUITY FOR EXISTING LIGHT FIXTURES TO REMAIN.



2 ELECTRICAL DEMOLITION PLAN - BLDG 89 SECOND FLOOR
1/8" = 1'-0"

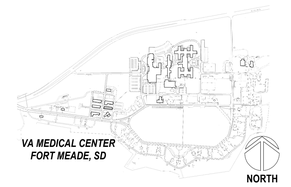


1 ELECTRICAL DEMOLITION PLAN - BLDG 89 FIRST FLOOR
1/8" = 1'-0"



3 ENLARGED ROOM - 202 ELECTRICAL DEMOLITION
1/4" = 1'-0"

PROJECT KEY PLAN



VA MEDICAL CENTER
FORT MEADE, SD

NORTH

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

Revisions:	Date:

CONSULTANT

ELECTRICAL ENGINEER
GDM
1308 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICAHEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD

A/E
GDM
1308 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

EDWARD GODDIN — STATE OF WASHINGTON — 81702 — REGISTERED PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: ELECTRICAL DEMOLITION PLAN	PHASE: 100% CONSTRUCTION DOCUMENTS	PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES	PROJECT NUMBER: 568-21-701
			BUILDING NUMBER: 89
APPROVED: Project Director	FLS	LOCATION: FORT MEADE, SOUTH DAKOTA	DRAWING NUMBER: 089-ED-011
FOR OFFICIAL USE ONLY (FOUO)	FULLY SPRINKLERED	ISSUE DATE: 11/05/2024 / CHECKED BY: MER / DRAWN BY: AJW	

VA FORM 08 - 6231

BLDG 89 - EQUIPMENT SCHEDULE															
EQUIPMENT TAG	RATED VOLTAGE	VOLTAGE PHASE	HP	KW	FLA	MCA	MOCP	# PARALLEL CONDUCTORS	BRANCH CIRCUIT				DISCONNECT		NOTES
									RACEWAY	PHASE	N	G	SIZE	FUSE	
MECHANICAL EQUIPMENT															
89-IU-1	208	1	-	-	0.3	14.0	15	-	3/4"	2#12	-	#12	-	-	3
89-OU-1	208	1	-	-	-	24.0	35	-	3/4"	2#8	-	#10	60	35	1
TELECOMMUNICATIONS EQUIPMENT															
RK-202-1A	208	3	-	5.00	-	-	20	-	3/4"	3#12	1#12	#12	-	-	2
RK-202-1B	208	3	-	5.00	-	-	20	-	3/4"	3#12	1#12	#12	-	-	2

NOTES
1. PROVIDE NEW DISCONNECT.
2. PROVIDE NEMA L21-20R INTERLOCKING RECEPTACLE.
3. PROVIDE NEW MOTOR-RATED SWITCH.

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	MODEL #	LAMP TYPE	CRI	DELIVERED LUMENS	COLOR TEMP	INPUT WATTS	FINISH
S1	LED STRIP LIGHT FIXTURE, LENSED, WHITE HOUSING, PROVIDE WITH E10WLCP EM DRIVER WHERE NOTED AS EMERGENCY ON PLANS.	LITHONIA	#ZL1N-L48-7000LM-FST-MVOLT-40K-80CRI-WH (E10WLCP)	LED	80	6,785	4000K	52	WHITE

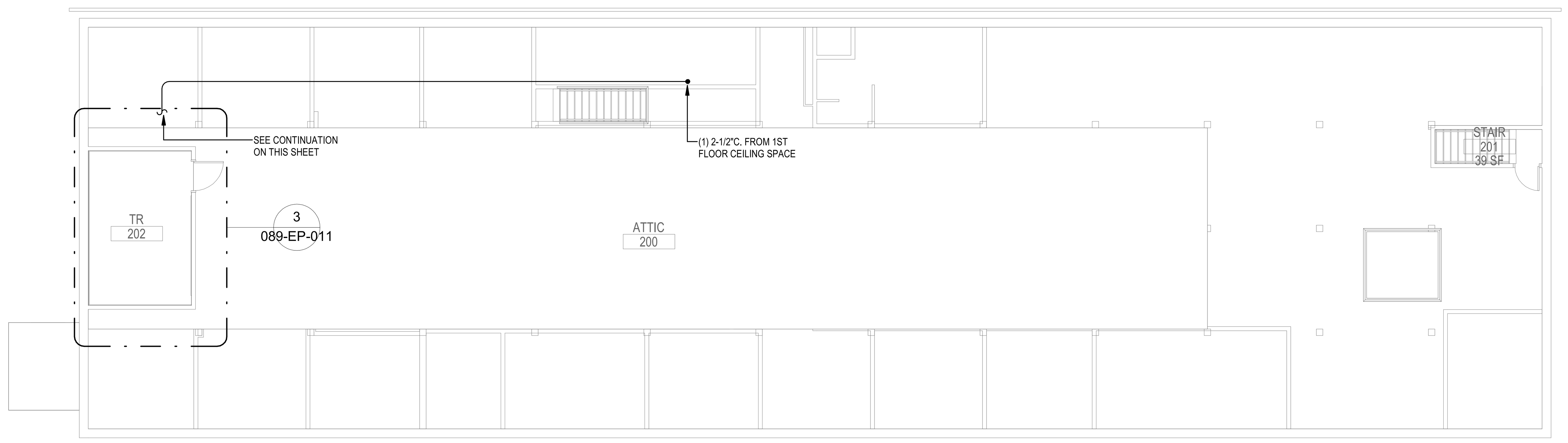
NOTES:

GENERAL NOTES

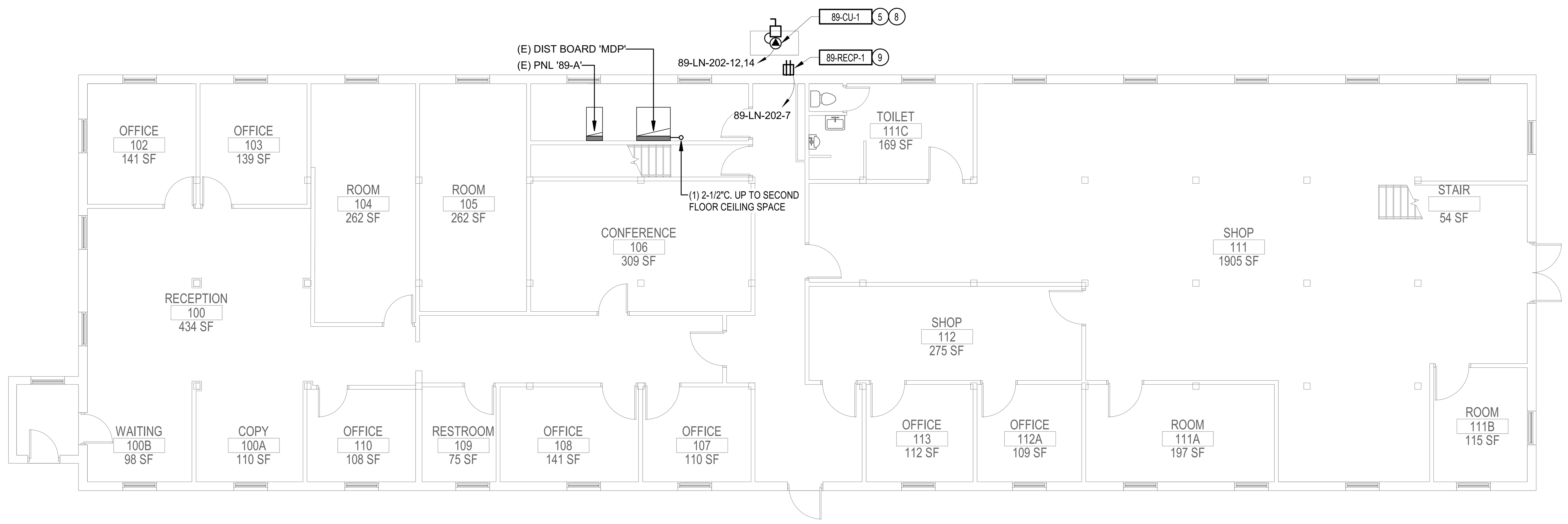
1. COORDINATE EXACT LOCATION OF MECHANICAL AND TELECOMMUNICATIONS EQUIPMENT WITH THE CORRESPONDING DISCIPLINE'S DRAWINGS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMOPORARILY MOVING AND RETURNING FURNITURE, FIXTURES, AND EQUIPMENT WITHIN SPACES AS REQUIRED TO COMPLETE EACH DAYS WORK. THE VA WILL REMOVE OR SECURE PHI,, PPI, AND PERSONALY PROPERTY. COORDINATE THIS WORK WITH THE COR.
3. REFER TO ASSOCIATED TN SHEETS FOR RACK QUANTITES IN EXISTING AND NEW TR SPACES.
4. REFER TO ELECTRICAL FEEDER SCHEDULES ON SHEET 000-EG-001 FOR CONDUIT AND CONDUCTOR FEEDER REQUIREMENTS.
5. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
6. CONDUIT ROUTING SHOWN IS SCHEMATIC BY DESIGN. CONTRACTOR SHALL VERIFY FEASIBILITY PRIOR TO INSTALLATION.

KEYNOTES

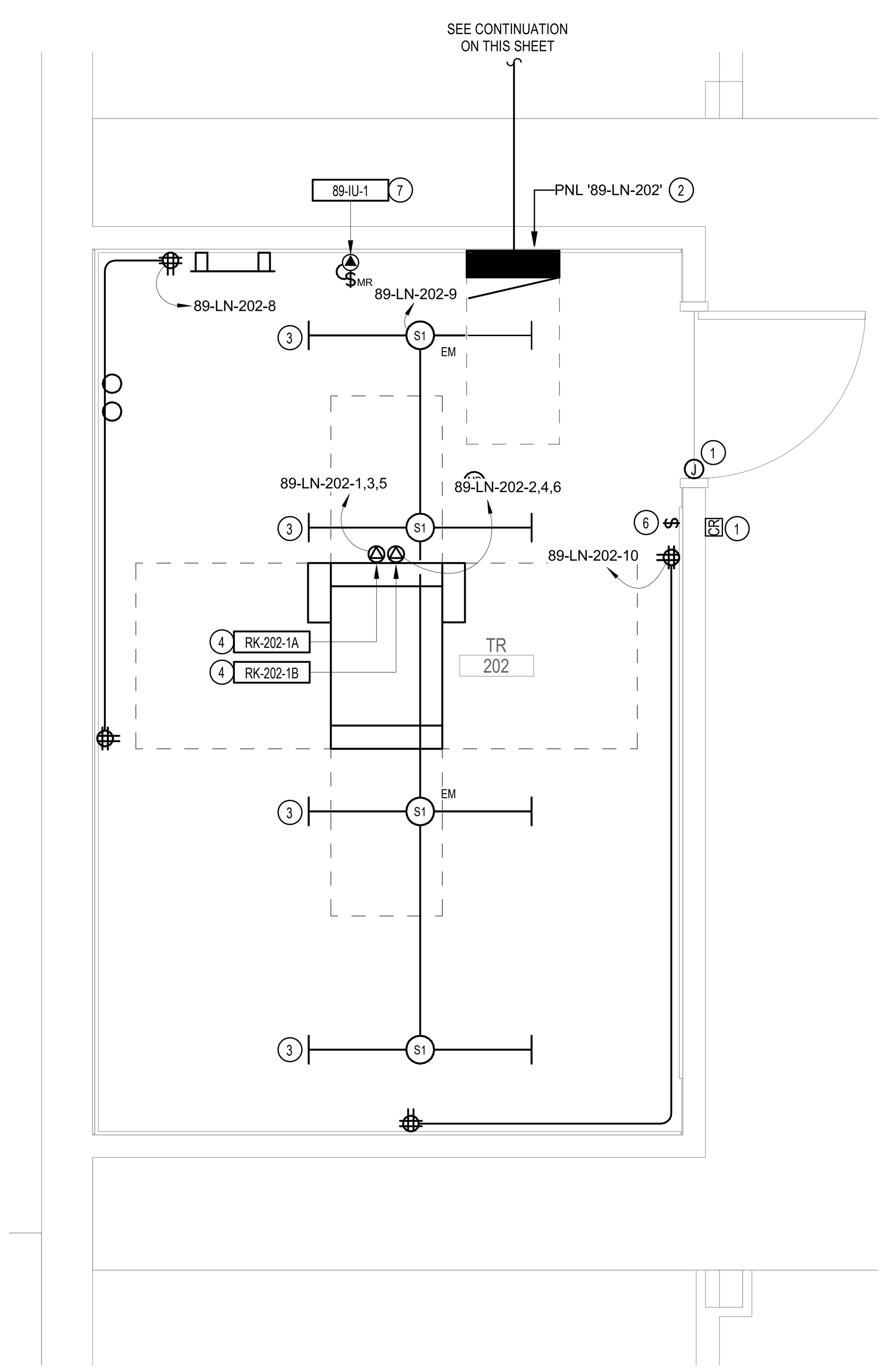
1 CONTRACTOR TO PROVIDE RACEWAY AND BOXES FOR ACCESS CONTROLS SYSTEM COMPONENTS.
2 CONTRACTOR TO PROVIDE NEW 208Y/120V, 100A, PANELBOARD. CONTRACTOR TO PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION. REFER TO FEEDER SCHEDULE ON 000-EG-001 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
3 CONTRACTOR TO PROVIDE NEW LIGHT FIXTURE. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION. REFER TO LIGHT FIXTURE SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION AMD REQUIREMENTS.
4 CONTRACTOR TO PROVIDE NEW L21-20R RECEPTACLE FOR NEW RACK POWER. RECEPTACLE TO BE MOUNTED DIRECTLY ON CABLE TRAY.
5 CONTRACTOR TO PROVIDE NEW DISCONNECT WITH NEW FUSES FOR NEW MECHANICAL EQUIPMENT. SEE ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.
6 CONTRACTOR TO PROVIDE NEW LIGHT SWITCH. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION.
7 INDOOR MECHANICAL UNIT FED BY OUTDOOR MECHANICAL UNIT. PROVIDE NEW MOTOR-RATED SWITCH AND ALL CONDUIT AND CONDUCTORS FROM CONTROLS TO INDOOR UNIT AS REQUIRED FOR COMPLETE OPERATION.
8 CONTRACTOR TO PROVIDE CONDUIT AND CONDUCTORS FOR NEW OUTDOOR MECHANICAL UNIT. SEE ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.
9 CONTRACTOR TO PROVIDE WET-RATED CONVENIANCE RECEPTACLE. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION AND WEATHER PROTECTION.



2 ELECTRICAL REMODEL PLAN - BLDG 89 SECOND FLOOR
1/8" = 1'-0"

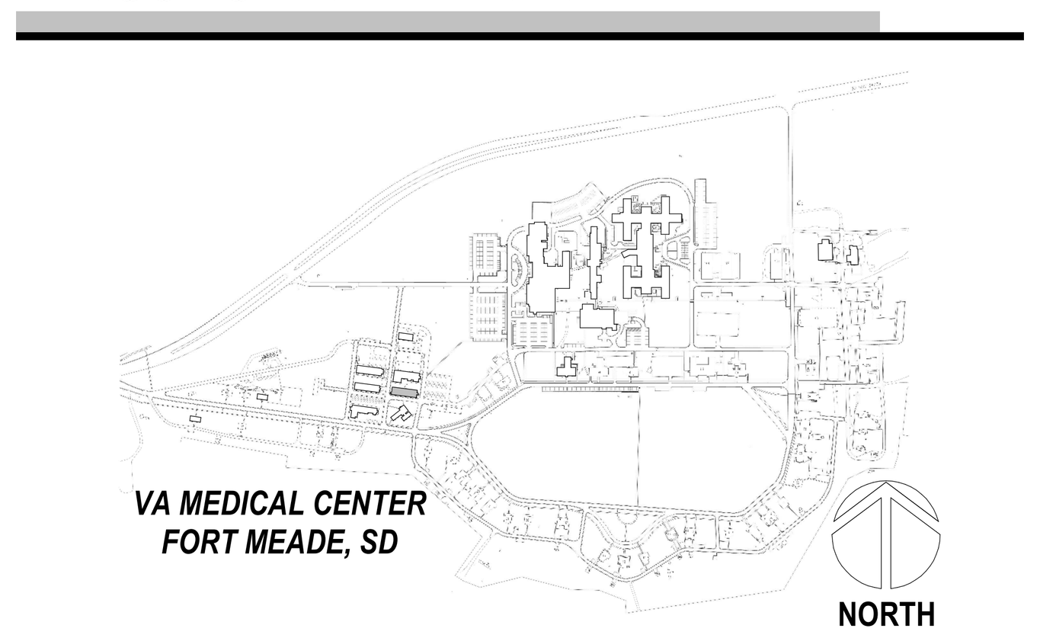


1 ELECTRICAL REMODEL PLAN - BLDG 89 FIRST FLOOR
1/8" = 1'-0"



3 ENLARGED ROOM - 202 ELECTRICAL REMODEL
1/2" = 1'-0"

PROJECT KEY PLAN



THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

Revisions:	Date:

CONSULTANT

ELECTRICAL ENGINEER
GDM
1308 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICAHEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD

A/E
GDM
1308 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: ELECTRICAL REMODEL PLAN

PHASE: 100% CONSTRUCTION DOCUMENTS

APPROVED: Project Director

FOR OFFICIAL USE ONLY (FOUO)

FLS: FULLY SPRINKLERED

PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES

LOCATION: FORT MEADE, SOUTH DAKOTA

ISSUE DATE	CHECKED BY	DRAWN BY
11/05/2024	MER	AJW

PROJECT NUMBER: 568-21-701

BUILDING NUMBER: 89

DRAWING NUMBER: 089-EP-011

GENERAL DEMOLITION NOTES

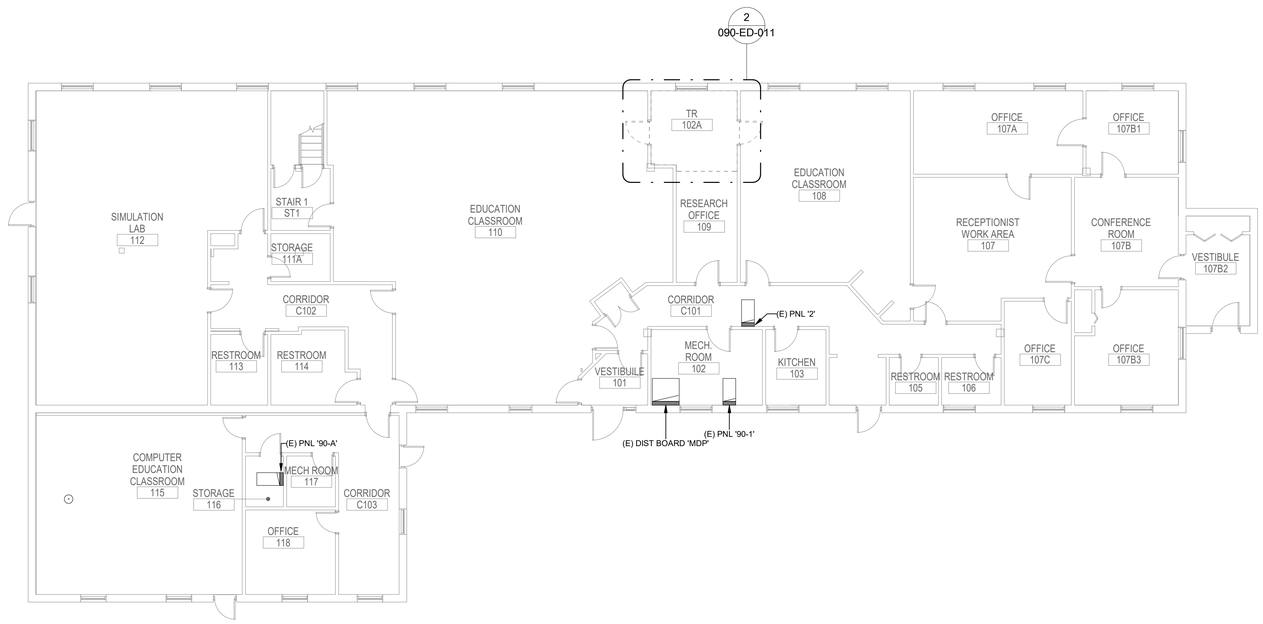
1. CONTRACTOR SHALL COORDINATE ALL OUTAGES WITH THE COR PRIOR TO BEGINNING WORK. GREAT CARE SHALL BE TAKEN TO MINIMIZE OUTAGE DURATION TO SHORTEST EXTENT POSSIBLE. NO DEMOLITION SHALL OCCUR ON THE UPS SYSTEM, LIFE SAFETY SYSTEM, TELECOMMUNICATIONS SYSTEM, OR ANY OTHER CRITICAL SYSTEM UNTIL THE NEW/REPLACEMENT SYSTEMS ARE IN PLACE AND READY FOR SWITCHOVER.
2. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM RECORD DRAWINGS AND/OR A NON-DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.
3. THE COR SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS. THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A WAREHOUSE AS DIRECTED BY THE COR. THE CONTRACTOR SHALL DISPOSE OF, OFF SITE, ALL UNWANTED MATERIALS.
4. DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
5. COORDINATE WITH THE OTHER DISCIPLINE DRAWINGS FOR AREAS OF DEMOLITION AND NEW WORK. PROVIDE MINOR RELOCATION OF LIGHT FIXTURES AND DEVICES TO ACCOMMODATE NEW MECHANICAL AND TELECOM EQUIPMENT LOCATIONS.
6. FOR WALL/CEILINGS SCHEDULED TO BE DEMOLISHED, DEMOLISH ALL CONDUIT, WIRE, DEVICES, BOXES, ETC. BACK TO THE EXTENT PRACTICAL TO ACCOMMODATE DEMOLITION. RELOCATE EXISTING LIGHT FIXTURES, DEVICES, CONDUIT, AND WIRE AS REQUIRED. PROVIDE EXTENSION OF CONDUIT AND WIRE AS REQUIRED TO ACCOMMODATE RELOCATED ITEMS.
7. FOR THE RENOVATED TELECOMMUNICATIONS ROOMS WITH NEW PAINTED PLYWOOD WALLS, CONTRACTOR SHALL DISCONNECT AND TEMPORARILY REMOVE ALL ELECTRICAL DEVICES, BOXES, CONDUIT, AND WIRE TO ALLOW FOR PLYWOOD INSTALLATION. REINSTALL ALL DEVICES BACK IN SAME LOCATIONS AND PROVIDE BOX EXTENSIONS, CIRCUIT EXTENSIONS, ETC. AS REQUIRED TO ACCOMMODATE RENOVATION.
8. COORDINATE WITH THE OTHER DISCIPLINE DRAWINGS FOR AREAS OF DEMOLITION AND NEW WORK.
9. LIGHTING AND RECEPTACLES SHALL REMAIN IN EXISTING TELECOM ROOMS. NO DEMOLITION UNLESS OTHERWISE NOTED

KEYNOTES

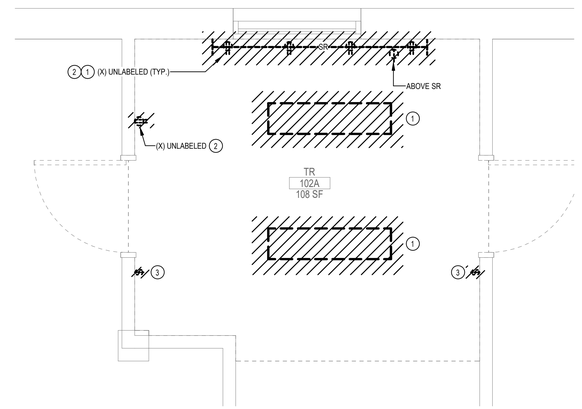
1 LIGHT FIXTURE TO BE REMOVED. CONTRACTOR TO REMOVE EXISTING CONDUIT AND CONDUCTORS BACK TO SOURCE. MAINTAIN CIRCUIT CONTINUITY FOR EXISTING LIGHT FIXTURES TO REMAIN.

2 EXISTING ELECTRICAL RECEPTACLES TO BE REMOVED. CONTRACTOR TO REMOVE EXISTING CONDUIT AND CONDUCTORS BACK TO SOURCE.

3 EXISTING LIGHT SWITCH TO BE REMOVED. REMOVE CONDUIT AND CONDUCTORS BACK TO SOURCE.



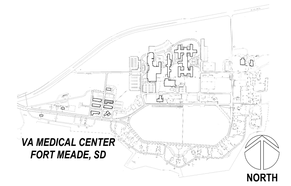
1 ELECTRICAL DEMOLITION PLAN - BLDG 90 FIRST FLOOR
1/8" = 1'-0"



2 ENLARGED ROOM - 102A ELECTRICAL DEMOLITION
1/2" = 1'-0"

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

PROJECT KEY PLAN



VA MEDICAL CENTER
FORT MEADE, SD

Revisions:	Date:

CONSULTANT
ELECTRICAL ENGINEER
GDM
1308 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICAHEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD
A/E
GDM
1308 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

STAMP

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT
VA U.S. Department of Veterans Affairs

DRAWING TITLE: ELECTRICAL DEMOLITION PLAN
PHASE: 100% CONSTRUCTION DOCUMENTS
PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES
PROJECT NUMBER: 568-21-701
BUILDING NUMBER: 90
APPROVED: Project Director: FOR OFFICIAL USE ONLY (FOUO)
FLS: FULLY SPRINKLERED
LOCATION: FORT MEADE, SOUTH DAKOTA
ISSUE DATE: 11/05/2024
CHECKED BY: MER
DRAWN BY: AJW
DRAWING NUMBER: 090-ED-011

VA FORM 08 - 6231

BLDG 90 - EQUIPMENT SCHEDULE															
EQUIPMENT TAG	RATED VOLTAGE	VOLTAGE PHASE	HP	KW	FLA	MCA	MOCP	# PARALLEL CONDUCTORS	BRANCH CIRCUIT RACEWAY	BRANCH CIRCUIT PHASE	BRANCH CIRCUIT N	BRANCH CIRCUIT G	DISCONNECT SIZE	DISCONNECT FUSE	NOTES
MECHANICAL EQUIPMENT															
90-IU-1	208	1	-	-	0.3	14.0	15	-	3/4"	2#12	-	#12	-	-	3
90-OU-1	208	1	-	-	-	24.0	35	-	3/4"	2#8	-	#10	60	35	1
TELECOMMUNICATIONS EQUIPMENT															
RK-102A-1A	208	3	-	5.00	-	-	20	-	3/4"	3#12	1#12	#12	-	-	2
RK-102A-1B	208	3	-	5.00	-	-	20	-	3/4"	3#12	1#12	#12	-	-	2

NOTES
1. PROVIDE NEW DISCONNECT.
2. PROVIDE NEMA L21-20R INTERLOCKING RECEPTACLE.
3. PROVIDE NEW MOTOR-RATED SWITCH.

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	MODEL #	LAMP TYPE	CRI	DELIVERED LUMENS	COLOR TEMP	INPUT WATTS	FINISH
S1	LED STRIP LIGHT FIXTURE, LENSED, WHITE HOUSING, PROVIDE WITH E10WLCP EM DRIVER WHERE NOTED AS EMERGENCY ON PLANS.	LITHONIA	#ZL1N-L48-7000LM-FST-MVOLT-40K-80CRI-WH (E10WLCP)	LED	80	6,785	4000K	52	WHITE

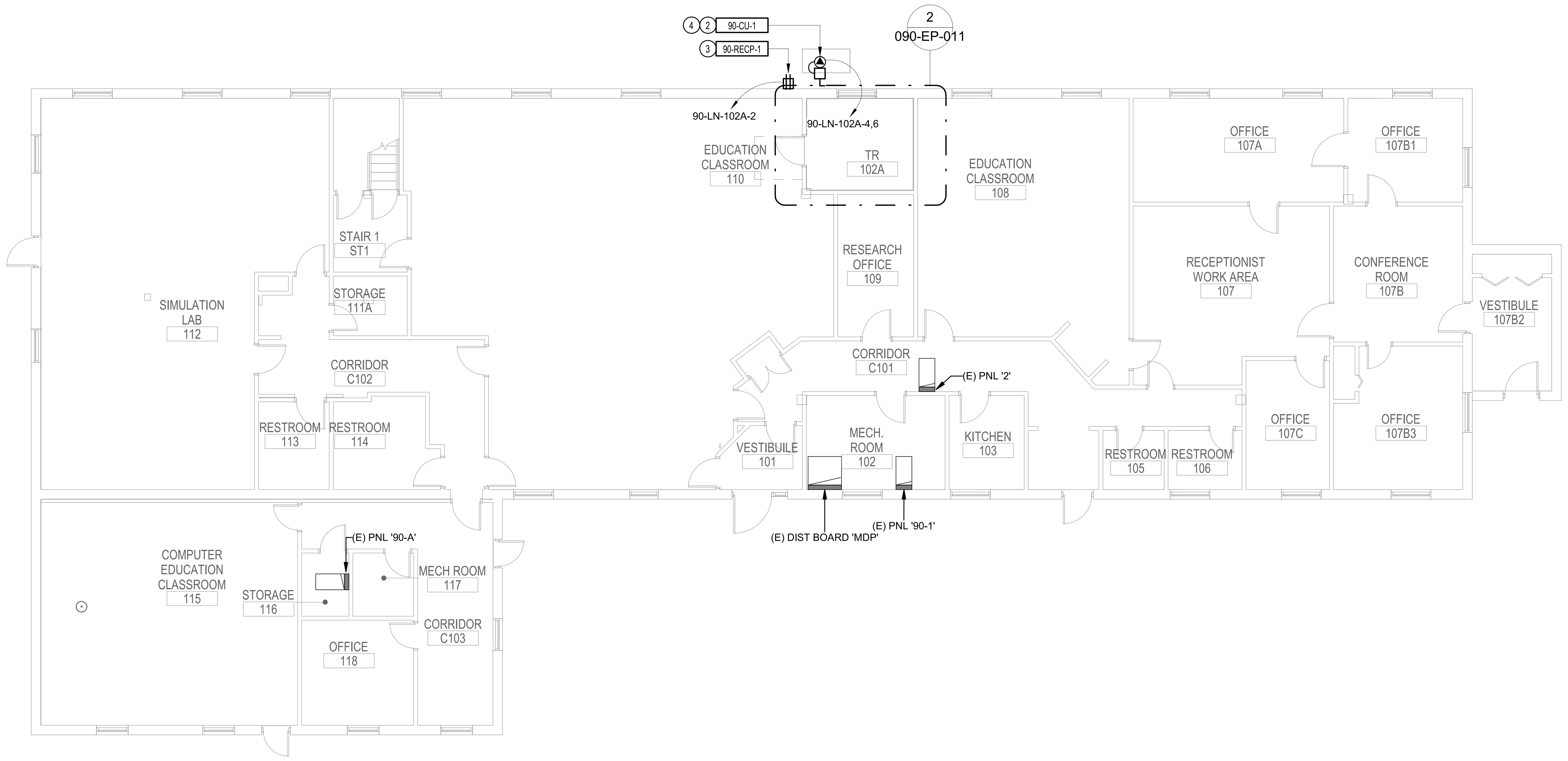
NOTES:

GENERAL NOTES

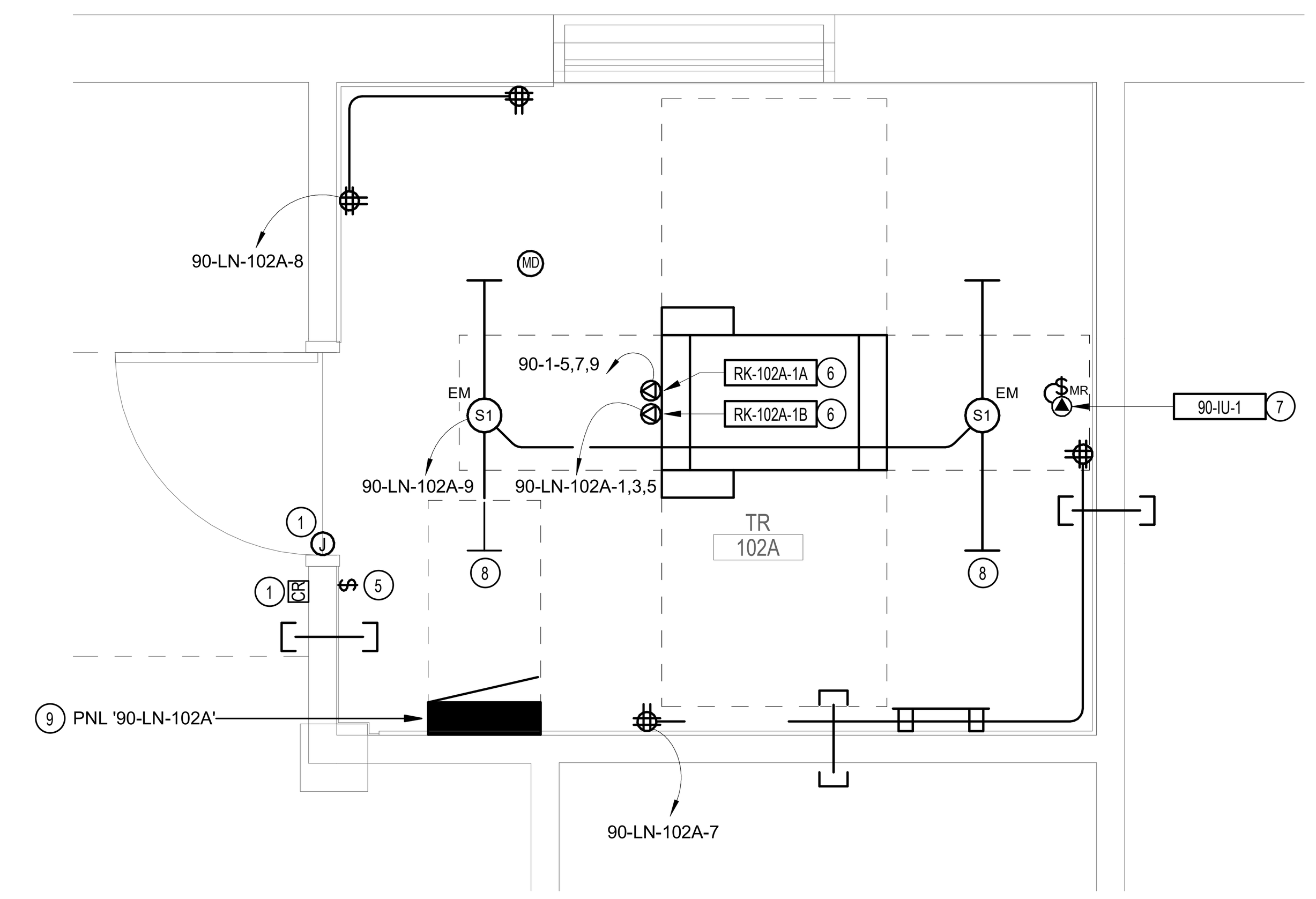
1. COORDINATE EXACT LOCATION OF MECHANICAL AND TELECOMMUNICATIONS EQUIPMENT WITH THE CORRESPONDING DISCIPLINE'S DRAWINGS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMOPORARILY MOVING AND RETURNING FURNITURE, FIXTURES, AND EQUIPMENT WITHIN SPACES AS REQUIRED TO COMPLETE EACH DAYS WORK. THE VA WILL REMOVE OR SECURE PHI,, PPI, AND PERSONALY PROPERTY. COORDINATE THIS WORK WITH THE COR.
3. REFER TO ASSOCIATED TN SHEETS FOR RACK QUANTITES IN EXISTING AND NEW TR SPACES.
4. REFER TO ELECTRICAL FEEDER SCHEDULES ON SHEET 000-EG-001 FOR CONDUIT AND CONDUCTOR FEEDER REQUIREMENTS.
5. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
6. CONDUIT ROUTING SHOWN IS SCHEMATIC BY DESIGN. CONTRACTOR SHALL VERIFY FEASIBILITY PRIOR TO INSTALLATION.

KEYNOTES

1 CONTRACTOR TO PROVIDE RACEWAY AND BOXES FOR ACCESS CONTROLS SYSTEM COMPONENTS.
2 CONTRACTOR TO PROVIDE NEW DISCONNECT WITH NEW FUSES FOR NEW MECHANICAL EQUIPMENT. SEE ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.
3 CONTRACTOR TO PROVIDE WET-RATED CONVENIANCE RECEPTACLE. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION AND WEATHER PROTECTION.
4 CONTRACTOR TO PROVIDE CONDUIT AND CONDUCTORS FOR NEW OUTDOOR MECHANICAL UNIT. SEE ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.
5 CONTRACTOR TO PROVIDE NEW LIGHT SWITCH. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION.
6 CONTRACTOR TO PROVIDE NEW L21-20R RECEPTACLE FOR NEW RACK POWER. RECEPTACLE TO BE MOUNTED DIRECTLY ON CABLE TRAY.
7 INDOOR MECHANICAL UNIT FED BY OUTDOOR MECHANICAL UNIT. PROVIDE NEW MOTOR-RATED SWITCH AND ALL CONDUIT AND CONDUCTORS FROM CONTROLS TO INDOOR UNIT AS REQUIRED FOR COMPLETE OPERATION.
8 CONTRACTOR TO PROVIDE NEW LIGHT FIXTURE. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION. REFER TO LIGHT FIXTURE SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION AMD REQUIREMENTS.
9 CONTRACTOR TO PROVIDE NEW 208Y/120V, 100A, PANELBOARD. CONTRACTOR TO PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION. REFER TO FEEDER SCHEDULE ON 000-EG-001 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.



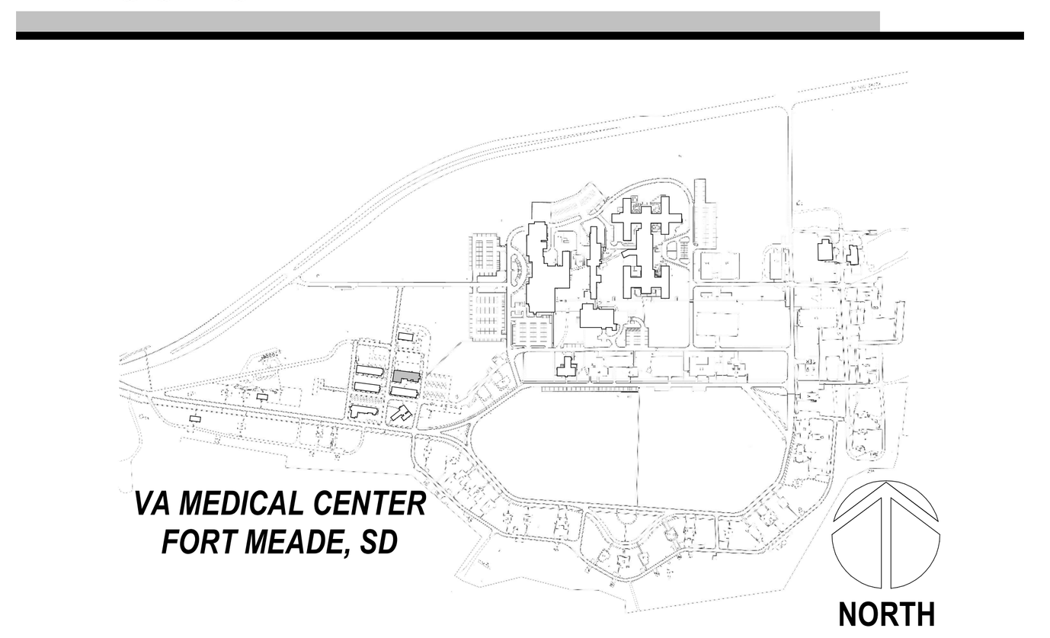
1 ELECTRICAL REMODEL PLAN - BLDG 90 FIRST FLOOR
1/8" = 1'-0"



2 ENLARGED ROOM - 102A ELECTRICAL REMODEL
1/2" = 1'-0"

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

PROJECT KEY PLAN



Revisions:	Date:

CONSULTANT

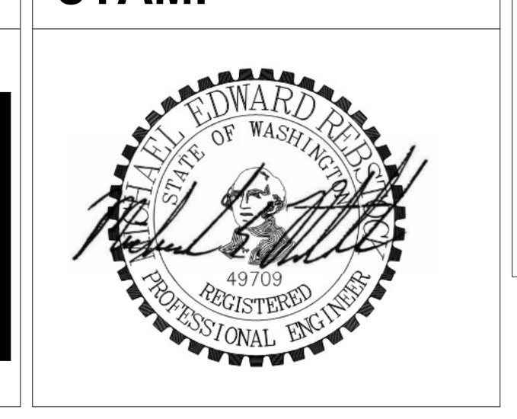
ELECTRICAL ENGINEER
GDM
1308 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICAHEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD

A/E
GDM
1308 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP



OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE	PHASE	PROJECT TITLE	PROJECT NUMBER
ELECTRICAL REMODEL PLAN	100% CONSTRUCTION DOCUMENTS	EHRM INFRASTRUCTURE UPGRADES	568-21-701
			BUILDING NUMBER: 90
APPROVED: Project Director	FLS	LOCATION: FORT MEADE, SOUTH DAKOTA	DRAWING NUMBER
FOR OFFICIAL USE ONLY (FOUO)	FULLY SPRINKLERED	ISSUE DATE: 11/05/2024; CHECKED BY: MER; DRAWN BY: AJW	090-EP-011

GENERAL DEMOLITION NOTES

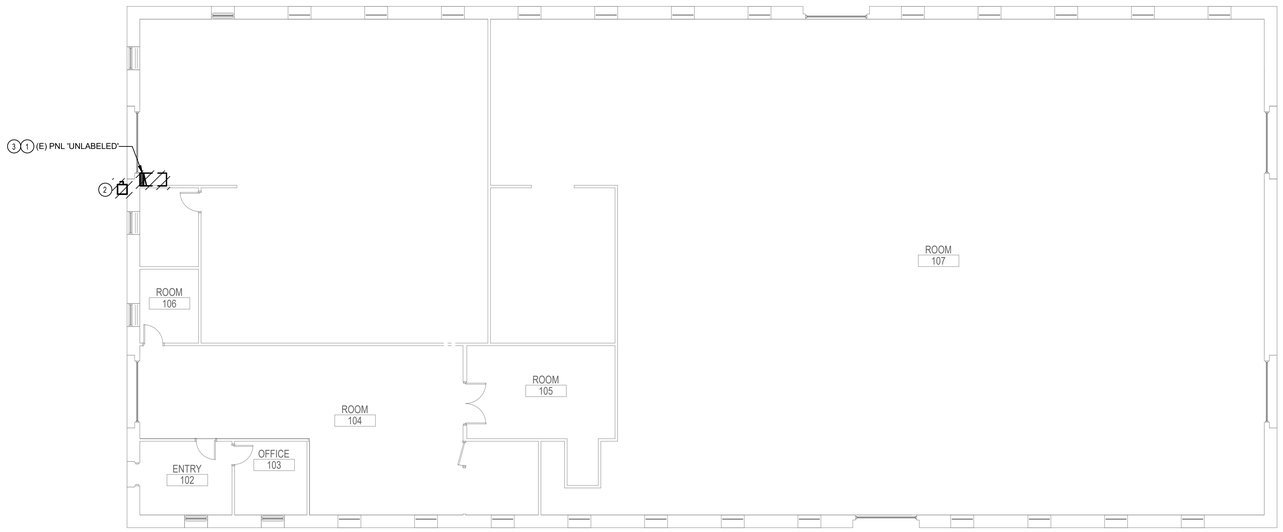
1. CONTRACTOR SHALL COORDINATE ALL OUTAGES WITH THE COR PRIOR TO BEGINNING WORK. GREAT CARE SHALL BE TAKEN TO MINIMIZE OUTAGE DURATION TO SHORTEST EXTENT POSSIBLE. NO DEMOLITION SHALL OCCUR ON THE UPS SYSTEM, LIFE SAFETY SYSTEM, TELECOMMUNICATIONS SYSTEM, OR ANY OTHER CRITICAL SYSTEM UNTIL THE NEW/REPLACEMENT SYSTEMS ARE IN PLACE AND READY FOR SWITCHOVER.
2. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM RECORD DRAWINGS AND/OR A NON-DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.
3. THE COR SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS. THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A WAREHOUSE AS DIRECTED BY THE COR. THE CONTRACTOR SHALL DISPOSE OF, OFF SITE, ALL UNWANTED MATERIALS.
4. DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
5. COORDINATE WITH THE OTHER DISCIPLINE DRAWINGS FOR AREAS OF DEMOLITION AND NEW WORK. PROVIDE MINOR RELOCATION OF LIGHT FIXTURES AND DEVICES TO ACCOMMODATE NEW MECHANICAL AND TELECOM EQUIPMENT LOCATIONS.
6. FOR WALL/CEILINGS SCHEDULED TO BE DEMOLISHED, DEMOLISH ALL CONDUIT, WIRE, DEVICES, BOXES, ETC. BACK TO THE EXTENT PRACTICAL TO ACCOMMODATE DEMOLITION. RELOCATE EXISTING LIGHT FIXTURES, DEVICES, CONDUIT, AND WIRE AS REQUIRED. PROVIDE EXTENSION OF CONDUIT AND WIRE AS REQUIRED TO ACCOMMODATE RELOCATED ITEMS.
7. FOR THE RENOVATED TELECOMMUNICATIONS ROOMS WITH NEW PAINTED PLYWOOD WALLS, CONTRACTOR SHALL DISCONNECT AND TEMPORARILY REMOVE ALL ELECTRICAL DEVICES, BOXES, CONDUIT, AND WIRE TO ALLOW FOR PLYWOOD INSTALLATION. REINSTALL ALL DEVICES BACK IN SAME LOCATIONS AND PROVIDE BOX EXTENSIONS, CIRCUIT EXTENSIONS, ETC. AS REQUIRED TO ACCOMMODATE RENOVATION.
8. COORDINATE WITH THE OTHER DISCIPLINE DRAWINGS FOR AREAS OF DEMOLITION AND NEW WORK.
9. LIGHTING AND RECEPTACLES SHALL REMAIN IN EXISTING TELECOM ROOMS. NO DEMOLITION UNLESS OTHERWISE NOTED

KEYNOTES

1 EXISTING PANEL TO BE REPLACED WITH NEW ONE IN SAME LOCATION. EXISTING CONDUCTORS TO BE VERIFIED RATED TO CARRY 150A SERVICE AND REMAIN FOR REUSE IF CORRECT. OTHERWISE, CONDUIT TO REMAIN FOR REUSE AND UPSIZE EXISTING CONDUCTORS TO ALLOW FOR 150A SERVICE.

2 EXISTING SERVICE DISCONNECT TO BE REMOVED. EXISTING CONDUCTORS TO BE VERIFIED RATED TO CARRY 150A SERVICE AND REMAIN FOR REUSE IF CORRECT. OTHERWISE, CONDUIT TO REMAIN FOR REUSE AND UPSIZE EXISTING CONDUCTORS TO ALLOW FOR 150A SERVICE.

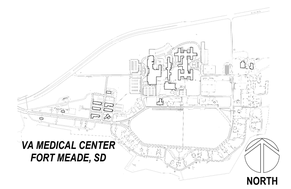
3 EXISTING CIRCUITS TO BE REROUTED TO NEW PANEL '110-LN-T1' IN AVAILABLE SPACES.



1 ELECTRICAL DEMOLITION PLAN - BLDG 110 FIRST FLOOR
1/8" = 1'-0"

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

PROJECT KEY PLAN



VA MEDICAL CENTER
FORT MEADE, SD

NORTH

Revisions:	Date:

CONSULTANT

ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD

A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS · ENGINEERS

STAMP

EDWARD GODDIN · STATE OF WASHINGTON · 49709 · REGISTERED PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: ELECTRICAL DEMOLITION PLAN - FIRST FLOOR

APPROVED: Project Director: FOR OFFICIAL USE ONLY (FOUO)

PHASE: 100% CONSTRUCTION DOCUMENTS

FLS: FULLY SPRINKLERED

PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES

LOCATION: FORT MEADE, SOUTH DAKOTA

ISSUE DATE: 11/05/2024 | CHECKED BY: MER | DRAWN BY: AJW

PROJECT NUMBER: 568-21-701

BUILDING NUMBER: 110

DRAWING NUMBER: 110-ED-011

VA FORM 08 - 6231

BLDG 110 - EQUIPMENT SCHEDULE															
EQUIPMENT TAG	RATED VOLTAGE	VOLTAGE PHASE	HP	KW	FLA	MCA	MOCP	# PARALLEL CONDUCTORS	BRANCH CIRCUIT				DISCONNECT		NOTES
									RACEWAY	PHASE	N	G	SIZE	FUSE	
MECHANICAL EQUIPMENT															
110-IU-1	208	1	-	-	0.2	14.0	15	-	3/4"	2#12	-	#12	-	-	3
110-OU-1	208	1	-	-	-	11.0	15	-	3/4"	2#12	-	#12	30	15	1
TELECOMMUNICATIONS EQUIPMENT															
RK-102-1A	120	1	-	2.88	-	-	30	-	3/4"	2#10	-	#10	-	-	2
RK-102-1B	120	1	-	2.88	-	-	30	-	3/4"	2#10	-	#10	-	-	2

NOTES
1. PROVIDE NEW DISCONNECT.
2. PROVIDE NEMA L5-30 RECEPTACLE.
3. PROVIDE NEW MOTOR-RATED SWITCH.

GENERAL NOTES

1. COORDINATE EXACT LOCATION OF MECHANICAL AND TELECOMMUNICATIONS EQUIPMENT WITH THE CORRESPONDING DISCIPLINE'S DRAWINGS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMOPORARILY MOVING AND RETURNING FURNITURE, FIXTURES, AND EQUIPMENT WITHIN SPACES AS REQUIRED TO COMPLETE EACH DAYS WORK. THE VA WILL REMOVE OR SECURE PHI,, PPI, AND PERSONALY PROPERTY. COORDINATE THIS WORK WITH THE COR.
3. REFER TO ASSOCIATED TN SHEETS FOR RACK QUANTITES IN EXISTING AND NEW TR SPACES.
4. REFER TO ELECTRICAL FEEDER SCHEDULES ON SHEET 000-EG-001 FOR CONDUIT AND CONDUCTOR FEEDER REQUIREMENTS.
5. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
6. CONDUIT ROUTING SHOWN IS SCHEMATIC BY DESIGN. CONTRACTOR SHALL VERIFY FEASIBILITY PRIOR TO INSTALLATION.

KEYNOTES

1 CONTRACTOR TO PROVIDE NEW L5-30 RECEPTACLE IN NEW JUNCTION BOX FOR NEW TELECOMMUNICATIONS ENCLOSURE UPS. ALIGN JUNCTION BOX TO ENCLOSURE 6"X6" CUTOUT BEHIND RACK. L5-30 RECEPTACLES TO BE MOUNTED IN SINGLE JUNCTION BOX UNLESS OTHERWISE NOTED.

2 CONTRACTOR TO PROVIDE NEW 240V, 150A, 1-PHASE PANELBOARD WITH NEW 150A MAIN CIRCUIT BREAKER. PROVIDE CONDUIT AND CONDUCTORS FROM NEW SERVICE DISCONNECT '110-FD-EXT' TO NEW PANEL.

3 CONTRACTOR TO PROVIDE NEW DISCONNECT WITH NEW FUSES FOR NEW MECHANICAL EQUIPMENT. SEE ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.

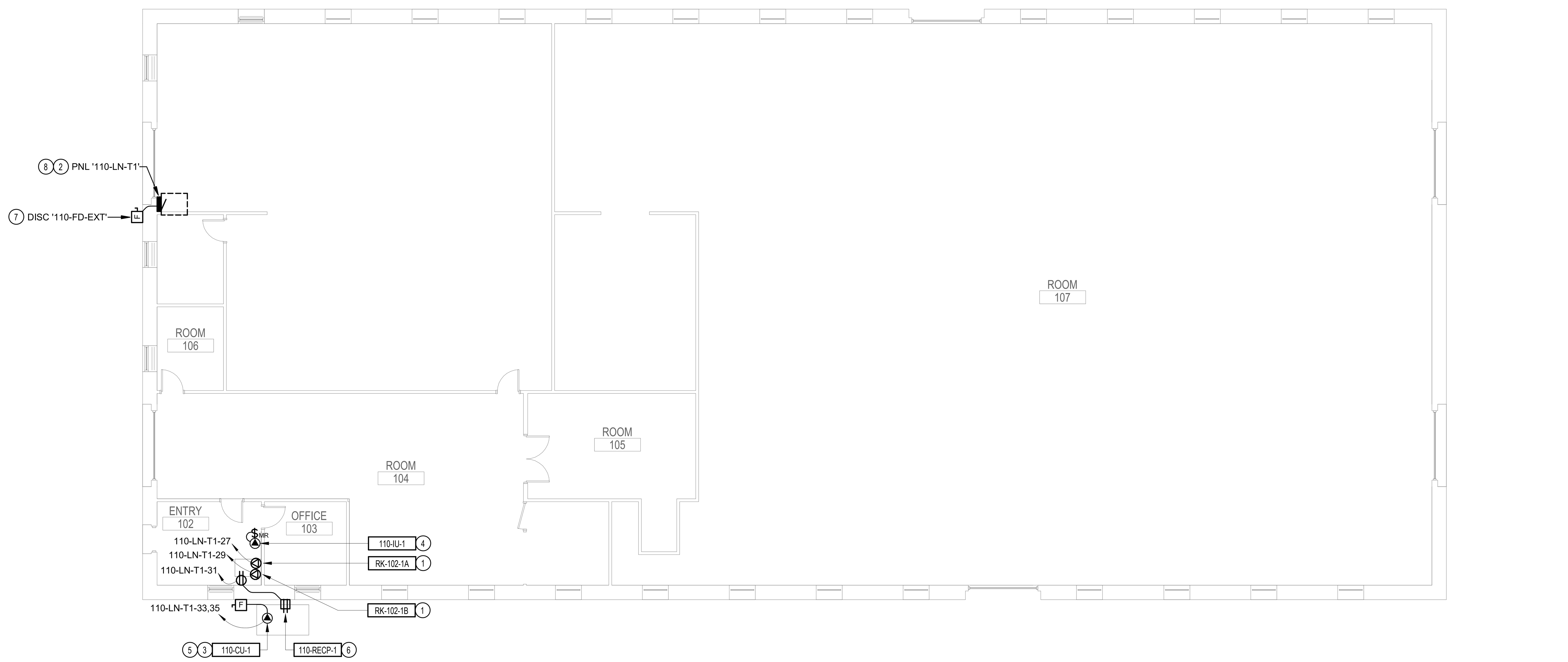
4 INDOOR MECHANICAL UNIT FED BY OUTDOOR MECHANICAL UNIT. PROVIDE NEW MOTOR-RATED SWITCH AND ALL CONDUIT AND CONDUCTORS FROM CONTROLS TO INDOOR UNIT AS REQUIRED FOR COMPLETE OPERATION.

5 CONTRACTOR TO PROVIDE CONDUIT AND CONDUCTORS FOR NEW OUTDOOR MECHANICAL UNIT. SEE ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.

6 CONTRACTOR TO PROVIDE WET-RATED CONVENIANCE RECEPTACLE. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION AND WEATHER PROTECTION.

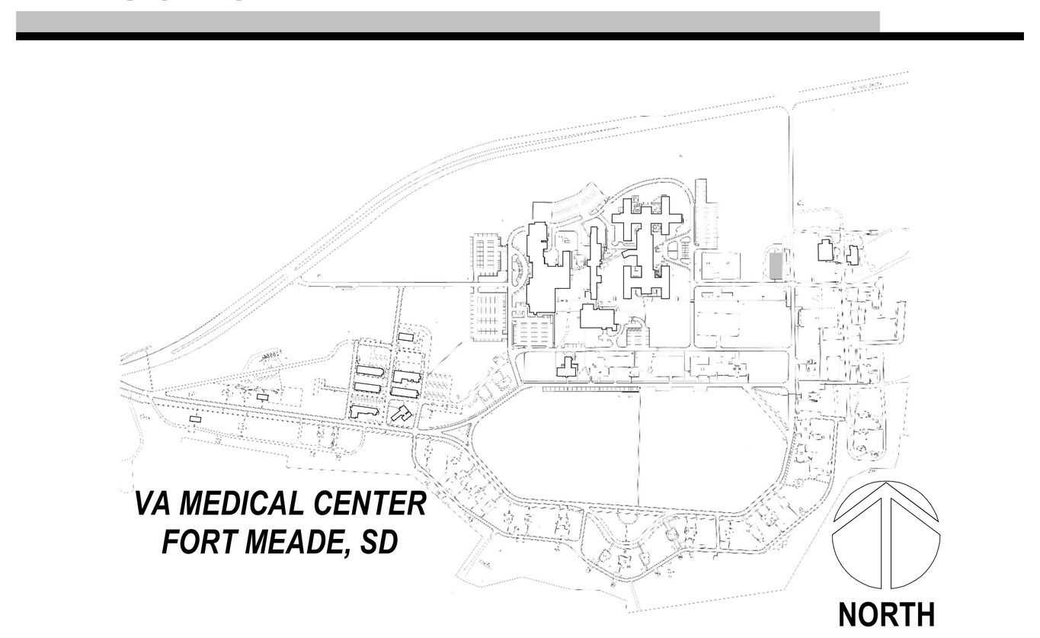
7 CONTRACTOR TO PROVIDE NEW 240V, 200A FUSED DISCONNECT WITH NEW 150A FUSES. EXTEND EXISTING CONDIT AND CONDUCTORS TO NEW DISCONNECT. PROVIDE NEW CONDUCTORS FROM EXISTING SITE TRANSFORMER 'TR170' IF EXISTING CONDUCTORS REQUIRE UPSIZING.

8 CONTRACTOR TO REROUTE EXISTING CIRCUITS TO REMAIN TO NEW PANEL '110-LN-T1'.



1 ELECTRICAL REMODEL PLAN - BLDG 110 FIRST FLOOR
1/8" = 1'-0"

PROJECT KEY PLAN



THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

Revisions:	Date:

CONSULTANT

ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD

A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

MICHAEL EDWARD REBSTOCK, STATE OF WASHINGTON, 49709, REGISTERED PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: ELECTRICAL REMODEL PLAN - FIRST FLOOR

APPROVED: Project Director

FOR OFFICIAL USE ONLY (FOUO)

PHASE: 100% CONSTRUCTION DOCUMENTS

FLS: FULLY SPRINKLERED

PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES

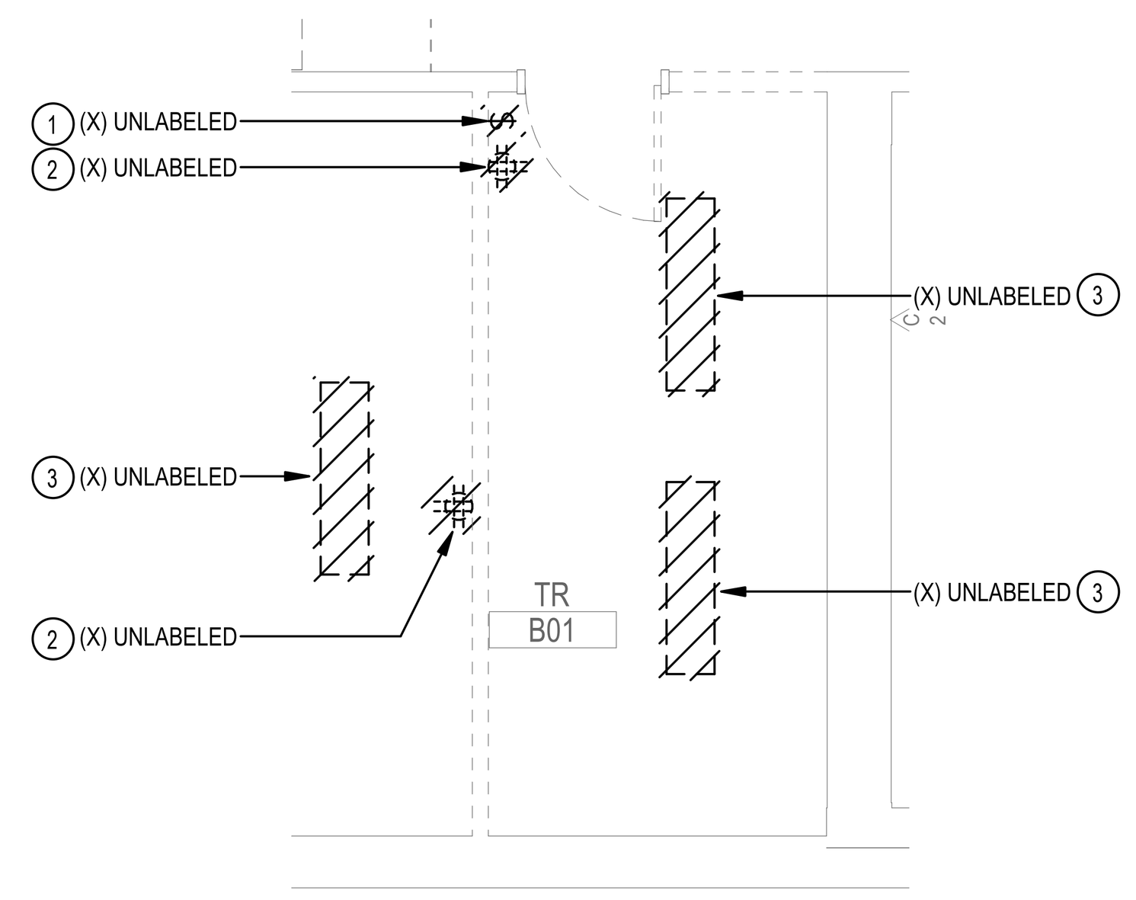
LOCATION: FORT MEADE, SOUTH DAKOTA

ISSUE DATE	CHECKED BY	DRAWN BY
11/05/2024	MER	AJW

PROJECT NUMBER: 568-21-701

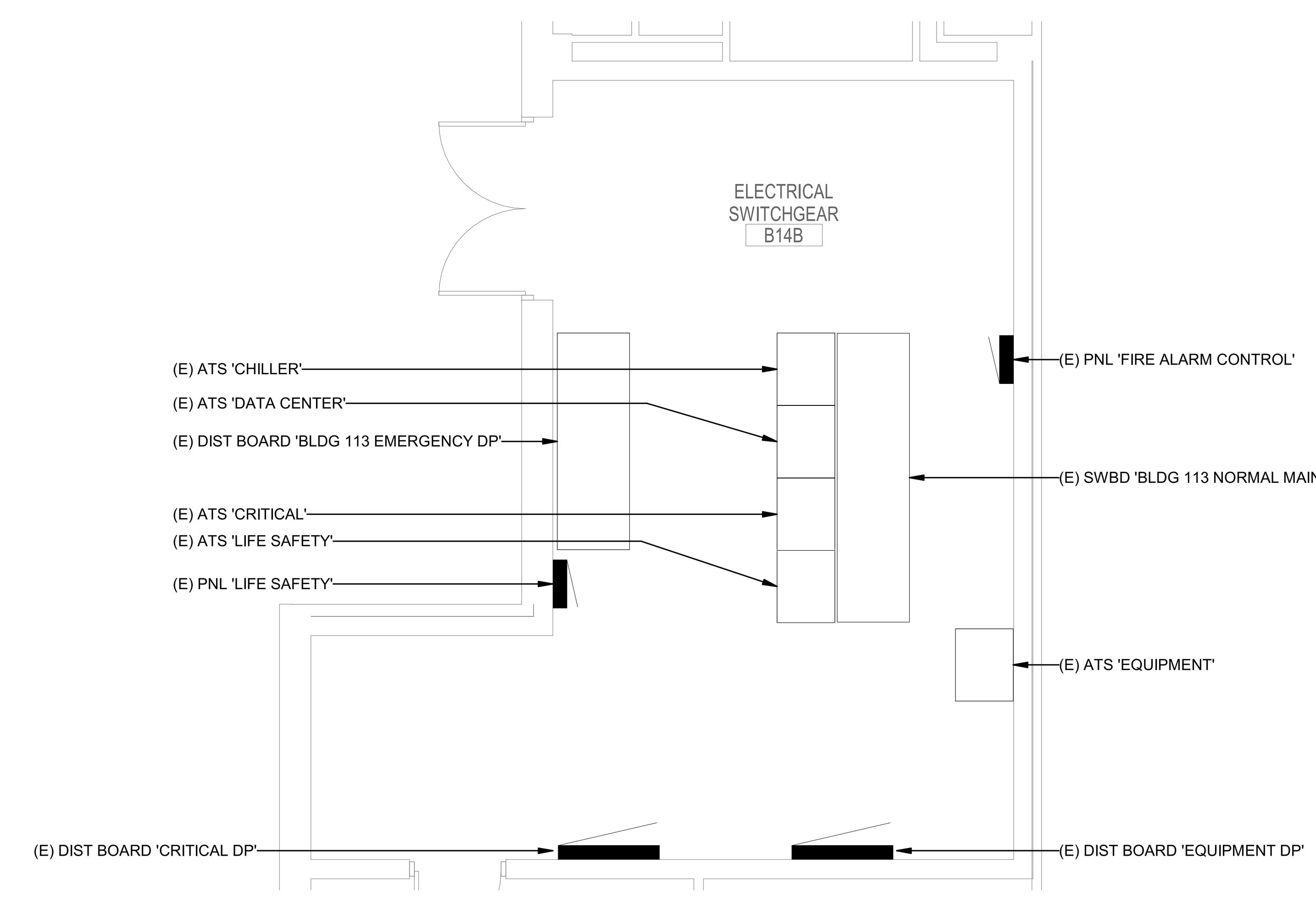
BUILDING NUMBER: 110

DRAWING NUMBER: 110-EP-011



2 ENLARGED ROOM - B01 ELECTRICAL DEMOLITION
1/4" = 1'-0"

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.



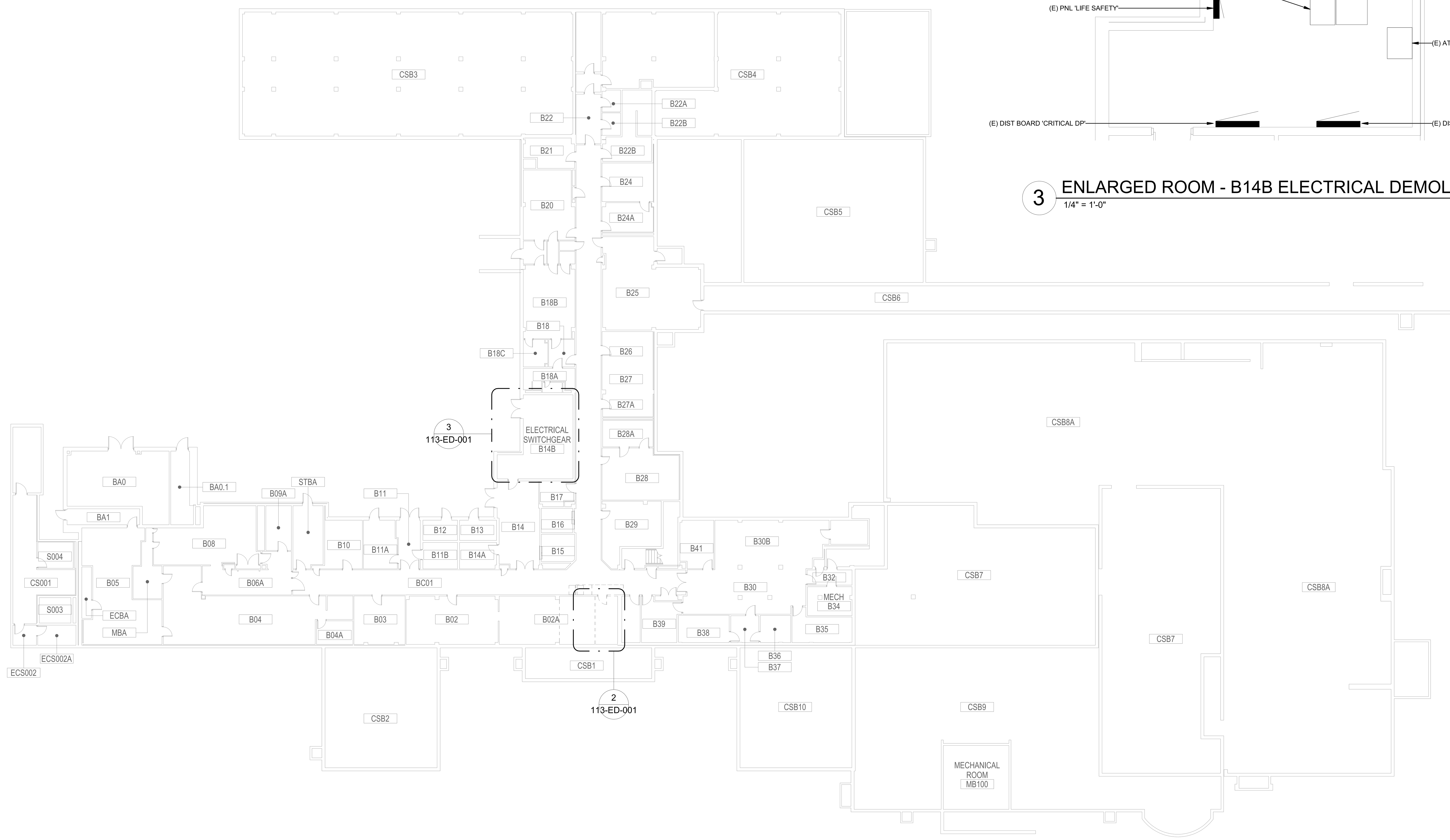
3 ENLARGED ROOM - B14B ELECTRICAL DEMOLITION
1/4" = 1'-0"

GENERAL DEMOLITION NOTES

1. CONTRACTOR SHALL COORDINATE ALL OUTAGES WITH THE COR PRIOR TO BEGINNING WORK. GREAT CARE SHALL BE TAKEN TO MINIMIZE OUTAGE DURATION TO SHORTEST EXTENT POSSIBLE. NO DEMOLITION SHALL OCCUR ON THE UPS SYSTEM, LIFE SAFETY SYSTEM, TELECOMMUNICATIONS SYSTEM, OR ANY OTHER CRITICAL SYSTEM UNTIL THE NEW/REPLACEMENT SYSTEMS ARE IN PLACE AND READY FOR SWITCHOVER.
2. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM RECORD DRAWINGS AND/OR A NON-DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.
3. THE COR SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS. THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A WAREHOUSE AS DIRECTED BY THE COR. THE CONTRACTOR SHALL DISPOSE OF, OFF SITE, ALL UNWANTED MATERIALS.
4. DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
5. COORDINATE WITH THE OTHER DISCIPLINE DRAWINGS FOR AREAS OF DEMOLITION AND NEW WORK. PROVIDE MINOR RELOCATION OF LIGHT FIXTURES AND DEVICES TO ACCOMMODATE NEW MECHANICAL AND TELECOM EQUIPMENT LOCATIONS.
6. FOR WALL/CEILINGS SCHEDULED TO BE DEMOLISHED, DEMOLISH ALL CONDUIT, WIRE, DEVICES, BOXES, ETC. BACK TO THE EXTENT PRACTICAL TO ACCOMMODATE DEMOLITION. RELOCATE EXISTING LIGHT FIXTURES, DEVICES, CONDUIT, AND WIRE AS REQUIRED. PROVIDE EXTENSION OF CONDUIT AND WIRE AS REQUIRED TO ACCOMMODATE RELOCATED ITEMS.
7. FOR THE RENOVATED TELECOMMUNICATIONS ROOMS WITH NEW PAINTED PLYWOOD WALLS, CONTRACTOR SHALL DISCONNECT AND TEMPORARILY REMOVE ALL ELECTRICAL DEVICES, BOXES, CONDUIT, AND WIRE TO ALLOW FOR PLYWOOD INSTALLATION. REINSTALL ALL DEVICES BACK IN SAME LOCATIONS AND PROVIDE BOX EXTENSIONS, CIRCUIT EXTENSIONS, ETC. AS REQUIRED TO ACCOMMODATE RENOVATION.
8. COORDINATE WITH THE OTHER DISCIPLINE DRAWINGS FOR AREAS OF DEMOLITION AND NEW WORK.
9. LIGHTING AND RECEPTACLES SHALL REMAIN IN EXISTING TELECOM ROOMS. NO DEMOLITION UNLESS OTHERWISE NOTED

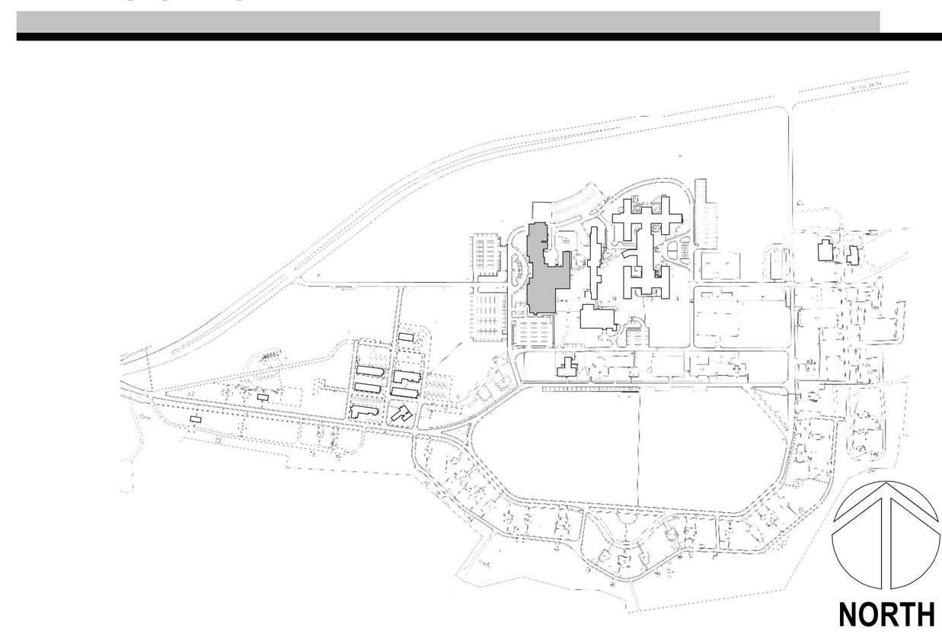
KEYNOTES

1 EXISTING LIGHT SWITCH TO BE REMOVED. REMOVE CONDUIT AND CONDUCTORS BACK TO SOURCE.
2 EXISTING ELECTRICAL RECEPTACLES TO BE REMOVED. CONTRACTOR TO REMOVE EXISTING CONDUIT AND CONDUCTORS BACK TO SOURCE.
3 EXISTING LIGHT FIXTURES TO BE REMOVED. MAINTAIN CIRCUIT CONTINUITY FOR REMAINING LIGHT FIXTURES IN CIRCUIT.



1 ELECTRICAL DEMOLITION PLAN - BLDG 113 BASEMENT
1/16" = 1'-0"

PROJECT KEY PLAN



Revisions:	Date:

CONSULTANT

ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD

A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: ELECTRICAL DEMOLITION PLAN - BASEMENT LAYOUT

APPROVED: Project Director

FOR OFFICIAL USE ONLY (FOUO)

PHASE: 100% CONSTRUCTION DOCUMENTS

FLS: FULLY SPRINKLERED

PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES

LOCATION: FORT MEADE, SOUTH DAKOTA

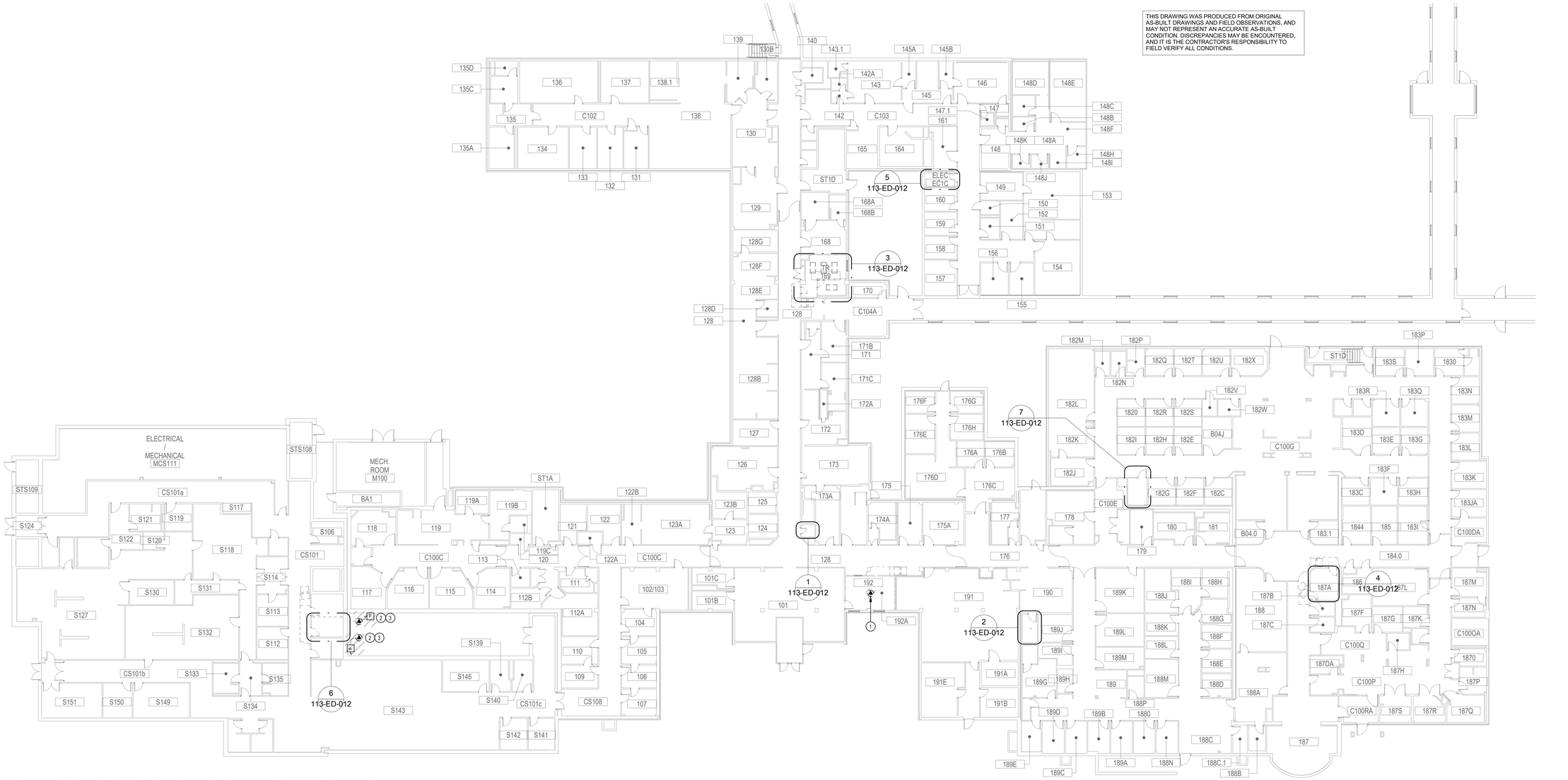
ISSUE DATE: 11/05/2024 | CHECKED BY: MER | DRAWN BY: AJW

PROJECT NUMBER: 568-21-701

BUILDING NUMBER: 113

DRAWING NUMBER: 113-ED-001

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.



1 ELECTRICAL DEMOLITION PLAN - BLDG 113 FIRST FLOOR

1/16" = 1'-0"

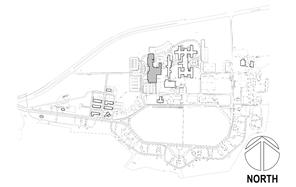
GENERAL DEMOLITION NOTES

1. CONTRACTOR SHALL COORDINATE ALL OUTAGES WITH THE COR PRIOR TO BEGINNING WORK. GREAT CARE SHALL BE TAKEN TO MINIMIZE OUTAGE DURATION TO SHORTEST EXTENT POSSIBLE. NO DEMOLITION SHALL OCCUR ON THE UPS SYSTEM, LIFE SAFETY SYSTEM, TELECOMMUNICATIONS SYSTEM, OR ANY OTHER CRITICAL SYSTEM UNTIL THE NEW/REPLACEMENT SYSTEMS ARE IN PLACE AND READY FOR SWITCHOVER.
2. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM RECORD DRAWINGS AND/OR A NON-DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.
3. THE COR SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS. THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A WAREHOUSE AS DIRECTED BY THE COR. THE CONTRACTOR SHALL DISPOSE OF, OFF SITE, ALL UNWANTED MATERIALS.
4. DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
5. COORDINATE WITH THE OTHER DISCIPLINE DRAWINGS FOR AREAS OF DEMOLITION AND NEW WORK. PROVIDE MINOR RELOCATION OF LIGHT FIXTURES AND DEVICES TO ACCOMMODATE NEW MECHANICAL AND TELECOM EQUIPMENT LOCATIONS.
6. FOR WALL/CEILINGS SCHEDULED TO BE DEMOLISHED, DEMOLISH ALL CONDUIT, WIRE, DEVICES, BOXES, ETC. BACK TO THE EXTENT PRACTICAL TO ACCOMMODATE DEMOLITION. RELOCATE EXISTING LIGHT FIXTURES, DEVICES, CONDUIT, AND WIRE AS REQUIRED. PROVIDE EXTENSION OF CONDUIT AND WIRE AS REQUIRED TO ACCOMMODATE RELOCATED ITEMS.
7. FOR THE RENOVATED TELECOMMUNICATIONS ROOMS WITH NEW PAINTED PLYWOOD WALLS, CONTRACTOR SHALL DISCONNECT AND TEMPORARILY REMOVE ALL ELECTRICAL DEVICES, BOXES, CONDUIT, AND WIRE TO ALLOW FOR PLYWOOD INSTALLATION. REINSTALL ALL DEVICES BACK IN SAME LOCATIONS AND PROVIDE BOX EXTENSIONS, CIRCUIT EXTENSIONS, ETC. AS REQUIRED TO ACCOMMODATE RENOVATION.
8. COORDINATE WITH THE OTHER DISCIPLINE DRAWINGS FOR AREAS OF DEMOLITION AND NEW WORK.
9. LIGHTING AND RECEPTACLES SHALL REMAIN IN EXISTING TELECOM ROOMS. NO DEMOLITION UNLESS OTHERWISE NOTED

KEYNOTES

1. EXISTING VRF TO BE REMOVED BY MECHANICAL. ELECTRICAL CONTRACTOR TO REMOVE CONDUIT AND CONDUCTORS BACK TO SOURCE.
2. EXISTING MECHANICAL EQUIPMENT TO BE REMOVED BY MECHANICAL. CONTRACTOR TO REMOVE EXISTING CONDUIT AND CONDUCTORS BACK TO SOURCE.
3. EXISTING DISCONNECT SERVING OUTSIDE MECHANICAL UNIT TO BE REMOVED. REMOVE CONDUIT AND CONDUCTORS BACK TO SOURCE.

PROJECT KEY PLAN



NORTH

Revisions:	Date:

CONSULTANT

ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD

A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

ADAM EDWARD GODDIN — STATE OF WASHINGTON — 21702 — REGISTERED PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: ELECTRICAL DEMOLITION PLAN - FIRST FLOOR LAYOUT

PHASE: 100% CONSTRUCTION DOCUMENTS

PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES

PROJECT NUMBER: 568-21-701

BUILDING NUMBER: 113

APPROVED: Project Director

FLS: FULLY SPRINKLERED

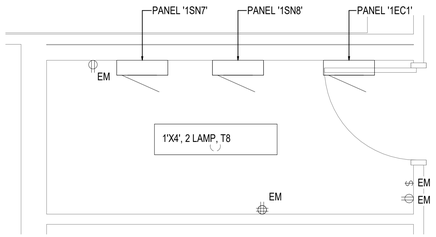
LOCATION: FORT MEADE, SOUTH DAKOTA

ISSUE DATE: 11/05/2024 | CHECKED BY: MER | DRAWN BY: AJW

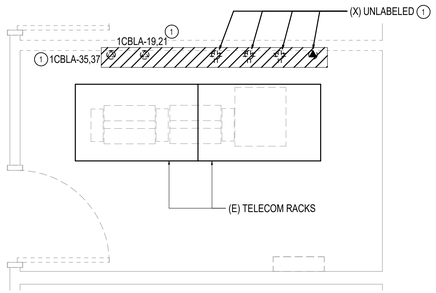
DRAWING NUMBER: 113-ED-011

FOR OFFICIAL USE ONLY (FOUO)

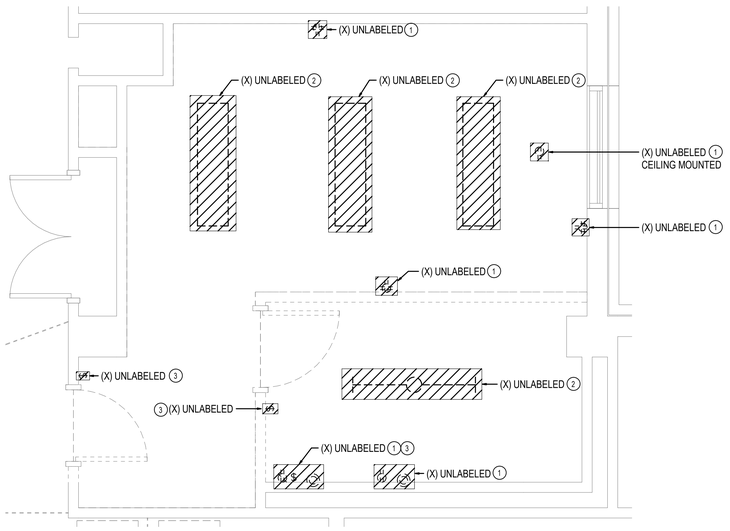
VA FORM 08 - 6231



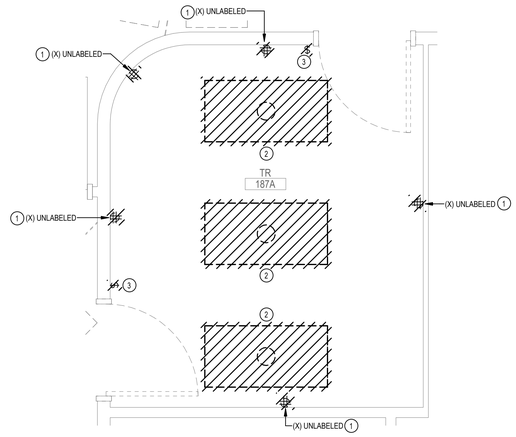
5 ENLARGED ROOM - EC1C ELECTRICAL DEMOLITION
1/2" = 1'-0"



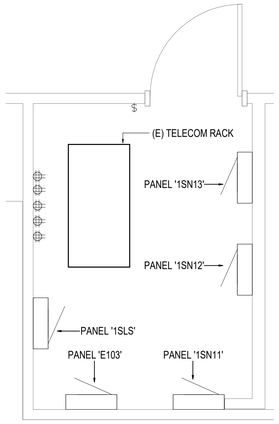
6 ENLARGED ROOM - TCS103 ELECTRICAL DEMOLITION
1/2" = 1'-0"



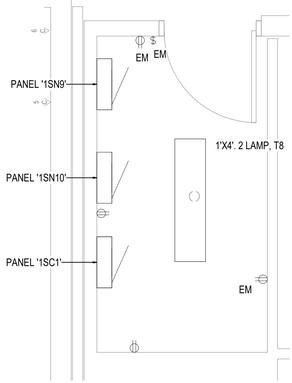
3 ENLARGED ROOM - 169 ELECTRICAL DEMOLITION
1/2" = 1'-0"



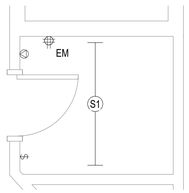
4 ENLARGED ROOM - 187A ELECTRICAL DEMOLITION
1/2" = 1'-0"



7 ENLARGED ROOM - EC1E ELECTRICAL DEMOLITION
1/2" = 1'-0"



2 ENLARGED ROOM - EC1F ELECTRICAL DEMOLITION
1/2" = 1'-0"



1 ENLARGED ROOM - TC1A ELECTRICAL DEMOLITION
1/2" = 1'-0"

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

GENERAL DEMOLITION NOTES

1. CONTRACTOR SHALL COORDINATE ALL OUTAGES WITH THE COR PRIOR TO BEGINNING WORK. GREAT CARE SHALL BE TAKEN TO MINIMIZE OUTAGE DURATION TO SHORTEST EXTENT POSSIBLE. NO DEMOLITION SHALL OCCUR ON THE UPS SYSTEM, LIFE SAFETY SYSTEM, TELECOMMUNICATIONS SYSTEM, OR ANY OTHER CRITICAL SYSTEM UNTIL THE NEW/REPLACEMENT SYSTEMS ARE IN PLACE AND READY FOR SWITCHOVER.
2. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM RECORD DRAWINGS AND/OR A NON-DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.
3. THE COR SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS. THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A WAREHOUSE AS DIRECTED BY THE COR. THE CONTRACTOR SHALL DISPOSE OF, OFF SITE, ALL UNWANTED MATERIALS.
4. DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
5. COORDINATE WITH THE OTHER DISCIPLINE DRAWINGS FOR AREAS OF DEMOLITION AND NEW WORK. PROVIDE MINOR RELOCATION OF LIGHT FIXTURES AND DEVICES TO ACCOMMODATE NEW MECHANICAL AND TELECOM EQUIPMENT LOCATIONS.
6. FOR WALL/CEILINGS SCHEDULED TO BE DEMOLISHED, DEMOLISH ALL CONDUIT, WIRE, DEVICES, BOXES, ETC. BACK TO THE EXTENT PRACTICAL TO ACCOMMODATE DEMOLITION. RELOCATE EXISTING LIGHT FIXTURES, DEVICES, CONDUIT, AND WIRE AS REQUIRED. PROVIDE EXTENSION OF CONDUIT AND WIRE AS REQUIRED TO ACCOMMODATE RELOCATED ITEMS.
7. FOR THE RENOVATED TELECOMMUNICATIONS ROOMS WITH NEW PAINTED PLYWOOD WALLS, CONTRACTOR SHALL DISCONNECT AND TEMPORARILY REMOVE ALL ELECTRICAL DEVICES, BOXES, CONDUIT, AND WIRE TO ALLOW FOR PLYWOOD INSTALLATION. REINSTALL ALL DEVICES BACK IN SAME LOCATIONS AND PROVIDE BOX EXTENSIONS, CIRCUIT EXTENSIONS, ETC. AS REQUIRED TO ACCOMMODATE RENOVATION.
8. COORDINATE WITH THE OTHER DISCIPLINE DRAWINGS FOR AREAS OF DEMOLITION AND NEW WORK.
9. LIGHTING AND RECEPTACLES SHALL REMAIN IN EXISTING TELECOM ROOMS. NO DEMOLITION UNLESS OTHERWISE NOTED

KEYNOTES

1 EXISTING ELECTRICAL RECEPTACLES TO BE REMOVED. CONTRACTOR TO REMOVE EXISTING CONDUIT AND CONDUCTORS BACK TO SOURCE.
2 LIGHT FIXTURE TO BE REMOVED. CONTRACTOR TO REMOVE EXISTING CONDUIT AND CONDUCTORS BACK TO SOURCE. MAINTAIN CIRCUIT CONTINUITY FOR EXISTING LIGHT FIXTURES TO REMAIN.
3 EXISTING LIGHT SWITCH TO BE REMOVED. REMOVE CONDUIT AND CONDUCTORS BACK TO SOURCE.

