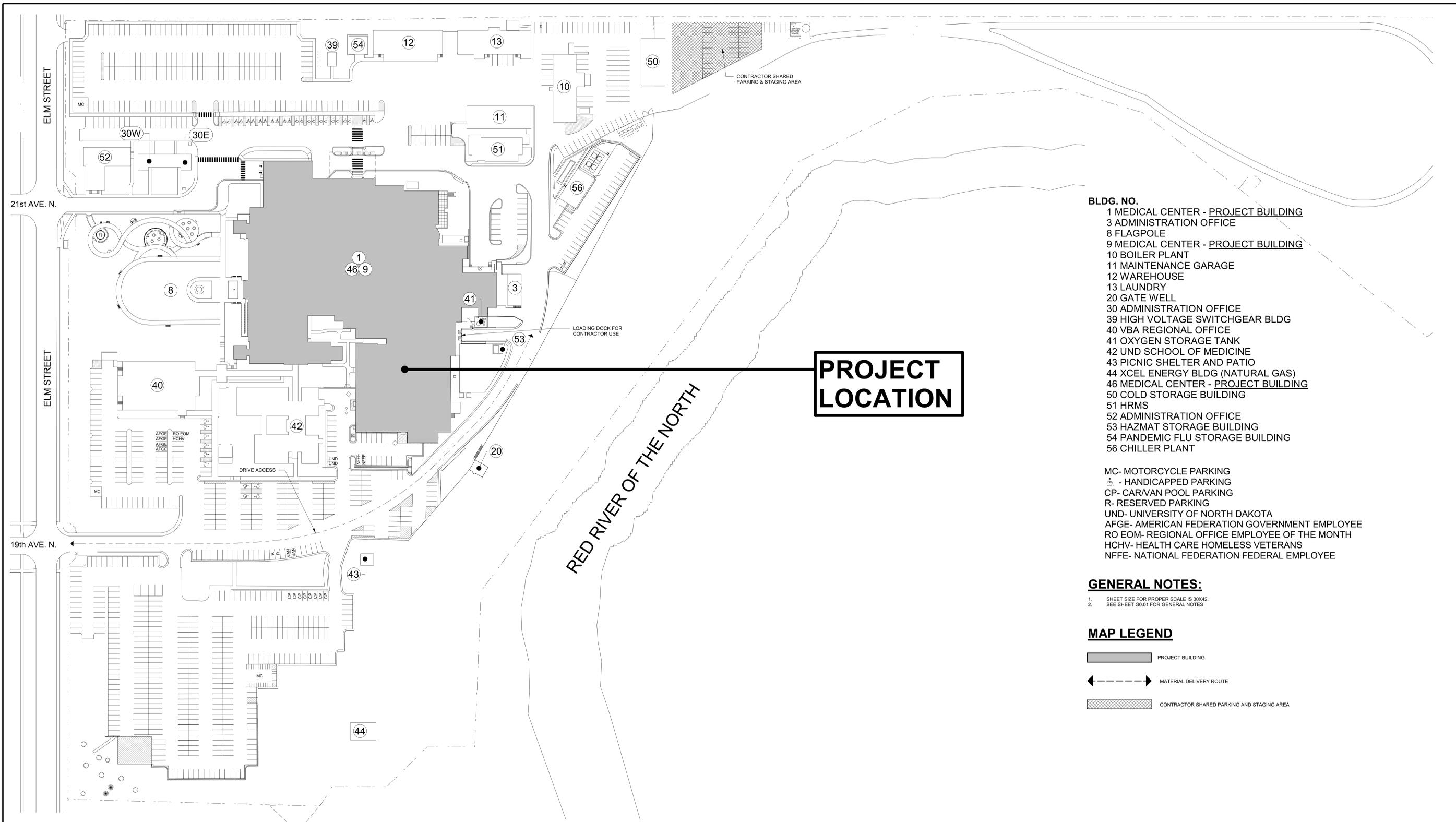






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 one eighth inch = one foot  
 one quarter inch = one foot  
 three eighths inch = one foot  
 one half inch = one foot  
 three quarters inch = one foot  
 one inch = one foot  
 one and one half inches = one foot  
 one and one half inches = one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



- BLDG. NO.**
- 1 MEDICAL CENTER - PROJECT BUILDING
  - 3 ADMINISTRATION OFFICE
  - 8 FLAGPOLE
  - 9 MEDICAL CENTER - PROJECT BUILDING
  - 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 - PROJECT BUILDING
  - 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

- GENERAL NOTES:**
1. SHEET SIZE FOR PROPER SCALE IS 30X42.
  2. SEE SHEET G0.01 FOR GENERAL NOTES

**MAP LEGEND**

- PROJECT BUILDING.
- MATERIAL DELIVERY ROUTE
- CONTRACTOR SHARED PARKING AND STAGING AREA

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

Revisions:	Date

**CONSULTANTS:**

SUMMIT FIRE CONSULTING  
 575 MINNEHAHA AVE WEST  
 ST. PAUL, MINNESOTA 55103  
 (612) 387-7050



**ARCHITECT/ENGINEERS**

FOURFRONT DESIGN, INC.  
 517 7TH STREET  
 RAPID CITY, SOUTH DAKOTA 57701  
 PH: (605) 342-9470  
 FAX: (605) 342-2377  
 WWW.FOURFRONTDESIGN.COM

Drawing Title  
**LOCATION MAP / CONTRACTOR STAGING AREA AND ACCESS**

Approved: Project Director  
**FARGO VAMC**

Project Title  
**REFURBISH ELEVATORS AND REPLACE CONTROLS**

Location **2101 ELM STREET  
 FARGO, ND 58102**

Date **12.20.22**

Checked **JS**

Drawn **JE**

Project Number  
 437-22-101

Building Number  
**1,9,46**

Drawing Number  
**G0.02**

Dwg. 3 of 41

Office of Construction and Facilities Management

Department of Veterans Affairs

GENERAL NOTES:

1. THESE DRAWINGS ARE DIAGRAMMATIC AND FOR GENERAL IDENTIFICATION OF ASBESTOS-CONTAINING MATERIALS (ACM) SUBJECT TO REMOVAL OR DISTURBANCE. THEIR ACCURACY IS NOT GUARANTEED. LOCATIONS AND QUANTITIES SHOWN OF ACM TO BE REMOVED ARE REPRESENTATIVE BASED ON RECENT AND PREEXISTING SITE SURVEY INFORMATION. THE ABATEMENT CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL MATERIAL LOCATIONS AND REMOVAL QUANTITIES, AND EXISTING SITE CONDITIONS.
2. ASBESTOS REMOVAL IS BEING PERFORMED PURSUANT TO RENOVATION OF THE PROJECT AREAS. REMOVE AND DISPOSE OF ALL ACM IN ACCORDANCE WITH APPLICABLE REGULATIONS, PROJECT SPECIFICATIONS, AND THE APPROVED ASBESTOS HAZARD ABATEMENT PLAN (AHAP). IF SUSPECT ACMs ARE ENCOUNTERED DURING CONSTRUCTION AND DEMOLITION THAT ARE NOT IDENTIFIED ON THE ASBESTOS ABATEMENT DRAWINGS, STOP WORK AND CONTACT THE PROJECT MANAGER AND VPIH.
3. ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS; PROJECT SPECIFICATIONS, THE APPROVED WORK PLAN, AND ACCEPTED INDUSTRY PRACTICE. WHEN REQUIREMENTS OVERLAP OR CONFLICT, THE MOST STRINGENT REQUIREMENT SHALL APPLY. ALL WORK SHALL BE SUBJECT TO INSPECTION BY THE OWNER, THE OWNER'S CONSULTANTS, AND REGULATORY PERSONNEL.
4. DEMOLITION OF NON-ACM BUILDING MATERIALS MAY BE REQUIRED TO ACCESS REGULATED MATERIALS, INCLUDING, BUT NOT LIMITED TO, CABINETS, RAISED FLOORING, GYPSUM WALLBOARD, EXPANDED METAL OR WOOD LATH AND PLASTER WALLS AND CEILINGS, WALL FRAMING, CARPET, CERAMIC AND VINYL FLOOR COVERINGS, WOOD, ETC. THE ABATEMENT CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION OF NON-ACM MATERIALS AS NEEDED TO ACCESS REGULATED MATERIALS FOR ABATEMENT, AND FOR COORDINATING THE LIMITS OF DEMOLITION AND ABATEMENT WITH THE GENERAL CONTRACTOR.
5. ALL COSTS ASSOCIATED WITH EXPLORATORY DEMOLITION AND DEMOLITION OF NON-ACM MATERIALS NEEDED TO ACCOMPLISH ABATEMENT SHALL BE INCLUDED IN THE ABATEMENT CONTRACTOR'S LUMP SUM PRICE FOR THE PROJECT. NO ADDITIONAL COMPENSATION SHALL BE CONSIDERED FOR THIS WORK.

