

# PROJECT NUMBER: 437-21-190

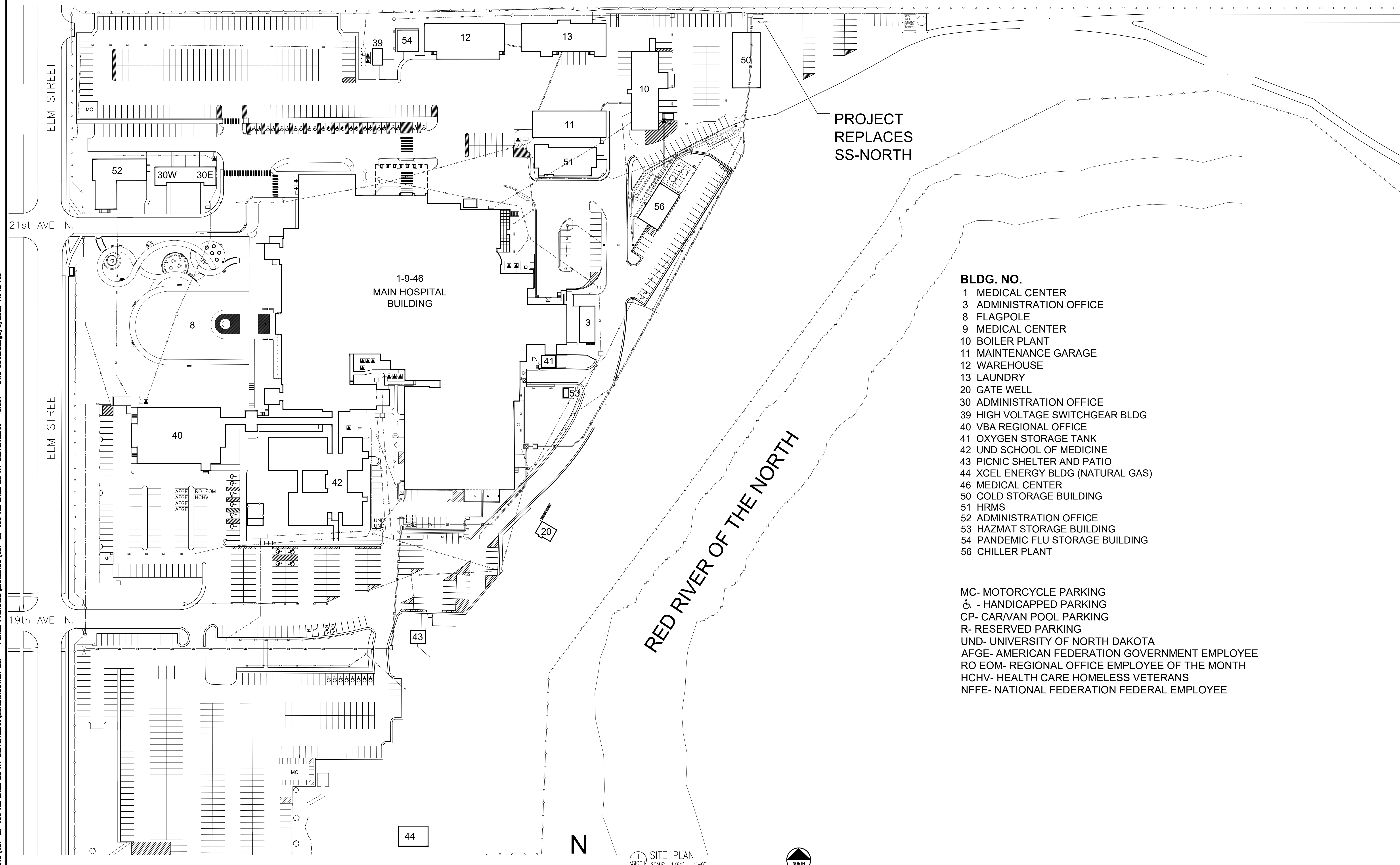
## REPLACE 25 KV SWITCHGEAR

### FARGO VA HEALTH CARE SYSTEM

#### FARGO, NORTH DAKOTA

### GENERAL NOTES & CONDITIONS

- FIELD VERIFY ALL EXISTING CONDITIONS & DIMENSIONS BEFORE PROCEEDING WITH NEW CONSTRUCTION.
- WHERE EXISTING SURFACES ARE DAMAGED BY NEW CONSTRUCTION WORK, REPAIR & REFRESH TO MATCH ORIGINAL SURFACE IN APPEARANCE & QUALITY.
- IF SUSPICIOUS MATERIALS OR UNDOCUMENTED CONDITIONS ARE UNVEILED BY WORK, COORDINATE TO CONTINUE WORK IN ADJACENT AREA AND IMMEDIATELY CONTACT ARCHITECT, ENGINEERS OF RECORD AND VA PROJECT ENGINEER.
- CONTRACTOR SHALL STRICTLY ADHERE TO STATE AND FEDERAL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS.
- ALL OWNER PROPERTY IS TO BE SAFEGUARDED FROM DAMAGE. ANY DAMAGED OWNER PROPERTY IS TO BE RESTORED TO ORIGINAL CONDITION PRIOR TO DAMAGE OR REPLACED COMPLETELY, INCLUDING INSTALLATION, LABOR AND PROCUREMENT EXPENSES.
- ALL DEMOLISHED OR WASTE MATERIAL BECOMES THE PROPERTY AND RESPONSIBILITY OF THE CONTRACTOR WITH THE EXCEPTION OF SPECIFIED ITEMS DESIGNATED EITHER IN THE PLANS OR VERBALLY REQUESTED BY THE VA PROJECT ENGINEER, CHIEF ENGINEER, AND/OR CONTRACTING OFFICER. OFFSITE DISPOSAL OF THE DEMOLISHED ITEMS IS THE RESPONSIBILITY OF THE CONTRACTOR.