PROJECT KEY PLAN

Revisions:	Date:

CONSULTANT
ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD
A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS - ENGINEERS

STAMP

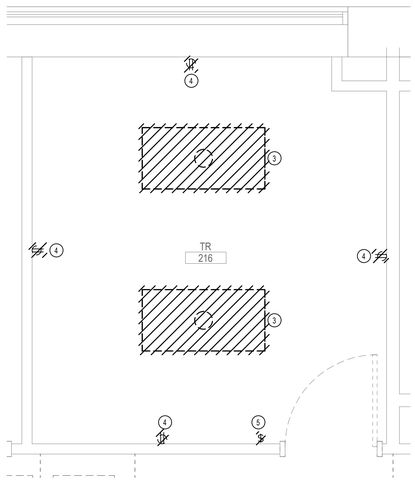
OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: ELECTRICAL DEMOLITION PLAN - 1ST FLOOR ENLARGED PLANS	PHASE: 100% CONSTRUCTION DOCUMENTS	PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES	PROJECT NUMBER: 568-21-701
APPROVED: Project Director: FOR OFFICIAL USE ONLY (FOUO)	FLS: FULLY SPRINKLERED	LOCATION: FORT MEADE, SOUTH DAKOTA	BUILDING NUMBER: 113
		ISSUE DATE: 11/05/2024 / CHECKED BY: MER / DRAWN BY: AJW	DRAWING NUMBER: 113-ED-012

VA FORM 08 - 6231

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.



2 ENLARGED ROOM - 216 ELECTRICAL DEMOLITION

1/2" = 1'-0"

1 ELECTRICAL DEMOLITION PLAN - BLDG 113 SECOND FLOOR

1/16" = 1'-0"

GENERAL DEMOLITION NOTES

1. CONTRACTOR SHALL COORDINATE ALL OUTAGES WITH THE COR PRIOR TO BEGINNING WORK. GREAT CARE SHALL BE TAKEN TO MINIMIZE OUTAGE DURATION TO SHORTEST EXTENT POSSIBLE. NO DEMOLITION SHALL OCCUR ON THE UPS SYSTEM, LIFE SAFETY SYSTEM, TELECOMMUNICATIONS SYSTEM, OR ANY OTHER CRITICAL SYSTEM UNTIL THE NEW/REPLACEMENT SYSTEMS ARE IN PLACE AND READY FOR SWITCHOVER.
2. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM RECORD DRAWINGS AND/OR A NON-DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.
3. THE COR SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS. THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A WAREHOUSE AS DIRECTED BY THE COR. THE CONTRACTOR SHALL DISPOSE OF, OFF SITE, ALL UNWANTED MATERIALS.
4. DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
5. COORDINATE WITH THE OTHER DISCIPLINE DRAWINGS FOR AREAS OF DEMOLITION AND NEW WORK. PROVIDE MINOR RELOCATION OF LIGHT FIXTURES AND DEVICES TO ACCOMMODATE NEW MECHANICAL AND TELECOM EQUIPMENT LOCATIONS.
6. FOR WALL/CEILINGS SCHEDULED TO BE DEMOLISHED, DEMOLISH ALL CONDUIT, WIRE, DEVICES, BOXES, ETC. BACK TO THE EXTENT PRACTICAL TO ACCOMMODATE DEMOLITION. RELOCATE EXISTING LIGHT FIXTURES, DEVICES, CONDUIT, AND WIRE AS REQUIRED. PROVIDE EXTENSION OF CONDUIT AND WIRE AS REQUIRED TO ACCOMMODATE RELOCATED ITEMS.
7. FOR THE RENOVATED TELECOMMUNICATIONS ROOMS WITH NEW PAINTED PLYWOOD WALLS, CONTRACTOR SHALL DISCONNECT AND TEMPORARILY REMOVE ALL ELECTRICAL DEVICES, BOXES, CONDUIT, AND WIRE TO ALLOW FOR PLYWOOD INSTALLATION. REINSTALL ALL DEVICES BACK IN SAME LOCATIONS AND PROVIDE BOX EXTENSIONS, CIRCUIT EXTENSIONS, ETC. AS REQUIRED TO ACCOMMODATE RENOVATION.
8. COORDINATE WITH THE OTHER DISCIPLINE DRAWINGS FOR AREAS OF DEMOLITION AND NEW WORK.
9. LIGHTING AND RECEPTACLES SHALL REMAIN IN EXISTING TELECOM ROOMS. NO DEMOLITION UNLESS OTHERWISE NOTED

KEYNOTES

1 EXISTING MECHANICAL EQUIPMENT TO BE REMOVED BY MECHANICAL. CONTRACTOR TO REMOVE EXISTING CONDUIT AND CONDUCTORS BACK TO SOURCE.
2 EXISTING DISCONNECT SERVING OUTSIDE MECHANICAL UNIT TO BE REMOVED. REMOVE CONDUIT AND CONDUCTORS BACK TO SOURCE.
3 LIGHT FIXTURE TO BE REMOVED. CONTRACTOR TO REMOVE EXISTING CONDUIT AND CONDUCTORS BACK TO SOURCE. MAINTAIN CIRCUIT CONTINUITY FOR EXISTING LIGHT FIXTURES TO REMAIN.
4 EXISTING ELECTRICAL RECEPTACLES TO BE REMOVED. CONTRACTOR TO REMOVE EXISTING CONDUIT AND CONDUCTORS BACK TO SOURCE.
5 EXISTING LIGHT SWITCH TO BE REMOVED. REMOVE CONDUIT AND CONDUCTORS BACK TO SOURCE.

PROJECT KEY PLAN

Revisions:	Date:

CONSULTANT
ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD
A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS - ENGINEERS

STAMP

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: ELECTRICAL DEMOLITION PLAN - SECOND FLOOR LAYOUT
PHASE: 100% CONSTRUCTION DOCUMENTS
PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES
PROJECT NUMBER: 568-21-701
BUILDING NUMBER: 113
APPROVED: Project Director
FLS: FULLY SPRINKLERED
LOCATION: FORT MEADE, SOUTH DAKOTA
ISSUE DATE: 11/05/2024
CHECKED BY: MER
DRAWN BY: AJW
DRAWING NUMBER: 113-ED-021

FOR OFFICIAL USE ONLY (FOUO)

VA FORM 08 - 6231

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

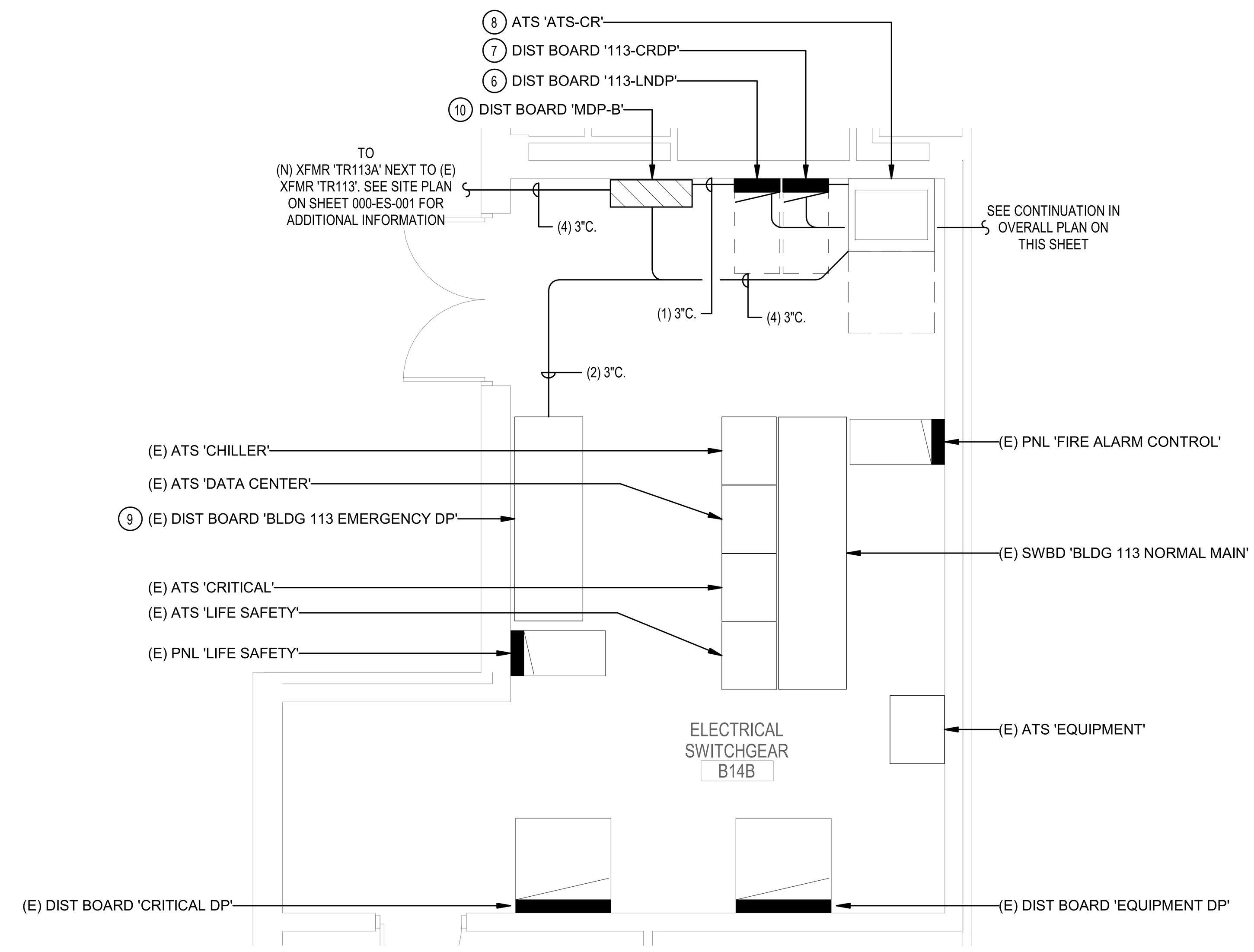
LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	MODEL #	LAMP TYPE	CRI	DELIVERED LUMENS	COLOR TEMP	INPUT WATTS	FINISH
S1	LED STRIP LIGHT FIXTURE, LENSED, WHITE HOUSING, PROVIDE WITH E10WLCP EM DRIVER WHERE NOTED AS EMERGENCY ON PLANS.	LITHONIA	#ZL1N-L48-7000LM-FST-MVOLT-40K-80CRI -WH (E10WLCP)	LED	80	6,785	4000K	52	WHITE
T1	2' X 2' LED TROFFER. RIBBED REFLECTOR, CURVED RIBBED DIFFUSER. PROVIDE WITH EMERGENCY BATTERY PACK OPTION #E10WLCP WHERE SHOWN AS EMERGENCY ON PLANS.	LITHONIA	#2BLT2-48L-ADP-EZ1-LP840 (E10WLCP)	LED	82	5,159	4000K	42.9	WHITE
T2	2' X 4' LED TROFFER. RIBBED REFLECTOR, CURVED RIBBED DIFFUSER. PROVIDE WITH EMERGENCY BATTERY PACK OPTION #E10WLCP WHERE SHOWN AS EMERGENCY ON PLANS.	LITHONIA	#2BLT4-48L-ADP-EZ1-LP840 (E10WLCP)	LED	82	5,169	4000K	39.3	WHITE

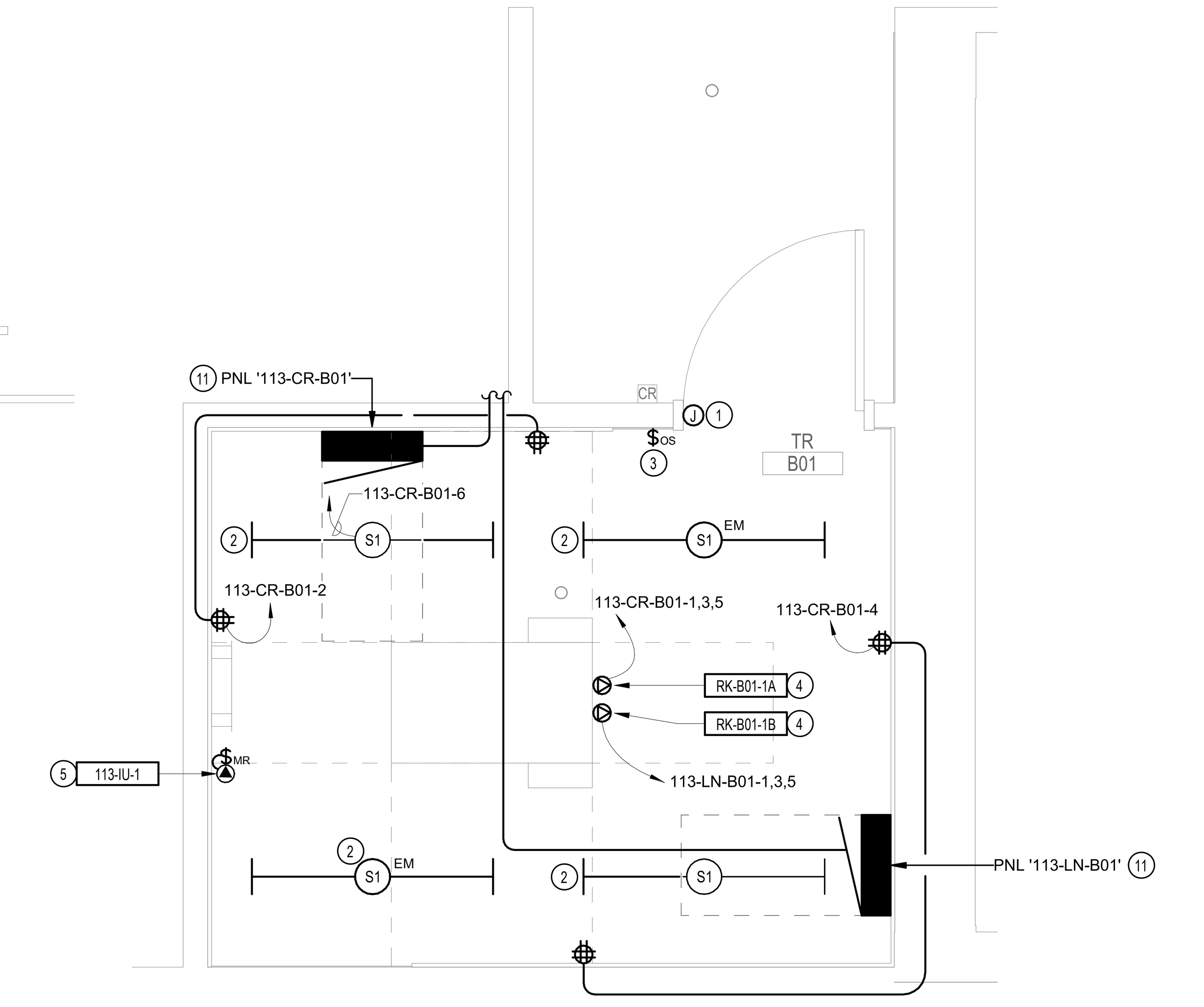
BLDG 113 - BASEMENT EQUIPMENT SCHEDULE

EQUIPMENT TAG	RATED VOLTAGE	VOLTAGE PHASE	HP	KW	FLA	MCA	MOCP	# PARALLEL CONDUCTORS	BRANCH CIRCUIT RACEWAY	BRANCH CIRCUIT PHASE	BRANCH CIRCUIT N	BRANCH CIRCUIT G	DISCONNECT SIZE	DISCONNECT FUSE	NOTES
MECHANICAL EQUIPMENT															
113-IU-1	208	1	-	-	0.3	14.0	15	-	3/4"	2#12	-	#12	-	-	3
TELECOMMUNICATIONS EQUIPMENT															
RK-B01-1A	208	3	-	5.00	-	-	20	-	3/4"	3#12	1#12	#12	-	-	2
RK-B01-1B	208	3	-	5.00	-	-	20	-	3/4"	3#12	1#12	#12	-	-	2

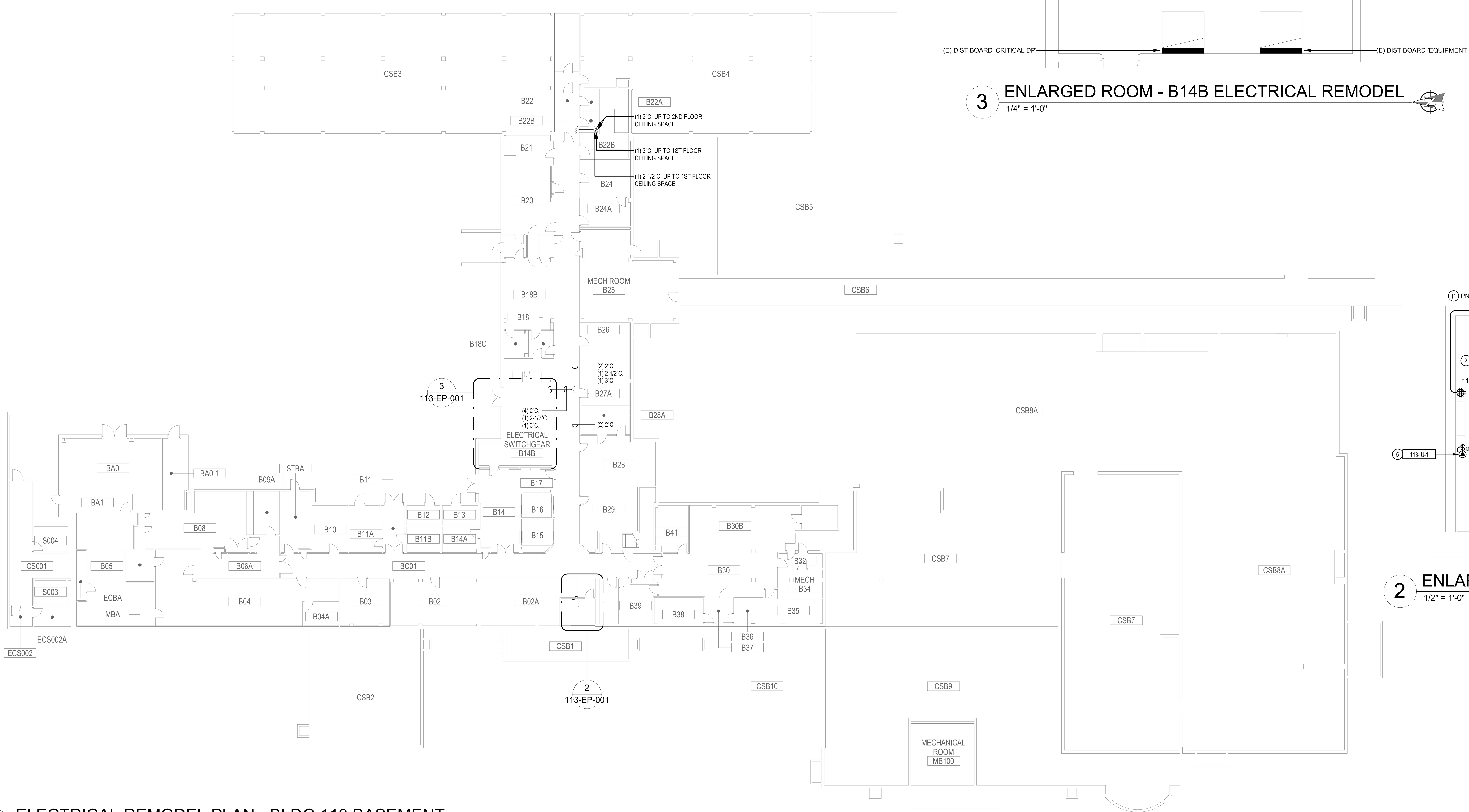
NOTES
1. PROVIDE NEW DISCONNECT.
2. PROVIDE NEMA L21-20R INTERLOCKING RECEPTACLE.
3. PROVIDE NEW MOTOR-RATED SWITCH.



3 ENLARGED ROOM - B14B ELECTRICAL REMODEL
1/4" = 1'-0"



2 ENLARGED ROOM - B01 ELECTRICAL REMODEL
1/2" = 1'-0"



1 ELECTRICAL REMODEL PLAN - BLDG 113 BASEMENT
1/16" = 1'-0"

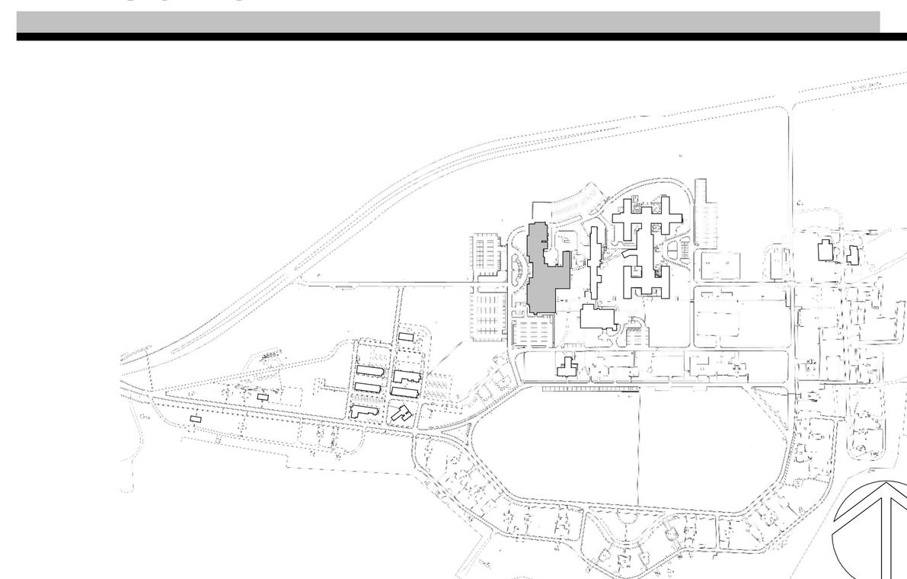
GENERAL NOTES

1. COORDINATE EXACT LOCATION OF MECHANICAL AND TELECOMMUNICATIONS EQUIPMENT WITH THE CORRESPONDING DISCIPLINE'S DRAWINGS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMOPORARILY MOVING AND RETURNING FURNITURE, FIXTURES, AND EQUIPMENT WITHIN SPACES AS REQUIRED TO COMPLETE EACH DAYS WORK. THE VA WILL REMOVE OR SECURE PHI,, PPI, AND PERSONALY PROPERTY. COORDINATE THIS WORK WITH THE COR.
3. REFER TO ASSOCIATED TN SHEETS FOR RACK QUANTITES IN EXISTING AND NEW TR SPACES.
4. REFER TO ELECTRICAL FEEDER SCHEDULES ON SHEET 000-EG-001 FOR CONDUIT AND CONDUCTOR FEEDER REQUIREMENTS.
5. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
6. CONDUIT ROUTING SHOWN IS SCHEMATIC BY DESIGN. CONTRACTOR SHALL VERIFY FEASIBILITY PRIOR TO INSTALLATION.

KEYNOTES

1 CONTRACTOR TO PROVIDE RACEWAY AND BOXES FOR ACCESS CONTROLS SYSTEM COMPONENTS.
2 CONTRACTOR TO PROVIDE NEW LIGHT FIXTURE. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION. REFER TO LIGHT FIXTURE SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION AMD REQUIREMENTS.
3 CONTRACTOR TO PROVIDE NEW LIGHT SWITCH. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION.
4 CONTRACTOR TO PROVIDE NEW L21-20R RECEPTACLE FOR NEW RACK POWER. RECEPTACLE TO BE MOUNTED DIRECTLY ON CABLE TRAY.
5 INDOOR MECHANICAL UNIT FED BY OUTDOOR MECHANICAL UNIT. PROVIDE NEW MOTOR-RATED SWITCH AND ALL CONDUIT AND CONDUCTORS FROM CONTROLS TO INDOOR UNIT AS REQUIRED FOR COMPLETE OPERATION.
6 CONTRACTOR TO PROVIDE NEW 208Y/120V, 400A, PANEL WITH NEW 400A/3P MAIN BREAKER. PROVIDE CONDUIT, CONDUCTORS, AND ALL APPURTENANCES REQUIRED FOR COMPLETE OPERATION.
7 CONTRACTOR TO PROVIDE NEW 208Y/120V, 600A, DISTRIBUTION PANEL WITH NEW 600A/3P MAIN BREAKER. CONTRACTOR TO PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION.
8 CONTRACTOR TO PROVIDE NEW 208Y/120V, 600A, AUTOMATIC TRANSFER SWITCH. CONTRACTOR TO PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION.
9 PROVIDE NEW 600A/3P BREAKER IN EXISTING SPACE. MATCH EXISTING TYPE AND MANUFACTURER.
10 CONTRACTOR TO PROVIDE NEW 208Y/120V, 1200A SWITCHBOARD WITH NEW 1200A MAIN CIRCUIT BREAKER SET TO 800A. PROVIDE ALL APPURTENANCES REQUIRED FOR COMPLETE OPERATION. SEE ONE-LINE DIAGRAM ON SHEET 000-EG-001 FOR PANEL INFORMATION.
11 CONTRACTOR TO PROVIDE NEW 208Y/120V, 100A, PANELBOARD. CONTRACTOR TO PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION. REFER TO FEEDER SCHEDULE ON 000-EG-001 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

PROJECT KEY PLAN



Revisions:	Date:

CONSULTANT
ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD
A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT
VA U.S. Department of Veterans Affairs

DRAWING TITLE: ELECTRICAL REMODEL PLAN - BASEMENT LAYOUT
APPROVED: Project Director
FOR OFFICIAL USE ONLY (FOUO)

PHASE: 100% CONSTRUCTION DOCUMENTS
FLS: FULLY SPRINKLERED

PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES
LOCATION: FORT MEADE, SOUTH DAKOTA
ISSUE DATE: 11/05/2024 | CHECKED BY: MER | DRAWN BY: AJW

PROJECT NUMBER: 568-21-701
BUILDING NUMBER: 113
DRAWING NUMBER: 113-EP-001

VA FORM 08 - 6231

BLDG 113 - FIRST FLOOR EQUIPMENT SCHEDULE

EQUIPMENT TAG	RATED VOLTAGE	VOLTAGE PHASE	HP	KW	FLA	MCA	MOCP	# PARALLEL CONDUCTORS	BRANCH CIRCUIT RACEWAY	BRANCH CIRCUIT PHASE	BRANCH CIRCUIT N	BRANCH CIRCUIT G	DISCONNECT SIZE	DISCONNECT FUSE	NOTES
MECHANICAL EQUIPMENT															
113-IU-2	208	1	-	-	0.3	0.3	15	-	3/4"	2#12	-	#12	-	-	4
113-IU-3	208	1	-	-	0.3	0.3	15	-	3/4"	2#12	-	#12	30	15	4
113-IU-4A	208	1	-	-	0.3	14.0	15	-	3/4"	2#12	-	#12	30	15	4
113-IU-4B	208	1	-	-	0.3	14.0	15	-	3/4"	2#12	-	#12	30	15	4
113-IU-6	208	1	-	-	0.3	14.0	15	-	3/4"	2#12	-	#12	30	15	4
113-OU-1	208	1	-	-	-	11.0	15	-	3/4"	2#12	-	#12	30	15	1
113-OU-2	208	1	-	-	-	24.0	35	-	3/4"	2#8	-	#10	60	35	1
113-OU-4A	208	1	-	-	-	17.0	25	-	3/4"	2#10	-	#10	30	25	1
113-OU-4B	208	1	-	-	-	17.0	25	-	3/4"	2#10	-	#10	30	25	1
113-OU-6	208	1	-	-	-	11.0	15	-	3/4"	2#12	-	#12	30	15	1
TELECOMMUNICATIONS EQUIPMENT															
ZP-TCS103-1A	208	3	-	15.00	-	-	60	-	1"	3#4	1#4	#10	60	60	1
ZP-TCS103-1B	208	3	-	15.00	-	-	60	-	1"	3#4	1#4	#10	60	60	1
RK-TCS103-1A	208	3	-	5.00	-	-	20	-	3/4"	3#12	1#12	#12	-	-	2
RK-TCS103-1B	208	3	-	5.00	-	-	20	-	3/4"	3#12	1#12	#12	-	-	2
RK-169-1A	208	3	-	10.00	-	-	30	-	3/4"	3#10	1#10	#10	-	-	3
RK-169-1B	208	3	-	10.00	-	-	30	-	3/4"	3#10	1#10	#10	-	-	3
RK-187A-1A	208	3	-	10.00	-	-	30	-	3/4"	3#10	1#10	#10	-	-	3
RK-187A-1B	208	3	-	10.00	-	-	30	-	3/4"	3#10	1#10	#10	-	-	3

NOTES
1. PROVIDE NEW DISCONNECT.
2. PROVIDE NEMA L21-20R INTERLOCKING RECEPTACLE.
3. PROVIDE NEMA L21-30R INTERLOCKING RECEPTACLE.
4. PROVIDE NEW MOTOR-RATED SWITCH.

GENERAL NOTES

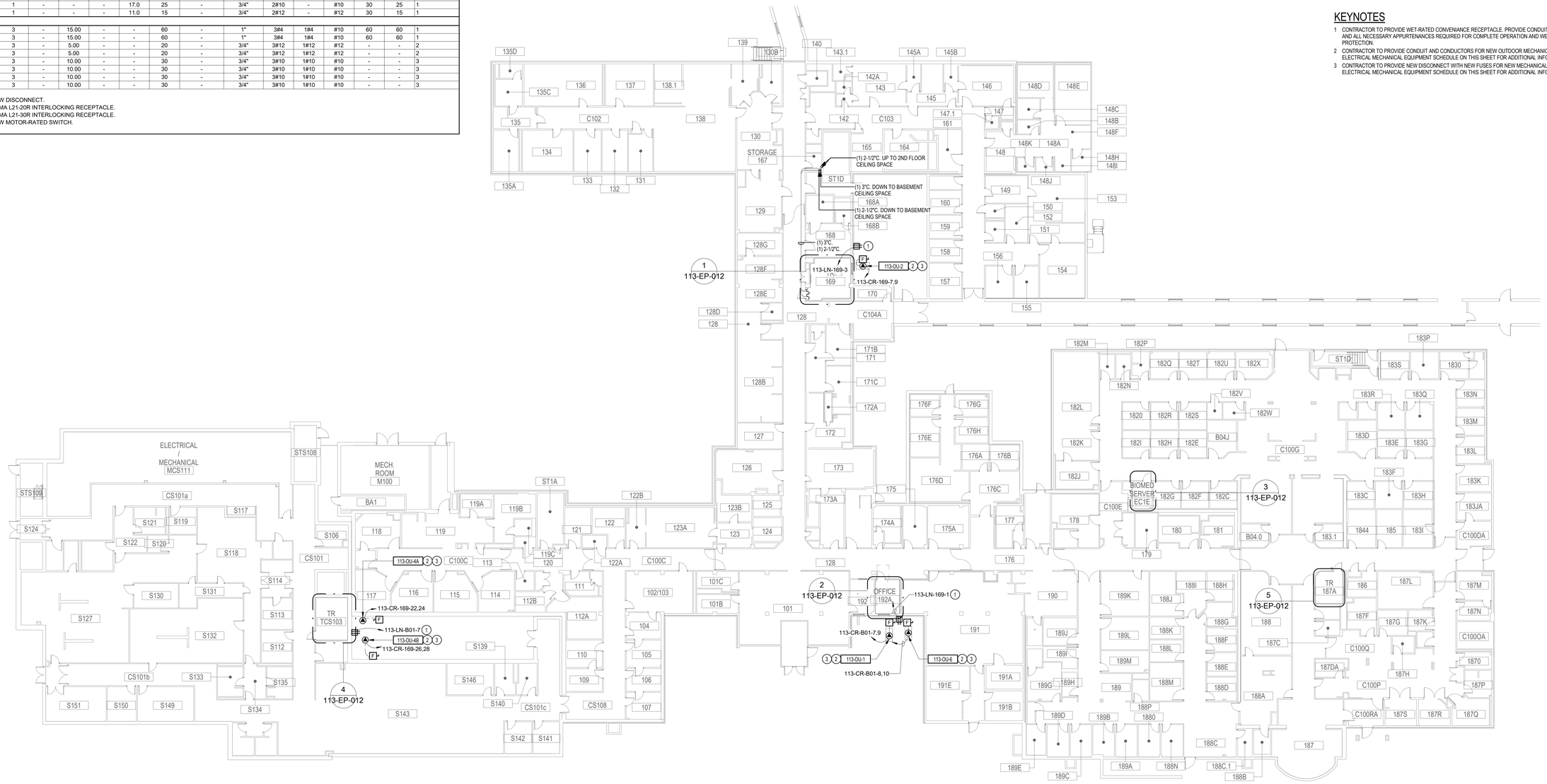
1. COORDINATE EXACT LOCATION OF MECHANICAL AND TELECOMMUNICATIONS EQUIPMENT WITH THE CORRESPONDING DISCIPLINE'S DRAWINGS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMOPORARILY MOVING AND RETURNING FURNITURE, FIXTURES, AND EQUIPMENT WITHIN SPACES AS REQUIRED TO COMPLETE EACH DAYS WORK. THE VA WILL REMOVE OR SECURE PHI-, PPI, AND PERSONALY PROPERTY. COORDINATE THIS WORK WITH THE COR.
3. REFER TO ASSOCIATED TN SHEETS FOR RACK QUANTITES IN EXISTING AND NEW TR SPACES.
4. REFER TO ELECTRICAL FEEDER SCHEDULES ON SHEET 000-EG-001 FOR CONDUIT AND CONDUCTOR FEEDER REQUIREMENTS.
5. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
6. CONDUIT ROUTING SHOWN IS SCHEMATIC BY DESIGN. CONTRACTOR SHALL VERIFY FEASIBILITY PRIOR TO INSTALLATION.

KEYNOTES

1 CONTRACTOR TO PROVIDE WET-RATED CONVENIANCE RECEPTACLE. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION AND WEATHER PROTECTION.

2 CONTRACTOR TO PROVIDE CONDUIT AND CONDUCTORS FOR NEW OUTDOOR MECHANICAL UNIT. SEE ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.

3 CONTRACTOR TO PROVIDE NEW DISCONNECT WITH NEW FUSES FOR NEW MECHANICAL EQUIPMENT. SEE ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.



1 ELECTRICAL REMODEL PLAN - BLDG 113 FIRST FLOOR
1/16" = 1'-0"

PROJECT KEY PLAN

Revisions:	Date:

CONSULTANT
ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD
A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS - ENGINEERS

STAMP
STATE REGISTERED ARCHITECT PROFESSIONAL ENGINEER STATE OF WASHINGTON

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: ELECTRICAL REMODEL PLAN - FIRST FLOOR LAYOUT
PHASE: 100% CONSTRUCTION DOCUMENTS
PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES
PROJECT NUMBER: 568-21-701
BUILDING NUMBER: 113
APPROVED: Project Director
FLS: FULLY SPRINKLERED
LOCATION: FORT MEADE, SOUTH DAKOTA
ISSUE DATE: 11/05/2024
CHECKED BY: MER
DRAWN BY: AJW
DRAWING NUMBER: 113-EP-011

FOR OFFICIAL USE ONLY (FOUO)

VA FORM 08 - 6231

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	MODEL #	LAMP TYPE	CRI	DELIVERED LUMENS	COLOR TEMP	INPUT WATTS	FINISH
S1	LED STRIP LIGHT FIXTURE, LENSED, WHITE HOUSING. PROVIDE WITH E10WLCP EM DRIVER WHERE NOTED AS EMERGENCY ON PLANS.	LITHONIA	#ZL1N-L48-7000LM-FST-MVOLT-40K-80CRI -WH (E10WLCP)	LED	80	6,785	4000K	52	WHITE
T1	2' X 2' LED TROFFER. RIBBED REFLECTOR, CURVED RIBBED DIFFUSER. PROVIDE WITH EMERGENCY BATTERY PACK OPTION #E10WLCP WHERE SHOWN AS EMERGENCY ON PLANS.	LITHONIA	#2BLT2-48L-ADP-EZ1-LP840 (E10WLCP)	LED	82	5,159	4000K	42.9	WHITE
T2	2' X 4' LED TROFFER. RIBBED REFLECTOR, CURVED RIBBED DIFFUSER. PROVIDE WITH EMERGENCY BATTERY PACK OPTION #E10WLCP WHERE SHOWN AS EMERGENCY ON PLANS.	LITHONIA	#2BLT4-48L-ADP-EZ1-LP840 (E10WLCP)	LED	82	5,169	4000K	39.3	WHITE

BLDG 113 - FIRST FLOOR EQUIPMENT SCHEDULE

EQUIPMENT TAG	RATED VOLTAGE	VOLTAGE PHASE	HP	KW	FLA	MCA	MOCP	# PARALLEL CONDUCTORS	BRANCH CIRCUIT RACEWAY	BRANCH CIRCUIT PHASE	BRANCH CIRCUIT N	BRANCH CIRCUIT G	DISCONNECT SIZE	DISCONNECT FUSE	NOTES
MECHANICAL EQUIPMENT															
113-IU-2	208	1	-	-	0.3	0.3	15	-	3/4"	2#12	-	#12	-	-	4
113-IU-3	208	1	-	-	0.3	0.3	15	-	3/4"	2#12	-	#12	30	15	4
113-IU-4A	208	1	-	-	0.3	14.0	15	-	3/4"	2#12	-	#12	30	15	4
113-IU-4B	208	1	-	-	0.3	14.0	15	-	3/4"	2#12	-	#12	30	15	4
113-IU-6	208	1	-	-	0.3	14.0	15	-	3/4"	2#12	-	#12	30	15	4
113-OU-1	208	1	-	-	-	11.0	15	-	3/4"	2#12	-	#12	30	15	1
113-OU-2	208	1	-	-	-	24.0	35	-	3/4"	2#8	-	#10	60	35	1
113-OU-4A	208	1	-	-	-	17.0	25	-	3/4"	2#10	-	#10	30	25	1
113-OU-4B	208	1	-	-	-	17.0	25	-	3/4"	2#10	-	#10	30	25	1
113-OU-6	208	1	-	-	-	11.0	15	-	3/4"	2#12	-	#12	30	15	1
TELECOMMUNICATIONS EQUIPMENT															
ZP-TCS103-1A	208	3	-	15.00	-	-	60	-	1"	3#4	1#4	#10	60	60	1
ZP-TCS103-1B	208	3	-	15.00	-	-	60	-	1"	3#4	1#4	#10	60	60	1
RK-TCS103-1A	208	3	-	5.00	-	-	20	-	3/4"	3#12	1#12	#12	-	-	2
RK-TCS103-1B	208	3	-	5.00	-	-	20	-	3/4"	3#12	1#12	#12	-	-	2
RK-169-1A	208	3	-	10.00	-	-	30	-	3/4"	3#10	1#10	#10	-	-	3
RK-169-1B	208	3	-	10.00	-	-	30	-	3/4"	3#10	1#10	#10	-	-	3
RK-187A-1A	208	3	-	10.00	-	-	30	-	3/4"	3#10	1#10	#10	-	-	3
RK-187A-1B	208	3	-	10.00	-	-	30	-	3/4"	3#10	1#10	#10	-	-	3

NOTES
1. PROVIDE NEW DISCONNECT.
2. PROVIDE NEMA L21-20R INTERLOCKING RECEPTACLE.
3. PROVIDE NEMA L21-30R INTERLOCKING RECEPTACLE.
4. PROVIDE NEW MOTOR-RATED SWITCH.

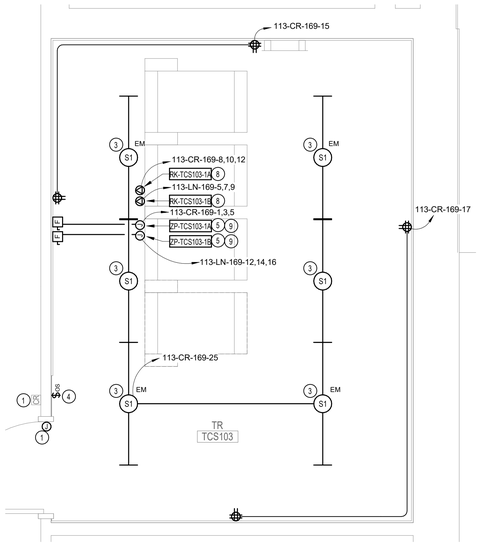
THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

GENERAL NOTES

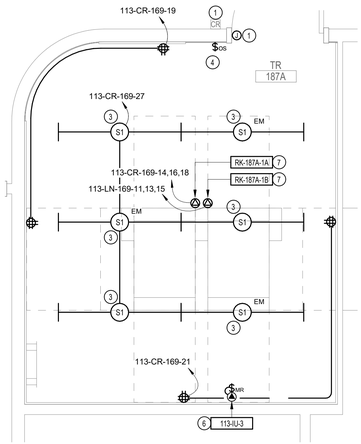
1. COORDINATE EXACT LOCATION OF MECHANICAL AND TELECOMMUNICATIONS EQUIPMENT WITH THE CORRESPONDING DISCIPLINE'S DRAWINGS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARILY MOVING AND RETURNING FURNITURE, FIXTURES, AND EQUIPMENT WITHIN SPACES AS REQUIRED TO COMPLETE EACH DAYS WORK. THE VA WILL REMOVE OR SECURE PHI, , PPI, AND PERSONALY PROPERTY. COORDINATE THIS WORK WITH THE COR.
3. REFER TO ASSOCIATED TN SHEETS FOR RACK QUANTITES IN EXISTING AND NEW TR SPACES.
4. REFER TO ELECTRICAL FEEDER SCHEDULES ON SHEET 000-EG-001 FOR CONDUIT AND CONDUCTOR FEEDER REQUIREMENTS.
5. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
6. CONDUIT ROUTING SHOWN IS SCHEMATIC BY DESIGN. CONTRACTOR SHALL VERIFY FEASIBILITY PRIOR TO INSTALLATION.

KEYNOTES

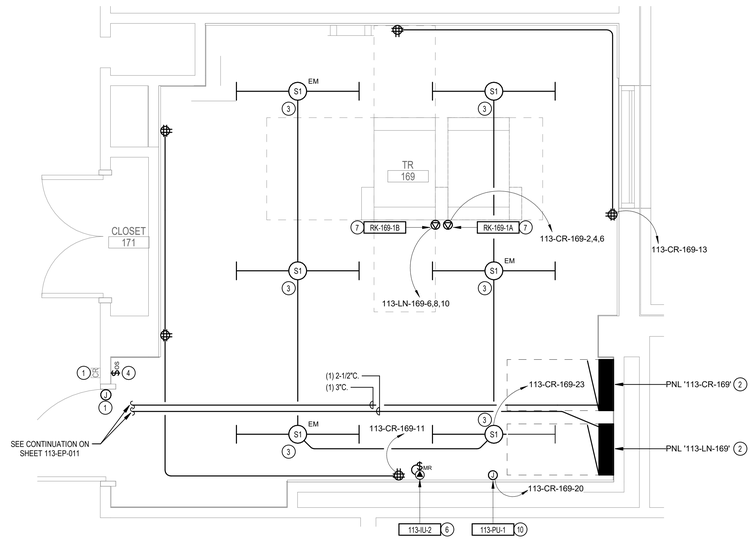
1 CONTRACTOR TO PROVIDE RACEWAY AND BOXES FOR ACCESS CONTROLS SYSTEM COMPONENTS.
2 CONTRACTOR TO PROVIDE NEW 208Y/120V, 225A, PANELBOARD. CONTRACTOR TO PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION. REFER TO FEEDER SCHEDULE ON 000-EG-001 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
3 CONTRACTOR TO PROVIDE NEW LIGHT FIXTURE. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION. REFER TO LIGHT FIXTURE SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION AMD REQUIREMENTS.
4 CONTRACTOR TO PROVIDE NEW LIGHT SWITCH. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION.
5 CONTRACTOR TO PROVIDE NEW DISCONNECT WITH NEW FUSES FOR NEW MECHANICAL EQUIPMENT. SEE ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.
6 INDOOR MECHANICAL UNIT FED BY OUTDOOR MECHANICAL UNIT. PROVIDE NEW MOTOR-RATED SWITCH AND ALL CONDUIT AND CONDUCTORS FROM CONTROLS TO INDOOR UNIT AS REQUIRED FOR COMPLETE OPERATION.
7 CONTRACTOR TO PROVIDE NEW L21-30R RECEPTACLE FOR NEW RACK POWER. RECEPTACLE TO BE MOUNTED DIRECTLY ON CABLE TRAY.
8 CONTRACTOR TO PROVIDE NEW L21-20R RECEPTACLE FOR NEW RACK POWER. RECEPTACLE TO BE MOUNTED DIRECTLY ON CABLE TRAY.
9 CONTRACTOR TO PROVIDE NEW 208V, 60A, 3-PHASE POWER TERMINATING IN HARD-WIRED JUNCTION BOX FOR NEW RACK POWER. JUNCTION BOX TO BE MOUNTED DIRECTLY ON CABLE TRAY.
10 CONTRACTOR TO PROVIDE CONNECTION TO NEW MECHANICAL PUMP. COORDINATE WITH MECHANICAL DRAWINGS FOR LOCATION. PROVIDE CONDUITS AND CONDUCTORS AS REQUIRED FOR COMPLETE OPERATION.



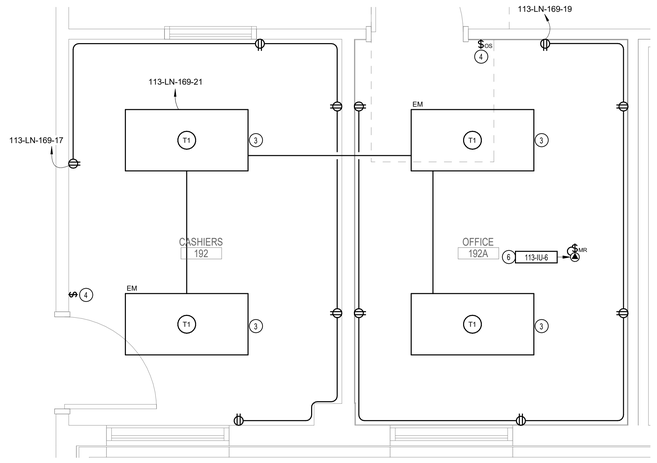
4 ENLARGED ROOM - TCS103 ELECTRICAL REMODEL
1/2" = 1'-0"



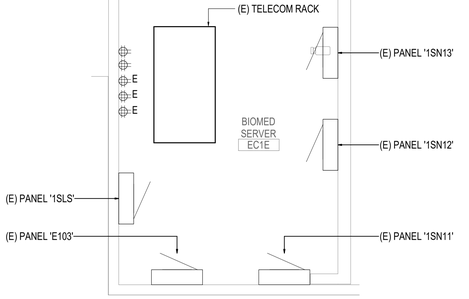
5 ENLARGED ROOM - 187A ELECTRICAL REMODEL
1/2" = 1'-0"



1 ENLARGED ROOM - 169 ELECTRICAL REMODEL
1/2" = 1'-0"



2 ENLARGED ROOM - 192A ELECTRICAL REMODEL
1/2" = 1'-0"



3 ENLARGED ROOM - EC1E ELECTRICAL REMODEL
1/2" = 1'-0"

PROJECT KEY PLAN

Revisions:	Date:

CONSULTANT
ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD
A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP
EDWARD ADAM GODDIN — STATE OF WASHINGTON — 21702 — REGISTERED PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: ELECTRICAL REMODEL PLAN - FIRST FLOOR ENLARGED PLANS
PHASE: 100% CONSTRUCTION DOCUMENTS
PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES
PROJECT NUMBER: 568-21-701
BUILDING NUMBER: 113
APPROVED: Project Director: FOR OFFICIAL USE ONLY (FOUO)
FLS: FULLY SPRINKLERED
LOCATION: FORT MEADE, SOUTH DAKOTA
ISSUE DATE: 11/05/2024
CHECKED BY: MER
DRAWN BY: AJW
DRAWING NUMBER: 113-EP-012

VA FORM 08 - 6231

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	MODEL #	LAMP TYPE	CRI	DELIVERED LUMENS	COLOR TEMP	INPUT WATTS	FINISH
S1	LED STRIP LIGHT FIXTURE, LENSED, WHITE HOUSING, PROVIDE WITH E10WLCP EM DRIVER WHERE NOTED AS EMERGENCY ON PLANS.	LITHONIA	#ZL1N-L48-7000LM-FST-MVOLT-40K-80CRI -WH (E10WLCP)	LED	80	6,785	4000K	52	WHITE
T1	2' X 2' LED TROFFER. RIBBED REFLECTOR, CURVED RIBBED DIFFUSER. PROVIDE WITH EMERGENCY BATTERY PACK OPTION #E10WLCP WHERE SHOWN AS EMERGENCY ON PLANS.	LITHONIA	#2BLT2-48L-ADP-EZ1-LP840 (E10WLCP)	LED	82	5,159	4000K	42.9	WHITE
T2	2' X 4' LED TROFFER. RIBBED REFLECTOR, CURVED RIBBED DIFFUSER. PROVIDE WITH EMERGENCY BATTERY PACK OPTION #E10WLCP WHERE SHOWN AS EMERGENCY ON PLANS.	LITHONIA	#2BLT4-48L-ADP-EZ1-LP840 (E10WLCP)	LED	82	5,169	4000K	39.3	WHITE

BLDG 113 - SECOND FLOOR EQUIPMENT SCHEDULE

EQUIPMENT TAG	RATED VOLTAGE	VOLTAGE PHASE	HP	KW	FLA	MCA	MOCP	# PARALLEL CONDUCTORS	BRANCH CIRCUIT RACEWAY	BRANCH CIRCUIT PHASE	BRANCH CIRCUIT N	BRANCH CIRCUIT G	DISCONNECT SIZE	DISCONNECT FUSE	NOTES
MECHANICAL EQUIPMENT															
113-IU-5	208	1	-	-	0.3	14.0	15	-	3/4"	2#12	-	#12	-	-	3
113-OU-3	208	1	-	-	-	24.0	35	-	3/4"	2#8	-	#10	60	35	1
113-OU-5	208	3	-	-	-	24.0	35	-	3/4"	3#8	-	#10	60	35	1
TELECOMMUNICATIONS EQUIPMENT															
RK-216-1A	208	3	-	10.00	-	-	20	-	3/4"	3#12	1#12	#12	-	-	2
RK-216-1B	208	3	-	10.00	-	-	20	-	3/4"	3#12	1#12	#12	-	-	2

NOTES
1. PROVIDE NEW DISCONNECT.
2. PROVIDE NEMA L21-20R INTERLOCKING RECEPTACLE.
3. PROVIDE NEW MOTOR-RATED SWITCH.

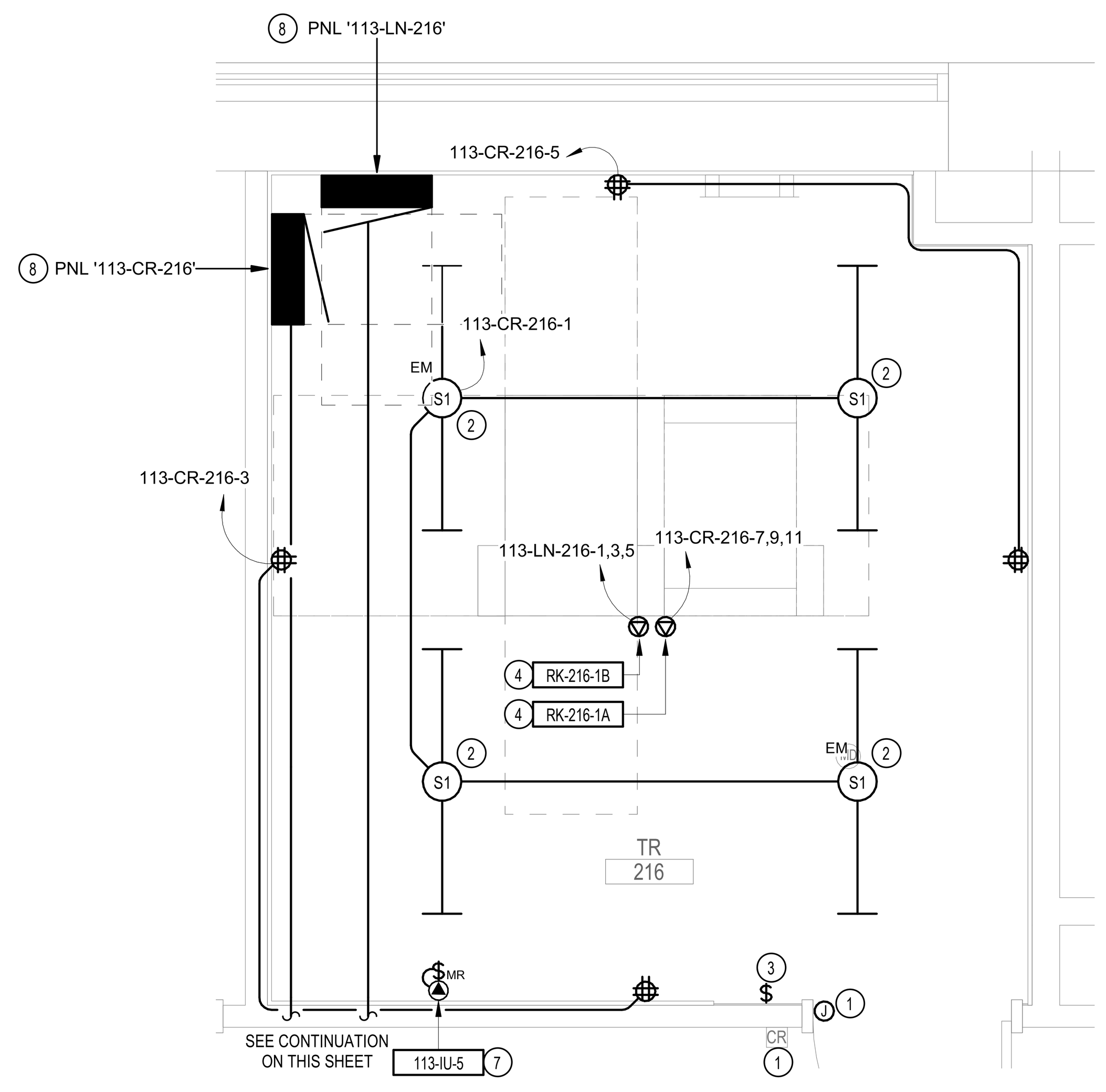
THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

GENERAL NOTES

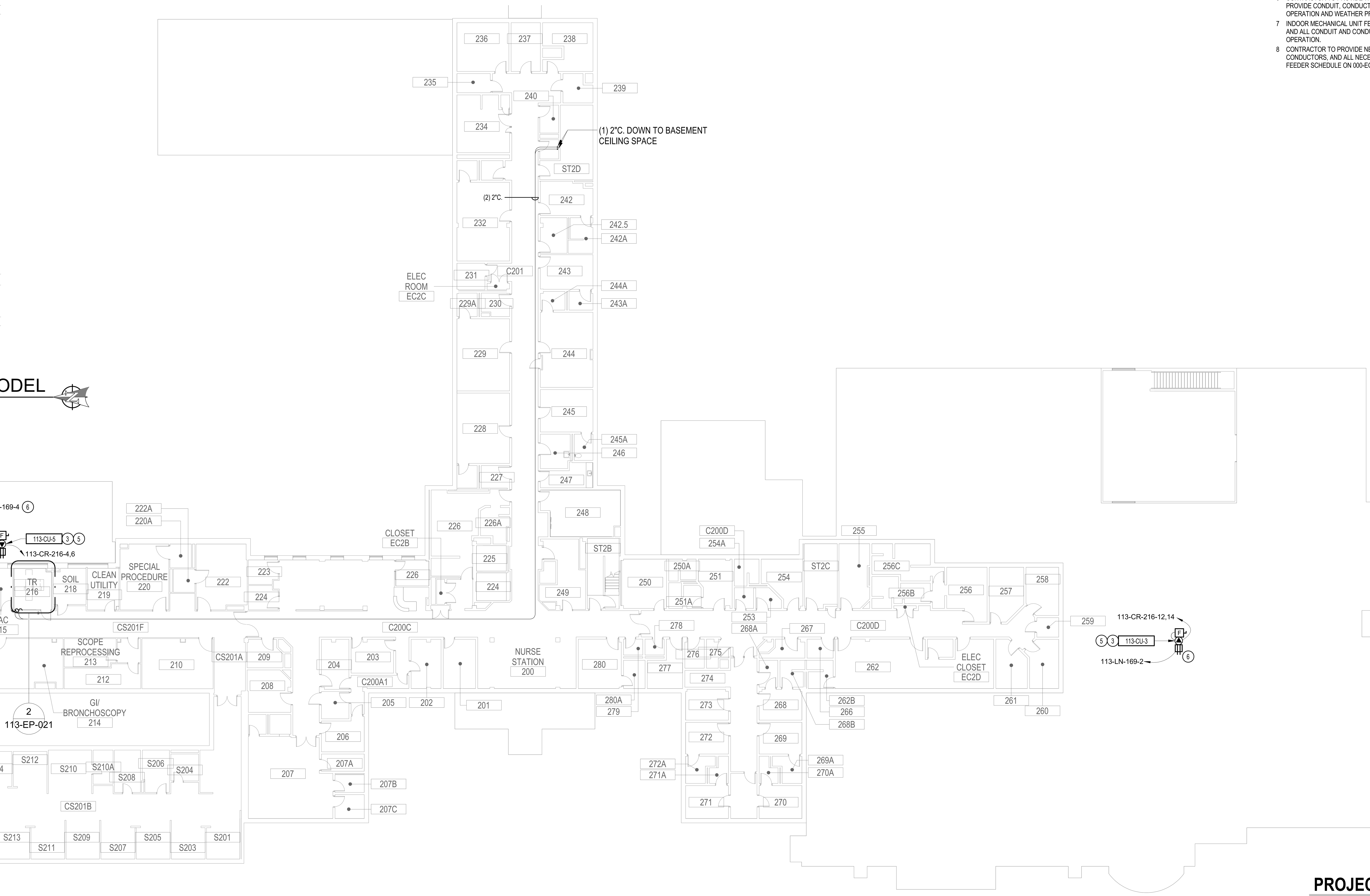
1. COORDINATE EXACT LOCATION OF MECHANICAL AND TELECOMMUNICATIONS EQUIPMENT WITH THE CORRESPONDING DISCIPLINE'S DRAWINGS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMOPORARILY MOVING AND RETURNING FURNITURE, FIXTURES, AND EQUIPMENT WITHIN SPACES AS REQUIRED TO COMPLETE EACH DAYS WORK. THE VA WILL REMOVE OR SECURE PHI,, PPI, AND PERSONALY PROPERTY. COORDINATE THIS WORK WITH THE COR.
3. REFER TO ASSOCIATED TN SHEETS FOR RACK QUANTITES IN EXISTING AND NEW TR SPACES.
4. REFER TO ELECTRICAL FEEDER SCHEDULES ON SHEET 000-EG-001 FOR CONDUIT AND CONDUCTOR FEEDER REQUIREMENTS.
5. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
6. CONDUIT ROUTING SHOWN IS SCHEMATIC BY DESIGN. CONTRACTOR SHALL VERIFY FEASIBILITY PRIOR TO INSTALLATION.

KEYNOTES

1 CONTRACTOR TO PROVIDE RACEWAY AND BOXES FOR ACCESS CONTROLS SYSTEM COMPONENTS.
2 CONTRACTOR TO PROVIDE NEW LIGHT FIXTURE. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION. REFER TO LIGHT FIXTURE SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION AMD REQUIREMENTS.
3 CONTRACTOR TO PROVIDE NEW DISCONNECT WITH NEW FUSES FOR NEW MECHANICAL EQUIPMENT. SEE ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.
4 CONTRACTOR TO PROVIDE NEW L21-20R RECEPTACLE FOR NEW RACK POWER. RECEPTACLE TO BE MOUNTED DIRECTLY ON CABLE TRAY.
5 CONTRACTOR TO PROVIDE CONDUIT AND CONDUCTORS FOR NEW OUTDOOR MECHANICAL UNIT. SEE ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.
6 CONTRACTOR TO PROVIDE WET-RATED CONVENIANCE RECEPTACLE MOUNTED BELOW DISCONNECT. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION AND WEATHER PROTECTION.
7 INDOOR MECHANICAL UNIT FED BY OUTDOOR MECHANICAL UNIT. PROVIDE NEW MOTOR-RATED SWITCH AND ALL CONDUIT AND CONDUCTORS FROM CONTROLS TO INDOOR UNIT AS REQUIRED FOR COMPLETE OPERATION.
8 CONTRACTOR TO PROVIDE NEW 208Y/120V, 100A, PANELBOARD. CONTRACTOR TO PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION. REFER TO FEEDER SCHEDULE ON 000-EG-001 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

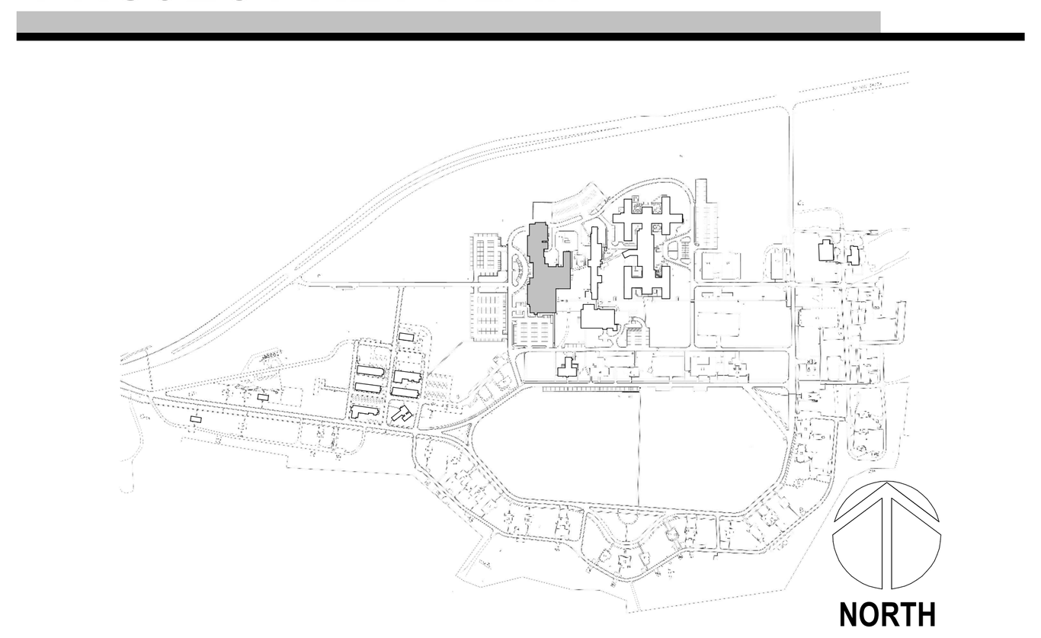


2 ENLARGED ROOM - 216 ELECTRICAL REMODEL
1/2" = 1'-0"



1 ELECTRICAL REMODEL PLAN - BLDG 113 SECOND FLOOR
1/16" = 1'-0"

PROJECT KEY PLAN



Revisions:	Date:

CONSULTANT
ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD
A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT
VA U.S. Department of Veterans Affairs

DRAWING TITLE: ELECTRICAL REMODEL PLAN - SECOND FLOOR LAYOUT
APPROVED: Project Director
FOR OFFICIAL USE ONLY (FOUO)

PHASE: 100% CONSTRUCTION DOCUMENTS
FLS: FULLY SPRINKLERED

PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES
LOCATION: FORT MEADE, SOUTH DAKOTA

ISSUE DATE	CHECKED BY	DRAWN BY
11/05/2024	MER	AJW

PROJECT NUMBER: 568-21-701
BUILDING NUMBER: 113
DRAWING NUMBER: 113-EP-021

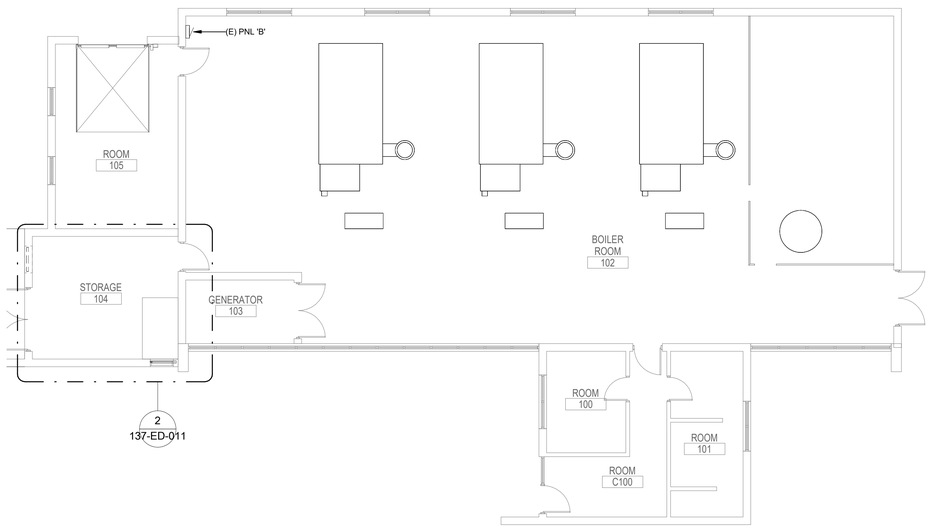
VA FORM 08 - 6231

GENERAL DEMOLITION NOTES

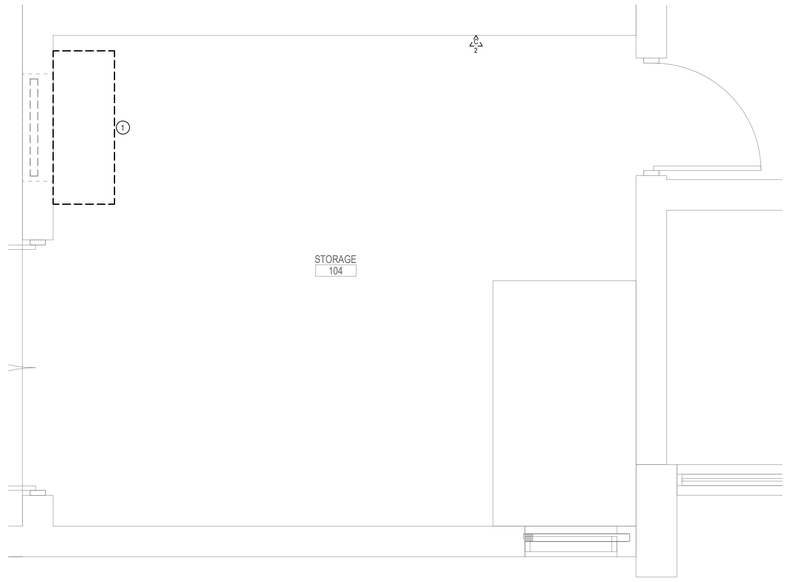
1. CONTRACTOR SHALL COORDINATE ALL OUTAGES WITH THE COR PRIOR TO BEGINNING WORK. GREAT CARE SHALL BE TAKEN TO MINIMIZE OUTAGE DURATION TO SHORTEST EXTENT POSSIBLE. NO DEMOLITION SHALL OCCUR ON THE UPS SYSTEM, LIFE SAFETY SYSTEM, TELECOMMUNICATIONS SYSTEM, OR ANY OTHER CRITICAL SYSTEM UNTIL THE NEW/REPLACEMENT SYSTEMS ARE IN PLACE AND READY FOR SWITCHOVER.
2. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM RECORD DRAWINGS AND/OR A NON-DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.
3. THE COR SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS. THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A WAREHOUSE AS DIRECTED BY THE COR. THE CONTRACTOR SHALL DISPOSE OF, OFF SITE, ALL UNWANTED MATERIALS.
4. DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
5. COORDINATE WITH THE OTHER DISCIPLINE DRAWINGS FOR AREAS OF DEMOLITION AND NEW WORK. PROVIDE MINOR RELOCATION OF LIGHT FIXTURES AND DEVICES TO ACCOMMODATE NEW MECHANICAL AND TELECOM EQUIPMENT LOCATIONS.
6. FOR WALL/CEILINGS SCHEDULED TO BE DEMOLISHED, DEMOLISH ALL CONDUIT, WIRE, DEVICES, BOXES, ETC. BACK TO THE EXTENT PRACTICAL TO ACCOMMODATE DEMOLITION. RELOCATE EXISTING LIGHT FIXTURES, DEVICES, CONDUIT, AND WIRE AS REQUIRED. PROVIDE EXTENSION OF CONDUIT AND WIRE AS REQUIRED TO ACCOMMODATE RELOCATED ITEMS.
7. FOR THE RENOVATED TELECOMMUNICATIONS ROOMS WITH NEW PAINTED PLYWOOD WALLS, CONTRACTOR SHALL DISCONNECT AND TEMPORARILY REMOVE ALL ELECTRICAL DEVICES, BOXES, CONDUIT, AND WIRE TO ALLOW FOR PLYWOOD INSTALLATION. REINSTALL ALL DEVICES BACK IN SAME LOCATIONS AND PROVIDE BOX EXTENSIONS, CIRCUIT EXTENSIONS, ETC. AS REQUIRED TO ACCOMMODATE RENOVATION.
8. COORDINATE WITH THE OTHER DISCIPLINE DRAWINGS FOR AREAS OF DEMOLITION AND NEW WORK.
9. LIGHTING AND RECEPTACLES SHALL REMAIN IN EXISTING TELECOM ROOMS. NO DEMOLITION UNLESS OTHERWISE NOTED

KEYNOTES

1 EXISTING MECHANICAL EQUIPMENT TO BE REMOVED BY MECHANICAL. CONTRACTOR TO REMOVE EXISTING CONDUIT AND CONDUCTORS BACK TO SOURCE.



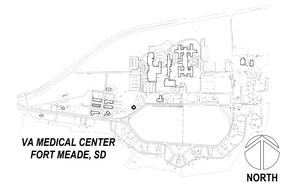
1 ELECTRICAL DEMOLITION PLAN - BLDG 137 FIRST FLOOR
1/8" = 1'-0"



2 ENLARGED ROOM - 104 POWER DEMOLITION
1/2" = 1'-0"

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

PROJECT KEY PLAN



VA MEDICAL CENTER FORT MEADE, SD

NORTH

Revisions:	Date:

CONSULTANT

ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD

A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

ADAM EDWARD GODDIN — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: ELECTRICAL DEMOLITION PLAN - FIRST FLOOR

PHASE: 100% CONSTRUCTION DOCUMENTS

PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES

PROJECT NUMBER: 568-21-701

BUILDING NUMBER: 137

APPROVED: Project Director

FOR OFFICIAL USE ONLY (FOUO)

FLS: FULLY SPRINKLERED

LOCATION: FORT MEADE, SOUTH DAKOTA

ISSUE DATE: 11/05/2024 | CHECKED BY: MER | DRAWN BY: AJW

DRAWING NUMBER: 137-ED-011

VA FORM 08 - 6231

BLDG 137 - EQUIPMENT SCHEDULE															
EQUIPMENT TAG	RATED VOLTAGE	VOLTAGE PHASE	HP	KW	FLA	MCA	MOCP	# PARALLEL CONDUCTORS	BRANCH CIRCUIT RACEWAY	BRANCH CIRCUIT PHASE	BRANCH CIRCUIT N	BRANCH CIRCUIT G	DISCONNECT SIZE	DISCONNECT FUSE	NOTES
MECHANICAL EQUIPMENT															
137-IU-1	208	1	-	-	-	14.0	15	-	3/4"	2#12	-	#12	-	-	3
137-OU-1	208	1	-	-	-	11.0	15	-	3/4"	2#12	-	#12	30	15	1
TELECOMMUNICATIONS EQUIPMENT															
RK-104-1A	120	1	-	2.88	-	-	30	-	3/4"	2#10	-	#10	-	-	2
RK-104-1B	120	1	-	2.88	-	-	30	-	3/4"	2#10	-	#10	-	-	2

NOTES
1. PROVIDE NEW DISCONNECT.
2. PROVIDE NEMA L5-30 RECEPTACLE.
3. PROVIDE NEW MOTOR-RATED SWITCH.

GENERAL NOTES

1. COORDINATE EXACT LOCATION OF MECHANICAL AND TELECOMMUNICATIONS EQUIPMENT WITH THE CORRESPONDING DISCIPLINE'S DRAWINGS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMOPORARILY MOVING AND RETURNING FURNITURE, FIXTURES, AND EQUIPMENT WITHIN SPACES AS REQUIRED TO COMPLETE EACH DAYS WORK. THE VA WILL REMOVE OR SECURE PHI, , PPI, AND PERSONALY PROPERTY. COORDINATE THIS WORK WITH THE COR.
3. REFER TO ASSOCIATED TN SHEETS FOR RACK QUANTITES IN EXISTING AND NEW TR SPACES.
4. REFER TO ELECTRICAL FEEDER SCHEDULES ON SHEET 000-EG-001 FOR CONDUIT AND CONDUCTOR FEEDER REQUIREMENTS.
5. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
6. CONDUIT ROUTING SHOWN IS SCHEMATIC BY DESIGN. CONTRACTOR SHALL VERIFY FEASIBILITY PRIOR TO INSTALLATION.

KEYNOTES

1 CONTRACTOR TO PROVIDE RACEWAY AND BOXES FOR ACCESS CONTROLS SYSTEM COMPONENTS.

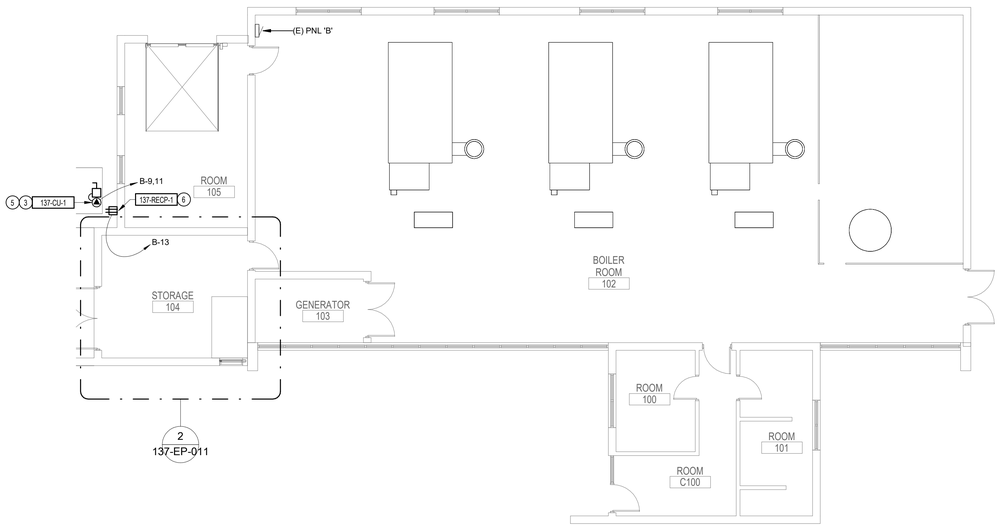
2 CONTRACTOR TO PROVIDE NEW L5-30 RECEPTACLE IN NEW JUNCTION BOX FOR NEW TELECOMMUNICATIONS ENCLOSURE UPS. ALIGN JUNCTION BOX TO ENCLOSURE 6"W" CUTOUT BEHIND RACK. L5-30 RECEPTACLES TO BE MOUNTED IN SINGLE JUNCTION BOX UNLESS OTHERWISE NOTED.

3 CONTRACTOR TO PROVIDE NEW DISCONNECT WITH NEW FUSES FOR NEW MECHANICAL EQUIPMENT. SEE ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION

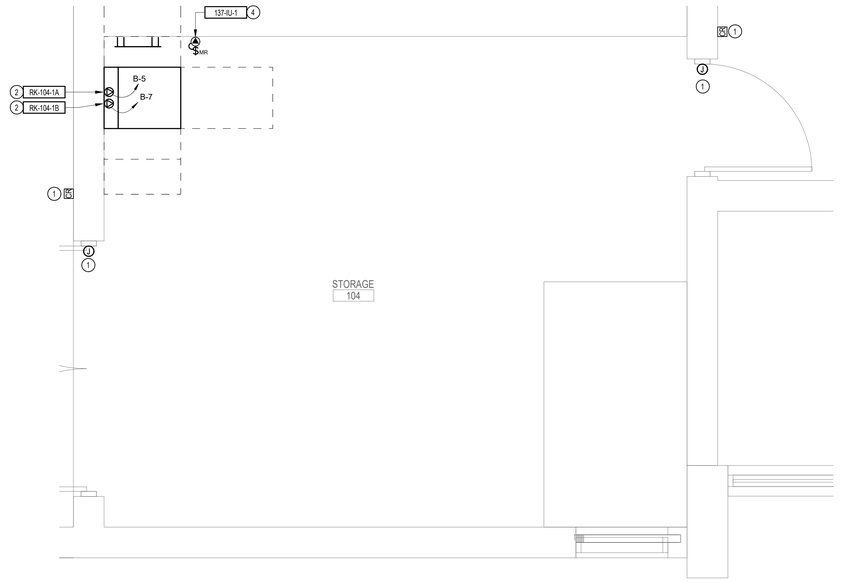
4 INDOOR MECHANICAL UNIT FED BY OUTDOOR MECHANICAL UNIT. PROVIDE NEW MOTOR-RATED SWITCH AND ALL CONDUIT AND CONDUCTORS FROM CONTROLS TO INDOOR UNIT AS REQUIRED FOR COMPLETE OPERATION.

5 CONTRACTOR TO PROVIDE CONDUIT AND CONDUCTORS FOR NEW OUTDOOR MECHANICAL UNIT. SEE ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.

6 CONTRACTOR TO PROVIDE WET-RATED CONVENIANCE RECEPTACLE. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION AND WEATHER PROTECTION.



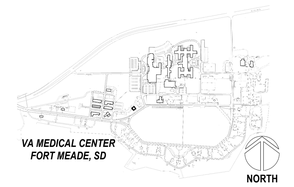
1 ELECTRICAL REMODEL PLAN - BLDG 137 FIRST FLOOR
1/8" = 1'-0"



2 ENLARGED ROOM - 104 POWER REMODEL
1/2" = 1'-0"

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

PROJECT KEY PLAN



VA MEDICAL CENTER
FORT MEADE, SD

NORTH

Revisions:	Date:

CONSULTANT
ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD
A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS - ENGINEERS

STAMP

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: ELECTRICAL REMODEL PLAN - FIRST FLOOR
PHASE: 100% CONSTRUCTION DOCUMENTS
PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES
PROJECT NUMBER: 568-21-701
BUILDING NUMBER: 137
APPROVED: Project Director: FOR OFFICIAL USE ONLY (FOUO)
FLS: FULLY SPRINKLERED
LOCATION: FORT MEADE, SOUTH DAKOTA
ISSUE DATE: 11/05/2024
CHECKED BY: MER
DRAWN BY: AJW
DRAWING NUMBER: 137-EP-011

VA FORM 08 - 6231

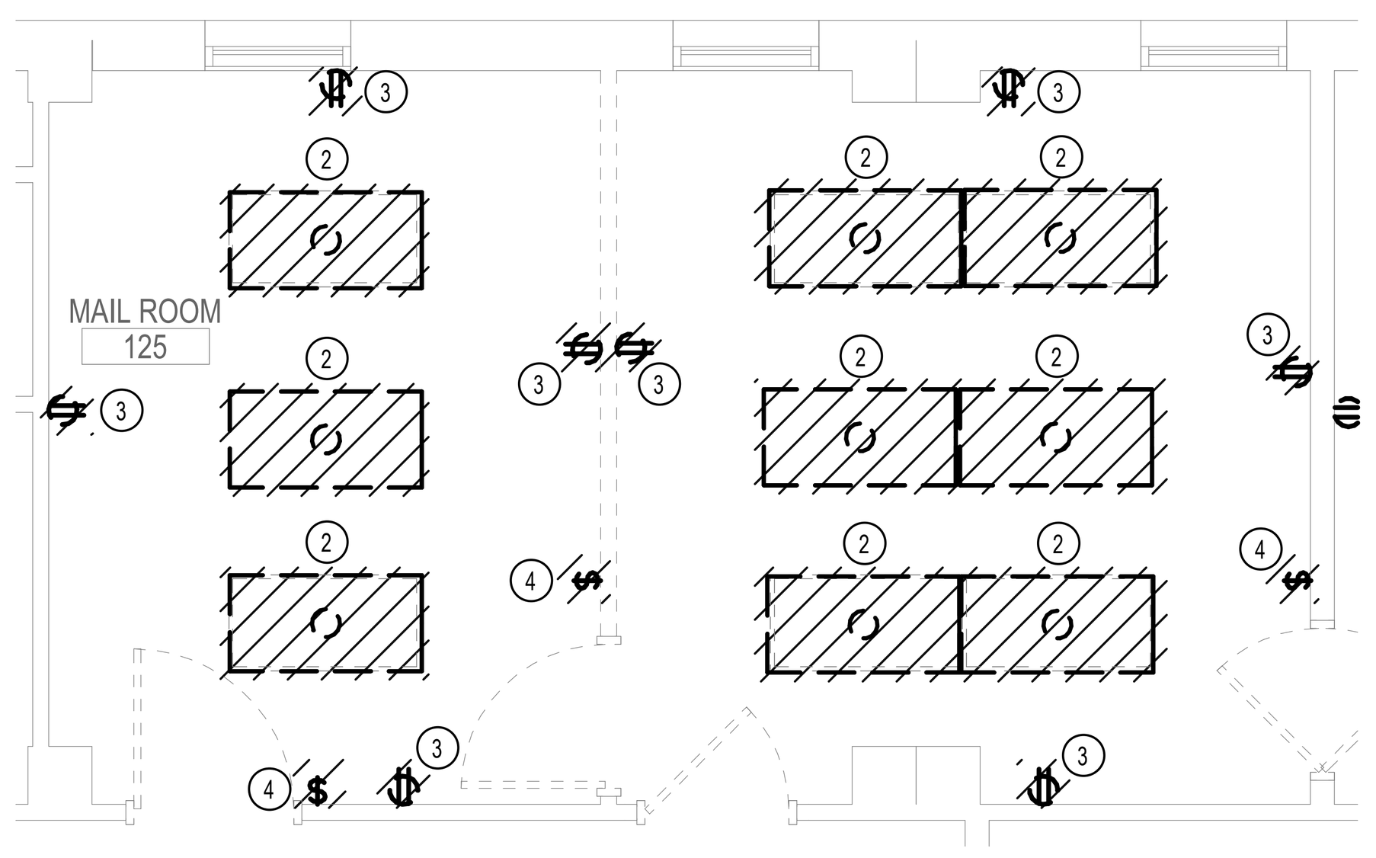
THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

GENERAL DEMOLITION NOTES

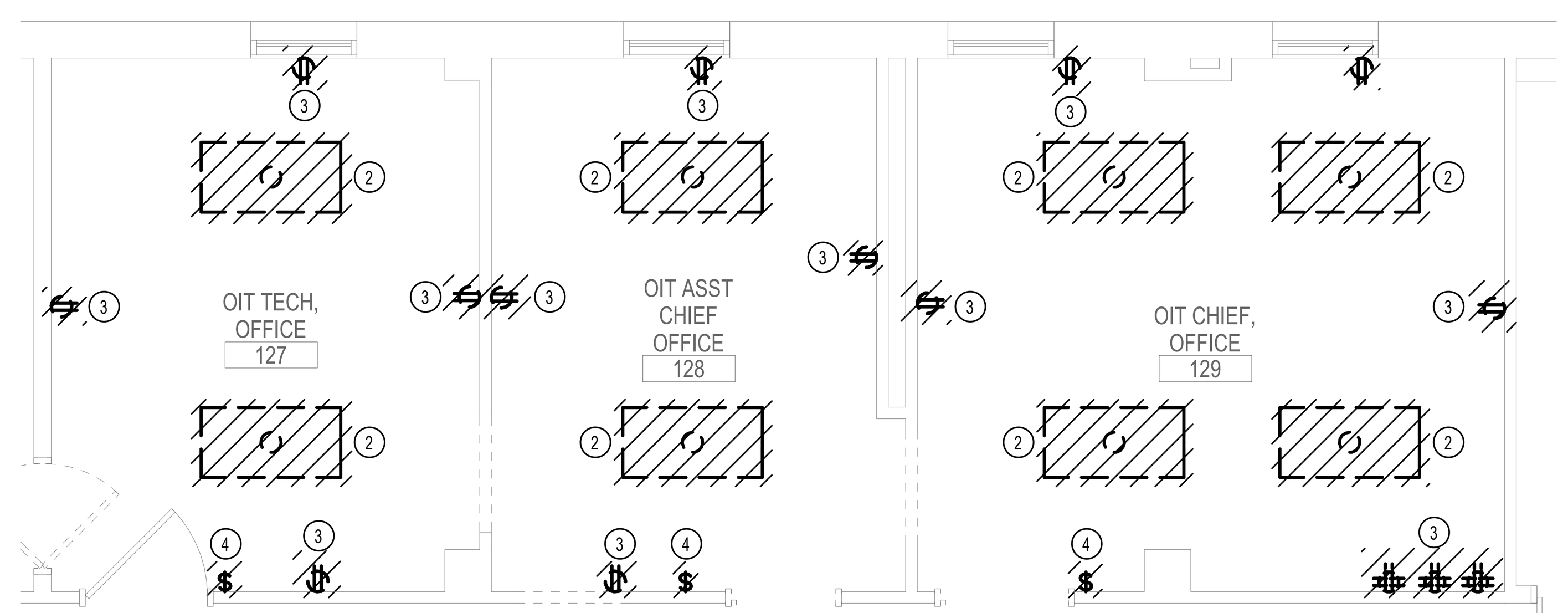
1. CONTRACTOR SHALL COORDINATE ALL OUTAGES WITH THE COR PRIOR TO BEGINNING WORK. GREAT CARE SHALL BE TAKEN TO MINIMIZE OUTAGE DURATION TO SHORTEST EXTENT POSSIBLE. NO DEMOLITION SHALL OCCUR ON THE UPS SYSTEM, LIFE SAFETY SYSTEM, TELECOMMUNICATIONS SYSTEM, OR ANY OTHER CRITICAL SYSTEM UNTIL THE NEW/REPLACEMENT SYSTEMS ARE IN PLACE AND READY FOR SWITCHOVER.
2. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM RECORD DRAWINGS AND/OR A NON-DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.
3. THE COR SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS. THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A WAREHOUSE AS DIRECTED BY THE COR. THE CONTRACTOR SHALL DISPOSE OF, OFF SITE, ALL UNWANTED MATERIALS.
4. DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
5. COORDINATE WITH THE OTHER DISCIPLINE DRAWINGS FOR AREAS OF DEMOLITION AND NEW WORK. PROVIDE MINOR RELOCATION OF LIGHT FIXTURES AND DEVICES TO ACCOMMODATE NEW MECHANICAL AND TELECOM EQUIPMENT LOCATIONS.
6. FOR WALL/CEILINGS SCHEDULED TO BE DEMOLISHED, DEMOLISH ALL CONDUIT, WIRE, DEVICES, BOXES, ETC. BACK TO THE EXTENT PRACTICAL TO ACCOMMODATE DEMOLITION. RELOCATE EXISTING LIGHT FIXTURES, DEVICES, CONDUIT, AND WIRE AS REQUIRED. PROVIDE EXTENSION OF CONDUIT AND WIRE AS REQUIRED TO ACCOMMODATE RELOCATED ITEMS.
7. FOR THE RENOVATED TELECOMMUNICATIONS ROOMS WITH NEW PAINTED PLYWOOD WALLS, CONTRACTOR SHALL DISCONNECT AND TEMPORARILY REMOVE ALL ELECTRICAL DEVICES, BOXES, CONDUIT, AND WIRE TO ALLOW FOR PLYWOOD INSTALLATION. REINSTALL ALL DEVICES BACK IN SAME LOCATIONS AND PROVIDE BOX EXTENSIONS, CIRCUIT EXTENSIONS, ETC. AS REQUIRED TO ACCOMMODATE RENOVATION.
8. COORDINATE WITH THE OTHER DISCIPLINE DRAWINGS FOR AREAS OF DEMOLITION AND NEW WORK.
9. LIGHTING AND RECEPTACLES SHALL REMAIN IN EXISTING TELECOM ROOMS. NO DEMOLITION UNLESS OTHERWISE NOTED

KEYNOTES

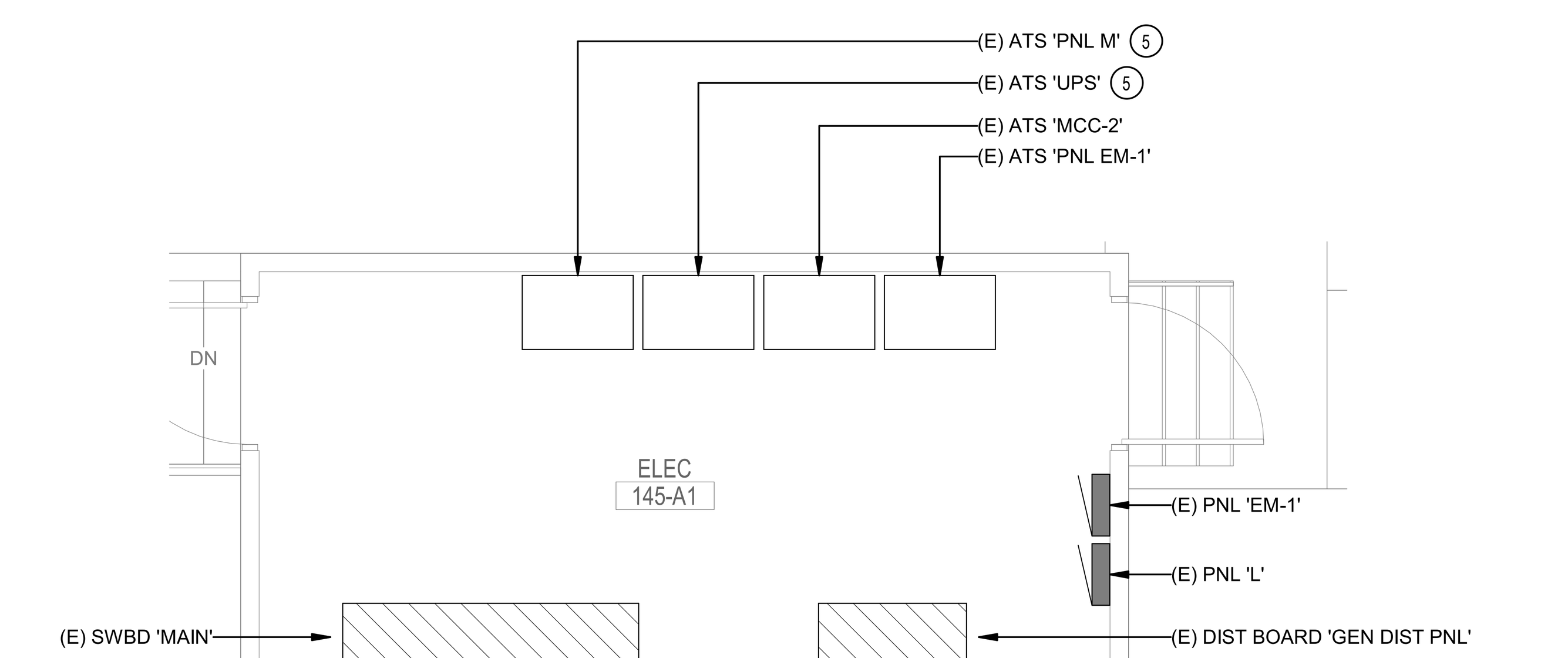
1 EXISTING MECHANICAL EQUIPMENT AND ASSOCIATED DISCONNECT TO BE REMOVED. CONTRACTOR TO REMOVE EXISTING CONDUIT AND CONDUCTORS BACK TO SOURCE.
2 LIGHT FIXTURE TO BE REMOVED. CONTRACTOR TO REMOVE EXISTING CONDUIT AND CONDUCTORS BACK TO SOURCE. MAINTAIN CIRCUIT CONTINUITY FOR EXISTING LIGHT FIXTURES TO REMAIN.
3 EXISTING ELECTRICAL RECEPTACLES TO BE REMOVED. CONTRACTOR TO REMOVE EXISTING CONDUIT AND CONDUCTORS BACK TO SOURCE.
4 EXISTING LIGHT SWITCH TO BE REMOVED. REMOVE CONDUIT AND CONDUCTORS BACK TO SOURCE.
5 EXISTING ATS FEEDING EQUIPMENT BEING REMOVED TO REMAIN AS SPARE. REMOVE CONDUCTORS FROM EQUIPMENT BEING REMOVED BACK TO ATS. EXISTING CONDUITS TO BE REMOVED BETWEEN EQUIPMENT BEING REMOVED AND ENTRY POINT INTO THE BUILDING. THE REMAINING UNDERGROUND CONDUIT FROM EXTERIOR BUILDING TO BUILDING 145 TO REMAIN.