ASBESTOS NOTES:

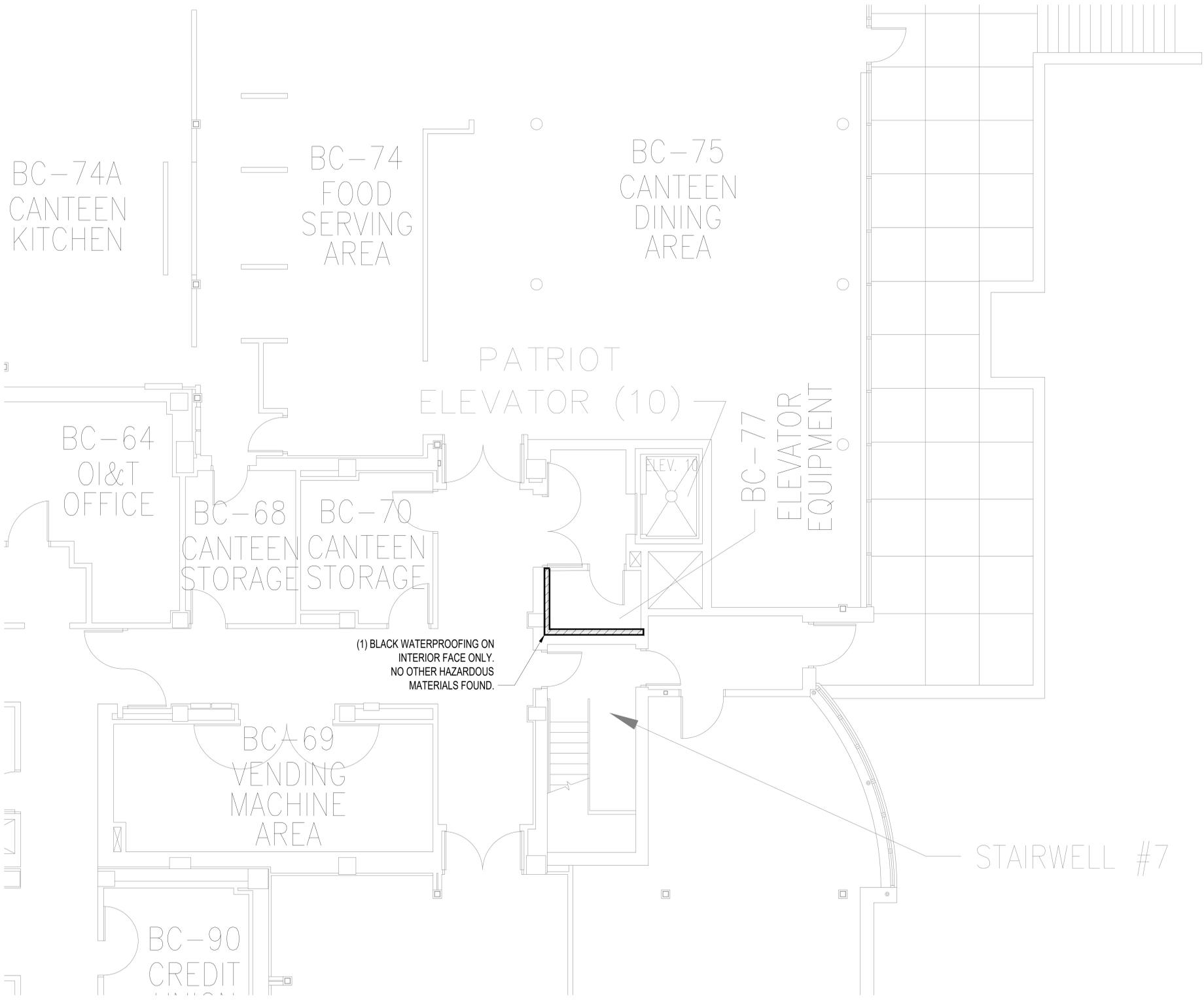
1. THE PROJECT AREA WAS RECENTLY SURVEYED FOR ACM. REFER TO THE HAZARDOUS BUILDING MATERIALS INSPECTION REPORT BY AMI ENVIRONMENTAL, DATED AUGUST 26, 2022 FOR MORE INFORMATION ABOUT ACMs IDENTIFIED IN THE PROJECT AREA.
2. CONCEALED ACM PIPE INSULATION (TSI) MAY EXIST WITHIN WALLS, PIPE CHASES AND ABOVE RIGID CEILINGS. COORDINATE ACCESS WITH DEMOLITION DRAWINGS AND THE GENERAL CONTRACTOR. SOME EXPLORATORY DEMOLITION MAY BE REQUIRED TO DETERMINE IF CONCEALED ACM IS PRESENT.
3. IF SUSPECT ACM IS DISCOVERED IN CONSTRUCTION, STOP WORK AND CONTACT GENERAL CONTRACTOR, VA REPRESENTATIVES AND VPIH.
4. GASKETS AND PACKINGS ARE CONCEALED IN VALVES, EQUIPMENT, STEAM TRAPS, BOILERS AND FLUES AND ARE INACCESSIBLE FOR SAMPLING. GASKETS AND PACKINGS ARE ASSUMED AS ACM UNLESS SAMPLED, ANALYZED, AND DETERMINED TO BE NON-ASBESTOS.
5. ESTABLISH REGULATED AREAS (RA) AND NEGATIVE PRESSURE ENCLOSURES (NPE) AND PERFORM REMOVAL IN ACCORDANCE WITH APPLICABLE SPECIFICATION SECTIONS: TRADITIONAL ASBESTOS ABATEMENT; SEC 02 82 13-19.
6. FINALIZE LIMITS OF REGULATED AREAS, LOCATIONS OF NEGATIVE AIR MACHINES (NAM), PERSONAL DECONTAMINATION FACILITIES (PDF), AND WASTE DECONTAMINATION FACILITIES (WDF) BASED ON SITE CONDITIONS, BEST PRACTICES AND PHASING REQUIREMENTS.
7. ASSUME 50% EFFICIENCY WHEN CALCULATING NAM REQUIREMENTS FOR ACHIEVING FOUR (4) AIR CHANGES PER HOUR AND PROVIDED GREATER THAN 4.02" WCG PRESSURE. CONFIGURE AND PLACE NAMS AS NEEDED TO MAXIMIZE AIR MOVEMENT AND PREVENT DEAD AIR SPACE. COORDINATE NEGATIVE AIR DISCHARGE LOCATIONS WITH GENERAL CONTRACTOR, OWNER'S REPRESENTATIVE, AND VPIH, IF NEEDED.

ASBESTOS ABATEMENT PHASING:

1. THE ABATEMENT CONTRACTOR SHALL WORK CLOSELY WITH THE GENERAL CONTRACTOR, CONTRACTING OFFICER, OWNER OR OWNER'S REPRESENTATIVE, AND/OR THE VPIH TO COORDINATE REMOVAL OF ACM IN ACCORDANCE WITH PROJECT SCHEDULING, SEQUENCING, AND PHASING REQUIREMENTS. SOME AFTER HOURS AND WEEK-END WORK MAY BE REQUIRED. PHASING IS SUBJECT TO CHANGE TO ACCOMMODATE SITE CONDITIONS AND FACILITY OPERATIONS.

SUMMARY OF ASBESTOS CONTAINING MATERIALS

KEY NOTE	DESCRIPTION	FRIABLE	QTY	HATCHING
1	(BLACK) WALL SURFACING	NF	70 SF	



Scale bars for various drawing elements:  
 three inches = one foot  
 one and one half inches = one foot  
 one inch = one foot  
 three quarters inch = one foot  
 one half inch = one foot  
 three eighths inch = one foot  
 one quarter inch = one foot  
 one eighth inch = one foot

CONSULTANTS:

**AMI ENVIRONMENTAL INC.**  
 8802 S 135TH STREET  
 OMAHA, NE 68138  
 PHONE: (402) 397-5001



**SUMMIT FIRE PROTECTION**  
 575 MINNEHAHA AVE WEST  
 ST. PAUL, MINNESOTA 55103  
 (612) 387-7050

ARCHITECT/ENGINEERS

**FOURFRONT DESIGN, INC.**  
 517 7TH STREET  
 RAPID CITY, SOUTH DAKOTA 57701  
 PH: (605) 342-9470  
 FAX: (605) 342-2377  
 WWW.FOURFRONTDESIGN.COM

Drawing Title  
**BASEMENT FLOOR - HAZARDOUS MATERIALS - ASBESTOS**

Approved: Project Director  
**TODD DALZELL**

Project Title  
**REFURBISH ELEVATORS AND REPLACE CONTROLS**

Location  
**2101 ELM STREET  
 FARGO, ND 58102**

Date  
 12-20-2022

Checked  
 C.L.

Drawn  
 MET

Project Number  
**437-22-101**

Building Number  
**HA101**

Dwg. 4 of 41

Office of Construction and Facilities Management



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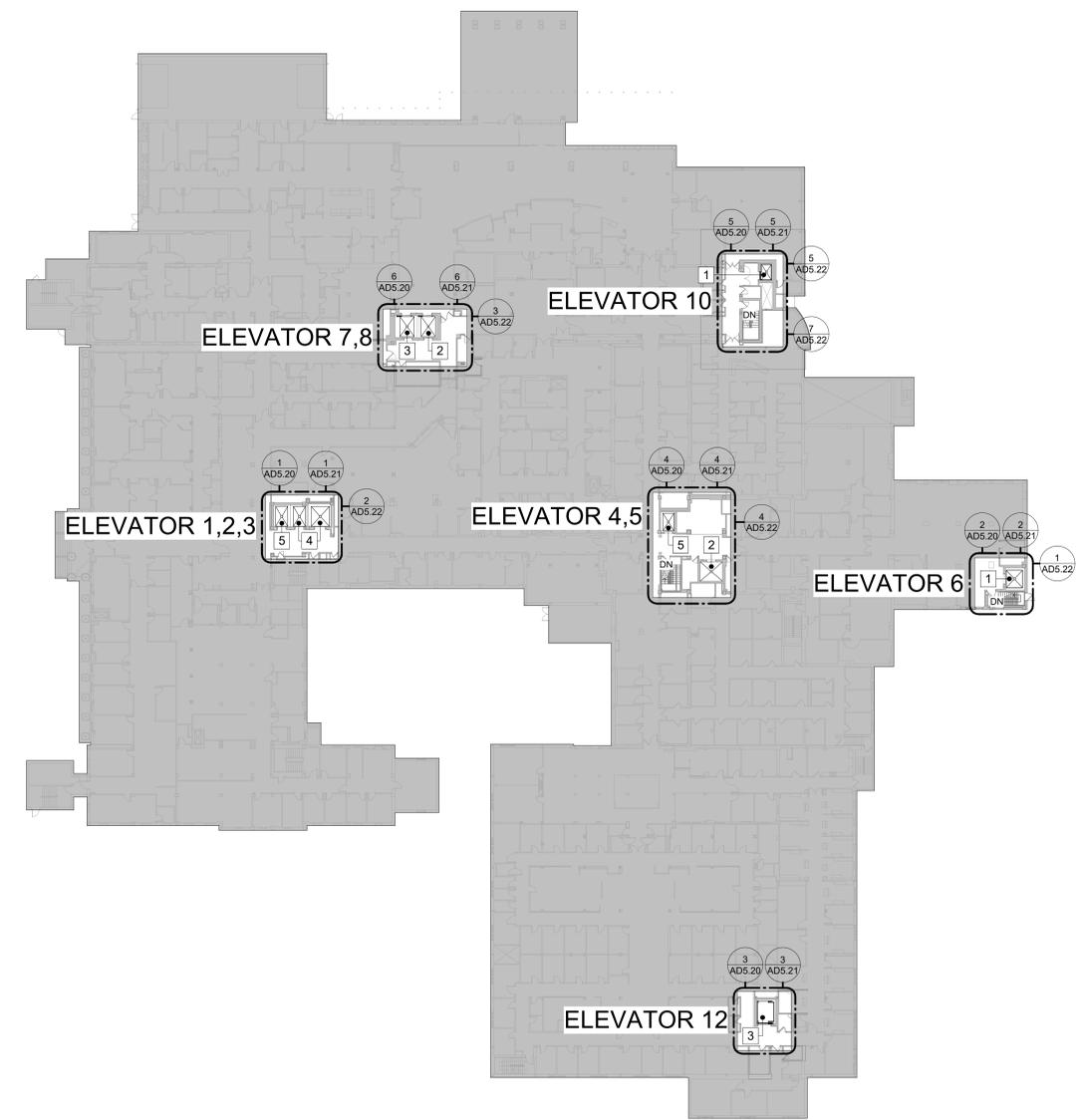
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**GENERAL NOTES:**