- CLEAN UP ALL DEBRIS FROM CONSTRUCTION SITE TO THE SATISFACTION OF THE SUPERINTENDENT AND OWNER OR OWNER'S REPRESENTATIVE. MAINTAIN DAILY CLEANLINESS TO SATISFACTION OF SUPERINTENDENT & OWNER/OWNER'S REPRESENTATIVE.
- CONTRACTORS SHALL PLAN AND COORDINATE WITH ALL OTHER PROJECTS CURRENTLY AWARDED AS WELL AS THOSE IN DESIGN WHICH ARE EXPECTED TO BE AWARDED THIS YEAR. VERIFY AND COORDINATE WITH FARGO VA HEALTH CARE SYSTEM ENGINEERING SERVICE STAFF.
- CONTRACTORS SHALL COORDINATE AS REQUIRED WITH ALL OTHER CONSTRUCTION ACTIVITIES AND CONTRACTORS ON CAMPUS AS WELL AS MODIFY LAYOUTS AS REQUIRED.
- For Phasing notes, see Specification 01 00 00 General Requirements, paragraph 1.6.1 for additional information.



- BLDG. NO.**
- 1 MEDICAL CENTER
  - 3 ADMINISTRATION OFFICE
  - 8 FLAGPOLE
  - 9 MEDICAL CENTER
  - 10 BOILER PLANT
  - 11 MAINTENANCE GARAGE
  - 12 WAREHOUSE
  - 13 LAUNDRY
  - 20 GATE WELL
  - 30 ADMINISTRATION OFFICE
  - 39 HIGH VOLTAGE SWITCHGEAR BLDG
  - 40 VBA REGIONAL OFFICE
  - 41 OXYGEN STORAGE TANK
  - 42 UND SCHOOL OF MEDICINE
  - 43 PICNIC SHELTER AND PATIO
  - 44 XCEL ENERGY BLDG (NATURAL GAS)
  - 46 MEDICAL CENTER
  - 50 COLD STORAGE BUILDING
  - 51 HRMS
  - 52 ADMINISTRATION OFFICE
  - 53 HAZMAT STORAGE BUILDING
  - 54 PANDEMIC FLU STORAGE BUILDING
  - 56 CHILLER PLANT