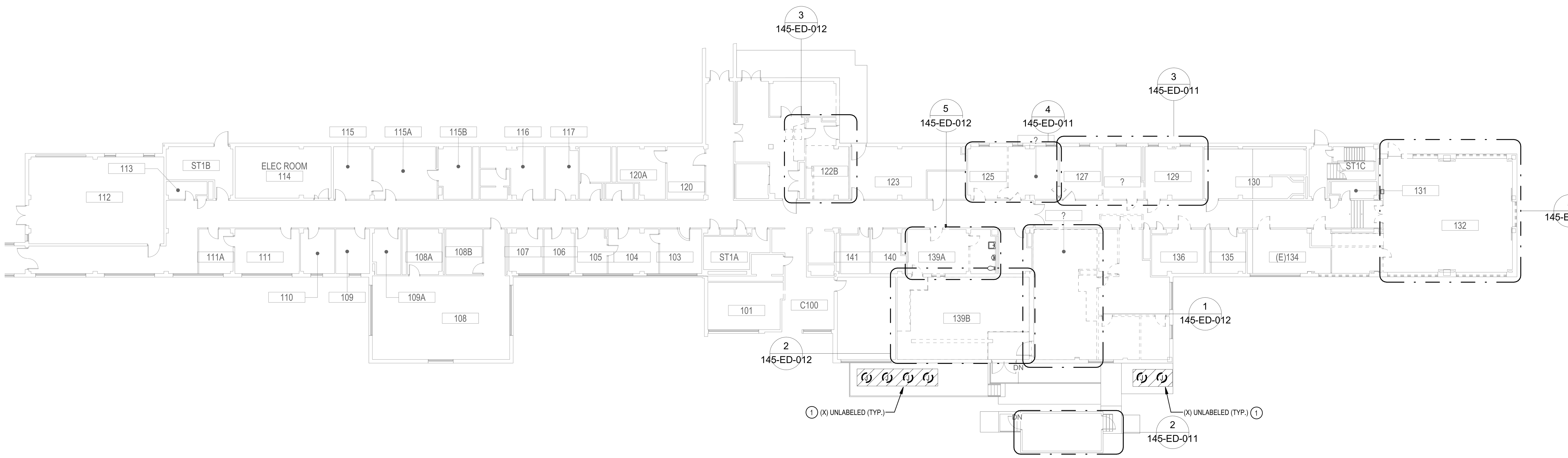
4 ENLARGED ROOM - 125 & 126 ELECTRICAL DEMOLITION
1/4" = 1'-0"



3 ENLARGED ROOM - 127, 128, & 129 ELECTRICAL DEMOLITION
1/4" = 1'-0"

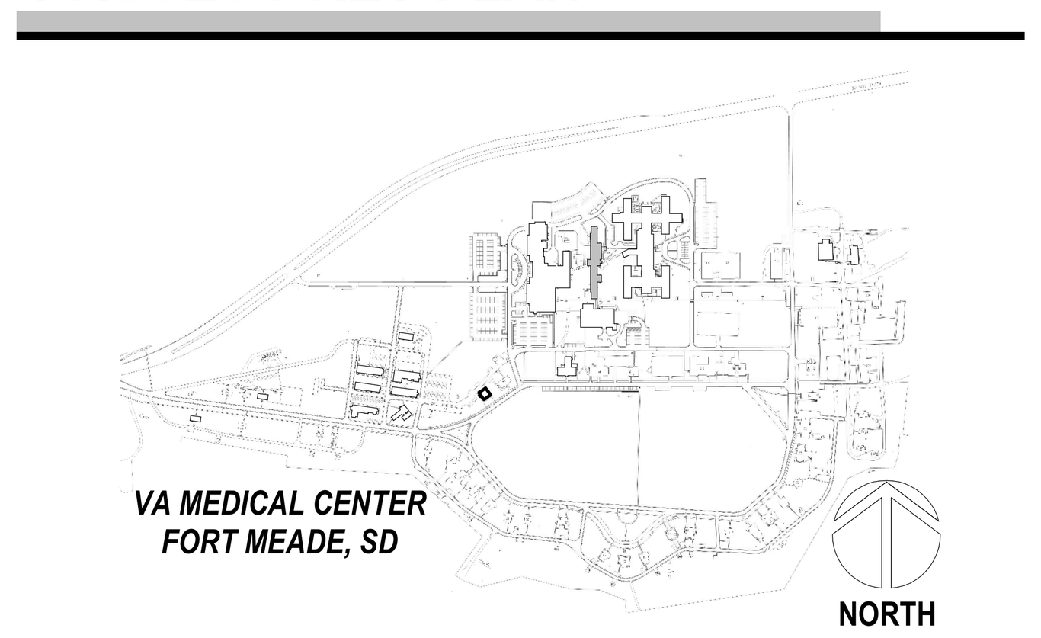


2 ENLARGED BUILDING - BLDG 145 EXTERIOR MAIN ELECTRICAL DEMOLITION
1/4" = 1'-0"



1 ELECTRICAL DEMOLITION PLAN - BLDG 145 FIRST FLOOR
1/16" = 1'-0"

PROJECT KEY PLAN



Revisions:	Date:

CONSULTANT

ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
360.936.3076
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD

A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.426.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

MICHAEL EDWARD REBSTOCK STATE OF WASHINGTON 49709 REGISTERED PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: ELECTRICAL DEMOLITION PLAN - FIRST FLOOR

APPROVED: Project Director

FOR OFFICIAL USE ONLY (FOUO)

PHASE: 100% CONSTRUCTION DOCUMENTS

FLS: FULLY SPRINKLERED

PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES

LOCATION: FORT MEADE, SOUTH DAKOTA

ISSUE DATE	CHECKED BY	DRAWN BY
11/05/2024	MER	AJW

PROJECT NUMBER: 568-21-701

BUILDING NUMBER: 145

DRAWING NUMBER: 145-ED-011

VA FORM 08 - 6231

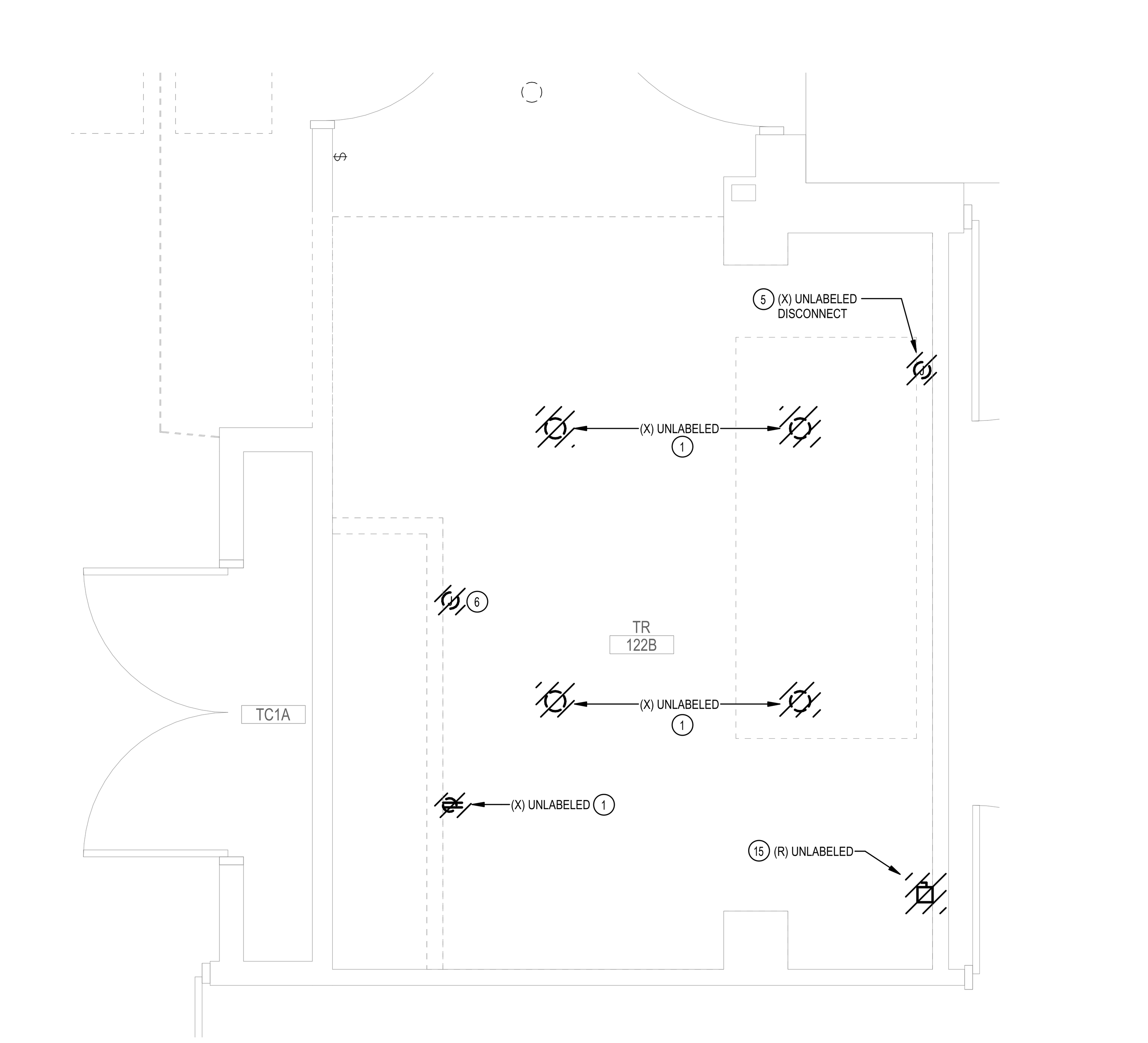
THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

GENERAL DEMOLITION NOTES

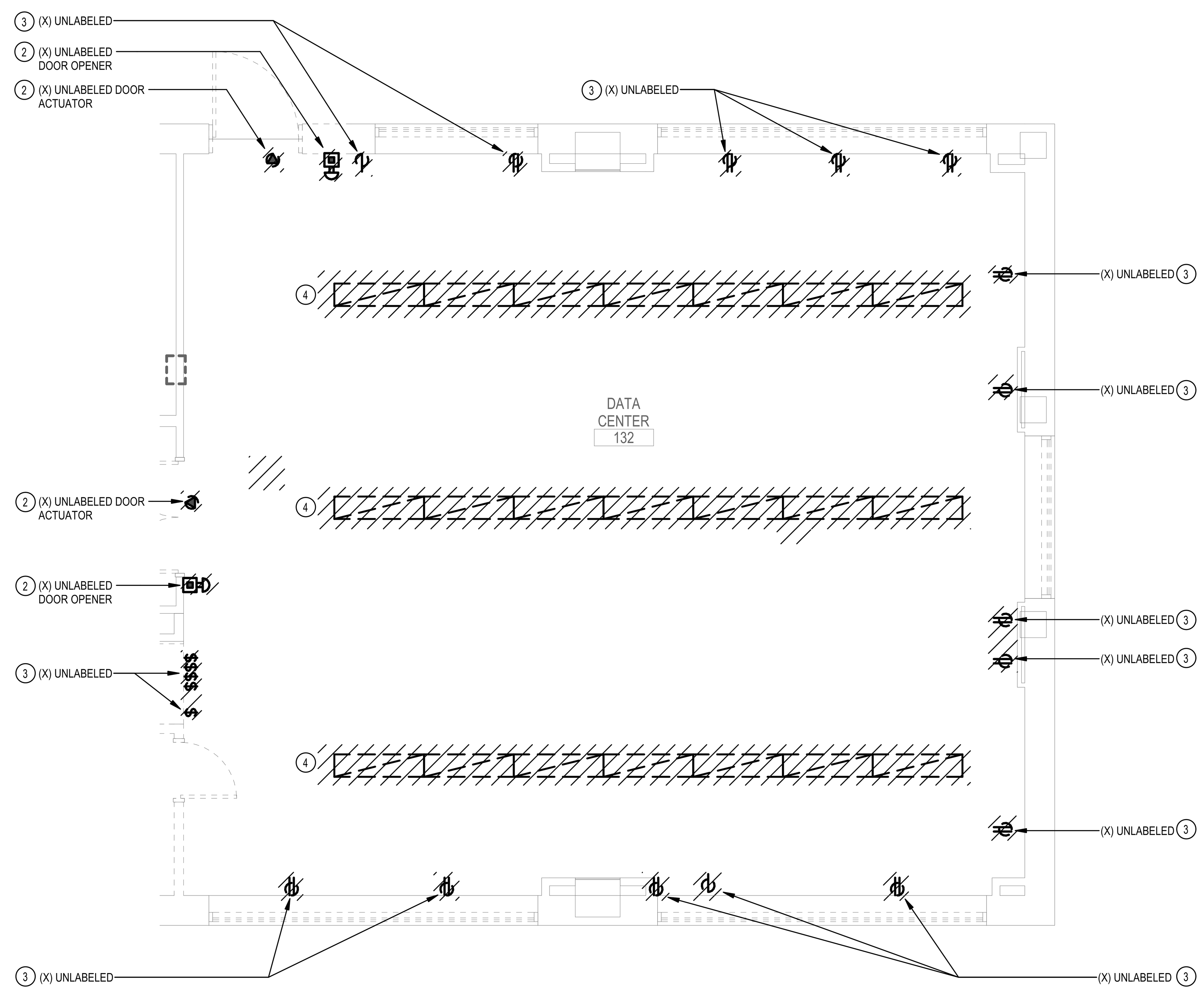
1. CONTRACTOR SHALL COORDINATE ALL OUTAGES WITH THE COR PRIOR TO BEGINNING WORK. GREAT CARE SHALL BE TAKEN TO MINIMIZE OUTAGE DURATION TO SHORTEST EXTENT POSSIBLE. NO DEMOLITION SHALL OCCUR ON THE UPS SYSTEM, LIFE SAFETY SYSTEM, TELECOMMUNICATIONS SYSTEM, OR ANY OTHER CRITICAL SYSTEM UNTIL THE NEW/REPLACEMENT SYSTEMS ARE IN PLACE AND READY FOR SWITCHOVER.
2. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM RECORD DRAWINGS AND/OR A NON-DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.
3. THE COR SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS. THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A WAREHOUSE AS DIRECTED BY THE COR. THE CONTRACTOR SHALL DISPOSE OF, OFF SITE, ALL UNWANTED MATERIALS.
4. DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
5. COORDINATE WITH THE OTHER DISCIPLINE DRAWINGS FOR AREAS OF DEMOLITION AND NEW WORK. PROVIDE MINOR RELOCATION OF LIGHT FIXTURES AND DEVICES TO ACCOMMODATE NEW MECHANICAL AND TELECOM EQUIPMENT LOCATIONS.
6. FOR WALL/CEILINGS SCHEDULED TO BE DEMOLISHED, DEMOLISH ALL CONDUIT, WIRE, DEVICES, BOXES, ETC. BACK TO THE EXTENT PRACTICAL TO ACCOMMODATE DEMOLITION. RELOCATE EXISTING LIGHT FIXTURES, DEVICES, CONDUIT, AND WIRE AS REQUIRED. PROVIDE EXTENSION OF CONDUIT AND WIRE AS REQUIRED TO ACCOMMODATE RELOCATED ITEMS.
7. FOR THE RENOVATED TELECOMMUNICATIONS ROOMS WITH NEW PAINTED PLYWOOD WALLS, CONTRACTOR SHALL DISCONNECT AND TEMPORARILY REMOVE ALL ELECTRICAL DEVICES, BOXES, CONDUIT, AND WIRE TO ALLOW FOR PLYWOOD INSTALLATION. REINSTALL ALL DEVICES BACK IN SAME LOCATIONS AND PROVIDE BOX EXTENSIONS, CIRCUIT EXTENSIONS, ETC. AS REQUIRED TO ACCOMMODATE RENOVATION.
8. COORDINATE WITH THE OTHER DISCIPLINE DRAWINGS FOR AREAS OF DEMOLITION AND NEW WORK.
9. LIGHTING AND RECEPTACLES SHALL REMAIN IN EXISTING TELECOM ROOMS. NO DEMOLITION UNLESS OTHERWISE NOTED

KEYNOTES

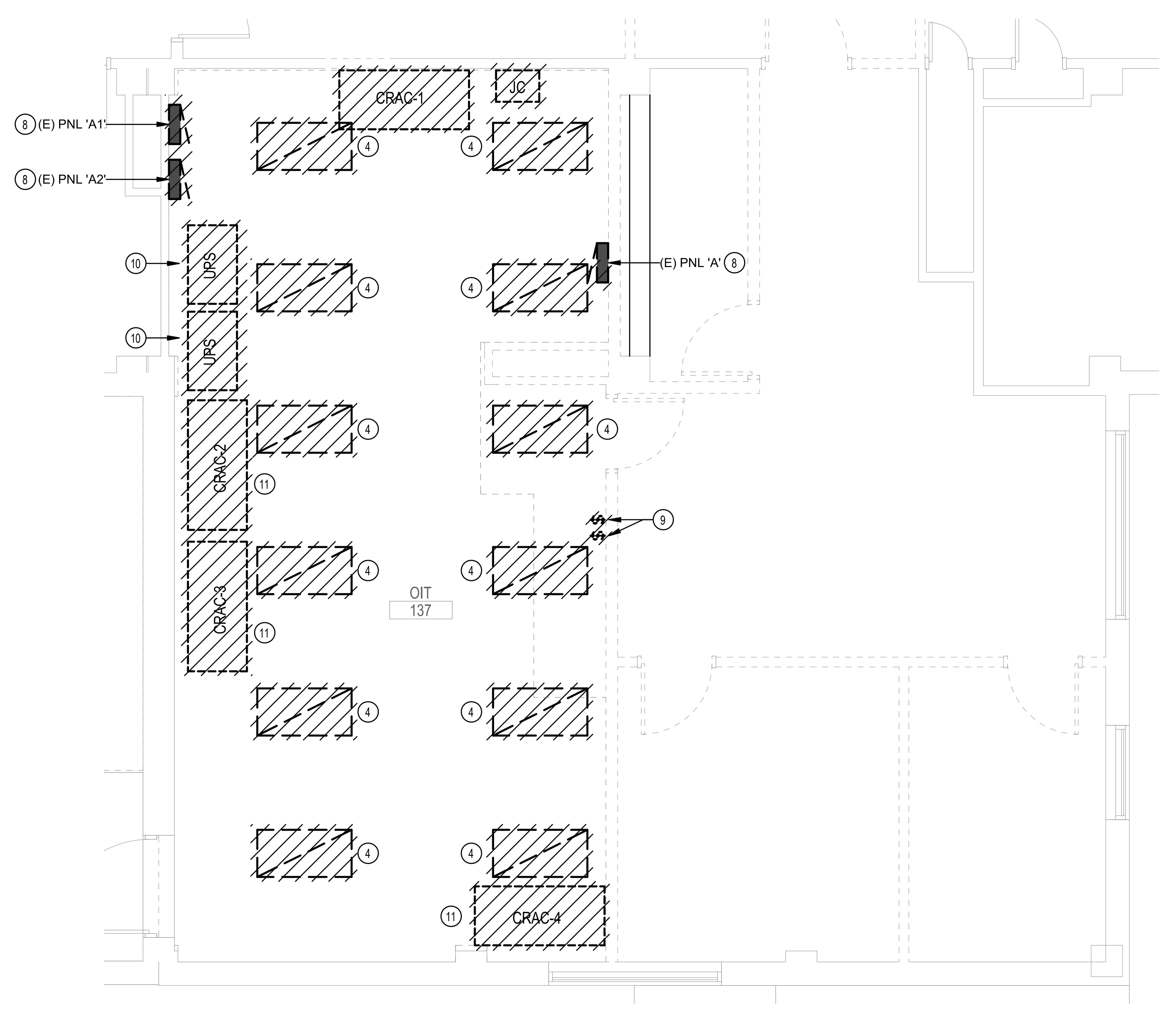
1 DEMOLISH SWITCHES, LIGHTING, AND RECEPTACLES. REMOVE CONDUIT AND CONDUCTORS BACK TO SOURCE.
2 CONTRACTOR TO REMOVE DOOR ACTUATOR AND SWITCH. REMOVE EXISTING RACEWAY, BOXES. REMOVE CONDUCTORS BACK TO SOURCE.
3 EXISTING ELECTRICAL RECEPTACLES TO BE REMOVED. CONTRACTOR TO REMOVE EXISTING CONDUIT AND CONDUCTORS BACK TO SOURCE.
4 EXISTING LIGHT FIXTURES TO BE REMOVED. MAINTAIN CIRCUIT CONTINUITY FOR REMAINING LIGHT FIXTURES IN CIRCUIT.
5 EXISTING BALER AND DISCONNECT TO BE REMOVED. REMOVE CONDUITS AND CONDUCTORS BACK TO SOURCE.
6 EXISTING JUNCTION BOX TO BE RELOCATED FROM ROOM 112B SOUTH WALL TO ADJOINING CORRIDOR NORTH WALL. REROUTE AND EXTEND CONDUITS AND CONDUCTORS TO NEW LOCATION. SEE SHEET 145-EP-012 FOR ADDITIONAL DETAILS.
7 EXISTING EQUIPMENT TO BE REMOVED. REMOVE CONDUITS AND CONDUCTORS BACK TO SOURCE. DEMOLITION TO OCCUR ONLY AFTER NEW MCR IS COMPLETELY OPERATIONAL AND CUTOVER TO NEW MCR HAS OCCURED.
8 EXISTING ELECTRICAL PANEL TO BE REMOVED AFTER COMPLETION OF NEW MCR. CONTRACTOR TO FIELD VERIFY ANY DEVICE CIRCUITS TO REMAIN AND IS TO RE-CIRCUIT TO NEW PANEL '145-P1'. SEE SHEET 145-EP-012 FOR LOCATION OF NEW PANEL '145-P1'.
9 EXISTING LIGHT SWITCH TO BE REMOVED. REMOVE CONDUIT AND CONDUCTORS BACK TO SOURCE.
10 EXISTING UPS TO BE REMOVED. REMOVE CONDUIT AND CONDUCTORS BACK TO SOURCE. DEMOLITION TO OCCUR ONLY AFTER NEW MCR IS COMPLETELY OPERATIONAL AND CUTOVER TO NEW MCR HAS OCCURED.
11 EXISTING MECHANICAL CRAC UNIT TO BE REMOVED. REMOVE CONDUIT AND CONDUCTORS BACK TO SOURCE. DEMOLITION TO OCCUR ONLY AFTER NEW MCR IS COMPLETELY OPERATIONAL AND CUTOVER TO NEW MCR HAS OCCURED.
12 EXISTING OCCUPANCY SENSOR TO BE REMOVED. CONTRACTOR TO REMOVE CONDUIT AND CONDUCTORS BACK TO SOURCE.
13 EXISTING PANEL TO BE DEMOLISHED. REMOVE FEEDERS BACK TO SOURCE AND ALL ASSOCIATED CIRCUITING AND WIRING DEVICES.
14 EXISTING ABANDONED INVERTER TO BE DEMOLISHED. REMOVE ALL ASSOCIATED FEEDER, CIRCUITING, AND WIRING DEVICES ASSOCIATED WITH THE INVERTER. DEMOLITION DOES NOT NEED TO BE COORDINATED WITH CONSTRUCTION OF NEW MCR.
15 EXISTING DISCONNECT & S.O. CORD FEEDING COMPACTOR TO BE RELOCATED. DISCONNECT AND MAINTAIN EXISTING CONDUIT AND CONDUCTOR FOR REUSE. SEE SHEET 145-EP-011 FOR NEW LOCATION OF RELOCATED DISCONNECT.



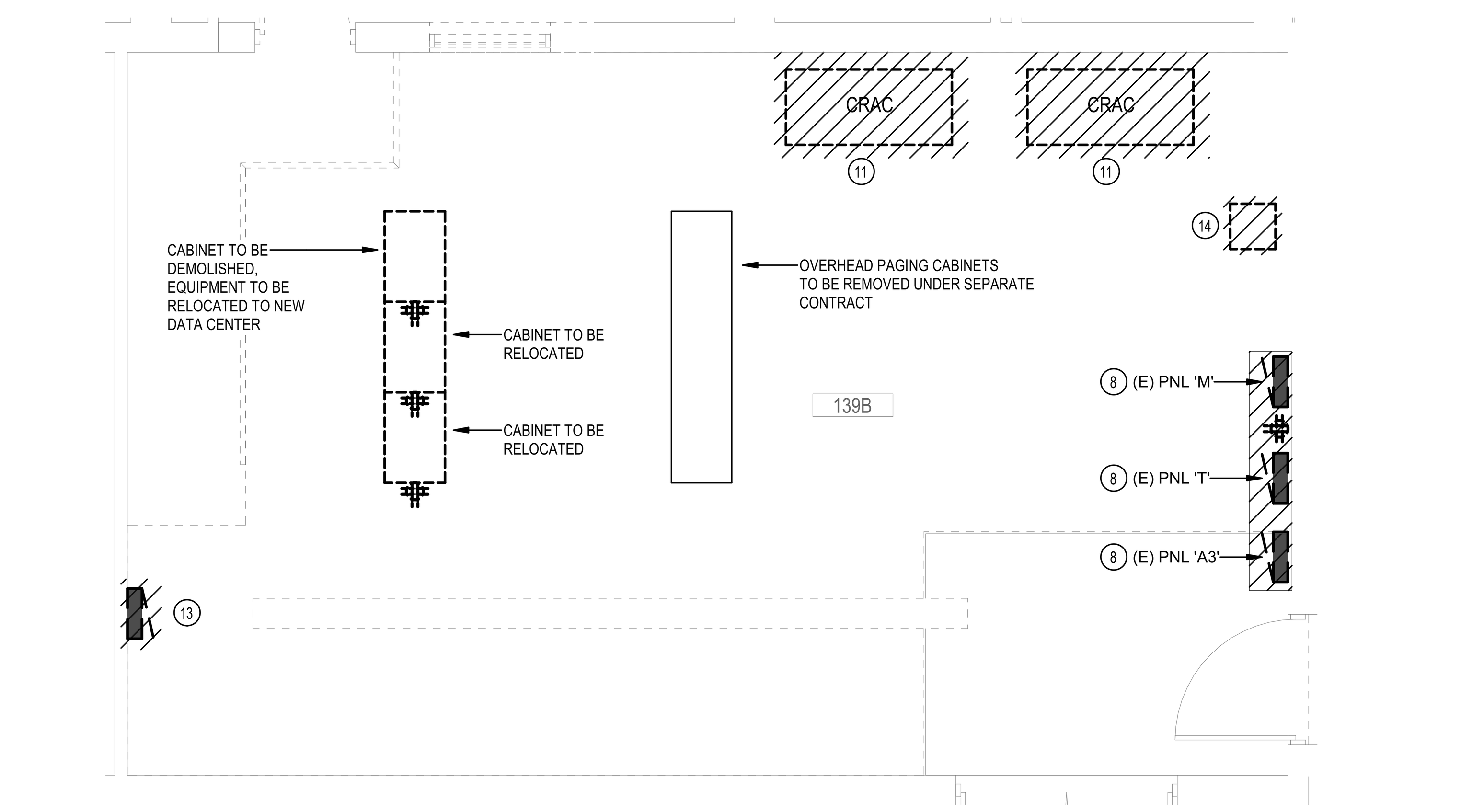
3 ENLARGED ROOM - 122B & TC1A ELECTRICAL DEMOLITION
1/2" = 1'-0"



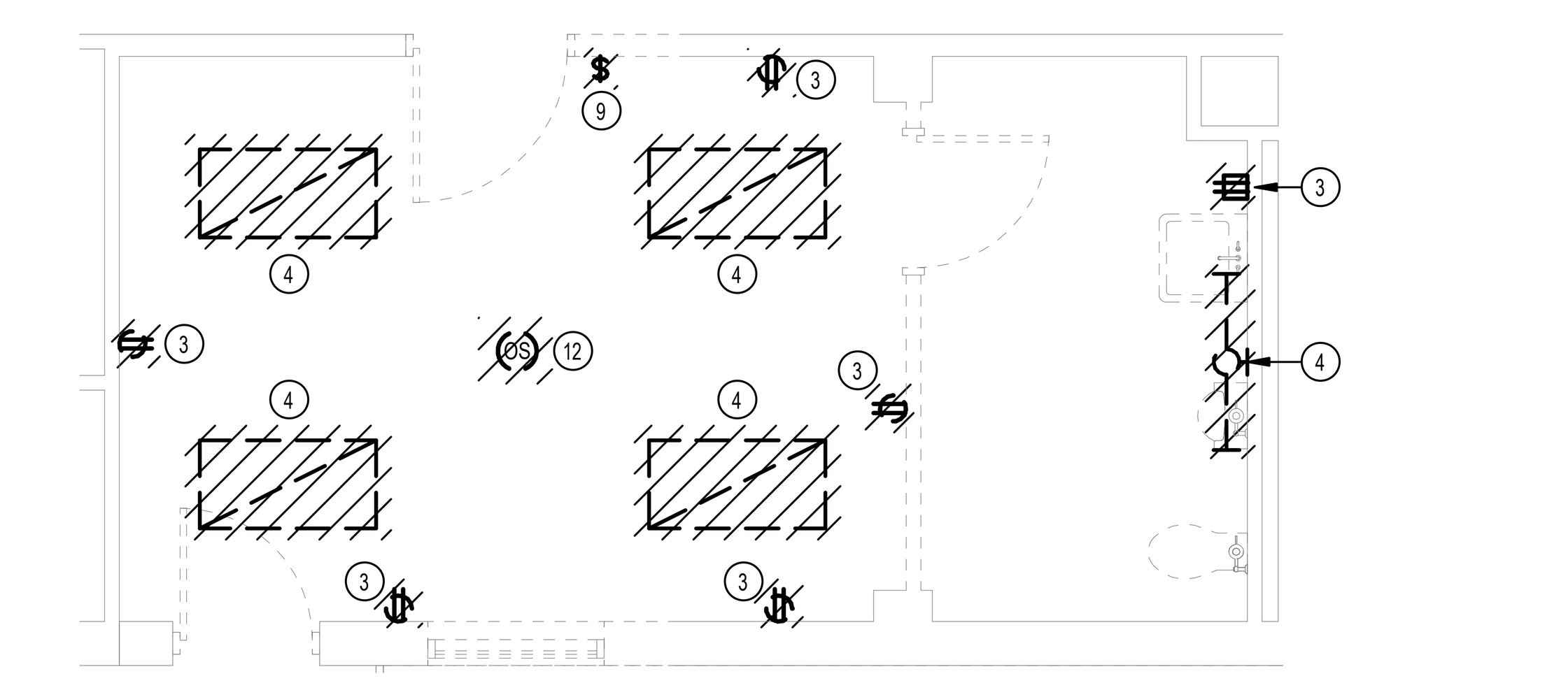
5 ENLARGED ROOM - 132 ELECTRICAL DEMOLITION
1/4" = 1'-0"



1 ENLARGED ROOM - EXISTING MCR ELECTRICAL DEMOLITION
1/4" = 1'-0"

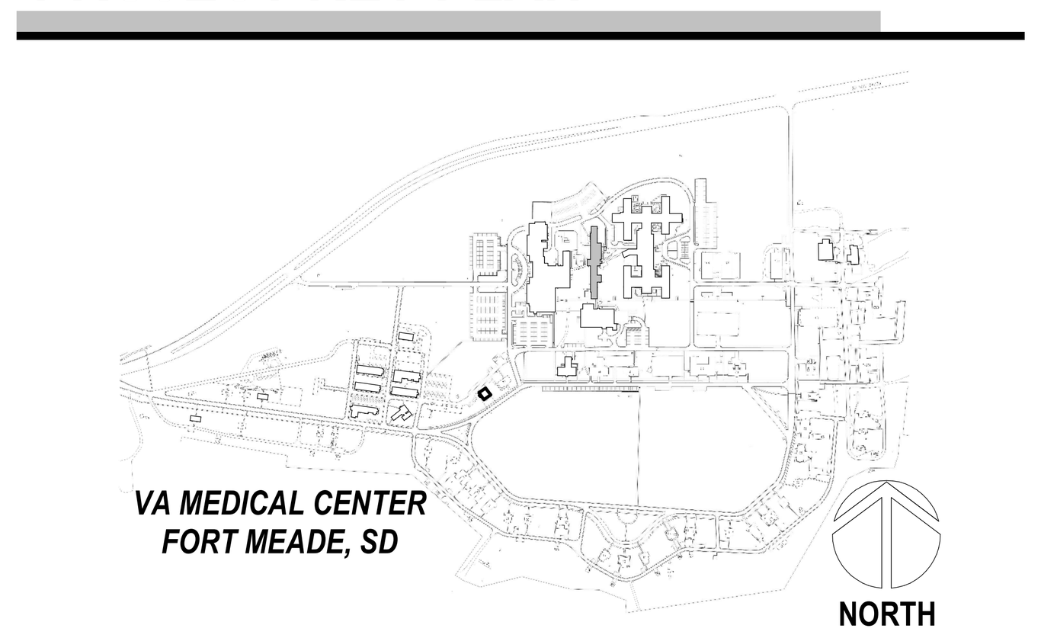


2 ENLARGED ROOM - PBX ELECTRICAL DEMOLITION
1/4" = 1'-0"



4 ENLARGED ROOM - 139A ELECTRICAL DEMOLITION
1/4" = 1'-0"

PROJECT KEY PLAN



Revisions:	Date:

CONSULTANT
ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
360.936.3076
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD
A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.426.4723
ADAM GODDIN, PE

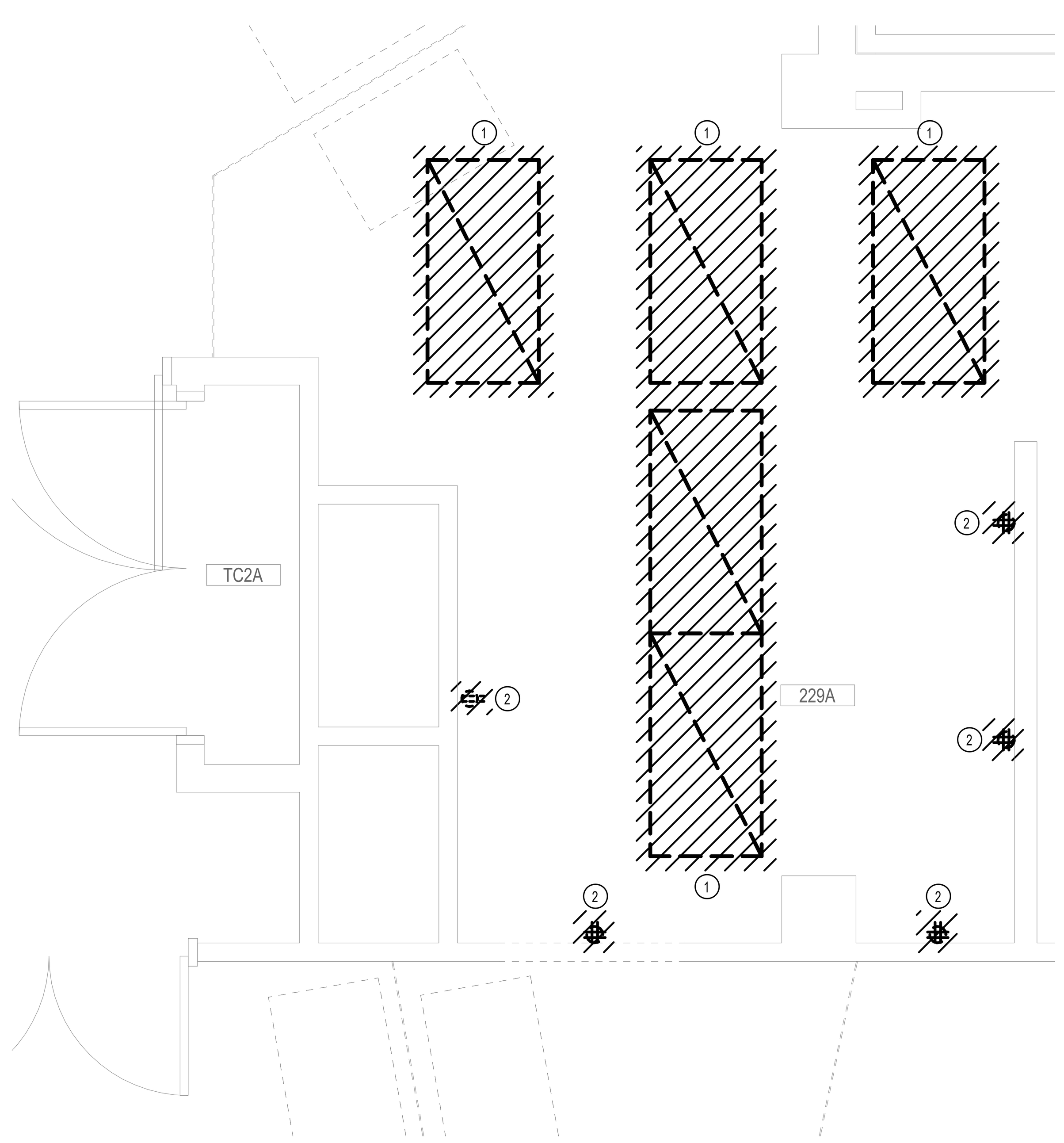
GDM ARCHITECTS • ENGINEERS

STAMP

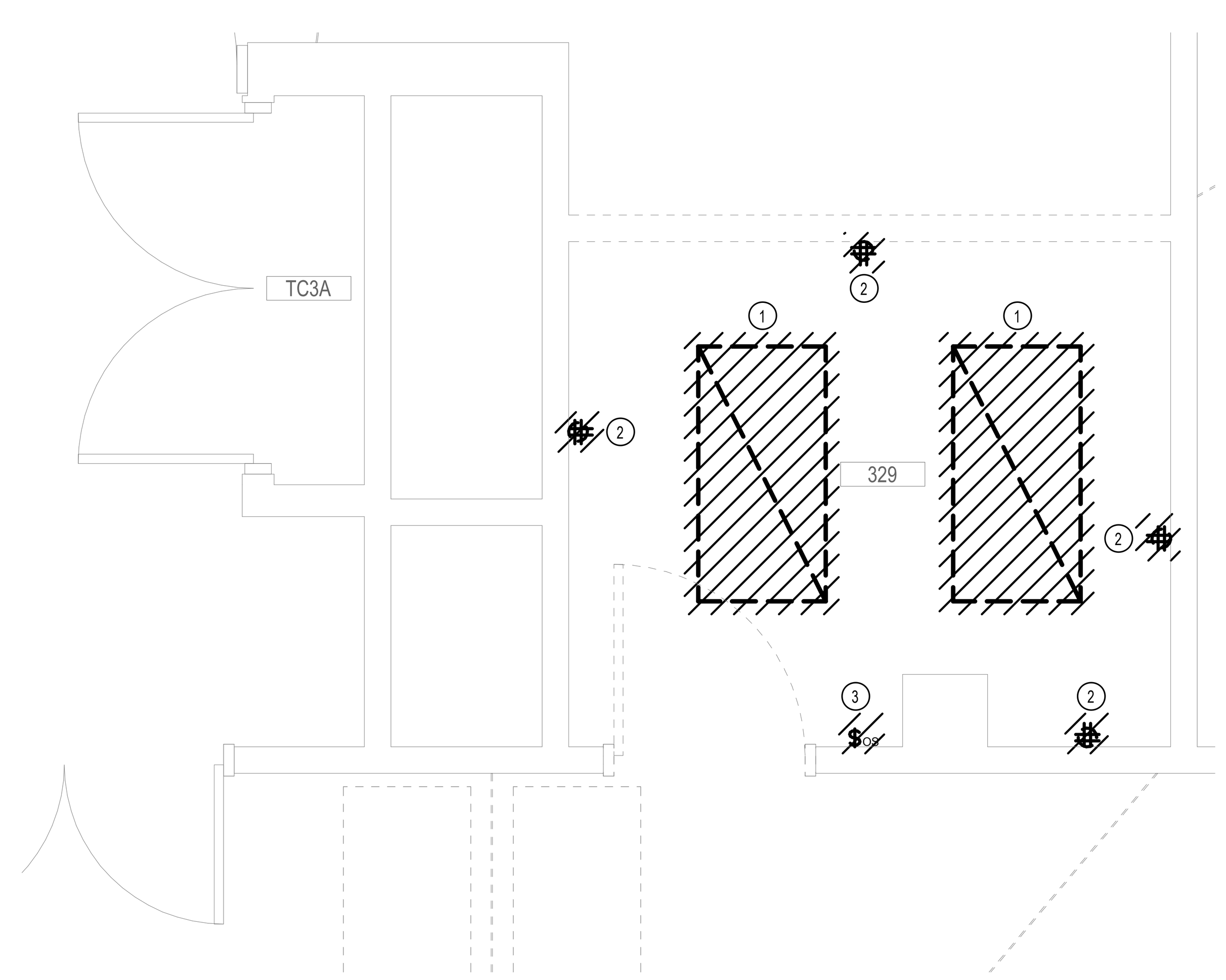
OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT
VA U.S. Department of Veterans Affairs

DRAWING TITLE	ELECTRICAL DEMOLITION PLAN - FIRST FLOOR ENLARGED ROOMS
APPROVED: Project Director	FOR OFFICIAL USE ONLY (FOUO)
PHASE	100% CONSTRUCTION DOCUMENTS
FLS	FULLY SPRINKLERED
PROJECT TITLE	EHRM INFRASTRUCTURE UPGRADES
LOCATION	FORT MEADE, SOUTH DAKOTA
ISSUE DATE	11/05/2024
CHECKED BY	MER
DRAWN BY	AJW
PROJECT NUMBER	568-21-701
BUILDING NUMBER	145
DRAWING NUMBER	145-ED-012

VA FORM 08 - 6231



3 ENLARGED ROOM - TC2A & 229A ELECTRICAL DEMOLITION
1/2" = 1'-0"



4 ENLARGED ROOM - TC3A & 329 ELECTRICAL DEMOLITION
1/2" = 1'-0"

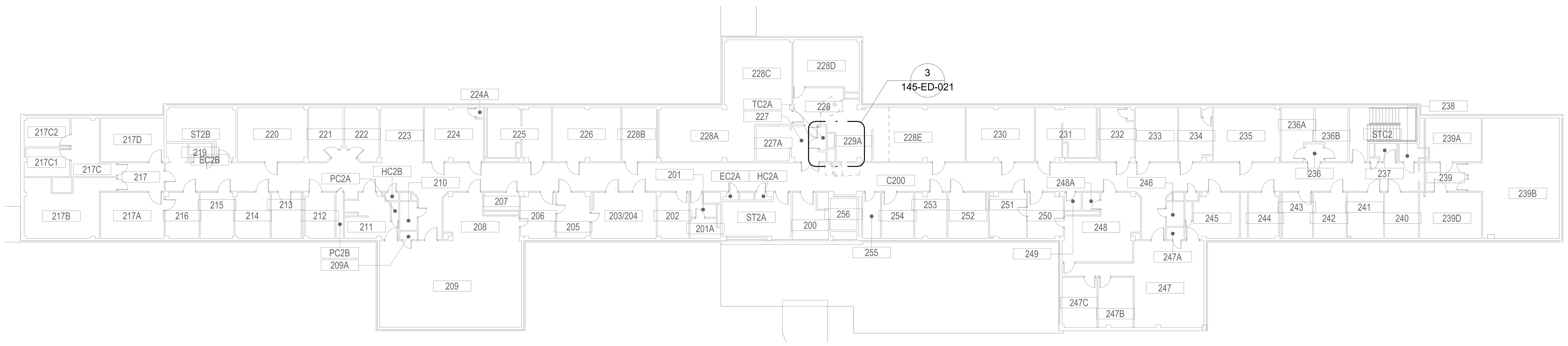
THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

GENERAL DEMOLITION NOTES

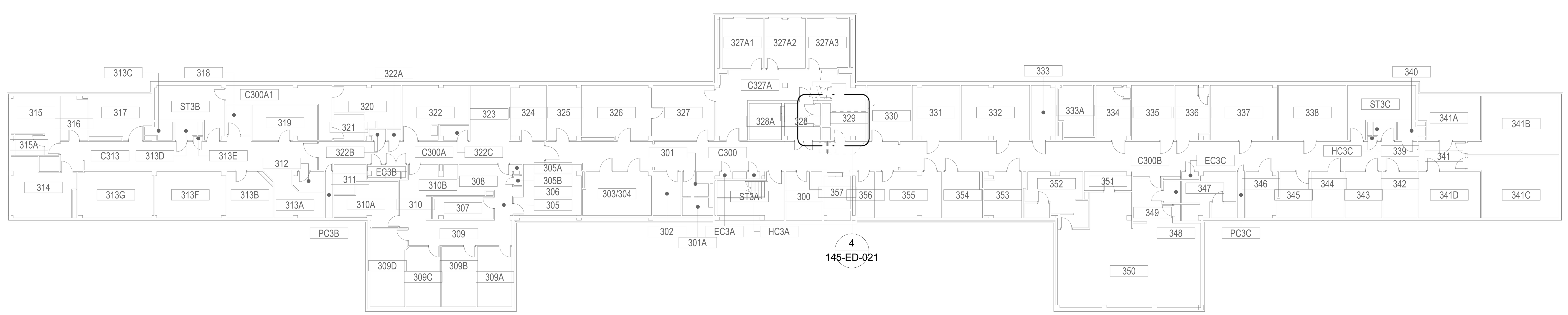
1. CONTRACTOR SHALL COORDINATE ALL OUTAGES WITH THE COR PRIOR TO BEGINNING WORK. GREAT CARE SHALL BE TAKEN TO MINIMIZE OUTAGE DURATION TO SHORTEST EXTENT POSSIBLE. NO DEMOLITION SHALL OCCUR ON THE UPS SYSTEM, LIFE SAFETY SYSTEM, TELECOMMUNICATIONS SYSTEM, OR ANY OTHER CRITICAL SYSTEM UNTIL THE NEW/REPLACEMENT SYSTEMS ARE IN PLACE AND READY FOR SWITCHOVER.
2. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM RECORD DRAWINGS AND/OR A NON-DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.
3. THE COR SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS. THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A WAREHOUSE AS DIRECTED BY THE COR. THE CONTRACTOR SHALL DISPOSE OF, OFF SITE, ALL UNWANTED MATERIALS.
4. DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
5. COORDINATE WITH THE OTHER DISCIPLINE DRAWINGS FOR AREAS OF DEMOLITION AND NEW WORK. PROVIDE MINOR RELOCATION OF LIGHT FIXTURES AND DEVICES TO ACCOMMODATE NEW MECHANICAL AND TELECOM EQUIPMENT LOCATIONS.
6. FOR WALL/CEILINGS SCHEDULED TO BE DEMOLISHED, DEMOLISH ALL CONDUIT, WIRE, DEVICES, BOXES, ETC. BACK TO THE EXTENT PRACTICAL TO ACCOMMODATE DEMOLITION. RELOCATE EXISTING LIGHT FIXTURES, DEVICES, CONDUIT, AND WIRE AS REQUIRED. PROVIDE EXTENSION OF CONDUIT AND WIRE AS REQUIRED TO ACCOMMODATE RELOCATED ITEMS.
7. FOR THE RENOVATED TELECOMMUNICATIONS ROOMS WITH NEW PAINTED PLYWOOD WALLS, CONTRACTOR SHALL DISCONNECT AND TEMPORARILY REMOVE ALL ELECTRICAL DEVICES, BOXES, CONDUIT, AND WIRE TO ALLOW FOR PLYWOOD INSTALLATION. REINSTALL ALL DEVICES BACK IN SAME LOCATIONS AND PROVIDE BOX EXTENSIONS, CIRCUIT EXTENSIONS, ETC. AS REQUIRED TO ACCOMMODATE RENOVATION.
8. COORDINATE WITH THE OTHER DISCIPLINE DRAWINGS FOR AREAS OF DEMOLITION AND NEW WORK.
9. LIGHTING AND RECEPTACLES SHALL REMAIN IN EXISTING TELECOM ROOMS. NO DEMOLITION UNLESS OTHERWISE NOTED

KEYNOTES

1 EXISTING LIGHT FIXTURES TO BE REMOVED. MAINTAIN CIRCUIT CONTINUITY FOR REMAINING LIGHT FIXTURES IN CIRCUIT.
2 EXISTING ELECTRICAL RECEPTACLES TO BE REMOVED. CONTRACTOR TO REMOVE EXISTING CONDUIT AND CONDUCTORS BACK TO SOURCE.
3 EXISTING LIGHT SWITCH TO BE REMOVED. REMOVE CONDUIT AND CONDUCTORS BACK TO SOURCE.

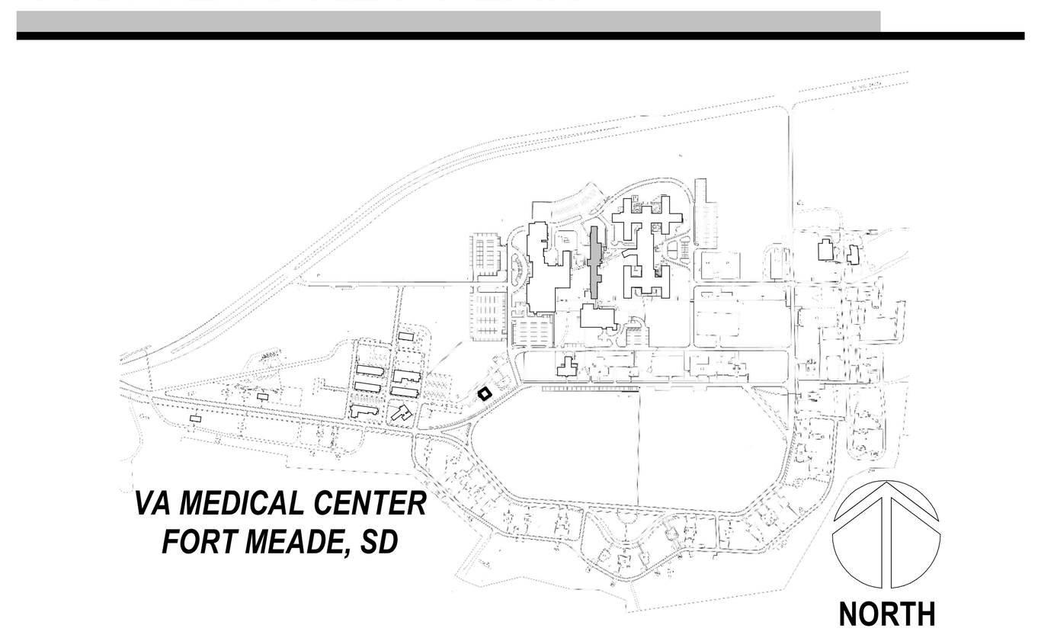


1 ELECTRICAL DEMOLITION PLAN - BLDG 145 - SECOND FLOOR
1/16" = 1'-0"



2 ELECTRICAL DEMOLITION PLAN - BLDG 145 THIRD FLOOR
1/16" = 1'-0"

PROJECT KEY PLAN



Revisions:	Date:

CONSULTANT
ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
360.936.3076
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD
A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.426.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE	ELECTRICAL DEMOLITION PLAN - SECOND & THIRD FLOORS
PHASE	100% CONSTRUCTION DOCUMENTS
APPROVED: Project Director	FOR OFFICIAL USE ONLY (FOUO)
FLS	FULLY SPRINKLERED
PROJECT TITLE	EHRM INFRASTRUCTURE UPGRADES
LOCATION	FORT MEADE, SOUTH DAKOTA
ISSUE DATE	11/05/2024
CHECKED BY	MER
DRAWN BY	AJW
PROJECT NUMBER	568-21-701
BUILDING NUMBER	145
DRAWING NUMBER	145-ED-021

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

GENERAL NOTES

1. COORDINATE EXACT LOCATION OF MECHANICAL AND TELECOMMUNICATIONS EQUIPMENT WITH THE CORRESPONDING DISCIPLINE'S DRAWINGS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMOPORARILY MOVING AND RETURNING FURNITURE, FIXTURES, AND EQUIPMENT WITHIN SPACES AS REQUIRED TO COMPLETE EACH DAYS WORK. THE VA WILL REMOVE OR SECURE PHI,, PPI, AND PERSONALY PROPERTY. COORDINATE THIS WORK WITH THE COR.
3. REFER TO ASSOCIATED TN SHEETS FOR RACK QUANTITES IN EXISTING AND NEW TR SPACES.
4. REFER TO ELECTRICAL FEEDER SCHEDULES ON SHEET 000-EG-001 FOR CONDUIT AND CONDUCTOR FEEDER REQUIREMENTS.
5. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON SHEET 145-EP-011 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
6. CONDUIT ROUTING SHOWN IS SCHEMATIC BY DESIGN. CONTRACTOR SHALL VERIFY FEASIBILITY PRIOR TO INSTALLATION.

KEYNOTES

1 INTENT IS TO RE-USE EXISTING TRANSFORMER PAD, EXISTING (4) 2" CONDUIT, AND EXISTING (2) 3" CONDUIT FOR NEW UPS CIRCUIT. EXTEND EXISTING TRANSFORMER PAD AS REQUIRED TO ALLOW FOR A MINIMUM OF 6" OF CLEARANCE FROM EDGE OF PAD TO TRANSFORMER.

2 CONTRACTOR TO PROVIDE CONDUIT AND CONDUCTORS FOR NEW OUTDOOR MECHANICAL UNIT. SEE ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.

3 CONTRACTOR TO PROVIDE WET-RATED CONVENIANCE RECEPTACLE. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION AND WEATHER PROTECTION.

4 CONTRACTOR TO PROVIDE NEW DISCONNECT WITH NEW FUSES FOR NEW MECHANICAL EQUIPMENT. SEE ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.

5 CONTRACTOR TO PROVIDE NEW 208Y/120V, 100A, PANELBOARD. CONTRACTOR TO PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION. REFER TO FEEDER SCHEDULE ON 000-EG-001 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

6 CONTRACTOR TO PROVIDE NEW 350KVA, 12470/208 STEP-DOWN TRANSFORMER. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION.

7 CONTRACTOR TO PROVIDE CONDUIT AND CONDUCTORS FOR NEW INDOOR MECHANICAL UNIT. SEE ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.

8 CONTRACTOR TO PROVIDE NEW LIGHT FIXTURE. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION. REFER TO LIGHT FIXTURE SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION AMD REQUIREMENTS.

9 CONTRACTOR TO PROVIDE NEW OCCUPANCY SENSOR SWITCH. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION.

10 CONTRACTOR SHALL PROVIDE LIGHTNING PROTECTION SYSTEM FOR BUILDING 145. ACTUAL SYSTEM LAYOUT SHALL BE DETERMINED BY THE CONTRACTOR IN ACCORDANCE WITH NFPA 780 REQUIREMENTS. CONTRACTOR SHALL FIELD VERIFY ALL EQUIPMENT, PIPING AND BUILDING LAYOUTS PRIOR TO INITIATION OF WORK.

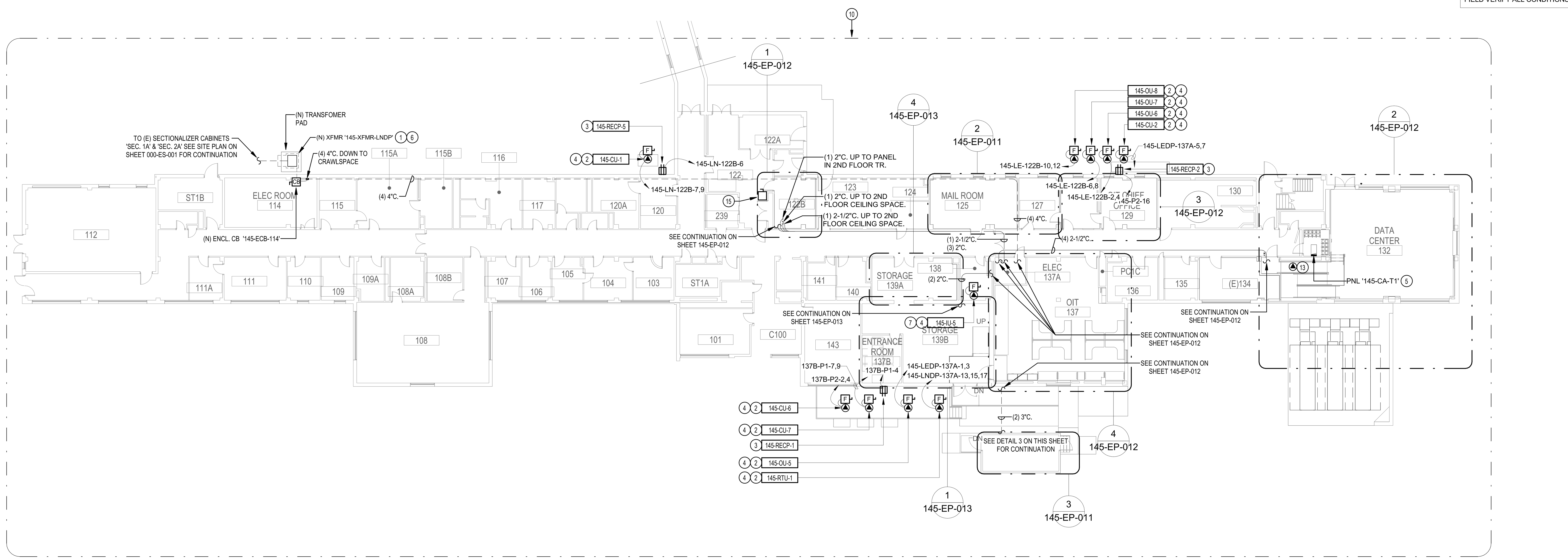
11 CONTRACTOR TO PROVIDE NEW 208Y/120V, 600A, AUTOMATIC TRANSFER SWITCH. CONTRACTOR TO PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION.

12 CONTRACTOR TO PROVIDE NEW 600A/3P BREAKER IN EXISTING SPACE. CONTRACTOR PROVIDE CONDUIT AND CONDUCTORS AS REQUIRED FOR COMPLETE OPERATION.

13 PROVIDE 120V CONNECTION TO NEW WALL-MOUNTED UNIT NETWORK CONTROLLER. COORDINATE EXACT LOCATION WITH MECHANICAL.

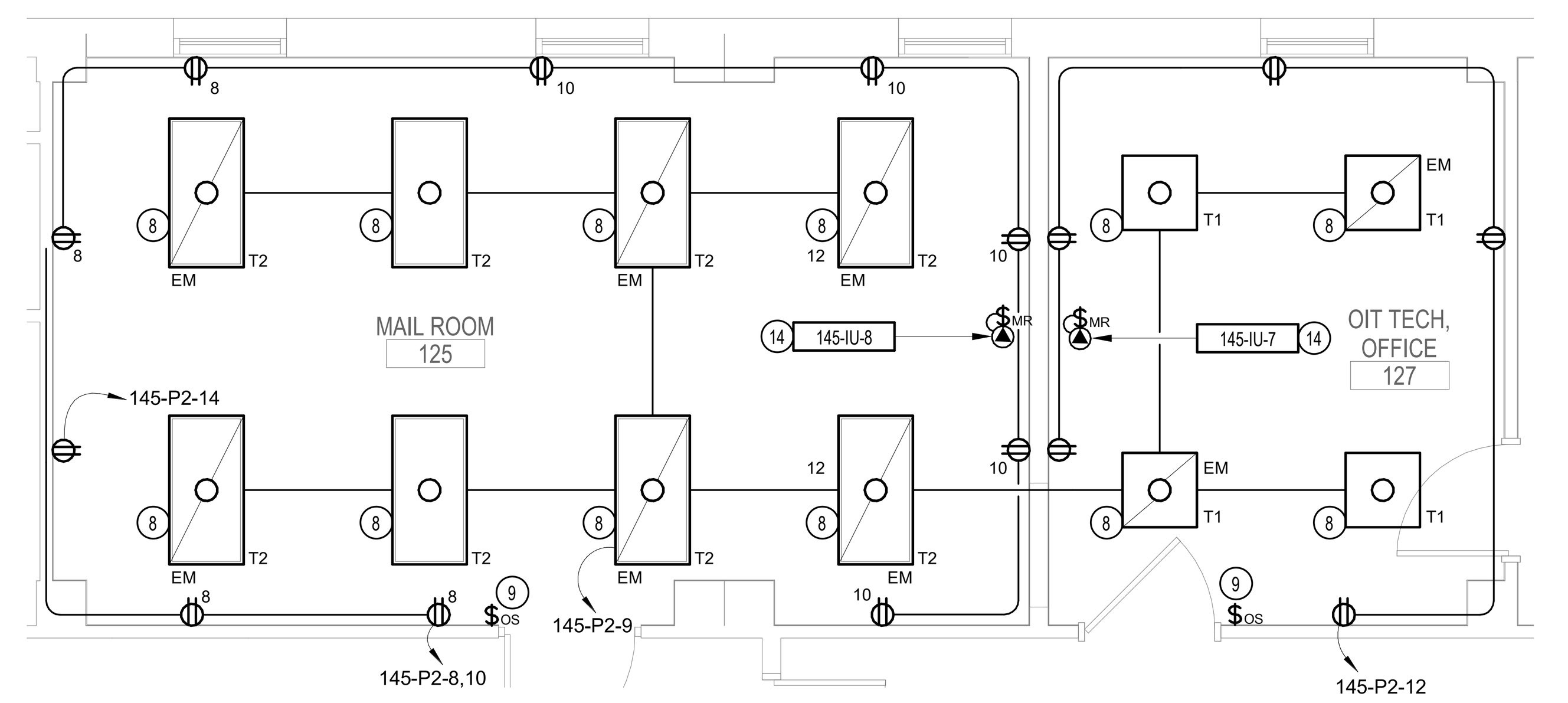
14 INDOOR MECHANICAL UNIT FED BY OUTDOOR MECHANICAL UNIT. PROVIDE NEW MOTOR-RATED SWITCH AND ALL CONDUIT AND CONDUCTORS FROM CONTROLS TO INDOOR UNIT AS REQUIRED FOR COMPLETE OPERATION.

15 NEW LOCATION OF EXISTING DISCONNECT FEEDING EXISTING COMPACTOR. EXTEND EXISTING CONDUIT AND CONDUCTORS TO DISCONNECT.



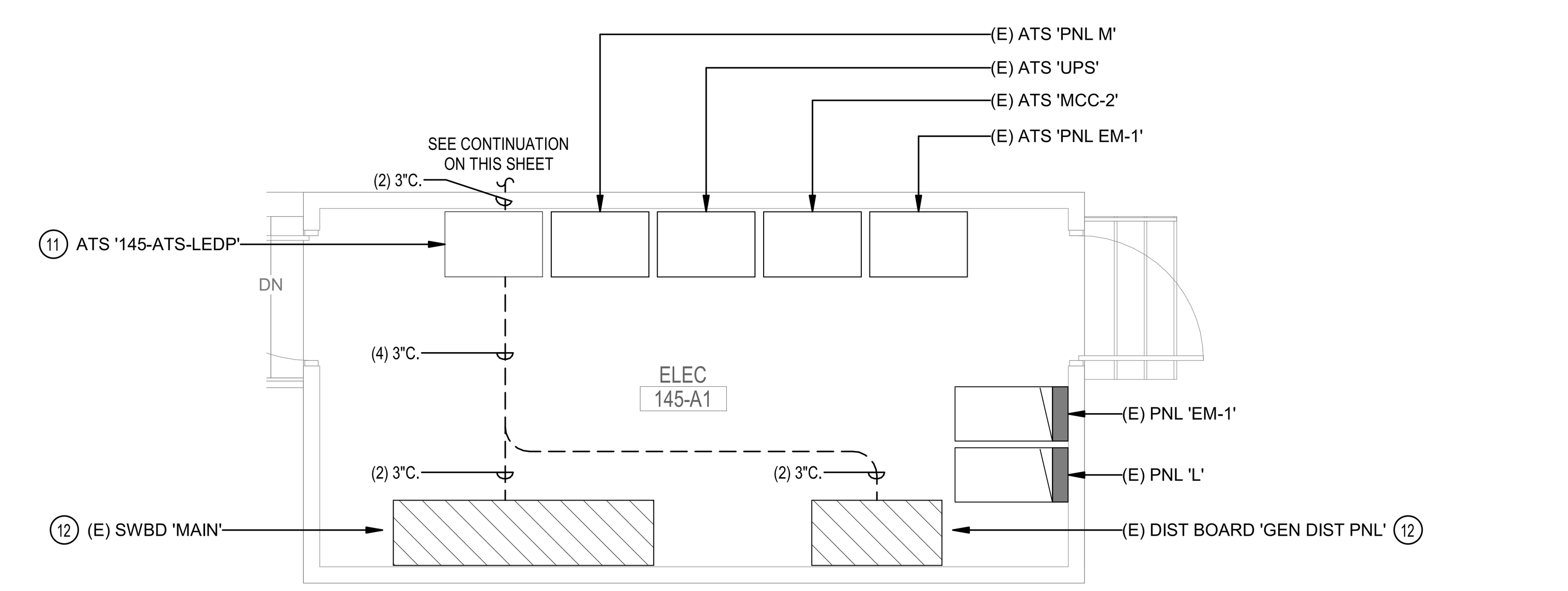
1 ELECTRICAL REMODEL PLAN - BLDG 145 FIRST FLOOR

1/16" = 1'-0"



2 ENLARGED ROOM - 125 & 126 ELECTRICAL REMODEL

1/4" = 1'-0"



3 ENLARGED BUILDING - BLDG 145 EXTERIOR MAIN ELECTRICAL REMODEL

1/4" = 1'-0"

BLDG 145 - EQUIPMENT SCHEDULE

EQUIPMENT TAG	RATED VOLTAGE	VOLTAGE PHASE	HP	KW	FLA	MCA	MOCP	# PARALLEL CONDUCTORS	BRANCH CIRCUIT RACEWAY	BRANCH CIRCUIT PHASE	BRANCH CIRCUIT N	BRANCH CIRCUIT G	DISCONNECT SIZE	DISCONNECT FUSE	NOTES
MECHANICAL EQUIPMENT															
145-IU-1	208	1	-	-	0.3	14.0	15	-	3/4"	2#12	-	#12	-	-	4
145-IU-2	208	1	-	-	-	14.0	15	-	3/4"	2#12	-	#12	-	-	4
145-IU-3	208	1	-	-	0.3	14.0	15	-	3/4"	2#12	-	#12	-	-	4
145-IU-4	208	1	-	-	0.3	14.0	15	-	3/4"	2#12	-	#12	-	-	4
145-IU-5	208	1	-	-	0.2	14.0	15	-	3/4"	2#12	-	#12	-	-	4
145-IU-6	208	1	-	-	-	14.0	15	-	3/4"	2#12	-	#12	-	-	4
145-IU-7	208	1	-	-	-	14.0	15	-	3/4"	2#12	-	#12	-	-	4
145-OU-1	208	1	-	-	-	24.0	35	-	3/4"	2#8	-	#10	60	35	1
145-OU-2	208	1	-	-	-	17.0	25	-	3/4"	2#10	-	#10	30	25	1
145-OU-3	208	1	-	-	-	24.0	35	-	3/4"	2#8	-	#10	60	35	1
145-OU-4	208	1	-	-	-	24.0	35	-	3/4"	2#8	-	#10	60	35	1
145-OU-5	208	1	-	-	-	11.0	15	-	3/4"	2#12	-	#12	30	15	1
145-OU-6	208	1	-	-	-	17.0	25	-	3/4"	2#10	-	#10	30	25	1
145-OU-7	208	1	-	-	-	17.0	25	-	3/4"	2#10	-	#10	30	25	1
145-OU-8	208	1	-	-	-	17.0	25	-	3/4"	2#10	-	#10	30	25	1
145-CU-1	208	3	-	-	22.8	28.5	30	-	3/4"	3#10	-	#10	30	30	1
145-CU-2	208	3	-	-	22.8	28.5	30	-	3/4"	3#10	-	#10	30	30	1
145-CU-3	208	3	-	-	11.2	14.0	15	-	3/4"	3#12	-	#12	30	15	1
145-CU-6	208	1	-	-	-	24.0	35	-	3/4"	2#8	-	#10	60	35	1
145-CU-7	208	1	-	-	-	24.0	35	-	3/4"	2#8	-	#10	60	35	1
145-PB-1	208	3	-	-	5.2	6.5	15	-	3/4"	3#12	-	#12	30	15	1
145-PB-2	208	3	-	-	5.2	6.5	15	-	3/4"	3#12	-	#12	30	15	1
145-PB-3	208	3	-	-	2.6	3.3	15	-	3/4"	3#12	-	#12	30	15	1
145-RTU-1	208	3	-	-	154.0	192.5	200	-	2"	3#3/0	-	#6	200	200	1
145-CRAC-1	208	3	-	-	119.0	148.8	150	-	1-1/2"	3#1/0	-	#6	200	150	1
145-CRAC-2	208	3	-	-	119.0	148.8	150	-	1-1/2"	3#1/0	-	#6	200	150	1
145-CRAC-3	208	3	-	-	60.0	75.0	75	-	1-1/4"	3#2	-	#8	100	80	1
TELECOMMUNICATIONS EQUIPMENT															
RK-122B-1A	208	3	-	10.00	-	-	30	-	3/4"	3#10	1#10	#10	-	-	3
RK-122B-1B	208	3	-	10.00	-	-	30	-	3/4"	3#10	1#10	#10	-	-	3
ZP-137B-1A	208	3	-	15.00	-	-	60	-	1"	3#4	1#4	#10	60	60	1
ZP-137B-1B	208	3	-	15.00	-	-	60	-	1"	3#4	1#4	#10	60	60	1
RK-229A-1A	208	3	-	10.00	-	-	30	-	3/4"	3#10	1#10	#10	-	-	3
RK-229A-1B	208	3	-	10.00	-	-	30	-	3/4"	3#10	1#10	#10	-	-	3
RK-329-1A	208	3	-	10.00	-	-	30	-	3/4"	3#10	1#10	#10	-	-	3
RK-329-1B	208	3	-	10.00	-	-	30	-	3/4"	3#10	1#10	#10	-	-	3

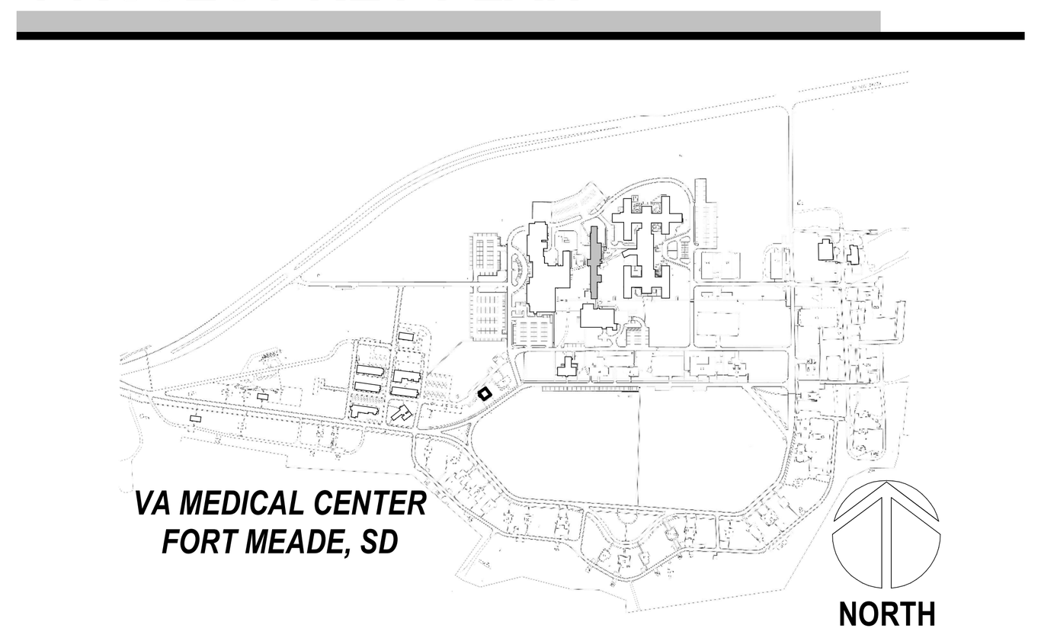
NOTES
1. PROVIDE NEW DISCONNECT.
2. PROVIDE NEMA L21-20R INTERLOCKING RECEPTACLE.
3. PROVIDE NEMA L21-30R INTERLOCKING RECEPTACLE.
4. PROVIDE NEW MOTOR-RATED SWITCH.

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	MODEL #	LAMP TYPE	CRI	DELIVERED LUMENS	COLOR TEMP	INPUT WATTS	FINISH
S1	LED STRIP LIGHT FIXTURE, LENSED, WHITE HOUSING, PROVIDE WITH E10WLCP EM DRIVER WHERE NOTED AS EMERGENCY ON PLANS.	LITHONIA	#ZL1N-L48-7000LM-FST-MVOLT-40K-80CRI-WH (E10WLCP)	LED	80	6,785	4000K	52	WHITE
T1	2' X 2' LED TROFFER. RIBBED REFLECTOR, CURVED RIBBED DIFFUSER. PROVIDE WITH EMERGENCY BATTERY PACK OPTION #E10WLCP WHERE SHOWN AS EMERGENCY ON PLANS.	LITHONIA	#2BLT2-48L-ADP-EZ1-LP840 (E10WLCP)	LED	82	5,159	4000K	42.9	WHITE
T2	2' X 4' LED TROFFER. RIBBED REFLECTOR, CURVED RIBBED DIFFUSER. PROVIDE WITH EMERGENCY BATTERY PACK OPTION #E10WLCP WHERE SHOWN AS EMERGENCY ON PLANS.	LITHONIA	#2BLT4-48L-ADP-EZ1-LP840 (E10WLCP)	LED	82	5,169	4000K	39.3	WHITE

NOTES:

PROJECT KEY PLAN



VA MEDICAL CENTER
FORT MEADE, SD

NORTH

Revisions: | Date:

CONSULTANT

ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
360.936.3076
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD

A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.426.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: ELECTRICAL REMODEL PLAN - FIRST FLOOR

APPROVED: Project Director

FOR OFFICIAL USE ONLY (FOUO)

PHASE: 100% CONSTRUCTION DOCUMENTS

FLS: FULLY SPRINKLERED

PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES

LOCATION: FORT MEADE, SOUTH DAKOTA

ISSUE DATE: 11/05/2024 | CHECKED BY: MER | DRAWN BY: AJW

PROJECT NUMBER: 568-21-701

BUILDING NUMBER: 145

DRAWING NUMBER: 145-EP-011

VA FORM 08 - 6231

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	MODEL #	LAMP TYPE	CRI	DELIVERED LUMENS	COLOR TEMP	INPUT WATTS	FINISH
S1	LED STRIP LIGHT FIXTURE, LENSED, WHITE HOUSING, PROVIDE WITH E10WLCP EM DRIVER WHERE SHOWN AS EMERGENCY ON PLANS.	LITHONIA	#ZL1N-L48-7000LM-FST-MVOLT-40K-80CRI-WH (E10WLCP)	LED	80	6,785	4000K	52	WHITE
S2	LED STRIP LIGHT FIXTURE, LENSED, WHITE HOUSING, PROVIDE WITH E10WLCP EM DRIVER WHERE SHOWN AS EMERGENCY ON PLANS.	LITHONIA	#CLX-L96-14000LM-HEF-FDL-MVOLT-GZ1-LUGR-40K-80CRI-WH (E10WLCP)	LED	80	14,125	4000K	88	WHITE
T1	2' X 2' LED TROFFER. RIBBED REFLECTOR, CURVED RIBBED DIFFUSER. PROVIDE WITH EMERGENCY BATTERY PACK OPTION #E10WLCP WHERE SHOWN AS EMERGENCY ON PLANS.	LITHONIA	#2BLT2-48L-ADP-EZ1-LP840 (E10WLCP)	LED	82	5,159	4000K	42.9	WHITE
T2	2' X 4' LED TROFFER. RIBBED REFLECTOR, CURVED RIBBED DIFFUSER. PROVIDE WITH EMERGENCY BATTERY PACK OPTION #E10WLCP WHERE SHOWN AS EMERGENCY ON PLANS.	LITHONIA	#2BLT4-48L-ADP-EZ1-LP840 (E10WLCP)	LED	82	5,169	4000K	39.3	WHITE
X	8" TALL LED EXIT SIGN W/ IMPACT-RESISTANT, SCRATCH-RESISTANT, AND CORROSION-PROOF WHITE THERMOPLASTIC HOUSING, RED LETTERS.	LITHONIA	#LHQM-LED-R-HORO	LED	-	-	-	4	WHITE

NOTES:

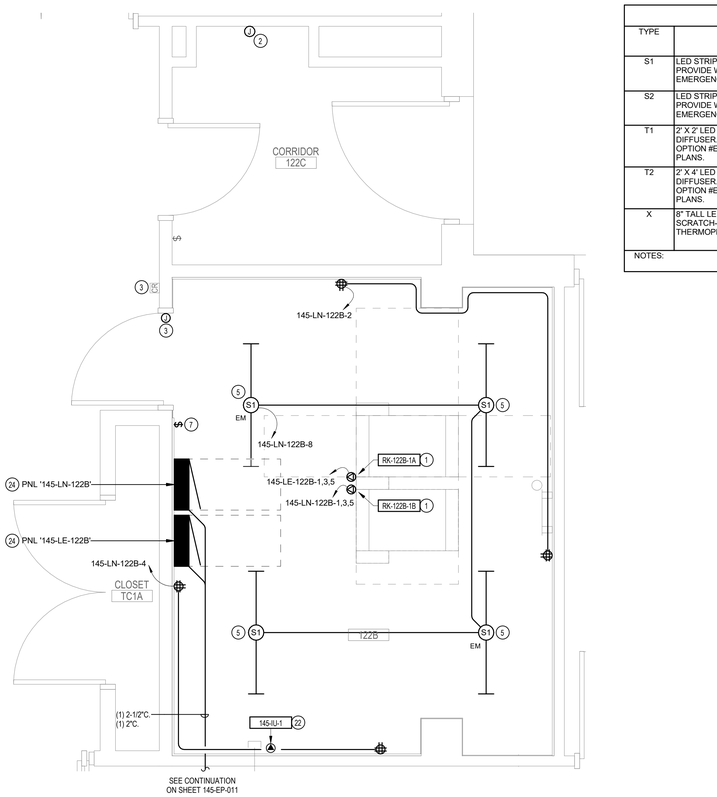
GENERAL NOTES

1. COORDINATE EXACT LOCATION OF MECHANICAL AND TELECOMMUNICATIONS EQUIPMENT WITH THE CORRESPONDING DISCIPLINE'S DRAWINGS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMOPORARILY MOVING AND RETURNING FURNITURE, FIXTURES, AND EQUIPMENT WITHIN SPACES AS REQUIRED TO COMPLETE EACH DAYS WORK. THE VA WILL REMOVE OR SECURE PHI, , PPI, AND PERSONALY PROPERTY. COORDINATE THIS WORK WITH THE COR.
3. REFER TO ASSOCIATED TN SHEETS FOR RACK QUANTITES IN EXISTING AND NEW TR SPACES.
4. REFER TO ELECTRICAL FEEDER SCHEDULES ON SHEET 000-EG-001 FOR CONDUIT AND CONDUCTOR FEEDER REQUIREMENTS.
5. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON SHEET 145-EP-011 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
6. CONDUIT ROUTING SHOWN IS SCHEMATIC BY DESIGN. CONTRACTOR SHALL VERIFY FEASIBILITY PRIOR TO INSTALLATION.