1. SHEET SIZE FOR PROPER SCALE IS 30"x42". CONTRACTOR SHALL NOT SCALE DRAWINGS BUT REQUEST THE DESIRED DIMENSIONS FROM THE CONTRACTING OFFICER REPRESENTATIVE.
2. THE CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING UTILITIES AND TAKE PRECAUTIONARY MEASURES TO PROTECT AND MAINTAIN THEIR FUNCTION THROUGHOUT CONSTRUCTION.
3. ALL EXISTING AREAS AFFECTED BY THE SCOPE OF THIS WORK SHALL BE PATCHED AND/OR PAINTED AS REQUIRED TO MATCH THE EXISTING CONDITIONS. PAINTING SHALL BE CARRIED BACK TO THE NEAREST CORNER, CEILING, DOOR FRAME, ETC.
4. ALL WORK SHALL CONFORM TO THE CURRENT EDITION OF ALL APPLICABLE BUILDING CODES AND ALL VA STANDARDS AND REGULATIONS. THE CONTRACTOR SHALL FURNISH ALL LABOR AND MATERIAL NECESSARY TO COMPLY WITH SUCH CODES, STANDARDS AND REGULATIONS.
5. ELEVATOR SHAFTS CANNOT BE LEFT UNPROTECTED (OPEN) AT THE END OF WORK ON ANY DAY. IF WORK WILL COMPROMISE THE FIRE RESISTANCE OF THE SHAFT, COORDINATE AND VERIFY 2-HOUR RATING FIRE/SMOKE RATED PARTITIONS ARE REQUIRED. CONTRACTOR SHALL PROTECT ADJACENT ROOMS FROM DAMAGE DURING CONSTRUCTION. REPAIR ANY DAMAGED ITEMS AND ASSEMBLIES TO PRE-PROJECT CONDITION IF DAMAGED DURING CONSTRUCTION.
6. SEE MECHANICAL, ELECTRICAL AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.
7. THE WORK SHALL BE COMPLETED IN A MANNER TO AVOID DISRUPTION OF PATIENT AND/OR STAFF ACCESS TO THE ELEVATORS FROM ANY LOBBY/FLOOR. THE VAMC WILL BE FULLY OCCUPIED AND OPERATIONAL THROUGHOUT THE DURATION OF THE PROJECT.
8. CONTRACTOR SHALL FULLY COORDINATE PHASING AND SCHEDULES WITH THE CONTRACTING OFFICER PRIOR TO BEGINNING WORK.
9. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE COR IN ADVANCE. THE COR SHALL BE GIVEN ADVANCE NOTICE FOR ALL SITE VISITS BY THE CONTRACTOR AND THEIR SUBCONTRACTORS.
10. CONTRACTOR SHALL REMOVE AND REINSTALL EXISTING DOORS AS REQUIRED FOR REMOVAL AND INSTALLATION OF NEW ELEVATOR EQUIPMENT.

**MAP LEGEND**

- PHASE 1 1
- PHASE 2 2
- PHASE 3 3
- PHASE 4 4
- PHASE 5 5



1 FLOOR PLAN - LEVEL 1 DEMOLITION - OVERALL REFERENCE PLAN  
 1/32" = 1'-0"

Revisions:	Date

**CONSULTANTS:**

SUMMIT FIRE CONSULTING  
 575 MINNEHAHA AVE WEST  
 ST. PAUL, MINNESOTA 55103  
 (612) 387-7050



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 RAPID CITY, SOUTH DAKOTA 57701  
 PH: (605) 342-9470  
 FAX: (605) 342-2377  
 WWW.FOURFRONTDESIGN.COM

Drawing Title <b>DEMOLITION PLAN</b>
Approved: Project Director <b>FARGO VAMC</b>

Project Title <b>REFURBISH ELEVATORS AND REPLACE CONTROLS</b>		
Location <b>2101 ELM STREET FARGO, ND 58102</b>		
Date 12.20.22	Checked JS	Drawn JE

Project Number 437-22-101
Building Number <b>1,946</b>
Drawing Number <b>AD1.00</b>
Dwg. 5 of 41

Office of Construction and Facilities Management  
 Department of Veterans Affairs



**GENERAL NOTES:**

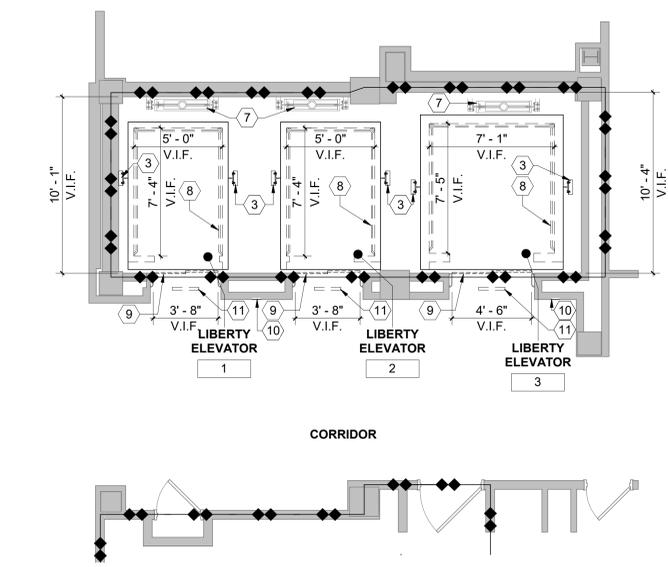
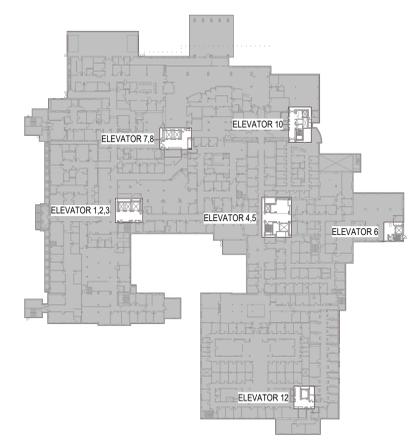
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10. CONTRACTOR SHALL REMOVE AND REINSTALL EXISTING DOORS AS REQUIRED FOR REMOVAL AND INSTALLATION OF NEW ELEVATOR EQUIPMENT.

**KEYNOTES: #**

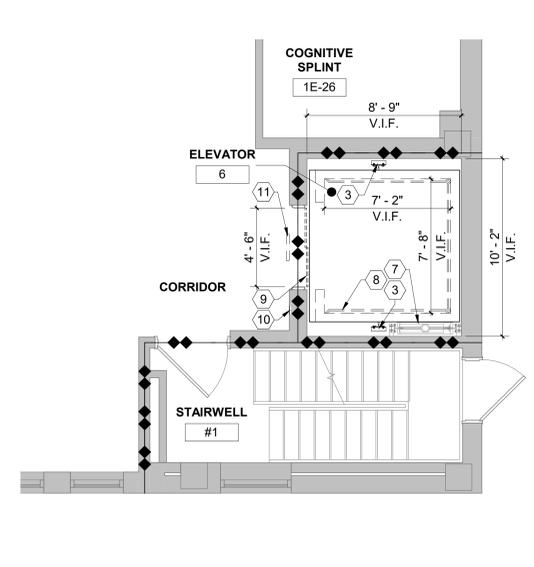
1. REMOVE AND DISPOSE OF EXISTING OIL BUFFERS.
2. COMPENSATION ASSEMBLY TO REMAIN AND BE REFINISHED.
3. EXISTING GUIDE RAILS TO REMAIN AND BE REFINISHED. REALIGN TO COORDINATE WITH NEW EQUIPMENT AND TIGHTEN ALL MOUNTING BRACKETS. TYPICAL AT ALL CAR AND COUNTERWEIGHT GUIDE RAILS.
4. REMOVE AND DISPOSE OF EXISTING GOVERNOR TENSION SHEAVE ASSEMBLY.
5. NOT USED.
6. EXISTING COUNTERWEIGHT PIT GUARD TO REMAIN. REBALANCE COUNTERWEIGHT AS REQUIRED.
7. EXISTING COUNTERWEIGHT ASSEMBLY TO REMAIN. REFINISH AND REFINISH TO LIKE NEW CONDITION. REMOVE EXISTING CAR PLATFORM AND ENCLOSURE AND PROVIDE NEW CAR PLATFORM AND ENCLOSURE. PASSENGER CAR FRAMES SHALL REMAIN AND BE REFINISHED.
8. REMOVE AND DISPOSE OF EXISTING HOISTWAY DOOR PANELS. ENTRANCE FRAMES TO REMAIN AND BE REFINISHED. FULLY CLEAN AND BUFF OUT ALL SCRATCHES. ALSO REMOVE ANY ADHESIVE FROM PREVIOUSLY MOUNTED SIGNAGE. TYPICAL FOR ALL ENTRANCES.
10. CAREFULLY REMOVE EXISTING HALL CALL STATIONS AND PREPARE SUBSTRATE FOR NEW HALL CALL STATIONS. SEE LOBBY ELEVATIONS ON SHEET A5.30.
11. CAREFULLY REMOVE EXISTING LANDING POSITION INDICATORS. TYPICAL FOR ALL HOISTWAY ENTRANCES. SEE LOBBY ELEVATIONS ON SHEET A5.30.
12. EXISTING METAL PIT LADDER TO REMAIN.
13. NOT USED.
14. REPLACE EXISTING COUNTERWEIGHT ASSEMBLY IN ELEVATOR 7 AND 8. BALANCE COUNTERWEIGHT AS REQUIRED.
15. REPLACE EXISTING GUIDE RAILS DUE TO WATER DAMAGE. APPLIES TO ELEVATOR 7 AND 8 ONLY.