- MC- MOTORCYCLE PARKING
- ♿ - HANDICAPPED PARKING
- CP- CAR/VAN POOL PARKING
- R- RESERVED PARKING
- UND- UNIVERSITY OF NORTH DAKOTA
- AFGE- AMERICAN FEDERATION GOVERNMENT EMPLOYEE
- RO EOM- REGIONAL OFFICE EMPLOYEE OF THE MONTH
- HCHV- HEALTH CARE HOMELESS VETERANS
- NFFE- NATIONAL FEDERATION FEDERAL EMPLOYEE

SITE PLAN  
SCALE: 1/64" = 1'-0"

S:\Engineering\CONSTRUCTION\PROJECTS\437-21-190 REPLACE 25 KV SWITCHGEAR\CONSTRUCTION SOP - FORCE PACKAGE\DRAWINGS\437-21-190 REPLACE 25 KV SWITCHGEAR - 0001 - DWG COVER.dwg/9/2021 11:42 AM



Dept. of Veterans Affairs  
Medical Center  
2101 Elm Street  
Fargo, ND 58102

Revisions	Date

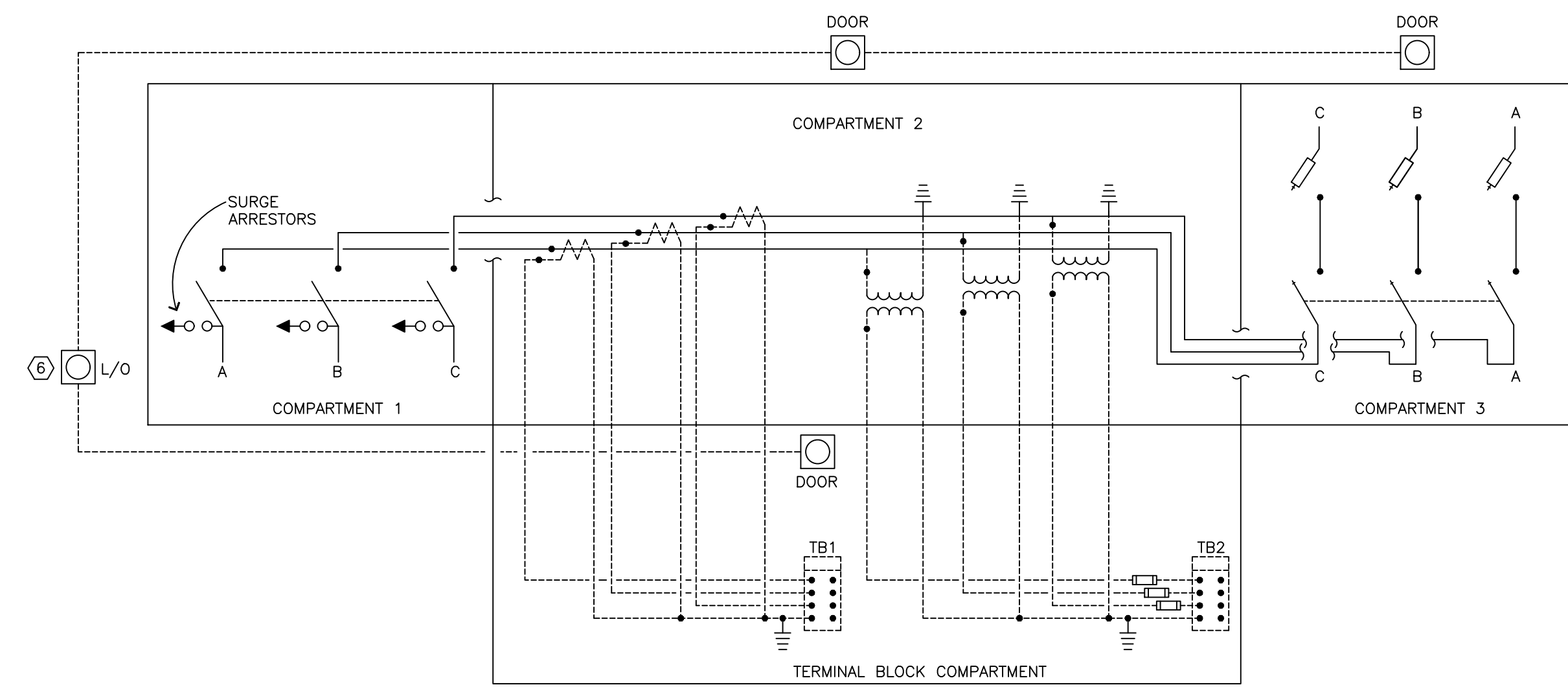
Drawing Title COVER SHEET/ SITE PLAN		Project Title REPLACE 25 KV SWITCHGEAR			Date 9/9/2021
VA Project No. 437-21-190		Contract No.	Designed By DTL	Checked By DTL	Drawn By DTL
Building No. N/A	AutoCAD File Name 437-21-190 REPLACE 25 KV SWITCHGEAR G1001 - DWG COVER.DWG	Location FARGO VA HEALTH CARE SYSTEM FARGO, NORTH DAKOTA			Drawing No. G1001
Dwg. 1 of 2					