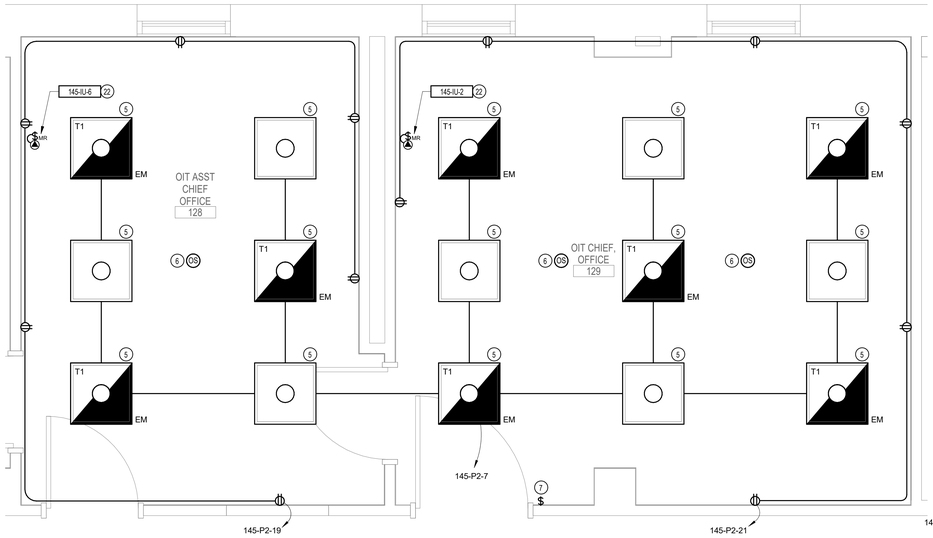
THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

KEYNOTES

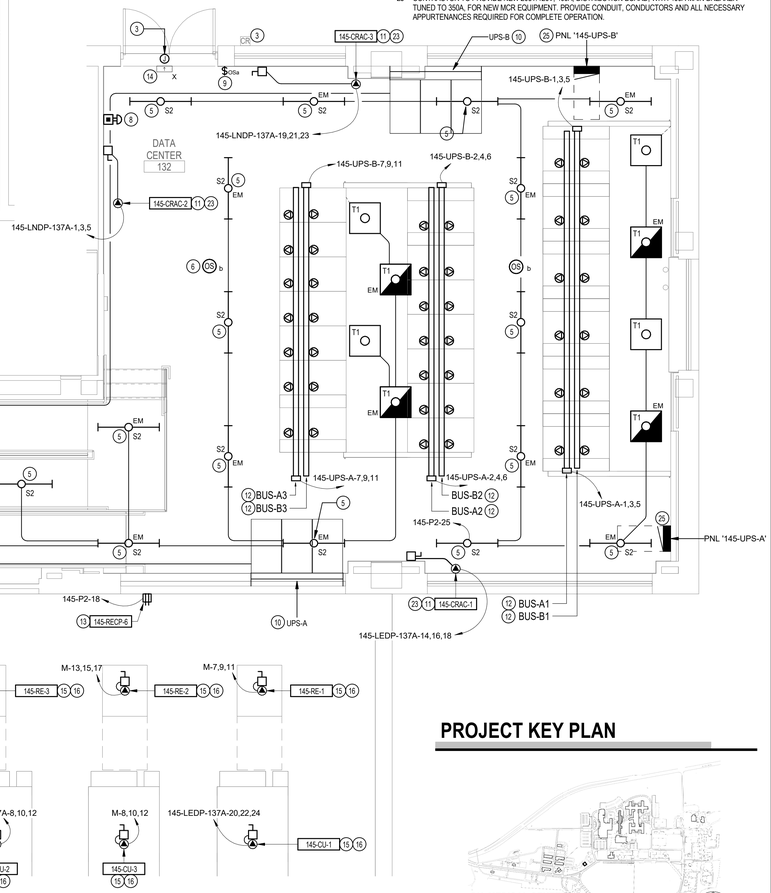
1 CONTRACTOR TO PROVIDE NEW L21-30R RECEPTACLE FOR NEW RACK POWER. RECEPTACLE TO BE MOUNTED DIRECTLY ON CABLE TRAY.
2 NEW LOCATION OF RELOCATED JUNCTION BOX EXTEND EXISTING CONDUITS AND CONDUCTORS TO NEW LOCATION AS SHOWN.
3 CONTRACTOR TO PROVIDE RACEWAY AND BOXES FOR ACCESS CONTROLS SYSTEM COMPONENTS.
4 CONTRACTOR TO PROVIDE NEW POWER POLES TO FEED NEW CUBICLES.
5 CONTRACTOR TO PROVIDE NEW LIGHT FIXTURE. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION. REFER TO LIGHT FIXTURE SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION AMD REQUIREMENTS.
6 CONTRACTOR TO PROVIDE NEW OCCUPANCY SENSOR. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION.
7 CONTRACTOR TO PROVIDE NEW LIGHT SWITCH. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION.
8 CONTRACTOR TO PROVIDE NEW EPO SWITCH IN MCR.
9 CONTRACTOR TO PROVIDE NEW OCCUPANCY SENSOR SWITCH. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION.
10 CONTRACTOR TO PROVIDE NEW 100KVA MODULAR UPS SYSTEM TO FEED NEW MCR EQUIPMENT. PROVIDE ALL CONDUIT, CONDUCTORS, AND NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION.
11 CONTRACTOR TO PROVIDE CONDUIT AND CONDUCTORS FOR NEW INDOOR MECHANICAL UNIT. SEE ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE ON SHEET 145-EP-011 FOR ADDITIONAL INFORMATION.
12 CONTRACTOR TO PROVIDE NEW POWERED BUSWAY WITH INTEGRATED CURRENT MONITOR AND L21-20R RECEPTACLES. QUANTITIES AS INDICATED ON THESE PLANS. REFER TO BUSWAY DETAIL ON SHEET 145-EP-100 FOR ADDITIONAL INFORMATION.
13 CONTRACTOR TO PROVIDE WET-RATED CONVENIANCE RECEPTACLE MOUNTED BELOW DISCONNECT. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION AND WEATHER PROTECTION.
14 CONTRACTOR TO PROVIDE NEW EXIT SIGN. PROVIDE CONDUIT, CONDUCTOR, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION. REFER TO LIGHT FIXTURE SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
15 CONTRACTOR TO PROVIDE CONDUIT AND CONDUCTORS FOR NEW OUTDOOR MECHANICAL UNIT. SEE ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE ON SHEET 145-EP-011 FOR ADDITIONAL INFORMATION.
16 CONTRACTOR TO PROVIDE NEW DISCONNECT WITH NEW FUSES FOR NEW MECHANICAL EQUIPMENT. SEE ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE ON SHEET 145-EP-011 FOR ADDITIONAL INFORMATION.
17 CONTRACTOR TO PROVIDE NEW 208Y/120V, 1200A, 3-PHASE DISTRIBUTION PANEL WITH NEW 1200A/3P MAIN BREAKER. CONTRACTOR TO PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION.
18 CONTRACTOR TO PROVIDE NEW 208Y/120V, 200A, PANELBOARD. CONTRACTOR TO PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION. SEE ONE-LINE DIAGRAM ON SHEET 113-EJ-001 FOR PANEL INFORMATION.
19 CONTRACTOR TO PROVIDE NEW 208Y/120V, 600A, DISTRIBUTION PANEL WITH NEW 600A/3P MAIN BREAKER. CONTRACTOR TO PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION.
20 CONTRACTOR TO PROVIDE NEW 208Y/120V, 350A ENCLOSED SHUNT-TRIP CIRCUIT BREAKER. PROVIDE CONDUIT, CONDUCTORS, AND ALL APPURTENANCES REQUIRED FOR COMPLETE OPERATION.
21 CONTRACTOR TO PROVIDE NEW 208Y/120V, 400A, PANEL WITH NEW 400A/3P MAIN BREAKER. PROVIDE CONDUIT, CONDUCTORS, AND ALL APPURTENANCES REQUIRED FOR COMPLETE OPERATION.
22 INDOOR MECHANICAL UNIT FED BY OUTDOOR MECHANICAL UNIT. PROVIDE NEW MOTOR-RATED SWITCH AND ALL CONDUIT AND CONDUCTORS FROM CONTROLS TO INDOOR UNIT AS REQUIRED FOR COMPLETE OPERATION.
23 CONTRACTOR TO PROVIDE NEW DISCONNECT WITH NEW FUSES FOR NEW MECHANICAL EQUIPMENT. SEE ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.
24 CONTRACTOR TO PROVIDE NEW 208Y/120V, 100A, PANELBOARD. CONTRACTOR TO PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION. REFER TO FEEDER SCHEDULE ON 000-EG-001 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
25 CONTRACTOR TO PROVIDE NEW 208Y/120V, 400A, DISTRIBUTION BOARD, WITH 400A MAIN BREAKER TUNED TO 350A, FOR NEW MCR EQUIPMENT. PROVIDE CONDUIT, CONDUCTORS AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION.



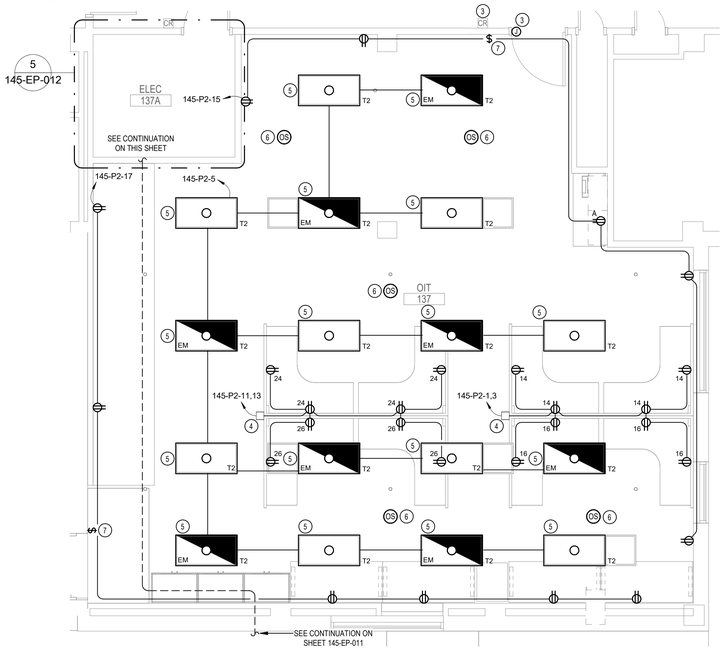
1 ENLARGED ROOM - 122B & TC1A ELECTRICAL REMODEL
1/2" = 1'-0"



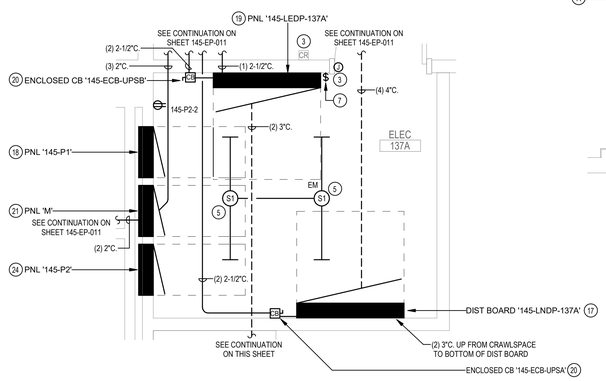
3 ENLARGED ROOM - 129 ELECTRICAL REMODEL
1/2" = 1'-0"



2 ENLARGED ROOM - NEW MCR ELECTRICAL REMODEL
1/4" = 1'-0"

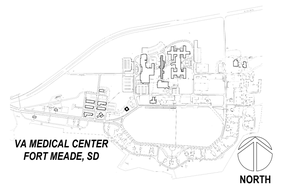


4 ENLARGED ROOM - OIT ELECTRICAL REMODEL
1/4" = 1'-0"



5 ENLARGED ROOM - 137A ELECTRICAL REMODEL
1/2" = 1'-0"

PROJECT KEY PLAN



VA MEDICAL CENTER
FORT MEADE, SD

NORTH

Revisions:	Date:

CONSULTANT
ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
360.936.3076
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD
A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.426.4723
ADAM GODDIN, PE

GDM ARCHITECTS - ENGINEERS

STAMP

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: ELECTRICAL REMODEL PLAN - FIRST FLOOR ENLARGED PLANS
PHASE: 100% CONSTRUCTION DOCUMENTS
PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES
PROJECT NUMBER: 568-21-701
BUILDING NUMBER: 145
APPROVED: Project Director: FOR OFFICIAL USE ONLY (FOUO)
FLS: FULLY SPRINKLERED
LOCATION: FORT MEADE, SOUTH DAKOTA
ISSUE DATE: 11/05/2024
CHECKED BY: MER
DRAWN BY: AJW
DRAWING NUMBER: 145-EP-012

VA FORM 08 - 6231

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	MODEL #	LAMP TYPE	CRI	DELIVERED LUMENS	COLOR TEMP	INPUT WATTS	FINISH
S1	LED STRIP LIGHT FIXTURE, LENSED, WHITE HOUSING, PROVIDE WITH E10WLCP EM DRIVER WHERE NOTED AS EMERGENCY ON PLANS.	LITHONIA	#ZL1N-L48-7000LM-FST-MVOLT-40K-80CRI-WH (E10WLCP)	LED	80	6,785	4000K	52	WHITE
T1	2' X 2' LED TROFFER. RIBBED REFLECTOR, CURVED RIBBED DIFFUSER. PROVIDE WITH EMERGENCY BATTERY PACK OPTION #E10WLCP WHERE SHOWN AS EMERGENCY ON PLANS.	LITHONIA	#2BLT2-48L-ADP-EZ1-LP840 (E10WLCP)	LED	82	5,159	4000K	42.9	WHITE
T2	2' X 4' LED TROFFER. RIBBED REFLECTOR, CURVED RIBBED DIFFUSER. PROVIDE WITH EMERGENCY BATTERY PACK OPTION #E10WLCP WHERE SHOWN AS EMERGENCY ON PLANS.	LITHONIA	#2BLT4-48L-ADP-EZ1-LP840 (E10WLCP)	LED	82	5,169	4000K	39.3	WHITE
NOTES:									

GENERAL NOTES

1. COORDINATE EXACT LOCATION OF MECHANICAL AND TELECOMMUNICATIONS EQUIPMENT WITH THE CORRESPONDING DISCIPLINE'S DRAWINGS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMOPORARILY MOVING AND RETURNING FURNITURE, FIXTURES, AND EQUIPMENT WITHIN SPACES AS REQUIRED TO COMPLETE EACH DAYS WORK. THE VA WILL REMOVE OR SECURE PHI, , PPI, AND PERSONALY PROPERTY. COORDINATE THIS WORK WITH THE COR.
3. REFER TO ASSOCIATED TN SHEETS FOR RACK QUANTITES IN EXISTING AND NEW TR SPACES.
4. REFER TO ELECTRICAL FEEDER SCHEDULES ON SHEET 000-EG-001 FOR CONDUIT AND CONDUCTOR FEEDER REQUIREMENTS.
5. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON SHEET 145-EP-011 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
6. CONDUIT ROUTING SHOWN IS SCHEMATIC BY DESIGN. CONTRACTOR SHALL VERIFY FEASIBILITY PRIOR TO INSTALLATION.

KEYNOTES

1 CONTRACTOR TO PROVIDE NEW LIGHT FIXTURE. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION. REFER TO LIGHT FIXTURE SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION AMD REQUIREMENTS.

2 CONTRACTOR TO PROVIDE NEW 208V, 60A, 3-PHASE POWER TERMINATING IN HARD-WIRED JUNCTION BOX FOR NEW RACK POWER. JUNCTION BOX TO BE MOUNTED DIRECTLY ON CABLE TRAY.

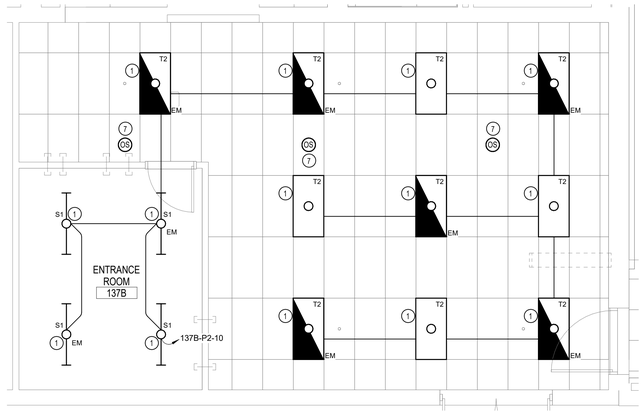
3 CONTRACTOR TO PROVIDE CONDUIT AND CONDUCTORS FOR NEW INDOOR MECHANICAL UNIT. SEE ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE ON SHEET 145-EP-011 FOR ADDITIONAL INFORMATION.

4 CONTRACTOR TO PROVIDE RACEWAY AND BOXES FOR ACCESS CONTROLS SYSTEM COMPONENTS.

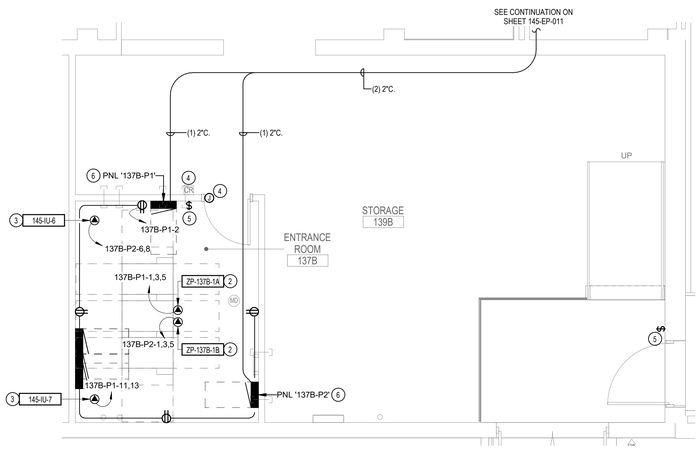
5 CONTRACTOR TO PROVIDE NEW LIGHT SWITCH. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION.

6 CONTRACTOR TO PROVIDE NEW 208Y/120V, 125A, PANEL WITH NEW 125A/3P MAIN BREAKER. PROVIDE CONDUIT, CONDUCTORS, AND ALL APPURTENANCES REQUIRED FOR COMPLETE OPERATION.

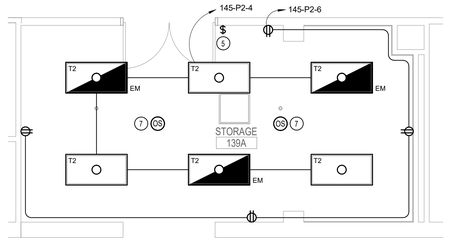
7 CONTRACTOR TO PROVIDE NEW OCCUPANCY SENSOR. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION.



3 ENLARGED ROOM - 139B REFLECTED CEILING PLAN
1/4" = 1'-0"

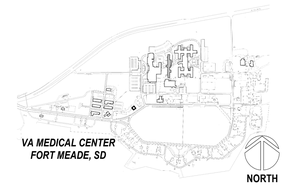


1 ENLARGED ROOM - 137B ELECTRICAL REMODEL
1/4" = 1'-0"



4 ENLARGED ROOM - 139A ELECTRICAL REMODEL
1/4" = 1'-0"

PROJECT KEY PLAN



VA MEDICAL CENTER
FORT MEADE, SD

NORTH

Revisions:	Date:

CONSULTANT
ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
360.936.3076
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD
A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.426.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

EDWARD GODDIN — STATE OF WASHINGTON — 21772 — REGISTERED PROFESSIONAL ENGINEER

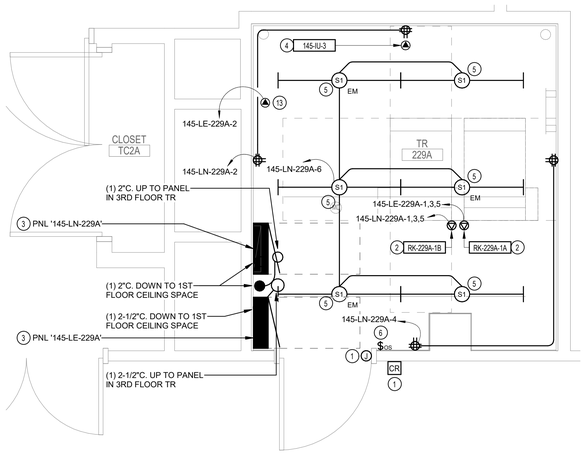
OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: ELECTRICAL REMODEL PLAN - FIRST FLOOR ENLARGED PLANS
PHASE: 100% CONSTRUCTION DOCUMENTS
PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES
PROJECT NUMBER: 568-21-701
BUILDING NUMBER: 145
APPROVED: Project Director
FLS: FULLY SPRINKLERED
LOCATION: FORT MEADE, SOUTH DAKOTA
ISSUE DATE: 11/05/2024
CHECKED BY: MER
DRAWN BY: AJW
DRAWING NUMBER: 145-EP-013

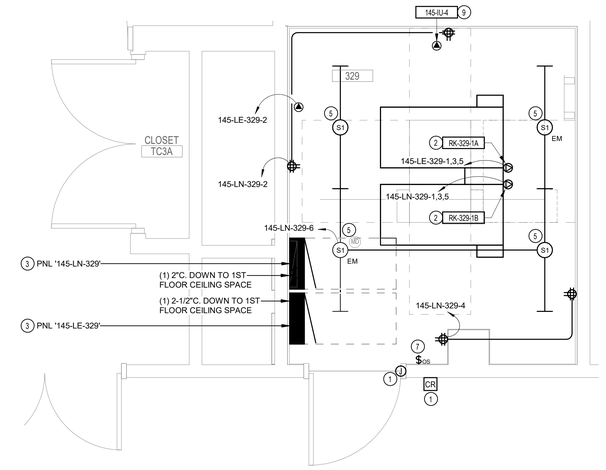
FOR OFFICIAL USE ONLY (FOUO)

VA FORM 08 - 6231



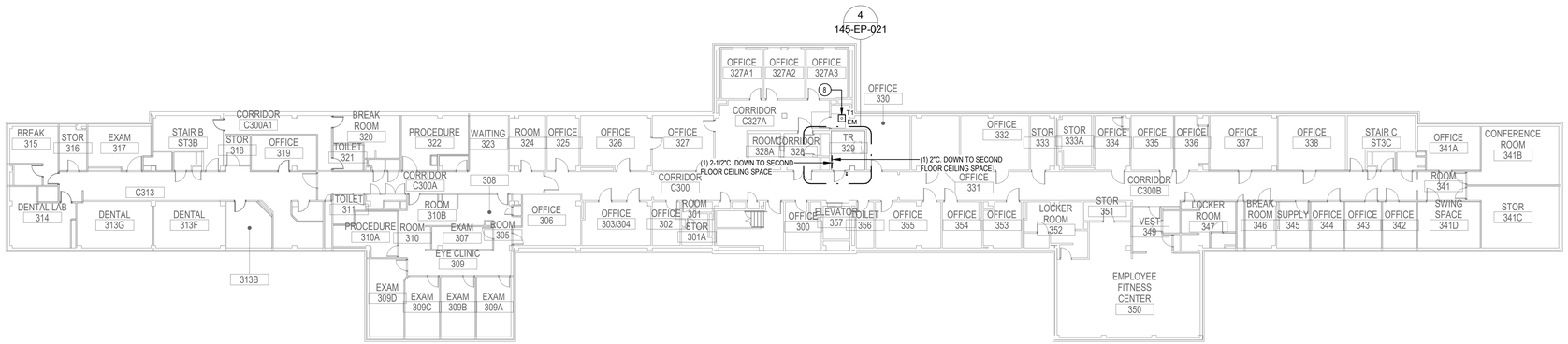
3 ENLARGED ROOM - 229A & TC2A ELECTRICAL REMODEL

1/2" = 1'-0"



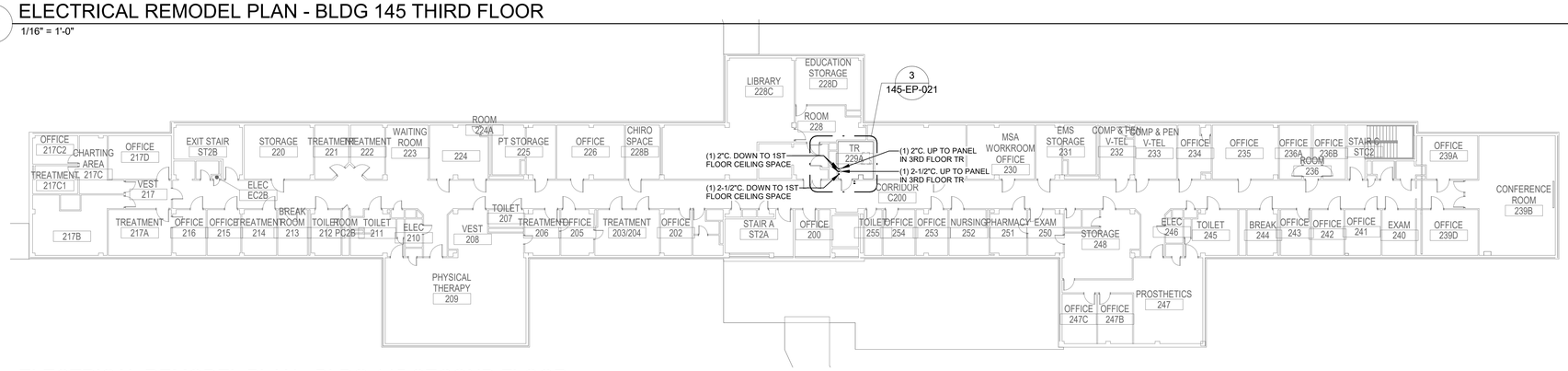
4 ENLARGED ROOM - 329 & TC3A ELECTRICAL REMODEL

1/2" = 1'-0"



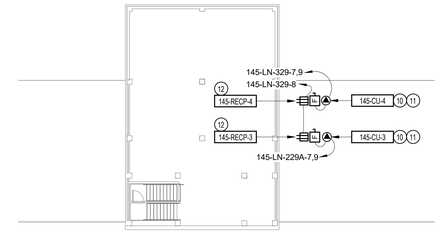
2 ELECTRICAL REMODEL PLAN - BLDG 145 THIRD FLOOR

1/16" = 1'-0"



1 ELECTRICAL REMODEL PLAN - BLDG 145 SECOND FLOOR

1/16" = 1'-0"



5 ELECTRICAL REMODEL PLAN - BLDG 145 ROOF

1/16" = 1'-0"

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

GENERAL NOTES

1. COORDINATE EXACT LOCATION OF MECHANICAL AND TELECOMMUNICATIONS EQUIPMENT WITH THE CORRESPONDING DISCIPLINE'S DRAWINGS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMOPORARILY MOVING AND RETURNING FURNITURE, FIXTURES, AND EQUIPMENT WITHIN SPACES AS REQUIRED TO COMPLETE EACH DAYS WORK. THE VA WILL REMOVE OR SECURE PHI, , PPI, AND PERSONALY PROPERTY. COORDINATE THIS WORK WITH THE COR.
3. REFER TO ASSOCIATED TN SHEETS FOR RACK QUANTITES IN EXISTING AND NEW TR SPACES.
4. REFER TO ELECTRICAL FEEDER SCHEDULES ON SHEET 000-EG-001 FOR CONDUIT AND CONDUCTOR FEEDER REQUIREMENTS.
5. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON SHEET 145-EP-011 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
6. CONDUIT ROUTING SHOWN IS SCHEMATIC BY DESIGN. CONTRACTOR SHALL VERIFY FEASIBILITY PRIOR TO INSTALLATION.

KEYNOTES

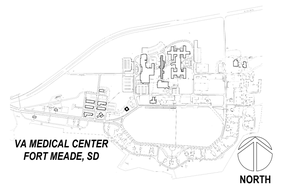
1 CONTRACTOR TO PROVIDE RACEWAY AND BOXES FOR ACCESS CONTROLS SYSTEM COMPONENTS.
2 CONTRACTOR TO PROVIDE NEW L21-30R RECEPTACLE FOR NEW RACK POWER. RECEPTACLE TO BE MOUNTED DIRECTLY ON CABLE TRAY.
3 CONTRACTOR TO PROVIDE NEW 208Y/120V, 100A, PANELBOARD. CONTRACTOR TO PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION. REFER TO FEEDER SCHEDULE ON 000-EG-001 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
4 CONTRACTOR TO PROVIDE CONDUIT AND CONDUCTORS FOR NEW INDOOR MECHANICAL UNIT. SEE ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.
5 CONTRACTOR TO PROVIDE NEW LIGHT FIXTURE. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION. REFER TO LIGHT FIXTURE SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION AMD REQUIREMENTS.
6 CONTRACTOR TO PROVIDE NEW OCCUPANCY SENSOR SWITCH. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION.
7 CONTRACTOR TO PROVIDE NEW LIGHT SWITCH. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION.
8 CONTRACTOR TO PROVIDE NEW LIGHT FIXTURE AND TIE INTO EXISTING LIGHT CIRCUIT. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION. REFER TO LIGHT FIXTURE SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION AMD REQUIREMENTS.
9 CONTRACTOR TO PROVIDE CONDUIT AND CONDUCTORS FOR NEW INDOOR MECHANICAL UNIT. SEE ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE ON SHEET 145-EP-011 FOR ADDITIONAL INFORMATION.
10 CONTRACTOR TO PROVIDE CONDUIT AND CONDUCTORS FOR NEW OUTDOOR MECHANICAL UNIT. SEE ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE ON SHEET 145-EP-011 FOR ADDITIONAL INFORMATION.
11 CONTRACTOR TO PROVIDE NEW DISCONNECT WITH NEW FUSES FOR NEW MECHANICAL EQUIPMENT. SEE ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE ON SHEET 145-EP-011 FOR ADDITIONAL INFORMATION.
12 CONTRACTOR TO PROVIDE WET-RATED CONVENIANCE RECEPTACLE MOUNTED BELOW DISCONNECT. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION AND WEATHER PROTECTION.
13 CONTRACTOR TO PROVIDE CONNECTION TO DRAIN PAN PUMP. PROVIDE CONDUITS AND CONDUCTORS AS REQUIRED FOR COMPLETE OPERATION.

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	MODEL #	LAMP TYPE	CRI	DELIVERED LUMENS	COLOR TEMP	INPUT WATTS	FINISH
S1	LED STRIP LIGHT FIXTURE, LENSED, WHITE HOUSING, PROVIDE WITH E10WLCP EM DRIVER WHERE NOTED AS EMERGENCY ON PLANS.	LITHONIA	#ZL1N-L48-7000LM-FST-MVOLT-40K-80CRI-WH (E10WLCP)	LED	80	6,785	4000K	52	WHITE

NOTES:

PROJECT KEY PLAN



Revisions:	Date:

CONSULTANT
ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
360.936.3076
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD
A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.426.4723
ADAM GODDIN, PE
GDM ARCHITECTS - ENGINEERS

STAMP
REGISTERED PROFESSIONAL ENGINEER — STATE OF WASHINGTON

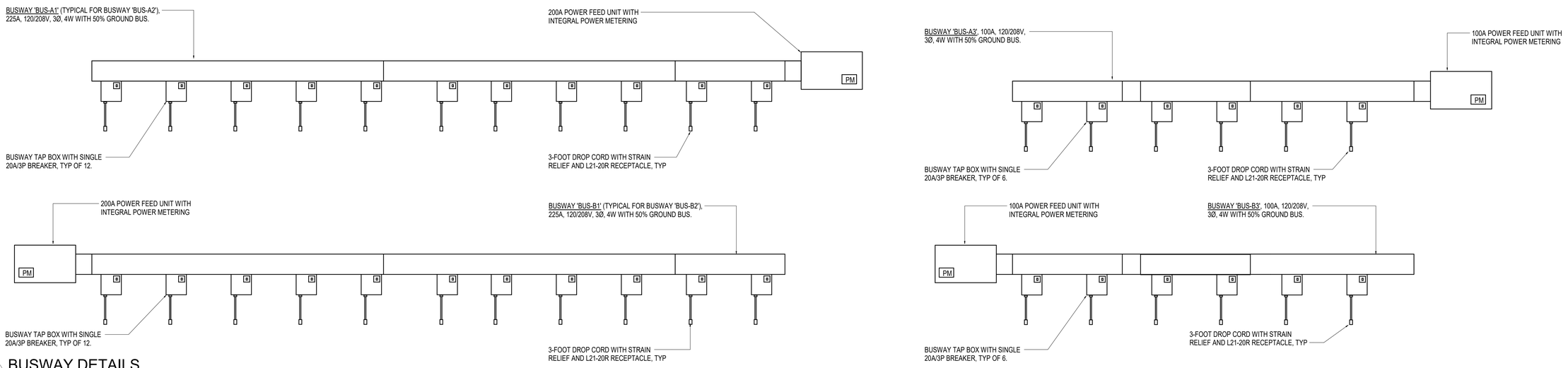
OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT
VA U.S. Department of Veterans Affairs

DRAWING TITLE: ELECTRICAL REMODEL PLAN - SECOND & THIRD FLOORS
PHASE: 100% CONSTRUCTION DOCUMENTS
PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES
PROJECT NUMBER: 568-21-701
BUILDING NUMBER: 145
APPROVED: Project Director
FLS: FULLY SPRINKLERED
LOCATION: FORT MEADE, SOUTH DAKOTA
DRAWING NUMBER: 145-EP-021
ISSUE DATE: 11/05/2024
CHECKED BY: MER
DRAWN BY: AJW

FOR OFFICIAL USE ONLY (FOUO)

VA FORM 08 - 6231

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.



1 BUSWAY DETAILS

NOT TO SCALE

Revisions:	Date:

CONSULTANT

ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
360.936.3076
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD

A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.426.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

ADAM EDWARD GODDIN, STATE OF WASHINGTON, 21702, REGISTERED PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: DATA CENTER ELECTRICAL DETAILS

PHASE: 100% CONSTRUCTION DOCUMENTS

PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES

PROJECT NUMBER: 568-21-701

BUILDING NUMBER: 145

APPROVED: Project Director

FOR OFFICIAL USE ONLY (FOUO)

FLS: FULLY SPRINKLERED

LOCATION: FORT MEADE, SOUTH DAKOTA

ISSUE DATE: 11/05/2024

CHECKED BY: MER

DRAWN BY: AJW

DRAWING NUMBER: 145-EP-100

VA FORM 08 - 6231

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

GENERAL DEMOLITION NOTES

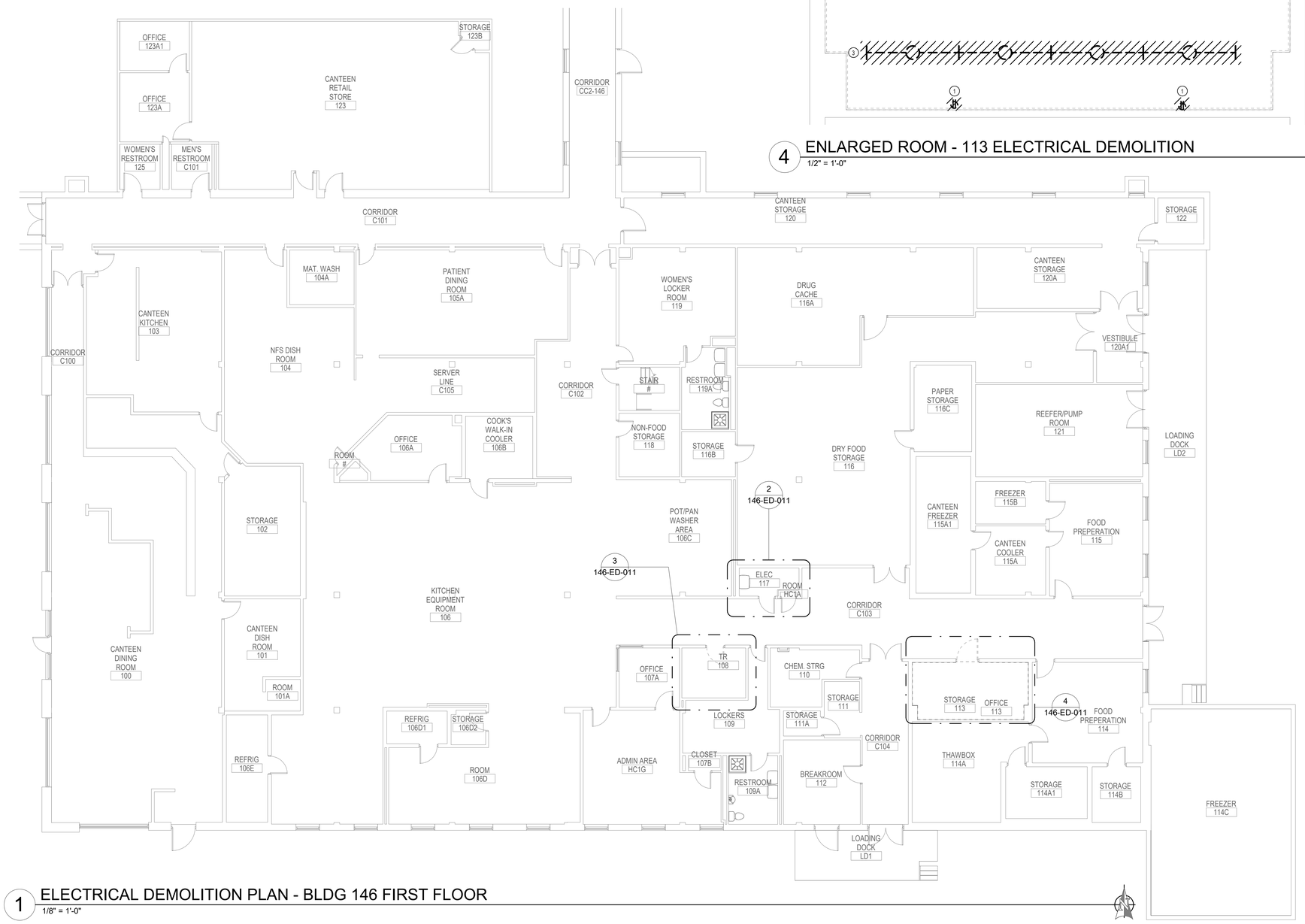
1. CONTRACTOR SHALL COORDINATE ALL OUTAGES WITH THE COR PRIOR TO BEGINNING WORK. GREAT CARE SHALL BE TAKEN TO MINIMIZE OUTAGE DURATION TO SHORTEST EXTENT POSSIBLE. NO DEMOLITION SHALL OCCUR ON THE UPS SYSTEM, LIFE SAFETY SYSTEM, TELECOMMUNICATIONS SYSTEM, OR ANY OTHER CRITICAL SYSTEM UNTIL THE NEW/REPLACEMENT SYSTEMS ARE IN PLACE AND READY FOR SWITCHOVER.
2. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM RECORD DRAWINGS AND/OR A NON-DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.
3. THE COR SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS. THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A WAREHOUSE AS DIRECTED BY THE COR. THE CONTRACTOR SHALL DISPOSE OF, OFF SITE, ALL UNWANTED MATERIALS.
4. DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
5. COORDINATE WITH THE OTHER DISCIPLINE DRAWINGS FOR AREAS OF DEMOLITION AND NEW WORK. PROVIDE MINOR RELOCATION OF LIGHT FIXTURES AND DEVICES TO ACCOMMODATE NEW MECHANICAL AND TELECOM EQUIPMENT LOCATIONS.
6. FOR WALL/CEILINGS SCHEDULED TO BE DEMOLISHED, DEMOLISH ALL CONDUIT, WIRE, DEVICES, BOXES, ETC. BACK TO THE EXTENT PRACTICAL TO ACCOMMODATE DEMOLITION. RELOCATE EXISTING LIGHT FIXTURES, DEVICES, CONDUIT, AND WIRE AS REQUIRED. PROVIDE EXTENSION OF CONDUIT AND WIRE AS REQUIRED TO ACCOMMODATE RELOCATED ITEMS.
7. FOR THE RENOVATED TELECOMMUNICATIONS ROOMS WITH NEW PAINTED PLYWOOD WALLS, CONTRACTOR SHALL DISCONNECT AND TEMPORARILY REMOVE ALL ELECTRICAL DEVICES, BOXES, CONDUIT, AND WIRE TO ALLOW FOR PLYWOOD INSTALLATION. REINSTALL ALL DEVICES BACK IN SAME LOCATIONS AND PROVIDE BOX EXTENSIONS, CIRCUIT EXTENSIONS, ETC. AS REQUIRED TO ACCOMMODATE RENOVATION.
8. COORDINATE WITH THE OTHER DISCIPLINE DRAWINGS FOR AREAS OF DEMOLITION AND NEW WORK.
9. LIGHTING AND RECEPTACLES SHALL REMAIN IN EXISTING TELECOM ROOMS. NO DEMOLITION UNLESS OTHERWISE NOTED

KEYNOTES

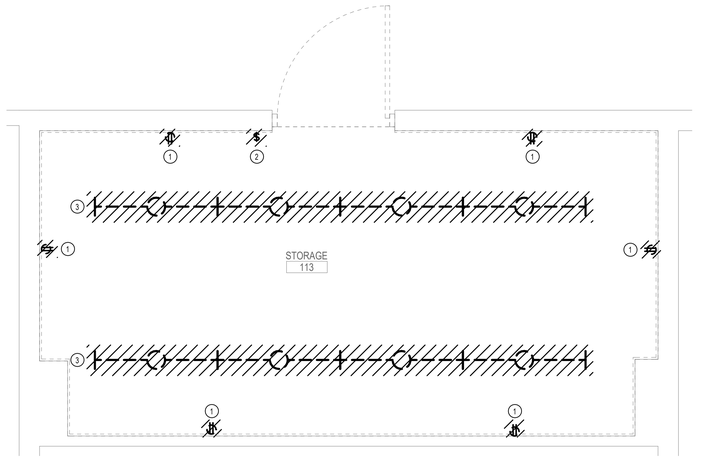
1 EXISTING ELECTRICAL RECEPTACLES TO BE REMOVED. CONTRACTOR TO REMOVE EXISTING CONDUIT AND CONDUCTORS BACK TO SOURCE.

2 EXISTING LIGHT SWITCH TO BE REMOVED. REMOVE CONDUIT AND CONDUCTORS BACK TO SOURCE.

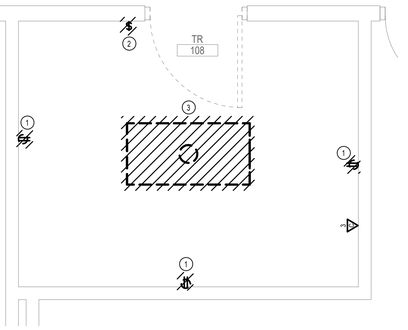
3 LIGHT FIXTURE TO BE REMOVED. CONTRACTOR TO REMOVE EXISTING CONDUIT AND CONDUCTORS BACK TO SOURCE. MAINTAIN CIRCUIT CONTINUITY FOR EXISTING LIGHT FIXTURES TO REMAIN.



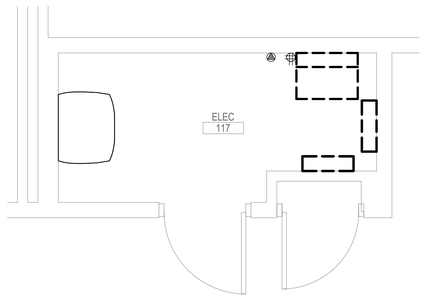
1 ELECTRICAL DEMOLITION PLAN - BLDG 146 FIRST FLOOR
1/8" = 1'-0"



4 ENLARGED ROOM - 113 ELECTRICAL DEMOLITION
1/2" = 1'-0"

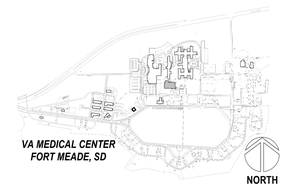


3 ENLARGED ROOM - 108 ELECTRICAL DEMOLITION
1/2" = 1'-0"



2 ENLARGED ROOM - 117 ELECTRICAL DEMOLITION
1/2" = 1'-0"

PROJECT KEY PLAN



VA MEDICAL CENTER FORT MEADE, SD

NORTH

Revisions:	Date:

CONSULTANT
ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD
A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

EDWARD STATE OF WASHINGTON 43109 REGISTERED PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: ELECTRICAL DEMOLITION PLAN - FIRST FLOOR	PHASE: 100% CONSTRUCTION DOCUMENTS
APPROVED: Project Director	FLS: FULLY SPRINKLERED
FOR OFFICIAL USE ONLY (FOUO)	

PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES	PROJECT NUMBER: 568-21-701
	BUILDING NUMBER: 146
LOCATION: FORT MEADE, SOUTH DAKOTA	DRAWING NUMBER: 146-ED-011
ISSUE DATE: 11/05/2024	CHECKED BY: MER
	DRAWN BY: AJW

VA FORM 08 - 6231

BLDG 146 - EQUIPMENT SCHEDULE															
EQUIPMENT TAG	RATED VOLTAGE	VOLTAGE PHASE	HP	KW	FLA	MCA	MOCP	# PARALLEL CONDUCTORS	BRANCH CIRCUIT RACEWAY	BRANCH CIRCUIT PHASE	BRANCH CIRCUIT N	BRANCH CIRCUIT G	DISCONNECT SIZE	DISCONNECT FUSE	NOTES
MECHANICAL EQUIPMENT															
146-IU-1	208	1	-	-	0.3	14.0	15	-	3/4"	2#12	-	#12	-	-	3
146-OU-1	208	1	-	-	-	24.0	35	-	3/4"	2#8	-	#10	60	35	1
TELECOMMUNICATIONS EQUIPMENT															
RK-108-1A	208	3	-	5.00	-	-	20	-	3/4"	3#12	1#12	#12	-	-	2
RK-108-1B	208	3	-	5.00	-	-	20	-	3/4"	3#12	1#12	#12	-	-	2

NOTES

1. PROVIDE NEW DISCONNECT.
2. PROVIDE NEMA L21-20R INTERLOCKING RECEPTACLE.
3. PROVIDE NEW MOTOR-RATED SWITCH.

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	MODEL #	LAMP TYPE	CRI	DELIVERED LUMENS	COLOR TEMP	INPUT WATTS	FINISH
S1	LED STRIP LIGHT FIXTURE, LENSED, WHITE HOUSING, PROVIDE WITH E10WLCP EM DRIVER WHERE NOTED AS EMERGENCY ON PLANS.	LITHONIA	#ZL1N-L48-7000LM-FST-MVOLT-40K-80CRI-WH (E10WLCP)	LED	80	6,785	4000K	52	WHITE
T1	2' X 2' LED TROFFER. RIBBED REFLECTOR, CURVED RIBBED DIFFUSER. PROVIDE WITH EMERGENCY BATTERY PACK OPTION #E10WLCP WHERE SHOWN AS EMERGENCY ON PLANS.	LITHONIA	#2BLT2-48L-ADP-EZ1-LP840 (E10WLCP)	LED	82	5,159	4000K	42.9	WHITE
T2	2' X 4' LED TROFFER. RIBBED REFLECTOR, CURVED RIBBED DIFFUSER. PROVIDE WITH EMERGENCY BATTERY PACK OPTION #E10WLCP WHERE SHOWN AS EMERGENCY ON PLANS.	LITHONIA	#2BLT4-48L-ADP-EZ1-LP840 (E10WLCP)	LED	82	5,169	4000K	39.3	WHITE

NOTES:

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

GENERAL NOTES

1. COORDINATE EXACT LOCATION OF MECHANICAL AND TELECOMMUNICATIONS EQUIPMENT WITH THE CORRESPONDING DISCIPLINE'S DRAWINGS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMOPORARILY MOVING AND RETURNING FURNITURE, FIXTURES, AND EQUIPMENT WITHIN SPACES AS REQUIRED TO COMPLETE EACH DAYS WORK. THE VA WILL REMOVE OR SECURE PHI,, PPI, AND PERSONALY PROPERTY. COORDINATE THIS WORK WITH THE COR.
3. REFER TO ASSOCIATED TN SHEETS FOR RACK QUANTITES IN EXISTING AND NEW TR SPACES.
4. REFER TO ELECTRICAL FEEDER SCHEDULES ON SHEET 000-EG-001 FOR CONDUIT AND CONDUCTOR FEEDER REQUIREMENTS.
5. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
6. CONDUIT ROUTING SHOWN IS SCHEMATIC BY DESIGN. CONTRACTOR SHALL VERIFY FEASIBILITY PRIOR TO INSTALLATION.

KEYNOTES

1 CONTRACTOR TO PROVIDE RACEWAY AND BOXES FOR ACCESS CONTROLS SYSTEM COMPONENTS.

2 CONTRACTOR TO PROVIDE NEW 208Y/120V, 100A, PANELBOARD. CONTRACTOR TO PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION. REFER TO FEEDER SCHEDULE ON 000-EG-001 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

3 CONTRACTOR TO PROVIDE NEW LIGHT FIXTURE. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION. REFER TO LIGHT FIXTURE SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION AMD REQUIREMENTS.

4 CONTRACTOR TO PROVIDE NEW LIGHT SWITCH. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION.

5 CONTRACTOR TO PROVIDE NEW L21-20R RECEPTACLE FOR NEW RACK POWER. RECEPTACLE TO BE MOUNTED DIRECTLY ON CABLE TRAY.

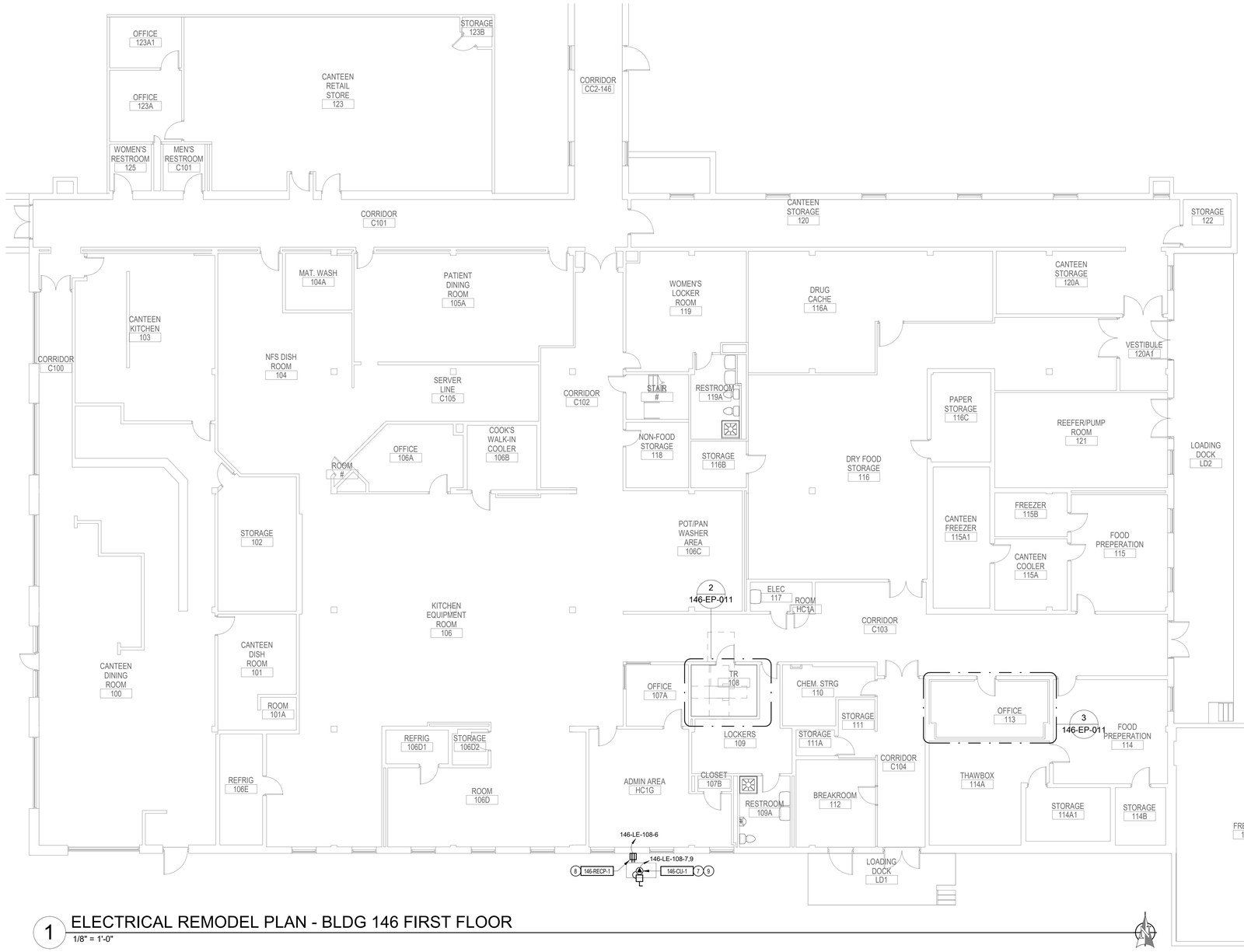
6 INDOOR MECHANICAL UNIT FED BY OUTDOOR MECHANICAL UNIT. PROVIDE NEW MOTOR-RATED SWITCH AND ALL CONDUIT AND CONDUCTORS FROM CONTROLS TO INDOOR UNIT AS REQUIRED FOR COMPLETE OPERATION.

7 CONTRACTOR TO PROVIDE CONDUIT AND CONDUCTORS FOR NEW OUTDOOR MECHANICAL UNIT. SEE ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.

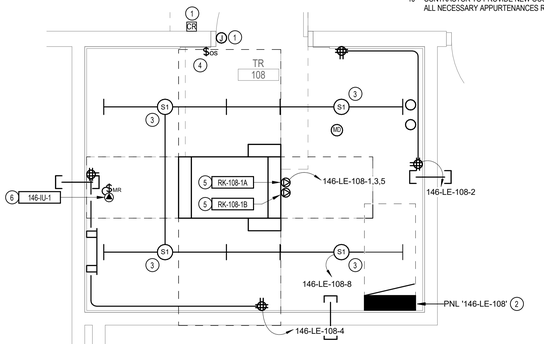
8 CONTRACTOR TO PROVIDE WET-RATED CONVENIANCE RECEPTACLE. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION AND WEATHER PROTECTION.

9 CONTRACTOR TO PROVIDE NEW DISCONNECT WITH NEW FUSES FOR NEW MECHANICAL EQUIPMENT. SEE ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.

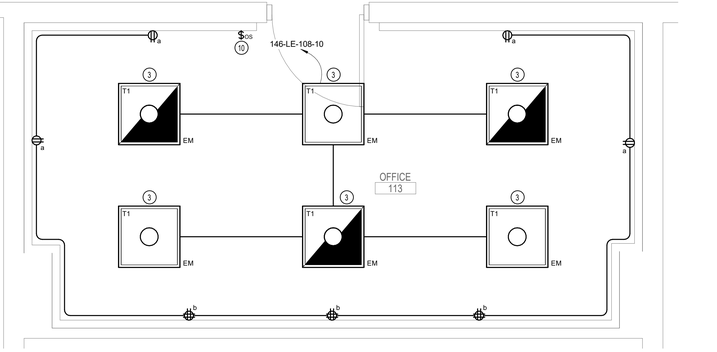
10 CONTRACTOR TO PROVIDE NEW OCCUPANCY SENSOR SWITCH. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION.



1 ELECTRICAL REMODEL PLAN - BLDG 146 FIRST FLOOR
1/8" = 1'-0"

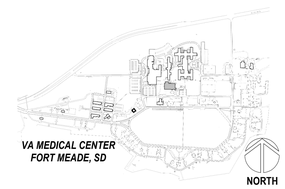


2 ENLARGED ROOM - 108 ELECTRICAL REMODEL
1/2" = 1'-0"



3 ENLARGED ROOM - 113 ELECTRICAL REMODEL
1/2" = 1'-0"

PROJECT KEY PLAN



Revisions:	Date:

CONSULTANT
ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD
A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP
ADAM EDWARD GODDIN — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT
VA U.S. Department of Veterans Affairs

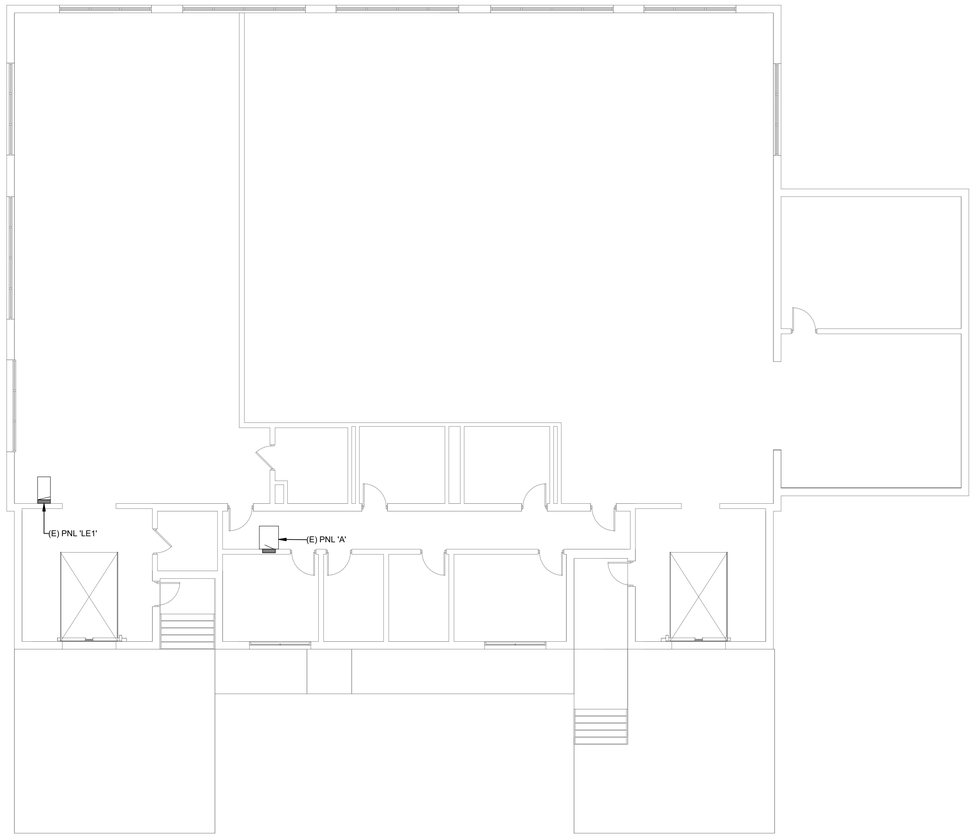
DRAWING TITLE: ELECTRICAL REMODEL PLAN - FIRST FLOOR	PHASE: 100% CONSTRUCTION DOCUMENTS	PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES	PROJECT NUMBER: 568-21-701
			BUILDING NUMBER: 146
APPROVED: Project Director	FLS	LOCATION: FORT MEADE, SOUTH DAKOTA	DRAWING NUMBER: 146-EP-011
FOR OFFICIAL USE ONLY (FOUO)	FULLY SPRINKLERED	ISSUE DATE: 11/05/2024 / CHECKED BY: MER / DRAWN BY: AJW	

VA FORM 08 - 6231

GENERAL DEMOLITION NOTES

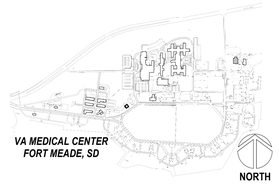
1. CONTRACTOR SHALL COORDINATE ALL OUTAGES WITH THE COR PRIOR TO BEGINNING WORK. GREAT CARE SHALL BE TAKEN TO MINIMIZE OUTAGE DURATION TO SHORTEST EXTENT POSSIBLE. NO DEMOLITION SHALL OCCUR ON THE UPS SYSTEM, LIFE SAFETY SYSTEM, TELECOMMUNICATIONS SYSTEM, OR ANY OTHER CRITICAL SYSTEM UNTIL THE NEW/REPLACEMENT SYSTEMS ARE IN PLACE AND READY FOR SWITCHOVER.
2. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM RECORD DRAWINGS AND/OR A NON-DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.
3. THE COR SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS. THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A WAREHOUSE AS DIRECTED BY THE COR. THE CONTRACTOR SHALL DISPOSE OF, OFF SITE, ALL UNWANTED MATERIALS.
4. DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
5. COORDINATE WITH THE OTHER DISCIPLINE DRAWINGS FOR AREAS OF DEMOLITION AND NEW WORK. PROVIDE MINOR RELOCATION OF LIGHT FIXTURES AND DEVICES TO ACCOMMODATE NEW MECHANICAL AND TELECOM EQUIPMENT LOCATIONS.
6. FOR WALL/CEILINGS SCHEDULED TO BE DEMOLISHED, DEMOLISH ALL CONDUIT, WIRE, DEVICES, BOXES, ETC. BACK TO THE EXTENT PRACTICAL TO ACCOMMODATE DEMOLITION. RELOCATE EXISTING LIGHT FIXTURES, DEVICES, CONDUIT, AND WIRE AS REQUIRED. PROVIDE EXTENSION OF CONDUIT AND WIRE AS REQUIRED TO ACCOMMODATE RELOCATED ITEMS.
7. FOR THE RENOVATED TELECOMMUNICATIONS ROOMS WITH NEW PAINTED PLYWOOD WALLS, CONTRACTOR SHALL DISCONNECT AND TEMPORARILY REMOVE ALL ELECTRICAL DEVICES, BOXES, CONDUIT, AND WIRE TO ALLOW FOR PLYWOOD INSTALLATION. REINSTALL ALL DEVICES BACK IN SAME LOCATIONS AND PROVIDE BOX EXTENSIONS, CIRCUIT EXTENSIONS, ETC. AS REQUIRED TO ACCOMMODATE RENOVATION.
8. COORDINATE WITH THE OTHER DISCIPLINE DRAWINGS FOR AREAS OF DEMOLITION AND NEW WORK.
9. LIGHTING AND RECEPTACLES SHALL REMAIN IN EXISTING TELECOM ROOMS. NO DEMOLITION UNLESS OTHERWISE NOTED

KEYNOTES



1 ELECTRICAL DEMOLITION PLAN - BLDG 147 FIRST FLOOR
1/8" = 1'-0"

PROJECT KEY PLAN



VA MEDICAL CENTER
FORT MEADE, SD

NORTH

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

Revisions:	Date:

CONSULTANT

ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD

A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

EDWARD STATE OF WASHINGTON 21703 REGISTERED PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: ELECTRICAL DEMOLITION PLAN - FIRST FLOOR

PHASE: 100% CONSTRUCTION DOCUMENTS

PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES

PROJECT NUMBER: 568-21-701

BUILDING NUMBER: 147

APPROVED: Project Director: FOR OFFICIAL USE ONLY (FOUO)

FLS: FULLY SPRINKLERED

LOCATION: FORT MEADE, SOUTH DAKOTA

ISSUE DATE: 11/05/2024 | CHECKED BY: MER | DRAWN BY: AJW

DRAWING NUMBER: 147-ED-011

VA FORM 08 - 6231

BLDG 147 - EQUIPMENT SCHEDULE															
EQUIPMENT TAG	RATED VOLTAGE	VOLTAGE PHASE	HP	KW	FLA	MCA	MOCP	# PARALLEL CONDUCTORS	BRANCH CIRCUIT				DISCONNECT		NOTES
									RACEWAY	PHASE	N	G	SIZE	FUSE	
TELECOMMUNICATIONS EQUIPMENT															
RK-109-1A	120	1	-	2.88	-	-	30	-	3/4"	2#10	-	#10	-	-	2
RK-109-1B	120	1	-	2.88	-	-	30	-	3/4"	2#10	-	#10	-	-	2

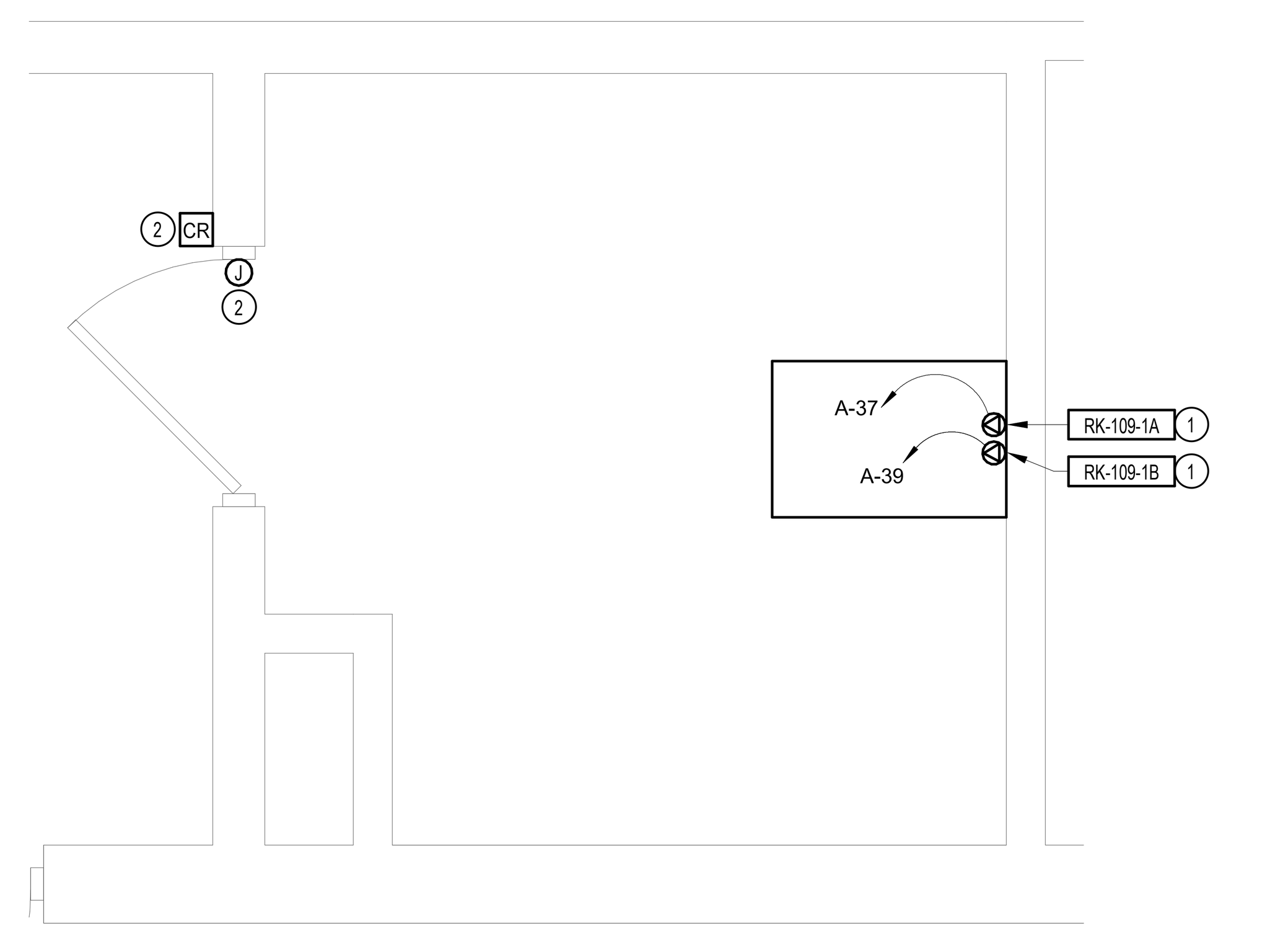
NOTES
1. PROVIDE NEW DISCONNECT
2. PROVIDE NEMA L5-30 RECEPTACLE.

GENERAL NOTES

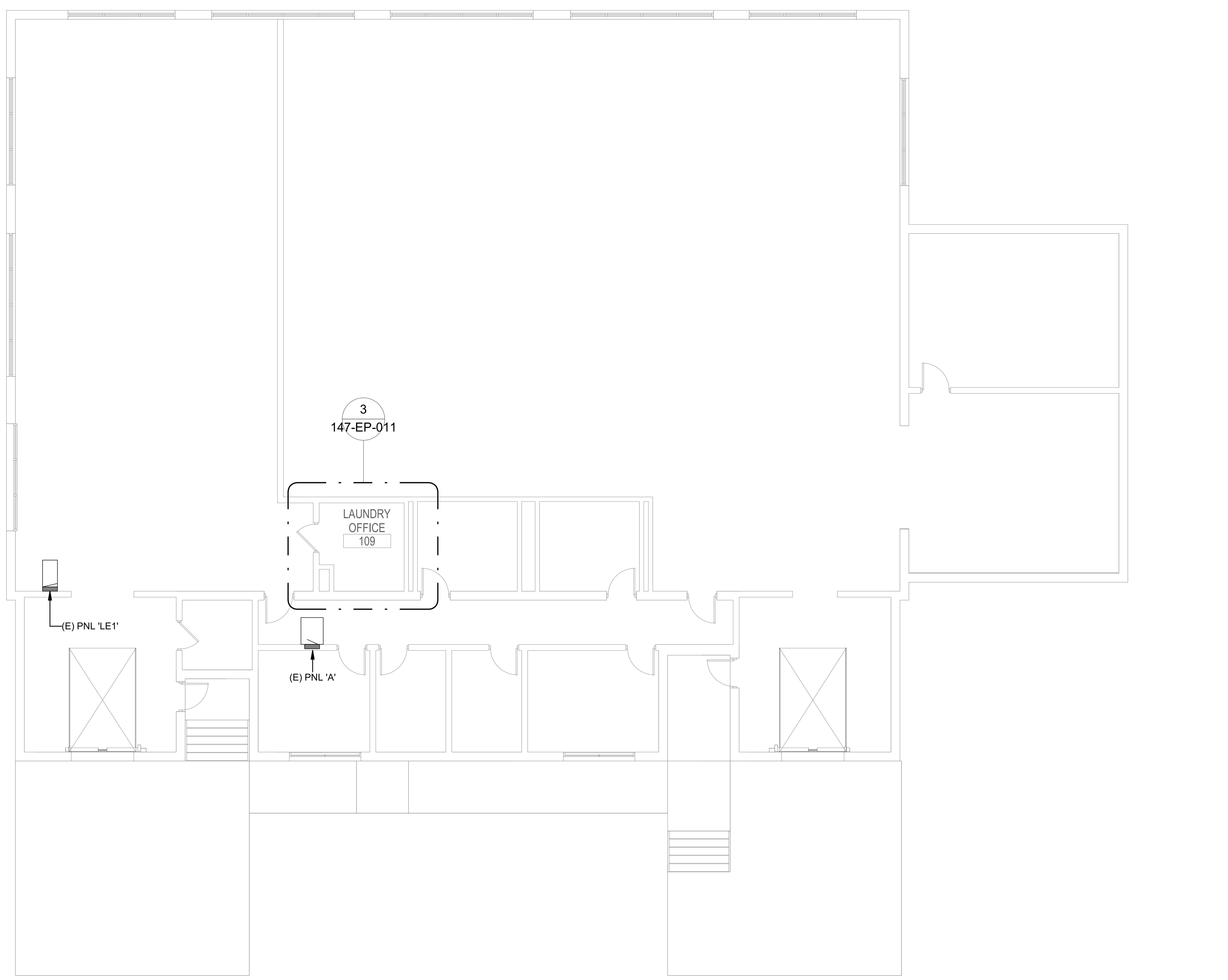
1. COORDINATE EXACT LOCATION OF MECHANICAL AND TELECOMMUNICATIONS EQUIPMENT WITH THE CORRESPONDING DISCIPLINE'S DRAWINGS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMOPORARILY MOVING AND RETURNING FURNITURE, FIXTURES, AND EQUIPMENT WITHIN SPACES AS REQUIRED TO COMPLETE EACH DAYS WORK. THE VA WILL REMOVE OR SECURE PHI,, PPI, AND PERSONALY PROPERTY. COORDINATE THIS WORK WITH THE COR.
3. REFER TO ASSOCIATED TN SHEETS FOR RACK QUANTITES IN EXISTING AND NEW TR SPACES.
4. REFER TO ELECTRICAL FEEDER SCHEDULES ON SHEET 000-EG-001 FOR CONDUIT AND CONDUCTOR FEEDER REQUIREMENTS.
5. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
6. CONDUIT ROUTING SHOWN IS SCHEMATIC BY DESIGN. CONTRACTOR SHALL VERIFY FEASIBILITY PRIOR TO INSTALLATION.

KEYNOTES

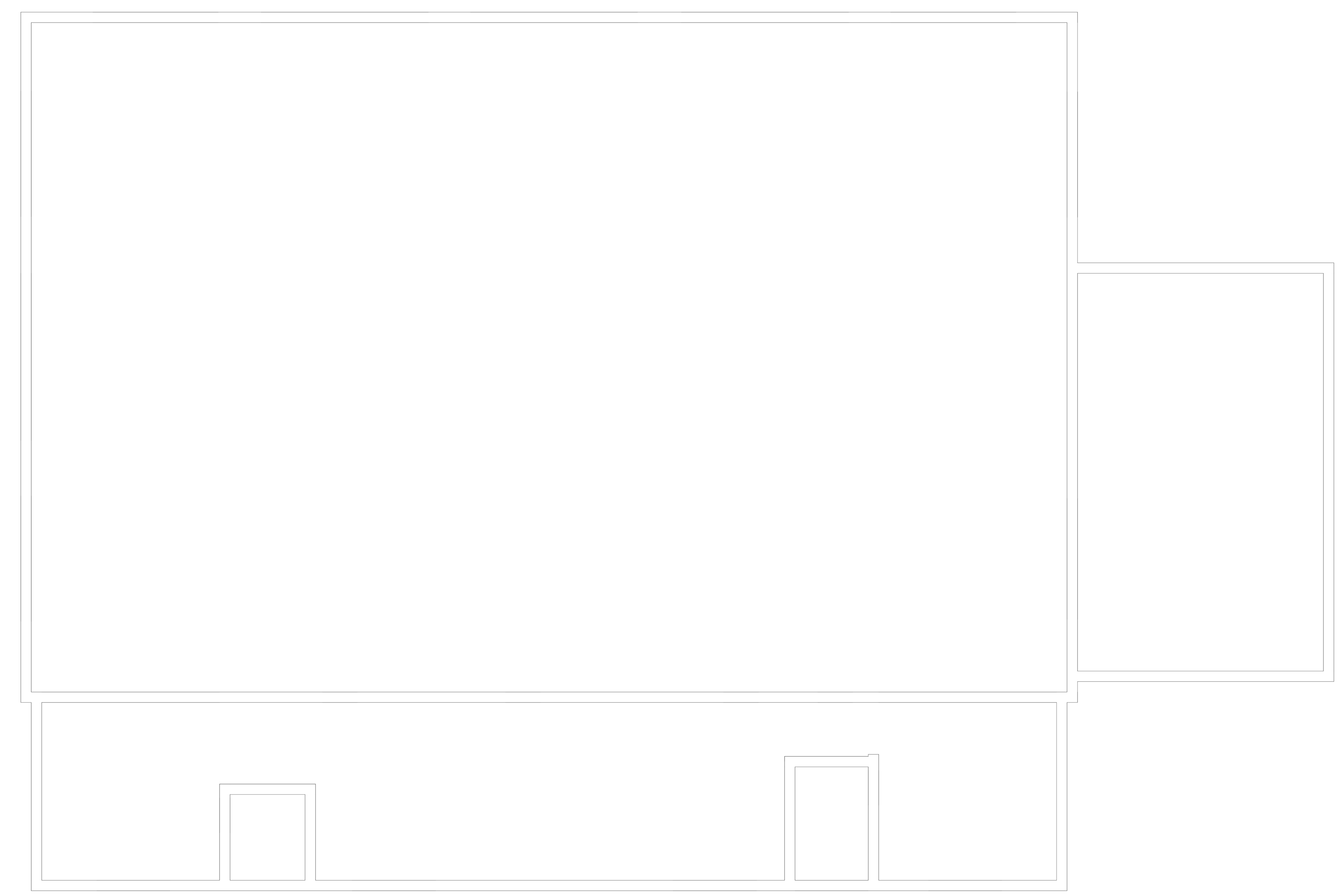
1 CONTRACTOR TO PROVIDE NEW L5-30 RECEPTACLE IN NEW JUNCTION BOX FOR NEW TELECOMMUNICATIONS ENCLOSURE UPS. ALIGN JUNCTION BOX TO ENCLOSURE 6"X6" CUTOUT BEHIND RACK. L5-30 RECEPTACLES TO BE MOUNTED IN SINGLE JUNCTION BOX UNLESS OTHERWISE NOTED.
2 CONTRACTOR TO PROVIDE RACEWAY AND BOXES FOR ACCESS CONTROLS SYSTEM COMPONENTS.



3 ENLARGED ROOM - 109 POWER REMODEL
1/2" = 1'-0"



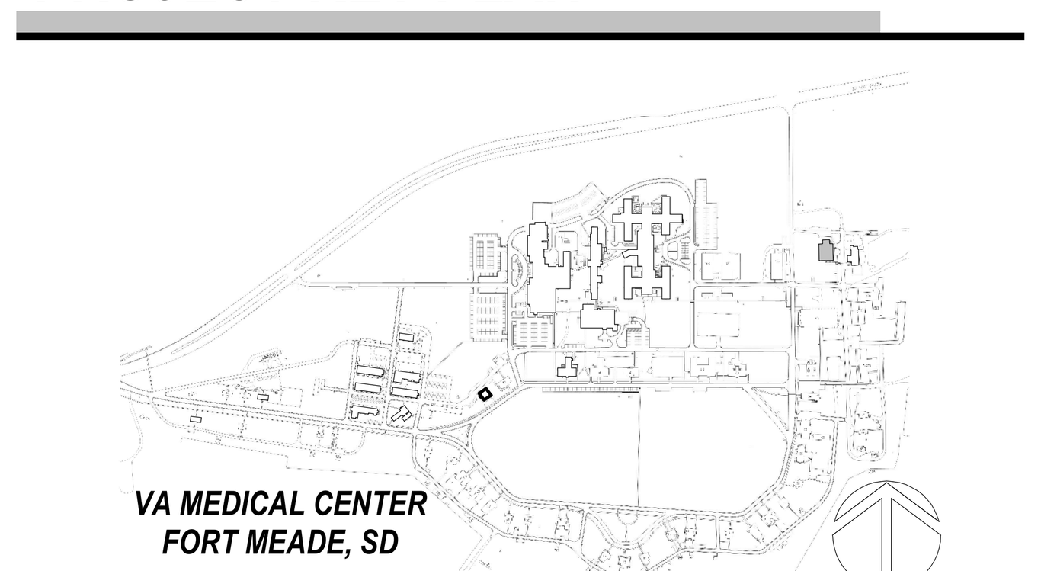
1 ELECTRICAL REMODEL PLAN - BLDG 147 FIRST FLOOR
1/8" = 1'-0"



2 ELECTRICAL REMODEL PLAN - BLDG 147 ROOF
1/8" = 1'-0"

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

PROJECT KEY PLAN



Revisions: | Date:

CONSULTANT
ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD
A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT
VA U.S. Department of Veterans Affairs

DRAWING TITLE: ELECTRICAL REMODEL PLAN - FIRST FLOOR
APPROVED: Project Director
FOR OFFICIAL USE ONLY (FOUO)

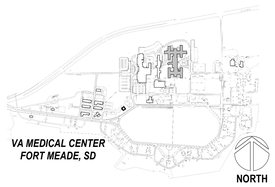
PHASE: 100% CONSTRUCTION DOCUMENTS
FLS: FULLY SPRINKLERED

PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES
LOCATION: FORT MEADE, SOUTH DAKOTA
ISSUE DATE: 11/05/2024 | CHECKED BY: MER | DRAWN BY: AJW

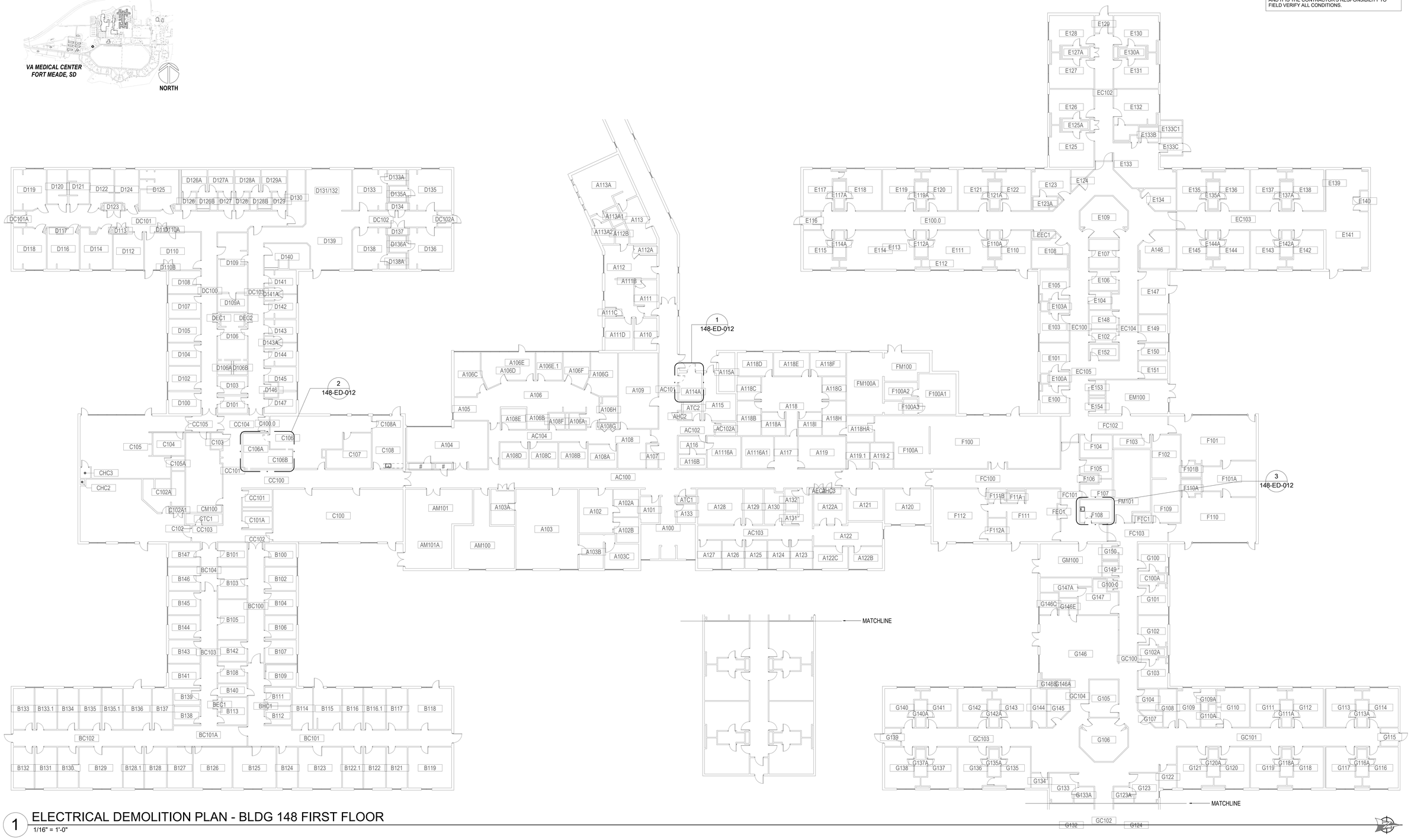
PROJECT NUMBER: 568-21-701
BUILDING NUMBER: 147
DRAWING NUMBER: 147-EP-011

VA FORM 08 - 6231

PROJECT KEY PLAN



THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.



1 ELECTRICAL DEMOLITION PLAN - BLDG 148 FIRST FLOOR
1/16" = 1'-0"

Revisions:	Date:

CONSULTANT
ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD
A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS - ENGINEERS

STAMP

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: ELECTRICAL DEMOLITION PLAN - FIRST FLOOR
APPROVED: Project Director
FOR OFFICIAL USE ONLY (FOUO)

PHASE: 100% CONSTRUCTION DOCUMENTS
FLS: FULLY SPRINKLERED

PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES
LOCATION: FORT MEADE, SOUTH DAKOTA
ISSUE DATE: 11/05/2024
CHECKED BY: MER
DRAWN BY: AJW

PROJECT NUMBER: 568-21-701
BUILDING NUMBER: 148
DRAWING NUMBER: 148-ED-011

VA FORM 08 - 6231

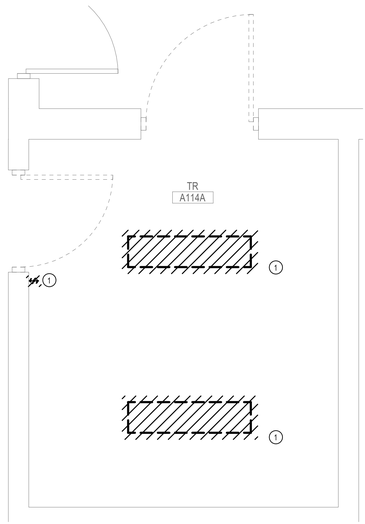
THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

GENERAL DEMOLITION NOTES

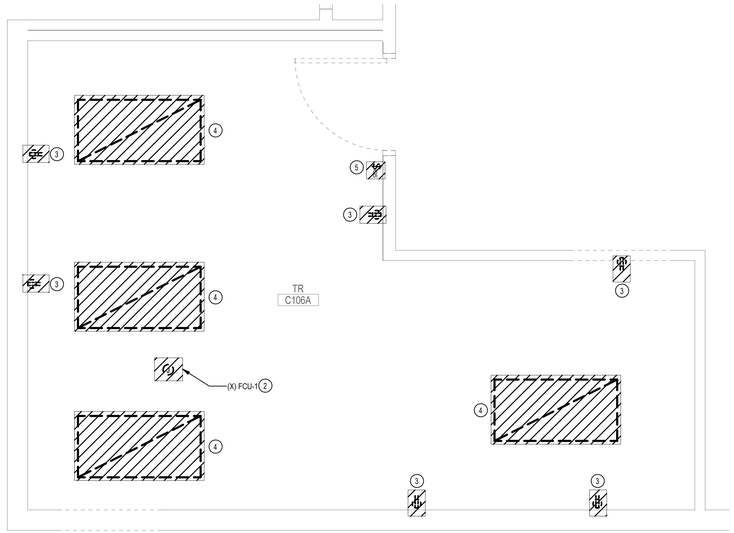
1. CONTRACTOR SHALL COORDINATE ALL OUTAGES WITH THE COR PRIOR TO BEGINNING WORK. GREAT CARE SHALL BE TAKEN TO MINIMIZE OUTAGE DURATION TO SHORTEST EXTENT POSSIBLE. NO DEMOLITION SHALL OCCUR ON THE UPS SYSTEM, LIFE SAFETY SYSTEM, TELECOMMUNICATIONS SYSTEM, OR ANY OTHER CRITICAL SYSTEM UNTIL THE NEW/REPLACEMENT SYSTEMS ARE IN PLACE AND READY FOR SWITCHOVER.
2. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM RECORD DRAWINGS AND/OR A NON-DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.
3. THE COR SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS. THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A WAREHOUSE AS DIRECTED BY THE COR. THE CONTRACTOR SHALL DISPOSE OF, OFF SITE, ALL UNWANTED MATERIALS.
4. DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
5. COORDINATE WITH THE OTHER DISCIPLINE DRAWINGS FOR AREAS OF DEMOLITION AND NEW WORK. PROVIDE MINOR RELOCATION OF LIGHT FIXTURES AND DEVICES TO ACCOMMODATE NEW MECHANICAL AND TELECOM EQUIPMENT LOCATIONS.
6. FOR WALL/CEILINGS SCHEDULED TO BE DEMOLISHED, DEMOLISH ALL CONDUIT, WIRE, DEVICES, BOXES, ETC. BACK TO THE EXTENT PRACTICAL TO ACCOMMODATE DEMOLITION. RELOCATE EXISTING LIGHT FIXTURES, DEVICES, CONDUIT, AND WIRE AS REQUIRED. PROVIDE EXTENSION OF CONDUIT AND WIRE AS REQUIRED TO ACCOMMODATE RELOCATED ITEMS.
7. FOR THE RENOVATED TELECOMMUNICATIONS ROOMS WITH NEW PAINTED PLYWOOD WALLS, CONTRACTOR SHALL DISCONNECT AND TEMPORARILY REMOVE ALL ELECTRICAL DEVICES, BOXES, CONDUIT, AND WIRE TO ALLOW FOR PLYWOOD INSTALLATION. REINSTALL ALL DEVICES BACK IN SAME LOCATIONS AND PROVIDE BOX EXTENSIONS, CIRCUIT EXTENSIONS, ETC. AS REQUIRED TO ACCOMMODATE RENOVATION.
8. COORDINATE WITH THE OTHER DISCIPLINE DRAWINGS FOR AREAS OF DEMOLITION AND NEW WORK.
9. LIGHTING AND RECEPTACLES SHALL REMAIN IN EXISTING TELECOM ROOMS. NO DEMOLITION UNLESS OTHERWISE NOTED

KEYNOTES

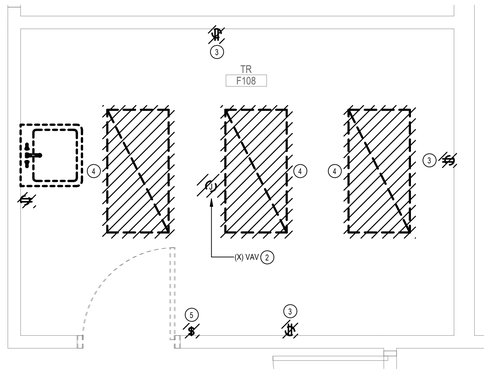
1 DEMOLISH SWITCHES, LIGHTING, AND RECEPTACLES. REMOVE CONDUIT AND CONDUCTORS BACK TO SOURCE.
2 EXISTING MECHANICAL UNIT TO BE RELOCATED BY MECHANICAL. REFER TO ASSOCIATED 'EP' SHEET FOR NEW LOCATION OF MECHANICAL UNIT.
3 EXISTING ELECTRICAL RECEPTACLES TO BE REMOVED. CONTRACTOR TO REMOVE EXISTING CONDUIT AND CONDUCTORS BACK TO SOURCE.
4 LIGHT FIXTURE TO BE REMOVED. CONTRACTOR TO REMOVE EXISTING CONDUIT AND CONDUCTORS BACK TO SOURCE. MAINTAIN CIRCUIT CONTINUITY FOR EXISTING LIGHT FIXTURES TO REMAIN.
5 EXISTING LIGHT SWITCH TO BE REMOVED. REMOVE CONDUIT AND CONDUCTORS BACK TO SOURCE.