**FIRE BARRIER LEGEND**

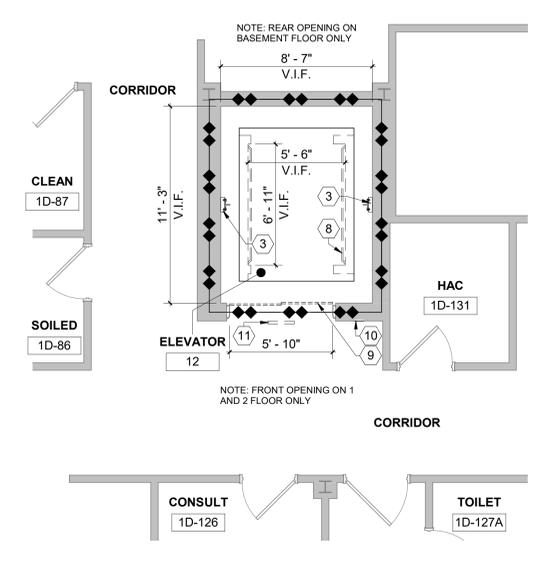
EXISTING 2 HOUR FIRE RATED PARTITION



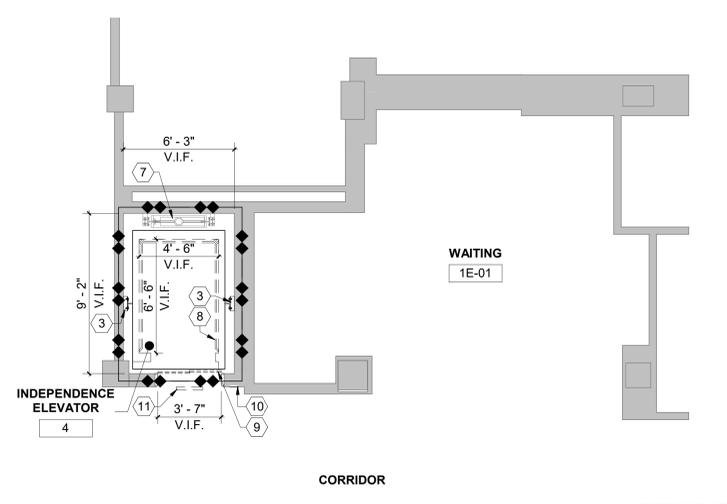
1 FLOOR PLAN - LIBERTY 1,2,3 - DEMOLITION TYPICAL  
1/4" = 1'-0"



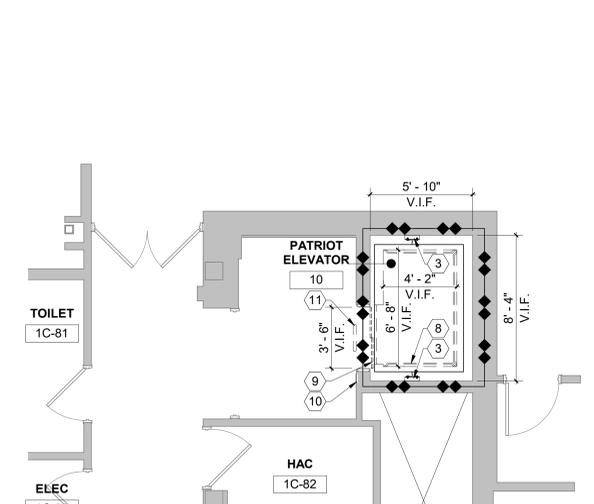
2 FLOOR PLAN - ELEVATOR 6 - DEMOLITION TYPICAL  
1/4" = 1'-0"



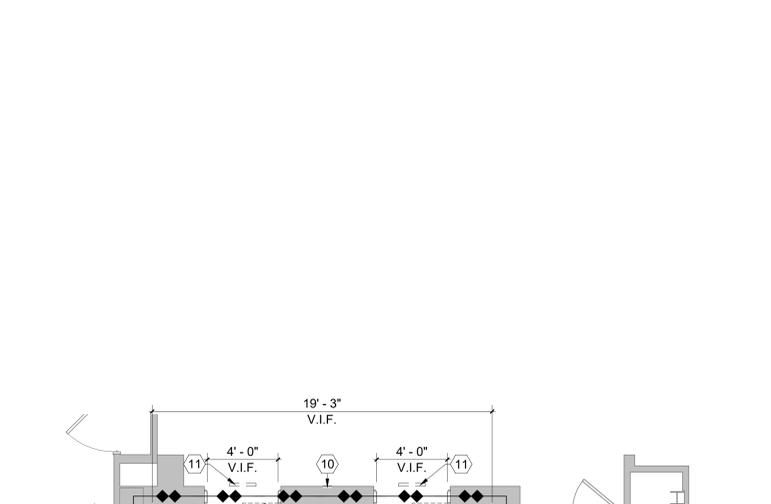
3 FLOOR PLAN - ELEVATOR 12 - DEMOLITION TYPICAL  
1/4" = 1'-0"



4 FLOOR PLAN - INDEPENDENCE 4,5 - DEMOLITION TYPICAL  
1/4" = 1'-0"



5 FLOOR PLAN - PATRIOT ELEVATOR 10 - DEMOLITION TYPICAL  
1/4" = 1'-0"



6 FLOOR PLAN - VICTORY ELEVATOR 7,8 - DEMOLITION TYPICAL  
1/4" = 1'-0"

**CONSULTANTS:**



SUMMIT FIRE CONSULTING  
575 MINNEHAHA AVE WEST  
ST. PAUL, MINNESOTA 55103  
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**ARCHITECT/ENGINEERS**

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PH: (605) 342-9470  
FAX: (605) 342-2377  
WWW.FOURFRONTDESIGN.COM

Drawing Title  
**ENLARGED PLANS - DEMOLITION**

Approved: Project Director  
**FARGO VAMC**

Project Title  
**REFURBISH ELEVATORS AND REPLACE CONTROLS**

Location  
**2101 ELM STREET  
FARGO, ND 58102**

Project Number  
**437-22-101**

Building Number  
**1,946**

Drawing Number  
**AD5.21**

Office of  
Construction  
and Facilities  
Management



5/12/2023 8:53:01 AM

**GENERAL NOTES:**

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3. ALL EXISTING WORK SHALL BE CARRIED BACK TO THE NEAREST CORNER, CEILING, DOOR FRAME, ETC.
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6. SEE MECHANICAL, ELECTRICAL AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.
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10. CONTRACTOR SHALL REMOVE AND REINSTALL EXISTING DOORS AS REQUIRED FOR REMOVAL AND INSTALLATION OF NEW ELEVATOR EQUIPMENT.

**KEYNOTES: #**

1. REMOVE AND DISPOSE OF EXISTING HOISTWAY DC MOTOR AND PREPARE EXISTING MOUNTING LOCATION AS REQUIRED TO ACCOMMODATE THE INSTALLATION OF THE NEW AC GEARLESS HOISTWAY MOTOR.
2. REMOVE AND DISPOSE OF EXISTING ELEVATOR CONTROLLER AND ASSOCIATED RACEWAY.
3. REMOVE AND DISPOSE OF EXISTING ELECTRICAL ISOLATION TRANSFORMER.
4. PROTECT AND MAINTAIN EXISTING AIR HANDLER AND ALL ASSOCIATED ELECTRICAL.
5. CAREFULLY REMOVE EXISTING RAILING AS REQUIRED FOR REMOVAL AND REPLACEMENT OF HOISTWAY MOTORS. REINSTALL TO MATCH CURRENT CONDITION.
6. PROTECT AND MAINTAIN EXISTING SEALED CONCRETE FLOORS THROUGHOUT THE PROJECT. FLOORS SHALL MATCH CURRENT CONDITION UPON COMPLETION.
7. EXISTING FLOOR HATCH.
8. NOT USED.
9. EXISTING CONCRETE COLUMN.
10. REMOVE AND DISPOSE OF EXISTING GOVERNOR.
11. REMOVE AND DISPOSE OF EXISTING HYDROLIC PUMP ASSEMBLY. SEE MEP DRAWINGS FOR FURTHER DETAIL.
12. REMOVE AND DISPOSE OF EXISTING HYDROLIC ELEVATOR CONTROLLER. SEE MEP DRAWINGS FOR FURTHER DETAIL.
13. REMOVE EXISTING PAINTED GYPSUM BOARD CEILING TO THE EXTENT SHOWN ON DRAWINGS.
14. CONTRACTOR TO SAWCUT AND REMOVE EXISTING FLOOR SLAB AS REQUIRED FOR THE PLUMBER TO INSTALL UNDERSLAB DRAINAGE LINE. SEE MECH.
15. EXISTING WALL SURFACE WILL BE REMOVED PER THE ASBESTOS ABATEMENT PLAN ON DRAWING SHEET HA101.