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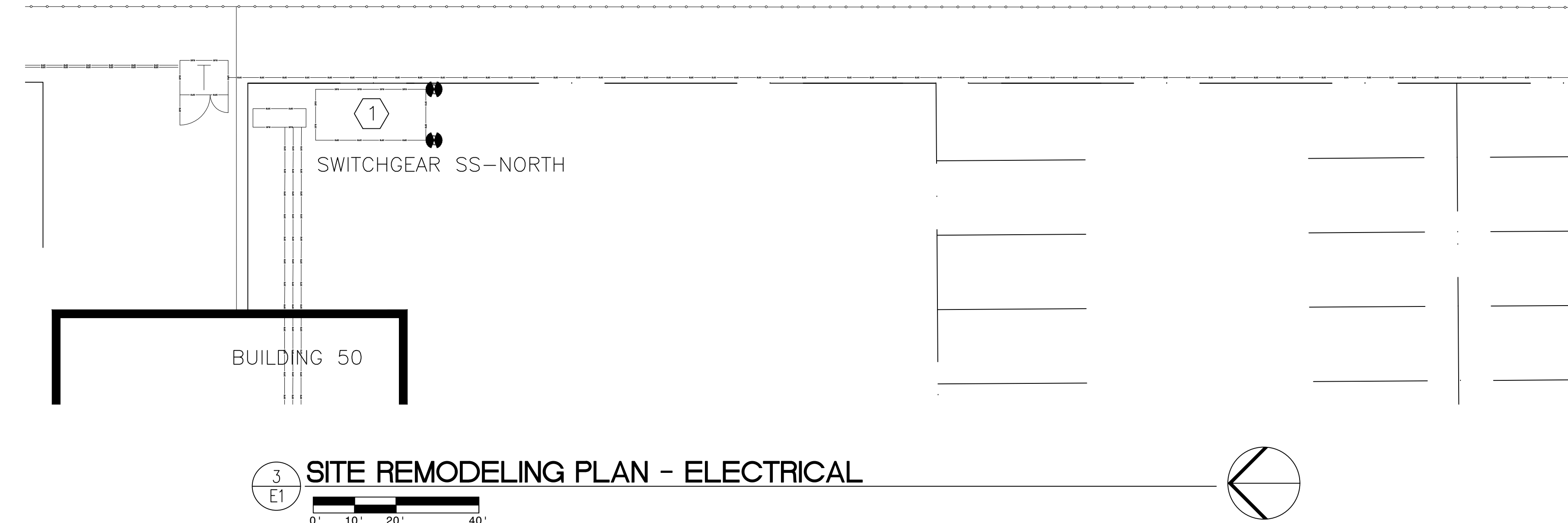
**DETAIL 3/E1 PLAN NOTES:**