1 ENLARGED ROOM - A114 ELECTRICAL DEMOLITION
1/2" = 1'-0"

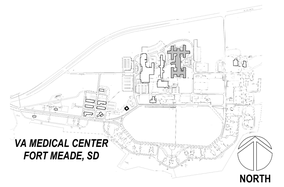


2 ENLARGED ROOM - C106A ELECTRICAL DEMOLITION
1/2" = 1'-0"



3 ENLARGED ROOM - F108 ELECTRICAL DEMOLITION
1/2" = 1'-0"

PROJECT KEY PLAN



Revisions:	Date:

CONSULTANT
ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD
A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP
ADAM EDWARD GODDIN — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER

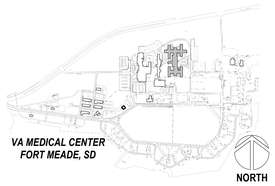
OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT
VA U.S. Department of Veterans Affairs

DRAWING TITLE: ELECTRICAL DEMOLITION PLAN - ENLARGED ROOMS
PHASE: 100% CONSTRUCTION DOCUMENTS
PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES
PROJECT NUMBER: 568-21-701
BUILDING NUMBER: 148
APPROVED: Project Director
FLS: FULLY SPRINKLERED
LOCATION: FORT MEADE, SOUTH DAKOTA
ISSUE DATE: 11/05/2024
CHECKED BY: MER
DRAWN BY: AJW
DRAWING NUMBER: 148-ED-012

FOR OFFICIAL USE ONLY (FOUO)

VA FORM 08 - 6231

PROJECT KEY PLAN



VA MEDICAL CENTER
FORT MEADE, SD

NORTH

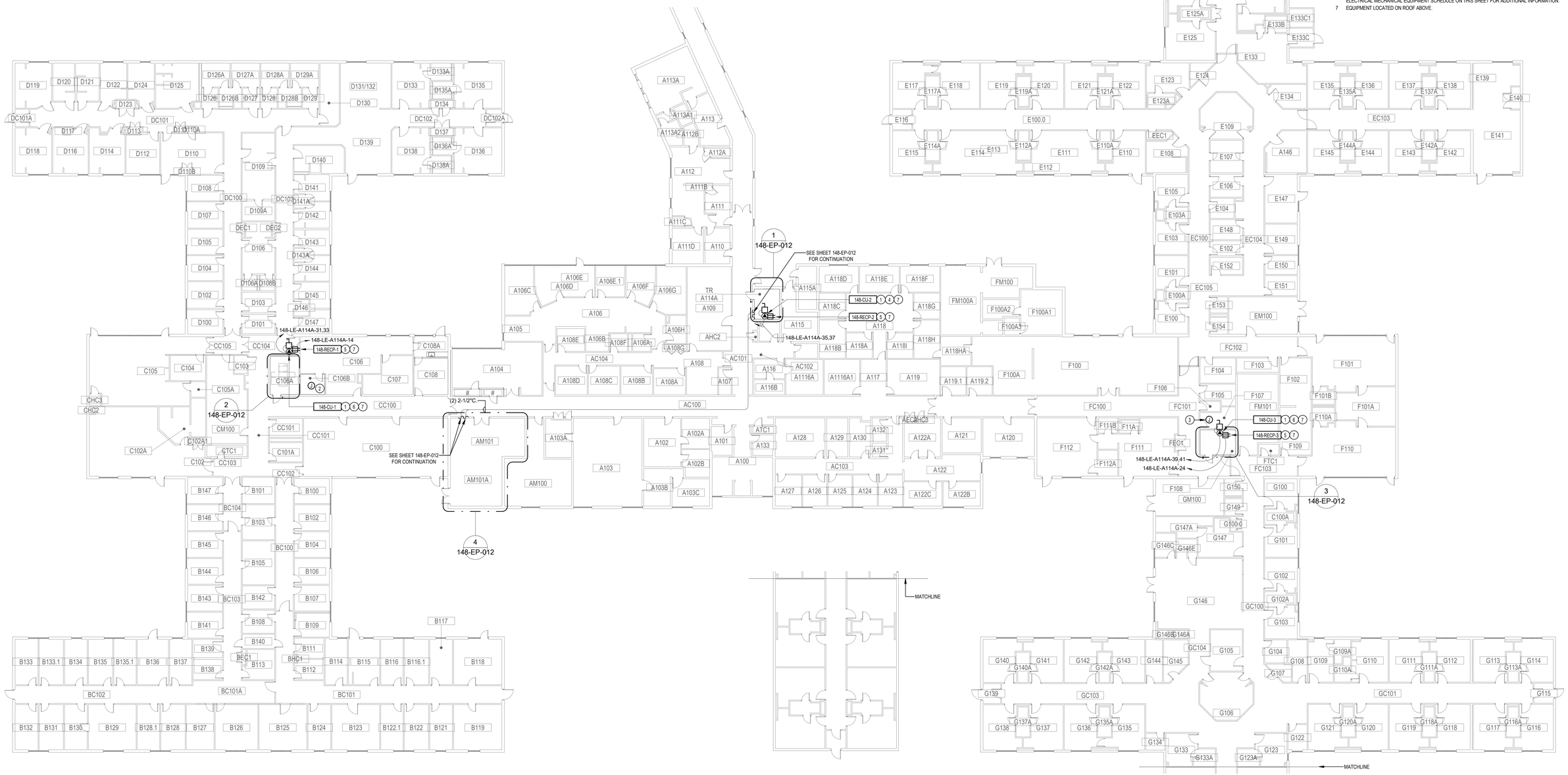
THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

GENERAL NOTES

1. COORDINATE EXACT LOCATION OF MECHANICAL AND TELECOMMUNICATIONS EQUIPMENT WITH THE CORRESPONDING DISCIPLINE'S DRAWINGS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMOPORARILY MOVING AND RETURNING FURNITURE, FIXTURES, AND EQUIPMENT WITHIN SPACES AS REQUIRED TO COMPLETE EACH DAYS WORK. THE VA WILL REMOVE OR SECURE PHI,, PPI, AND PERSONALY PROPERTY. COORDINATE THIS WORK WITH THE COR.
3. REFER TO ASSOCIATED TN SHEETS FOR RACK QUANTITES IN EXISTING AND NEW TR SPACES.
4. REFER TO ELECTRICAL FEEDER SCHEDULES ON SHEET 000-EG-001 FOR CONDUIT AND CONDUCTOR FEEDER REQUIREMENTS.
5. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
6. CONDUIT ROUTING SHOWN IS SCHEMATIC BY DESIGN. CONTRACTOR SHALL VERIFY FEASIBILITY PRIOR TO INSTALLATION.

KEYNOTES

1 CONTRACTOR TO PROVIDE NEW DISCONNECT WITH NEW FUSES FOR NEW MECHANICAL EQUIPMENT. SEE ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.
2 NEW LOCATION OF EXISTING FCU-1. EXTEND CONDUIT AND CONDUCTORS AS NECESSARY.
3 NEW LOCATION OF EXISTING VAV BOX. EXTEND CONDUIT AND CONDUCTORS AS NECESSARY.
4 CONTRACTOR TO PROVIDE CONDUIT AND CONDUCTORS FOR NEW INDOOR MECHANICAL UNIT. SEE ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.
5 CONTRACTOR TO PROVIDE WET-RATED CONVENIANCE RECEPTACLE MOUNTED BELOW DISCONNECT. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION AND WEATHER PROTECTION.
6 CONTRACTOR TO PROVIDE CONDUIT AND CONDUCTORS FOR NEW OUTDOOR MECHANICAL UNIT. SEE ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.
7 EQUIPMENT LOCATED ON ROOF ABOVE.



1 ELECTRICAL REMODEL PLAN - BLDG 148 FIRST FLOOR

1/16" = 1'-0"

Revisions:	Date:

CONSULTANT
ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD
A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

ADAM EDWARD GODDIN — STATE OF WASHINGTON — 49709 — REGISTERED PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: ELECTRICAL REMODEL PLAN - FIRST FLOOR	PHASE: 100% CONSTRUCTION DOCUMENTS	PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES	PROJECT NUMBER: 568-21-701
APPROVED: Project Director: FOR OFFICIAL USE ONLY (FOUO)	FLS: FULLY SPRINKLERED	LOCATION: FORT MEADE, SOUTH DAKOTA	BUILDING NUMBER: 148
		ISSUE DATE: 11/05/2024 / CHECKED BY: MER / DRAWN BY: AJW	DRAWING NUMBER: 148-EP-011

VA FORM 08 - 6231

BLDG 148 - EQUIPMENT SCHEDULE

EQUIPMENT TAG	RATED VOLTAGE	VOLTAGE PHASE	HP	KW	FLA	MCA	MOCP	# PARALLEL CONDUCTORS	BRANCH CIRCUIT RACEWAY	BRANCH CIRCUIT PHASE	BRANCH CIRCUIT N	BRANCH CIRCUIT G	DISCONNECT SIZE	DISCONNECT FUSE	NOTES
MECHANICAL EQUIPMENT															
148-IU-1	208	1	-	-	0.3	14.0	15	-	3/4"	2#12	-	#12	-	-	4
148-IU-2	208	1	-	-	0.3	14.0	15	-	3/4"	2#12	-	#12	-	-	4
148-IU-3	208	1	-	-	0.3	14.0	15	-	3/4"	2#12	-	#12	-	-	4
148-OU-1	208	1	-	-	-	24.0	35	-	3/4"	2#8	-	#10	60	35	1
148-OU-2	208	1	-	-	-	24.0	35	-	3/4"	2#8	-	#10	60	35	1
148-OU-3	208	1	-	-	-	24.0	35	-	3/4"	2#8	-	#10	60	35	1
TELECOMMUNICATIONS EQUIPMENT															
RK-A114A-1A	208	3	-	10.00	-	-	30	-	3/4"	3#10	1#10	#10	-	-	3
RK-A114A-1B	208	3	-	10.00	-	-	30	-	3/4"	3#10	1#10	#10	-	-	3
RK-C106A-1A	208	3	-	10.00	-	-	30	-	3/4"	3#10	1#10	#10	-	-	3
RK-C106A-1B	208	3	-	10.00	-	-	30	-	3/4"	3#10	1#10	#10	-	-	3
RK-F108-1A	208	3	-	5.00	-	-	20	-	3/4"	3#12	1#12	#12	-	-	2
RK-F108-1B	208	3	-	5.00	-	-	20	-	3/4"	3#12	1#12	#12	-	-	2

NOTES
1. PROVIDE NEW DISCONNECT.
2. PROVIDE NEMA L21-20R INTERLOCKING RECEPTACLE.
3. PROVIDE NEMA L21-30R INTERLOCKING RECEPTACLE.
4. PROVIDE NEW MOTOR-RATED SWITCH.

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	MODEL #	LAMP TYPE	CRI	DELIVERED LUMENS	COLOR TEMP	INPUT WATTS	FINISH
S1	LED STRIP LIGHT FIXTURE, LENSED, WHITE HOUSING, PROVIDE WITH E10WLCP EM DRIVER WHERE NOTED AS EMERGENCY ON PLANS.	LITHONIA	#ZL1N-L48-7000LM-FST-MVOLT-40K-80CRI-WH (E10WLCP)	LED	80	6,785	4000K	52	WHITE

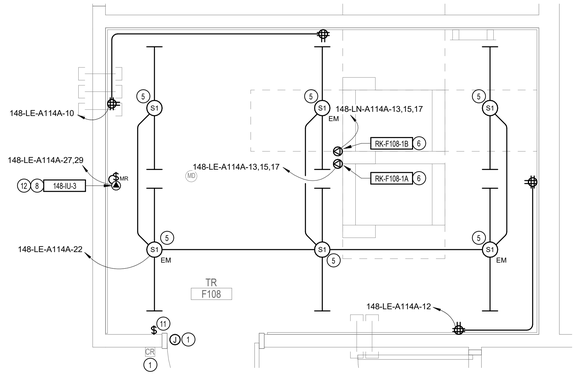
NOTES:

GENERAL NOTES

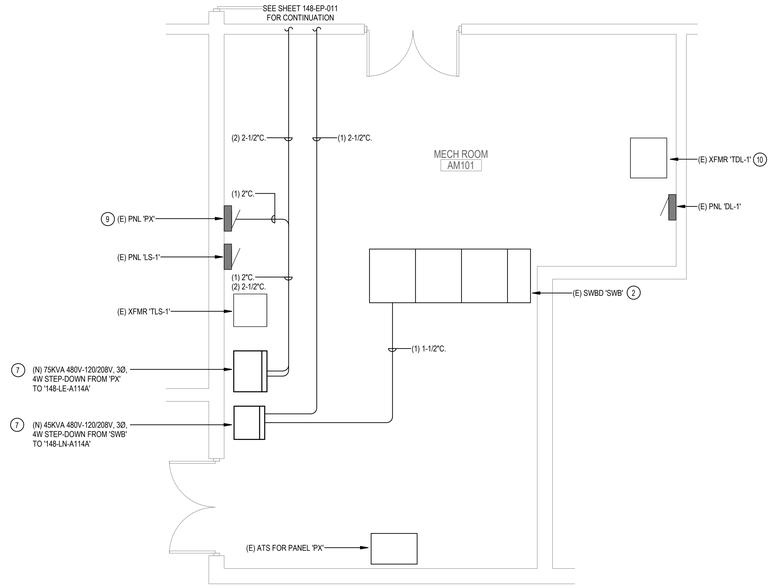
1. COORDINATE EXACT LOCATION OF MECHANICAL AND TELECOMMUNICATIONS EQUIPMENT WITH THE CORRESPONDING DISCIPLINE'S DRAWINGS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMOPORARILY MOVING AND RETURNING FURNITURE, FIXTURES, AND EQUIPMENT WITHIN SPACES AS REQUIRED TO COMPLETE EACH DAYS WORK. THE VA WILL REMOVE OR SECURE PHI,, PPI, AND PERSONALY PROPERTY. COORDINATE THIS WORK WITH THE COR.
3. REFER TO ASSOCIATED TN SHEETS FOR RACK QUANTITES IN EXISTING AND NEW TR SPACES.
4. REFER TO ELECTRICAL FEEDER SCHEDULES ON SHEET 000-EG-001 FOR CONDUIT AND CONDUCTOR FEEDER REQUIREMENTS.
5. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
6. CONDUIT ROUTING SHOWN IS SCHEMATIC BY DESIGN. CONTRACTOR SHALL VERIFY FEASIBILITY PRIOR TO INSTALLATION.

KEYNOTES

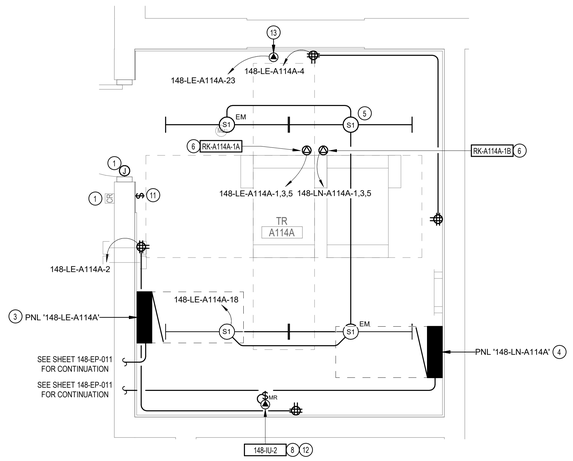
1 CONTRACTOR TO PROVIDE RACEWAY AND BOXES FOR ACCESS CONTROLS SYSTEM COMPONENTS.
2 USE EXISTING 250A SPARE BREAKER IN EXISTING SWITCHBOARD 'SWB'. ADJUST BREAKER TRIP RATING TO 150A. REPLACE PLUG TRIP SENSOR TO 125A.
3 CONTRACTOR TO PROVIDE NEW 208Y/120V, 225A, PANELBOARD. CONTRACTOR TO PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION. REFER TO FEEDER SCHEDULE ON 000-EG-001 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
4 CONTRACTOR TO PROVIDE NEW 208Y/120V, 100A, PANELBOARD. CONTRACTOR TO PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION. REFER TO FEEDER SCHEDULE ON 000-EG-001 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
5 CONTRACTOR TO PROVIDE NEW LIGHT FIXTURE. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION. REFER TO LIGHT FIXTURE SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION AMD REQUIREMENTS.
6 CONTRACTOR TO PROVIDE NEW L21-30R RECEPTACLE FOR NEW RACK POWER. RECEPTACLE TO BE MOUNTED DIRECTLY ON CABLE TRAY.
7 CONTRACTOR TO PROVIDE NEW TRANSFORMER WITH SIZE AS INDICATED. PROVIDE CONDUIT, CONDUTOR, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION.
8 CONTRACTOR TO PROVIDE NEW DISCONNECT WITH NEW FUSES FOR NEW MECHANICAL EQUIPMENT. SEE ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.
9 CONTRACTOR TO PROVIDE NEW 175A SUBFEED BREAKER IN EXISTING SPACE NEXT TO MCCX3 TO FEED NEW TRANSFORMER FOR BRANCH PANEL '148-LE-A114A'. MATCH EXISTING TYPE AND MANUFACTURER.
10 PROVIDE LABEL ON EXISTING TRANSFORMER TO READ: TRANSFORMER IS DERATED TO 75KVA AND SHALL NOT EXCEED 80A OF CONTINUOUS LOAD.
11 CONTRACTOR TO PROVIDE NEW LIGHT SWITCH. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION.
12 INDOOR MECHANICAL UNIT FED BY OUTDOOR MECHANICAL UNIT. PROVIDE NEW MOTOR-RATED SWITCH AND ALL CONDUIT AND CONDUCTORS FROM CONTROLS TO INDOOR UNIT AS REQUIRED FOR COMPLETE OPERATION.
13 CONTRACTOR TO PROVIDE CONNECTION TO DRAIN PAN PUMP. PROVIDE CONDUITS AND CONDUCTORS AS REQUIRED FOR COMPLETE OPERATION.



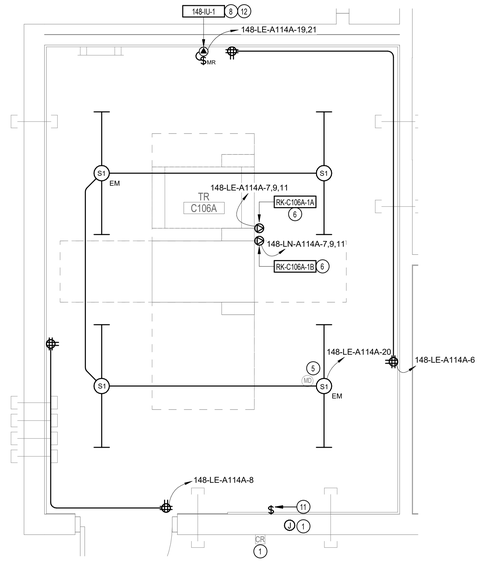
3 ENLARGED ROOM - F108 ELECTRICAL REMODEL
1/2" = 1'-0"



4 ENLARGED ROOM - A101 ELECTRICAL REMODEL
1/4" = 1'-0"



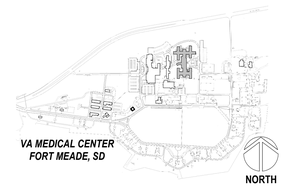
1 ENLARGED ROOM - A114A ELECTRICAL REMODEL
1/2" = 1'-0"



2 ENLARGED ROOM - C106A ELECTRICAL REMODEL
1/2" = 1'-0"

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

PROJECT KEY PLAN



VA MEDICAL CENTER
FORT MEADE, SD

Revisions:	Date:

CONSULTANT
ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD
A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS - ENGINEERS

STAMP
REGISTERED PROFESSIONAL ENGINEER — STATE OF WASHINGTON

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: ELECTRICAL REMODEL PLAN - ENLARGED ROOMS	PHASE: 100% CONSTRUCTION DOCUMENTS	PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES	PROJECT NUMBER: 568-21-701
			BUILDING NUMBER: 148
APPROVED: Project Director	FLS	LOCATION: FORT MEADE, SOUTH DAKOTA	DRAWING NUMBER: 148-EP-012
FOR OFFICIAL USE ONLY (FOUO)	FULLY SPRINKLERED	ISSUE DATE: 11/05/2024 / CHECKED BY: MER / DRAWN BY: AJW	

VA FORM 08 - 6231

GENERAL DEMOLITION NOTES

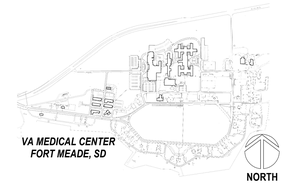
1. CONTRACTOR SHALL COORDINATE ALL OUTAGES WITH THE COR PRIOR TO BEGINNING WORK. GREAT CARE SHALL BE TAKEN TO MINIMIZE OUTAGE DURATION TO SHORTEST EXTENT POSSIBLE. NO DEMOLITION SHALL OCCUR ON THE UPS SYSTEM, LIFE SAFETY SYSTEM, TELECOMMUNICATIONS SYSTEM, OR ANY OTHER CRITICAL SYSTEM UNTIL THE NEW/REPLACEMENT SYSTEMS ARE IN PLACE AND READY FOR SWITCHOVER.
2. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM RECORD DRAWINGS AND/OR A NON-DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.
3. THE COR SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS. THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A WAREHOUSE AS DIRECTED BY THE COR. THE CONTRACTOR SHALL DISPOSE OF, OFF SITE, ALL UNWANTED MATERIALS.
4. DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
5. COORDINATE WITH THE OTHER DISCIPLINE DRAWINGS FOR AREAS OF DEMOLITION AND NEW WORK. PROVIDE MINOR RELOCATION OF LIGHT FIXTURES AND DEVICES TO ACCOMMODATE NEW MECHANICAL AND TELECOM EQUIPMENT LOCATIONS.
6. FOR WALL/CEILINGS SCHEDULED TO BE DEMOLISHED, DEMOLISH ALL CONDUIT, WIRE, DEVICES, BOXES, ETC. BACK TO THE EXTENT PRACTICAL TO ACCOMMODATE DEMOLITION. RELOCATE EXISTING LIGHT FIXTURES, DEVICES, CONDUIT, AND WIRE AS REQUIRED. PROVIDE EXTENSION OF CONDUIT AND WIRE AS REQUIRED TO ACCOMMODATE RELOCATED ITEMS.
7. FOR THE RENOVATED TELECOMMUNICATIONS ROOMS WITH NEW PAINTED PLYWOOD WALLS, CONTRACTOR SHALL DISCONNECT AND TEMPORARILY REMOVE ALL ELECTRICAL DEVICES, BOXES, CONDUIT, AND WIRE TO ALLOW FOR PLYWOOD INSTALLATION. REINSTALL ALL DEVICES BACK IN SAME LOCATIONS AND PROVIDE BOX EXTENSIONS, CIRCUIT EXTENSIONS, ETC. AS REQUIRED TO ACCOMMODATE RENOVATION.
8. COORDINATE WITH THE OTHER DISCIPLINE DRAWINGS FOR AREAS OF DEMOLITION AND NEW WORK.
9. LIGHTING AND RECEPTACLES SHALL REMAIN IN EXISTING TELECOM ROOMS. NO DEMOLITION UNLESS OTHERWISE NOTED

KEYNOTES

1 ELECTRICAL DEMOLITION PLAN - BLDG T171 FIRST FLOOR
1/4" = 1'-0"

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

PROJECT KEY PLAN



VA MEDICAL CENTER
FORT MEADE, SD

NORTH

Revisions:	Date:

CONSULTANT

ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD

A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, P.E.

GDM ARCHITECTS • ENGINEERS

STAMP

EDWARD STATE OF WASHINGTON 21722 REGISTERED PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: ELECTRICAL DEMOLITION PLAN - FIRST FLOOR

APPROVED: Project Director

FOR OFFICIAL USE ONLY (FOUO)

PHASE: 100% CONSTRUCTION DOCUMENTS

FLS: FULLY SPRINKLERED

PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES

LOCATION: FORT MEADE, SOUTH DAKOTA

ISSUE DATE: 11/05/2024 | CHECKED BY: MER | DRAWN BY: AJW

PROJECT NUMBER: 568-21-701

BUILDING NUMBER: T171

DRAWING NUMBER: T171-ED-011

VA FORM 08 - 6231

BLDG T171 - EQUIPMENT SCHEDULE															
EQUIPMENT TAG	RATED VOLTAGE	VOLTAGE PHASE	HP	KW	FLA	MCA	MOCP	# PARALLEL CONDUCTORS	BRANCH CIRCUIT				DISCONNECT		NOTES
									RACEWAY	PHASE	N	G	SIZE	FUSE	
MECHANICAL EQUIPMENT															
T171-IU-1	208	1	-	-	0.3	14.0	15	-	3/4"	2#12	-	#12	-	-	3
T171-OU-1	208	1	-	-	-	11.0	15	-	3/4"	2#12	-	#12	30	15	1
TELECOMMUNICATIONS EQUIPMENT															
RK-101B-1A	120	1	-	2.88	-	-	30	-	3/4"	2#10	-	#10	-	-	2
RK-101B-1B	120	1	-	2.88	-	-	30	-	3/4"	2#10	-	#10	-	-	2

NOTES

1. PROVIDE NEW DISCONNECT.
2. PROVIDE NEMA L5-30 RECEPTACLE.
3. PROVIDE NEW MOTOR-RATED SWITCH.

GENERAL NOTES

6. CONDUIT ROUTING SHOWN IS SCHEMATIC BY DESIGN. CONTRACTOR SHALL VERIFY FEASIBILITY PRIOR TO INSTALLATION.
1. COORDINATE EXACT LOCATION OF MECHANICAL AND TELECOMMUNICATIONS EQUIPMENT WITH THE CORRESPONDING DISCIPLINE'S DRAWINGS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMOPORARILY MOVING AND RETURNING FURNITURE, FIXTURES, AND EQUIPMENT WITHIN SPACES AS REQUIRED TO COMPLETE EACH DAYS WORK. THE VA WILL REMOVE OR SECURE PHI,, PPI, AND PERSONALY PROPERTY. COORDINATE THIS WORK WITH THE COR.
3. REFER TO ASSOCIATED TN SHEETS FOR RACK QUANTITES IN EXISTING AND NEW TR SPACES.
4. REFER TO ELECTRICAL FEEDER SCHEDULES ON SHEET 000-EG-001 FOR CONDUIT AND CONDUCTOR FEEDER REQUIREMENTS.
5. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

KEYNOTES

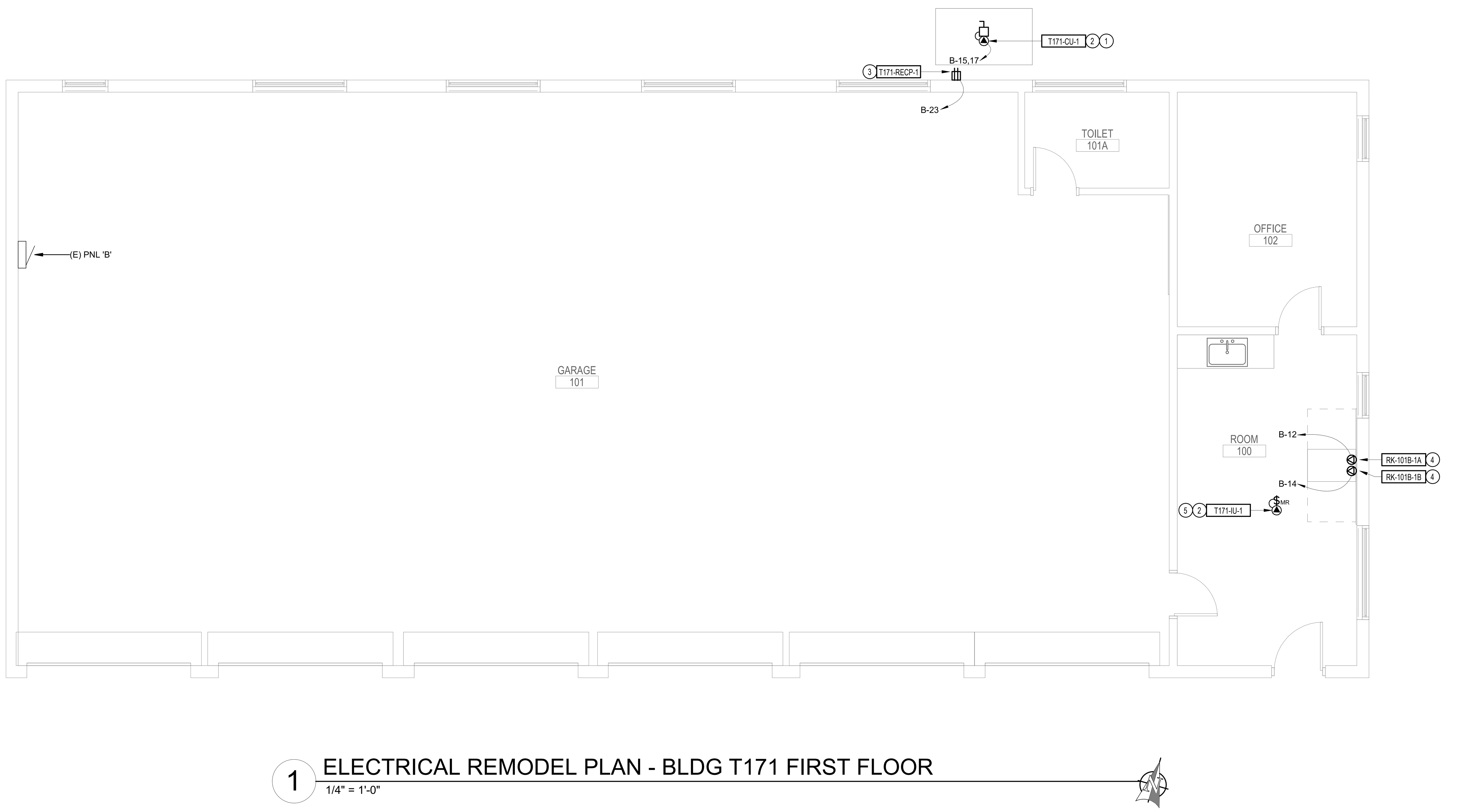
1 CONTRACTOR TO PROVIDE CONDUIT AND CONDUCTORS FOR NEW OUTDOOR MECHANICAL UNIT. SEE ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.

2 CONTRACTOR TO PROVIDE NEW DISCONNECT WITH NEW FUSES FOR NEW MECHANICAL EQUIPMENT. SEE ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.

3 CONTRACTOR TO PROVIDE WET-RATED CONVENIANCE RECEPTACLE. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION AND WEATHER PROTECTION.

4 CONTRACTOR TO PROVIDE NEW L5-30 RECEPTACLE IN NEW JUNCTION BOX FOR NEW TELECOMMUNICATIONS ENCLOSURE UPS. ALIGN JUNCTION BOX TO ENCLOSURE 6"X6" CUTOUT BEHIND RACK. L5-30 RECEPTACLES TO BE MOUNTED IN SINGLE JUNCTION BOX UNLESS OTHERWISE NOTED.

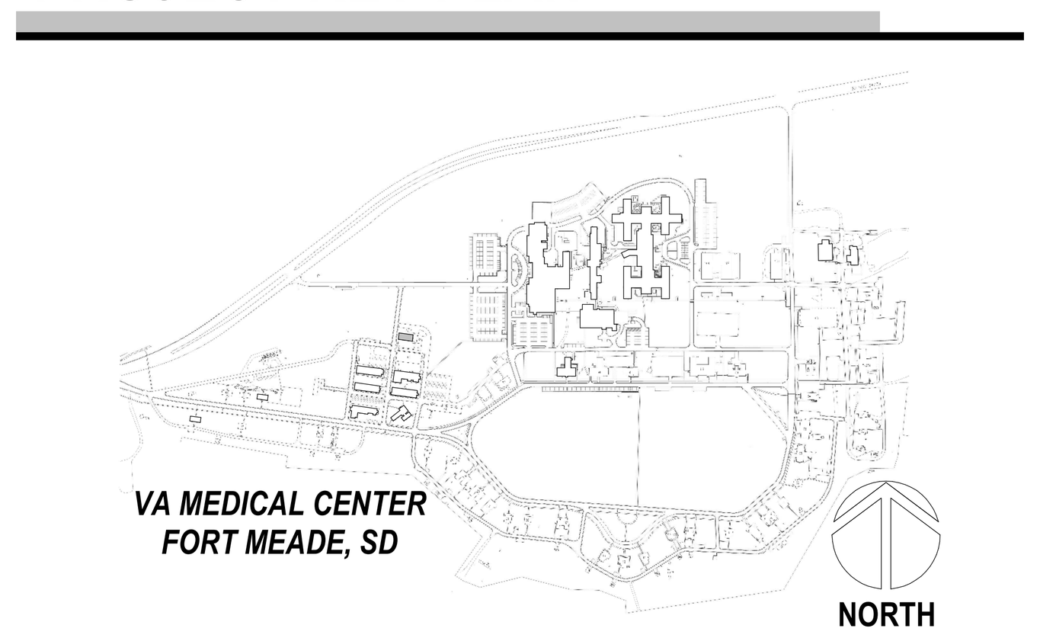
5 INDOOR MECHANICAL UNIT FED BY OUTDOOR MECHANICAL UNIT. PROVIDE NEW MOTOR-RATED SWITCH AND ALL CONDUIT AND CONDUCTORS FROM CONTROLS TO INDOOR UNIT AS REQUIRED FOR COMPLETE OPERATION.



1 ELECTRICAL REMODEL PLAN - BLDG T171 FIRST FLOOR

1/4" = 1'-0"

PROJECT KEY PLAN



THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

Revisions:	Date:

CONSULTANT

ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD

A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, P.E.

GDM ARCHITECTS • ENGINEERS

STAMP

MICHAEL EDWARD REBSTOCK — STATE OF WASHINGTON — 49709 REGISTERED PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: ELECTRICAL REMODEL PLAN - FIRST FLOOR

APPROVED: Project Director

FOR OFFICIAL USE ONLY (FOUO)

PHASE: 100% CONSTRUCTION DOCUMENTS

FLS: FULLY SPRINKLERED

PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES

LOCATION: FORT MEADE, SOUTH DAKOTA

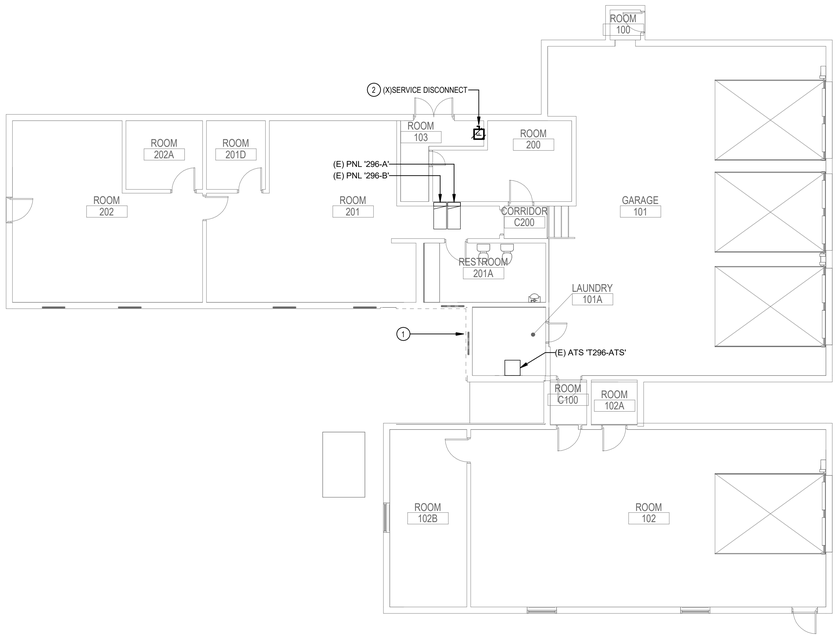
ISSUE DATE: 11/05/2024 | CHECKED BY: MER | DRAWN BY: AJW

PROJECT NUMBER: 568-21-701

BUILDING NUMBER: T171

DRAWING NUMBER: T171-EP-011

VA FORM 08 - 6231



1 ELECTRICAL DEMOLITION PLAN - BLDG T296 FIRST FLOOR

1/8" = 1'-0"

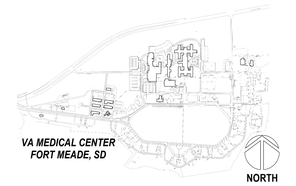
GENERAL DEMOLITION NOTES

1. CONTRACTOR SHALL COORDINATE ALL OUTAGES WITH THE COR PRIOR TO BEGINNING WORK. GREAT CARE SHALL BE TAKEN TO MINIMIZE OUTAGE DURATION TO SHORTEST EXTENT POSSIBLE. NO DEMOLITION SHALL OCCUR ON THE UPS SYSTEM, LIFE SAFETY SYSTEM, TELECOMMUNICATIONS SYSTEM, OR ANY OTHER CRITICAL SYSTEM UNTIL THE NEW/REPLACEMENT SYSTEMS ARE IN PLACE AND READY FOR SWITCHOVER.
2. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM RECORD DRAWINGS AND/OR A NON-DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.
3. THE COR SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS. THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A WAREHOUSE AS DIRECTED BY THE COR. THE CONTRACTOR SHALL DISPOSE OF, OFF SITE, ALL UNWANTED MATERIALS.
4. DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
5. COORDINATE WITH THE OTHER DISCIPLINE DRAWINGS FOR AREAS OF DEMOLITION AND NEW WORK. PROVIDE MINOR RELOCATION OF LIGHT FIXTURES AND DEVICES TO ACCOMMODATE NEW MECHANICAL AND TELECOM EQUIPMENT LOCATIONS.
6. FOR WALL/CEILINGS SCHEDULED TO BE DEMOLISHED, DEMOLISH ALL CONDUIT, WIRE, DEVICES, BOXES, ETC. BACK TO THE EXTENT PRACTICAL TO ACCOMMODATE DEMOLITION. RELOCATE EXISTING LIGHT FIXTURES, DEVICES, CONDUIT, AND WIRE AS REQUIRED. PROVIDE EXTENSION OF CONDUIT AND WIRE AS REQUIRED TO ACCOMMODATE RELOCATED ITEMS.
7. FOR THE RENOVATED TELECOMMUNICATIONS ROOMS WITH NEW PAINTED PLYWOOD WALLS, CONTRACTOR SHALL DISCONNECT AND TEMPORARILY REMOVE ALL ELECTRICAL DEVICES, BOXES, CONDUIT, AND WIRE TO ALLOW FOR PLYWOOD INSTALLATION. REINSTALL ALL DEVICES BACK IN SAME LOCATIONS AND PROVIDE BOX EXTENSIONS, CIRCUIT EXTENSIONS, ETC. AS REQUIRED TO ACCOMMODATE RENOVATION.
8. COORDINATE WITH THE OTHER DISCIPLINE DRAWINGS FOR AREAS OF DEMOLITION AND NEW WORK.
9. LIGHTING AND RECEPTACLES SHALL REMAIN IN EXISTING TELECOM ROOMS. NO DEMOLITION UNLESS OTHERWISE NOTED

KEYNOTES

1. EXISTING CONDUITS TO BE RELOCATED TO FACILITATE TR ADDITION. CONTRACTOR TO FIELD VERIFY QUANTITIES AND ASCERTAIN EXTENTS OF DEMOLITION AND RELOCATION PRIOR TO COMMENCEMENT OF WORK. COORDINATE EXTENT AND SCOPE WITH COR.
2. EXISTING 200A SERVICE FUSED DISCONNECT TO BE REMOVED. CONNECT A 50KW PORTABLE GENERATOR FOR TEMPORARY POWER PRIOR TO DEMOLITION. COORDINATE WITH VA PRIOR TO DEMOLITION FOR SCHEDULED OUTAGES.

PROJECT KEY PLAN



VA MEDICAL CENTER
FORT MEADE, SD

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

Revisions:	Date:

CONSULTANT

ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD

A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

ADAM EDWARD GODDIN — STATE OF WASHINGTON — 21702 — REGISTERED PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: ELECTRICAL DEMOLITION PLAN - FIRST FLOOR	PHASE: 100% CONSTRUCTION DOCUMENTS	PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES	PROJECT NUMBER: 568-21-701
			BUILDING NUMBER: T296
APPROVED: Project Director: FOR OFFICIAL USE ONLY (FOUO)	FLS: FULLY SPRINKLERED	LOCATION: FORT MEADE, SOUTH DAKOTA	DRAWING NUMBER: T296-ED-011
		ISSUE DATE: 11/05/2024 / CHECKED BY: MER / DRAWN BY: AJW	

VA FORM 08 - 6231

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	MODEL #	LAMP TYPE	CRI	DELIVERED LUMENS	COLOR TEMP	INPUT WATTS	FINISH
S1	LED STRIP LIGHT FIXTURE, LENSED, WHITE HOUSING, PROVIDE WITH E10WLCP EM DRIVER WHERE NOTED AS EMERGENCY ON PLANS.	LITHONIA	#2L1N-L48-7000LM-FST-MVOLT-40K-80CRI-WH (E10WLCP)	LED	80	6,785	4000K	52	WHITE

NOTES:

BLDG T296 - EQUIPMENT SCHEDULE

EQUIPMENT TAG	RATED VOLTAGE	VOLTAGE PHASE	HP	KW	FLA	MCA	MOCP	# PARALLEL CONDUCTORS	BRANCH CIRCUIT RACEWAY	BRANCH CIRCUIT PHASE	BRANCH CIRCUIT N	BRANCH CIRCUIT G	DISCONNECT SIZE	DISCONNECT FUSE	NOTES
MECHANICAL EQUIPMENT															
T296-IU-1	208	1	-	-	0.3	14.0	15	-	3/4"	2#12	-	#12	-	-	3
T296-OU-1	208	1	-	-	-	24.0	35	-	3/4"	2#8	-	#10	60	35	1
TELECOMMUNICATIONS EQUIPMENT															
RK-104-1A	208	3	-	5.00	-	-	20	-	3/4"	3#12	1#12	#12	-	-	2
RK-104-1B	208	3	-	5.00	-	-	20	-	3/4"	3#12	1#12	#12	-	-	2

NOTES

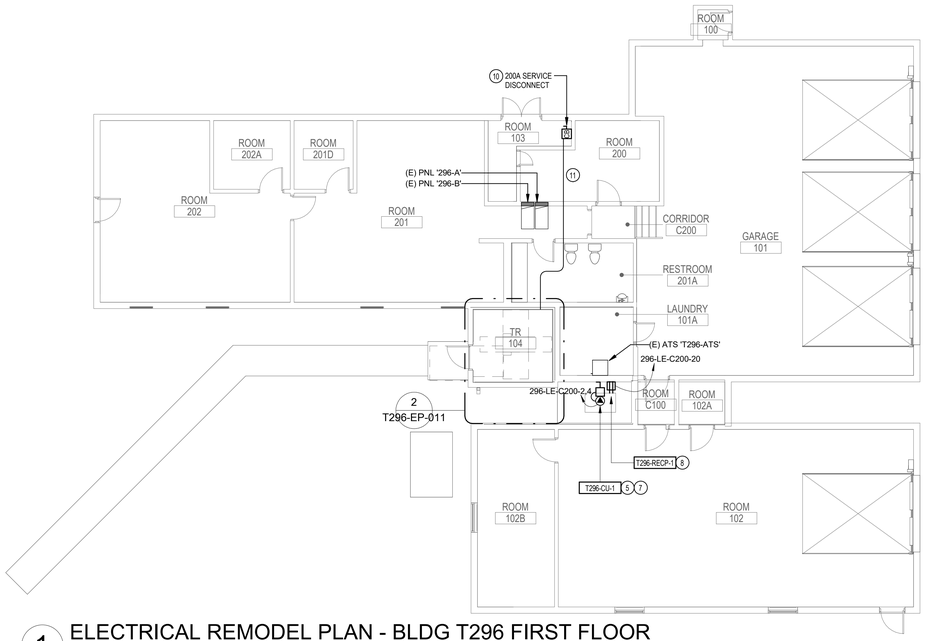
1. PROVIDE NEW DISCONNECT.
2. PROVIDE NEMA L21-20R INTERLOCKING RECEPTACLE.
3. PROVIDE NEW MOTOR-RATED SWITCH.

GENERAL NOTES

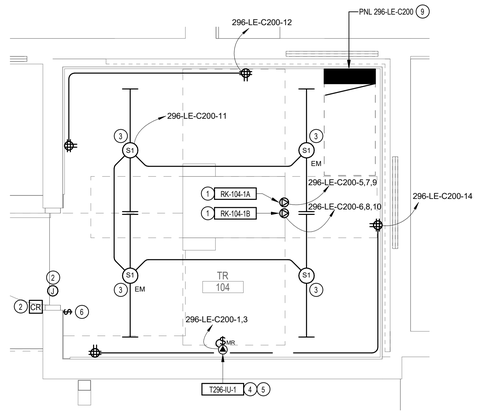
1. COORDINATE EXACT LOCATION OF MECHANICAL AND TELECOMMUNICATIONS EQUIPMENT WITH THE CORRESPONDING DISCIPLINE'S DRAWINGS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMOPORARILY MOVING AND RETURNING FURNITURE, FIXTURES, AND EQUIPMENT WITHIN SPACES AS REQUIRED TO COMPLETE EACH DAYS WORK. THE VA WILL REMOVE OR SECURE PHI,, PPI, AND PERSONALY PROPERTY. COORDINATE THIS WORK WITH THE COR.
3. REFER TO ASSOCIATED TN SHEETS FOR RACK QUANTITES IN EXISTING AND NEW TR SPACES.
4. REFER TO ELECTRICAL FEEDER SCHEDULES ON SHEET 000-EG-001 FOR CONDUIT AND CONDUCTOR FEEDER REQUIREMENTS.
5. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
6. CONDUIT ROUTING SHOWN IS SCHEMATIC BY DESIGN. CONTRACTOR SHALL VERIFY FEASIBILITY PRIOR TO INSTALLATION.

KEYNOTES

1 CONTRACTOR TO PROVIDE NEW L21-20R RECEPTACLE FOR NEW RACK POWER. RECEPTACLE TO BE MOUNTED DIRECTLY ON CABLE TRAY.
2 CONTRACTOR TO PROVIDE RACEWAY AND BOXES FOR ACCESS CONTROLS SYSTEM COMPONENTS.
3 CONTRACTOR TO PROVIDE NEW LIGHT FIXTURE. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION. REFER TO LIGHT FIXTURE SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION AMD REQUIREMENTS.
4 INDOOR MECHANICAL UNIT FED BY OUTDOOR MECHANICAL UNIT. PROVIDE NEW MOTOR-RATED SWITCH AND ALL CONDUIT AND CONDUCTORS FROM CONTROLS TO INDOOR UNIT AS REQUIRED FOR COMPLETE OPERATION.
5 CONTRACTOR TO PROVIDE NEW DISCONNECT WITH NEW FUSES FOR NEW MECHANICAL EQUIPMENT. SEE ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.
6 CONTRACTOR TO PROVIDE NEW LIGHT SWITCH. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION.
7 CONTRACTOR TO PROVIDE CONDUIT AND CONDUCTORS FOR NEW OUTDOOR MECHANICAL UNIT. SEE ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.
8 CONTRACTOR TO PROVIDE WET-RATED CONVENIANCE RECEPTACLE. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION AND WEATHER PROTECTION.
9 CONTRACTOR TO PROVIDE NEW 208Y/120V, 100A, PANELBOARD. CONTRACTOR TO PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION. REFER TO FEEDER SCHEDULE ON 000-EG-001 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
10 CONTRACTOR TO PROVIDE NEW 200A/3P, 100% RATED ENCLOSED CIRCUIT BREAKER FOR THE NEW SERVICE DISCONNECT. DISCONNECT TEMPORARY POWER AND RECONNECT EXISTING FEEDERS SERVING ATS. COORDINATE SHUTDOWN WITH VA PRIOR TO CONSTRUCTION. SEE ONE-LINE ON SHEET 296-EJ-001 FOR MORE INFORMATION.
11 PROVIDE 200A FEEDER FROM NEW SERVICE DISCONNECT TO PANEL 296-LE-C200. SEE ONE-LINE ON SHEET 296-EJ-001 FOR MORE INFORMATION.



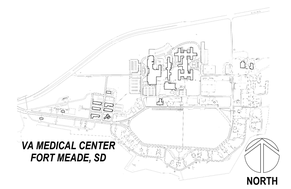
1 ELECTRICAL REMODEL PLAN - BLDG T296 FIRST FLOOR
1/8" = 1'-0"



2 ENLARGED ROOM - 104 ELECTRICAL REMODEL
1/2" = 1'-0"

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

PROJECT KEY PLAN



VA MEDICAL CENTER FORT MEADE, SD

NORTH

Revisions:	Date:

CONSULTANT
ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD
A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS - ENGINEERS

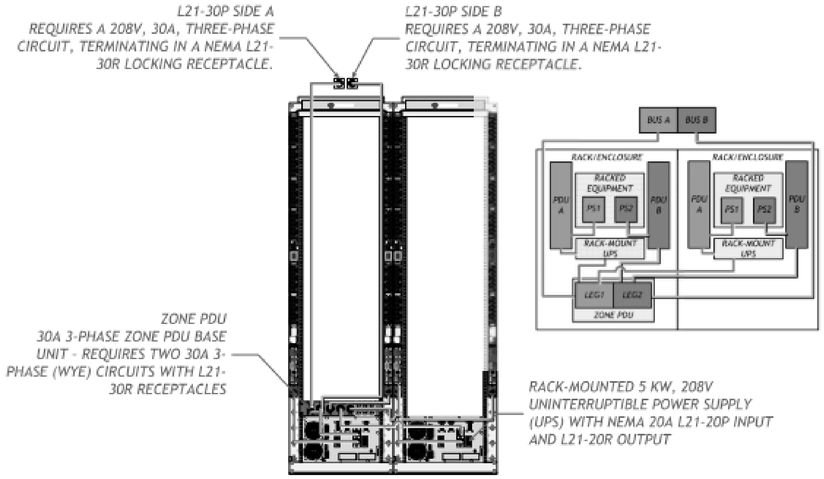
STAMP

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

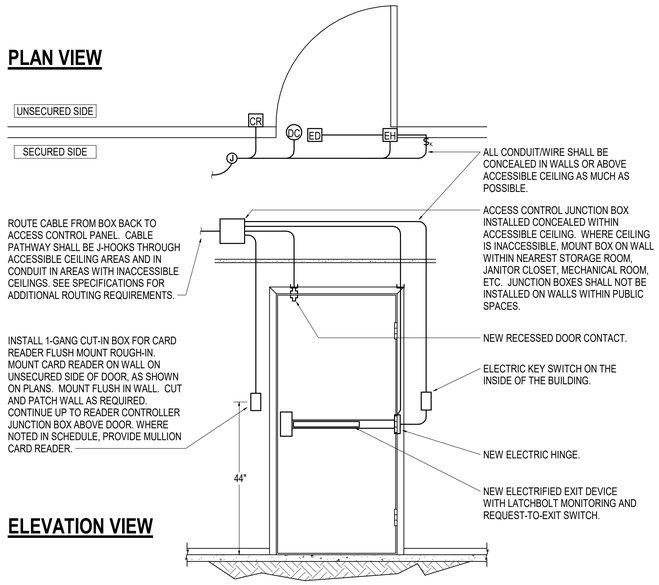
VA U.S. Department of Veterans Affairs

DRAWING TITLE: ELECTRICAL REMODEL PLAN - FIRST FLOOR	PHASE: 100% CONSTRUCTION DOCUMENTS	PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES	PROJECT NUMBER: 568-21-701
			BUILDING NUMBER: T296
APPROVED: Project Director	FLS	LOCATION: FORT MEADE, SOUTH DAKOTA	DRAWING NUMBER: T296-EP-011
FOR OFFICIAL USE ONLY (FOUO)	FULLY SPRINKLERED	ISSUE DATE: 11/05/2024 / CHECKED BY: MER / DRAWN BY: AJW	

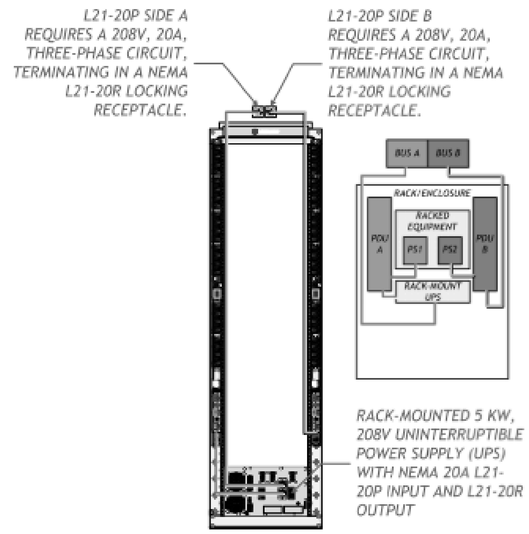
VA FORM 08 - 6231



3 TYPICAL POWER ELEVATION AND SCHEMATIC FOR A TWO RACK TR
NOT TO SCALE



1 CONTROLLED DOOR- SINGLE DOOR, ELECTRIFIED EXIT DEVICE
NOT TO SCALE



2 TYPICAL POWER ELEVATION AND SCHEMATIC FOR A ONE RACK TR
NOT TO SCALE

Revisions:	Date:

CONSULTANT
ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD
A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS · ENGINEERS

STAMP

EDWARD GODDIN — STATE OF WASHINGTON — 49709 — REGISTERED PROFESSIONAL ENGINEER

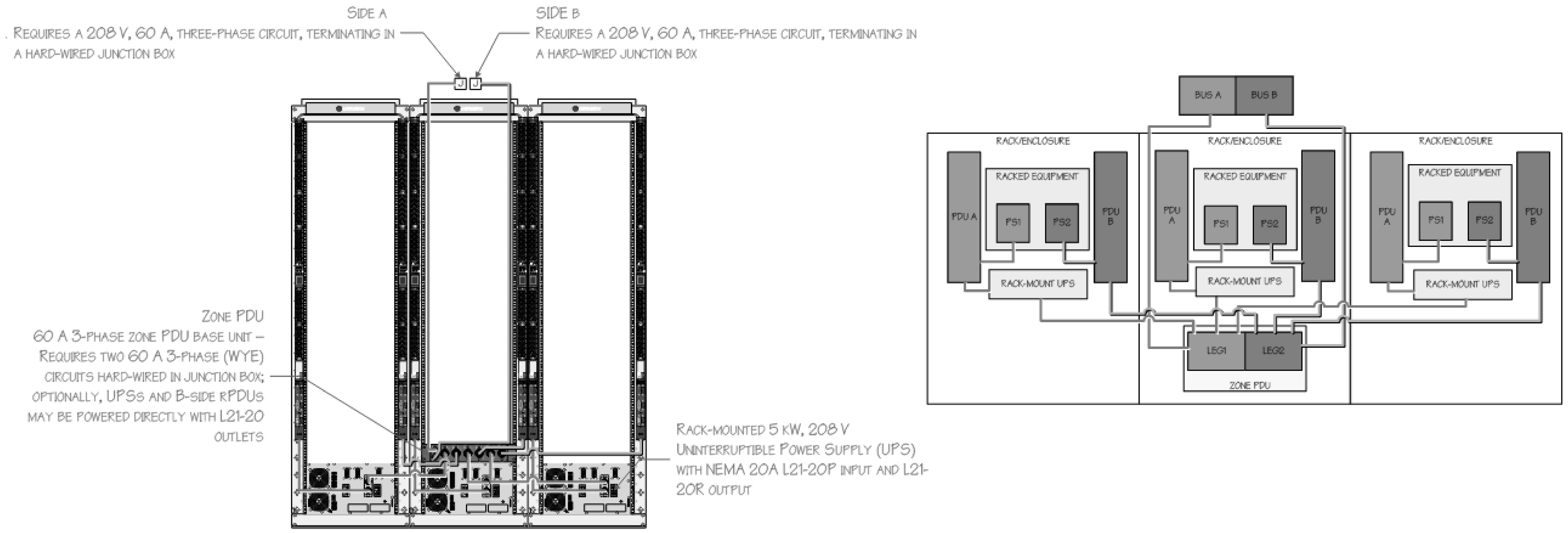
OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: POWER AND ELEVATION SCHEMATIC FOR TR RACK
PHASE: 100% CONSTRUCTION DOCUMENTS
PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES
PROJECT NUMBER: 568-21-701
BUILDING NUMBER: ---
APPROVED: Project Director
FLS: FULLY SPRINKLERED
LOCATION: FORT MEADE, SOUTH DAKOTA
ISSUE DATE: 11/05/2024
CHECKED BY: MER
DRAWN BY: AJW
DRAWING NUMBER: 000-EK-001

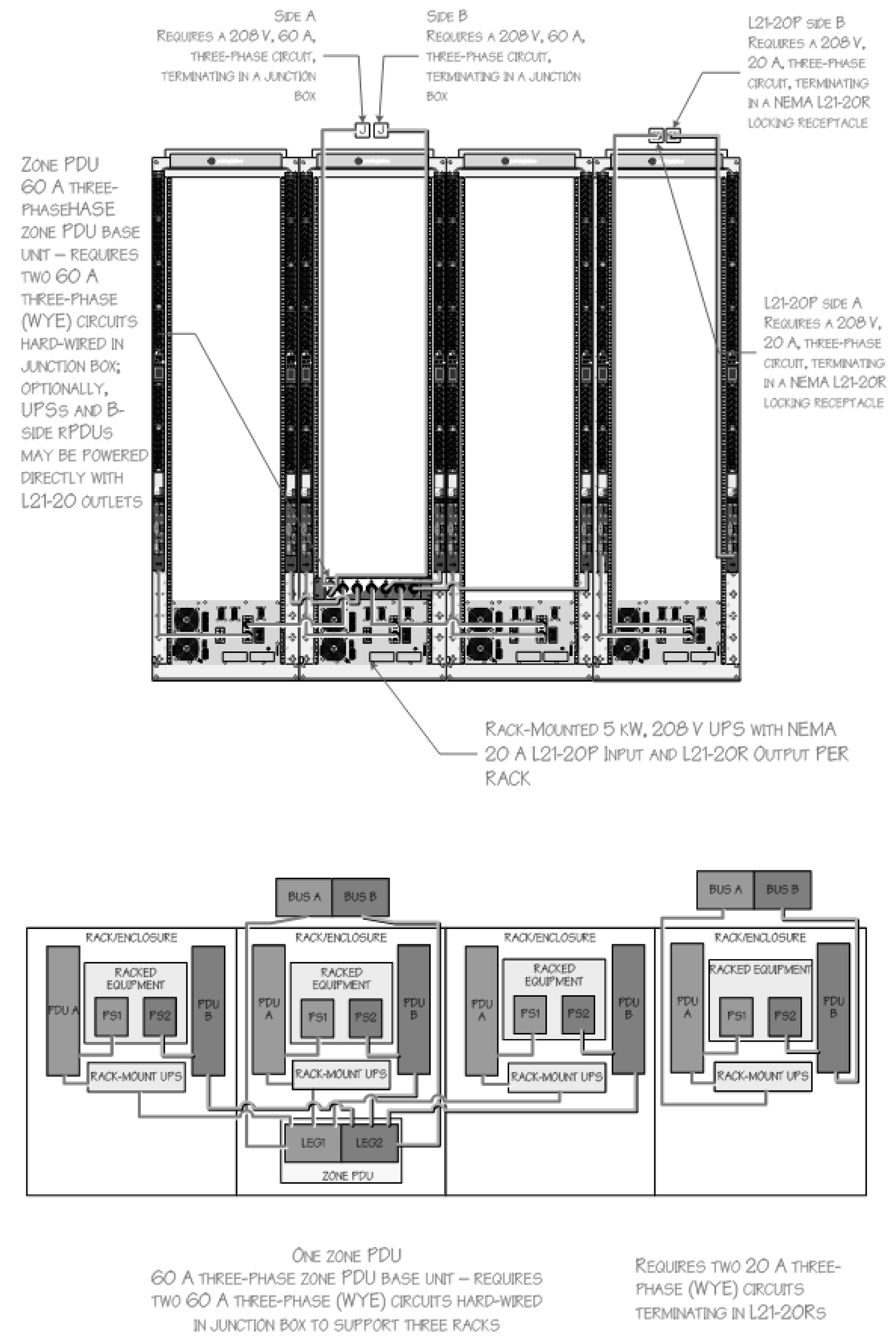
FOR OFFICIAL USE ONLY (FOUO)

VA FORM 08 - 6231



1 TYPICAL POWER ELEVATION AND SCHEMATIC FOR A THREE RACK TR

12" = 1'-0"



2 TYPICAL POWER ELEVATION AND SCHEMATIC FOR A FOUR RACK TR

12" = 1'-0"

Revisions:	Date:

CONSULTANT

ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD

A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: POWER AND ELEVATION SCHEMATIC FOR TR RACK

APPROVED: Project Director

FOR OFFICIAL USE ONLY (FOUO)

PHASE: 100% CONSTRUCTION DOCUMENTS

FLS: FULLY SPRINKLERED

PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES

LOCATION: FORT MEADE, SOUTH DAKOTA

ISSUE DATE	CHECKED BY	DRAWN BY
11/05/2024	MER	AJW

PROJECT NUMBER: 568-21-701

BUILDING NUMBER: ---

DRAWING NUMBER: 000-EK-002

VA FORM 08 - 6231

GENERAL DEMOLITION NOTES

1. VISIT AND EXAMINE THE SITE PRIOR TO INITIATION OF WORK TO ASCERTAIN THE CONDITIONS AND LIMITS OF DEMOLITION AND CONSTRUCTION.
2. COORDINATE ANY INTERRUPTIONS OF SERVICE FOR EXISTING EQUIPMENT WITH COR PRIOR TO DEMOLITION OR CONSTRUCTION.

DEMOLITION KEYNOTES

(D1) DEMOLISH EXISTING 40A/2P BREAKER AND EXISTING 20A/1P BREAKERS IN EXISTING SPACE 14,16,18 TO ALLOW FOR INSTALLATION OF NEW SUB-FEED BREAKER TO FEED NEW PANEL. FEEDERS TO REMAIN TO BE RE-CIRCUITED TO NEW PANEL.SEE PANEL SCHEDULE ON SHEET 040-EJ-002 FOR ADDITIONAL INFORMATION.

GENERAL NOTES

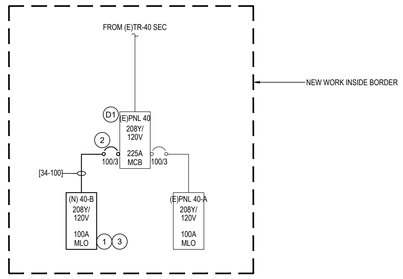
1. COORDINATE ANY INTERRUPTIONS OF SERVICE FOR EXISTING EQUIPMENT WITH COR PRIOR TO DEMOLITION OR CONSTRUCTION.
2. REFER TO ELECTRICAL FEEDER SCHEDULE ON SHEET 000-EG-001 FOR ADDITIONAL INFORMATION AND FEEDER REQUIREMENTS.

KEYNOTES

(1) CONTRACTOR TO PROVIDE NEW 208V, 100A, 3-PHASE PANEL. REFER TO ASSOCIATED 'EP' SHEET FOR LOCATION OF NEW PANEL.

(2) CONTRACTOR TO PROVIDE NEW 100A/3P SUB-FEED BREAKER IN EXISTING SPACE TO FEED NEW PANEL. MATCH EXISTING TYPE AND MANUFACTURER.

(3) CONTRACTOR TO PROVIDE NEW 20A/1P CIRCUIT BREAKERS IN AVAILABLE SPACE IN NEW PANEL TO FEED EXISTING EQUIPMENT. REROUTE CONDUIT AND CONDUCTORS FROM EXISTING EQUIPMENT TO NEW PANEL.



1 BLDG 40 ELECTRICAL ONE-LINE

SCALE: NTS

208/120 VOLT **3** PHASE **4** WIRE — **PANEL (E)PNL 40** — **225 AMP** BUS RATING **200 AMP** MAIN BREAKER

LOCATION: **100** SUPPLIED BY: **TR-40** — SCCR: **EXISTING** AFC:

SERVING: **BLDG 40** — FEED: **TOP** MOUNTING: **SURFACE**

CKT	LOAD	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD	CKT
1	SUB-FEED PANEL 40-A(2)	P	-	100/3	A	20/1	-	-	LIGHTS & OUTLETS (2)	2
3	-	-	-	-	B	20/1	-	-	LIGHTS & OUTLETS (2)	4
5	-	-	-	-	C	20/1	-	-	LIGHTS & OUTLETS (2)	6
7	SUB-FEED PAINT (2)	D	-	30/3	A	30/3	-	-	EXISTING LOAD(2)	8
9	-	-	-	-	B	-	-	-	-	10
11	-	-	-	-	C	-	-	-	-	12
13	LIGHTS & OUTLETS (2)	R	-	20/1	A	**100/3**	**16.790**	P	**(N) PANEL '40-B' (1)**	14
15	LIGHTS & OUTLETS (2)	R	-	20/1	B	-	-	-	-	16
17	LIGHTS & OUTLETS (2)	R	-	20/1	C	-	-	-	-	18
19	OUTLETS (2)	R	-	20/1	A	20/1	-	-	HEAT (2)	20
21	OUTLETS (2)	R	-	20/1	B	20/1	-	-	LIGHTS & OUTLETS (2)	22
23	LIGHTS & OUTLETS (2)	R	-	20/1	C	20/1	-	-	LIGHTS & OUTLETS (2)	24
25	LIGHTS & OUTLETS (2)	R	-	20/1	A	20/1	-	-	LIGHTS (2)	26
27	LIGHTS & OUTLETS (2)	R	-	20/1	B	20/1	-	-	LIGHTS & OUTLETS (2)	28
29	OFFICE (2)	R	-	20/1	C	20/1	-	-	LIGHTS & OUTLETS (2)	30
31	LIGHTS & OUTLETS (2)	R	-	20/1	A	20/1	-	S	FIRE ALARM (2)	32
33	LIGHTS & OUTLETS (2)	R	-	20/1	B	20/1	-	S	LIGHTS & OUTLETS (2)	34
35	LIGHTS & OUTLETS (2)	R	-	20/1	C	20/1	-	S	LIGHTS & OUTLETS (2)	36
37	LIGHTS & OUTLETS (2)	R	-	20/1	A	20/1	-	S	LIGHTS & OUTLETS (2)	38
39	LIGHTS & OUTLETS (2)	R	-	20/1	B	20/1	-	S	LIGHTS & OUTLETS (2)	40
41	VACUUM CLEANER (2)	D	-	20/1	C	20/1	-	S	LIGHTS & OUTLETS (2)	42

PHASE LOAD **PHASE A=** **#VALUE!** KVA **PHASE B=** **#VALUE!** KVA **PHASE C=** **#VALUE!** KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS		MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS	
PANEL (E)PNL 40											KVA	AMP
(N) 40-B		2.88			1.00		10.82	0.18		6.66	**14.88** KVA	**41.29** AMP
CONNECTED LOAD		2.88			1.00		10.82	0.18		6.66	**14.88** KVA	**41.29** AMP
CALCULATED LOAD		2.88			1.25		10.82	0.18		1.66	**16.79** KVA	**46.60** AMP

NOTES: NEW WORK IN BOLD

1. PROVIDE NEW BREAKER. SIZE AS INDICATED ON THIS SCHEDULE. MATCH EXISTING TYPE AND MANUFACTURER.
2. EXISTING LOAD

208/120 VOLT **3** PHASE **4** WIRE — **PANEL (N)40-B** — **100 AMP** BUS RATING **100 AMP** MAIN BREAKER

LOCATION: **100** SUPPLIED BY: **40-A** — SCCR: **EXISTING** AFC:

SERVING: **BLDG 40** — FEED: **TOP** MOUNTING: **SURFACE**

CKT	LOAD	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD	CKT
1	**RK-100A-1A (2)**	D	**1.440**	30/1	A	20/1	**1.000**	L	**LIGHTS & OUTLETS (1)**	2
3	**RK-100A-1B (2)**	D	**1.440**	30/1	B	40/2	**6.656**	M	**ELECTRIC HEATER (1)**	4
5	**40-CU-1 (2)**	M	**4.160**	25/2	C	-	-	-	-	6
7	-	-	-	-	A	-	-	S	**SPACE**	8
9	**40-RECP-1 (2)**	R	**0.180**	20/1	B	-	-	S	**SPACE**	10
11	**SPACE**	S	-	-	C	-	-	S	**SPACE**	12
13	**SPACE**	S	-	-	A	-	-	S	**SPACE**	14
15	**SPACE**	S	-	-	B	-	-	S	**SPACE**	16
17	**SPACE**	S	-	-	C	-	-	S	**SPACE**	18
19	**SPACE**	S	-	-	A	-	-	S	**SPACE**	20
21	**SPACE**	S	-	-	B	-	-	S	**SPACE**	22
23	**SPACE**	S	-	-	C	-	-	S	**SPACE**	24
25	**SPACE**	S	-	-	A	-	-	S	**SPACE**	26
27	**SPACE**	S	-	-	B	-	-	S	**SPACE**	28
29	**SPACE**	S	-	-	C	-	-	S	**SPACE**	30

PHASE LOAD **PHASE A=** 4.52 KVA **PHASE B=** 4.95 KVA **PHASE C=** 5.41 KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS		MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS	
CONNECTED LOAD		2.88			1.00		10.82	0.18		6.66	**14.88** KVA	**41.29** AMP
CALCULATED LOAD		2.88			1.25		10.82	0.18		1.66	**16.79** KVA	**46.60** AMP

NOTES: NEW WORK IN BOLD

1. PROVIDE NEW BREAKER TO FEED EXISTING RELOCATED LOAD FROM (E) PNL '40'. SIZE AS INDICATED ON THIS SCHEDULE.
2. PROVIDE NEW BREAKER. SIZE AS INDICATED ON THIS SCHEDULE.

Revisions:	Date:

CONSULTANT
ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD
A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

STAMP

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: BUILDING 40 ELECTRICAL ONE-LINE & PANEL SCHEDULES

PHASE: 100% CONSTRUCTION DOCUMENTS

PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES

PROJECT NUMBER: 568-21-701

BUILDING NUMBER: 40

APPROVED: Project Director: FOR OFFICIAL USE ONLY (FOUO)

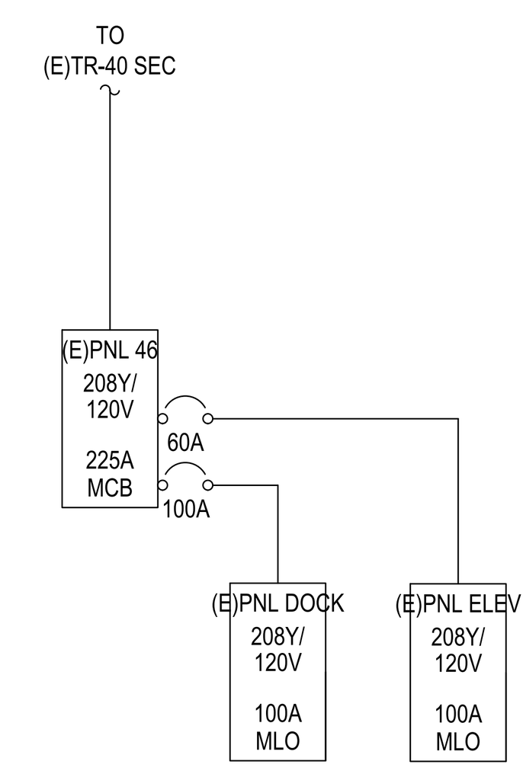
FLS: FULLY SPRINKLERED

LOCATION: FORT MEADE, SOUTH DAKOTA

ISSUE DATE: 11/05/2024 | CHECKED BY: MER | DRAWN BY: AJW

DRAWING NUMBER: 040-EJ-001

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.



1 BLDG 46 ELECTRICAL ONE-LINE

SCALE: NTS

208/120 VOLT	3 PHASE	4 WIRE	PANEL (E)DOCK	100 AMP BUS RATING	100 AMP MAIN BREAKER
LOCATION: DOCK	SUPPLIED BY: PNL 46			SCCR: EXISTING	AFC:
SERVING: DOCK & TE				FEED: TOP	MOUNTING: SURFACE

CKT	LOAD	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD	CKT
1	DOCK LIGHTING (2)	L	-	20/1	A	20/1	-	D	DOCK EXHAUST (2)	2
3	DOCK OUTDOOR LIGHTING (2)	L	-	20/1	B	20/1	-	D	CO-RAY-VAC (2)	4
5	DOCK SWING LIGHTS (2)	L	-	20/1	C	20/1	-	M	AC RM 101B (2)	6
7	DOCK RECEPTS (2)	R	-	20/1	A	20/1	-	M	AC RM 101C (2)	8
9	SPARE (2)	S	-	20/1	B	20/1	-	R	RECP RM 101B (2)	10
11	SPARE (2)	S	-	20/1	C	20/1	-	R	RECP RM 101C (2)	12
13	AC (2)	M	-	40/2	A	**20/1**	**1.440**	D	**RK-B105-1A (1)**	14
15	-	-	-	-	B	**20/1**	**1.440**	D	**RK-B105-1B (1)**	16
17	**46-CU-1 (1)**	M	**4.160**	**25/2**	C	**20/1**	**0.180**	R	**46-RECP-1 (1)**	18
19	-	-	-	-	A	**20/1**	**0.500**	M	**DRAIN PUMP (1)**	20
21	SPACE	S	-	-	B	-	-	S	SPACE	22
23	SPACE	S	-	-	C	-	-	S	SPACE	24
25	DOCK LEVELER NORTH (2)	D	-	20/3	A	20/3	-	D	DOCK LEVELER SOUTH (2)	26
27	-	-	-	-	B	-	-	-	-	28
29	-	-	-	-	C	-	-	-	-	30

PHASE LOAD PHASE A= #VALUE! KVA PHASE B= #VALUE! KVA PHASE C= #VALUE! KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS		MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS	
CONNECTED LOAD		2.88					4.66	0.18		4.16	7.72 KVA	21.43 AMP
CALCULATED LOAD		2.88					4.66	0.18		1.04	8.76 KVA	24.32 AMP

NOTES: NEW WORK IN BOLD

1. PROVIDE NEW BREAKER. SIZE AS INDICATED ON THIS SCHEDULE. MATCH EXISTING TYPE AND MANUFACTURER.
2. EXISTING LOAD

Revisions:	Date:

CONSULTANT

ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD

A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: BUILDING 46 ELECTRICAL ONE-LINE & PANEL SCHEDULES

APPROVED: Project Director

FOR OFFICIAL USE ONLY (FOUO)

PHASE: 100% CONSTRUCTION DOCUMENTS

FLS: FULLY SPRINKLERED

PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES

LOCATION: FORT MEADE, SOUTH DAKOTA

ISSUE DATE: 11/05/2024 | CHECKED BY: MER | DRAWN BY: LAW

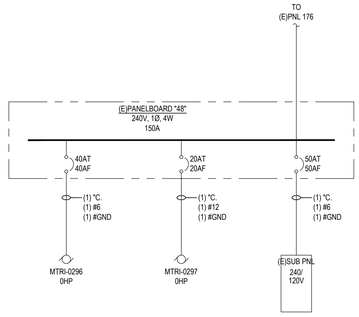
PROJECT NUMBER: 568-21-701

BUILDING NUMBER: 46

DRAWING NUMBER: 046-EJ-001

VA FORM 08 - 6231

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.



1 BLDG 48 ELECTRICAL ONE-LINE

SCALE: NTS

240/120 VOLT **1**PHASE **3** WIRE
LOCATION: **102** SUPPLIED BY: **PNL 176**
SERVING: **BLDG 48**

PANEL
(E)PNL 48

150 AMP MAIN LUGS ONLY
SCCR: **EXISTING** AFC:
FEED: **TOP** MOUNTING: **SURFACE**

CKT	LOAD	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD	CKT
1	BASEMENT SUB-PANEL (2)	P	-	50/2	A	20/1	-	P	FIRE ALARM (2)	2
3	-	-	-	-	B	20/1	-	L	LIGHTS (2)	4
5	WAREHOUSE LTS (2)	L	-	20/1	A	20/1	-	L	LIGHTS (2)	6
7	OUTLETS (2)	R	-	20/1	B	20/1	-	L	LIGHTS (2)	8
9	OUTLETS (2)	R	-	20/1	A	20/1	-	L	LIGHTS (2)	10
11	OUTLETS (2)	R	-	20/1	B	20/1	-	L	LIGHTS (2)	12
13	OUTLETS (2)	R	-	20/1	A	20/1	-	L	LIGHTS (2)	14
15	ELEVATOR (2)	M	-	20/1	B	20/1	-	L	LIGHTS (2)	16
17	W. OFFICE OUTLETS (2)	R	-	20/1	A	20/1	-	WH	WATER HEATER (2)	18
19	S. OFFICE OUTLETS (2)	R	-	20/1	B	20/1	-	L	LIGHTS (2)	20
21	NEW EXTERIOR LIFT (2)	M	-	40/2	A	20/1	-	L	LIGHTS (2)	22
23	-	-	-	-	B	20/1	-	M	AIRE COMPRESSOR (2)	24
25	EXISTING LOAD (2)	D	-	20/1	A	20/1	-	M	FURNACE (2)	26
27	EXISTING LOAD (2)	D	-	20/1	B	20/1	-	M	FURNACE (2)	28
29	EXISTING LOAD (2)	D	-	30/2	A	20/2	-	D	EXISTING LOAD (2)	30
31	-	-	-	-	B	-	-	-	-	32
33	**RK-102F-1A (1)**	D	**1.440**	**30/1**	A	**20/1**	**0.720**	R	**RM 100 RECEPTACLES (1)**	34
35	**RK-102F-1B (1)**	D	**1.440**	**30/1**	B	**20/1**	**0.720**	R	**RM 100 RECEPTACLES (1)**	36
37	**48-CU-1 (1)**	M	**4.800**	**25/2**	A	**20/1**	**0.312**	L	**RM 100 LIGHTS (1)**	38
39	-	-	-	-	B	-	-	S	SPACE	40
41	**48-RECP-1 (1)**	R	**0.180**	**20/1**	A	-	-	S	SPACE	42

PHASE LOAD PHASE A= **#VALUE!** KVA **PHASE B=** **#VALUE!** KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS		MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS	
CONNECTED LOAD		2.88			0.31		4.80	1.62		4.80	**9.61** KVA	**40.05** AMP
CALCULATED LOAD		2.88			0.39		4.80	1.62		1.20	**10.89** KVA	**45.38** AMP

NOTES: **NEW WORK IN BOLD**
1. PROVIDE NEW BREAKER. SIZE AS INDICATED ON THIS SCHEDULE. MATCH EXISTING TYPE AND MANUFACTURER.
2. EXISTING LOAD

Revisions:	Date:

CONSULTANT
ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD
A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

EDWARD J. STATE OF WASHINGTON 49709 REGISTERED PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

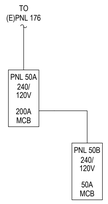
VA U.S. Department of Veterans Affairs

DRAWING TITLE: BUILDING 48 ELECTRICAL ONE-LINE & PANEL SCHEDULES
PHASE: 100% CONSTRUCTION DOCUMENTS
PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES
PROJECT NUMBER: 568-21-701
BUILDING NUMBER: 48
APPROVED: Project Director
FLS: FULLY SPRINKLERED
LOCATION: FORT MEADE, SOUTH DAKOTA
ISSUE DATE: 11/05/2024
CHECKED BY: MER
DRAWN BY: LAW
DRAWING NUMBER: 048-EJ-001

FOR OFFICIAL USE ONLY (FOUO)

VA FORM 08 - 6231

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.



1 BLDG 50 ELECTRICAL ONE-LINE

SCALE: NTS

240/120 VOLT		**1** PHASE		**3** WIRE	**PANEL**		**200 AMP** BUS RATING		**200 AMP** MAIN BREAKER		
LOCATION: **102**		SUPPLIED BY: **PNL 176**			**(E)50A**		SCCR: **EXISTING**		AFC:		
SERVING: **BLDG 48**							FEED: **TOP**		MOUNTING: **SURFACE**		
CKT	**LOAD**	**TYPE**	**KVA**	**A/P**	**PHASE**	**A/P**	**KVA**	**TYPE**	**LOAD**	**CKT**	
1	EXISTING LOAD (2)	D	-	15/1	A	20/1	-	D	EXISTING LOAD (2)	2	
3	EXISTING LOAD (2)	D	-	20/1	B	20/1	-	D	EXISTING LOAD (2)	4	
5	EXISTING LOAD (2)	D	-	20/1	A	15/1	-	D	EXISTING LOAD (2)	6	
7	EXISTING LOAD (2)	D	-	20/1	B	20/1	-	D	EXISTING LOAD (2)	8	
9	EXISTING LOAD (2)	D	-	15/1	A	20/1	-	D	EXISTING LOAD (2)	10	
11	EXISTING LOAD (2)	D	-	15/1	B	20/2	-	D	EXISTING LOAD (2)	12	
13	EXISTING LOAD (2)	D	-	15/1	A	-	-	-	-	14	
15	EXISTING LOAD (2)	D	-	15/1	B	20/1	-	D	EXISTING LOAD (2)	16	
17	EXISTING LOAD (2)	D	-	30/2	A	20/1	-	D	EXISTING LOAD (2)	18	
19	-	-	-	-	B	20/1	-	D	EXISTING LOAD (2)	20	
21	**RK-201A-1A (1)**	D	**1.440**	**30/1**	A	**20/1**	**0.360**	R	**TE RM 201A RECEPTACLE (1)**	22	
23	**RK-201A-1B (1)**	D	**1.440**	**30/1**	B	-	-	-	SPACE	24	
25	**50-CU-1 (1)**	M	**4.800**	**25/2**	A	-	-	-	SPACE	26	
27	-	-	-	-	B	50/2	-	P	(E) PANEL '50-B'	28	
29	**50-RECP-1 (1)**	-	-	**20/1**	A	-	-	-	-	30	

PHASE LOAD PHASE A= **#VALUE!** KVA **PHASE B=** **#VALUE!** KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS		MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS	
CONNECTED LOAD		2.88					4.80	0.36		4.80	**8.04** KVA	**33.50** AMP
CALCULATED LOAD		2.88					4.80	0.36		1.20	**9.24** KVA	**38.50** AMP

NOTES: **NEW WORK IN BOLD**

1. PROVIDE NEW BREAKER. SIZE AS INDICATED ON THIS SCHEDULE. MATCH EXISTING TYPE AND MANUFACTURER.
2. EXISTING LOAD

Revisions:	Date:

CONSULTANT

ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD

A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

EDWARD LAW — STATE OF WASHINGTON — 43779 — REGISTERED PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: BUILDING 50 ELECTRICAL ONE-LINE & PANEL SCHEDULES

PHASE: 100% CONSTRUCTION DOCUMENTS

PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES

PROJECT NUMBER: 568-21-701

BUILDING NUMBER: 50

APPROVED: Project Director

FLS: FULLY SPRINKLERED

LOCATION: FORT MEADE, SOUTH DAKOTA

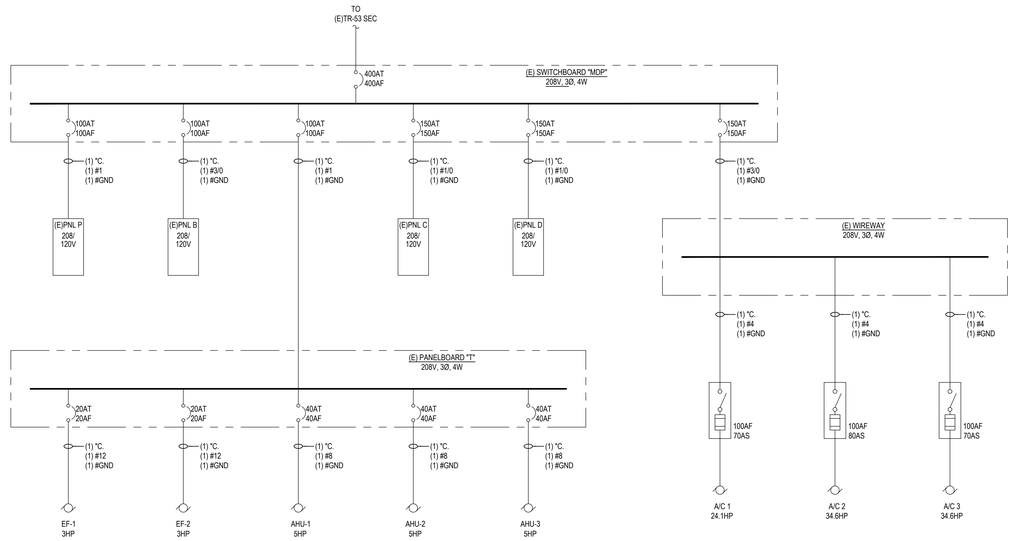
ISSUE DATE: 11/05/2024 | CHECKED BY: MER | DRAWN BY: LAW

DRAWING NUMBER: **050-EJ-001**

FOR OFFICIAL USE ONLY (FOUO)

VA FORM 08 - 6231

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.



1 BLDG 53 ELECTRICAL ONE-LINE
SCALE: NTS

208/120 VOLT	3 PHASE	4 WIRE	PANEL	150 AMP MAIN LUGS ONLY
LOCATION: CB100	SUPPLIED BY: TR53		(E)53-B	SCCR: EXISTING AFC:
SERVING: BLDG 53				FEED: TOP MOUNTING: SURFACE

CKT	LOAD	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD	CKT
1	BASEMENT LTS (2)	L	-	20/1	A	20/1	-	A	MICROWAVE/REFRIDGERATOR (2)	2
3	B101 (2)	D	-	20/1	B	20/1	-	D	KITCHENETTE GF/LEFT (2)	4
5	MECH RM LTS	L	-	20/1	C	20/1	-	A	DISHWASHER (2)	6
7	RECEPTACLES (2)	R	-	20/1	A	20/1	-	D	RANGE (2)	8
9	RECEPTACLES (2)	R	-	20/1	B	20/1	-	-	-	10
11	RECEPTACLES (2)	R	-	20/1	C	20/1	-	L	LTG 115, 116, 117 (2)	12
13	B104 RECEPTACLES (2)	R	-	20/1	A	20/1	-	L	LTG 112, 113, 114 (2)	14
15	RK-TCB1-1A (3)	D	5.000	20/3	B	20/2	-	L	LTG 110, 111 (2)	16
17	-	-	-	-	C	-	-	-	-	18
19	-	-	-	-	A	-	-	S	SPACE	20
21	53-CU-1 (1)	M	4.160	25/2	B	-	-	S	SPACE	22
23	-	-	-	-	C	-	-	S	SPACE	24
25	TCB1 - RECEPTACLES (1)	R	0.720	20/1	A	-	-	S	SPACE	26
27	TCB1 - RECEPTACLES (1)	R	0.720	20/1	B	-	-	S	SPACE	28
29	TCB1 - LIGHTS (1)	L	0.156	20/1	C	-	-	S	SPACE	30
31	53-RECP-1 (1)	R	0.180	20/1	A	-	-	S	SPACE	32
33	SPACE	S	-	-	B	-	-	S	SPACE	34
35	SPACE	S	-	-	C	-	-	S	SPACE	36
37	SPACE	S	-	-	A	-	-	S	SPACE	38
39	SPACE	S	-	-	B	-	-	S	SPACE	40
41	SPACE	S	-	-	C	-	-	S	SPACE	42

PHASE LOAD PHASE A= #VALUE! KVA PHASE B= #VALUE! KVA PHASE C= #VALUE! KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS		MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS	
CONNECTED LOAD		5.00			0.16		4.16	1.62		4.16	**10.94** KVA	**30.36** AMP
CALCULATED LOAD		5.00			0.20		4.16	1.62		1.04	**12.02** KVA	**33.35** AMP

NOTES: NEW WORK IN BOLD
1. PROVIDE NEW BREAKER, SIZE AS INDICATED ON THIS SCHEDULE. MATCH EXISTING TYPE AND MANUFACTURER.
2. EXISTING LOAD

Revisions:	Date:

CONSULTANT
ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD
A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP
EDWARD LAW — STATE OF WASHINGTON — 21702 — REGISTERED PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

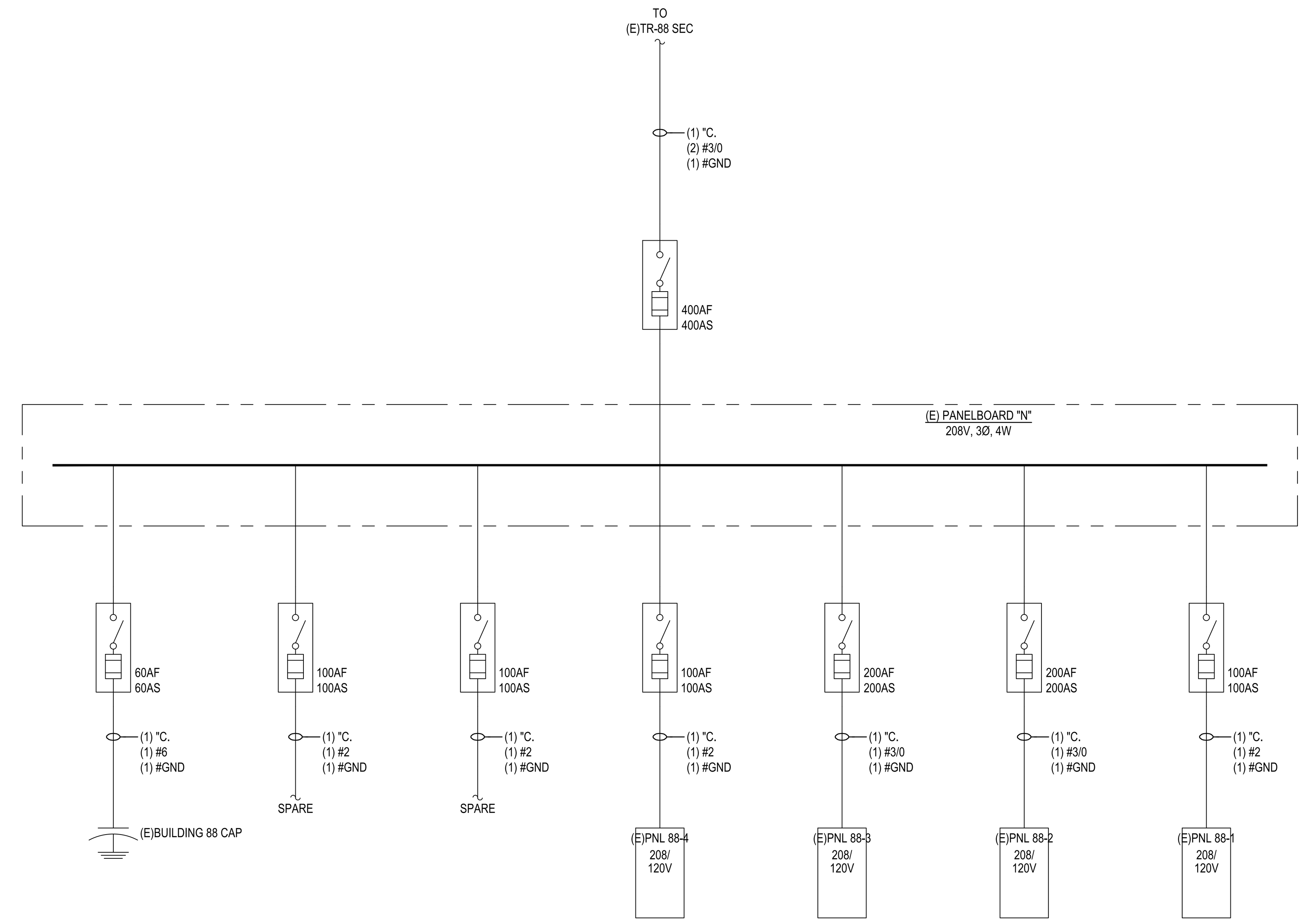
VA U.S. Department of Veterans Affairs

DRAWING TITLE: BUILDING 53 ELECTRICAL ONE-LINE & PANEL SCHEDULES
PHASE: 100% CONSTRUCTION DOCUMENTS
PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES
PROJECT NUMBER: 568-21-701
BUILDING NUMBER: 53
APPROVED: Project Director
FLS: FULLY SPRINKLERED
LOCATION: FORT MEADE, SOUTH DAKOTA
ISSUE DATE: 11/05/2024
CHECKED BY: MER
DRAWN BY: LAW
DRAWING NUMBER: 053-EJ-001

FOR OFFICIAL USE ONLY (FOUO)

VA FORM 08 - 6231

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.