**FIRE BARRIER LEGEND**

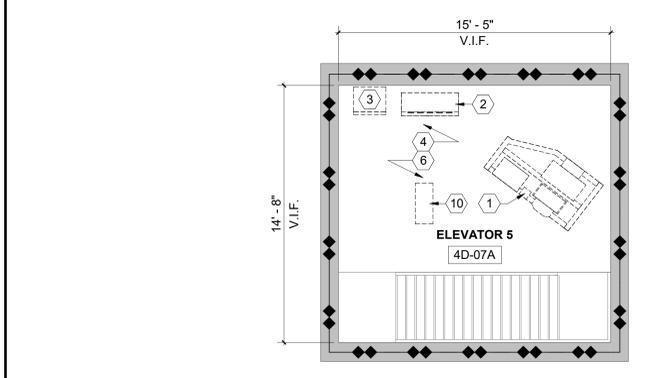
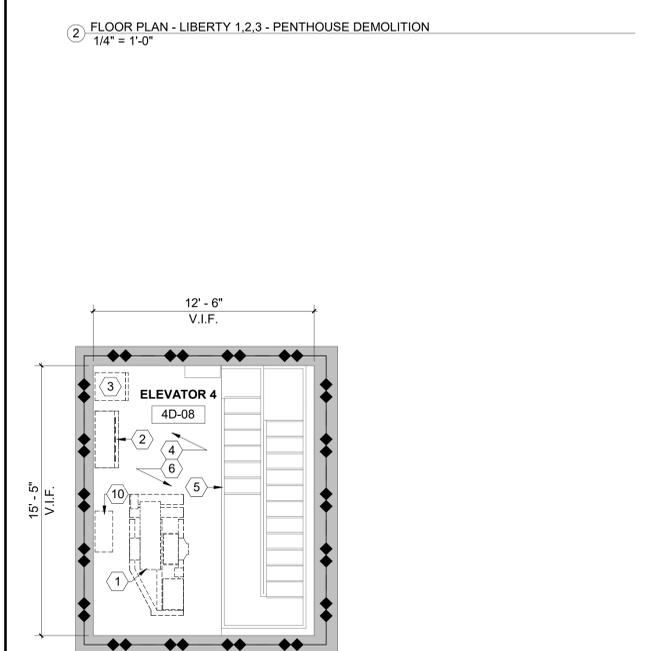
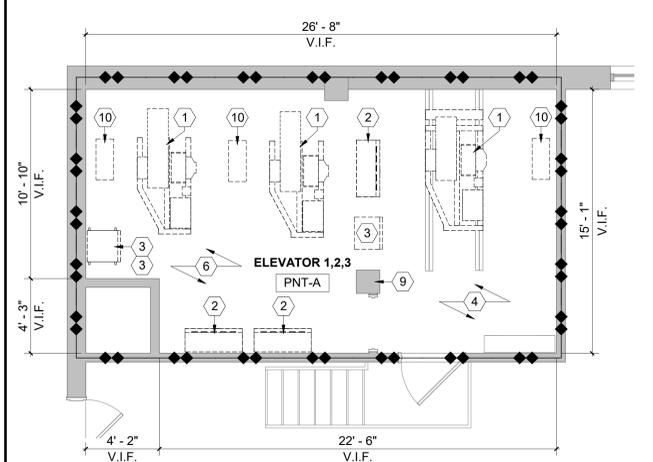
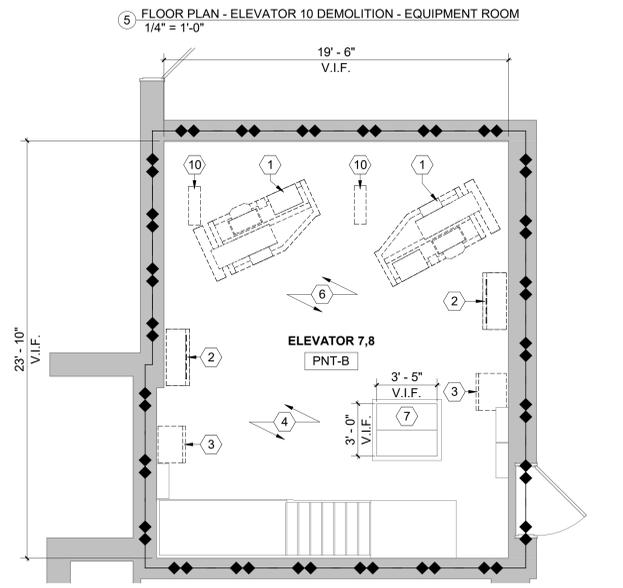
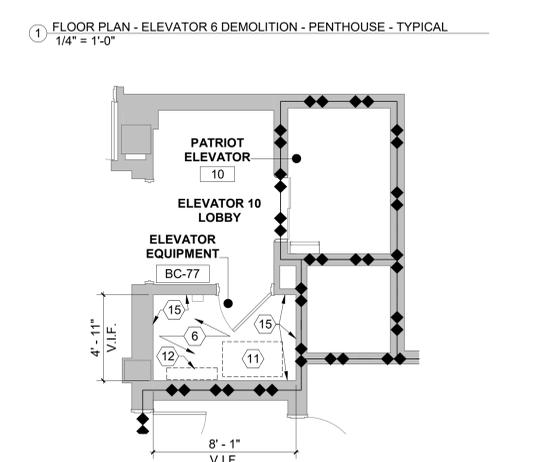
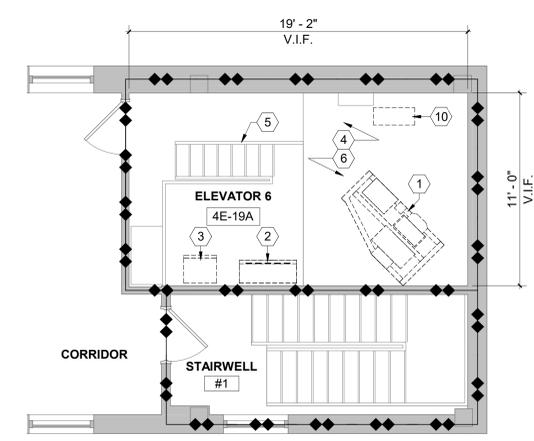
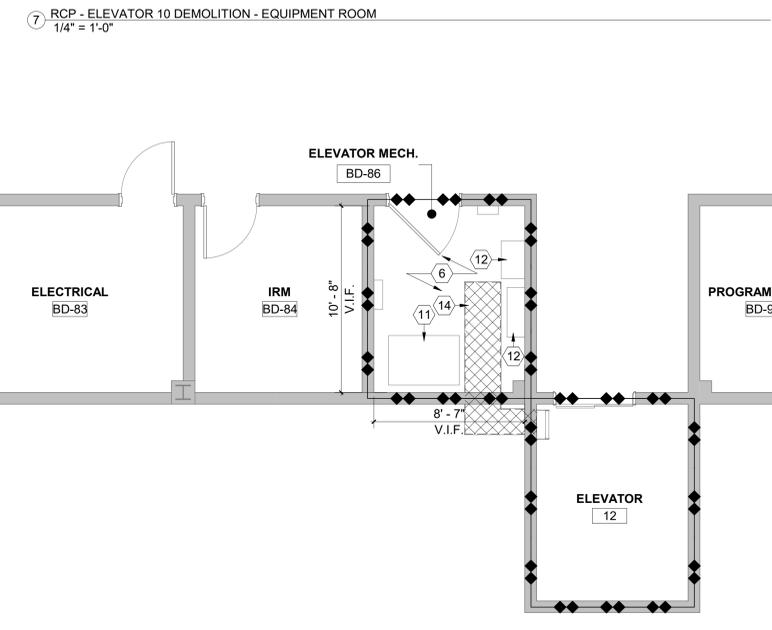
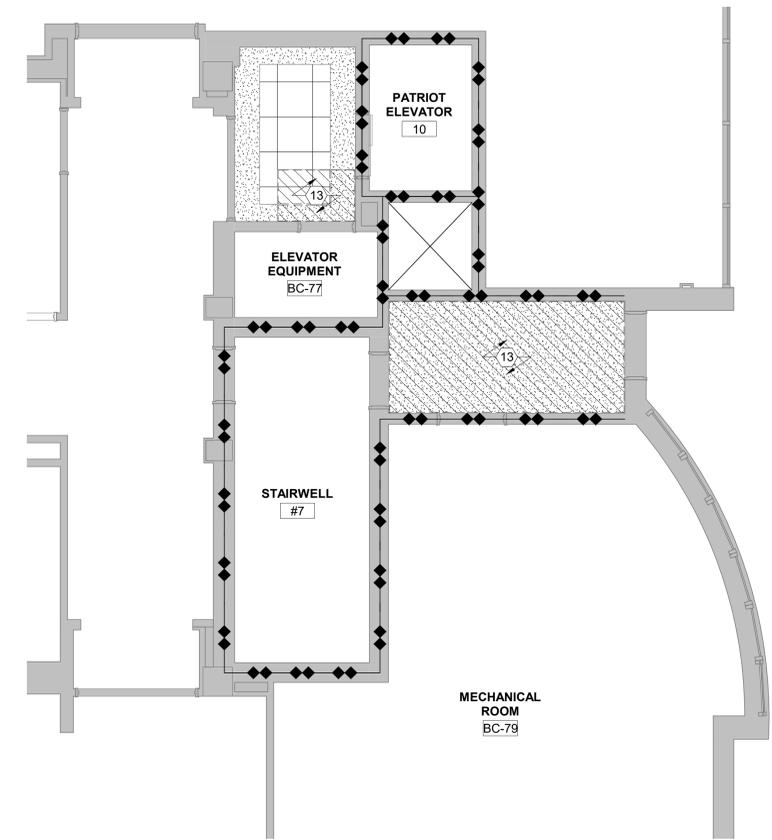
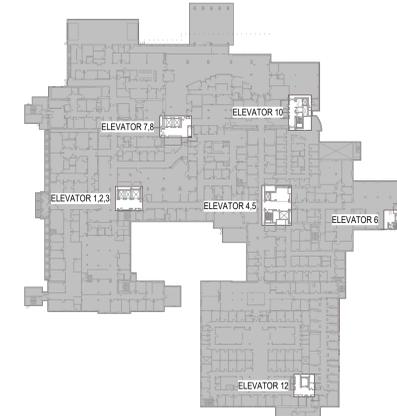
EXISTING 2 HOUR FIRE RATED PARTITION

**DEMOLITION LEGEND**

SCOPE OF CEILING DEMOLITION WORK ASSOCIATED WITH NEW ABOVE CEILING PIPING. SEE MECHANICAL DRAWINGS.

SCOPE OF FLOOR DEMOLITION WORK ASSOCIATED WITH NEW FLOOR PIPING. SEE MECHANICAL DRAWINGS.