① FOR EXISTING SS-NORTH SWITCH, CONTRACTOR TO DISCONNECT EXISTING SWITCH SS-NORTH. COORDINATE DISCONNECTION WITH XCEL ENERGY. REMOVE THE SWITCH AND DISPOSE OF. SALVAGE EXISTING METERING EQUIPMENT UNLESS XCEL ENERGY INDICATES THEY WILL PROVIDE NEW METER FOR FACTORY TO INSTALL. INSTALL REFURBISHED SS-NORTH TO REPLACE THE EXISTING. REFURBISHED SWITCH TO HAVE SAME DIMENSIONS AS THE EXISTING. RE-TERMINATE EXISTING 25KV CONDUCTORS AND METERING CONDUCTORS TO REFURBISHED SWITCH. COORDINATE WITH XCEL ENERGY FOR RE-TERMINATION OF LINE SIDE CONDUCTORS.

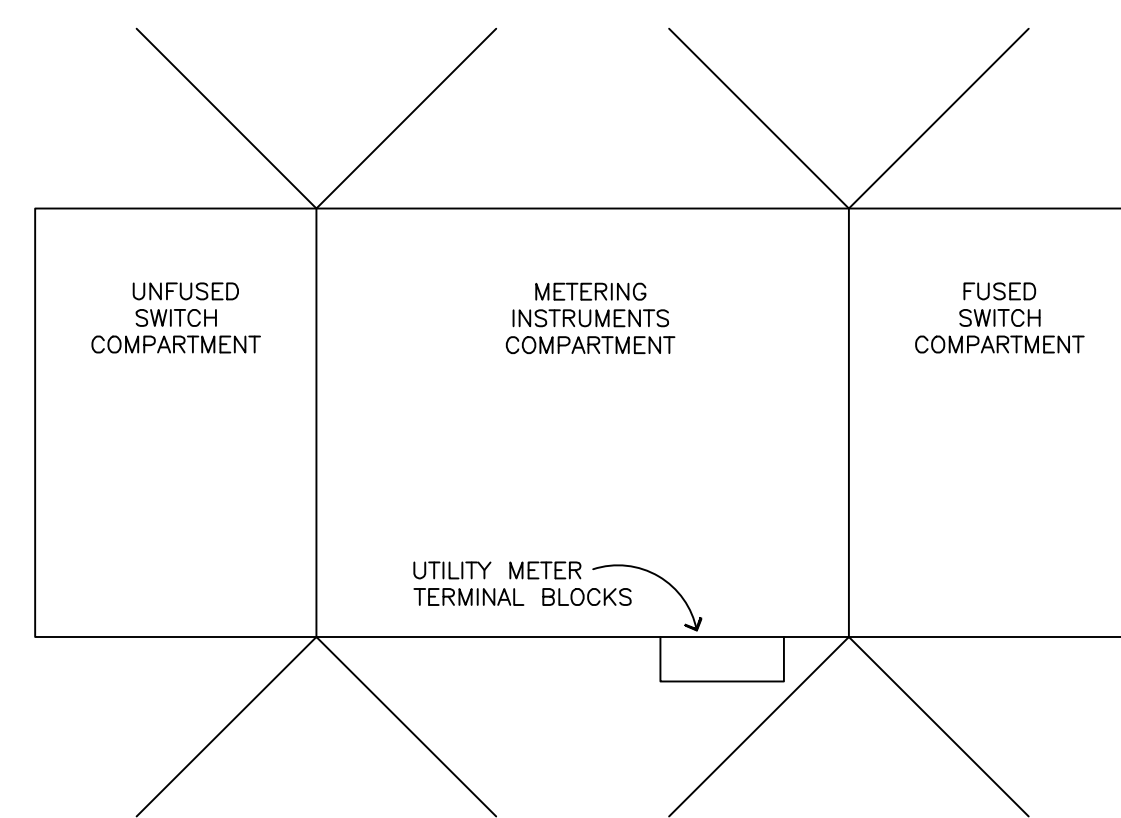
ONCE THE NEW SS-NORTH ARRIVES, SCHEDULE REMOVAL OF THE REFURBISH SWITCH AND INSTALLATION OF THE NEW SWITCH WITH THE VA COR. THE SAME NOTES AND INSTRUCTIONS ABOVE FOR THE ORIGINAL REMOVAL AND INSTALLATION SHALL APPLY. CONTRACTOR SHALL COORDINATE WITH XCEL ENERGY REGARDING METERS (IF THEY WILL PROVIDE NEW OR WANT TO HAVE THEM REMOVED FROM THE REFURBISHED SWITCH) THAT SHALL BE SENT TO THE FACTORY FOR INSTALLATION IN THE NEW SWITCH.