1 BLDG 88 ELECTRICAL ONE-LINE

SCALE: NTS

PANEL (E)88-1

208/120 VOLT **3** PHASE **4** WIRE | **100 AMP** BUS RATING | **100 AMP** MAIN BREAKER

LOCATION: | SUPPLIED BY: | SCCR: **22,000 A** | AFC:

SERVING: | FEED: **TOP** | MOUNTING: **SURFACE**

CKT	LOAD	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD	CKT
1	PRINT RM. CAMERA (2)	D	-	30/1	A	20/1	-	L	OFFICE LTG (2)	2
3	PANEL OUTLET SPARE (2)	S	-	20/1	B	20/1	-	L	OFFICE LTG (2)	4
5	PRINT SHOP RECP (2)	R	-	20/1	C	20/1	-	L	OFFICE LTG (2)	6
7	PRINT SHOP RECP (2)	R	-	20/1	A	20/1	-	L	OFFICE LTG (2)	8
9	BREAK ROOM RECP (2)	R	-	20/1	B	20/1	-	R	RECP (2)	10
11	COFFEE RECO (SINK) (2)	R	-	20/1	C	20/1	-	R	RECP (2)	12
13	WATER FOUNTAIN (2)	D	-	20/1	A	20/1	-	R	RECP (2)	14
15	WINDOW A/C RECP (2)	R	-	20/1	B	20/1	-	D	EXISTING LOAD (2)	16
17	WINDOW A/C RECP (2)	R	-	20/1	C	20/1	-	D	EXISTING LOAD (2)	18
19	OFFICE RECP (2)	R	-	20/1	A	20/1	-	D	EXISTING LOAD (2)	20
21	WINDOW A/C RECP (2)	R	-	20/1	B	20/1	-	D	EXISTING LOAD (2)	22
23	OFFICE RECP (2)	R	-	20/1	C	20/1	-	S	SPARE (2)	24
25	**RK-B102D-1A (1)**	D	**5.000**	**20/3**	**A**	20/1	-	R	CONFRENCE RM RECP	26
27	-	-	-	-	**B**	40/2	-	M	POWER CONDITIONER	28
29	-	-	-	-	**C**	-	-	-	-	30

PHASE LOAD **PHASE A=** **#VALUE!** KVA **PHASE B=** **#VALUE!** KVA **PHASE C=** **#VALUE!** KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS		MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS	
CONNECTED LOAD		5.00									**5.00** KVA	**13.88** AMP
CALCULATED LOAD		5.00									**5.00** KVA	**13.88** AMP

NOTES: NEW WORK IN BOLD

1. PROVIDE NEW BREAKER. SIZE AS INDICATED ON THIS SCHEDULE. MATCH EXISTING TYPE AND MANUFACTURER.
2. EXISTING LOAD

PANEL (E)88-4

208/120 VOLT **3** PHASE **4** WIRE | **125 AMP** BUS RATING | **125 AMP** MAIN BREAKER

LOCATION: | SUPPLIED BY: | SCCR: **EXISTING** | AFC:

SERVING: | FEED: **TOP** | MOUNTING: **SURFACE**

CKT	LOAD	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD	CKT
1	OFFICE HEAT (2)	H	-	30/2	A	30/2	-	D	OFFICE HEAT (2)	2
3	-	-	-	-	B	-	-	-	-	4
5	SPRINKLER PUMP (2)	D	-	20/2	C	20/1	-	R	PRINT SHOP RECP (2)	6
7	-	-	-	-	A	20/1	-	D	OFFICE HEAT (2)	8
9	PRINT SHOP A/C RECP (2)	R	-	20/1	B	20/1	-	D	OFFICE HEAT (2)	10
11	PRINT SHOP LTG (2)	L	-	20/1	C	20/1	-	R	WINDOW A/C RECP (2)	12
13	PRINT SHOP RECP (2)	R	-	20/1	A	20/1	-	L	OFFICE LTG (2)	14
15	PRINT SHOW RECP (2)	R	-	20/1	B	20/1	-	R	OFFICE RECP SPACE (2)	16
17	**RK-B102D-1B (1)**	D	**5.000**	**20/3**	C	**25/2**	**4.160**	M	**88-CU-1 (1)**	18
19	-	-	-	-	A	-	-	-	-	20
21	-	-	-	-	B	**20/1**	**0.208**	L	**RM B102D LIGHTS (1)**	22
23	**88-RECP-1 (1)**	R	**0.180**	**20/1**	C	-	-	S	SPACE	24
25	**TR RM B102D RECEPTACLES (1)**	R	**0.720**	**20/1**	A	-	-	S	SPACE	26
27	**TR RM B102D RECEPTACLES (1)**	R	**0.720**	**20/1**	B	-	-	S	SPACE	28
29	SPACE	S	-	-	C	-	-	S	SPACE	30

PHASE LOAD **PHASE A=** **#VALUE!** KVA **PHASE B=** **#VALUE!** KVA **PHASE C=** **#VALUE!** KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS		MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS	
CONNECTED LOAD		5.00			0.21		4.16	1.62		4.16	**10.99** KVA	**30.50** AMP
CALCULATED LOAD		5.00			0.26		4.16	1.62		1.04	**12.08** KVA	**33.53** AMP

NOTES: NEW WORK IN BOLD

1. PROVIDE NEW BREAKER. SIZE AS INDICATED ON THIS SCHEDULE. MATCH EXISTING TYPE AND MANUFACTURER.
2. EXISTING LOAD

Revisions:	Date:

CONSULTANT

ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD

A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: BUILDING 88 ELECTRICAL ONE-LINE & PANEL SCHEDULES

APPROVED: Project Director

FOR OFFICIAL USE ONLY (FOUO)

PHASE: 100% CONSTRUCTION DOCUMENTS

FLS: FULLY SPRINKLERED

PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES

LOCATION: FORT MEADE, SOUTH DAKOTA

ISSUE DATE	CHECKED BY	DRAWN BY
11/05/2024	MER	LAW

PROJECT NUMBER: 568-21-701

BUILDING NUMBER: 88

DRAWING NUMBER: 088-EJ-001

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

PANEL (E)89-A

208/120 VOLT | **3** PHASE | **4** WIRE | **225 AMP** BUS RATING | **225 AMP** MAIN BREAKER

LOCATION: **ELEC RM** | SUPPLIED BY: **MDP** | SCCR: **EXISTING** | AFC:

SERVING: **BLDG 89** | FEED: **TOP** | MOUNTING: **SURFACE**

CKT	LOAD	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD	CKT
1	GENERAL MECH LTG (2)	L	-	20/1	A	50/2	-	D	208V BOILER & PRINT MACHINE (2)	2
3	PLUMBING SHOP LTG (2)	L	-	20/1	B	-	-	-	-	4
5	ELEC SHOP LTG UPSTAIRS (2)	L	-	15/1	C	20/1	-	R	ELEC SHOP SOUTH RECP (2)	6
7	PLUMBING SHOP LTG UPSTAIRS (2)	L	-	15/1	A	20/1	-	R	PLUMB SHOP RECP S. & W. (2)	8
9	ENGINEERING OFFICE S. RECP (2)	R	-	20/1	B	20/1	-	L	ELEC SHOP N. LTG (2)	10
11	ENGINEERING OFFICE CENTER LTG (2)	D	-	20/1	C	20/1	-	L	ELECTRIC SHOP SOUTH LTG (2)	12
13	ENGINEERING OFFICE SOUTH LTG (2)	D	-	20/1	A	20/1	-	L	PLUMBING SHOP LTG (2)	14
15	208V AIR COMPRESSOR (2)	D	-	20/3	B	20/1	-	R	ENGINEERING OFFICE RECP (2)	16
17	-	-	-	-	C	20/1	-	D	REST ROOM WATER COOLER (2)	18
19	-	-	-	-	A	20/1	-	L	HALLWAY, JANITOR & ENGR. LTG (2)	20
21	PLUMBING SHOP S. RECP (2)	R	-	20/1	B	20/1	-	L	ENGR. OFFICE N. LTG (2)	22
23	PLUMBING SHOP S. RECP (2)	R	-	15/1	C	20/1	-	L	ELEC. & PLUMB. OFFICE LTG (2)	24
25	ELEC SHOP RECP BENCH (2)	R	-	20/1	A	20/3	-	D	ELEC SHOP 3PHASE BENCH (2)	26
27	ELEC SHOP TOP BENCH RECP (2)	R	-	20/2	B	-	-	-	-	28
29	-	-	-	-	C	-	-	-	-	30
31	ELEC SHOP BENCH TESTER (2)	S	-	20/1	A	20/2	-	D	ELEC SHOP 208V BENCH (2)	32
33	EXISTING LOAD (FIRE ALARM) (2)	S	-	20/1	B	-	-	-	-	34
35	EXISTING LOAD (2)	S	-	20/1	C	**20/3**	**1.167**	D	**RK-202-1A (1)**	**36**
37	EXISTING LOAD (2)	S	-	20/2	A	**-**	**-**	**-**	-	**38**
39	SPARE	-	-	-	B	**-**	**-**	**-**	-	**40**
41	EXISTING LOAD (2)	S	-	20/1	C	20/1	-	S	PLUMBING N. RECP (2)	42

PHASE LOAD **PHASE A=** **#VALUE!** KVA **PHASE B=** **#VALUE!** KVA **PHASE C=** **#VALUE!** KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS		MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS	
CONNECTED LOAD		1.17									**1.17** KVA	**3.24** AMP
CALCULATED LOAD		1.17									**1.17** KVA	**3.24** AMP

NOTES: **NEW WORK IN BOLD**

1. PROVIDE NEW BREAKER. SIZE AS INDICATED ON THIS SCHEDULE. MATCH EXISTING TYPE AND MANUFACTURER.
2. EXISTING LOAD

PANEL (N)89-LN-202

208/120 VOLT | **3** PHASE | **4** WIRE | **100 AMP** BUS RATING | **100 AMP** MAIN BREAKER

LOCATION: **202** | SUPPLIED BY: **MDP** | SCCR: **22,000 A** | AFC:

SERVING: **TR** | FEED: **TOP** | MOUNTING: **SURFACE**

CKT	LOAD	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD	CKT
1	RK-202-1A (1)	D	2.500	20/3	A	20/3	2.500	D	RK-202-1B (1)	2
3	-	-	-	-	B	-	-	-	-	4
5	-	-	-	-	C	-	-	-	-	6
7	89-RECP-1 (1)	R	0.180	20/1	A	20/1	0.720	R	TR RM 202 RECEPTACLES (1)	8
9	LIGHTING - RM 202	L	0.208	20/1	B	20/1	0.720	R	TR RM 202 RECEPTACLES (1)	10
11	SPARE (1)	S	-	20/1	C	25/2	4.160	M	89-CU-1 (1)	12
13	SPARE (1)	S	-	20/1	A	-	-	-	-	14
15	SPARE (1)	S	-	20/1	B	20/1	-	S	SPARE (1)	16
17	SPACE	S	-	-	C	20/1	-	S	SPARE (1)	18
19	SPACE	S	-	-	A	20/1	-	S	SPARE (1)	20
21	SPACE	S	-	-	B	-	-	S	SPACE	22
23	SPACE	S	-	-	C	-	-	S	SPACE	24
25	SPACE	S	-	-	A	-	-	S	SPACE	26
27	SPACE	S	-	-	B	-	-	S	SPACE	28
29	SPACE	S	-	-	C	-	-	S	SPACE	30
31	SPACE	S	-	-	A	-	-	S	SPACE	32
33	SPACE	S	-	-	B	-	-	S	SPACE	34
35	SPACE	S	-	-	C	-	-	S	SPACE	36
37	SPACE	S	-	-	A	-	-	S	SPACE	38
39	SPACE	S	-	-	B	-	-	S	SPACE	40
41	SPACE	S	-	-	C	-	-	S	SPACE	42

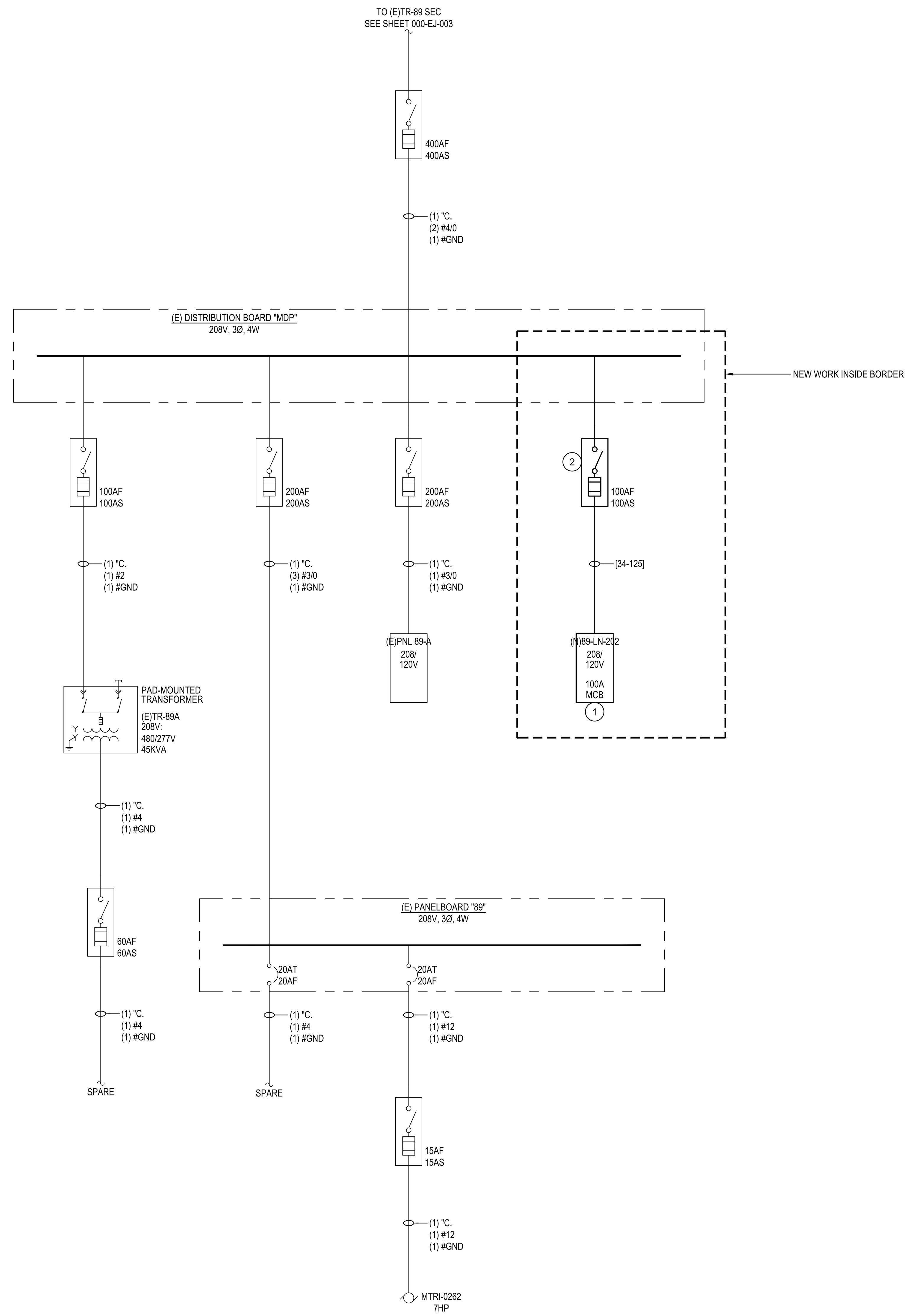
PHASE LOAD **PHASE A=** **4.65** KVA **PHASE B=** **2.59** KVA **PHASE C=** **3.75** KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS		MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS	
CONNECTED LOAD		5.00			0.21		4.16	1.62		4.16	**10.99** KVA	**30.50** AMP
CALCULATED LOAD		5.00			0.26		4.16	1.62		1.04	**12.08** KVA	**33.53** AMP

NOTES: **NEW WORK IN BOLD**

PROVIDE WITH 200% RATED NEUTRAL.

1. PROVIDE NEW BREAKER. SIZE AS INDICATED ON THIS SCHEDULE.



1 BLDG 89 ELECTRICAL ONE-LINE
SCALE: NTS

GENERAL NOTES

1. COORDINATE ANY INTERRUPTIONS OF SERVICE FOR EXISTING EQUIPMENT WITH COR PRIOR TO DEMOLITION OR CONSTRUCTION.
2. REFER TO ELECTRICAL FEEDER SCHEDULE ON SHEET 000-EG-001 FOR ADDITIONAL INFORMATION AND FEEDER REQUIREMENTS.

KEYNOTES

(1) CONTRACTOR TO PROVIDE NEW 208V, 100A, 3-PHASE PANEL WITH NEW 100A MAIN CIRCUIT BREAKER. REFER TO ASSOCIATED 'EP' SHEET FOR LOCATION OF NEW PANEL.

(2) CONTRACTOR TO PROVIDE NEW 100A FUSES IN EXISTING SPARE BUCKET IN 'MDP'.

Revisions:	Date:

CONSULTANT

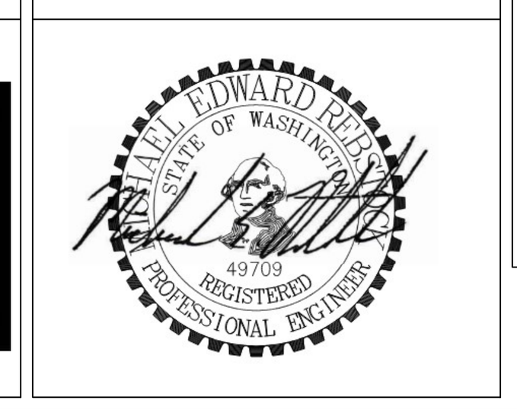
ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD

A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP



OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE	BUILDING 89 ELECTRICAL ONE-LINE & PANEL SCHEDULES
APPROVED: Project Director	FOR OFFICIAL USE ONLY (FOUO)
PHASE	100% CONSTRUCTION DOCUMENTS
FLS	FULLY SPRINKLERED
PROJECT TITLE	EHRM INFRASTRUCTURE UPGRADES
LOCATION	FORT MEADE, SOUTH DAKOTA
ISSUE DATE	11/05/2024
CHECKED BY	MER
DRAWN BY	LAW
PROJECT NUMBER	568-21-701
BUILDING NUMBER	89
DRAWING NUMBER	089-EJ-001

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

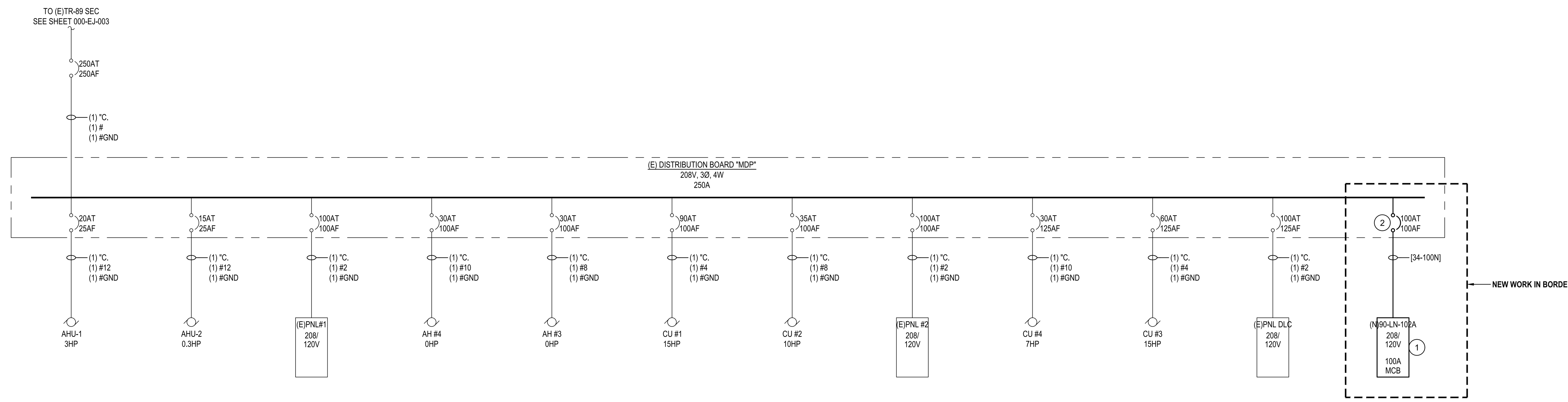
GENERAL NOTES

1. COORDINATE ANY INTERRUPTIONS OF SERVICE FOR EXISTING EQUIPMENT WITH COR PRIOR TO DEMOLITION OR CONSTRUCTION.
2. REFER TO ELECTRICAL FEEDER SCHEDULE SHEET 000-EG-001 FOR ADDITIONAL INFORMATION AND FEEDER REQUIREMENTS.

KEYNOTES

(1) CONTRACTOR TO PROVIDE NEW 208Y/120V, 100A, PANEL. REFER TO ASSOCIATED 'EP' SHEET FOR LOCATION OF NEW PANEL.

(2) CONTRACTOR TO PROVIDE NEW 100A/3P SUB-FEED BREAKER IN EXISTING SPACE TO FEED NEW PANEL. SIZE AS INDICATED ON THIS SHEET. MATCH EXISTING TYPE AND MANUFACTURER.



1 BLDG 90 ELECTRICAL ONE-LINE
SCALE: NTS

PANEL (E)MDP

208/120 VOLT, 3 PHASE, 4 WIRE. LOCATION: 102. SUPPLIED BY: TR89. SERVING: BLDG 90. 250 AMP BUS RATING. 250 AMP MAIN BREAKER. SCCR: EXISTING. AFC: FEED: TOP. MOUNTING: SURFACE

CKT	LOAD	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD	CKT
1	EXISTING LOAD (2)	D	-	20/3	A	15/3	-	D	EXISTING LOAD (2)	2
3	-	-	-	-	B	-	-	-	-	4
5	-	-	-	-	C	-	-	-	-	6
7	EXISTING LOAD (2)	D	-	100/3	A	30/3	-	D	EXISTING LOAD (2)	8
9	-	-	-	-	B	-	-	-	-	10
11	-	-	-	-	C	-	-	-	-	12
13	EXISTING LOAD (2)	D	-	30/3	A	30/3	-	D	EXISTING LOAD (2)	14
15	-	-	-	-	B	-	-	-	-	16
17	-	-	-	-	C	-	-	-	-	18
19	EXISTING LOAD (2)	D	-	90/3	A	35/3	-	D	EXISTING LOAD (2)	20
21	-	-	-	-	B	-	-	-	-	22
23	-	-	-	-	C	-	-	-	-	24
25	EXISTING LOAD (2)	D	-	30/3	A	100/3	-	D	EXISTING LOAD (2)	26
27	-	-	-	-	B	-	-	-	-	28
29	-	-	-	-	C	-	-	-	-	30
31	EXISTING LOAD (2)	D	-	30/3	A	60/3	-	D	EXISTING LOAD (2)	32
33	-	-	-	-	B	-	-	-	-	34
35	-	-	-	-	C	-	-	-	-	36
37	**90-LN-102A (1)**	**P**	**11.716**	**100/3**	A	100/3	-	D	EXISTING LOAD (2)	38
39	-	-	-	-	B	-	-	-	-	40
41	-	-	-	-	C	-	-	-	-	42

PHASE LOAD PHASE A= #VALUE! KVA PHASE B= #VALUE! KVA PHASE C= #VALUE! KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS		MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS	
PANEL (E)MDP											KVA	AMP
(N)90-LN-102A		5.00			0.10		4.99	1.62		4.99	11.72 KVA	32.52 AMP
CONNECTED LOAD		5.00			0.10		4.99	1.62		4.99	11.72 KVA	32.52 AMP
CALCULATED LOAD		5.00			0.13		4.99	1.62		1.25	12.99 KVA	36.06 AMP

NOTES: NEW WORK IN BOLD
1. PROVIDE NEW BREAKER IN EXISTING SPACE. SIZE AS INDICATED ON THIS SCHEDULE. MATCH EXISTING TYPE AND MANUFACTURER.

PANEL (E)90-1

208/120 VOLT, 3 PHASE, 4 WIRE. LOCATION: 102. SUPPLIED BY: MDP. SERVING: BLDG 90. 100 AMP BUS RATING. 100 AMP MAIN BREAKER. SCCR: EXISTING. AFC: FEED: TOP. MOUNTING: SURFACE

CKT	LOAD	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD	CKT
1	ELECTRIC HEAT (2)	H	-	30/2	A	-	-	M	AIR CONDITIONER (2)	2
3	-	-	-	-	B	-	-	-	-	4
5	**RK-102A-1A (1)**	**D**	**5.000**	**20/3**	C	-	-	M	AIR CONDITIONER (2)	6
7	-	-	-	-	A	-	-	-	-	8
9	-	-	-	-	B	-	-	D	FIRE ALARM PANEL (2)	10
11	SPARE (2)	S	-	20/1	C	-	-	D	LTG & RECP (2)	12
13	COMP RECP SCHOOL (2)	R	-	20/1	A	-	-	D	STONE SAW (2)	14
15	LTG AND RECP (2)	D	-	20/3	B	-	-	-	-	16
17	-	-	-	-	C	-	-	R	CONF. RM L RECP (2)	18
19	-	-	-	-	A	-	-	R	CLASSROOM CORR RECP (2)	20
21	CLASS IG FLR RECP (2)	R	-	20/1	B	-	-	R	CLASS IG FLR RECP (2)	22
23	CLASS IG FLR RECP (2)	R	-	20/1	C	-	-	R	CLASS IG FLR RECP (2)	24
25	CLASS IG FLR RECP (2)	R	-	20/1	A	-	-	R	CLASS IG FLR RECP (2)	26
27	CLASS IG FLR RECP (2)	R	-	20/1	B	-	-	L	NEW CLASSRM LTG (2)	28
29	CLASS IG FLR RECP (2)	R	-	20/1	C	-	-	L	NEW CLASSRM LTG (2)	30
31	CLASS IG FLR RECP (2)	R	-	20/1	A	20/1	-	S	SPARE (2)	32
33	E OFFICE IG RECP (2)	R	-	20/1	B	20/1	-	R	WATER COLLER RECP (2)	34
35	SPARE (2)	S	-	20/1	C	20/1	-	R	E OFFICE IG RECP (2)	36
37	SPARE (2)	S	-	20/1	A	20/1	-	D	CP 1&4 (2)	38
39	A-H CONTROLS (2)	D	-	20/1	B	20/1	-	D	CP 2&3 (2)	40
41	SPRINKLER AIR COMP (2)	D	-	20/1	C	20/1	-	D	BOILER (2)	42

PHASE LOAD PHASE A= #VALUE! KVA PHASE B= #VALUE! KVA PHASE C= #VALUE! KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS		MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS	
CONNECTED LOAD		5.00									5.00 KVA	13.88 AMP
CALCULATED LOAD		5.00									5.00 KVA	13.88 AMP

NOTES: NEW WORK IN BOLD
1. PROVIDE NEW BREAKER. SIZE AS INDICATED ON THIS SCHEDULE. MATCH EXISTING TYPE AND MANUFACTURER.
2. EXISTING LOAD

PANEL (N)90-LN-102A

208/120 VOLT, 3 PHASE, 4 WIRE. LOCATION: 102A. SUPPLIED BY: MDP. SERVING: TR. 100 AMP BUS RATING. 100 AMP MAIN BREAKER. SCCR: 22,000 A. AFC: FEED: TOP. MOUNTING: SURFACE

CKT	LOAD	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD	CKT
1	RK-102A-1B (1)	D	5.000	20/3	A	20/1	0.180	R	90-RECP-1 (1)	2
3	-	-	-	-	B	35/2	4.992	M	90-OU-1 (1)	4
5	-	-	-	-	C	-	-	-	-	6
7	RM 102A RECEPTACLES (1)	R	0.720	20/1	A	20/1	0.720	R	RM 102A RECEPTACLES (1)	8
9	RM 102A LIGHTING (1)	L	0.104	20/1	B	20/1	-	S	SPARE (1)	10
11	SPARE (1)	S	-	20/1	C	20/1	-	S	SPARE (1)	12
13	SPARE (1)	S	-	20/1	A	20/1	-	S	SPARE (1)	14
15	SPARE (1)	S	-	20/1	B	-	-	S	SPACE	16
17	SPACE	S	-	-	C	-	-	S	SPACE	18
19	SPACE	S	-	-	A	-	-	S	SPACE	20
21	SPACE	S	-	-	B	-	-	S	SPACE	22
23	SPACE	S	-	-	C	-	-	S	SPACE	24
25	SPACE	S	-	-	A	-	-	S	SPACE	26
27	SPACE	S	-	-	B	-	-	S	SPACE	28
29	SPACE	S	-	-	C	-	-	S	SPACE	30

PHASE LOAD PHASE A= 3.29 KVA PHASE B= 4.27 KVA PHASE C= 4.16 KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS		MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS	
CONNECTED LOAD		5.00			0.10		4.99	1.62		4.99	11.72 KVA	32.52 AMP
CALCULATED LOAD		5.00			0.13		4.99	1.62		1.25	12.99 KVA	36.06 AMP

NOTES: NEW WORK IN BOLD
PROVIDE WITH 200% RATED NEUTRAL.
1. PROVIDE NEW BREAKER. SIZE AS INDICATED ON THIS SCHEDULE.

Revisions:	Date:

CONSULTANT
ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD
A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT
VA U.S. Department of Veterans Affairs

DRAWING TITLE	PHASE	PROJECT TITLE	PROJECT NUMBER
BUILDING 90 ELECTRICAL ONE-LINE & PANEL SCHEDULES	100% CONSTRUCTION DOCUMENTS	EHRM INFRASTRUCTURE UPGRADES	568-21-701
			BUILDING NUMBER: 90
APPROVED: Project Director — FOR OFFICIAL USE ONLY (FOUO)	FLS: FULLY SPRINKLERED	LOCATION: FORT MEADE, SOUTH DAKOTA	DRAWING NUMBER: 090-EJ-001
		ISSUE DATE: 11/05/2024; CHECKED BY: MER; DRAWN BY: LAW	

VA FORM 08 - 6231

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

240/120 VOLT **1** PHASE **3** WIRE | PANEL **(N)110-LN-T1** | **150 AMP** BUS RATING **150 AMP** MAIN BREAKER

LOCATION: **GARAGE** SUPPLIED BY: **TR170** | SCCR: **22,000 A** AFC: | FEED: **TOP** MOUNTING: **SURFACE**

SERVING: **BLDG 110**

CKT	LOAD	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD	CKT
1	EXISTING LOAD (2)	D	-	20/1	A	20/2	-	D	EXISTING LOAD (2)	2
3	EXISTING LOAD (2)	D	-	20/1	B	-	-	-	-	4
5	EXISTING LOAD (2)	D	-	20/2	A	30/2	-	D	EXISTING LOAD (2)	6
7	-	-	-	-	B	-	-	-	-	8
9	EXISTING LOAD (2)	D	-	20/1	A	20/1	-	D	EXISTING LOAD (2)	10
11	EXISTING LOAD (2)	D	-	20/1	B	20/1	-	D	EXISTING LOAD (2)	12
13	EXISTING LOAD (2)	D	-	20/1	A	30/2	-	D	EXISTING LOAD (2)	14
15	EXISTING LOAD (2)	D	-	20/1	B	-	-	-	-	16
17	EXISTING LOAD (2)	D	-	15/1	A	20/1	-	D	EXISTING LOAD (2)	18
19	EXISTING LOAD (2)	D	-	15/1	B	20/1	-	D	EXISTING LOAD (2)	20
21	EXISTING LOAD (2)	D	-	20/1	A	20/1	-	D	EXISTING LOAD (2)	22
23	EXISTING LOAD (2)	D	-	60/2	B	35/2	-	D	EXISTING LOAD (2)	24
25	-	-	-	-	A	-	-	-	-	26
27	RK-102-1A (1)	D	1.440	30/1	B	20/1	-	S	SPARE (1)	28
29	RK-102-1B (1)	D	1.440	30/1	A	20/1	-	S	SPARE (1)	30
31	110-RECP-1 (1)	R	0.360	20/1	B	20/1	-	S	SPARE (1)	32
33	110-CU-1 (1)	M	4.800	25/2	A	-	-	S	SPACE	34
35	-	-	-	-	B	-	-	S	SPACE	36
37	SPACE	S	-	-	A	-	-	S	SPACE	38
39	SPACE	S	-	-	B	-	-	S	SPACE	40
41	SPACE	S	-	-	A	-	-	S	SPACE	42

PHASE LOAD PHASE A= #VALUE! KVA PHASE B= #VALUE! KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS		MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS	
CONNECTED LOAD		2.88					4.80	0.36		4.80	**8.04** KVA	**33.50** AMP
CALCULATED LOAD		2.88					4.80	0.36		1.20	**9.24** KVA	**38.50** AMP

NOTES: **NEW WORK IN BOLD**

PROVIDE WITH 200% RATED NEUTRAL.

1. PROVIDE NEW BREAKER. SIZE AS INDICATED ON THIS SCHEDULE.

2. PROVIDE NEW BREAKER FOR RELOCATED EXISTING LOAD. SIZE AS INDICATED ON THIS SCHEDULE.

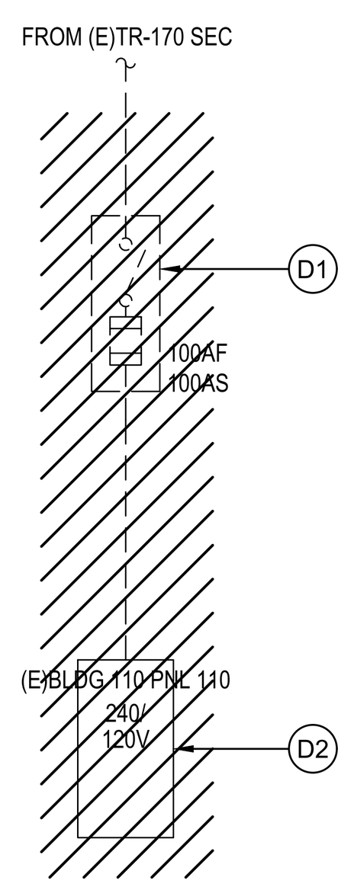
GENERAL DEMOLITION NOTES

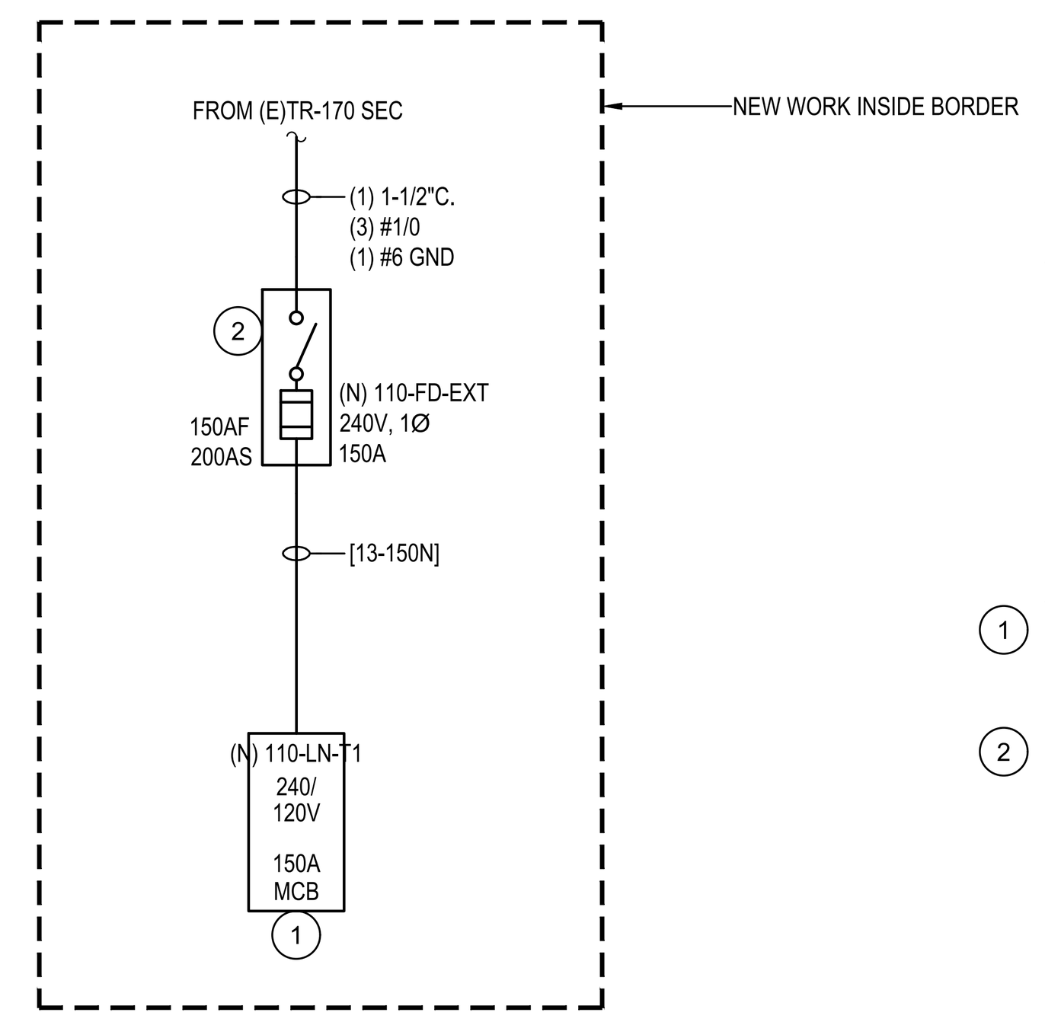
1. VISIT AND EXAMINE THE SITE PRIOR TO INITIATION OF WORK TO ASCERTAIN THE CONDITIONS AND LIMITS OF DEMOLITION AND CONSTRUCTION.
2. COORDINATE ANY INTERRUPTIONS OF SERVICE FOR EXISTING EQUIPMENT WITH COR PRIOR TO DEMOLITION OR CONSTRUCTION.

DEMOLITION KEYNOTES

(D1) CONTRACTOR TO REMOVE EXISTING 100A SERVICE DISCONNECT EXISTING CONDUIT AND CONDUCTORS TO REMAIN FOR REUSE. CONTRACTOR TO VERIFY CONDUCTOR SIZES TO ENSURE FEEDERS ARE CAPABLE OF SUPPORTING NEW 150A PANEL. REMOVE CONDUCTORS BACK TO SOURCE IF EXISTING FEEDERS NEED TO BE UPSIZED.

(D2) CONTRACTOR TO REMOVE EXISTING 100A PANEL. REMOVE CONDUIT AND CONDUCTORS BACK TO SOURCE.





GENERAL NOTES

1. COORDINATE ANY INTERRUPTIONS OF SERVICE FOR EXISTING EQUIPMENT WITH COR PRIOR TO DEMOLITION OR CONSTRUCTION.
2. REFER TO ELECTRICAL FEEDER SCHEDULE ON SHEET 000-EG-001 FOR ADDITIONAL INFORMATION AND FEEDER REQUIREMENTS.

KEYNOTES

(1) CONTRACTOR TO PROVIDE NEW 240V, 150A, 1-PHASE PANEL WITH NEW 150A MAIN CIRCUIT BREAKER. REFER TO ASSOCIATED 'EP' SHEET FOR LOCATION OF NEW PANEL.

(2) CONTRACTOR TO PROVIDE NEW 240V, 200A FUSED DISCONNECT WITH NEW 150A FUSES. EXTEND EXISTING CONDUIT AND CONDUCTORS TO NEW DISCONNECT. PROVIDE NEW CONDUCTORS FROM EXISTING SITE TRANSFORMER 'TR170' IF EXISTING CONDUCTORS REQUIRE UPSIZING.

1 BUILDING 110 ELECTRICAL DEMOLITION ONE-LINE
SCALE: NTS

2 BUILDING 110 ELECTRICAL REMODEL ONE-LINE
SCALE: NTS

Revisions:	Date:

CONSULTANT

ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD

A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: BUILDING 110 ELECTRICAL ONE-LINES & PANEL SCHEDULES

APPROVED: Project Director

FOR OFFICIAL USE ONLY (FOUO)

PHASE: 100% CONSTRUCTION DOCUMENTS

FLS: FULLY SPRINKLERED

PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES

LOCATION: FORT MEADE, SOUTH DAKOTA

ISSUE DATE: 11/05/2024 | CHECKED BY: MER | DRAWN BY: LAW

PROJECT NUMBER: 568-21-701

BUILDING NUMBER: 110

DRAWING NUMBER: 110-EJ-001

VA FORM 08 - 6231

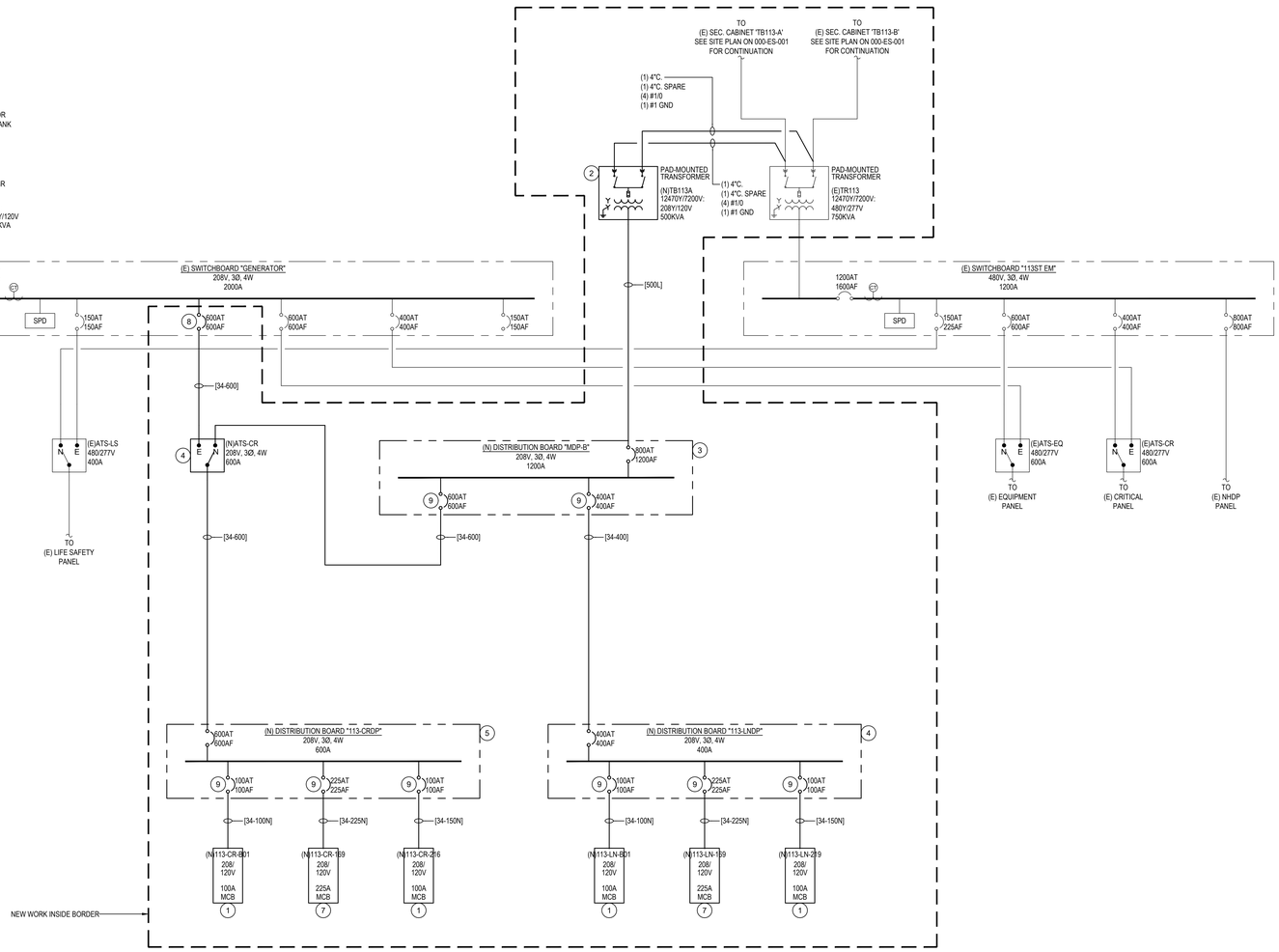
THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

GENERAL NOTES

1. COORDINATE ANY INTERRUPTIONS OF SERVICE FOR EXISTING EQUIPMENT WITH COR PRIOR TO DEMOLITION OR CONSTRUCTION.
2. REFER TO ELECTRICAL FEEDER SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION AND FEEDER REQUIREMENTS.

KEYNOTES

1. CONTRACTOR TO PROVIDE NEW 208V, 100A, 3-PHASE PANELBOARD WITH NEW 100A/3P MAIN CIRCUIT BREAKER. PROVIDE ALL CONDUITS AND CONDUCTORS AS REQUIRED FOR COMPLETE OPERATION.
2. CONTRACTOR TO PROVIDE NEW 500KVA, 12470:208 STEP-DOWN TRANSFORMER TO FEED NEW SWITCHBOARD SECTION. REFER TO SHEET 113-EP-001 FOR LOCATION AND SITE PLAN ON 000-ES-001 FOR ROUTING OF PRIMARY-SIDE FEEDS. PROVIDE ALL CONDUITS AND CONDUCTORS AS REQUIRED FOR COMPLETE OPERATION.
3. CONTRACTOR TO PROVIDE NEW 208V, 800A, 3-PHASE SWITCHBOARD SECTION WITH NEW 800A/3P MAIN CIRCUIT BREAKER. PROVIDE ALL CONDUITS AND CONDUCTORS AS REQUIRED FOR COMPLETE OPERATION.
4. CONTRACTOR TO PROVIDE NEW 208V, 600A, 3-PHASE AUTOMATIC TRANSFER SWITCH. PROVIDE ALL CONDUITS AND CONDUCTORS AS REQUIRED FOR COMPLETE OPERATION.
5. CONTRACTOR TO PROVIDE NEW 208V, 600A, 3-PHASE DISTRIBUTION BOARD WITH NEW 600A/3P MAIN CIRCUIT BREAKER. PROVIDE ALL CONDUITS AND CONDUCTORS AS REQUIRED FOR COMPLETE OPERATION.
6. CONTRACTOR TO PROVIDE NEW 208V, 400A, 3-PHASE DISTRIBUTION BOARD WITH NEW 250A/3P MAIN CIRCUIT BREAKER. PROVIDE ALL CONDUITS AND CONDUCTORS AS REQUIRED FOR COMPLETE OPERATION.
7. CONTRACTOR TO PROVIDE NEW 208V, 200A, 3-PHASE PANELBOARD WITH NEW 200A/3P MAIN CIRCUIT BREAKER. PROVIDE ALL CONDUITS AND CONDUCTORS AS REQUIRED FOR COMPLETE OPERATION.
8. CONTRACTOR TO PROVIDE NEW BRANCH BREAKER IN EXISTING SPACE TO FEED NEW EQUIPMENT. SIZE AS INDICATED ON THIS SHEET. MATCH EXISTING TYPE AND MANUFACTURER. ALL BRANCH BREAKERS SHALL BE 3-POLE UNLESS OTHERWISE NOTED.
9. CONTRACTOR TO PROVIDE NEW BRANCH BREAKER IN AVAILABLE SPACE TO FEED NEW EQUIPMENT. SIZE AS INDICATED ON THIS SHEET. ALL BRANCH BREAKERS SHALL BE 3-POLE UNLESS OTHERWISE NOTED.



FEEDER SCHEDULE					
1ϕ,2W+G (3 WIRES TOTAL)			3ϕ, 4W+G (5 WIRES TOTAL)		
CKT ID	RACEWAY/WIRE	CKT AMPS	CKT ID	CONDUIT AND WIRE	CKT AMPS
[12-20]	3/4"C, 2#12, #12G	20	[34-20]	3/4"C, 4#12, #12G	20
[12-30]	3/4"C, 2#10, #10G	30	[34-20N]	3/4"C, 3#12, 1#10N, #12G	20
[12-40]	3/4"C, 2#8, #10G	40	[34-30]	3/4"C, 4#10, #10G	30
[12-50]	3/4"C, 2#6, #10G	50	[34-30N]	3/4"C, 3#10, 1#8N, #10G	30
[12-60]	1"C, 2#4, #10G	60	[34-40]	1"C, 4#8, #10G	40
[12-70]	1"C, 2#4, #6G	70	[34-50]	1"C, 4#6, #10G	50
[12-80]	1-1/4"C, 2#2, #6G	80	[34-60]	1-1/4"C, 4#4, #10G	60
[12-90]	1-1/4"C, 2#2, #8G	90	[34-60N]	1-1/4"C, 3#4, 1#3N, #10G	60
[12-100]	1-1/4"C, 2#1, #8G	100	[34-70]	1-1/4"C, 4#4, #8G	70
[12-125]	1-1/4"C, 2#1, #6G	125	[34-80]	1-1/2"C, 4#2, #8G	80
[12-150]	1-1/4"C, 2#1/0, #6G	150	[34-90]	1-1/2"C, 4#2, #8G	90
[12-175]	1-1/2"C, 2#2/0, #6G	175	[34-100]	2"C, 4#1, #8G	100
[12-200]	1-1/2"C, 2#3/0, #6G	200	[34-100N]	2"C, 3#1, 1#1/0N, #8G	100
[12-225]	2"C, 2#4/0, #4G	225	[34-125]	2"C, 4#1, #6G	125
[12-250]	2-1/2"C, 2-250KCM, #4G	250	[34-150]	2"C, 4#1/0, #6G	150
[12-300]	2-1/2"C, 2-350KCM, #4G	300	[34-150N]	2"C, 3#1/0, 1#2/0N, #6G	150
[12-400]	2-SETS [2"C, 2#3/0, #3G]	400	[34-175]	2"C, 4#2/0, #6G	175
1ϕ, 3W+G (4 WIRES TOTAL)			[34-200]	2"C, 4#3/0, #6G	200
[13-100]	2"C, 4#1, #8G	100	[34-200N]	2-1/2"C, 3#3/0, 1#4/0N, #6G	200
[13-100N]	2"C, 3#1, 1#1/0N, #8G	100	[34-225]	2-1/2"C, 4#4/0, #4G	225
[13-150]	2"C, 4#1/0, #6G	150	[34-250]	3"C, 4-250KCM, #4G	250
[13-150N]	2"C, 3#1/0, 1#2/0N, #6G	150	[34-300]	3"C, 4-350KCM, #4G	300
[13-200]	2"C, 4#3/0, #6G	200	[34-400]	2-SETS [2-1/2"C, 4#3/0, #3G]	400
[13-200N]	2-1/2"C, 3#3/0, 1#4/0N, #6G	200	[34-400N]	2-SETS [2-1/2"C, 3#3/0, 1#4/0N, #3G]	400
			[34-500]	2-SETS [3"C, 4-250KCM, #2G]	500
			[34-600]	2-SETS [3"C, 4-350KCM, #1G]	600
			[34-700]	2-SETS [4"C, 4-500KCM, #1/0G]	700
			[34-800]	3-SETS [3"C, 4-300KCM, #1/0G]	800
3ϕ, 3W+G (4 WIRES TOTAL)			[34-1000]	3-SETS [4"C, 4-500KCM, #2/0G]	1000
CKT ID	CONDUIT AND WIRE	CKT AMPS	[34-1200]	4-SETS [3"C, 4-350KCM, #3/0G]	1200
[33-20]	3/4"C, 3#12, #12G	20	[34-1600]	4-SETS [4"C, 4-600KCM, #4/0G]	1600
[33-30]	3/4"C, 3#10, #10G	30	[34-2000]	5-SETS [4"C, 4-600KCM, 250KCM G]	2000
[33-40]	3/4"C, 3#8, #10G	40	480VΔ, 3ϕ, TRANSFORMER PRIMARY (3W+G)		
[33-50]	1"C, 3#6, #10G	50	CKT ID	CONDUIT AND WIRE	CKT AMPS
[33-60]	1"C, 3#4, #10G	60	[15H]	3/4"C, 3#10, #10G	30
[33-70]	1-1/4"C, 3#4, #8G	70	[30H]	1"C, 3#4, #10G	60
[33-80]	1-1/4"C, 3#2, #8G	80	[45H]	1-1/2"C, 3#1, #8G	100
[33-90]	1-1/4"C, 3#2, #6G	90	[75H]	1-1/2"C, 3#1/0, #6G	150
[33-100]	1-1/2"C, 3#1, #8G	100	[112H]	2"C, 3#3/0, #6G	200
[33-125]	1-1/2"C, 3#1, #6G	125	[150H]	2-1/2"C, 3-250KCM, #4G	250
[33-150]	1-1/2"C, 3#1/0, #6G	150	[225H]	2-SETS [2"C, 3#3/0, #3G]	400
[33-175]	2"C, 3#2/0, #6G	175	[300H]	2-SETS [3"C, 3-350KCM, #1G]	600
[33-200]	2"C, 3#3/0, #6G	200	[500H]	3-SETS [3"C, 3-300KCM, #1/0G]	800
[33-225]	2"C, 3#4/0, #4G	225	208Y/120V, 3ϕ, TRANSFORMER SECONDARY (4W+G)		
[33-250]	2-1/2"C, 3-250KCM, #4G	250	CKT ID	CONDUIT AND WIRE	CKT AMPS
[33-300]	2-1/2"C, 3-350KCM, #4G	300	[15L]	1-1/4"C, 4#4, #10G	60
[33-400]	2-SETS [2"C, 3#3/0, #3G]	400	[30L]	2"C, 4#1, #6G	100
[33-500]	2-SETS [2-1/2"C, 3-250KCM, #2G]	500	[45L]	2"C, 4#1/0, #6G	150
[33-600]	2-SETS [3"C, 3-350KCM, #1G]	600	[75L]	2-1/2"C, 4#4/0, #2G	225
[33-700]	2-SETS [3"C, 3-500KCM, #1/0G]	700	[112L]	2-SETS [2-1/2"C, 4#3/0, #1/0G]	400
[33-800]	3-SETS [3"C, 3-300KCM, #1/0G]	800	[150L]	2-SETS [3"C, 4-350KCM, #2/0G]	600
[33-1000]	3-SETS [3"C, 3-500KCM, #2/0G]	1000	[225L]	3-SETS [3"C, 4-300KCM, #2/0G]	800
[33-1200]	4-SETS [3"C, 3-350KCM, #3/0G]	1200	[300L]	3-SETS [4"C, 4-500KCM, #3/0G]	1000
[33-1600]	4-SETS [4"C, 3-600KCM, #4/0G]	1600	[500L]	4-SETS [4"C, 4-600KCM, #4/0G]	1600
[33-2000]	5-SETS [4"C, 3-600KCM, 250KCM G]	2000	[750L]	6-SETS [4"C, 4-600KCM, 250KCM G]	2500

Revisions:	Date:

CONSULTANT
ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD
A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: BUILDING 113 ELECTRICAL ONE-LINE DIAGRAM
PHASE: 100% CONSTRUCTION DOCUMENTS
PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES
PROJECT NUMBER: 568-21-701
BUILDING NUMBER: 113
APPROVED: Project Director: FOR OFFICIAL USE ONLY (FOUO)
FLS: FULLY SPRINKLERED
LOCATION: FORT MEADE, SOUTH DAKOTA
ISSUE DATE: 11/05/2024
CHECKED BY: MER
DRAWN BY: LAW
DRAWING NUMBER: 113-EJ-001

VA FORM 08 - 6231

208/120 VOLT | 3 PHASE | 4 WIRE
LOCATION: B14B | SUPPLIED BY: TB113A
SERVING: BLDG 113 TR'S

PANEL (N)MDP-B

800 AMP BUS RATING | 800 AMP MAIN BREAKER
SCCR: 22,000 A | AFC:
FEED: TOP | MOUNTING: SURFACE

CKT	LOAD	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD	CKT
1	PANEL '113-CRDP-B14B' (1)	P	96.968	600/3	A	250/3	62.872	P	PANEL '113-LNDP-B14B' (1)	2
3	-	-	-	-	B	-	-	-	-	4
5	-	-	-	-	C	-	-	-	-	6
7	SPACE	S	-	-	A	-	-	S	SPACE	8
9	SPACE	S	-	-	B	-	-	S	SPACE	10
11	SPACE	S	-	-	C	-	-	S	SPACE	12
13	SPACE	S	-	-	A	-	-	S	SPACE	14
15	SPACE	S	-	-	B	-	-	S	SPACE	16
17	SPACE	S	-	-	C	-	-	S	SPACE	18
19	SPACE	S	-	-	A	-	-	S	SPACE	20
21	SPACE	S	-	-	B	-	-	S	SPACE	22
23	SPACE	S	-	-	C	-	-	S	SPACE	24
25	SPACE	S	-	-	A	-	-	S	SPACE	26
27	SPACE	S	-	-	B	-	-	S	SPACE	28
29	SPACE	S	-	-	C	-	-	S	SPACE	30
31	SPACE	S	-	-	A	-	-	S	SPACE	32
33	SPACE	S	-	-	B	-	-	S	SPACE	34
35	SPACE	S	-	-	C	-	-	S	SPACE	36
37	SPACE	S	-	-	A	-	-	S	SPACE	38
39	SPACE	S	-	-	B	-	-	S	SPACE	40
41	SPACE	S	-	-	C	-	-	S	SPACE	42

PHASE LOAD PHASE A=_____KVA PHASE B=_____KVA PHASE C=_____KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS	MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS
PANEL (N)MDP-B										KVA AMP
PANEL 113-CRDP-B141B		55.00			0.99	33.78	7.20		4.16	96.97 KVA 269.16 AMP
PANEL 113-NDP-B14B		60.00			0.17	2.70				62.87 KVA 174.51 AMP
CONNECTED LOAD		115.00			1.16	33.78	9.90		4.16	159.84 KVA 443.67 AMP
CALCULATED LOAD		115.00			1.45	33.78	9.90		1.04	161.17 KVA 447.36 AMP

NOTES: NEW WORK IN BOLD
1. PROVIDE NEW BREAKER TO FEED EXISTING RELOCATED LOAD. MATCH EXISTING TYPE AND MANUFACTURER.
2. EXISTING LOAD

208/120 VOLT | 3 PHASE | 4 WIRE
LOCATION: | SUPPLIED BY: ATS-CRDP-B14B
SERVING:

PANEL (N)113-CRDP-B14B

600 AMP BUS RATING | 600 AMP MAIN BREAKER
SCCR: 22,000 A | AFC:
FEED: TOP | MOUNTING: SURFACE

CKT	LOAD	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD	CKT
1	PANEL '113-CR-B01' (1)	P	19.024	100/3	A	200/3	57.976	P	PANEL '113-CR-169' (1)	2
3	-	-	-	-	B	-	-	-	-	4
5	-	-	-	-	C	-	-	-	-	6
7	PANEL '113-CR-216' (1)	P	19.968	100/3	A	-	-	S	SPACE	8
9	-	-	-	-	B	-	-	S	SPACE	10
11	-	-	-	-	C	-	-	S	SPACE	12
13	SPACE	S	-	-	A	-	-	S	SPACE	14
15	SPACE	S	-	-	B	-	-	S	SPACE	16
17	SPACE	S	-	-	C	-	-	S	SPACE	18
19	SPACE	S	-	-	A	-	-	S	SPACE	20
21	SPACE	S	-	-	B	-	-	S	SPACE	22
23	SPACE	S	-	-	C	-	-	S	SPACE	24
25	SPACE	S	-	-	A	-	-	S	SPACE	26
27	SPACE	S	-	-	B	-	-	S	SPACE	28
29	SPACE	S	-	-	C	-	-	S	SPACE	30
31	SPACE	S	-	-	A	-	-	S	SPACE	32
33	SPACE	S	-	-	B	-	-	S	SPACE	34
35	SPACE	S	-	-	C	-	-	S	SPACE	36
37	SPACE	S	-	-	A	-	-	S	SPACE	38
39	SPACE	S	-	-	B	-	-	S	SPACE	40
41	SPACE	S	-	-	C	-	-	S	SPACE	42

PHASE LOAD PHASE A=_____KVA PHASE B=_____KVA PHASE C=_____KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS	MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS
PANEL (N)113-CRDP-B14B										KVA AMP
PANEL 113-CR-B01		5.00			0.10	12.48	1.44		4.16	19.02 KVA 52.81 AMP
PANEL 113-CR-169		40.00			0.68	12.98	4.32		4.16	57.98 KVA 160.93 AMP
PANEL 113-CR-216		10.00			0.21	8.32	1.44		4.16	19.97 KVA 55.43 AMP
CONNECTED LOAD		55.00			0.99	33.78	7.20		4.16	96.97 KVA 269.16 AMP
CALCULATED LOAD		55.00			1.24	33.78	7.20		1.04	98.26 KVA 272.73 AMP

NOTES: NEW WORK IN BOLD
1. PROVIDE NEW BREAKER TO FEED EXISTING RELOCATED LOAD. MATCH EXISTING TYPE AND MANUFACTURER.
2. EXISTING LOAD

208/120 VOLT | 3 PHASE | 4 WIRE
LOCATION: | SUPPLIED BY: MDP-B
SERVING:

PANEL (N)113-LNDP-B14B

400 AMP BUS RATING | 250 AMP MAIN BREAKER
SCCR: 22,000 A | AFC:
FEED: TOP | MOUNTING: SURFACE

CKT	LOAD	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD	CKT
1	PANEL '113-LN-B01' (1)	P	5.180	100/3	A	225/3	42.692	P	PANEL '113-LN-169' (1)	2
3	-	-	-	-	B	-	-	-	-	4
5	-	-	-	-	C	-	-	-	-	6
7	PANEL '113-LN-216' (1)	P	15.000	100/3	A	-	-	S	SPACE	8
9	-	-	-	-	B	-	-	S	SPACE	10
11	-	-	-	-	C	-	-	S	SPACE	12
13	SPACE	S	-	-	A	-	-	S	SPACE	14
15	SPACE	S	-	-	B	-	-	S	SPACE	16
17	SPACE	S	-	-	C	-	-	S	SPACE	18
19	SPACE	S	-	-	A	-	-	S	SPACE	20
21	SPACE	S	-	-	B	-	-	S	SPACE	22
23	SPACE	S	-	-	C	-	-	S	SPACE	24
25	SPACE	S	-	-	A	-	-	S	SPACE	26
27	SPACE	S	-	-	B	-	-	S	SPACE	28
29	SPACE	S	-	-	C	-	-	S	SPACE	30
31	SPACE	S	-	-	A	-	-	S	SPACE	32
33	SPACE	S	-	-	B	-	-	S	SPACE	34
35	SPACE	S	-	-	C	-	-	S	SPACE	36
37	SPACE	S	-	-	A	-	-	S	SPACE	38
39	SPACE	S	-	-	B	-	-	S	SPACE	40
41	SPACE	S	-	-	C	-	-	S	SPACE	42

PHASE LOAD PHASE A=_____KVA PHASE B=_____KVA PHASE C=_____KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS	MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS
PANEL (N)113-LNDP-B14B										KVA AMP
PANEL 113-LN-B01		5.00					0.18			5.18 KVA 14.38 AMP
PANEL 113-LN-169		40.00			0.17		2.52			42.69 KVA 118.50 AMP
PANEL 113-LN-216		15.00								15.00 KVA 41.64 AMP
CONNECTED LOAD		60.00			0.17		2.70			62.87 KVA 174.51 AMP
CALCULATED LOAD		60.00			0.21		2.70			62.91 KVA 174.63 AMP

NOTES: NEW WORK IN BOLD
1. PROVIDE NEW BREAKER TO FEED EXISTING RELOCATED LOAD. MATCH EXISTING TYPE AND MANUFACTURER.
2. EXISTING LOAD

208/120 VOLT | 3 PHASE | 4 WIRE
LOCATION: | SUPPLIED BY: 113-CRDP-B14B
SERVING:

PANEL (N)113-CR-B01

100 AMP BUS RATING | 100 AMP MAIN BREAKER
SCCR: 22,000 A | AFC:
FEED: TOP | MOUNTING: SURFACE

CKT	LOAD	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD	CKT
1	RK-B01-1A (1)	D	5.000	20/3	A	20/1	0.720	R	RM B01 REC (1)	2
3	-	-	-	-	B	20/1	0.720	R	RM B01 REC (1)	4
5	-	-	-	-	C	20/1	0.104	L	RM B01 LTG (1)	6
7	113-CU-1 (1)	M	4.160	25/2	A	25/2	4.160	M	113-CU-6 (1)	8
9	-	-	-	-	B	-	-	-	-	10
11	113-CU-4 (1)	M	4.160	25/2	C	20/1	-	S	SPARE (1)	12
13	-	-	-	-	A	20/1	-	S	SPARE (1)	14
15	SPARE (1)	S	-	20/1	B	20/1	-	S	SPARE (1)	16
17	SPARE (1)	S	-	20/1	C	-	-	S	SPACE	18
19	SPARE (1)	S	-	20/1	A	-	-	S	SPACE	20
21	SPACE	S	-	-	B	-	-	S	SPACE	22
23	SPACE	S	-	-	C	-	-	S	SPACE	24
25	SPACE	S	-	-	A	-	-	S	SPACE	26
27	SPACE	S	-	-	B	-	-	S	SPACE	28
29	SPACE	S	-	-	C	-	-	S	SPACE	30
31	SPACE	S	-	-	A	-	-	S	SPACE	32
33	SPACE	S	-	-	B	-	-	S	SPACE	34
35	SPACE	S	-	-	C	-	-	S	SPACE	36
37	SPACE	S	-	-	A	-	-	S	SPACE	38
39	SPACE	S	-	-	B	-	-	S	SPACE	40
41	SPACE	S	-	-	C	-	-	S	SPACE	42

PHASE LOAD PHASE A= 8.63 KVA PHASE B= 6.55 KVA PHASE C= 3.85 KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS	MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS
CONNECTED LOAD		5.00			0.10	12.48	1.44		4.16	19.02 KVA 52.81 AMP
CALCULATED LOAD		5.00			0.13	12.48	1.44		1.04	20.09 KVA 55.76 AMP

NOTES: NEW WORK IN BOLD
1. PROVIDE NEW BRANCH BREAKER. SIZE AS INDICATED ON THIS SCHEDULE.

208/120 VOLT | 3 PHASE | 4 WIRE
LOCATION: | SUPPLIED BY: 113-CRDP-B14B
SERVING:

PANEL (N)113-CR-169

200 AMP BUS RATING | 200 AMP MAIN BREAKER
SCCR: 22,000 A | AFC:
FEED: TOP | MOUNTING: SURFACE

CKT	LOAD	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD	CKT
1	ZP-TCS103-1A (1)	D	15.000	60/3	A	30/3	10.000	D	RK-169-1A (1)	2
3	-	-	-	-	B	-	-	-	-	4
5	-	-	-	-	C	-	-	-	-	6
7	113-CU-2 (1)	M	4.160	25/2	A	20/3	5.000	D	RK-TCS103-1A (1)	8
9	-	-	-	-	B	-	-	-	-	10
11	RM 169 REC (1)	R	0.720	20/1	C	-	-	-	-	12
13	RM 169 REC (1)	R	0.720	20/1	A	30/3	10.000	D	RK-187A-1A (1)	14
15	RM TCS103 REC (1)	R	0.720	20/1	B	-	-	-	-	16
17	RM TCS103 REC (1)	R	0.720	20/1	C	-	-	-	-	18
19	RM 187A REC (1)	R	0.720	20/1	A	15/1	0.500	M	113-PU-1 (1)	20
21	RM 187A REC (1)	R	0.720	20/1	B	25/2	4.160	M	113-OU-4A (1)	22
23	RM 169 LIGHTS (1)	L	0.312	20/1	C	-	-	-	-	24
25	RM TCS103 LIGHTS (1)	L	0.208	20/1	A	25/2	4.160	M	113-OU-4B (1)	26
27	RM 187A LIGHTS (1)	L	0.156	20/1	B	-	-	-	-	28
29	SPARE (1)	S	-	20/1	C	20/1	-	S	SPARE (1)	30
31	SPARE (1)	S	-	20/1	A	20/1	-	S	SPARE (1)	32
33	SPARE (1)	S	-	20/1	B	20/1	-	S	SPARE (1)	34
35	SPACE	S	-	-	C	-	-	S	SPACE	36
37	SPACE	S	-	-	A	-	-	S	SPACE	38
39	SPACE	S	-	-	B	-	-	S	SPACE	40
41	SPACE	S	-	-	C	-	-	S	SPACE	42

PHASE LOAD PHASE A= 19.64 KVA PHASE B= 21.17 KVA PHASE C= 17.17 KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS	MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS
CONNECTED LOAD		40.00			0.68	12.98	4.32		4.16	57.98 KVA 160.93 AMP
CALCULATED LOAD		40.00			0.85	12.98	4.32		1.04	59.19 KVA 164.28 AMP

NOTES: NEW WORK IN BOLD
PROVIDE PANEL WITH 100% RATED MAIN BREAKER. SIZE AS INDICATED ON THIS SCHEDULE.
1. PROVIDE NEW BRANCH BREAKER. SIZE AS INDICATED ON THIS SCHEDULE.

208/120 VOLT | 3 PHASE | 4 WIRE
LOCATION: | SUPPLIED BY: 113-CRDP-B14B
SERVING:

PANEL (N)113-CR-216

100 AMP BUS RATING | 100 AMP MAIN BREAKER
SCCR: 22,000 A | AFC:
FEED: TOP | MOUNTING: SURFACE

CKT	LOAD	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD	CKT
1	RM 216 LIGHTS (1)	L	0.208	20/1	A	20/1	-	S	SPARE (1)	2
3	RM 216 REC (1)	R	0.720	20/1	B	25/2	4.160	M	113-CU-5 (1)	4
5	RM 216 REC (1)	R	0.720	20/1	C	-	-	-	-	6
7	RK-216-1A (1)	D	10.000	30/3	A	20/1	-	S	SPARE (1)	8
9	-	-	-	-	B	20/1	-	S	SPARE (1)	10
11	-	-	-	-	C	25/2	4.160	M	113-CU-3 (1)	12
13	SPARE (1)	S	-	20/1	A	-	-	S	SPACE	14
15	SPARE (1)	S	-	20/1	B	-	-	S	SPACE	16
17	SPARE (1)	S	-	20/1	C	-	-	S	SPACE	18
19	SPACE	S	-	-	A	-	-	S	SPACE	20
21	SPACE	S	-	-	B	-	-	S	SPACE	22
23	SPACE	S	-	-	C	-	-	S	SPACE	24
25	SPACE	S	-	-	A	-	-	S	SPACE	26
27	SPACE	S	-	-	B	-	-	S	SPACE	28
29	SPACE	S	-	-	C	-	-	S	SPACE	30
31	SPACE	S	-	-	A	-	-	S	SPACE	32
33	SPACE	S	-	-	B	-	-	S	SPACE	34
35	SPACE	S	-	-	C	-	-	S	SPACE	36
37	SPACE	S	-	-	A	-	-	S	SPACE	38
39	SPACE	S	-	-	B	-	-	S	SPACE	40
41	SPACE	S	-	-	C	-	-	S	SPACE	42

PHASE LOAD PHASE A= 5.62 KVA PHASE B= 6.13 KVA PHASE C= 8.21 KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS	MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS
CONNECTED LOAD		10.00			0.21	8.32	1.44		4.16	19.97 KVA 55.43 AMP
CALCULATED LOAD		10.00			0.26	8.32	1.44		1.04	21.06 KVA 58.46 AMP

NOTES: NEW WORK IN BOLD
1. PROVIDE NEW BRANCH BREAKER. SIZE AS INDICATED ON THIS SCHEDULE.

208/120 VOLT | 3 PHASE | 4 WIRE
LOCATION: | SUPPLIED BY: 113-LNDP-B14B
SERVING:

PANEL (N)113-LN-B01

100 AMP BUS RATING | 100 AMP MAIN BREAKER
SCCR: 22,000 A | AFC:
FEED: TOP | MOUNTING: SURFACE

CKT	LOAD	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD	CKT
1	RK-B01-1B (1)	D	5.000	20/3	A	20/1	-	S	SPARE (1)	2
3	-	-	-	-	B	20/1	-	S	SPARE (1)	4
5	-	-	-	-	C	20/1	-	S	SPARE (1)	6
7	113-RECP-4 (1)	R	0.180	20/1	A	-	-	S	SPACE	8
9	SPARE (1)	S	-	20/1	B	-	-	S	SPACE	10
11	SPARE (1)	S	-	20/1	C	-	-	S	SPACE	12
13	SPARE (1)	S	-	20/1	A	-	-	S	SPACE	14
15	SPACE	S	-	-	B	-	-	S	SPACE	16
17	SPACE	S	-	-	C	-	-	S	SPACE	18
19	SPACE	S	-	-	A	-	-	S	SPACE	20
21	SPACE	S	-	-	B	-	-	S	SPACE	22
23	SPACE	S	-	-	C	-	-	S	SPACE	24
25	SPACE	S	-	-	A	-	-	S	SPACE	26
27	SPACE	S	-	-	B	-	-	S	SPACE	28
29	SPACE	S	-	-	C	-	-	S	SPACE	30
31	SPACE	S	-	-	A	-	-	S	SPACE	32
33	SPACE	S	-	-	B	-	-	S	SPACE	34
35	SPACE	S	-	-	C	-	-	S	SPACE	36
37	SPACE	S	-	-	A	-	-	S	SPACE	38
39	SPACE	S	-	-	B	-	-	S	SPACE	40
41	SPACE	S	-	-	C	-	-	S	SPACE	42

PHASE LOAD PHASE A= 1.85 KVA PHASE B= 1.67 KVA PHASE C= 1.67 KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS	MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS
CONNECTED LOAD		5.00					0.18			5.18 KVA 14.38 AMP
CALCULATED LOAD		5.00					0.18			5.18 KVA 14.38 AMP

NOTES: NEW WORK IN BOLD
1. PROVIDE NEW BRANCH BREAKER. SIZE AS INDICATED ON THIS SCHEDULE.

208/120 VOLT | 3 PHASE | 4 WIRE
LOCATION: RM 169 | SUPPLIED BY: 113-LNDP-B14B
SERVING: TR EQUIPMENT

PANEL (N)113-LN-169

200 AMP BUS RATING | 200 AMP MAIN BREAKER
SCCR: 22,000 A | AFC:
FEED: TOP | MOUNTING: SURFACE

CKT	LOAD	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD	CKT
1	113-RECP-1 (1)	R	0.180	20/1	A	20/1	0.180	R	113-RECP-3 (1)	2
3	113-RECP-2 (1)	R	0.180	20/1	B	20/1	0.180	R	113-RECP-5 (1)	4
5	RK-TCS-103-1B (1)	D	5.000	20/3	C	30/3	10.000	D	RK-169-1B (1)	6
7	-	-	-	-	A	-	-	-	-	8
9	-	-	-	-	B	-	-	-	-	10
11	RK-187A-1B (1)	D	10.000	30/3	C	60/3	15.000	D	ZP-TCS103-1B (1)	12
13	-	-	-	-	A	-	-	-	-	14
15	-	-	-	-	B	-	-	-	-	16
17	RM 192 REC (1)	R	0.900	20/1	C	20/1	-	S	SPARE (1)	18
19	RM 192A REC (1)	R	0.900	20/1	A	20/1	-	S	SPARE (1)	20
21	RM 192/192A LIGHTS (1)	L	0.172	20/1	B	20/1	-	S	SPARE (1)	22
23	SPARE (1)	S	-	20/1	C	-	-	S	SPACE	24
25	SPARE (1)	S	-	20/1	A	-	-	S	SPACE	26
27	SPARE (1)	S	-	20/1	B	-	-	S	SPACE	28
29	SPACE	S	-	-	C	-	-	S	SPACE	30
31	SPACE	S	-	-	A	-	-	S	SPACE	32
33	SPACE	S	-	-	B	-	-	S	SPACE	34
35	SPACE	S	-	-	C	-	-	S	SPACE	36
37	SPACE	S	-	-	A	-	-	S	SPACE	38
39	SPACE	S	-	-	B	-	-	S	SPACE	40
41	SPACE	S	-	-	C	-	-	S	SPACE	42

PHASE LOAD PHASE A= 14.59 KVA PHASE B= 13.86 KVA PHASE C= 14.23 KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS	MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS
CONNECTED LOAD		40.00			0.17		2.52			42.69 KVA 118.50 AMP
CALCULATED LOAD		40.00			0.21		2.52			42.73 KVA 118.62 AMP

NOTES: NEW WORK IN BOLD
1. PROVIDE NEW BRANCH BREAKER. SIZE AS INDICATED ON THIS SCHEDULE.

208/120 VOLT | 3 PHASE | 4 WIRE
LOCATION: | SUPPLIED BY: 113-LNDP-B14B
SERVING:

PANEL (N)113-LN-216

100 AMP BUS RATING | 100 AMP MAIN BREAKER
SCCR: 22,000 A | AFC:
FEED: TOP | MOUNTING: SURFACE

CKT	LOAD	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD	CKT
1	ZP-169-1A (1)	D	15.000	30/3	A	20/1	-	S	SPARE (1)	2
3	-	-	-	-	B	20/1	-	S	SPARE (1)	4
5	-	-	-	-	C	20/1	-	S	SPARE (1)	6
7	SPARE (1)	S	-	20/1	A	-	-	S	SPACE	8
9	SPARE (1)	S	-	20/1	B	-	-	S	SPACE	10
11	SPARE (1)	S	-	20/1	C	-	-	S	SPACE	12
13	SPACE	S	-	-	A	-	-	S	SPACE	14
15	SPACE	S	-	-	B	-	-	S	SPACE	16
17	SPACE	S	-	-	C	-	-	S	SPACE	18
19	SPACE	S	-	-	A	-	-	S	SPACE	20
21	SPACE	S	-	-	B	-	-	S	SPACE	22
23	SPACE	S	-	-	C	-	-	S	SPACE	24
25	SPACE	S	-	-	A	-	-	S	SPACE	26
27	SPACE	S	-	-	B	-	-	S	SPACE	28
29	SPACE	S	-	-	C	-	-	S	SPACE	30
31	SPACE	S	-	-	A	-	-	S	SPACE	32
33	SPACE	S	-	-	B	-	-	S	SPACE	34
35	SPACE	S	-	-	C	-	-	S	SPACE	36
37	SPACE	S	-	-	A	-	-	S	SPACE	38
39	SPACE	S	-	-	B	-	-	S	SPACE	40
41	SPACE	S	-	-	C	-	-	S	SPACE	42

PHASE LOAD PHASE A= 5.00 KVA PHASE B= 5.00 KVA PHASE C= 5.00 KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS	MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS
CONNECTED LOAD		15.00								15.00 KVA 41.64 AMP
CALCULATED LOAD		15.00								15.00 KVA 41.64 AMP

NOTES: NEW WORK IN BOLD
1. PROVIDE NEW BRANCH BREAKER. SIZE AS INDICATED ON THIS SCHEDULE.

Revisions:	Date:

CONSULTANT
ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD
A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP
REGISTERED PROFESSIONAL ENGINEER — STATE OF WASHINGTON — ADAM D. GODDIN

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

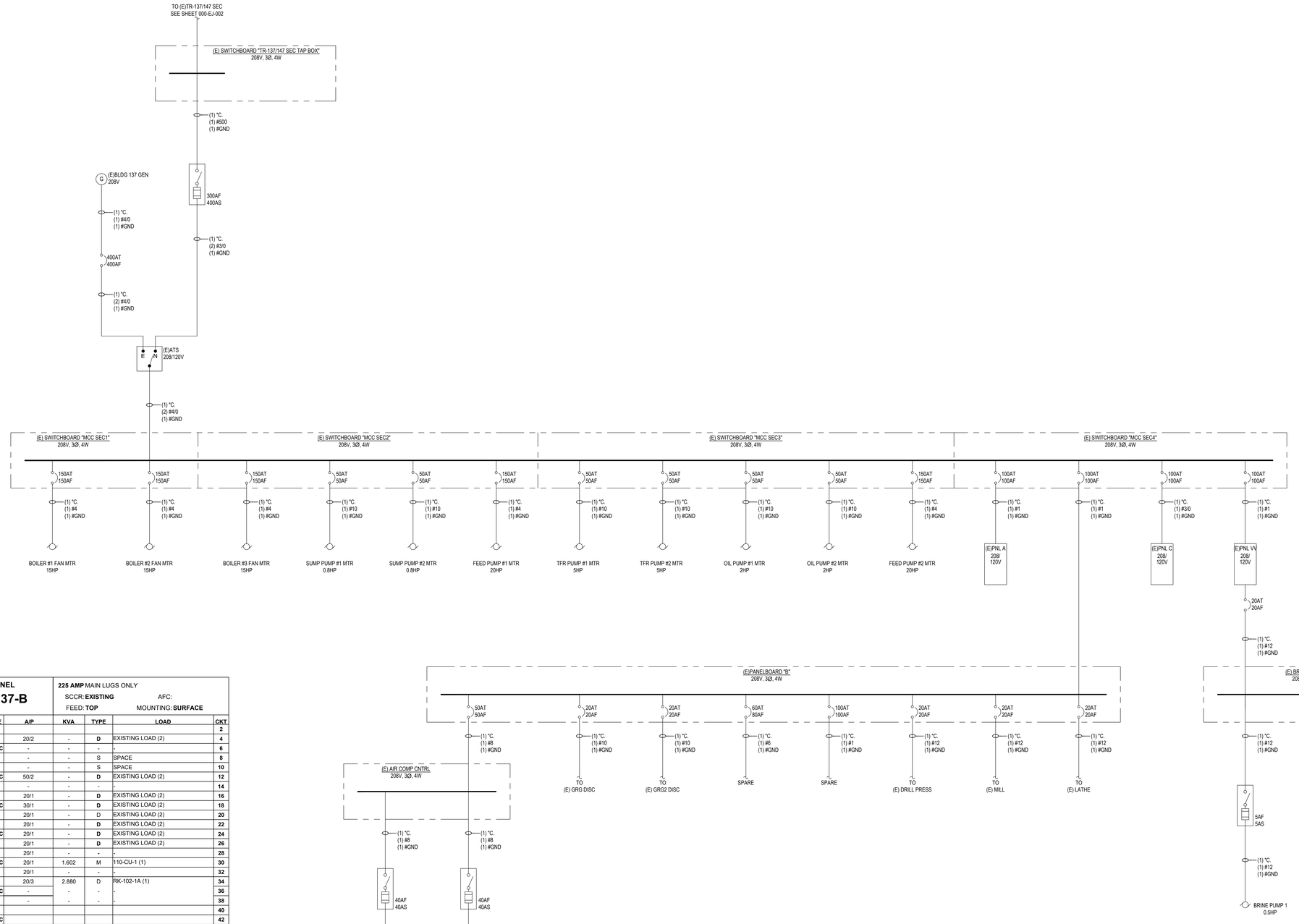
VA U.S. Department of Veterans Affairs

DRAWING TITLE: BUILDING 113 ELECTICAL PANEL SCHEDULES
PHASE: 100% CONSTRUCTION DOCUMENTS
PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES
PROJECT NUMBER: 568-21-701
BUILDING NUMBER: 113
APPROVED: Project Director
FLS: FULLY SPRINKLERED
LOCATION: FORT MEADE, SOUTH DAKOTA
ISSUE DATE: 11/05/2024 | CHECKED BY: MER | DRAWN BY: LAW
DRAWING NUMBER: 113-EJ-002

FOR OFFICIAL USE ONLY (FOUO)

VA FORM 08 - 6231

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.



1 BLDG 137 ELECTRICAL ONE-LINE
SCALE: NTS

208/120 VOLT	3 PHASE	4 WIRE	PANEL	225 AMP MAIN LUGS ONLY
LOCATION: BOILER ROOM	SUPPLIED BY:		(E)137-B	SCCR: EXISTING AFC:
SERVING: BUILDING 137				FEED: TOP MOUNTING: SURFACE

CKT	LOAD	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD	CKT
1					A					2
3					B	20/2	-	D	EXISTING LOAD (2)	4
5	RK-104-1A (1)	D	1.440	30/1	C	-	-	-	-	6
7	RK-104-1B (1)	D	1.440	30/1	A	-	-	S	SPACE	8
9	137-CU-1 (1)	M	4.160	25/2	B	-	-	S	SPACE	10
11	-	-	-	-	C	50/2	-	D	EXISTING LOAD (2)	12
13	137-RECP-1 (1)	R	0.180	20/1	A	-	-	-	-	14
15	SPACE	D	-	20/1	B	20/1	-	D	EXISTING LOAD (2)	16
17	SPACE	D	-	20/1	C	30/1	-	D	EXISTING LOAD (2)	18
19	SPACE	D	-	15/1	A	20/1	-	D	EXISTING LOAD (2)	20
21	SPACE	D	-	15/1	B	20/1	-	D	EXISTING LOAD (2)	22
23	SPACE	D	-	20/1	C	20/1	-	D	EXISTING LOAD (2)	24
25	EXISTING LOAD (2)	D	-	20/2	A	20/1	-	D	EXISTING LOAD (2)	26
27	-	-	-	-	B	20/1	-	-	-	28
29	EXISTING LOAD (2)	D	-	20/3	C	20/1	1.602	M	110-CU-1 (1)	30
31	-	-	-	-	A	20/1	-	-	-	32
33	-	-	-	-	B	20/3	2.880	D	RK-102-1A (1)	34
35	EXISTING LOAD (2)	D	-	20/3	C	-	-	-	-	36
37	-	-	-	-	A	-	-	-	-	38
39	-	-	-	-	B					40
41					C					42

PHASE LOAD PHASE A= #VALUE! KVA PHASE B= #VALUE! KVA PHASE C= #VALUE! KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS		MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS	
CONNECTED LOAD		5.76					5.76	0.18		4.16	11.70 KVA	32.48 AMP
CALCULATED LOAD		5.76					5.76	0.18		1.04	12.74 KVA	35.37 AMP

NOTES: NEW WORK IN BOLD
1. PROVIDE NEW BREAKER SIZE AS INDICATED ON THIS SCHEDULE. MATCH EXISTING TYPE AND MANUFACTURER.
2. EXISTING LOAD

Revisions:	Date:

CONSULTANT
ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD
A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP
EDWARD LAW — STATE OF WASHINGTON — 49709 — REGISTERED PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

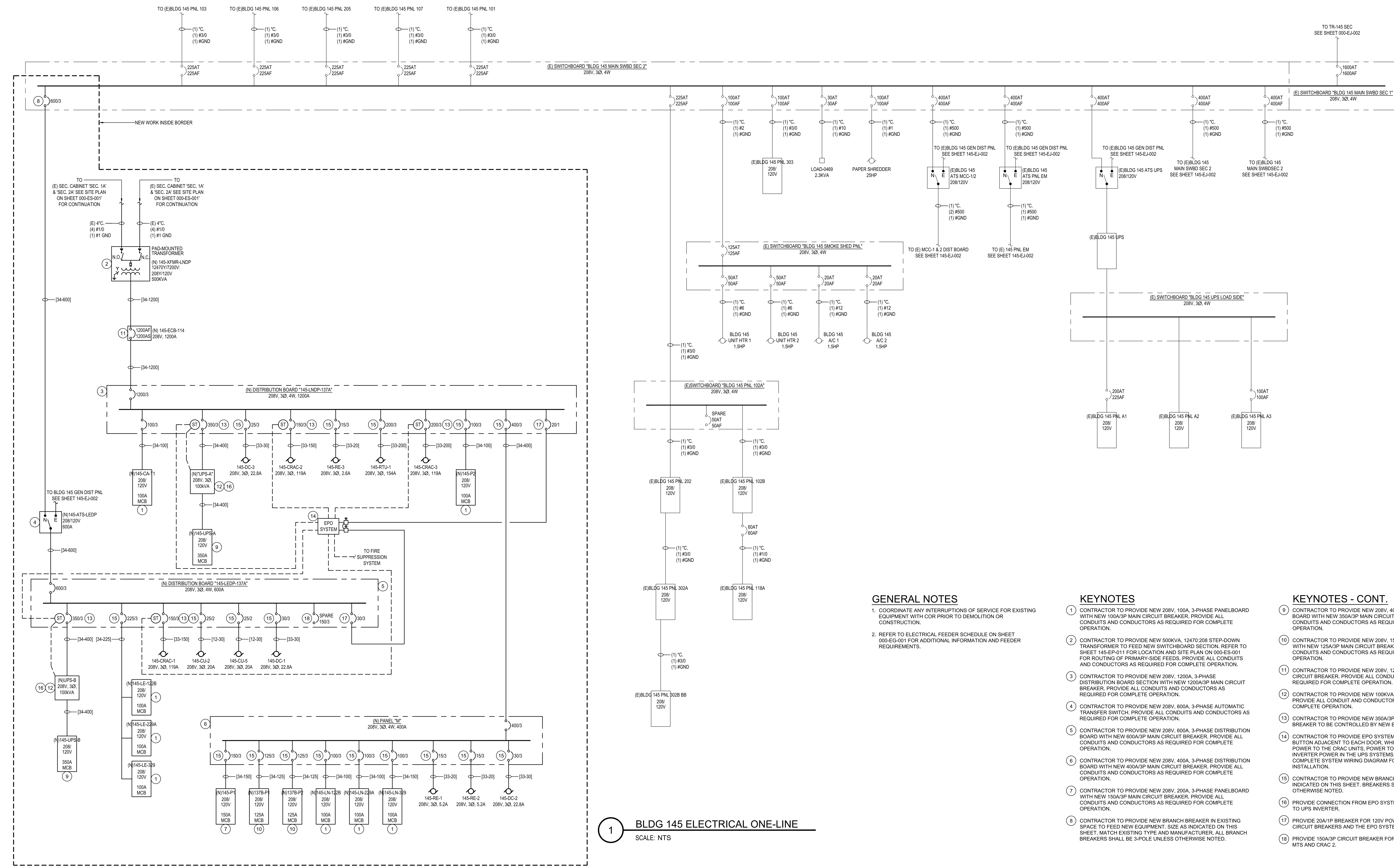
VA U.S. Department of Veterans Affairs

DRAWING TITLE: BUILDING 137 ELECTRICAL ONE-LINE & PANEL SCHEDULES
PHASE: 100% CONSTRUCTION DOCUMENTS
PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES
PROJECT NUMBER: 568-21-701
BUILDING NUMBER: 137
APPROVED: Project Director
FLS: FULLY SPRINKLERED
LOCATION: FORT MEADE, SOUTH DAKOTA
ISSUE DATE: 11/05/2024
CHECKED BY: MER
DRAWN BY: LAW
DRAWING NUMBER: 137-EJ-001

FOR OFFICIAL USE ONLY (FOUO)

VA FORM 08 - 6231

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.