**KEY PLAN**



4 FLOOR PLAN - INDEPENDENCE 4.5 - PENTHOUSE DEMOLITION  
1/4" = 1'-0"

1 FLOOR PLAN - ELEVATOR 6 DEMOLITION - PENTHOUSE - TYPICAL  
1/4" = 1'-0"

5 FLOOR PLAN - ELEVATOR 10 DEMOLITION - EQUIPMENT ROOM  
1/4" = 1'-0"

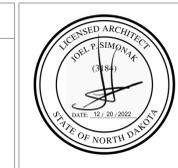
7 RCP - ELEVATOR 10 DEMOLITION - EQUIPMENT ROOM  
1/4" = 1'-0"

3 FLOOR PLAN - VICTORY ELEVATOR 7,8 - PENTHOUSE DEMOLITION  
1/4" = 1'-0"

6 FLOOR PLAN - ELEVATOR 12 DEMOLITION - EQUIPMENT ROOM  
1/4" = 1'-0"

**CONSULTANTS:**

**SUMMIT**  
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SUMMIT FIRE CONSULTING  
575 MINNEHAHA AVE WEST  
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Drawing Title  
**ENLARGED PLANS - PENTHOUSE / EQUIPMENT ROOMS - DEMOLITION**

Approved: Project Director  
**FARGO VAMC**

Project Title  
**REFURBISH ELEVATORS AND REPLACE CONTROLS**

Location  
**2101 ELM STREET  
FARGO, ND 58102**

Date  
12.20.22

Checked  
JS

Drawn  
JE

Project Number  
437-22-101

Building Number  
**1,946**

Drawing Number  
**AD5.22**

Dwg. 8 of 41

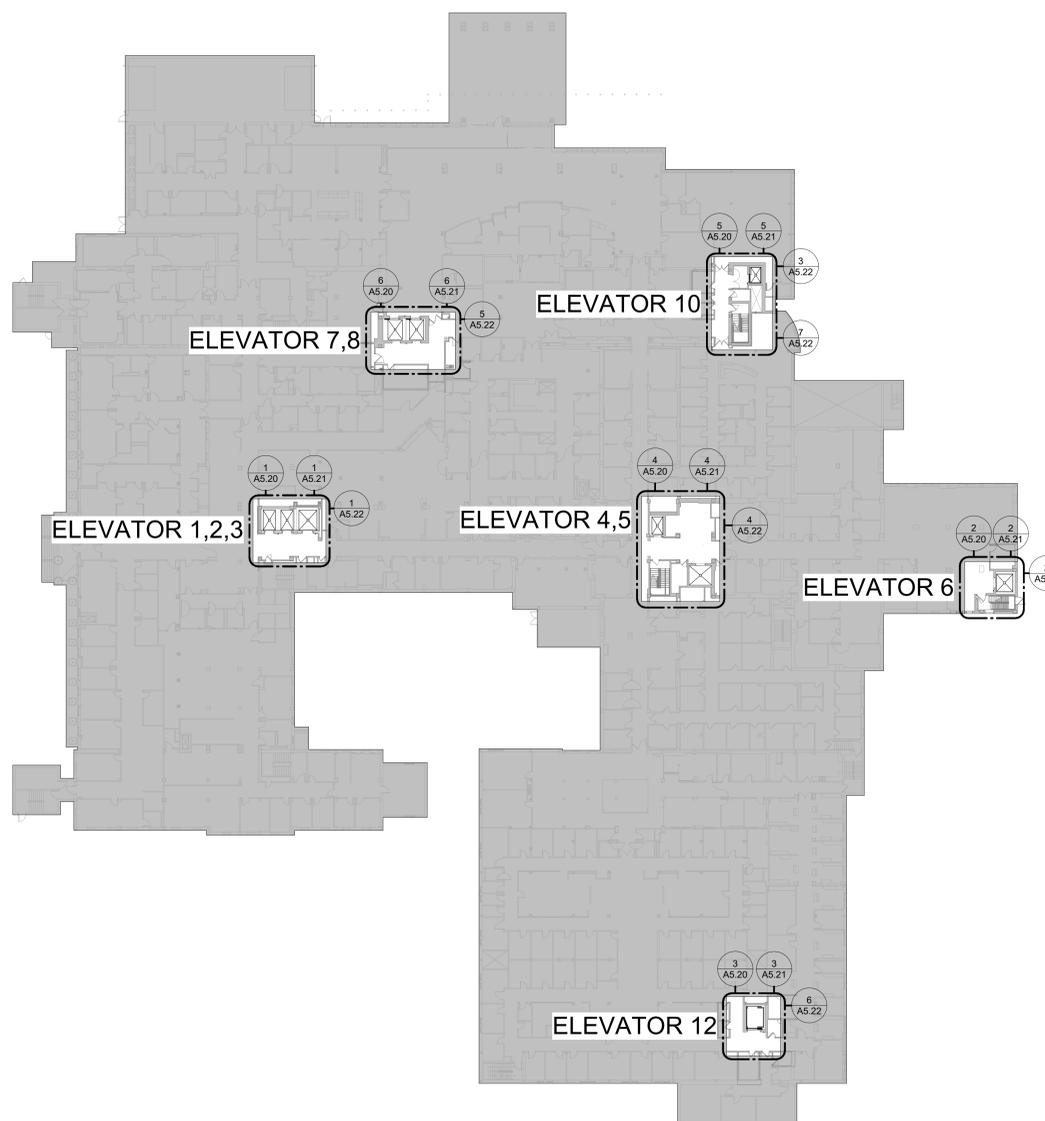
Office of  
Construction  
and Facilities  
Management

Department of  
Veterans Affairs



**GENERAL NOTES:**

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10. CONTRACTOR SHALL REMOVE AND REINSTALL EXISTING DOORS AS REQUIRED FOR REMOVAL AND INSTALLATION OF NEW ELEVATOR EQUIPMENT.



1 FLOOR PLAN - LEVEL 1 - OVERALL REFERENCE PLAN  
1/32" = 1'-0"

**ELEVATOR SCHEDULE**

ELEVATOR NUMBER	TYPE (PASSENGER/SERVICE)	NUMBER OF FLOORS SERVICED	WEIGHT CAPACITY	SPEED (FPM)	DIMENSIONS (APPROXIMATE)	DRIVE HYDRAULIC/ ELECTRICAL TRACTION	DOOR SIDE OPENING / CENTER OPENING	COMMENTS
ELEVATOR 1	PASSENGER	BASEMENT THRU FOURTH (5 FLOORS)	4000	200	7'-4" x 5'-0"	ELECTRICAL TRACTION	SIDE OPENING DOOR	-
ELEVATOR 2	PASSENGER	BASEMENT THRU FOURTH (5 FLOORS)	4000	200	7'-4" x 5'-0"	ELECTRICAL TRACTION	SIDE OPENING DOOR	-
ELEVATOR 3	SERVICE	BASEMENT THRU FOURTH (5 FLOORS)	6000	150	7'-5" x 7'-1"	ELECTRICAL TRACTION	CENTER OPENING DOOR	-
ELEVATOR 4	PASSENGER	BASEMENT THRU FOURTH (5 FLOORS)	2500	200	4'-6" x 6'-6"	ELECTRICAL TRACTION	SIDE OPENING DOOR	-
ELEVATOR 5	PASSENGER	BASEMENT THRU FOURTH (5 FLOORS)	3000	300	7'-8" x 7'-0 3/4"	ELECTRICAL TRACTION	CENTER OPENING DOOR	-
ELEVATOR 6	PASSENGER	BASEMENT THRU THIRD (4 FLOORS)	3000	300	7'-2" x 7'-8"	ELECTRICAL TRACTION	CENTER OPENING DOOR	-
ELEVATOR 7	PASSENGER	BASEMENT THRU FOURTH (5 FLOORS)	5000	300	7'-9" x 6'-4"	ELECTRICAL TRACTION	CENTER OPENING DOOR	-
ELEVATOR 8	PASSENGER	BASEMENT THRU FOURTH (5 FLOORS)	5000	300	7'-8" x 6'-4"	ELECTRICAL TRACTION	CENTER OPENING DOOR	-
ELEVATOR 10	PASSENGER	BASEMENT THRU GROUND (2 FLOORS)	3500	200	6'-8" x 4'-2"	HYDRAULIC	SIDE OPENING DOOR	-
ELEVATOR 12	PASSENGER	BASEMENT THRU SECOND (3 FLOORS)	5000	200	6'-11" x 5'-6"	HYDRAULIC	SIDE OPENING DOOR	-

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Drawing Title  
**FLOOR PLAN / ELEVATOR SCHEDULE**

Approved: Project Director  
**FARGO VAMC**

Project Title  
**REFURBISH ELEVATORS AND REPLACE CONTROLS**

Location  
**2101 ELM STREET  
FARGO, ND 58102**

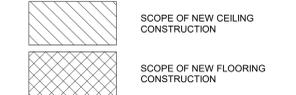
Project Number  
437-22-101  
Building Number  
**1,946**

Drawing Number  
**A1.00**  
Dwg. 9 of 41

Office of  
Construction  
and Facilities  
Management



**FLOOR PLAN LEGEND**



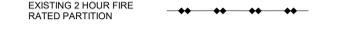
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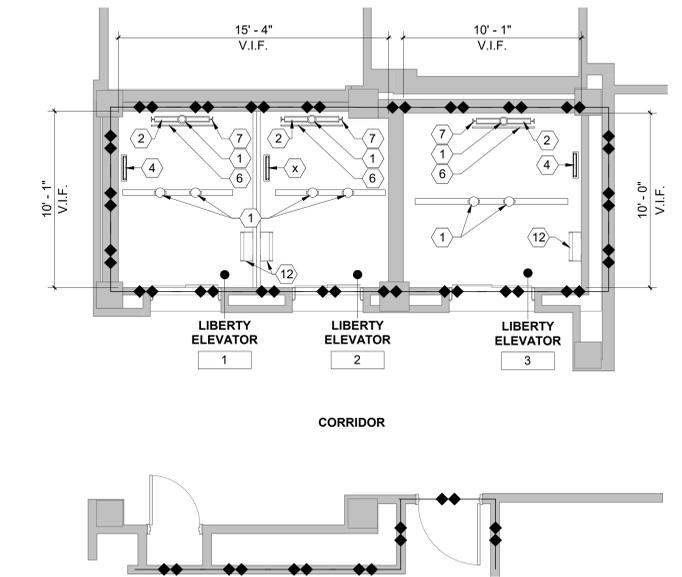
**KEYNOTES: #**