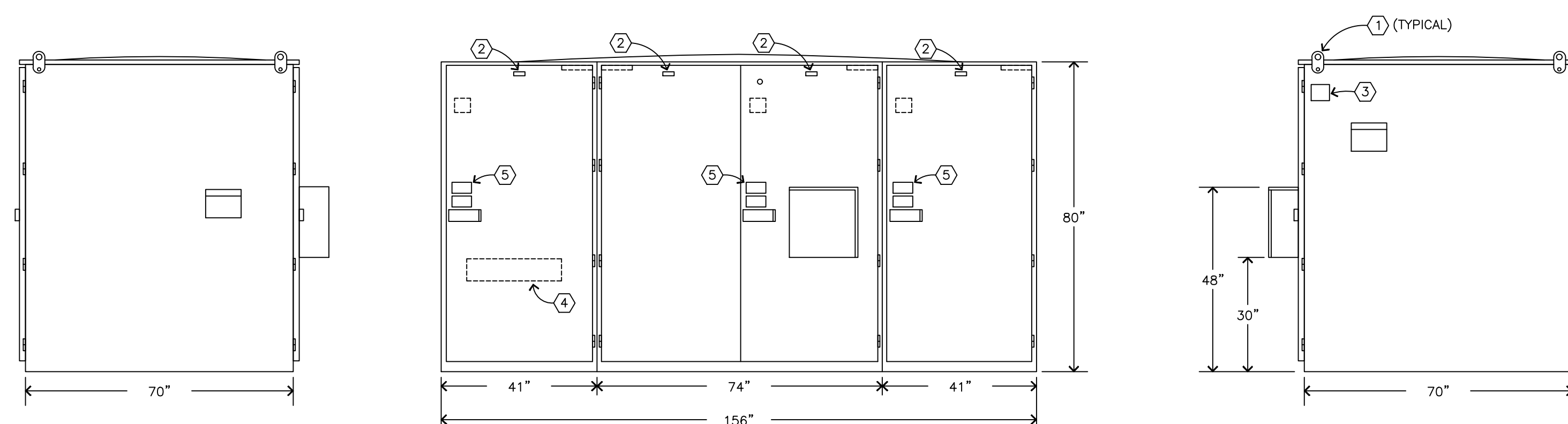
**NEW SS-NORTH CIRCUIT DIAGRAM**  
NO SCALE