1 BLDG 145 ELECTRICAL ONE-LINE
SCALE: NTS

GENERAL NOTES

1. COORDINATE ANY INTERRUPTIONS OF SERVICE FOR EXISTING EQUIPMENT WITH COR PRIOR TO DEMOLITION OR CONSTRUCTION.
2. REFER TO ELECTRICAL FEEDER SCHEDULE ON SHEET 000-EG-001 FOR ADDITIONAL INFORMATION AND FEEDER REQUIREMENTS.

KEYNOTES

1. CONTRACTOR TO PROVIDE NEW 208V, 100A, 3-PHASE PANELBOARD WITH NEW 100A/3P MAIN CIRCUIT BREAKER. PROVIDE ALL CONDUITS AND CONDUCTORS AS REQUIRED FOR COMPLETE OPERATION.
2. CONTRACTOR TO PROVIDE NEW 500KVA, 12470:208 STEP-DOWN TRANSFORMER TO FEED NEW SWITCHBOARD SECTION. REFER TO SHEET 145-EP-011 FOR LOCATION AND SITE PLAN ON 000-ES-001 FOR ROUTING OF PRIMARY-SIDE FEEDS. PROVIDE ALL CONDUITS AND CONDUCTORS AS REQUIRED FOR COMPLETE OPERATION.
3. CONTRACTOR TO PROVIDE NEW 208V, 1200A, 3-PHASE DISTRIBUTION BOARD SECTION WITH NEW 1200A/3P MAIN CIRCUIT BREAKER. PROVIDE ALL CONDUITS AND CONDUCTORS AS REQUIRED FOR COMPLETE OPERATION.
4. CONTRACTOR TO PROVIDE NEW 208V, 600A, 3-PHASE AUTOMATIC TRANSFER SWITCH. PROVIDE ALL CONDUITS AND CONDUCTORS AS REQUIRED FOR COMPLETE OPERATION.
5. CONTRACTOR TO PROVIDE NEW 208V, 600A, 3-PHASE DISTRIBUTION BOARD WITH NEW 600A/3P MAIN CIRCUIT BREAKER. PROVIDE ALL CONDUITS AND CONDUCTORS AS REQUIRED FOR COMPLETE OPERATION.
6. CONTRACTOR TO PROVIDE NEW 208V, 400A, 3-PHASE DISTRIBUTION BOARD WITH NEW 400A/3P MAIN CIRCUIT BREAKER. PROVIDE ALL CONDUITS AND CONDUCTORS AS REQUIRED FOR COMPLETE OPERATION.
7. CONTRACTOR TO PROVIDE NEW 208V, 200A, 3-PHASE PANELBOARD WITH NEW 150A/3P MAIN CIRCUIT BREAKER. PROVIDE ALL CONDUITS AND CONDUCTORS AS REQUIRED FOR COMPLETE OPERATION.
8. CONTRACTOR TO PROVIDE NEW BRANCH BREAKER IN EXISTING SPACE TO FEED NEW EQUIPMENT. SIZE AS INDICATED ON THIS SHEET. MATCH EXISTING TYPE AND MANUFACTURER. ALL BRANCH BREAKERS SHALL BE 3-POLE UNLESS OTHERWISE NOTED.

KEYNOTES - CONT.

9. CONTRACTOR TO PROVIDE NEW 208V, 400A, 3-PHASE DISTRIBUTION BOARD WITH NEW 350A/3P MAIN CIRCUIT BREAKER. PROVIDE ALL CONDUITS AND CONDUCTORS AS REQUIRED FOR COMPLETE OPERATION.
10. CONTRACTOR TO PROVIDE NEW 208V, 150A, 3-PHASE PANELBOARD WITH NEW 125A/3P MAIN CIRCUIT BREAKER. PROVIDE ALL CONDUITS AND CONDUCTORS AS REQUIRED FOR COMPLETE OPERATION.
11. CONTRACTOR TO PROVIDE NEW 208V, 1200A RATED ENCLOSED CIRCUIT BREAKER. PROVIDE ALL CONDUITS AND CONDUCTORS AS REQUIRED FOR COMPLETE OPERATION.
12. CONTRACTOR TO PROVIDE NEW 100KVA MODULAR UPS SYSTEM. PROVIDE ALL CONDUIT AND CONDUCTORS AS REQUIRED FOR COMPLETE OPERATION.
13. CONTRACTOR TO PROVIDE NEW 350A/3P SHUNT-TRIP CIRCUIT BREAKER TO BE CONTROLLED BY NEW EPO SYSTEM.
14. CONTRACTOR TO PROVIDE EPO SYSTEM TO INCLUDE AN EPO PUSH BUTTON ADJACENT TO EACH DOOR, WHICH SHALL TURN OFF POWER TO THE CRAC UNITS, POWER TO THE UPS', AND DISABLE INVERTER POWER IN THE UPS SYSTEMS. CONTRACTOR TO SUBMIT COMPLETE SYSTEM WIRING DIAGRAM FOR APPROVAL PRIOR TO INSTALLATION.
15. CONTRACTOR TO PROVIDE NEW BRANCH BREAKER. SIZE AS INDICATED ON THIS SHEET. BREAKERS SHALL BE 3-POLE UNLESS OTHERWISE NOTED.
16. PROVIDE CONNECTION FROM EPO SYSTEM TO DISABLE DC POWER TO UPS INVERTER.
17. PROVIDE 20A/1P BREAKER FOR 120V POWER TO THE SHUNT-TRIP CIRCUIT BREAKERS AND THE EPO SYSTEM.
18. PROVIDE 150A/3P CIRCUIT BREAKER FOR FUTURE CONNECTION TO MTS AND CRAC 2.

Revisions:	Date:

CONSULTANT

ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD

A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE	PHASE	PROJECT TITLE	PROJECT NUMBER
BUILDING 145 ELECTRICAL ONE-LINE DIAGRAM	100% CONSTRUCTION DOCUMENTS	EHRM INFRASTRUCTURE UPGRADES	568-21-701
			BUILDING NUMBER: 145
APPROVED: Project Director	FLS	LOCATION: FORT MEADE, SOUTH DAKOTA	DRAWING NUMBER
FOR OFFICIAL USE ONLY (FOUO)	FULLY SPRINKLERED	ISSUE DATE: 11/05/2024 · CHECKED BY: MER · DRAWN BY: LAW	145-EJ-001

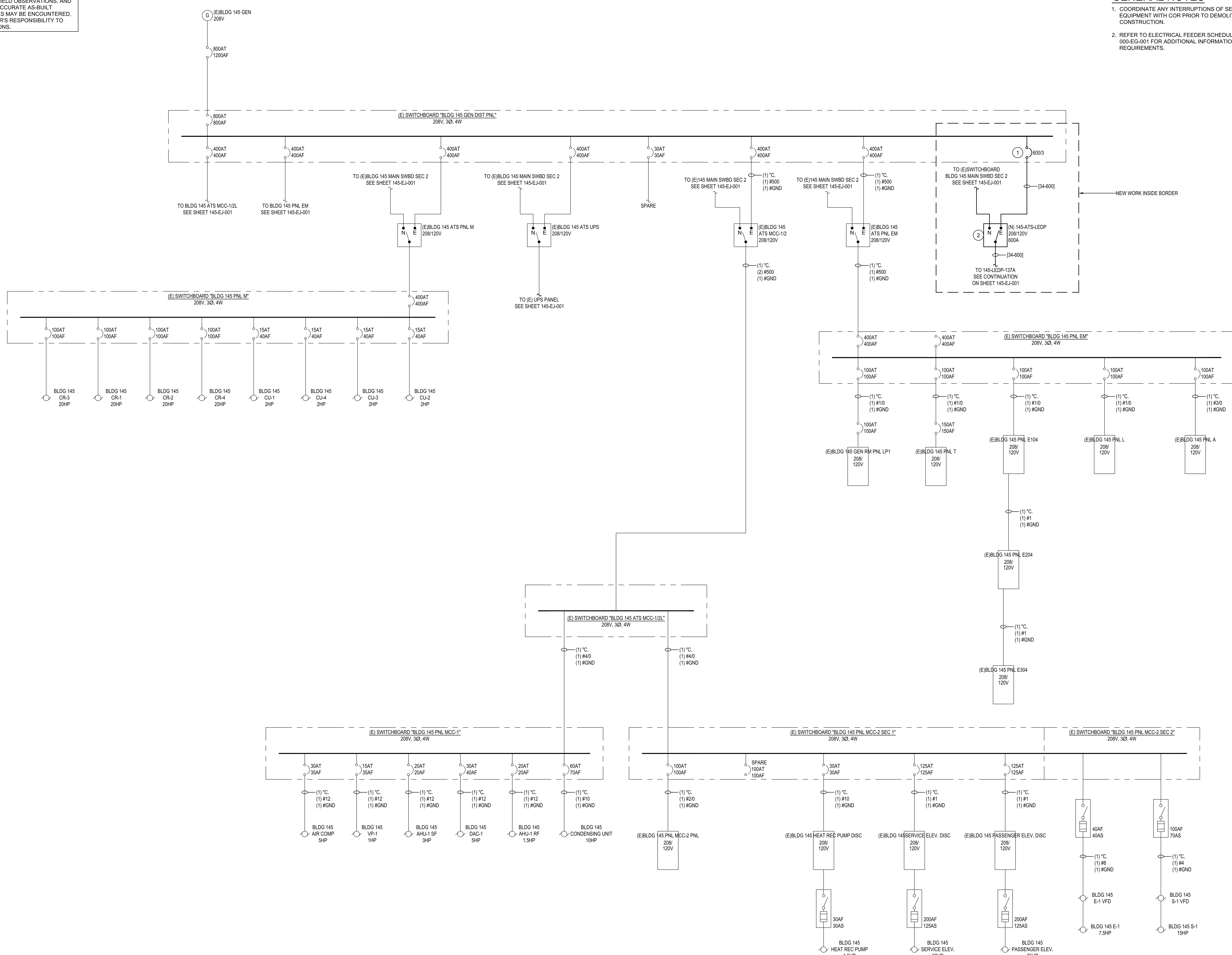
THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

GENERAL NOTES

1. COORDINATE ANY INTERRUPTIONS OF SERVICE FOR EXISTING EQUIPMENT WITH COR PRIOR TO DEMOLITION OR CONSTRUCTION.
2. REFER TO ELECTRICAL FEEDER SCHEDULE ON SHEET 000-EG-001 FOR ADDITIONAL INFORMATION AND FEEDER REQUIREMENTS.

KEYNOTES

1. CONTRACTOR TO PROVIDE NEW 208V, 600A/3P BREAKER IN EXISTING SPACE.
2. CONTRACTOR TO PROVIDE NEW 208V, 600A, 3-PHASE AUTOMATIC TRANSFER SWITCH. PROVIDE ALL CONDUITS AND CONDUCTORS AS REQUIRED FOR COMPLETE OPERATION.



1 BLDG 145 ELECTRICAL ONE-LINE
SCALE: NTS

Revisions:	Date:

CONSULTANT
ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD
A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

STAMP

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT
VA U.S. Department of Veterans Affairs

DRAWING TITLE: BUILDING 145 ELECTRICAL ONE-LINE DIAGRAM
APPROVED: Project Director
FOR OFFICIAL USE ONLY (FOUO)

PHASE: 100% CONSTRUCTION DOCUMENTS
FLS: FULLY SPRINKLERED

PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES
LOCATION: FORT MEADE, SOUTH DAKOTA

ISSUE DATE	CHECKED BY	DRAWN BY
11/05/2024	MER	LAW

PROJECT NUMBER: 568-21-701
BUILDING NUMBER: 145
DRAWING NUMBER: 145-EJ-002

VA FORM 08 - 6231

208/120 VOLT 3 PHASE 4 WIRE
LOCATION: 137A SUPPLIED BY: 145-ATS-LEDP
SERVING: EM PANELS, UPS, & MECH

PANEL (N)145-LEDP-137A

600 AMP BUS RATING 600 AMP MAIN BREAKER
SCCR: 22,000 A AFC:
FEED: TOP MOUNTING: SURFACE

CKT	LOAD	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD	CKT
1	145-CU-5 (1)	M	4.160	25/2	A	350/3	100.00	D	UPS-B (3)	2
3	-	-	-	-	B	-	-	-	-	4
5	145-CU-2 (1)	M	4.160	25/2	C	-	-	-	-	6
7	-	-	-	-	A	225/3	30.000	P	145-LE-122B/229A/329 TAP (1)	8
9	145-CRAC-1 (3)	M	42.870	150/3	B	-	-	-	-	10
11	-	-	-	-	C	-	-	-	-	12
13	-	-	-	-	A	30/3	8.214	M	145-CU-1 (1)	14
15	FOR FUTURE MTS (1)	S	-	150/3	B	-	-	-	-	16
17	-	-	-	-	C	-	-	-	-	18
19	-	-	-	-	A	-	-	S	SPACE	20
21	SPACE	S	-	-	B	-	-	S	SPACE	22
23	SPACE	S	-	-	C	-	-	S	SPACE	24
25	SPACE	S	-	-	A	-	-	S	SPACE	26
27	SPACE	S	-	-	B	-	-	S	SPACE	28
29	SPACE	S	-	-	C	-	-	S	SPACE	30
31	SPACE	S	-	-	A	-	-	S	SPACE	32
33	SPACE	S	-	-	B	-	-	S	SPACE	34
35	SPACE	S	-	-	C	-	-	S	SPACE	36
37	SPACE	S	-	-	A	-	-	S	SPACE	38
39	SPACE	S	-	-	B	-	-	S	SPACE	40
41	SPACE	S	-	-	C	-	-	S	SPACE	42

PHASE LOAD PHASE A= 107.16 KVA PHASE B= 96.89 KVA PHASE C= 92.81 KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS		MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS	
PANEL (N)145-LEDP-137A		100.00					59.40			42.87	159.40 KVA	442.46 AMP
PANEL 145-LE-122B		10.00					10.61			3.54	20.61 KVA	57.20 AMP
PANEL 145-LE-122B		10.00					0.50			0.50	10.50 KVA	29.15 AMP
PANEL 145-LE-329		10.00					0.50			0.50	10.50 KVA	29.15 AMP
CONNECTED LOAD		130.00					71.01			42.87	201.01 KVA	557.95 AMP
CALCULATED LOAD		130.00					71.01			10.72	211.73 KVA	587.70 AMP

NOTES: NEW WORK IN BOLD
1. PROVIDE NEW BREAKER. SIZE AS INDICATED ON THIS SCHEDULE.
2. PROVIDE NEW 100% RATED MAIN CIRCUIT BREAKER IN THIS PANEL. SIZE AS INDICATED ON THIS SCHEDULE.
3. PROVIDE NEW SHUNT-TRIP BREAKER. SIZE AS INDICATED ON THIS SCHEDULE.

208/120 VOLT 3 PHASE 4 WIRE
LOCATION: 137A SUPPLIED BY: 145-XFMR-LNDP
SERVING: PANELS, UPS, & MECH

PANEL (N)145-LNDP-137A

1200 AMP BUS RATING 1200 AMP MAIN BREAKER
SCCR: 22,000 A AFC:
FEED: TOP MOUNTING: SURFACE

CKT	LOAD	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD	CKT
1	145-CRAC-2 (3)	M	42.871	150/3	A	350/3	100	D	UPS-A (3)	2
3	-	-	-	-	B	-	-	-	-	4
5	-	-	-	-	C	-	-	-	-	6
7	145-RE-3 (1)	M	1.874	15/3	A	15/3	8.214	M	145-CU-2 (1)	8
9	-	-	-	-	B	-	-	-	-	10
11	-	-	-	-	C	-	-	-	-	12
13	RTU-1 (1)	M	55.480	200/3	A	400/3	131.685	P	PANEL 'M' (1)	14
15	-	-	-	-	B	-	-	-	-	16
17	-	-	-	-	C	-	-	-	-	18
19	145-CRAC-3 (3)	M	42.871	150/3	A	100/3	15.388	P	PANEL '145-P2' (1)	20
21	-	-	-	-	B	-	-	-	-	22
23	-	-	-	-	C	-	-	-	-	24
25	SPACE	S	-	-	A	-	-	S	SPACE	26
27	SPACE	S	-	-	B	-	-	S	SPACE	28
29	SPACE	S	-	-	C	-	-	S	SPACE	30
31	SPACE	S	-	-	A	-	-	S	SPACE	32
33	SPACE	S	-	-	B	-	-	S	SPACE	34
35	SPACE	S	-	-	C	-	-	S	SPACE	36
37	SPACE	S	-	-	A	-	-	S	SPACE	38
39	SPACE	S	-	-	B	-	-	S	SPACE	40
41	SPACE	S	-	-	C	-	-	S	SPACE	42

PHASE LOAD PHASE A= 105.44 KVA PHASE B= 97.10 KVA PHASE C= 104.10 KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS		MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS	
PANEL (N)145-LNDP-137A		100.00					151.31			55.48	251.31 KVA	697.57 AMP
PANEL M		72.00			0.97		38.32	26.16		8.30	137.45 KVA	381.52 AMP
PANEL 145-P2					3.99		10.80				14.79 KVA	41.05 AMP
CONNECTED LOAD		172.00			4.96		189.63	36.96		55.48	403.55 KVA	1,120.14 AMP
CALCULATED LOAD		172.00			6.19		189.63	23.48		13.87	405.18 KVA	1,124.66 AMP

NOTES: NEW WORK IN BOLD
1. PROVIDE NEW BREAKER. SIZE AS INDICATED ON THIS SCHEDULE.
2. PROVIDE NEW 100% RATED MAIN CIRCUIT BREAKER IN THIS PANEL. SIZE AS INDICATED ON THIS SCHEDULE.
3. PROVIDE NEW SHUNT-TRIP BREAKER. SIZE AS INDICATED ON THIS SCHEDULE.

208/120 VOLT 3 PHASE 4 WIRE
LOCATION: 122B SUPPLIED BY: PNL M
SERVING: TR EQUIPMENT

PANEL (N)145-LN-122B

100 AMP BUS RATING 100 AMP MAIN BREAKER
SCCR: 22,000 A AFC:
FEED: TOP MOUNTING: SURFACE

CKT	LOAD	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD	CKT
1	RK-122B-1B (1)	D	10.000	30/3	A	20/1	0.720	R	RM 122B REC (1)	2
3	-	-	-	-	B	20/1	0.720	R	RM 122B REC (1)	4
5	-	-	-	-	C	20/1	0.180	R	145-RECP-5 (1)	6
7	145-CU-1 (1)	M	4.160	25/2	A	20/1	0.208	L	LTG RM 122B (1)	8
9	-	-	-	-	B	20/1	-	S	SPARE (1)	10
11	SPARE (1)	S	-	20/1	C	20/1	-	S	SPARE (1)	12
13	SPARE (1)	S	-	20/1	A	20/1	-	S	SPARE (1)	14
15	SPARE (1)	S	-	20/1	B	-	-	S	SPACE	16
17	SPACE	S	-	-	C	-	-	S	SPACE	18
19	SPACE	S	-	-	A	-	-	S	SPACE	20
21	SPACE	S	-	-	B	-	-	S	SPACE	22
23	SPACE	S	-	-	C	-	-	S	SPACE	24
25	SPACE	S	-	-	A	-	-	S	SPACE	26
27	SPACE	S	-	-	B	-	-	S	SPACE	28
29	SPACE	S	-	-	C	-	-	S	SPACE	30
31	SPACE	S	-	-	A	-	-	S	SPACE	32
33	SPACE	S	-	-	B	-	-	S	SPACE	34
35	SPACE	S	-	-	C	-	-	S	SPACE	36
37	SPACE	S	-	-	A	-	-	S	SPACE	38
39	SPACE	S	-	-	B	-	-	S	SPACE	40
41	SPACE	S	-	-	C	-	-	S	SPACE	42

PHASE LOAD PHASE A= 6.34 KVA PHASE B= 6.13 KVA PHASE C= 3.51 KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS		MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS	
CONNECTED LOAD		10.00			0.21		4.16	1.62		4.16	15.99 KVA	44.38 AMP
CALCULATED LOAD		10.00			0.26		4.16	1.62		1.04	17.08 KVA	47.41 AMP

NOTES: NEW WORK IN BOLD
PROVIDE WITH 200% RATED NEUTRAL.
1. PROVIDE NEW BREAKER. SIZE AS INDICATED ON THIS SCHEDULE.

208/120 VOLT 3 PHASE 4 WIRE
LOCATION: 122B SUPPLIED BY: 145-LEDP-137A
SERVING: TR EQUIPMENT

PANEL (N)145-LE-122B

100 AMP BUS RATING 100 AMP MAIN BREAKER
SCCR: 22,000 A AFC:
FEED: TOP MOUNTING: SURFACE

CKT	LOAD	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD	CKT
1	RK-122B-1A (1)	D	10.000	30/3	A	25/2	3.536	M	145-OU-6 (1)	2
3	-	-	-	-	B	-	-	-	-	4
5	-	-	-	-	C	25/2	3.536	M	145-OU-7 (1)	6
7	SPACE	S	-	-	A	-	-	-	-	8
9	SPACE	S	-	-	B	25/2	3.536	M	145-OU-8 (1)	10
11	SPACE	S	-	-	C	-	-	-	-	12
13	SPACE	S	-	-	A	-	-	S	SPACE	14
15	SPACE	S	-	-	B	-	-	S	SPACE	16
17	SPACE	S	-	-	C	-	-	S	SPACE	18
19	SPACE	S	-	-	A	-	-	S	SPACE	20
21	SPACE	S	-	-	B	-	-	S	SPACE	22
23	SPACE	S	-	-	C	-	-	S	SPACE	24
25	SPACE	S	-	-	A	-	-	S	SPACE	26
27	SPACE	S	-	-	B	-	-	S	SPACE	28
29	SPACE	S	-	-	C	-	-	S	SPACE	30
31	SPACE	S	-	-	A	-	-	S	SPACE	32
33	SPACE	S	-	-	B	-	-	S	SPACE	34
35	SPACE	S	-	-	C	-	-	S	SPACE	36
37	SPACE	S	-	-	A	-	-	S	SPACE	38
39	SPACE	S	-	-	B	-	-	S	SPACE	40
41	SPACE	S	-	-	C	-	-	S	SPACE	42

PHASE LOAD PHASE A= 6.87 KVA PHASE B= 6.87 KVA PHASE C= 6.87 KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS		MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS	
CONNECTED LOAD		10.00					10.61			3.54	20.61 KVA	57.20 AMP
CALCULATED LOAD		10.00					10.61			0.88	21.49 KVA	59.66 AMP

NOTES: NEW WORK IN BOLD
PROVIDE WITH 200% RATED NEUTRAL.
1. PROVIDE NEW BREAKER. SIZE AS INDICATED ON THIS SCHEDULE.

208/120 VOLT 3 PHASE 4 WIRE
LOCATION: 229A SUPPLIED BY: PNL M
SERVING: TR EQUIPMENT

PANEL (N)145-LN-229A

225 AMP BUS RATING 225 AMP MAIN BREAKER
SCCR: 22,000 A AFC:
FEED: TOP MOUNTING: SURFACE

CKT	LOAD	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD	CKT
1	RK-229A-1B (1)	D	10.000	30/3	A	20/1	0.720	R	RM 229A REC (1)	2
3	-	-	-	-	B	20/1	0.720	R	RM 229A REC (1)	4
5	-	-	-	-	C	20/1	0.104	L	RM 229A LTG (1)	6
7	145-CU-3 (1)	M	4.160	25/2	A	20/1	-	S	SPARE (1)	8
9	-	-	-	-	B	20/1	-	S	SPARE (1)	10
11	SPARE (1)	S	-	20/1	C	20/1	-	S	SPARE (1)	12
13	SPARE (1)	S	-	20/1	A	-	-	S	SPACE	14
15	SPARE (1)	S	-	20/1	B	-	-	S	SPACE	16
17	SPACE	S	-	-	C	-	-	S	SPACE	18
19	SPACE	S	-	-	A	-	-	S	SPACE	20
21	SPACE	S	-	-	B	-	-	S	SPACE	22
23	SPACE	S	-	-	C	-	-	S	SPACE	24
25	SPACE	S	-	-	A	-	-	S	SPACE	26
27	SPACE	S	-	-	B	-	-	S	SPACE	28
29	SPACE	S	-	-	C	-	-	S	SPACE	30
31	SPACE	S	-	-	A	-	-	S	SPACE	32
33	SPACE	S	-	-	B	-	-	S	SPACE	34
35	SPACE	S	-	-	C	-	-	S	SPACE	36
37	SPACE	S	-	-	A	-	-	S	SPACE	38
39	SPACE	S	-	-	B	-	-	S	SPACE	40
41	SPACE	S	-	-	C	-	-	S	SPACE	42

PHASE LOAD PHASE A= 6.13 KVA PHASE B= 6.13 KVA PHASE C= 3.44 KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS		MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS	
CONNECTED LOAD		10.00			0.10		4.16	1.44		4.16	15.70 KVA	43.59 AMP
CALCULATED LOAD		10.00			0.13		4.16	1.44		1.04	16.77 KVA	46.55 AMP

NOTES: NEW WORK IN BOLD
PROVIDE WITH 200% RATED NEUTRAL.
1. PROVIDE NEW BREAKER. SIZE AS INDICATED ON THIS SCHEDULE.

208/120 VOLT 3 PHASE 4 WIRE
LOCATION: 229A SUPPLIED BY: 145-LE-122B
SERVING: TR EQUIPMENT

PANEL (N)145-LE-229A

100 AMP BUS RATING 100 AMP MAIN BREAKER
SCCR: 22,000 A AFC:
FEED: TOP MOUNTING: SURFACE

CKT	LOAD	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD	CKT
1	RK-229A-1A (1)	D	10.000	30/3	A	20/1	0.500	M	DRAIN PUMP (1)	2
3	-	-	-	-	B	-	-	S	SPACE	4
5	-	-	-	-	C	-	-	S	SPACE	6
7	SPACE	S	-	-	A	-	-	S	SPACE	8
9	SPACE	S	-	-	B	-	-	S	SPACE	10
11	SPACE	S	-	-	C	-	-	S	SPACE	12
13	SPACE	S	-	-	A	-	-	S	SPACE	14
15	SPACE	S	-	-	B	-	-	S	SPACE	16
17	SPACE	S	-	-	C	-	-	S	SPACE	18
19	SPACE	S	-	-	A	-	-	S	SPACE	20
21	SPACE	S	-	-	B	-	-	S	SPACE	22
23	SPACE	S	-	-	C	-	-	S	SPACE	24
25	SPACE	S	-	-	A	-	-	S	SPACE	26
27	SPACE	S	-	-	B	-	-	S	SPACE	28
29	SPACE	S	-	-	C	-	-	S	SPACE	30
31	SPACE	S	-	-	A	-	-	S	SPACE	32
33	SPACE	S	-	-	B	-	-	S	SPACE	34
35	SPACE	S	-	-	C	-	-	S	SPACE	36
37	SPACE	S	-	-	A	-	-	S	SPACE	38
39	SPACE	S	-	-	B	-	-	S	SPACE	40
41	SPACE	S	-	-	C	-	-	S	SPACE	42

PHASE LOAD PHASE A= 3.83 KVA PHASE B= 3.33 KVA PHASE C= 3.33 KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS		MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS	
CONNECTED LOAD		10.00					0.50			0.50	10.50 KVA	29.15 AMP
CALCULATED LOAD		10.00					0.50			0.13	10.63 KVA	29.49 AMP

NOTES: NEW WORK IN BOLD
PROVIDE WITH 200% RATED NEUTRAL.
1. PROVIDE NEW BREAKER. SIZE AS INDICATED ON THIS SCHEDULE.

208/120 VOLT 3 PHASE 4 WIRE
LOCATION: 329 SUPPLIED BY: PNL M
SERVING: TR EQUIPMENT

PANEL (N)145-LN-329

225 AMP BUS RATING 225 AMP MAIN BREAKER
SCCR: 22,000 A AFC:
FEED: TOP MOUNTING: SURFACE

CKT	LOAD	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD	CKT
1	RK-329-1B (1)	D	10.000	30/3	A	20/1	0.720	R	RM 329 REC (1)	2
3	-	-	-	-	B	20/1	0.720	R	RM 329 REC (1)	4
5	-	-	-	-	C	20/1	0.156	L	RM 329 LIGHTS (1)	6
7	145-CU-4 (1)	M	4.160	25/2	A	20/1	0.360	R	145-RECP-3 & 4 (1)	8
9	-	-	-	-	B	20/1	-	S	SPARE (1)	10
11	SPARE (1)	S	-	20/1	C	20/1	-	S	SPARE (1)	12
13	SPARE (1)	S	-	20/1	A	20/1	-	S	SPARE (1)	14
15	SPARE (1)	S	-	20/1	B	-	-	S	SPACE	16
17	SPACE	S	-	-	C	-	-	S	SPACE	18
19	SPACE	S	-	-	A	-	-	S	SPACE	20
21	SPACE	S	-	-	B	-	-	S	SPACE	22
23	SPACE	S	-	-	C	-	-	S	SPACE	24
25	SPACE	S	-	-	A	-	-	S	SPACE	26
27	SPACE	S	-	-	B	-	-	S	SPACE	28
29	SPACE	S	-	-	C	-	-	S	SPACE	30
31	SPACE	S	-	-	A	-	-	S	SPACE	32
33	SPACE	S	-	-	B	-	-	S	SPACE	34
35	SPACE	S	-	-	C	-	-	S	SPACE	36
37	SPACE	S	-	-	A	-	-	S	SPACE	38
39	SPACE	S	-	-	B	-	-	S	SPACE	40
41	SPACE	S	-	-	C	-	-	S	SPACE	42

PHASE LOAD PHASE A= 6.49 KVA PHASE B= 6.13 KVA PHASE C= 3.49 KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS		MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS	
CONNECTED LOAD		10.00			0.16		4.16	1.80		4.16	16.12 KVA	44.73 AMP
CALCULATED LOAD		10.00			0.20		4.16	1.80		1.04	17.20 KVA	47.73 AMP

NOTES: NEW WORK IN BOLD
PROVIDE WITH 200% RATED NEUTRAL.
1. PROVIDE NEW BREAKER. SIZE AS INDICATED ON THIS SCHEDULE.

208/120 VOLT 3 PHASE 4 WIRE
LOCATION: 329 SUPPLIED BY: 145-LE-229A
SERVING: TR EQUIPMENT

PANEL (N)145-LE-329

100 AMP BUS RATING 100 AMP MAIN BREAKER
SCCR: 22,000 A AFC:
FEED: TOP MOUNTING: SURFACE

CKT	LOAD	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD	CKT
1	RK-329-1A (1)	D	10.000	30/3	A	20/1	0.500	M	DRAIN PUMP(1)	2
3	-	-	-	-	B	-	-	S	SPACE	4
5	-	-	-	-	C	-	-	S	SPACE	6
7	SPACE	S	-	-	A	-	-	S	SPACE	8
9	SPACE	S	-	-	B	-	-	S	SPACE	10
11	SPACE	S	-	-	C	-	-	S	SPACE	12
13	SPACE	S	-	-	A	-	-	S	SPACE	14
15	SPACE	S	-	-	B	-	-	S	SPACE	16
17	SPACE	S	-	-	C	-	-	S	SPACE	18
19	SPACE	S	-	-	A	-	-	S	SPACE	20
21	SPACE	S	-	-	B	-	-	S	SPACE	22
23	SPACE	S	-	-	C	-	-	S	SPACE	24
25	SPACE	S	-	-	A	-	-	S	SPACE	26
27	SPACE	S	-	-	B	-	-	S	SPACE	28
29	SPACE	S	-	-	C	-	-	S	SPACE	30
31	SPACE	S	-	-	A	-	-	S	SPACE	32
33	SPACE	S	-	-	B	-	-	S	SPACE	34
35	SPACE	S	-	-	C	-	-	S	SPACE	36
37	SPACE	S	-	-	A	-	-	S	SPACE	38
39	SPACE	S	-	-	B	-	-	S	SPACE	40
41	SPACE	S	-	-	C	-	-	S	SPACE	42

PHASE LOAD PHASE A= 3.83 KVA PHASE B= 3.33 KVA PHASE C= 3.33 KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS		MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS	
CONNECTED LOAD		10.00					0.50			0.50	10.50 KVA	29.15 AMP
CALCULATED LOAD		10.00					0.50			0.13	10.63 KVA	29.49 AMP

NOTES: NEW WORK IN BOLD
PROVIDE WITH 200% RATED NEUTRAL.
1. PROVIDE NEW BREAKER. SIZE AS INDICATED ON THIS SCHEDULE.

208/120 VOLT 3 PHASE 4 WIRE
LOCATION: 132 SUPPLIED BY: UPS-A
SERVING: MCR

PANEL (N)145-UPS-A

400 AMP BUS RATING 350 AMP MAIN BREAKER
SCCR: 22,000 A AFC:
FEED: TOP MOUNTING: SURFACE

CKT	LOAD	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD	CKT
1	BUS A-1 (1)	D	21.000	125/3	A	125/3	35.000	D	BUS A-2 (1)	2
3	-	-	-	-	B	-	-	-	-	4
5	-	-	-	-	C	-	-	-	-	6
7	BUS A-3 (1)	D	35.000	125/3	A	-	-	S	SPACE	8
9	-	-	-	-	B	-	-	S	SPACE	10
11	-	-	-	-	C	-	-	S	SPACE	12
13	SPACE	S	-	-	A	-	-	S	SPACE	14
15	SPACE	S	-	-	B	-	-	S	SPACE	16
17	SPACE	S	-	-	C	-	-	S	SPACE	18
19	SPACE	S	-	-	A	-	-	S	SPACE	20
21	SPACE	S	-	-	B	-	-	S	SPACE	22
23	SPACE	S	-	-	C	-	-	S	SPACE	24
25	SPACE	S	-	-	A	-	-	S	SPACE	26
27	SPACE	S	-	-	B	-	-	S	SPACE	28
29	SPACE	S	-	-	C	-	-	S	SPACE	30
31	SPACE	S	-	-	A	-	-	S	SPACE	32
33	SPACE	S	-	-	B	-	-	S	SPACE	34
35	SPACE	S	-	-	C	-	-	S	SPACE	36
37	SPACE	S	-	-	A	-	-	S	SPACE	38
39	SPACE	S	-	-	B	-	-	S	SPACE	40
41	SPACE	S	-	-	C	-	-	S	SPACE	42

PHASE LOAD PHASE A= 30.33 KVA PHASE B= 30.33 KVA PHASE C= 30.33 KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS		MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS	
CONNECTED LOAD		91.00									91.00 KVA	252.59 AMP
CALCULATED LOAD		91.00									91.00 KVA	252.59 AMP

NOTES: NEW WORK IN BOLD
PROVIDE WITH 200% RATED NEUTRAL.
1. PROVIDE NEW BREAKER. SIZE AS INDICATED ON THIS SCHEDULE.

Revisions:	Date:

CONSULTANT
ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD
A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP
STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: BUILDING 145 ELECTRICAL PANEL SCHEDULES
PHASE: 100% CONSTRUCTION DOCUMENTS
PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES
PROJECT NUMBER: 568-21-701
BUILDING NUMBER: 145
APPROVED: Project Director
FLS: FULLY SPRINKLERED
LOCATION: FORT MEADE, SOUTH DAKOTA
ISSUE DATE: 11/05/2024
CHECKED BY: MER
DRAWN BY: LAW
DRAWING NUMBER: 145-EJ-003

FOR OFFICIAL USE ONLY (FOUO)

VA FORM 08 - 6231

208/120 VOLT **3** PHASE **4** WIRE
LOCATION: **132** SUPPLIED BY: **UPS-B**
SERVING: **MCR**

PANEL (N)145-UPS-B

400 AMP BUS RATING **350 AMP** MAIN BREAKER
SCCR: **22,000 A** AFC:
FEED: **TOP** MOUNTING: **SURFACE**

CKT	LOAD	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD	CKT
1	BUS B-1 (2)	D	21.000	125/3	A	125/3	35.000	D	BUS B-2 (2)	2
3	-	-	-	-	B	-	-	-	-	4
5	-	-	-	-	C	-	-	-	-	6
7	BUS B-3 (2)	D	35.000	125/3	A	-	-	S	SPACE	8
9	-	-	-	-	B	-	-	S	SPACE	10
11	-	-	-	-	C	-	-	S	SPACE	12
13	SPACE	S	-	-	A	-	-	S	SPACE	14
15	SPACE	S	-	-	B	-	-	S	SPACE	16
17	SPACE	S	-	-	C	-	-	S	SPACE	18
19	SPACE	S	-	-	A	-	-	S	SPACE	20
21	SPACE	S	-	-	B	-	-	S	SPACE	22
23	SPACE	S	-	-	C	-	-	S	SPACE	24
25	SPACE	S	-	-	A	-	-	S	SPACE	26
27	SPACE	S	-	-	B	-	-	S	SPACE	28
29	SPACE	S	-	-	C	-	-	S	SPACE	30
31	SPACE	S	-	-	A	-	-	S	SPACE	32
33	SPACE	S	-	-	B	-	-	S	SPACE	34
35	SPACE	S	-	-	C	-	-	S	SPACE	36
37	SPACE	S	-	-	A	-	-	S	SPACE	38
39	SPACE	S	-	-	B	-	-	S	SPACE	40
41	SPACE	S	-	-	C	-	-	S	SPACE	42

PHASE LOAD PHASE A= 30.33 KVA PHASE B= 30.33 KVA PHASE C= 30.33 KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS		MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS	
CONNECTED LOAD		91.00									91.00 KVA	252.59 AMP
CALCULATED LOAD		91.00									91.00 KVA	252.59 AMP

NOTES: **NEW WORK IN BOLD**
PROVIDE WITH 200% RATED NEUTRAL.
1. PROVIDE NEW BREAKER, SIZE AS INDICATED ON THIS SCHEDULE.

208/120 VOLT **3** PHASE **4** WIRE
LOCATION: **137A** SUPPLIED BY: **LNDP-137A**
SERVING: **PANELS & HVAC**

PANEL (N)M

400 AMP BUS RATING **400 AMP** MAIN BREAKER
SCCR: **22,000 A** AFC:
FEED: **TOP** MOUNTING: **SURFACE**

CKT	LOAD	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD	CKT
1	137B-P1 (1)	P	26.898	125/3	A	125/3	26.619	P	137B-P2 (1)	2
3	-	-	-	-	B	-	-	-	-	4
5	-	-	-	-	C	-	-	-	-	6
7	145-RE-1 (1)	M	1.874	15/3	A	30/3	2.330	M	145-CU-3 (1)	8
9	-	-	-	-	B	-	-	-	-	10
11	-	-	-	-	C	-	-	-	-	12
13	145-RE-2 (1)	M	1.874	15/3	A	-	-	S	SPACE	14
15	-	-	-	-	B	-	-	S	SPACE	16
17	-	-	-	-	C	-	-	S	SPACE	18
19	PANEL '145-LE-122B' (1)	P	17.080	225/3	A	-	-	S	SPACE	20
21	-	-	-	-	B	-	-	S	SPACE	22
23	-	-	-	-	C	-	-	S	SPACE	24
25	PANEL '145-LE-229A' (1)	P	16.770	225/3	A	-	-	S	SPACE	26
27	-	-	-	-	B	-	-	S	SPACE	28
29	-	-	-	-	C	-	-	S	SPACE	30
31	PANEL '145-LE-329' (1)	P	17.195	225/3	A	-	-	S	SPACE	32
33	-	-	-	-	B	-	-	S	SPACE	34
35	-	-	-	-	C	-	-	S	SPACE	36
37	PANEL '145-P1' (1)	P	29.600	225/3	A	-	-	S	SPACE	38
39	-	-	-	-	B	-	-	S	SPACE	40
41	-	-	-	-	C	-	-	S	SPACE	42

PHASE LOAD PHASE A= 21.67 KVA PHASE B= 13.33 KVA PHASE C= 20.33 KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS		MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS	
PANEL (N)M							6.08			2.33	6.08 KVA	16.87 AMP
PANEL 137B-P1		15.00					8.92	0.90		8.30	24.82 KVA	68.90 AMP
PANEL 137B-P2		15.00			0.50		8.92			8.30	24.42 KVA	67.78 AMP
PANEL 145-LE-122B		10.00			0.21		4.16	1.62		4.16	15.99 KVA	44.38 AMP
PANEL 145-LE-229		10.00			0.10		4.16	1.44		4.16	15.70 KVA	43.59 AMP
PANEL 145-LE-329		10.00			0.16		4.16	1.80		4.16	16.12 KVA	44.73 AMP
PANEL 145-P1		12.00					1.92	20.40		1.92	34.32 KVA	95.26 AMP
CONNECTED LOAD		72.00			0.97		38.32	26.16		8.30	137.45 KVA	381.52 AMP
CALCULATED LOAD		72.00			1.21		38.32	18.08		2.07	131.69 KVA	365.52 AMP

NOTES: **NEW WORK IN BOLD**
1. PROVIDE NEW BREAKER, SIZE AS INDICATED ON THIS SCHEDULE.
2. PROVIDE NEW 100% RATED MAIN CIRCUIT BREAKER IN THIS PANEL, SIZE AS INDICATED ON THIS SCHEDULE.

208/120 VOLT **3** PHASE **4** WIRE
LOCATION: **137A** SUPPLIED BY: **PNL M**
SERVING: **EXISTING CIRCUITS**

PANEL (N)145-P1

200 AMP BUS RATING **150 AMP** MAIN BREAKER
SCCR: **22,000 A** AFC:
FEED: **TOP** MOUNTING: **SURFACE**

CKT	LOAD	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD	CKT
1	S. SW ROOM RECEPT[FROM PNL "T"] (1)	R	1.200	20/1	A	20/1	1.200	D	MISC CKTS[FROM PNL "A1"] (1)	2
3	E. SW ROOM RECEPT[FROM PNL "T"] (1)	R	1.200	20/1	B	20/1	1.200	D	MISC CKTS[FROM PNL "A1"] (1)	4
5	E. SW ROOM RECEPT[FROM PNL "T"] (1)	R	1.200	20/1	C	20/1	1.200	D	MISC CKTS[FROM PNL "A1"] (1)	6
7	N. SW ROOM RECEPT[FROM PNL "T"] (1)	R	1.200	20/1	A	20/1	1.200	D	MISC CKTS[FROM PNL "A1"] (1)	8
9	N. SW ROOM RECEPT[FROM PNL "T"] (1)	R	1.200	20/1	B	20/1	1.200	D	MISC CKTS[FROM PNL "A1"] (1)	10
11	N. SW ROOM RECEPT[FROM PNL "T"] (1)	R	1.200	20/1	C	20/1	1.200	D	MISC CKTS[FROM PNL "A1"] (1)	12
13	N. SW ROOM RECEPT[FROM PNL "T"] (1)	R	1.200	20/1	A	20/1	1.200	D	MISC CKTS[FROM PNL "A2"] (1)	14
15	W. SW ROOM RECEPT[FROM PNL "T"] (1)	R	1.200	20/1	B	20/1	1.200	D	MISC CKTS[FROM PNL "A2"] (1)	16
17	W. SW ROOM RECEPT[FROM PNL "T"] (1)	R	1.200	20/1	C	20/1	1.200	D	MISC CKTS[FROM PNL "A2"] (1)	18
19	WALL REC [FROM (E)PNL "A"] (1)	R	1.200	20/1	A	20/1	1.200	D	MISC CKTS[FROM PNL "A2"] (1)	20
21	WALL REC [FROM (E)PNL "A"] (1)	R	1.200	20/1	B	20/1	1.920	M	AC UNIT 143 (2)	22
23	WALL REC [FROM (E)PNL "A"] (1)	R	1.200	20/1	C	-	-	S	SPACE	24
25	WALL REC [FROM (E)PNL "A"] (1)	R	1.200	20/1	A	-	-	S	SPACE	26
27	WALL REC [FROM (E)PNL "A"] (1)	R	1.200	20/1	B	-	-	S	SPACE	28
29	WALL REC [FROM (E)PNL "A"] (1)	R	1.200	20/1	C	-	-	S	SPACE	30
31	WALL REC [FROM (E)PNL "A"] (1)	R	1.200	20/1	A	-	-	S	SPACE	32
33	WALL REC [FROM (E)PNL "A"] (1)	R	1.200	20/1	B	-	-	S	SPACE	34
35	SPACE	S	-	-	C	-	-	S	SPACE	36
37	SPACE	S	-	-	A	-	-	S	SPACE	38
39	SPACE	S	-	-	B	-	-	S	SPACE	40
41	SPACE	S	-	-	C	-	-	S	SPACE	42

PHASE LOAD PHASE A= 12.00 KVA PHASE B= 12.72 KVA PHASE C= 9.60 KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS		MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS	
CONNECTED LOAD		12.00					1.92	20.40		1.92	34.32 KVA	95.26 AMP
CALCULATED LOAD		12.00					1.92	15.20		0.48	29.60 KVA	82.16 AMP

NOTES: **NEW WORK IN BOLD**
1. PROVIDE NEW BREAKER TO FEED EXISTING RELOCATED LOAD. SIZE AS INDICATED ON THIS SCHEDULE.
2. EXISTING LOAD.

208/120 VOLT **3** PHASE **4** WIRE
LOCATION: **137A** SUPPLIED BY: **PNL M**
SERVING: **LIGHTS & RECEPTACLES**

PANEL (N)145-P2

100 AMP BUS RATING **100 AMP** MAIN BREAKER
SCCR: **22,000 A** AFC:
FEED: **TOP** MOUNTING: **SURFACE**

CKT	LOAD	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD	CKT
1	RM 137 CUBICLE REC (1)	R	0.720	20/1	A	20/1	0.180	R	RM 137A REC (1)	2
3	RM 137 CUBICLE REC (1)	R	0.720	20/1	B	20/1	0.236	L	RM 139A LIGHTS (1)	4
5	RM 137 LIGHTS (1)	L	0.669	20/1	C	20/1	0.720	R	RM 139A REC (1)	6
7	RM 129 LIGHTS (1)	L	0.643	20/1	A	20/1	0.720	R	RM 125 REC (1)	8
9	RM 125 & 126 LIGHTS (1)	L	0.472	20/1	B	20/1	0.720	R	RM 125 REC (1)	10
11	RM 137 CUBICLE REC (1)	R	0.720	20/1	C	20/1	0.720	R	RM 126 REC (1)	12
13	RM 137 CUBICLE REC (1)	R	0.720	20/1	A	20/1	0.720	R	RM 126 REC (1)	14
15	RM 137 REC (1)	R	0.900	20/1	B	20/1	0.180	R	145-RECP-2 (1)	16
17	RM 137 REC (1)	R	1.080	20/1	C	20/1	0.180	R	145-RECP-6 (1)	18
19	RM 129 REC (1)	R	0.900	20/1	A	-	-	S	SPACE	20
21	RM 129 REC (1)	R	0.900	20/1	B	-	-	S	SPACE	22
23	MCR LIGHTS (1)	L	1.007	20/1	C	-	-	S	SPACE	24
25	MCR LIGHTS (1)	L	0.963	20/1	A	-	-	S	SPACE	26
27	SPACE	S	-	-	B	-	-	S	SPACE	28
29	SPACE	S	-	-	C	-	-	S	SPACE	30
31	SPACE	S	-	-	A	-	-	S	SPACE	32
33	SPACE	S	-	-	B	-	-	S	SPACE	34
35	SPACE	S	-	-	C	-	-	S	SPACE	36
37	SPACE	S	-	-	A	-	-	S	SPACE	38
39	SPACE	S	-	-	B	-	-	S	SPACE	40
41	SPACE	S	-	-	C	-	-	S	SPACE	42

PHASE LOAD PHASE A= 5.57 KVA PHASE B= 4.13 KVA PHASE C= 5.10 KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS		MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS	
CONNECTED LOAD					3.99			10.80			14.79 KVA	41.05 AMP
CALCULATED LOAD					4.99			10.40			15.39 KVA	42.71 AMP

NOTES: **NEW WORK IN BOLD**
1. PROVIDE NEW BREAKER, SIZE AS INDICATED ON THIS SCHEDULE.

208/120 VOLT **3** PHASE **4** WIRE
LOCATION: SUPPLIED BY:
SERVING:

PANEL (E)A3

100 AMP BUS RATING **100 AMP** MAIN BREAKER
SCCR: **22,000 A** AFC:
FEED: **TOP** MOUNTING: **SURFACE**

CKT	LOAD	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD	CKT
1	TELECOM RACK 2 BOTTOM (2)	D	-	-	A	-	-	D	TELECOM RACK 1 BOTTOM (2)	2
3	TELECOM RACK 2 MIDDLE (2)	D	-	-	B	-	-	D	TELECOM RACK 1 MIDDLE (2)	4
5	TELECOM RACK 2 TOP (2)	D	-	-	C	-	-	D	TELECOM RACK 1 TOP (2)	6
7	TELEPHONE BOARD RECEPTACLE (2)	R	-	-	A	-	-	D	TELECOM NETWORK LINK (2)	8
9	TELEPHONE BOARD RECEPTACLE (2)	R	-	-	B	-	-	S	SPARE (2)	10
11	TELEPHONE BOARD RECEPTACLE (2)	R	-	-	C	-	-	S	SPARE (2)	12
13	TELECOM RACK 3 (2)	D	-	-	A	-	-	S	SPARE (2)	14
15	TELECOM RACK 3 (2)	D	-	-	B	-	-	S	SPARE (2)	16
17	TELECOM RACK 3 (2)	D	-	-	C	-	-	S	SPARE (2)	18
19	SPARE (2)	S	-	-	A	-	-	S	SPARE (2)	20
21	SPACE	S	-	-	B	-	-	S	SPACE	22
23	SPACE	S	-	-	C	-	-	S	SPACE	24
25	SPACE	S	-	-	A	-	-	S	SPACE	26
27	SPACE	S	-	-	B	-	-	S	SPACE	28
29	SPACE	S	-	-	C	-	-	S	SPACE	30
31	SPACE	S	-	-	A	-	-	S	SPACE	32
33	SPACE	S	-	-	B	-	-	S	SPACE	34
35	SPACE	S	-	-	C	-	-	S	SPACE	36
37	SPACE	S	-	-	A	-	-	S	SPACE	38
39	SPACE	S	-	-	B	-	-	S	SPACE	40
41	SPACE	S	-	-	C	-	-	S	SPACE	42

PHASE LOAD PHASE A= #VALUE! KVA PHASE B= #VALUE! KVA PHASE C= #VALUE! KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS		MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS	
CONNECTED LOAD											KVA	AMP
CALCULATED LOAD											KVA	AMP

NOTES: **NEW WORK IN BOLD**
1. PROVIDE NEW BREAKER TO FEED EXISTING RELOCATED LOAD, MATCH EXISTING TYPE AND MANUFACTURER.
2. EXISITING LOAD

208/120 VOLT **3** PHASE **4** WIRE
LOCATION: SUPPLIED BY:
SERVING:

PANEL (E)A

100 AMP BUS RATING **100 AMP** MAIN BREAKER
SCCR: **22,000 A** AFC:
FEED: **TOP** MOUNTING: **SURFACE**

CKT	LOAD	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD	CKT
1	SPARE (2)	S	-	-	A	-	-	R	WALL REC (2)	2
3	WEST UPS (2)	D	-	-	B	-	-	R	WALL REC (2)	4
5	WEST UPS (2)	D	-	-	C	-	-	R	WALL REC (2)	6
7	SPARE (2)	S	-	-	A	-	-	D	NEW UPS (2)	8
9	EM SHUTDOWN (2)	D	-	-	B	-	-	D	NEW UPS (2)	10
11	SPARE (2)	S	-	-	C	-	-	D	NEW UPS (2)	12
13	SPARE (2)	S	-	-	A	-	-	D	SE CORNER (2)	14
15	SPARE (2)	S	-	-	B	-	-	D	SE CORNER (2)	16
17	SPARE (2)	S	-	-	C	-	-	D	SE CORNER (2)	18
19	SPARE (2)	S	-	-	A	-	-	M	COND UNIT (2)	20
21	MIDDLE UPS (2)	D	-	-	B	-	-	M	COND UNIT (2)	22
23	UNDER FLOOR REC (2)	R	-	-	C	-	-	S	SPARE (2)	24
25	UNDER FLOOR REC (2)	R	-	-	A	-	-	R	WALL REC (2)	26
27	UNDER FLOOR REC (2)	R	-	-	B	-	-	R	WALL REC (2)	28
29	UNDER FLOOR REC (2)	R	-	-	C	-	-	S	SPARE (2)	30
31	UNDER FLOOR REC (2)	R	-	-	A	-	-	R	WALL REC (2)	32
33	UNDER FLOOR REC (2)	R	-	-	B	-	-	M	AC (2)	34
35	SPARE (2)	S	-	-	C	-	-	M	AC (2)	36
37	SPARE (2)	S	-	-	A	-	-	S	SPARE (2)	38
39	WALL REC (2)	R	-	-	B	-	-	S	SPARE (2)	40
41	WALL REC (2)	R	-	-	C	-	-	S	SPACE	42

PHASE LOAD PHASE A= #VALUE! KVA PHASE B= #VALUE! KVA PHASE C= #VALUE! KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS		MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS	
CONNECTED LOAD											KVA	AMP
CALCULATED LOAD											KVA	AMP

NOTES: **NEW WORK IN BOLD**
1. PROVIDE NEW BREAKER TO FEED EXISTING RELOCATED LOAD, MATCH EXISTING TYPE AND MANUFACTURER.
2. EXISTING LOAD

208/120 VOLT **3** PHASE **4** WIRE
LOCATION: **635** SUPPLIED BY:
SERVING: **TR 635**

PANEL (E)T

100 AMP BUS RATING **100 AMP** MAIN BREAKER
SCCR: **22,000 A** AFC:
FEED: **TOP** MOUNTING: **SURFACE**

CKT	LOAD	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD	CKT
1	SPARE	S	-	-	A	-	-	R	SWBD RM CONSOLE RECPT (2)	2
3	S. SW ROOM RECEPT (2)	R	-	-	B	-	-	R	W. SW ROOM RECEPT (2)	4
5	E. SW ROOM RECEPT (2)	R	-	-	C	-	-	R	W. SW ROOM RECEPT (2)	6
7	E. SW ROOM RECEPT (2)	R	-	-	A	-	-	R	OUTLET E WALL UNDER FLOOR (2)	8
9	REC NEXT TO PANEL M (2)	R	-	-	B	-	-	D	OLD PA POWER (2)	10
11	REC NEXT TO PANEL M (2)	R	-	-	C	-	-	S	SPACE	12
13	RECTIFIER SHELF #1 SLOT A (2)	D	-	-	A	-	-	D	INVERTER (2)	14
15	RECTIFIER SHELF #1 SLOT A (2)	D	-	-	B	-	-	D	INVERTER (2)	16
17	RECTIFIER SHELF #1 SLOT E (2)	D	-	-	C	-	-	D	RECTIFIER SHELF #1 SLOT D (2)	18
19	RECTIFIER SHELF #1 SLOT E (2)	D	-	-	A	-	-	D	RECTIFIER SHELF #1 SLOT D (2)	20
21	RECTIFIER SHELF #2 SLOT A (2)	D	-	-	B	-	-	D	RECTIFIER SHELF #1 SLOT H (2)	22
23	RECTIFIER SHELF #2 SLOT A (2)	D	-	-	C	-	-	D	RECTIFIER SHELF #1 SLOT H (2)	24
25	RECTIFIER SHELF #2 SLOT E (2)	D	-	-	A	-	-	D	RECTIFIER SHELF #2 SLOT D (2)	26
27	RECTIFIER SHELF #2 SLOT E (2)	D	-	-	B	-	-	D	RECTIFIER SHELF #2 SLOT D (2)	28
29	SPARE	S	-	-	C	-	-	D	RECTIFIER SHELF #2 SLOT H (2)	30
31	SPARE	S	-	-	A	-	-	D	RECTIFIER SHELF #2 SLOT D (2)	32
33	N. SW ROOM RECEPT (2)	R	-	-	B	-	-	D	DOOR SECURITY (2)	34
35	N. SW ROOM RECEPT (2)	R	-	-	C	-	-	D	TVSS (2)	36
37	RM 138 PA RECEPT (2)	R	-	-	A	-	-	D	TVSS (2)	38
39	RM 138 PA RECEPT (2)	R	-	-	B	-	-	D	TVSS (2)	40
41	RM 138 NC, RTLS RECEPT (2)	R	-	-	C	-	-	D	TVSS (2)	42

PHASE LOAD PHASE A= #VALUE! KVA PHASE B= #VALUE! KVA PHASE C= #VALUE! KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS		MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS	
CONNECTED LOAD											KVA	AMP
CALCULATED LOAD											KVA	AMP

NOTES: **NEW WORK IN BOLD**
1. PROVIDE NEW BREAKER TO FEED EXISTING RELOCATED LOAD, MATCH EXISTING TYPE AND MANUFACTURER.
2. EXISITING LOAD

Revisions:	Date:

CONSULTANT
ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD
A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP
EDWARD GODDIN — STATE OF WASHINGTON — 49709 — REGISTERED PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: BUILDING 145 ELECTRICAL PANEL SCHEDULES
PHASE: 100% CONSTRUCTION DOCUMENTS
PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES
PROJECT NUMBER: 568-21-701
BUILDING NUMBER: 145
APPROVED: Project Director
FLS: FULLY SPRINKLERED
LOCATION: FORT MEADE, SOUTH DAKOTA
ISSUE DATE: 11/05/2024
CHECKED BY: MER
DRAWN BY: LAW
DRAWING NUMBER: 145-EJ-004

FOR OFFICIAL USE ONLY (FOUO)

VA FORM 08 - 6231

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

GENERAL NOTES

1. COORDINATE ANY INTERRUPTIONS OF SERVICE FOR EXISTING EQUIPMENT WITH COR PRIOR TO DEMOLITION OR CONSTRUCTION.
2. REFER TO ELECTRICAL FEEDER SCHEDULE ON SHEET 000-EG-001 FOR ADDITIONAL INFORMATION AND FEEDER REQUIREMENTS.

KEYNOTES

(1) CONTRACTOR TO PROVIDE NEW 208V, 100A, 3-PHASE PANEL WITH NEW 100A MAIN CIRCUIT BREAKER. REFER TO ASSOCIATED 'EP' SHEET FOR LOCATION OF NEW PANEL.

(2) CONTRACTOR TO PROVIDE NEW 100A FUSES IN EXISTING SPARE BUCKET.

208/120 VOLT **3** PHASE **4** WIRE
LOCATION: **108** SUPPLIED BY: **MDP**
SERVING: **TR & MECH**

PANEL
(N)146-LE-108

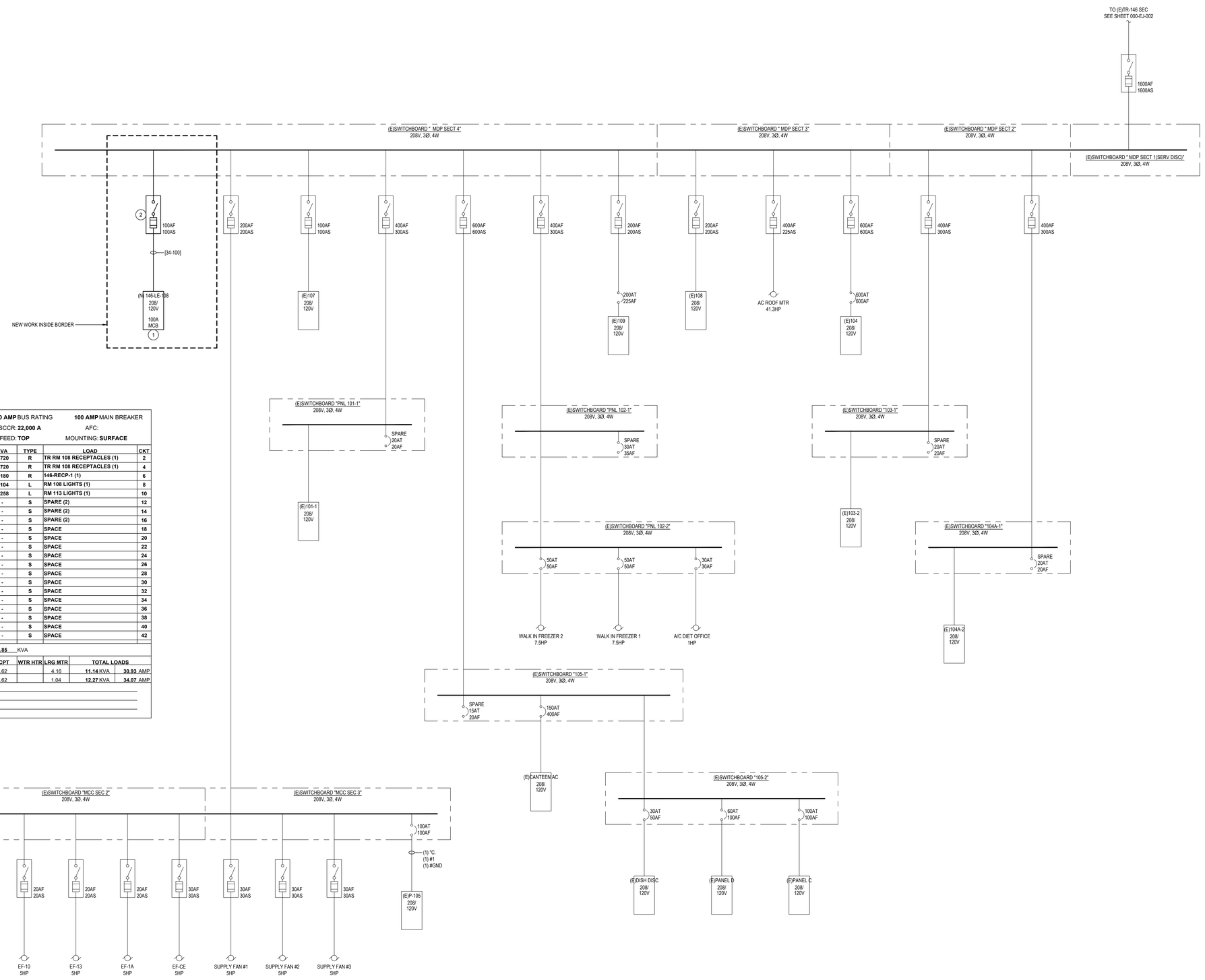
100 AMP BUS RATING **100 AMP** MAIN BREAKER
SCCR: **22,000 A** AFC:
FEED: **TOP** MOUNTING: **SURFACE**

CKT	LOAD	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD	CKT
1	RK-108-1A (1)	D	5.000	20/3	A	20/1	0.720	R	TR RM 108 RECEPTACLES (1)	2
3	-	-	-	-	B	20/1	0.720	R	TR RM 108 RECEPTACLES (1)	4
5	-	-	-	-	C	20/1	0.180	R	146-RECP-1 (1)	6
7	146-CU-1 (1)	M	4.160	25/2	A	20/1	0.104	L	RM 108 LIGHTS (1)	8
9	-	-	-	-	B	20/1	0.258	L	RM 113 LIGHTS (1)	10
11	SPARE (1)	S	-	20/1	C	20/1	-	S	SPARE (2)	12
13	SPARE (1)	S	-	20/1	A	20/1	-	S	SPARE (2)	14
15	SPARE (1)	S	-	20/1	B	20/1	-	S	SPARE (2)	16
17	SPACE	S	-	-	C	-	-	S	SPACE	18
19	SPACE	S	-	-	A	-	-	S	SPACE	20
21	SPACE	S	-	-	B	-	-	S	SPACE	22
23	SPACE	S	-	-	C	-	-	S	SPACE	24
25	SPACE	S	-	-	A	-	-	S	SPACE	26
27	SPACE	S	-	-	B	-	-	S	SPACE	28
29	SPACE	S	-	-	C	-	-	S	SPACE	30
31	SPACE	S	-	-	A	-	-	S	SPACE	32
33	SPACE	S	-	-	B	-	-	S	SPACE	34
35	SPACE	S	-	-	C	-	-	S	SPACE	36
37	SPACE	S	-	-	A	-	-	S	SPACE	38
39	SPACE	S	-	-	B	-	-	S	SPACE	40
41	SPACE	S	-	-	C	-	-	S	SPACE	42

PHASE LOAD **PHASE A=** 4.57 KVA **PHASE B=** 4.72 KVA **PHASE C=** 1.85 KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS		MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS	
CONNECTED LOAD		5.00			0.36		4.16	1.62		4.16	**11.14** KVA	**30.93** AMP
CALCULATED LOAD		5.00			0.45		4.16	1.62		1.04	**12.27** KVA	**34.07** AMP

NOTES: NEW WORK IN BOLD
PROVIDE WITH 200% RATED NEUTRAL.
1. PROVIDE NEW BRANCH BREAKER. SIZE AS INDICATED ON THIS SCHEDULE.



1 BLDG 146 ELECTRICAL ONE-LINE
SCALE: NTS

Revisions:	Date:

CONSULTANT
ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD
A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE
GDM ARCHITECTS • ENGINEERS

STAMP
EDWARD ADAM GODDIN — STATE OF WASHINGTON — 49709 — REGISTERED PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT
VA U.S. Department of Veterans Affairs

DRAWING TITLE: BUILDING 146 ELECTRICAL ONE-LINE & PANEL SCHEDULES
PHASE: 100% CONSTRUCTION DOCUMENTS
PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES
PROJECT NUMBER: 568-21-701
BUILDING NUMBER: 146
APPROVED: Project Director
FLS: FULLY SPRINKLERED
LOCATION: FORT MEADE, SOUTH DAKOTA
ISSUE DATE: 11/05/2024
CHECKED BY: MER
DRAWN BY: LAW
DRAWING NUMBER: 146-EJ-001
FOR OFFICIAL USE ONLY (FOUO)

VA FORM 08 - 6231

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

208/120 VOLT **3** PHASE **4** WIRE

LOCATION: **CORRIDOR** SUPPLIED BY: **MDP-EM**

SERVING: **147 & TE**

PANEL

(E)147-A

225 AMP BUS RATING **225 AMP** MAIN BREAKER

SCCR: **22,000 A** AFC:

FEED: **TOP** MOUNTING: **FLUSH**

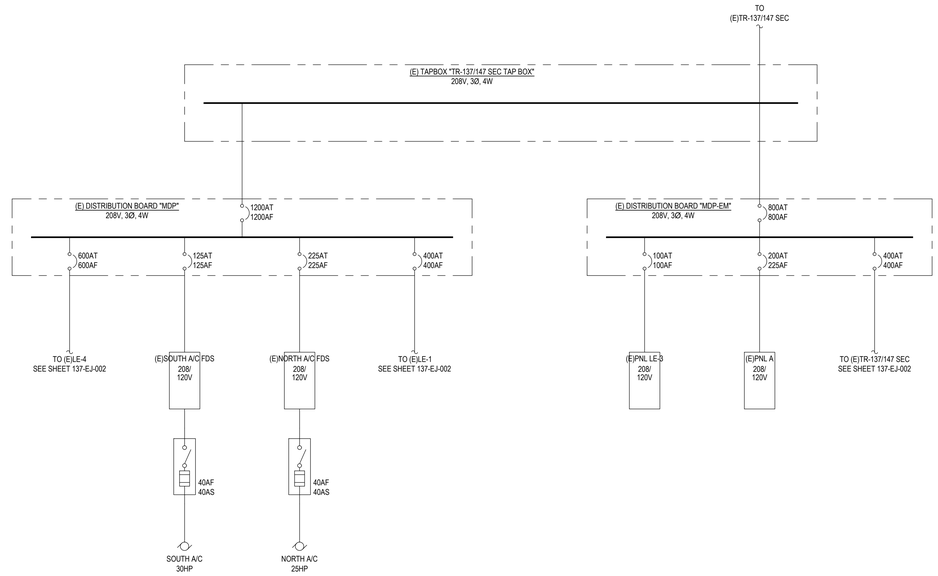
CKT	LOAD	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD	CKT
1	SUP/LOCKER RM LTG (2)	L	-	20/1	A	20/1	-	L	CORR. LTG (2)	2
3	ISSUE/BRK RM LTG (2)	L	-	20/1	B	20/1	-	L	RECEIVING RM LTG (2)	4
5	EXTERIOR LTG (2)	L	-	20/1	C	20/1	-	L	BATH RM LTG/ EX FAN (2)	6
7	SUPERVISOR RECP (2)	R	-	20/1	A	20/1	-	R	BATH RM RECP (2)	8
9	LOCKER RM RECP (2)	R	-	20/1	B	20/1	-	R	BATH RM RECP (2)	10
11	CORR/EXTERIOR RECP (2)	R	-	20/1	C	20/1	-	R	RECEIVING RECP (2)	12
13	BREAK RM RECP (2)	R	-	20/1	A	20/1	-	R	ISSUE RECP (2)	14
15	BREAK RM COUNT RECP (2)	R	-	20/1	B	20/1	-	R	ISSUE RECP (2)	16
17	BREAK RM VENDING RECP (2)	D	-	20/1	C	20/3	-	D	DOCK LEVELER-SOUTH (2)	18
19	BREAK RM REFRIGERATOR (2)	A	-	20/1	A	-	-	-	-	20
21	BREAK ROOM OVEN (2)	A	-	50/2	B	-	-	-	-	22
23	-	-	-	-	C	20/3	-	D	DOCK LEVELER-NORTH (2)	24
25	VAV CONTROL PANEL (2)	P	-	20/1	A	-	-	-	-	26
27	UH-L, EF-1 (2)	D	-	20/1	B	-	-	-	-	28
29	P-2, EF-2, UH-2 (2)	D	-	20/1	C	20/1	-	WH	WATER HEATER (2)	30
31	RTU-1 (2)	D	-	35/3	A	20/1	-	D	P-1 (2)	32
33	-	-	-	-	B	20/1	-	D	P-2 (2)	34
35		-	-	-	C	20/1	-	A	MICROWAVE (2)	36
37	**RK-109-1A (1)**	D	2.880	30/1	A	-	-	S	SPACE	38
39	**RK-109-1B (1)**	D	2.880	30/1	B	-	-	S	SPACE	40
41	SPACE	S	-	20/1	C	-	-	S	SPACE	42

PHASE LOAD **PHASE A=** #VALUE! KVA **PHASE B=** #VALUE! KVA **PHASE C=** #VALUE! KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS	MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS	
CONNECTED LOAD		5.76								**5.76** KVA	**15.99** AMP
CALCULATED LOAD		5.76								**5.76** KVA	**15.99** AMP

NOTES: **NEW WORK IN BOLD**

1. PROVIDE NEW BREAKER. SIZE INDICATED ON THIS SCHEDULE. MATCH EXISTING TYPE AND MANUFACTURER.
2. EXISTING LOAD.



1 BLDG 147 ELECTRICAL ONE-LINE

SCALE: NTS

Revisions:	Date:

CONSULTANT

ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD

A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

EDWARD LAW — STATE OF WASHINGTON — 49709 — REGISTERED PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: BUILDING 147 ELECTRICAL ONE-LINE & PANEL SCHEDULES

PHASE: 100% CONSTRUCTION DOCUMENTS

PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES

PROJECT NUMBER: 568-21-701

BUILDING NUMBER: 147

APPROVED: Project Director: FOR OFFICIAL USE ONLY (FOUO)

FLS: FULLY SPRINKLERED

LOCATION: FORT MEADE, SOUTH DAKOTA

ISSUE DATE: 11/05/2024 | CHECKED BY: MER | DRAWN BY: LAW

DRAWING NUMBER: **147-EJ-001**

VA FORM 08 - 6231

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

GENERAL NOTES

1. COORDINATE ANY INTERRUPTIONS OF SERVICE FOR EXISTING EQUIPMENT WITH COR PRIOR TO DEMOLITION OR CONSTRUCTION.
2. REFER TO ELECTRICAL FEEDER SCHEDULE ON SHEET 000-EG-001 FOR ADDITIONAL INFORMATION AND FEEDER REQUIREMENTS.

KEYNOTES

1. CONTRACTOR TO PROVIDE NEW 208Y/120V, 100A, PANEL. REFER TO ASSOCIATED 'EP' SHEET FOR LOCATION OF NEW PANEL.
2. CONTRACTOR TO PROVIDE NEW 45KVA STEP-DOWN TRANSFORMER. PROVIDE ALL CONDUITS AND CONDUCTORS REQUIRED FOR COMPLETE OPERATION.
3. CONTRACTOR TO PROVIDE NEW BREAKER IN EXISTING SPACE. SIZE AS INDICATED ON THIS SHEET. MATCH EXISTING TYPE AND MANUFACTURER.
4. CONTRACTOR TO PROVIDE NEW 208Y/120V, 225A, PANEL. REFER TO ASSOCIATED 'EP' SHEET FOR LOCATION OF NEW PANEL.
5. CONTRACTOR TO PROVIDE NEW 75KVA STEP-DOWN TRANSFORMER. PROVIDE ALL CONDUITS AND CONDUCTORS REQUIRED FOR COMPLETE OPERATION.

208/120 VOLT **3** PHASE **4** WIRE — **PANEL** — **225 AMP** BUS RATING **225 AMP** MAIN BREAKER

LOCATION: **A114A** SUPPLIED BY: **PNL PX** — **(N)148-LE-A114A** — SCCR: **22,000 A** AFC:

SERVING: **TR & MECH** — FEED: **TOP** MOUNTING: **SURFACE**

CKT	LOAD	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD	CKT
1	RK-A114A-1A (1)	D	10.000	30/3	A	20/1	0.720	R	TR RM A114A RECEPTACLES (1)	2
3	-	-	-	-	B	20/1	0.720	R	TR RM A114A RECEPTACLES (1)	4
5	-	-	-	-	C	20/1	0.720	R	TR RM C106A RECEPTACLES (1)	6
7	RK-C106A-1A (1)	D	10.000	30/3	A	20/1	0.720	R	TR RM C106A RECEPTACLES (1)	8
9	-	-	-	-	B	20/1	0.720	R	TR RM F108 RECEPTACLES (1)	10
11	-	-	-	-	C	20/1	0.720	R	TR RM F108 RECEPTACLES (1)	12
13	RK-F108-1A (1)	D	10.000	30/3	A	20/1	0.180	R	148-RECP-1 (1)	14
15	-	-	-	-	B	20/1	0.180	R	148-RECP-2 (1)	16
17	-	-	-	-	C	20/1	0.208	L	RM A114A LIGHTS (1)	18
19	148-CU-1 (1)	M	0.208	25/2	A	20/1	0.208	L	RM C106A LIGHTS (1)	20
21	-	-	-	-	B	20/1	0.312	L	RM F108 LIGHTS (1)	22
23	148-CU-2 (1)	M	0.208	25/2	C	20/1	0.180	R	148-RECP-3 (1)	24
25	-	-	-	-	A	20/1	0.500	M	DRAIN PUMP (1)	26
27	148-CU-3 (1)	M	0.208	25/2	B	20/1	-	S	SPARE (1)	28
29	-	-	-	-	C	20/1	-	S	SPARE (1)	30
31	SPARE (1)	S	-	20/1	A	20/1	-	S	SPARE (1)	32
33	SPARE (1)	S	-	20/1	B	-	-	S	SPACE	34
35	SPARE (1)	S	-	20/1	C	-	-	S	SPACE	36
37	SPACE	S	-	-	A	-	-	S	SPACE	38
39	SPACE	S	-	-	B	-	-	S	SPACE	40
41	SPACE	S	-	-	C	-	-	S	SPACE	42

PHASE LOAD **PHASE A=** 12.54 KVA **PHASE B=** 12.14 KVA **PHASE C=** 12.04 KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS		MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS	
CONNECTED LOAD		30.00			0.73		1.12	4.86		0.50	**36.71** KVA	**101.90** AMP
CALCULATED LOAD		30.00			0.91		1.12	4.86		0.13	**37.02** KVA	**102.75** AMP

NOTES: **NEW WORK IN BOLD**
PROVIDE WITH 200% RATED NEUTRAL.
1. PROVIDE NEW BRANCH BREAKER. SIZE AS INDICATED ON THIS SCHEDULE.

208/120 VOLT **3** PHASE **4** WIRE — **PANEL** — **100 AMP** BUS RATING **100 AMP** MAIN BREAKER

LOCATION: **A114A** SUPPLIED BY: **B146 MSWB** — **(N)148-LN-A114A** — SCCR: **22,000 A** AFC:

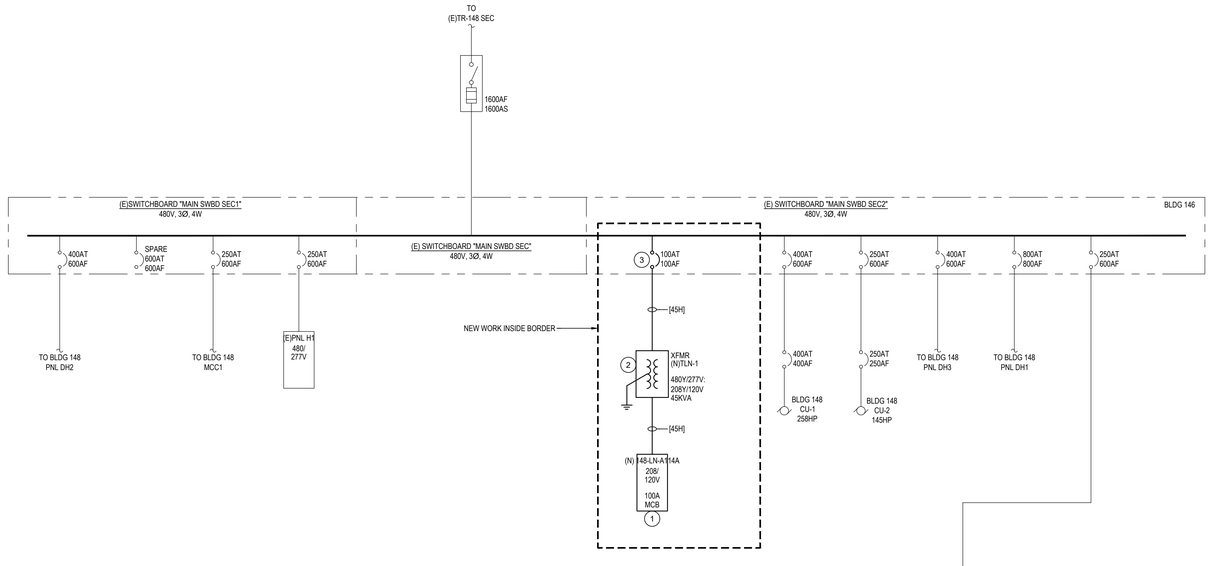
SERVING: **TR** — FEED: **TOP** MOUNTING: **SURFACE**

CKT	LOAD	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD	CKT
1	RK-A114A-1B (1)	D	10.000	30/3	A	20/1	-	S	SPARE (2)	2
3	-	-	-	-	B	20/1	-	S	SPARE (2)	4
5	-	-	-	-	C	201	-	S	SPARE (2)	6
7	RK-C106A-1B (1)	D	10.000	30/3	A	-	-	S	SPACE	8
9	-	-	-	-	B	-	-	S	SPACE	10
11	-	-	-	-	C	-	-	S	SPACE	12
13	RK-F108-1B (1)	D	10.000	30/3	A	-	-	S	SPACE	14
15	-	-	-	-	B	-	-	S	SPACE	16
17	-	-	-	-	C	-	-	S	SPACE	18
19	SPACE	S	-	-	A	-	-	S	SPACE	20
21	SPACE	S	-	-	B	-	-	S	SPACE	22
23	SPACE	S	-	-	C	-	-	S	SPACE	24
25	SPACE	S	-	-	A	-	-	S	SPACE	26
27	SPACE	S	-	-	B	-	-	S	SPACE	28
29	SPACE	S	-	-	C	-	-	S	SPACE	30
31	SPACE	S	-	-	A	-	-	S	SPACE	32
33	SPACE	S	-	-	B	-	-	S	SPACE	34
35	SPACE	S	-	-	C	-	-	S	SPACE	36
37	SPACE	S	-	-	A	-	-	S	SPACE	38
39	SPACE	S	-	-	B	-	-	S	SPACE	40
41	SPACE	S	-	-	C	-	-	S	SPACE	42

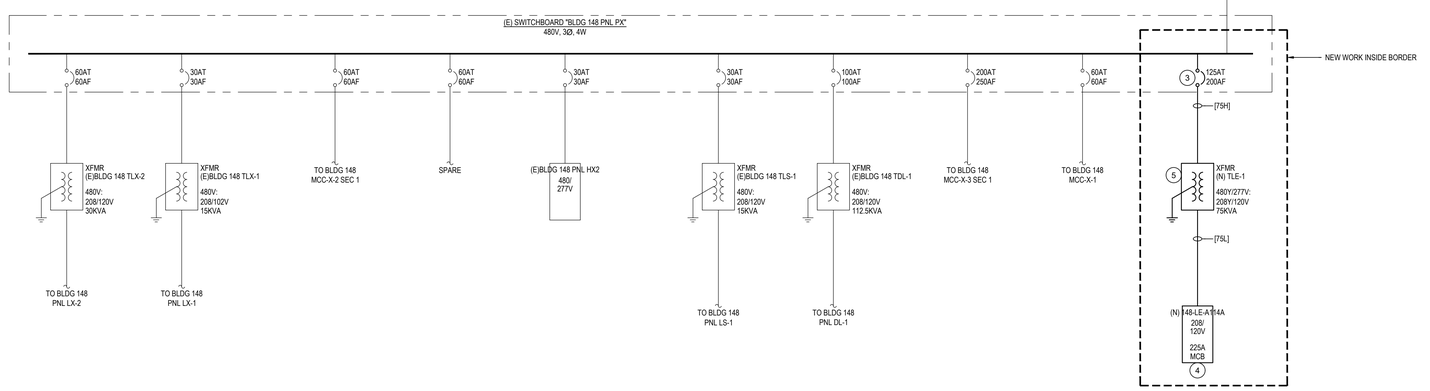
PHASE LOAD **PHASE A=** 10.00 KVA **PHASE B=** 10.00 KVA **PHASE C=** 10.00 KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS		MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS	
CONNECTED LOAD		30.00									**30.00** KVA	**83.27** AMP
CALCULATED LOAD		30.00									**30.00** KVA	**83.27** AMP

NOTES: **NEW WORK IN BOLD**
PROVIDE WITH 200% RATED NEUTRAL.
1. PROVIDE NEW BRANCH BREAKER. SIZE AS INDICATED ON THIS SCHEDULE.



1 BLDG 148 NORMAL ELECTRICAL ONE-LINE
SCALE: NTS



2 BLDG 148 EMERGENCY ELECTRICAL ONE-LINE
SCALE: NTS

Revisions:	Date:

CONSULTANT
ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD
A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP
ADAM EDWARD GODDIN — STATE OF WASHINGTON — 21702 — REGISTERED PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE BUILDING 148 ELECTRICAL ONE-LINE & PANEL SCHEDULES

PHASE 100% CONSTRUCTION DOCUMENTS

PROJECT TITLE EHRM INFRASTRUCTURE UPGRADES

PROJECT NUMBER 568-21-701

BUILDING NUMBER 148

APPROVED: Project Director FOR OFFICIAL USE ONLY (FOUO)

FLS FULLY SPRINKLERED

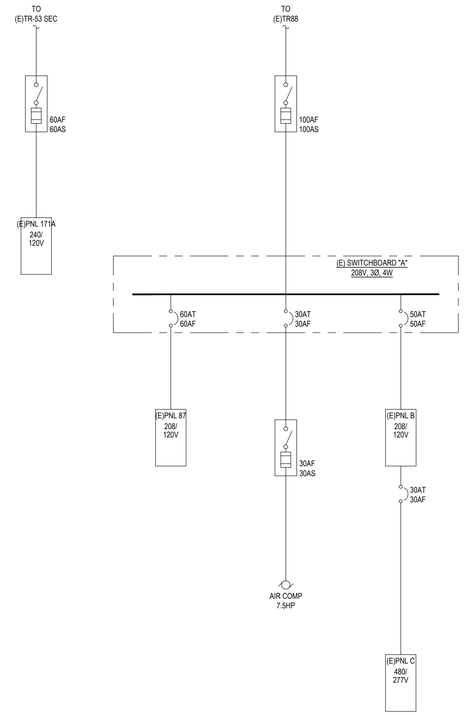
LOCATION FORT MEADE, SOUTH DAKOTA

ISSUE DATE 11/05/2024 | **CHECKED BY** MER | **DRAWN BY** LAW

DRAWING NUMBER 148-EJ-001

VA FORM 08 - 6231

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.