1. NEW OIL BUFFERS.
2. COMPENSATION ASSEMBLY TO REMAIN AND BE REFURBISHED.
3. EXISTING GUIDE RAILS TO REMAIN AND BE REFURBISHED. REALIGN TO COORDINATE WITH NEW EQUIPMENT AND TIGHTEN ALL MOUNTING BRACKETS. TYPICAL AT ALL CAR AND COUNTERWEIGHT GUIDE RAILS.
4. NEW GOVERNOR TENSION SHEAVE ASSEMBLY. NOT USED.
5. EXISTING COUNTERWEIGHT PIT GUARD TO REMAIN. EXISTING COUNTERWEIGHT ASSEMBLY TO REMAIN. REBALANCE COUNTERWEIGHT AS REQUIRED.
6. REFURBISH AND REFINISH TO LIKE NEW CONDITION. NEW CAR PLATFORM AND ENCLOSURE. CAR FRAMES SHALL REMAIN AND BE REFURBISHED. SEE DETAILS ON SHEETS A5-40.
7. NEW HOISTWAY DOOR PANELS. ENTRANCE FRAMES TO REMAIN AND BE REFURBISHED. FULLY CLEAN AND BUFF OUT ALL SCRATCHES. ALSO REMOVE ANY ADHESIVE FROM PREVIOUSLY MOUNTED SIGNAGE. TYPICAL FOR ALL ENTRANCES.
8. NEW HALL CALL STATIONS. SEE LOBBY ELEVATIONS ON SHEET A5-30 AND DETAILS ON A5-40.
9. NEW DIGITAL LANDING LANTERNS. TYPICAL FOR ALL HOISTWAY ENTRANCES. SEE LOBBY ELEVATIONS ON SHEET A5-30.
10. EXISTING METAL PIT LADDER TO REMAIN.
11. NOT USED.
12. RESILIENT TILE FLOORING. SEE SPECIFICATIONS.
13. NEW GUIDE RAILS. INSTALL TO COORDINATE WITH OTHER NEW EQUIPMENT. PROVIDE NEW MOUNTING BRACKETS. APPLIES TO ELEVATOR 7 AND 8 ONLY DUE TO WATER DAMAGE.
14. NEW COUNTERWEIGHT RAILS AND PIT GUARD. INSTALL TO COORDINATE WITH OTHER NEW EQUIPMENT. PROVIDE NEW MOUNTING BRACKETS. APPLIES TO ELEVATOR 7 AND 8 ONLY DUE TO WATER DAMAGE.
15. EXISTING HYDRAULIC PISTON TO BE REUSED.
16. PATCH AND REPAIR FLOOR SLAB TO MATCH EXISTING CONDITIONS.

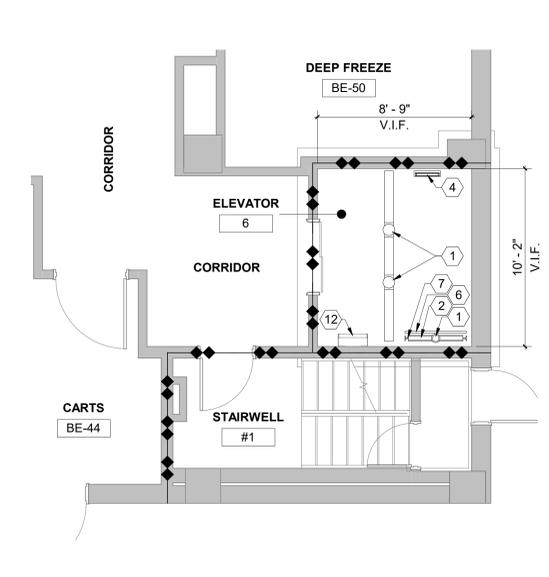
**FIRE BARRIER LEGEND**



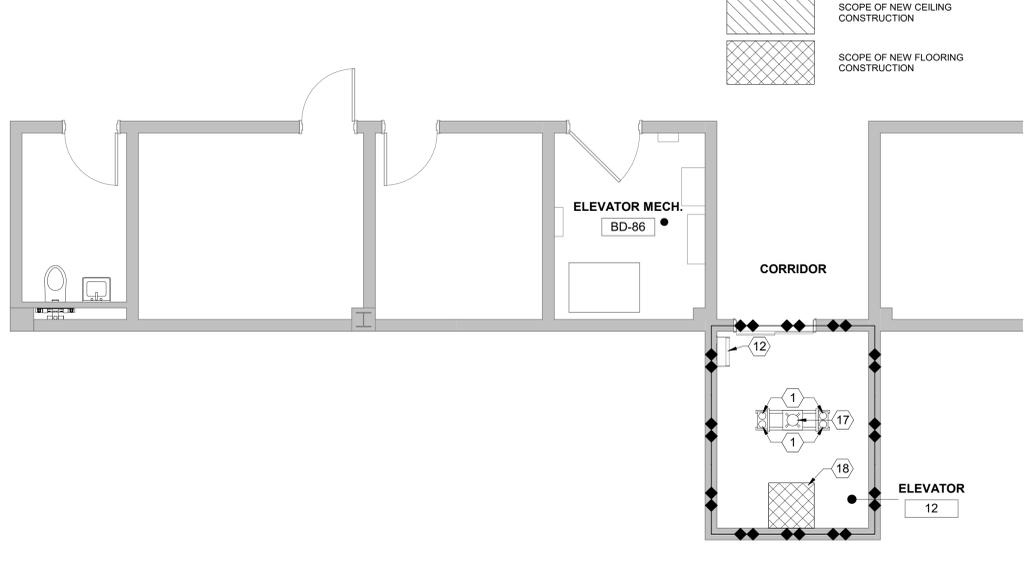
1 FLOOR PLAN - LIBERTY 1,2,3 - PIT  
1/4" = 1'-0"



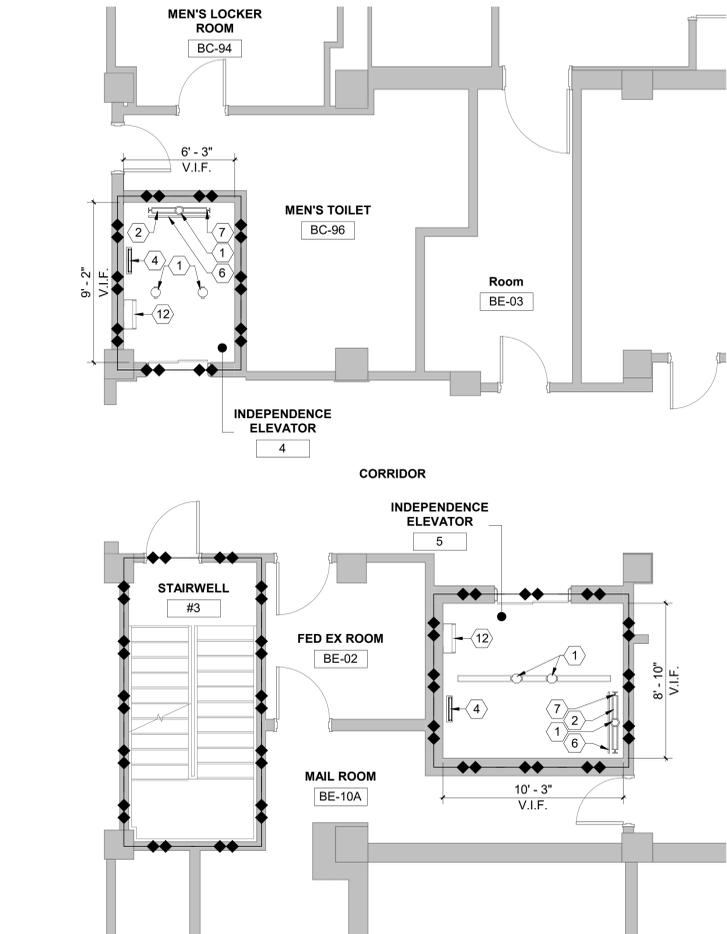
2 FLOOR PLAN - ELEVATOR 6 - PIT  
1/4" = 1'-0"



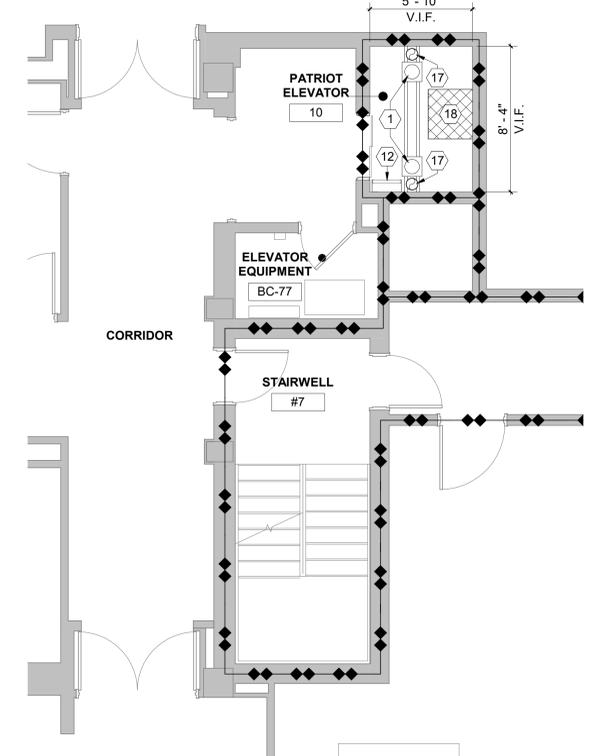
3 FLOOR PLAN - ELEVATOR 12 - PIT  
1/4" = 1'-0"



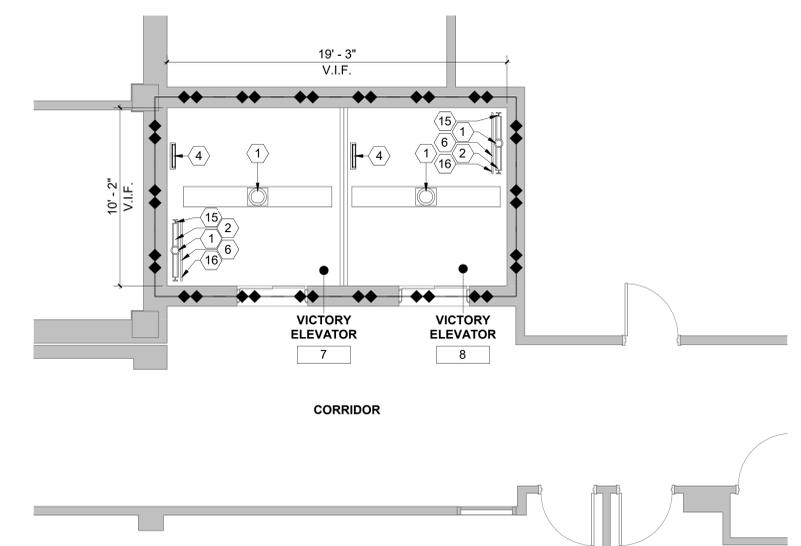
4 FLOOR PLAN - INDEPENDENCE 4,5 - PIT  
1/4" = 1'-0"