**3 E1 SITE REMODELING PLAN - ELECTRICAL**



**NEW SS-NORTH ENCLOSURE TOP VIEW**  
NO SCALE



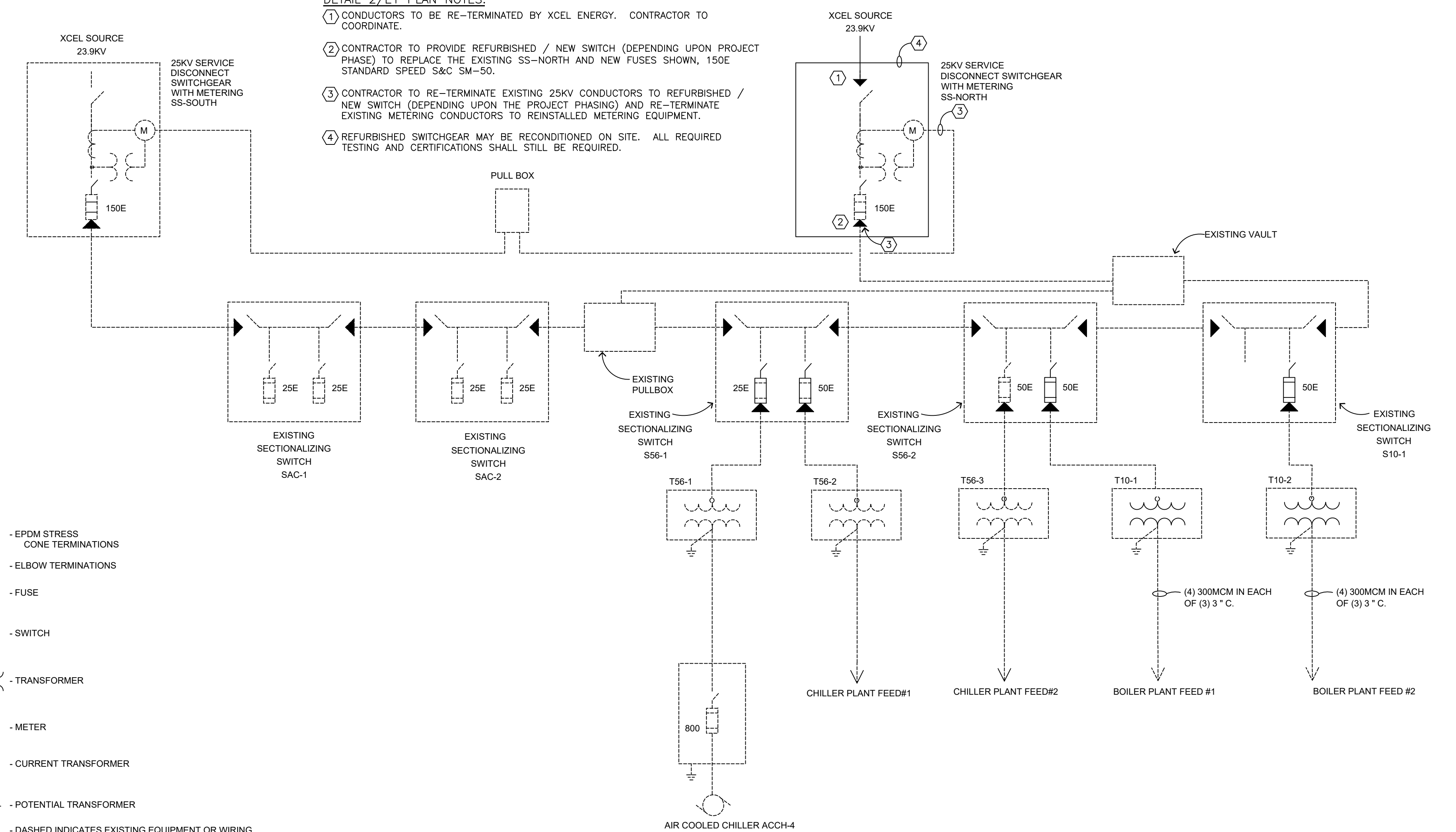
**NEW SS-NORTH FRONT VIEW**  
NO SCALE

**DETAIL 1/E1 PLAN NOTES:**

- ① REMOVABLE LIFTING PLATES WITH BLIND MOUNTING HOLES.
- ② COMPARTMENT LABELS INDICATING FUSE, ELBOW OR SWITCH COMPARTMENT LOCATED ON DOORS.
- ③ MANUFACTURER'S DATA PLATE, CONTAINS INFORMATION LISTED UNDER SYSTEM RATING, NON-CORROSIVE, PERMANENTLY STAMPED AND ATTACHED TO ENCLOSURE.
- ④ DOOR MOUNTED FUSE (5M-20 UNITS) STORAGE PROVISIONS.
- ⑤ SIGNS AND/OR LABELS:
  - "CAUTION, KEEP OUT, HIGH VOLTAGE", LOCATED ABOVE LATCHING DEVICE
  - "WARNING, SECURE DOORS", LOCATED ABOVE LATCHING DEVICE
  - NEMA "MR, OUCH, DANGER", ON INTERIOR DOORS
  - "WARNING, INSTALLATION AND OPERATION", LOCATED ON INTERIOR DOORS
  - "DANGER, FUSE OR SWITCH MAY BE LIVE IN OPEN POSITION", LOCATED ON COMPARTMENT BARRIERS
  - "DANGER, QUALIFIED PERSONS ONLY", LOCATED ON COMPARTMENT BARRIERS
  - STANDARD TORQUE LABEL, LOCATED ON INSIDE DOORS
- ⑥ COMPARTMENT DOORS TO BE INTERLOCKED WITH MAIN SWITCH OPERATOR SO LINE SIDE SWITCH TO BE IN THE OPEN POSITION FOR THE DOORS TO BE OPENED.

**DETAIL 2/E1 PLAN NOTES:**

- ① CONDUCTORS TO BE RE-TERMINATED BY XCEL ENERGY. CONTRACTOR TO COORDINATE.
- ② CONTRACTOR TO PROVIDE REFURBISHED / NEW SWITCH (DEPENDING UPON PROJECT PHASE) TO REPLACE THE EXISTING SS-NORTH AND NEW FUSES SHOWN, 150E STANDARD SPEED S&C SM-50.