208/120 VOLT **3** PHASE **4** WIRE

LOCATION: **GARAGE** SUPPLIED BY:

SERVING: **GARAGE**

PANEL (E)B

100 AMP BUS RATING **100 AMP** MAIN BREAKER

SCCR: **22,000 A** AFC:

FEED: **TOP** MOUNTING: **SURFACE**

CKT	LOAD	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD	CKT
1	TANK MONITOR (2)	**D**	-	20/1	A	20/1	-	**D**	EM SHUTDOWN COIL (2)	2
3	TANK ALARM (2)	**D**	-	20/1	B	30/2	-	**P**	PANEL C (2)	4
5	OUTSIDE LIGHTS (2)	**L**	-	20/1	C	-	-	-	-	6
7	COVE HEATER (2)	**H**	-	15/2	A	30/2	-	L	PUMP LIGHTS (2)	8
9	-	-	-	-	B	-	-	-	-	10
11	WELDER (2)	**D**	-	50/2	C	**30/1**	**1.440**	**D**	**RK-101B-1A (1)(3)**	**12**
13	-	-	-	-	A	**30/1**	**1.440**	**D**	**RK-101B-1B (1)(3)**	14
15	**T171-CU-1 (1)**	**M**	**4.160**	**25/2**	B	-	-	S	SPACE	16
17	-	**-**	**-**	-	C	-	-	S	SPACE	18
19	**T171-RECP-1 (1)**	**R**	**0.180**	**20/1**	A	-	-	S	SPACE	20
21	**SPACE**	**S**	**-**	-	B	-	-	S	SPACE	22
23	**SPACE**	**S**	**-**	-	C	-	-	S	SPACE	24

PHASE LOAD **PHASE A=** **#VALUE!** KVA **PHASE B=** **#VALUE!** KVA **PHASE C=** **#VALUE!** KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS		MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS	
CONNECTED LOAD		2.88					4.16	0.18		4.16	**7.22** KVA	**20.04** AMP
CALCULATED LOAD		2.88					4.16	0.18		1.04	**8.26** KVA	**22.93** AMP

NOTES: **NEW WORK IN BOLD**

1. PROVIDE NEW BREAKER AS INDICATED ON THIS SCHEDULE. MATCH EXISTING TYPE AND MANUFACTURER.
2. EXISTING LOAD.
3. LOAD REPRESENTED AS 50% OF THE OVERALL LOAD FOR THE ACTIVE EQUIPMENT IN THE TELECOMMUNICATIONS ENCLOSURE.

1 BLDG T-171 ELECTRICAL ONE-LINE

SCALE: NTS

Revisions:	Date:

CONSULTANT

ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD

A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

ADAM EDWARD GODDIN — STATE OF WASHINGTON — 21772 — REGISTERED PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: BUILDING T-171 ELECTRICAL ONE-LINE & PANEL SCHEDULES

PHASE: 100% CONSTRUCTION DOCUMENTS

PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES

PROJECT NUMBER: 568-21-701

BUILDING NUMBER: T-171

APPROVED: Project Director: FOR OFFICIAL USE ONLY (FOUO)

FLS: FULLY SPRINKLERED

LOCATION: FORT MEADE, SOUTH DAKOTA

ISSUE DATE: 11/05/2024 | CHECKED BY: MER | DRAWN BY: LAW

DRAWING NUMBER: **T171-EJ-001**

VA FORM 08 - 6231

THIS DRAWING WAS PRODUCED FROM ORIGINAL AS-BUILT DRAWINGS AND FIELD OBSERVATIONS, AND MAY NOT REPRESENT AN ACCURATE AS-BUILT CONDITION. DISCREPANCIES MAY BE ENCOUNTERED, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

568-21-701 FORT MEADE EHRM
30-DAY DEMAND: PANEL : 296-A

VOLTS: **208 V**	3PH/4W	FEEDER RATING:	**200 A**
		OCPD RATING:	**200 A**
PEAK DEMAND, MEASURED FROM 07/29/24 - 08/01/24:			**130.06 A**
POWER FACTOR: 1		DIVIDE BY: 100%	**46.85 KVA**
MAX. DEMAND AT 125% (NEC 220.87):		125%	**58.57 KVA**
NEW LOAD ADDED			**12.7 KVA**
MAXIMUM DEMAND AT 125% PLUS NEW LOAD IN KVA:			**71.23 KVA**
MAXIMUM DEMAND AT 125% PLUS NEW LOAD IN AMPS:			**197.7 A**
EXISTING FEEDER CAPACITY IN AMPS:			**200 A**
NEW DEMAND LOAD DOES NOT EXCEED EXISTING FEEDER AMPACITY(?):			YES

208/120 VOLT **3** PHASE **4** WIRE
LOCATION: **C200** SUPPLIED BY: **(E) ATS**
SERVING: **CRITICAL LOADS**

PANEL
(N)296-LE-C200

100 AMP BUS RATING **100 AMP** MAIN BREAKER
SCCR: **22,000 A** AFC:
FEED: **TOP** MOUNTING: **FLUSH**

CKT	LOAD	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD	CKT
1	RK-104-1A (1)	D	2.500	20/3	A	45/2	4.560	M	T296-CU-1 (1)	2
3	-	-	-	-	B	-	-	-	-	4
5	-	-	-	-	C	20/3	2.500	D	RK-104-1B (1)	6
7	T296-RECP-1 (1)	R	0.180	20/1	A	-	-	-	-	8
9	TR RM 104 LIGHTS (1)	L	0.104	20/1	B	-	-	-	-	10
11	SPARE (1)	S	-	20/1	C	20/1	0.720	R	TR 104 RECEPTACLES (1)	12
13	SPARE (1)	S	-	20/1	A	20/1	0.720	R	TR 104 RECEPTACLES (1)	14
15	SPARE (1)	S	-	20/1	B	20/1	-	S	SPARE (1)	16
17	SPACE	S	-	-	C	20/1	-	S	SPARE (1)	18
19	SPACE	S	-	-	A	20/1	-	S	SPARE (1)	20
21	SPACE	S	-	-	B	-	-	S	SPACE	22
23	SPACE	S	-	-	C	-	-	S	SPACE	24
25	SPACE	S	-	-	A	-	-	S	SPACE	26
27	SPACE	S	-	-	B	-	-	S	SPACE	28
29	SPACE	S	-	-	C	-	-	S	SPACE	30

PHASE LOAD **PHASE A=** 4.85 KVA **PHASE B=** 4.05 KVA **PHASE C=** 2.39 KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS		MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS	
CONNECTED LOAD		5.00			0.10		4.56	1.62		4.56	**11.28** KVA	**31.32** AMP
CALCULATED LOAD		5.00			0.13		4.56	1.62		1.14	**12.45** KVA	**34.56** AMP

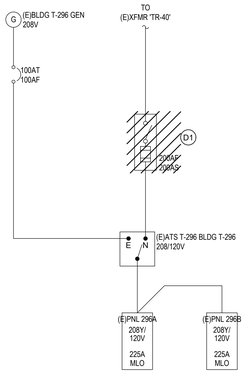
NOTES: **NEW WORK IN BOLD**
PROVIDE WITH 200% RATED NEUTRAL.
1. PROVIDE NEW BREAKER SIZE AS INDICATED ON THIS SCHEDULE.
2. CIRCUIT MOVED FROM EXISTING PANEL 296-A. REROUTE EXISTING CONDUIT AND CONDUCTORS TO NEW BREAKER.

GENERAL DEMOLITION NOTES

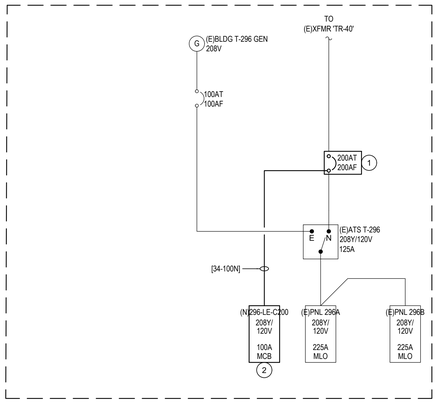
1. VISIT AND EXAMINE THE SITE PRIOR TO INITIATION OF WORK TO ASCERTAIN THE CONDITIONS AND LIMITS OF DEMOLITION AND CONSTRUCTION.
2. COORDINATE ANY INTERRUPTIONS OF SERVICE FOR EXISTING EQUIPMENT WITH COR PRIOR TO DEMOLITION OR CONSTRUCTION.

DEMOLITION KEYNOTES

(D1) EXISTING SERVICE DISCONNECT TO BE REMOVED. EXISTING FEEDERS TO REMAIN FOR REUSE.



1 BUILDING T-296 ELECTRICAL DEMOLITION ONE-LINE
SCALE: NTS



2 BUILDING T-296 ELECTRICAL REMODEL ONE-LINE
SCALE: NTS

GENERAL NOTES

1. COORDINATE ANY INTERRUPTIONS OF SERVICE FOR EXISTING EQUIPMENT WITH COR PRIOR TO DEMOLITION OR CONSTRUCTION.
2. REFER TO ELECTRICAL FEEDER SCHEDULE ON SHEET 000-EG-001 FOR ADDITIONAL INFORMATION AND FEEDER REQUIREMENTS.

KEYNOTES

(1) PROVIDE NEW 200A/3P, 100% RATED ENCLOSED CIRCUIT BREAKER RATED AT 208V, IN NEMA 1 ENCLOSURE. RECONNECT EXISTING FEEDERS. PROVIDE ENCLOSED CIRCUIT BREAKER WITH NEW DOUBLE LUG KIT.

(2) CONTRACTOR TO PROVIDE NEW 208Y/120V, 100A, PANEL. REFER TO ASSOCIATED 'EP' SHEET FOR LOCATION OF NEW PANEL.

Revisions:	Date:

CONSULTANT
ELECTRICAL ENGINEER
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
MICHAEL REBSTOCK, PE

ARCHITECT/ENGINEER OF RECORD
A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP
LICENSED ARCHITECT STATE OF WASHINGTON REGISTERED PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT
VA U.S. Department of Veterans Affairs

DRAWING TITLE: BUILDING T-296 ELECTRICAL ONE-LINES & PANEL SCHEDULES
PHASE: 100% CONSTRUCTION DOCUMENTS
PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES
PROJECT NUMBER: 568-21-701
BUILDING NUMBER: T-296
APPROVED: Project Director: FOR OFFICIAL USE ONLY (FOUO)
FLS: FULLY SPRINKLERED
LOCATION: FORT MEADE, SOUTH DAKOTA
ISSUE DATE: 11/05/2024
CHECKED BY: MER
DRAWN BY: LAW
DRAWING NUMBER: **T296-EJ-001**

VA FORM 08 - 6231

CODES AND STANDARDS

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
- NFPA 1: FIRE CODE, 2021
- NFPA 10: STANDARD FOR PORTABLE FIRE EXTINGUISHERS, 2022
- NFPA 13: STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, 2022
- NFPA 70: NATIONAL ELECTRICAL CODE, 2020
- NFPA 70E: STANDARD FOR ELECTRICAL SAFETY IN THE WORKPLACE, 2021
- NFPA 72: NATIONAL FIRE ALARM AND SIGNALING CODE, 2022
- NFPA 75: STANDARD FOR THE FIRE PROTECTION OF INFORMATION TECHNOLOGY EQUIPMENT, 2020
- NFPA 101: LIFE SAFETY CODE, 2021
- NFPA 241: STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION, AND DEMOLITION OPERATIONS, 2022
- NFPA 291: RECOMMENDED PRACTICE FOR WATER FLOW TESTING AND MARKING OF HYDRANTS, 2022
- NFPA 2001: STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS 2022

DEPARTMENT OF VETERANS AFFAIRS
- VA FIRE PROTECTION DESIGN MANUAL, 9TH EDITION, NOVEMBER 2023

DEFINITIONS

1. **TELECOMMUNICATIONS SPACE:** AN AREA USED FOR HOUSING THE INSTALLATION AND TERMINATION OF TELECOMMUNICATIONS EQUIPMENT AND CABLE. TELECOMMUNICATIONS SPACES INCLUDE ENTRANCE ROOMS, DATA CENTERS, MAIN COMPUTER ROOMS, HORIZONTAL PATHWAYS, VERTICAL PATHWAYS, ETC. THE TERM "TELECOMMUNICATIONS SPACES" IS USED INTERCHANGEABLY WITH THE TERM "IT SUPPORT SPACE."
   A. DATA CENTER ROOM 132 IS A TELECOMMUNICATION SPACE WITH A ANSI/TIA-942-B PLANNED RATING OF 3.
   B. ENTRANCE ROOM 137B IS A TELECOMMUNICATION SPACES WITH ANSI/TIA-942-B PLANNED RATING OF 1 AS IDENTIFIED IN THE OIT INFRASTRUCTURE STANDARD FOR TELECOMMUNICATION SPACES, TABLE 3.
2. **TELECOMMUNICATIONS ROOM (TR)**: A TELECOMMUNICATIONS SPACE THAT DIFFERS FROM EQUIPMENT ROOMS AND ENTRANCE ROOMS IN THAT THIS SPACE IS A FLOOR-SERVING SPACE THAT PROVIDES A CONNECTION POINT BETWEEN BACKBONE AND HORIZONTAL CABLING. THE TERMS "CLOSET," "TELECOM CLOSET," "PHONE CLOSET," "INTERMEDIATE DISTRIBUTION FRAME (IDF)," ETC. ARE NO LONGER USED. BLUEPRINTS ARE TO USE THE ABBREVIATION "TR."
   A. THE TYPICAL TELECOMMUNICATION ROOM FOR THIS PROJECT HAS AN ANSI/TIA-942-B PLANNED RATING OF 1 AS IDENTIFIED IN THE OIT INFRASTRUCTURE STANDARD FOR TELECOMMUNICATION SPACES, TABLE 3.

FIRE EXTINGUISHERS

1. PROVIDE NEW CLEAN AGENT OR CO2 EXTINGUISHERS AND NEW FIRE EXTINGUISHER CABINETS FOR ALL TELECOMMUNICATIONS ROOMS (TRs) AND TELECOMMUNICATION ENCLOSURES (TEs) OUTSIDE OF THE ROOM, BUT NO GREATER THAN 75 FEET AWAY. COORDINATE LOCATIONS OF NEW CABINETS WITH THE ARCHITECTURAL DRAWINGS. THE TOTAL QUANTITY OF TR AND TE CLEAN AGENT FIRE EXTINGUISHERS AND CABINETS IS QUANTITY 30.
2. PROVIDE QUANTITY 2 NEW CLEAN AGENT OR CO2 EXTINGUISHERS AND TWO FIRE EXTINGUISHER CABIENTS FOR THE MAIN COMPUTER ROOM WITHIN THE DATA CENTER ROOM 132.
3. PROVIDE QUANTITY 1 NEW CLEAN AGENT OR CO2 FIRE EXTINGUISHER AND A FIRE EXTINGUISHER CABINET FOR ENTRANCE ROOM 137B.
4. PROVIDE FLAG TYPE FIRE EXTINGUISHER SIGNAGE FOR EVERY NEW FIRE EXTINGUISHER LOCATION. SIGN TYPE SHALL BE 9" HIGH X 9" WIDE, ACRYLIC PLAQUE WITH ALUMINUM BRACKET FOR FLAG MOUNTING. GRAPHIC PROCESS SHALL BE DIRECT DIGITAL PRINT ON SECOND SURFACE OR SILK-SCREENED. TEXT AND SYMBOL SHALL BE WHITE. BACKGROUND SHALL BE RED. TYPOGRAPHY SHALL BE HELVETICA BOLD. MINIMUM MOUNTING HEIGHT TO THE BOTTOM OF THE SIGN SHALL BE 80". MOUNT CENTERED ABOVE FIRE EXTINGUISHER CABINET. REFER TO VA SIGNAGE DESIGN MANUAL, PG 18-10, SIGN IN-01.31 FOR LAYOUT OF SIGNAGE.

FIRESTOPPING OF WALL PENETRATIONS

1. AS OUTLINED IN SPECIFICATION 07 84 00, THE CONTRACTOR IS REQUIRED TO PROVIDE UL OR EQUIVALENT FIRESTOPPING SYSTEMS FOR THE CLOSURES OF OPENINGS IN WALLS, FLOORS, AND ROOF DECKS AGAINST PENETRATION OF FLAME, HEAT AND SMOKE OR GASES IN FIRE RESISTANT RATED CONSTRUCTION.
2. THE CONTRACTOR IS REQUIRED TO ENGAGE A QUALIFIED THIRD PARTY INSPECTOR TO PERFORM INSPECTIONS AND FINAL REPORTS OF ALL FIRESTOPPING SYSTEMS.
3. A UL OR EQUIVALENT LISTED FIRESTOPPING SYSTEM IS REQUIRED FOR ALL RATED WALLS AND PENETRATIONS THROUGH RATED WALLS, INCLUDING BUT NOT LIMITED TO:
   A. CABLE TRAY PENETRATIONS
   B. OTHER CABLE PENETRATIONS
   C. PIPE PENETRATIONS
   D. DUCT PENETRATIONS
   E. 1 HOUR, 2 HOUR, AND 3 HOUR RATED WALL ASSEMBLIES
4. THE CONTRACTOR MUST REQUEST A PERMIT ON ALL FIRE AND/OR SMOKE RATED WALLS THAT REQUIRE NEW PENETRATIONS TO ACCOMPLISH THE WORK.
5. THE CONTRACTOR MUST SUBMIT ALL PROPOSED PENETRATIONS ASSEMBLIES TO THE VA PRIOR TO BEGINNING CONSTRUCTION. THE UL LISTED SYSTEM NUMBERS PROPOSED FOR USE WILL NEED TO BE IDENTIFIED. THE FIRESTOPPING PENETRATIONS WILL NEED TO BE INSPECTED AGAINST THE SELECTED SYSTEM NUMBERS.
6. THE CONTRACTOR MUST SEAL ANY PENETRATIONS IN RATED WALLS THAT ARE ABANDONED DUE TO WORK COMPLETED FOR THIS SCOPE IN ACCORDANCE WITH A LISTED PENETRATION ASSEMBLY CORRESPONDING TO THE APPROPRIATE RATING OF THE BARRIER BEING PENETRATED.

TEMPORARY FIRE SUPPRESSION

1. EXISTING SPRINKLER SYSTEM WILL BE MODIFIED AS NECESSARY TO MAINTAIN PROTECTION DURING ALL CONSTRUCTION, ALTERATION, AND DEMOLITION. SUPPRESSION SYSTEM IS TO BE MAINTAINED AS OPERATIONAL THROUGHOUT CONSTRUCTION.
2. IN ACCORDANCE WITH NFPA 241, EITHER TEMPORARY RATED CONSTRUCTION BARRIERS OR CONTINUED FIRE SPRINKLER COVERAGE ARE REQUIRED FOR FIRE SAFETY PROTECTION DURING CONSTRUCTION. CONTINUOUS FIRE SPRINKLER COVERAGE MUST COMPLY AS FOLLOWS: IN AREAS WHERE AN EXISTING DROP CEILING IS REMOVED FOR CONSTRUCTION DUE TO THIS SCOPE OF WORK, NEW UPRIGHT SPRINKLERS ARE REQUIRED TO BE PROVIDED TO MATCH THE DECK HEIGHT ABOVE. DROP CEILINGS THAT ARE TEMPORARILY REMOVED REQUIRE NEW UPRIGHT SPRINKLER HEADS TO BE TEMPORARILY INSTALLED UNTIL THE NEW DROP CEILING IS INSTALLED AND NEW PENDENT SPRINKLERS ARE INSTALLED. ANY SPRINKLER WHICH IS REQUIRED TO REVERT TO PENDENT INSTALLATION MUST BE REPLACED WITH A NEW PENDENT SPRINKLER. SPRINKLERS CANNOT BE REMOVED AND REINSTALLED.
3. PER NFPA 241-2022 EDITION, 8.7.3.1 - IF AUTOMATIC SPRINKLER PROTECTION IS TO BE PROVIDED, THE INSTALLATION SHALL BE PLACED IN SERVICE AS SOON AS PRACTICABLE.

FIRE SPRINKLER GENERAL NOTES

1. CONTRACTORS FOR SUPPRESSION SYSTEMS ARE REQUIRED TO PROVIDE CALCULATIONS AND WORKING DRAWINGS FOR NEW OR MODIFIED SYSTEMS.
2. SPRINKLER SHOP DRAWINGS SHALL BE APPROVED PRIOR TO THE INSTALLATION OF ANY PIPE. A SET OF APPROVED PLANS SHALL BE MAINTAINED AT ALL TIMES.
3. ALL PIPE LOCATIONS ARE TO BE FIELD MEASURED PRIOR TO FABRICATION AND INSTALLATION BY SPRINKLER CONTRACTOR.
4. ALL PIPING IS SHOWN FOR SCHEMATIC PURPOSES ONLY. CONTRACTOR TO PROVIDE PIPING LAYOUT AND ARRANAGEMENT ON SHOP DRAWINGS.
5. ALL PIPES AND HANGERS ARE TO BE INSTALLED PER NFPA 13 (2022).
6. HANGERS ARE TO BE U.L. LISTED OR F.M. APPROVED.
7. ALL VALVES SHALL HAVE A PERMANENTLY AFFIXED SIGN INDICATING FUNCTION AND BUILDING PROTECTED.
8. ALL VALVES CONTROLLING THE WATER SUPPLY FOR AUTOMATIC SPRINKLER SYSTEMS SHALL BE ELECTRICALLY SUPERVISED BY AN APPROVED CENTRAL STATION.
9. SPRINKLER PIPE AND FITTINGS MUST BE METAL.
10. PIPE JOINTS MUST CONFORM TO NFPA 13
11. FITTINGS, MECHANICAL COUPLINGS, AND RUBBER GASKETS MUST BE PRODUCTS OF THE SAME MANUFACTURER.
12. THE INSTALLER SHALL PERFORM ALL REQUIRED ACCEPTANCE TESTS IN THE PRESENCE OF THE FIRE INSPECTOR
13. ALL SYSTEM PIPING SHALL BE HYDROSTATICALLY TESTED AT 200 PSI FOR TWO HOURS OR AT 50 PSI ABOVE THE SYSTEM OPERATING PRESSURE, WHICHEVER IS GREATER.
14. PORTION OF PIPING SERVING THE MAIN COMPUTER ROOM SHALL BE SLOPED TO ALLOW PIPING TO DRAIN COMPLETELY TO MINIMIZED TRAPPED WATER.
15. PROVIDE AIR VENTING AT HIGH POINTS IN THE SYSTEM AS REQUIRED BY NFPA 13-2022 16.7
16. ALL SPRINKLER PIPING TO BE PAINTED RED.

FIRE SUPPRESSION SUMMARY FOR TELECOMMUNICATION SPACES

1. A CLEAN AGENT SUPPRESSION SYSTEM WILL BE PROVIDED IN THE MAIN COMPUTER ROOM AS REQUIRED BY VA FIRE PROTECTION DESIGN MANUAL SECTION 3.7.B AND WILL COMPLY WITH NFPA 2001.
2. IN ACCORDANCE WITH THE VA FIRE PROTECTION DESIGN MANUAL, TELECOMMUNICATION SPACES SHALL BE PROVIDED WITH COMPLETE WET PIPE SPRINKLER SYSTEM COVERAGE. SPRINKLERS MUST BE FUSIBLE LINK SPRINKLERS LISTED AS STANDARD RESPONSE HEADS, INTERMEDIATE TEMPERATURE, AND PROVIDED LISTED MECHANICAL GUARDS.

FIRE SUPPRESSION SUMMARY FOR TELECOMMUNICATION ROOMS

1. EXISTING SPRINKLERS SHALL NOT BE REINSTALLED AFTER REMOVAL.
2. EXISTING AND NEW TRS WILL BE PROTECTED BY THE EXISTING SPRINKLER SYSTEM AND WILL NOT BE PROVIDED WITH ANY ADDITIONAL FIRE PROTECTION SUCH AS FIRE RATED WALLS, SMOKE DETECTION, OR A GASEOUS SUPPRESSION SYSTEM.
3. EXISTING FIRE SPRINKLER LAYOUTS MUST BE MODIFIED AS NEEDED FOR NEW CEILING CONFIGURATIONS AND OBSTRUCTIONS IN ACCORDANCE WITH NFPA 13.
4. IN AREAS WITH A CEILING HEIGHT CHANGE, SPRINKLERS WILL BE RELOCATED TO THE NEW CEILING HEIGHT IN ACCORDANCE WITH NFPA 13.
5. ALL TELECOMMUNICATION ROOMS TO BE PROTECTED AS LIGHT HAZARD AS DEFINED BY NFPA 13.
6. PROVIDE INTERMEDIATE TEMPERATURE, STANDARD RESPONSE, FUSIBLE LINK SPRINKLERS FOR ALL TELECOMMUNICATION ROOMS, ENCLOSURES, AND ENTRANCE ROOMS. PROVIDE MECHANICAL GUARDS.
7. IT IS NOT PERMITTED TO MIX STANDARD AND QUICK RESPONSE SPRINKLERS WITHIN A COMPARTMENT AS DEFINED BY NFPA 13.

FIRE DETECTION AND NOTIFICATION - GENERAL NOTES

1. THE CONTRACTOR IS REQUIRED TO PROVIDE ALL LABOR, MATERIALS, PROGRAMMING, AND TESTING AS REQUIRED FOR THE INSTALLATION AND INTEGRATION OF ANY NEW FIRE ALARM DEVICES WITH THE EXISTING FIRE ALARM SYSTEM.
2. THE SCOPE OF THIS PROJECT IS TO BRING TELECOMMUNICATION SPACES AND ROOMS WITHIN THE EHRM PROGRAM INTO COMPLIANCE WITH CURRENT CODE REQUIREMENTS. THIS INCLUDES THE MODIFICATION OF EXISTING FIRE ALARM SYSTEMS IN THE SCOPE OF WORK AREAS. MODIFICATION OF THE EXISTING FIRE ALARM SYSTEM SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE VA FIRE PROTECTION DESIGN MANUAL- NINTH EDITION, NFPA 70-2020, AND NFPA 72-2022.
3. FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR DEVELOPING CALCULATIONS AND SHOP DRAWINGS FOR THE MAIN COMPUTER ROOM. SYSTEM MODIFICATION SHALL BE CONSIDERED WITH RESPECT TO FLOOR PLAN CHANGES.
4. NOTIFICATION APPLIANCES SHALL MATCH EXISTING MANUFACTURER AND MODEL OR BE COMPATIBLE WITH THE EXISTING SYSTEM. HORNS AND STROBES SHALL BE WHITE FINISH TO MATCH EXISTING DEVICES.
5. CONTRACTOR SHALL COORDINATE AND VERIFY DEMOLITION OR RELOCATION OF ITEMS WITH OWNER PRIOR TO COMMENCING WORK TO PREVENT INTERRUPTION OF SERVICE.
6. FIRE ALARM INPUT/OUTPUT MATRIX IS PROVIDED FOR NEW DEVICES LOCATED IN THE PROJECT AREA. ALL OTHER INPUTS SHALL MATCH EXISTING PANEL.
7. THE CONTRACTOR MUST PROVIDE BOTH AUDIBLE AND VISUAL ALARMS THROUGHOUT THE NEW SPACES TO MEET NFPA AND VA REQUIREMENTS. PROVIDE SMOKE DETECTION IN TELECOMMUNICATION SPACES IN ACCORDANCE WITH VA FIRE PROTECTION DESIGN MANUAL SECTION 3.7.C AND NFPA 72.
8. DO NOT PROVIDE FIRE ALARM NOTIFICATION AND DETECTION DEVICES IN TELECOMMUNICATION ROOMS.
9. PROVIDE NEW AUDIO-VISUAL HORN STROBE UNITS WITH COMBINATION HORN AND FLASHING ALARM STROBE AS SPECIFIED IN THE FOLLOWING FIRE PROTECTION DESIGN DOCUMENTS.
10. ALL NEW FIRE ALARM WIRING IS TO BE INSTALLED IN STEEL EMT CONDUIT. CONDUIT SHALL BE FACTORY PAINTED COLOR RED.

FLOW TEST

1. IT IS THE RESPONSBILITY OF THIS PROJECT'S CONTRACTOR TO PROVIDE A NEW WATER SUPPLY FLOW TEST IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 13 AND NFPA 291, PRIOR TO SUBMITTING FIRE SPRINKLER SHOP DRAWINGS.
2. PRELIMINARY FLOW TEST INFORMATION IS PROVIDED ON SHEET MCR-FP-105.

FIRE PROTECTION SPRINKLER SYSTEM DESIGN CRITERIA

MARK	HAZARD CLASSIFICATION	SYSTEM TYPE	DENSITY GPM/SF	REMOTE AREA SQ FT	MAXIMUM AREA PER SPRINKLER SQ FT	HOSE DEMAND GPM	SPRINKLER CHARACTERISTICS				
							TYPE	K-FACTOR	FINISH	CODE REFERENCES	NOTES
	LIGHT HAZARD	WET	0.10	1500	225	100	SEE NOTES	5.6	SEE NOTES	NFPA 13-2022 Table 10.2.4.2.1(a), Table 19.2.3.1.1, Table 19.2.3.1.2,	1,2,3,4,6,7
	ORDINARY HAZARD (GROUP 1)	WET	0.15	1500	130	250	SEE NOTES	5.6	SEE NOTES	NFPA 13-2022 Table 10.2.4.2.1(b), Table 19.2.3.1.1, Table 19.2.3.1.2	1,2,3,4,5,6,7
	ORDINARY HAZARD (GROUP 2)	WET	0.20	1500	130	250	SEE NOTES	5.6	SEE NOTES	NFPA 13-2022 Table 10.2.4.2.1(b), Table 19.2.3.1.1, Table 19.2.3.1.2	1,2,3,4,5

NOTE 1: IN ACCORDANCE WITH THE VA FIRE PROTECTION DESIGN MANUAL, ALL SPRINKLERS ARE REQUIRED TO BE FM APPROVED.
NOTE 2: PROVIDE INTERMEDIATE TEMPERATURE SPRINKLERS IN MECHANICAL, ELECTRICAL, TELECOMMUNICATION SPACES, TELECOMMUNICATION ROOMS, AND HIGHER TEMPERATURES WHERE REQUIRED BY NFPA 13.
NOTE 3: WHERE CEILINGS ARE NOT PROVIDED, USE QUICK RESPONSE BRASS UPRIGHT SPRINKLERS, UNLESS OTHERWISE NOTED. PROVIDE STANDARD RESPONSE, UPRIGHT, BRASS, AND FUSIBLE LINK SPRINKLERS IN TELECOMMUNICATION ROOMS. PROVIDE LISTED MECHANICAL GUARDS FOR SPRINKLERS IN ALL TELECOMMUNICATION ROOMS.
NOTE 4: WHERE CEILINGS ARE PRESENT, USE WHITE QUICK-RESPONSE SPRINKLERS, UNLESS OTHERWISE NOTED.
NOTE 5: IN TELECOMMUNICATION SPACES, PROVIDE STANDARD RESPONSE SPRINKLERS.
NOTE 6: PROVIDE LISTED GUARDS FOR SPRINKLERS IN ROOM 132 DATA CENTER, ROOM 137B ENTRANCE ROOM A, AND ALL TELECOMMUNICATION ROOMS.
NOTE 7: PROVIDE FUSIBLE LINK SPRINKLERS IN TELECOMMUNICATION ROOMS, ROOM 132 DATA CENTER, AND ROOM 137B ENTRANCE ROOM.

FIRE PROTECTION SCOPE OF WORK FOR TELECOMMUNICATION ROOMS, ENTRANCE ROOMS, MAIN COMPUTER ROOM, AND OTHER AFFECTED SPACES						Light Hazard (Note A)	Ordinary Hazard Group 1 (Note B)	Ordinary Hazard Group 2 (Note C)	Smoke Detection Required (Note D)	Clean Agent Fire Extinguisher and Cabinet Required
WORK AREAS						A	B	C	D	E
	Building	Current Room #	Room #	Department	Function					
1	40	102	100A	Carpentry	TE	●			No	Yes
2	46	B101	B105	Logistics	TE	●			No	Yes
3	48	102E	100	Law Enforcement	TE	●			No	Yes
4	50	B101	B201A	Post Office	TE	●			No	Yes
5	53	B108	TCB1	Finance/ CITC	TR	●			No	Yes
6	53	TE304	-	Finance/CITC	Abandoned TR	●			No	No
7	88	100A	B102D	CWT	TR	●			No	Yes
8	89	200	202	Engineering	TR	●			No	Yes
9	90	109	102A	Education	TR	●			No	Yes
10	103	-	-	Bowling/Storage	TE	●			No	Yes
11	110	102	102	Storage	TE	●			No	Yes
12	113	B01	B01	Pharmacy/Basement	TR	●			No	Yes
13	113	EC1F	n/a	Pharmacy 1st floor	Electrical Room		●		No	No
14	113	TC1A	n/a	Main entrance...	Abandoned TR	●			No	No
15	113	169	169A	-	TR	●			No	Yes
16	113	187A	187A	Office	TR	●			No	Yes
17	113	192	192A	Cashier/Office	Office Remodel	●			No	No
18	113	EC1C	169	Radiology	TR	●			No	Yes
19	113	EC1E	n/a	Primary Care/ BioMed	TR	●			No	Yes
20	113	S104	TCS103	Surgery Tower	TR	●			No	Yes
21	113	TCS103	TCS103	Surgery Tower	TR	●			No	Yes
22	113	TC2A	n/a	Med/Surg	Abandoned TR	●			No	No
23	137	104	104	Boiler Plant	TE	●			No	Yes
24	144	TE	n/a	Hoptel	TE	●			No	Yes
25	145	TC1A	122B	1st floor	TR	●			No	Yes
26	145	139B	n/a	PBX room	Storage			●	No	No
27	145	TC2A	229A	2nd floor	TR	●			No	Yes
28	145	TC3A	329	3rd floor	TR	●			No	Yes
29	146	117	108	NFS	TR	●			No	Yes
30	147	109	n/a	Laundry	TE	●			No	Yes
31	148	ATC2	A114A	Director's office	TR	●			No	Yes
32	148	FTC1	F108	E & G ward	TR	●			No	Yes
33	148	CTC1	C106A	Mental Health	TR	●			No	Yes
34	T171	100	100	Garage	TE	●			No	Yes
35	T296	-	104	Fire Station	TR	●			No	Yes
MAIN COMPUTER ROOM										
36	145	132	132	MCR	Data Center		●		Yes	Yes - Quantity 2
37	145	145-132A	145-132A	MCR	Clean Agent Room		●		Above RSFACU only	No
ENTRANCE ROOMS										
38	145	137B	137B	Entrance Room	Entrance Room		●		Yes	Yes
						A	B	C	D	E

● THIS SYMBOL INDICATES SCOPE INCLUDED AS PART OF THIS CONSTRUCTION CONTRACT. "YES" ALSO INDICATES SCOPE INCLUDED AS PART OF THIS CONTRACT.

NOTES:

A. FIRE SPRINKLER MODIFICATIONS WILL BE LIMITED TO SPACES BEING REMODELED AND IMPACTED ADJACENT SPACES, HOWEVER, THE EXISTING SPACES ARE SERVED BY PVC BRANCH LINES THAT WILL NEED TO BE REPLACED IN FULL WITH SCHEDULE 40 PIPE. THE EXISTING OVERHEAD FIRE SPRINKLER SYSTEMS ARE TO BE MODIFIED BY RELOCATING EXISTING SPRINKLER HEADS AND BRANCH PIPING AS NECESSARY FOR CHANGES TO SPACE FUNCTION, NEW DUCTWORK AND ELECTRICAL EQUIPMENT. ANY AFFECTED PVC BRANCH LINE WILL NEED TO BE REPLACED WITH SCHEDULE 40 PIPE. FIRE SPRINKLER COVERAGE WITHIN EACH RENOVATED SPACE WILL BE MODIFIED TO PROVIDE LIGHT HAZARD OCCUPANCIES BASED ON NFPA 13. MODIFICATIONS TO ACTIVE FIRE SPRINKLER SYSTEMS WILL INCLUDE COORDINATION OF FIRE SYSTEM SHUT-DOWN AND DRAINAGE ON EACH FLOOR LEVEL. SHUT DOWN OF A MONITORED SPRINKLER SYSTEM WILL REQUIRE NOTIFICATION OF THE FIRE DEPARTMENT AND A FIRE WATCH OF THE ENTIRE BUILDING OR FLOOR LEVEL DURING THE ENTIRE PERIOD THE SPRINKLER SYSTEM IS SHUT-OFF.
B. ORDINARY HAZARD GROUP 1 CLASSIFICATIONS REQUIRED PER VA MASTER SPECIFICATION 21 13 13 1.3.A.2.b
C. ORDINARY HAZARD GROUP 2 CLASSIFICATIONS REQUIRED PER VA MASTER SPECIFICATION 21 13 13 1.3.A.2.c
D. THE TELECOMMUNICATIONS ROOMS HAVE BEEN DESIGNATED AS AN ANSI/TIA-942-B RATING 1 SPACE/NON-MISSION CRITICAL AND WILL THEREFORE NOT REQUIRE SMOKE DETECTION IN ACCORDANCE WITH VA FIRE PROTECTION DESIGN MANUAL SECTION 3.7.C. CONTRACTOR TO DEMOLISH EXISTING SMOKE DETECTORS IN TELECOMMUNICATION ROOMS AS APPLICABLE.

CLEAN AGENT SUPPRESSION SYSTEM LEGEND

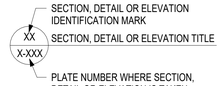
- RSFACU — RELEASING SERVICE FIRE ALARM CONTROL UNIT
- SPD — SURGE SUPPRESSION DEVICE
- CA — CLEAN AGENT SYSTEM MANUAL PULL STATION
- CA — CLEAN AGENT SYSTEM ABORT SWITCH
- KM — KEYED MAINTENANCE SWITCH
- SOV — SOLENOID VALVE
- CT — DISCRETE OUTPUT - DRY CONTACT
- CLEAN AGENT SYSTEM DISCHARGE RED STROBE
- CLEAN AGENT SYSTEM PRE-DISCHARGE AMBER STROBE
- S/Z — ZONE SMOKE DETECTOR
- VS — VALVE SUPERVISORY SWITCH
- PS — PRESSURE SWITCH
- AIM — ADDRESSABLE INPUT MODULE
- CLEAN AGENT ZONE BOUNDARY
- BATT — SECONDARY POWER SUPPLY (BATTERY)

FIRE SPRINKLER SYSTEM LEGEND

- UPRIGHT SPRINKLER

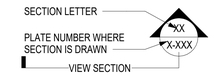
DETAIL AND SECTION VIEW LEGEND

DETAIL/SECTION TITLE



DETAIL CALLOUT SYMBOL

SECTION CUT SYMBOL



Revisions:	Date:

CONSULTANT
FIRE PROTECTION ENGINEERING
GDM
1308 NE 134th St., Suite A
Vancouver, WA 98685
541.436.4723
Conrad Chandler, PE

ARCHITECT/ENGINEER OF RECORD
A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP
CONRAD LAWRENCE CHANDLER — STATE OF WASHINGTON — 21012006 — REGISTERED PROFESSIONAL ENGINEER
11-05-2024

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE	FIRE PROTECTION GENERAL NOTES, DIAGRAM, AND LEGEND
PHASE	100% CONSTRUCTION DOCUMENTS
PROJECT TITLE	EHRM INFRASTRUCTURE UPGRADES
PROJECT NUMBER	568-21-701
BUILDING NUMBER	145
APPROVED: Project Director	FOR OFFICIAL USE ONLY (FOUO)
FLS	FULLY SPRINKLERED
LOCATION	FORT MEADE, SOUTH DAKOTA
ISSUE DATE	11/05/2024
CHECKED BY	GC
DRAWN BY	CC
DRAWING NUMBER	00-FP-001

VA FORM 08 - 6231

Fire Extinguisher Identification Flag Sign

Size
9" High x 9" Wide
(228.6 mm H x 228.6 mm W)

Description and Use
Fire extinguisher identification sign is a flag sign used to identify a fire extinguisher cabinet.

Use this sign in lieu of sign IN-01.02 except where there is a dead-end corridor in which viewing the sign would be difficult.

Message Configuration
Refer to layout drawing for lettering sizes and dimensions.

Sign Components
Acrylic plaque with aluminum bracket for flag mounting

Graphic Process
Direct digital print on second surface or silk-screened

Colors
Text and Symbol: White
Background: Red
Bracket: Aluminum
Refer to the chart in the Appendix.

Typography
Helvetica Bold

Mounting
Mechanical fasteners with expandable anchors as needed for wall type

Installation
Mount on wall centered above fire extinguisher cabinet. A flag-mounted sign should always be placed with the bottom of the sign at a minimum height at 80" (2032 mm) for clearance of pedestrians and equipment.

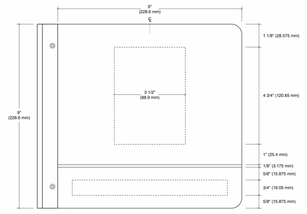
Message Layout

Side A

Side B

PG 18-10 Signage Design Manual
IN-01.31
Code & Life Safety Signage Drawings
May 16, 2023

Fire Extinguisher Identification Flag Sign



Message Layout

1 FIRE EXTINGUISHER SIGNAGE REQUIREMENTS

1. NOTE: IT IS THE RESPONSBILITY OF THIS PROJECT'S CONSTRUCTION CONTRACTOR TO PROVIDE NEW SIGNAGE AT ALL LOCATIONS OF CONTRACTOR SUPPLIED FIRE EXTINGUISHERS AND FIRE EXTINGUISHER CABINETS. SIGN TYPE SHALL BE 9" HIGH X 9" WIDE, ACRYLIC PLAQUE WITH ALUMINUM BRACKET FOR FLAG MOUNTING. GRAPHIC PROCESS SHALL BE DIRECT DIGITAL PRINT ON SECOND SURFACE OR SILK-SCREENED. TEXT AND SYMBOL SHALL BE WHITE. BACKGROUND SHALL BE RED. TYPOGRAPHY SHALL BE HELVETICA BOLD. MINIMUM MOUNTING HEIGHT TO THE BOTTOM OF THE SIGN SHALL BE 80". MOUNT CENTERED ABOVE FIRE EXTINGUISHER CABINET. REFER TO VA SIGNAGE DESIGN MANUAL, PG 18-10, SIGN IN-01.31 FOR LAYOUT OF SIGNAGE.

Revisions:	Date:

CONSULTANT
FIRE PROTECTION ENGINEERING
GDM
1308 NE 134th St., Suite A
Vancouver, WA 98685
541.436.4723
Conrad Chandler, PE

ARCHITECT/ENGINEER OF RECORD
A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP
CONRAD LAWRENCE CHANDLER
STATE OF WASHINGTON
21012006
REGISTERED
PROFESSIONAL ENGINEER
11-05-2024

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT
VA U.S. Department of Veterans Affairs

DRAWING TITLE: FIRE EXTINGUISHER SIGNAGE REQUIREMENTS
PHASE: 100% CONSTRUCTION DOCUMENTS
PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES
PROJECT NUMBER: 568-21-701
BUILDING NUMBER: 145
APPROVED: Project Director: FOR OFFICIAL USE ONLY (FOUO)
FLS: FULLY SPRINKLERED
LOCATION: FORT MEADE, SOUTH DAKOTA
ISSUE DATE: 09/27/2024
CHECKED BY: GC
DRAWN BY: CC
DRAWING NUMBER: 00-FP-002

VA FORM 08 - 6231

FIRE ALARM GENERAL NOTES

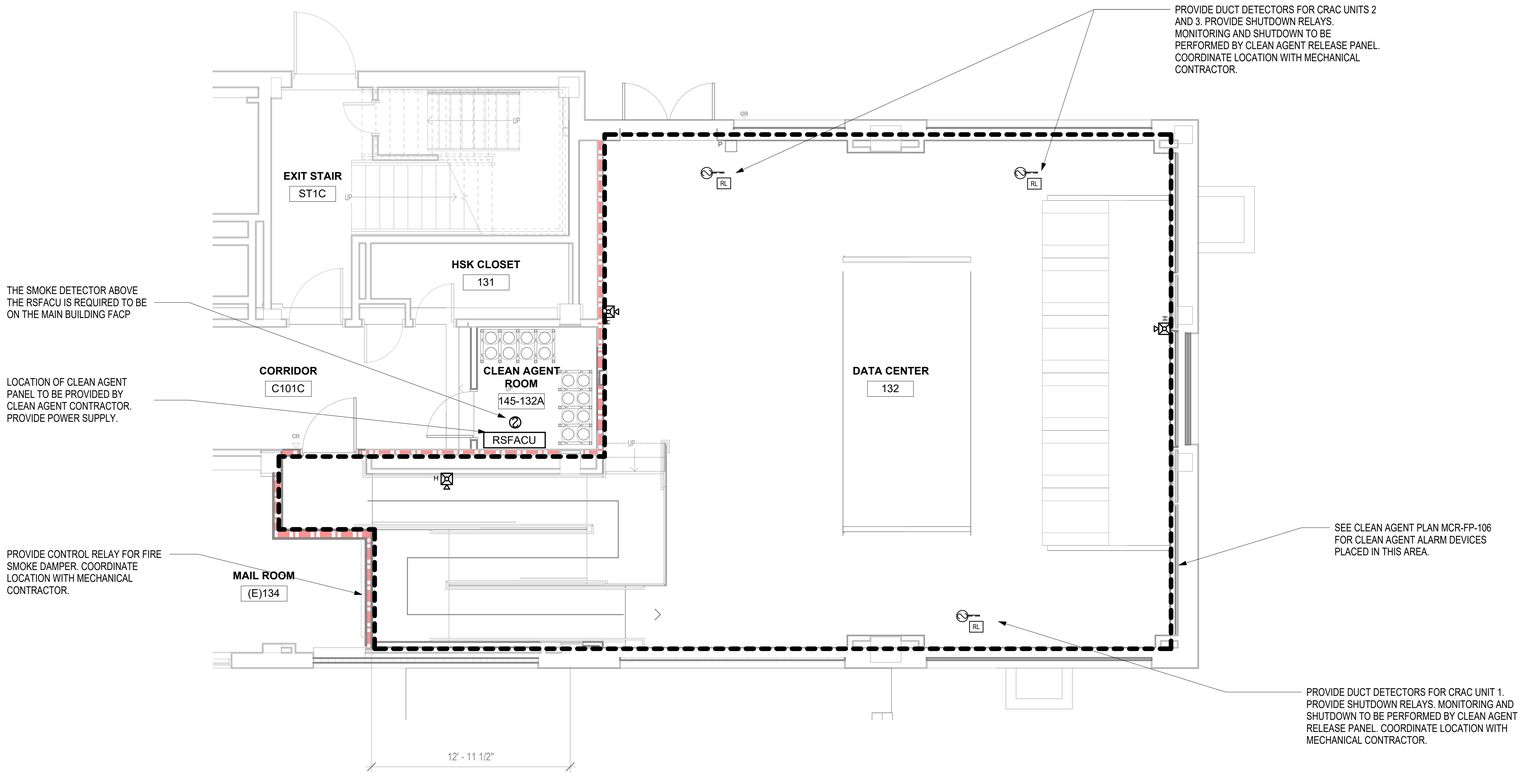
1. PROVIDE ALL REQUIRED APPURTENANCES, PROGRAMMING, J-BOXES, RACEWAY/CONDUIT, CABLING, MOUNTING HARDWARE AS REQUIRED FOR A COMPLETE OPERATION.
2. PROVIDE HANGERS, SUPPORTS, PENETRATIONS, CUTTING, PATCHING, AND SEALING AS REQUIRED.
3. ALL FIRE ALARM DETECTORS ARE TO BE 3-FEET AWAY FROM HVAC DIFFUSERS. COORDINATE LOCATIONS WITH MECHANICAL CONTRACTOR.
4. PROVIDE DUCT SMOKE DETECTOR(S) FOR EACH UNIT GREATER THAN 2,000 CFM. ELECTRICAL CONTRACTOR SHALL PROVIDE DUCT SMOKE DETECTORS, MECHANICAL CONTRACTOR SHALL INSTALL DUCT SMOKE DETECTORS, AND ELECTRICAL CONTRACTOR SHALL PROVIDE ALL RACEWAY/WIRE AND MAKE CONNECTIONS FOR THE COMPLETE OPERATION. COORDINATE LOCATIONS AND REQUIREMENTS WITH MECHANICAL CONTRACTOR AND AHJ.
5. INITIATING DEVICE CIRCUITS(IDC) SHALL BE CLASS B.
6. SIGNAL LINE CIRCUITS(SLC) SHALL BE CLASS B.
7. NOTIFICATION APPLIANCE CIRCUITS(NAC) SHALL BE CLASS B.
8. COMMUNICATIONS BETWEEN BUILDING FIRE ALARM CONTROL PANELS SHALL BE CLASS X.

FIRE ALARM LEGEND

FAA	FIRE ALARM CONTROL PANEL
F	DUCT SMOKE DETECTOR
HD	HEAT DETECTOR
	SMOKE DETECTOR
P	FIRE ALARM MANUAL PULL STATION
H	FIRE ALARM HORN/STROBE
	STROBE ONLY
	DETECTOR, TAMPER SWITCH
	DETECTOR, FLOW SWITCH
RL	CONTROL RELAY

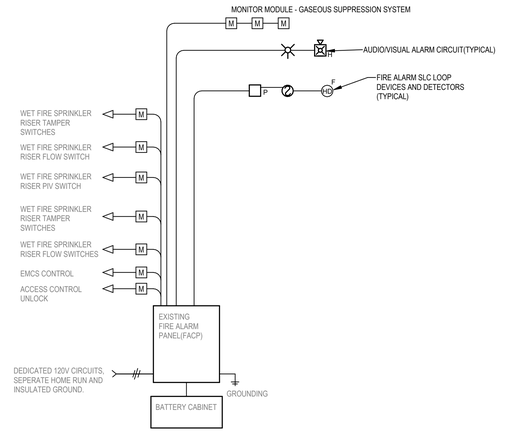
FIRE ALARM - PLAN NOTES

1. PROVIDE NEW CLEAN AGENT RELEASING SERVICE FIRE ALARM CONTROL UNIT (RSFACU) AND POWER SUPPLY. NEW RSFACU TO BE MONITORED BY EXISTING BUILDING FIRE ALARM CONTROL PANEL.
2. THE EXISTING ADDRESSABLE FIRE ALARM SHALL BE EXTENDED AND MODIFIED IN A MANNER TO MAINTAIN ADEQUATE AUDIBILITY THROUGHOUT THE FACILITY. EXTENSION OF THE EXISTING FIRE ALARM SYSTEM IS REQUIRED FOR THE NEW DATA CENTER. ANY AND ALL DEVICE LOCATIONS AND WIRING RUNS SHOWN ON THE DRAWINGS ARE FOR REFERENCE ONLY. ACTUAL LOCATIONS SHALL BE IN ACCORDANCE WITH NFPA 72 AND THIS SPECIFICATION AND COORDINATED BY THE CONTRACTOR PRIOR TO SUBMITTING SHOP DRAWINGS. PROVIDE SHOP DRAWINGS FOR THE NEW DATA CENTER ONLY.



1 FIRE ALARM PLAN - MCR

1/4" = 1'-0"



NOTES:
1. PROVIDE ALL J-BOXES, CONDUIT, WIRING & CONNECTIONS TO ALL DEVICES FOR COMPLETE FIRE ALARM SYSTEM. (NO OPEN WIRING)
2. ALL DEVICES WILL BE MOUNTED IN AN ACCESSIBLE SPACE AND AT THE ELEVATION PER NFPA 72, ADA, AND AHJ CODES.
3. PROVIDE FLUSH MOUNT BACK BOXES FOR ALL DEVICES IN ALL FINISHED SPACE.
4. PROVIDE COMPLETE GROUNDING TO EQUIPMENT PER MANUFACTURERS RECOMMENDATION.
5. SEE FIRE ALARM SPECIFICATION FOR COMPLETE DETAILS.
6. THE MCR DOES NOT REQUIRE A NEW FIRE ALARM PANEL BUT A NEW CLEAN AGENT SYSTEM RELEASE PANEL WHICH WILL BE MONITORED BY THE EXISTING BUILDING FIRE ALARM SYSTEM FOR COMMON ALARM, TROUBLE AND SUPERVISORY SIGNALS. EXISTING BUILDING FACP WILL ALSO MONITOR NEW DUCT SMOKE DETECTORS.
7. PROVIDE SHUT DOWN CONNECTIONS FOR CRAC UNITS.
8. SET ALL VISUAL DEVICES TO PROVIDE THE RIGHT COVERAGE OF CANDELA FOR THE SPACE PER NFPA 72 AND AHJ CODES.
9. SET ALL AUDIO DEVICES TO TEMPORAL AND TO BE 15dB ABOVE AMBIENT SOUND LEVEL OF THE ROOM PER NFPA 72 CODES TABLE.
10. ALL AUDIO AND VISUAL DEVICE WILL BE SYNC PER NFPA 72 CODES.
11. PROVIDE COMPLETE REPROGRAMMING OF SYSTEM TO UPDATE ALL ZONES, ADDRESSES, AND DIALER MONITORING BY POINTS.
12. PROVIDE COMPLETE SHOP PLANS FOR INSTALLATION AND AS-BUILT SET OF THESE PLANS NEXT TO FIRE ALARM PANEL ON COMPLETION.
13. PROVIDE CD-ROM, DVD, OR FINGER DRIVE OF PROGRAM DATA IN FIRE ALARM PANEL AS REQUIRED BY NFPA-72 CODES.
14. PROVIDE PLENUM RATED FIRE CABLE FOR ALL NAC HORN/STROBE CIRCUITS MINIMUM 2814 AND SLC LOOP MINIMUM 2816.
15. PROVIDE NAC BOOSTER POWER SUPPLIES AS REQUIRED FOR THE NOTIFICATION DEVICE COUNTS AND DEMAND LOAD CALCULATIONS FOR A COMPLETE OPERATIONAL SYSTEM.
16. ALL NEW FIRE ALARM WIRING IS TO BE INSTALLED IN STEEL EMT CONDUIT. CONDUIT SHALL BE FACTORY PAINTED COLOR RED.

2 FIRE ALARM ONE LINE DIAGRAM

12" = 1'-0"

Revisions:	Date:

CONSULTANT

FIRE PROTECTION ENGINEERING
GDM
1308 NE 134th St., Suite A
Vancouver, WA 98685
541.436.4723
Conrad Chandler, PE

ARCHITECT/ENGINEER OF RECORD

A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

CONRAD LAWRENCE CHANDLER STATE OF WASHINGTON 21012006 REGISTERED PROFESSIONAL ENGINEER
11-05-2024

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

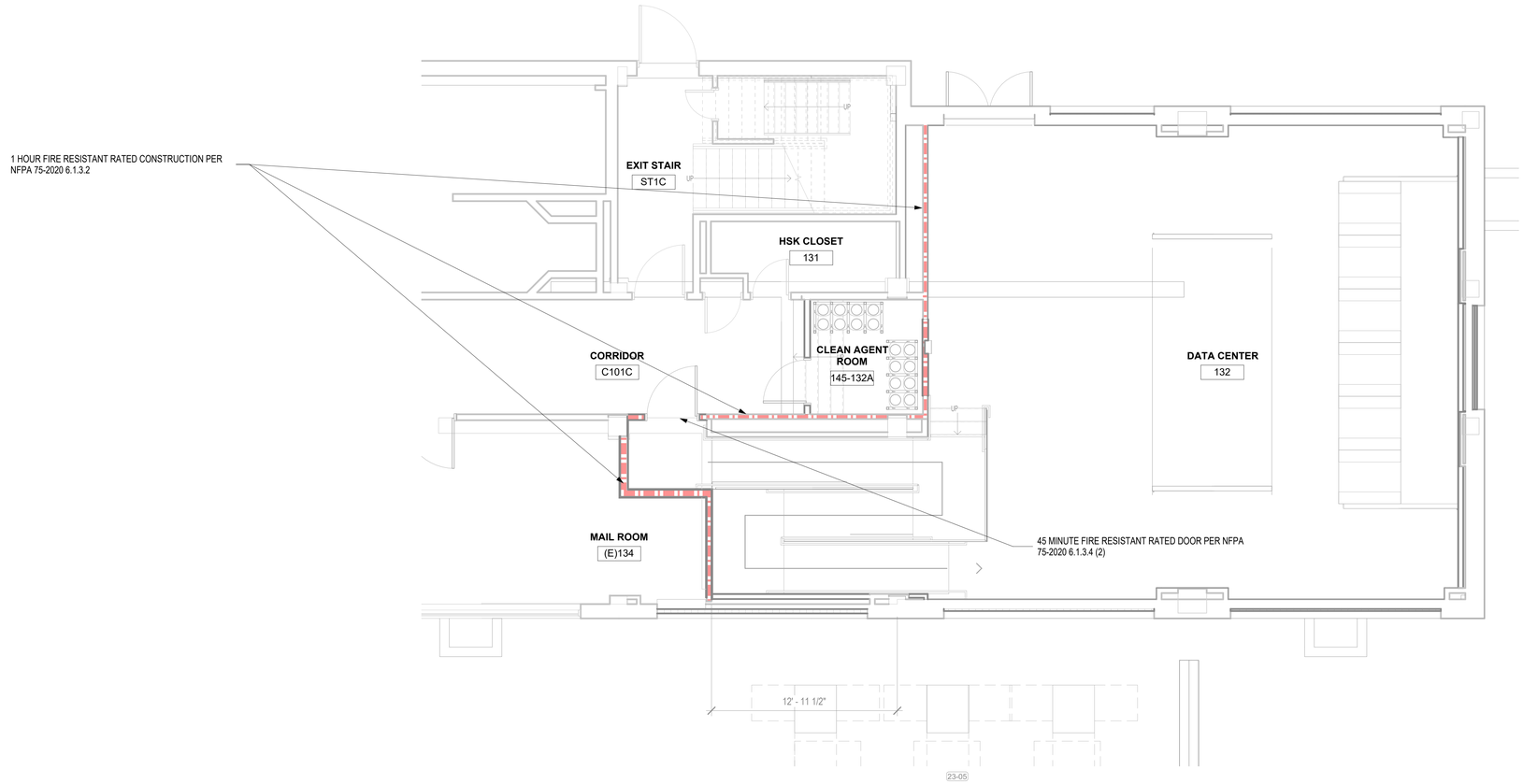
VA U.S. Department of Veterans Affairs

DRAWING TITLE: MCR FIRE ALARM FLOOR PLAN	PHASE: 100% CONSTRUCTION DOCUMENTS	PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES	PROJECT NUMBER: 568-21-701
			BUILDING NUMBER: 145
APPROVED: Project Director: FOR OFFICIAL USE ONLY (FOUO)	FLS: FULLY SPRINKLERED	LOCATION: FORT MEADE, SOUTH DAKOTA	DRAWING NUMBER: MCR-FP-101
		ISSUE DATE: 09/27/2024 / CHECKED BY: GC / DRAWN BY: CC	

VA FORM 08 - 6231

PROPOSED OCCUPANCY CLASSIFICATION

1. THE PROPOSED OCCUPANCY FOR THE NEW MAIN COMPUTER ROOM BUILDING IS BUSINESS OCCUPANCY IN ACCORDANCE WITH NFPA 101-2021 6.1.11.1.



1 FIRE RATED BARRIER PLAN - MCR

1/4" = 1'-0"

Revisions:	Date:

CONSULTANT

FIRE PROTECTION ENGINEERING
GDM
1308 NE 134th St., Suite A
Vancouver, WA 98685
541.436.4723
Conrad Chandler, PE

ARCHITECT/ENGINEER OF RECORD

A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS - ENGINEERS

STAMP

CONRAD LAWRENCE CHANDLER — STATE OF WASHINGTON — 21012006 — REGISTERED PROFESSIONAL ENGINEER
11-05-2024

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: FIRE BARRIER PLAN - MCR
PHASE: 100% CONSTRUCTION DOCUMENTS
PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES
PROJECT NUMBER: 568-21-701
BUILDING NUMBER: 145
APPROVED: Project Director
FLS: FULLY SPRINKLERED
LOCATION: FORT MEADE, SOUTH DAKOTA
ISSUE DATE: 09/27/2024
CHECKED BY: GC
DRAWN BY: CC
DRAWING NUMBER: MCR-FP-102

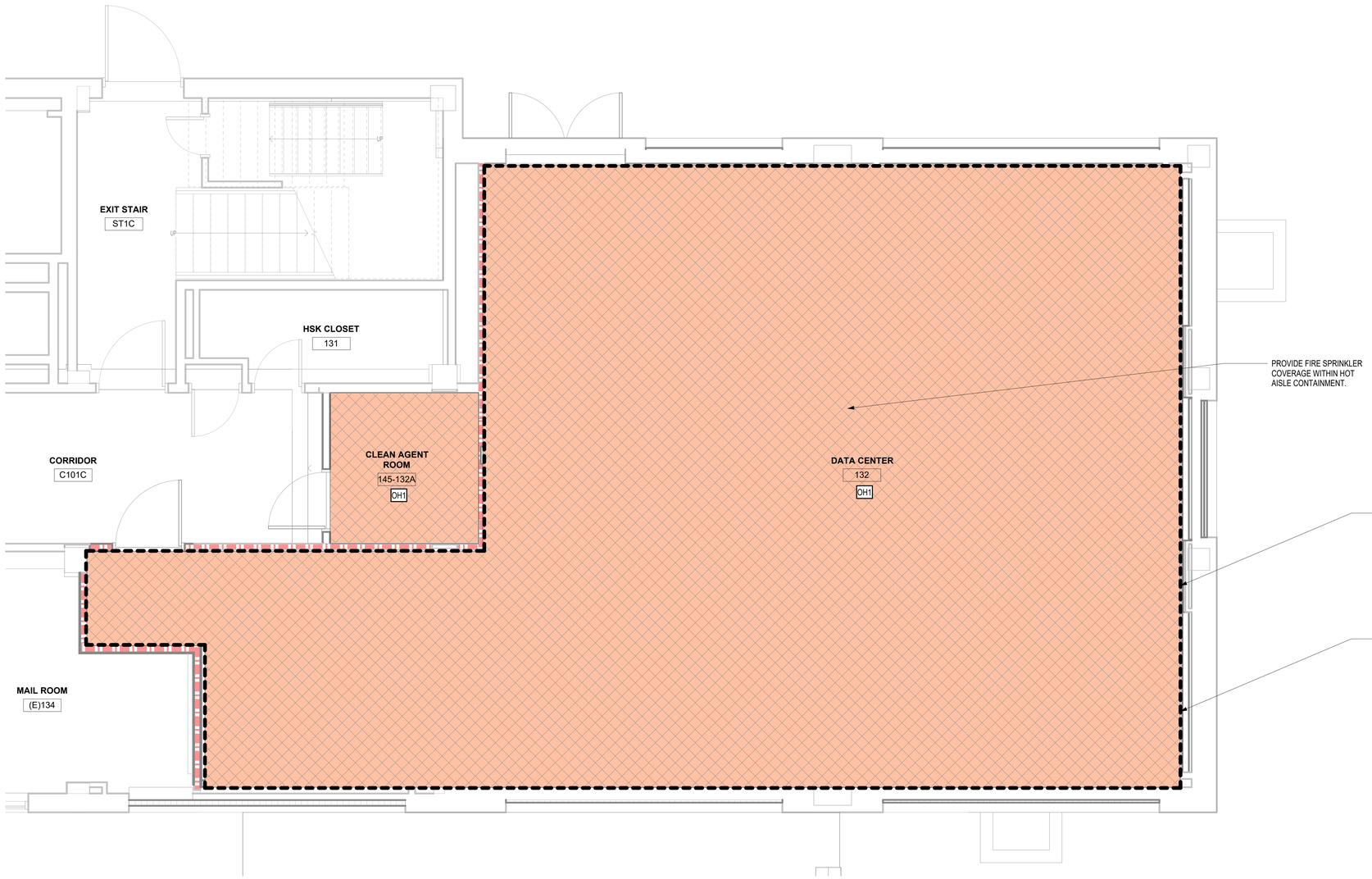
FOR OFFICIAL USE ONLY (FOUO)

VA FORM 08 - 6231

FIRE PROTECTION SPRINKLER SYSTEM DESIGN CRITERIA

MARK	HAZARD CLASSIFICATION	SYSTEM TYPE	DENSITY GPM/SF	REMOTE AREA SQ FT	MAXIMUM AREA PER SPRINKLER SQ FT	HOSE DEMAND GPM	SPRINKLER CHARACTERISTICS				
							TYPE	K-FACTOR	FINISH	CODE REFERENCES	NOTES
	LIGHT HAZARD	WET	0.10	1500	225	100	SEE NOTES	5.6	SEE NOTES	NFPA 13-2022 Table 10.2.4.2.1(a), Table 19.2.3.1.1, Table 19.2.3.1.2,	1,2,3,4,6,7
	ORDINARY HAZARD (GROUP 1)	WET	0.15	1500	130	250	SEE NOTES	5.6	SEE NOTES	NFPA 13-2022 Table 10.2.4.2.1(b), Table 19.2.3.1.1, Table 19.2.3.1.2	1,2,3,4,5,6,7
	ORDINARY HAZARD (GROUP 2)	WET	0.20	1500	130	250	SEE NOTES	5.6	SEE NOTES	NFPA 13-2022 Table 10.2.4.2.1(b), Table 19.2.3.1.1, Table 19.2.3.1.2	1,2,3,4,5

NOTE 1: IN ACCORDANCE WITH THE VA FIRE PROTECTION DESIGN MANUAL, ALL SPRINKLERS ARE REQUIRED TO BE FM APPROVED.
NOTE 2: PROVIDE INTERMEDIATE TEMPERATURE SPRINKLERS IN MECHANICAL, ELECTRICAL, TELECOMMUNICATION SPACES, TELECOMMUNICATION ROOMS, AND HIGHER TEMPERATURES WHERE REQUIRED BY NFPA 13.
NOTE 3: WHERE CEILINGS ARE NOT PROVIDED, USE QUICK RESPONSE BRASS UPRIGHT SPRINKLERS, UNLESS OTHERWISE NOTED. PROVIDE STANDARD RESPONSE, UPRIGHT, BRASS, AND FUSIBLE LINK SPRINKLERS IN TELECOMMUNICATION ROOMS.
NOTE 4: WHERE CEILINGS ARE PRESENT, USE WHITE QUICK-RESPONSE SPRINKLERS, UNLESS OTHERWISE NOTED.
NOTE 5: IN TELECOMMUNICATION SPACES, PROVIDE STANDARD RESPONSE SPRINKLERS.
NOTE 6: PROVIDE LISTED GUARDS FOR SPRINKLERS IN ROOM 132 DATA CENTER, ROOM 137B ENTRANCE ROOM A, AND ALL TELECOMMUNICATION ROOMS.
NOTE 7: PROVIDE FUSIBLE LINK SPRINKLERS IN TELECOMMUNICATION ROOMS, ROOM 132 DATA CENTER, AND ROOM 137B ENTRANCE ROOM.



1 FIRE SPRINKLER HAZARD CLASSIFICATION PLAN - MCR

3/8" = 1'-0"

FIRE SPRINKLER NOTES FOR TELECOMMUNICATION SPACES

1. THE CONTRACTOR IS REQUIRED TO PROVIDE A NEW FIRE SPRINKLER SYSTEM FOR THIS BUILDING.
2. FIRE SPRINKLER SYSTEM SHALL COMPLY WITH THE FOLLOWING:
   A. NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, 2022 EDITION
   B. NFPA 75, STANDARD FOR THE FIRE PROTECTION OF INFORMATION TECHNOLOGY EQUIPMENT, 2020 EDITION
   C. NFPA 101, LIFE SAFETY CODE, 2021 EDITION
   D. VA FIRE PROTECTION DESIGN MANUAL, NINTH EDITION, NOVEMBER 2024
3. TELECOMMUNICATION SPACES (TS) WILL BE PROVIDED WITH WET PIPE SPRINKLER PROTECTION AND CLEAN AGENT GASEOUS SUPPRESSION SYSTEM.
4. NEW CLEAN AGENT SYSTEM MUST BE MODIFIED AS NECESSARY TO PROVIDE COVERAGE WITHIN THE HOT AISLE CONTAINMENT.
5. SPRINKLER HEADS LOCATED INSIDE THE HOT AISLE CONTAINMENT AREA TO BE LOCATED SO THE HOT AISLE CONTAINMENT CURTAINS WILL NOT IMPACT THE SPRINKLER SPACING OF THE SPRINKLER SYSTEM.
6. SPRINKLER SYSTEM TO BE WET PIPE SYSTEM DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 13 OCCUPANCY IS PRIMARILY ORDINARY HAZARD GROUP I.
7. LOCATION AND INSTALLATION OF PIPE SUPPORTS (HANGERS, VERTICAL RESTRAINTS AND GUIDES) MUST MEET THE REQUIREMENTS OF NFPA 13.
8. TELECOMMUNICATION SPACES (TS) WILL BE PROTECTED WITH SPRINKLER HEADS THAT MEET THE FOLLOWING CHARACTERISTICS:
   A. ORDINARY OR INTERMEDIATE TEMPERATURE
   B. STANDARD RESPONSE
   C. FUSIBLE LINK
   D. PROTECTIVE CAGES
   E. FM APPROVED
9. ALL NEW VALVES ON THE RISER AND TRIM PIPING, INCLUDING BUT NOT LIMITED TO SECTIONAL VALVES, INSPECTOR'S TEST VALVE, AND DRAIN VALVES TO BE MARKED WITH PERMANENT TAGS OR SIGNS INDICATING THE VALVES NORMAL OPERATING POSITION AS DETAILED IN THE SPECIFICATIONS.
10. SPRINKLER DESIGN IS PRELIMINARY ONLY. FINAL DESIGN INCLUDING SPRINKLER LAYOUT AND PIPE SIZING TO BE COMPLETED BY INSTALLING CONTRACTOR.
11. SPRINKLERS INSTALLED IN AREAS WITH DROP-IN CEILINGS ARE NOT INTENDED TO BE LOCATED "CENTER-TILE".
12. HYDRAULIC CALCULATIONS TO BE COMPLETED BY INSTALLING CONTRACTOR.
13. A 10% SAFETY FACTOR MUST BE INCLUDED BY CALCULATING THE DEMAND TO A POINT NO GREATER THAN 10% BELOW THE AVAILABLE WATER SUPPLY CURVE OR SUBTRACT 10% FROM THE AVAILABLE WATER SUPPLY CURVE FOR EACH SPRINKLER DEMAND INCLUDING THE REQUIRED HOSE STREAMS.
14. CLEAN AGENT PIPING, STORAGE CYLINDERS, AND CONTROL PANELS TO BE IDENTIFIED WITH SIGNAGE IN ACCORDANCE WITH NFPA 2001.
15. FIRESTOPPING SHALL BE PROVIDED FOR ALL PENETRATIONS OF FIRE-RESISTANT CONSTRUCTION.
16. THE FIRE SPRINKLER SYSTEM PROTECTING THE TELECOMMUNICATIONS SPACE IS TO BE VALVED SEPARATELY FROM OTHER SPRINKLER SYSTEMS, IN AN APPROVED LOCATION THAT IS READILY ACCESSIBLE, AND LABELED, IN ACCORDANCE WITH NFPA 75.
17. A SPRINKLER CABINET IS TO BE PROVIDED WITH THE REQUIRED NUMBER OF SPRINKLER HEADS OF ALL RATINGS AND TYPES INSTALLED, AND A SPRINKLER WRENCH FOR EACH TYPE OF SPRINKLER IN ACCORDANCE WITH NFPA 13. LOCATED ADJACENT TO THE RISER.
18. THIS SPRINKLER SYSTEM IS DESIGNED AS A "WET" SYSTEM AND WILL BE FILLED WITH WATER WHILE IN SERVICE. IT MUST BE MAINTAINED AT OR ABOVE 40°F AT ALL TIMES.
19. INTERRUPTION OF SERVICE: THERE SHALL BE NO INTERRUPTION OF THE EXISTING SPRINKLER PROTECTION, WATER, ELECTRIC, OR FIRE ALARM SERVICES WITHOUT PRIOR PERMISSION OF THE CONTRACTING OFFICER.
20. CONTRACTOR SHALL DEVELOP AN INTERIM FIRE PROTECTION PROGRAM WHERE INTERRUPTIONS INVOLVE OCCUPIED SPACES. REQUEST IN WRITING AT LEAST ONE WEEK PRIOR TO THE PLANNED INTERRUPTION.
21. ALL DRAINS TO BE PIPED TO THE EXTERIOR OF THE BUILDING. BUILDING DRAINS WILL NOT BE USED.
22. FDC PIPING TO BE PROVIDED AUTOMATIC DRAIN VALVE AS REQUIRED BY NFPA 13 FOR AREAS SUBJECT TO FREEZING.
23. WATER FLOW SWITCH REQUIRED TO BE MONITORED BY THE BUILDING FIRE ALARM SYSTEM INSTALLED IN ACCORDANCE WITH NFPA 72.
24. ALL CONTROL VALVES FOR SPRINKLER SYSTEM TO BE MONITORED BY THE BUILDING FIRE ALARM SYSTEM IN ACCORDANCE WITH NFPA 72.
25. ALL SPRINKLER PIPING TO BE PAINTED RED.

Revisions:	Date:

CONSULTANT
FIRE PROTECTION ENGINEERING
GDM
1308 NE 134th St., Suite A
Vancouver, WA 98685
541.436.4723
Conrad Chandler, PE

ARCHITECT/ENGINEER OF RECORD
A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE
GDM ARCHITECTS • ENGINEERS

STAMP
CONRAD LAWRENCE CHANDLER STATE OF WASHINGTON 21012006 REGISTERED PROFESSIONAL ENGINEER
11-05-2024

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT
VA U.S. Department of Veterans Affairs

DRAWING TITLE: FIRE SPRINKLER HAZARD CLASSIFICATION PLAN - MCR
PHASE: 100% CONSTRUCTION DOCUMENTS
PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES
PROJECT NUMBER: 568-21-701
BUILDING NUMBER: 145
APPROVED: Project Director: FOR OFFICIAL USE ONLY (FOUO)
FLS: FULLY SPRINKLERED
LOCATION: FORT MEADE, SOUTH DAKOTA
ISSUE DATE: 09/27/2024
CHECKED BY: GC
DRAWN BY: CC
DRAWING NUMBER: MCR-FP-103

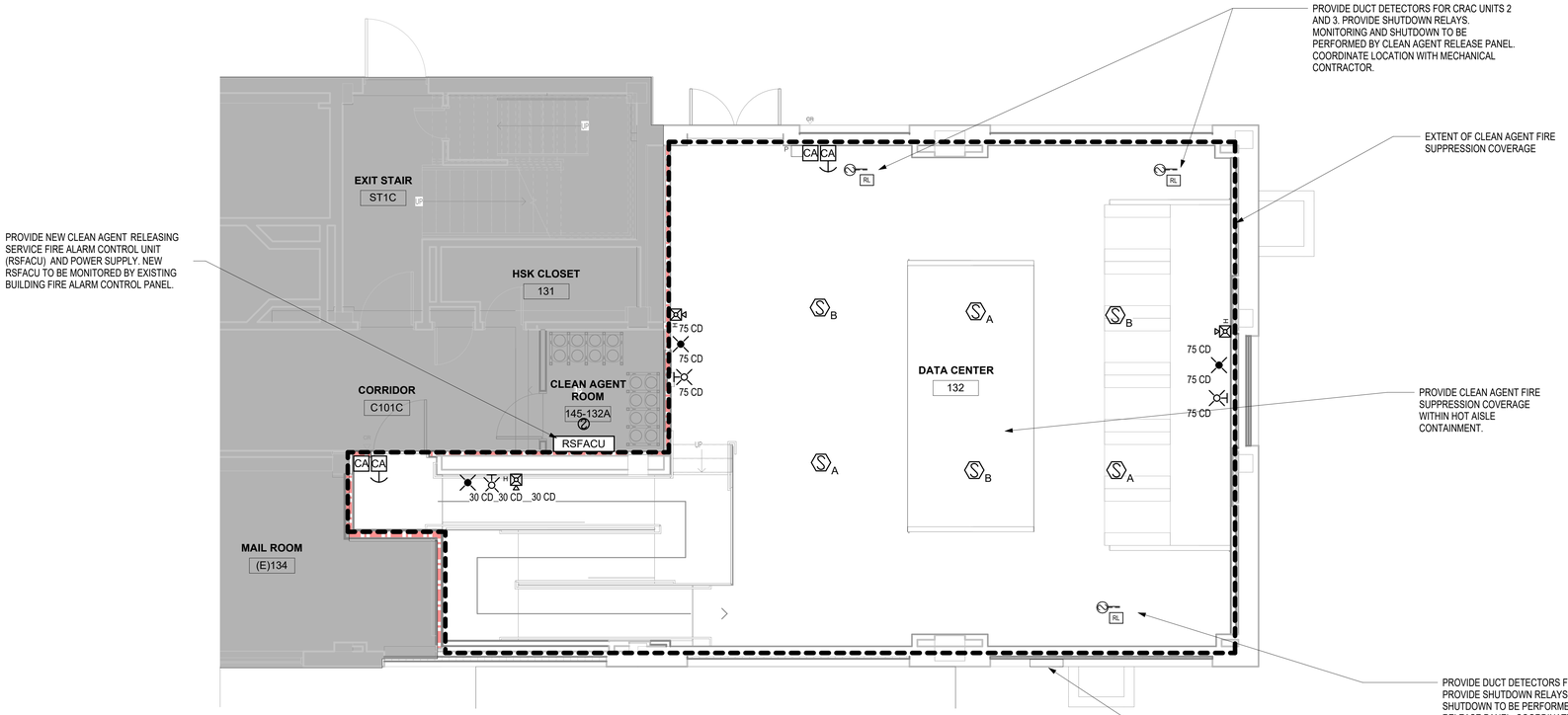
VA FORM 08 - 6231

CLEAN AGENT GENERAL NOTES

1. 1. CLEAN AGENT SUPPRESSSION SYSTEM SHALL COMPLY WITH THE FOLLOWING:
   - NFPA 2001 - 2022
   - NFPA 101 - 2021
   - VA FIRE PROTECTION DESIGN MANUAL, NINTH EDITION, NOVEMBER 2023
2. THE CLEAN AGENT FIRE EXTINGUISHING SYSTEM WILL BE A FIXED TOTAL FLOODING TYPE UTILIZING CLEAN AGENT DESIGNED TO PROVIDE A UNIFORM CONCENTRATION THROUGHOUT THE PROTECTED SPACES.
3. THE CLEAN AGENT FIRE EXTINGUISHING SYSTEM SHALL BE DESIGN FOR A CLASS C FIRE.
4. THE DESIGN CONCENTRATION WITHIN ANY PROTECTED SPACE SHALL NOT EXCEED BY VOLUME THE NO EFFECTS LEVEL (NEL).
5. THE CLEAN AGENT SHALL HAVE A GLOBAL WARMING POTENTIAL (GWP) OF LESS THAN 4000.
6. NUMBER AND LOCATION OF CLEAN AGENT SYSTEM DISCHARGE NOZZLES TO BE DETERMINED BY CLEAN AGENT SYSTEM CONTRACTOR IN LINE WITH CLEAN AGENT MANUFACTURER LIST REQUIREMENTS.
7. CLEAN AGENT PIPING, STORAGE CYLINDERS, AND CONTROL PANELS TO BE IDENTIFIED WITH SIGNAGE IN ACCORDANCE WITH NFPA 2001.
8. ALL STORAGE CONTAINERS SHALL BE MOUNTED PLUMB AND LEVEL AND SECURELY ANCHORED TO BUILDING STRUCTURE.
9. PRIOR TO INSTALLATION OF NOZZLES, THE PIPING SYSTEM SHALL BE PNEUMATICALLY TESTED PER MANUFACTURERS INSTRUCTIONS.
10. SMOKE DETECTORS WITHIN CLEAN AGENT PROTECTED SPACE TO BE CROSS-ZONED.
11. WARNING AND SAFETY INSTRUCTION SIGNS SHALL BE LOCATED OUTSIDE THE ENTRANCE TO THE MCR AND THE ENTRANCE ROOMS AND INSIDE THE MCR AS REQUIRED BY NFPA 2001 SECTION 4.3.8.
12. SYSTEM SHALL UTILIZE THE AMBIENT TEMPERATURES WITHIN THE DATA CENTER AND THE HOT AISLE CONTAINMENT AS OUTLINED IN THE MECHANICAL CFD ANALYSIS WITHIN THE CONSTRUCTION DOCUMENTS.
13. SYSTEM SHALL CONTROL EMERGENCY POWER OFF WITH ADDRESSABLE INTERFACE MODULES TO SHUTDOWN POWER TO ALL ELECTRONIC EQUIPMENT UPON ACTIVATION OF GASEOUS AGENT.

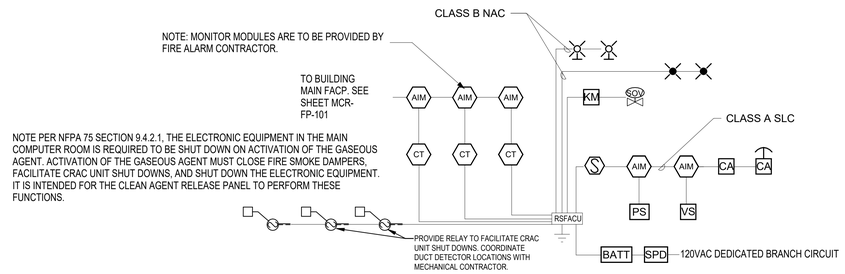
CLEAN AGENT LEGEND

RSFACU	RELEASING SERVICE FIRE ALARM CONTROL UNIT
BATT	SECONDARY POWER SUPPLY (BATTERY)
SPD	SURGE SUPPRESSION DEVICE
ASD	AIR-SAMPLING SMOKE DETECTOR (BY DIVISION 28)
CA	CLEAN AGENT SYSTEM MANUAL PULL STATION
CA	CLEAN AGENT SYSTEM ABORT SWITCH
	SUPERVISED DISCONNECT
PS	PRESSURE SWITCH
SOV	SOLENOID VALVE
REL	RELEASING MODULE
AOM	ADDRESSABLE OUTPUT MODULE
AIM	ADDRESSABLE INPUT MODULE
	GROUND
	CLEAN AGENT SYSTEM DISCHARGE RED STROBE
	CLEAN AGENT ZONE BOUNDARY
	CLEAN AGENT SYSTEM PRE-DISCHARGE AMBER STROBE



1 CLEAN AGENT SUPPRESSION PLAN - MCR

1/4" = 1'-0"



2 CLEAN AGENT RISER DIAGRAM

12" = 1'-0"

SYSTEM INPUTS

1	AREA SMOKE DETECTION -FIRST ZONE	
2	AREA SMOKE DETECTION -SECOND ZONE	
3	COMPLETION OF 30 SECOND COUNTDOWN TIMER AFTER FIRE 2	
4	ABORT SWITCH -CONTINUOUSLY HELD DOWN	
5	MANUAL RELEASING PULL STATION	
6	AFTER 10 SECOND AGENT RELEASE DELAY	
7	MAINTENANCE SWITCH	
8	SOLENOID SUPERVISORY SWITCH	
9	DISCHARGE PRESSURE SWITCH	
10	LOW PRESSURE SWITCH	
11	SCP AC POWER FAILURE	
12	SCP SYSTEM LOW BATTERY	
13	OPEN CIRCUIT OR GROUND FAULT	
14	CLASS B NOTIFICATION CIRCUIT (NAC) -SHORT	
15	LOCAL MANUAL ACTUATOR ON TANK	
16	HVAC SHUTDOWN	

● PERFORM OPERATION/REPORT DEVICE STATUS

SYSTEM OUTPUTS

A	ACTUATE COMMON ALARM SIGNAL INDICATOR
B	ACTUATE AUDIBLE ALARM SIGNAL
C	ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR
D	ACTUATE AUDIBLE SUPERVISORY SIGNAL
E	ACTUATE COMMON TROUBLE SIGNAL INDICATOR
F	ACTUATE AUDIBLE TROUBLE SIGNAL
G	DISPLAY CHANGE OF STATUS
H	TRANSMIT ALARM SIGNAL TO MAIN FACILITY FACP
I	TRANSMIT SUPERVISORY SIGNAL TO MAIN FACILITY FACP
J	TRANSMIT TROUBLE SIGNAL TO MAIN FACILITY FACP
K	ACTUATE SUPPRESSION HORN AT 120 BPM
L	ACTUATE SUPPRESSION HORN AT STEADY TONE
M	ACTUATE PRE-DISCHARGE STROBE
N	ACTUATE SUPPRESSION STROBE
O	BEGIN 30 SECOND COUNTDOWN
P	AGENT RELEASE INTO ALL HAZARD SPACES
Q	BEGIN 10 SECOND AGENT RELEASE DELAY
R	HVAC SHUTDOWN
S	DAMPER CLOSURE
T	ELECTRICAL SHUTDOWN
U	STOPS FIRE 2 30-SECOND COUNTDOWN TIMER

3 CLEAN AGENT INPUT OUTPUT MATRIX

12" = 1'-0"

Revisions:	Date:

CONSULTANT
FIRE PROTECTION ENGINEERING
GDM
1308 NE 134th St., Suite A
Vancouver, WA 98685
541.436.4723
Conrad Chandler, PE

ARCHITECT/ENGINEER OF RECORD
A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP
CONRAD LAWRENCE CHANDLER — STATE OF WASHINGTON — 21012006 — REGISTERED PROFESSIONAL ENGINEER
11-05-2024

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT
VA U.S. Department of Veterans Affairs

DRAWING TITLE	CLEAN AGENT PLAN - MCR
PHASE	100% CONSTRUCTION DOCUMENTS
PROJECT TITLE	EHRM INFRASTRUCTURE UPGRADES
PROJECT NUMBER	568-21-701
BUILDING NUMBER	145
APPROVED: Project Director	FOR OFFICIAL USE ONLY (FOUO)
FLS	FULLY SPRINKLERED
LOCATION	FORT MEADE, SOUTH DAKOTA
ISSUE DATE	09/27/2024
CHECKED BY	GC
DRAWN BY	CC
DRAWING NUMBER	MCR-FP-104

VA FORM 08 - 6231

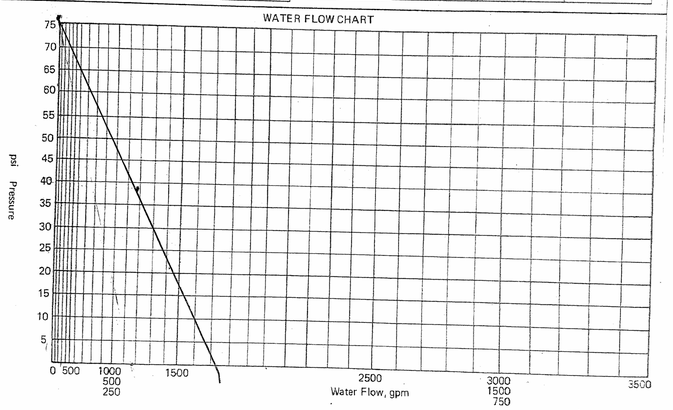
Water Flow Te Summary Sheet

Hydrants Nos.	Outlet Diameter Inches	Pitot Pressures psi	Discharge gpm
47	2.5	10	530
46	2.5	20	750

Location 5 Date 7/15/24

Static psi 78 Residual psi 58

Total Discharge During Test	Available gpm	
	at 20 psi	at 0 psi
1280 gpm	1450	1546



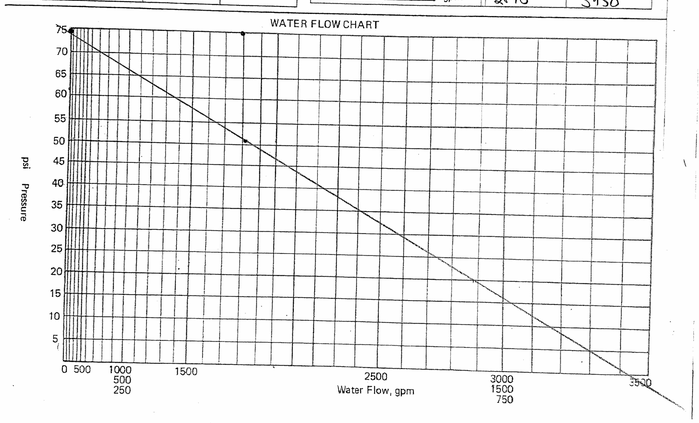
Water Flow Te Summary Sheet

Hydrants Nos.	Outlet Diameter Inches	Pitot Pressures psi	Discharge gpm
25	2½	28	890
32	2½	30	930

Location 6 Date 7/15/24

Static psi 74 Residual psi 52

Total Discharge During Test	Available gpm	
	at 20 psi	at 0 psi
1810 gpm	2890	3430



1 HYDRANT FLOW TEST INFORMATION

NOTE: IT IS THE RESPONSBILITY OF THIS PROJECT'S CONTRACTOR TO PROVIDE A NEW WATER SUPPLY FLOW TEST IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 13 AND NFPA 291, PRIOR TO SUBMITTING FIRE SPRINKLER SHOP DRAWINGS.

Revisions:	Date:

CONSULTANT

FIRE PROTECTION ENGINEERING
GDM
1308 NE 134th St., Suite A
Vancouver, WA 98685
541.436.4723
Conrad Chandler, PE

ARCHITECT/ENGINEER OF RECORD

A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

CONRAD LAWRENCE CHANDLER STATE OF WASHINGTON 21012006 REGISTERED PROFESSIONAL ENGINEER
11-05-2024

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: HYDRANT FLOW TEST INFORMATION
PHASE: 100% CONSTRUCTION DOCUMENTS
PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES
PROJECT NUMBER: 568-21-701
BUILDING NUMBER: 145
APPROVED: Project Director
FLS: FULLY SPRINKLERED
LOCATION: FORT MEADE, SOUTH DAKOTA
ISSUE DATE: 09/27/2024
CHECKED BY: GC
DRAWN BY: CC
DRAWING NUMBER: MCR-FP-105

FOR OFFICIAL USE ONLY (FOUO)

VA FORM 08 - 6231