- ③ CONTRACTOR TO RE-TERMINATE EXISTING 25KV CONDUCTORS TO REFURBISHED / NEW SWITCH (DEPENDING UPON THE PROJECT PHASING) AND RE-TERMINATE EXISTING METERING CONDUCTORS TO REINSTALLED METERING EQUIPMENT.
- ④ REFURBISHED SWITCHGEAR MAY BE RECONDITIONED ON SITE. ALL REQUIRED TESTING AND CERTIFICATIONS SHALL STILL BE REQUIRED.



**2 E1 25 KV ONE LINE DIAGRAM**  
NO SCALE

NOTE: CONTRACTOR SHALL VERIFY AND ENSURE REFURBISHED / NEW SWITCHGEAR DIMENSIONS MATCH THE EXISTING SWITCHGEAR DIMENSIONS SO SWITCHGEAR FITS ON EXISTING VAULT / PAD. THERE SHALL NOT BE A MODIFICATION OR ADJUSTMENT IN PRICE FOR CONCRETE VAULT / PAD REPLACEMENT OR MODIFICATIONS DUE TO DIMENSIONAL ISSUES OR ERRORS.

**1 E1 NEW SWITCH SS-NORTH DETAILS**  
NO SCALE

**Dept. of Veterans Affairs  
Medical Center  
2101 Elm Street  
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<b>Drawing Title</b> ELECTRICAL PLANS AND DETAILS		<b>Project Title</b> REPLACE 25 KV SWITCHGEAR		<b>Date</b> 9/9/2021
<b>VA Project No.</b> 437-21-190		<b>Contract No.</b>	<b>Designed By</b> DTL	<b>Checked By</b> DTL
<b>Building No.</b>	<b>AutoCAD File Name</b>	<b>Location</b> FARGO VA HEALTH CARE SYSTEM FARGO, NORTH DAKOTA	<b>Drawn By</b> DTL	<b>Drawing No.</b> E1
				<b>Dwg. 1 of 1</b>

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