5 FLOOR PLAN - PATRIOT ELEVATOR 10 - PIT  
1/4" = 1'-0"

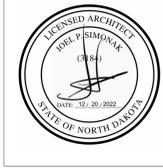


6 FLOOR PLAN - VICTORY ELEVATOR 7,8 - PIT  
1/4" = 1'-0"



**CONSULTANTS:**

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Drawing Title <b>ENLARGED PLANS - ELEVATOR PITS</b>	
Approved: Project Director <b>FARGO VAMC</b>	Date 12.20.22

Project Title <b>REFURBISH ELEVATORS AND REPLACE CONTROLS</b>	
Location 2101 ELM STREET FARGO, ND 58102	Checked JS
Date 12.20.22	Drawn JE

Project Number 437-22-101	Building Number <b>1,946</b>
Drawing Number <b>A5.20</b>	Dwg. 10 of 41

Office of  
Construction  
and Facilities  
Management  
**Department of Veterans Affairs**

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**KEYNOTES: #**

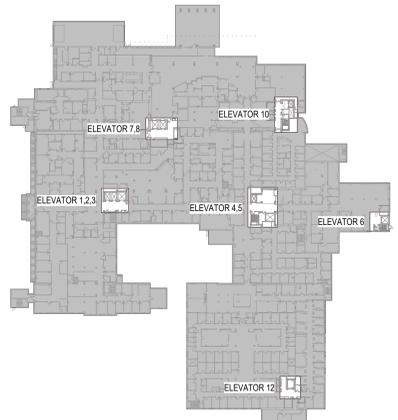
1. NEW AC GEARED HOISTING MACHINE AND MOTOR.
2. NEW VARIABLE FREQUENCY/VARIABLE DRIVE CONTROLLER. SEE SPECIFICATION.
3. NEW GOVERNORS. VERIFY REQUIRED CLEARANCE.
4. NEW VARIABLE FREQUENCY DRIVE AND ALL ASSOCIATED EQUIPMENT. SEE SPECIFICATION.
5. NEW GROUP CONTROLLER. VERIFY LOCATION WITH OWNER. SEE SPECIFICATION.
6. EXISTING FLOOR HATCH.
7. REINSTALL EXISTING HANDRAIL TO MATCH CURRENT CONDITION.
8. NEW ISOLATION TRANSFORMER FOR THE ELEVATOR CONTROLLER.
9. ELECTRICAL PANEL, RE: ELECTRICAL DRAWINGS.
10. EXISTING CONCRETE COLUMN.
11. PROTECT AND MAINTAIN EXISTING AIR HANDLER AND ALL ASSOCIATED ELECTRICAL.
12. NEW HYDRAULIC PUMP ASSEMBLY. SEE MEP DRAWINGS FOR FURTHER DETAIL.
13. NEW HYDRAULIC ELEVATOR CONTROLLER. SEE MEP DRAWINGS FOR FURTHER DETAIL.
14. NOT USED.
15. REPLACE EXISTING CEILING TO MATCH EXISTING CONDITIONS. EXISTING CEILING IS PAINTED GYPSUM BOARD. COORDINATE WITH EXISTING MECHANICAL AND ELECTRICAL.
16. PATCH AND REPAIR FLOOR SLAB TO MATCH EXISTING CONDITIONS.
17. PATCH AND REPAIR EXISTING WALL SURFACE AFTER THE ABATEMENT OF EXISTING BLACK MASTIC AS SHOWN ON HA101. WALL SURFACE SHALL BE FINISHED SMOOTH WITH DRYWALL COMPOUND AND PAINTED.

**FIRE BARRIER LEGEND**

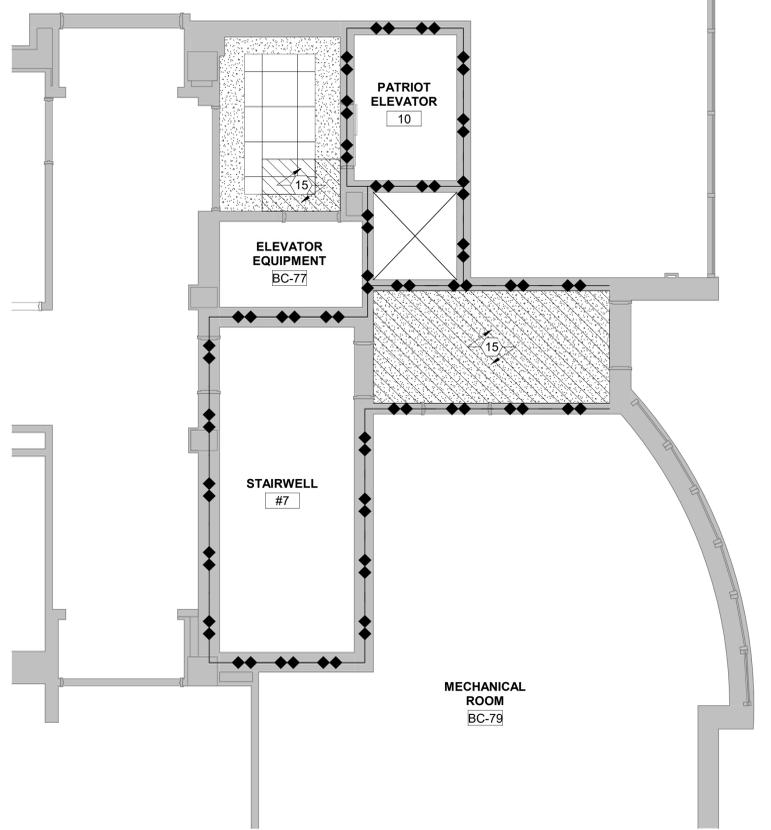
EXISTING 2 HOUR FIRE RATED PARTITION

**FLOOR PLAN LEGEND**

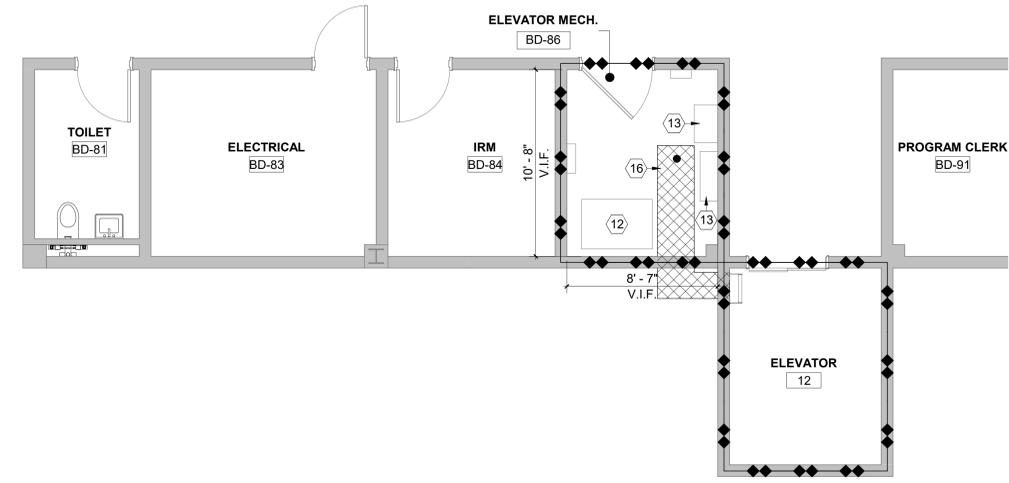
SCOPE OF NEW CEILING CONSTRUCTION  
 SCOPE OF NEW FLOORING CONSTRUCTION



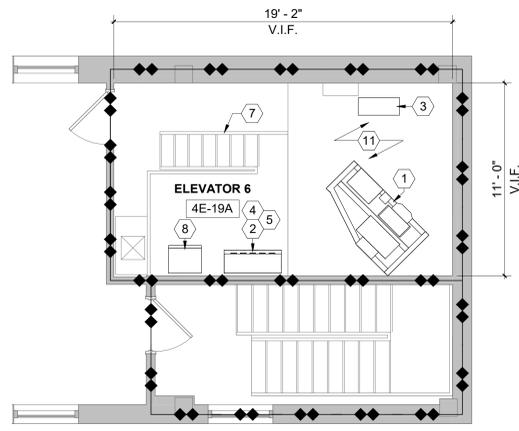
**KEY PLAN**



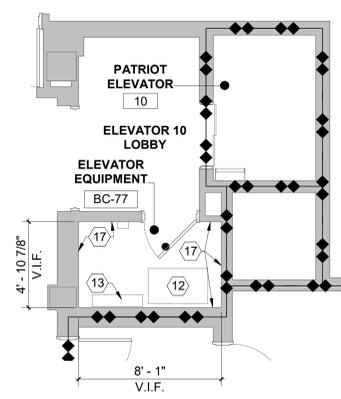
7 RCP - ELEVATOR 10 NEW - EQUIPMENT ROOM  
1/4" = 1'-0"



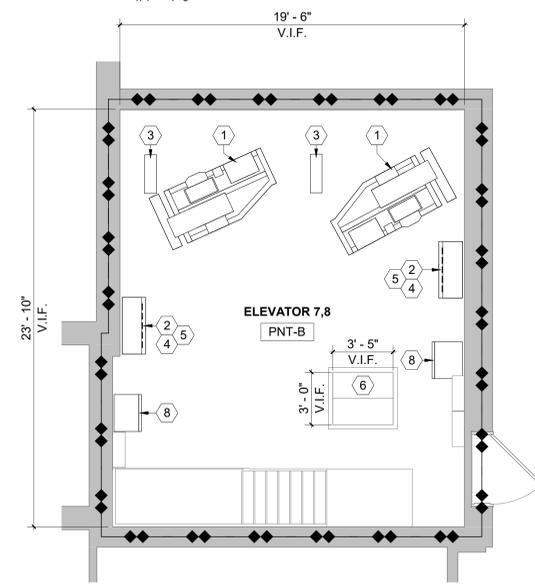
6 FLOOR PLAN - ELEVATOR 12 - EQUIPMENT ROOM  
1/4" = 1'-0"



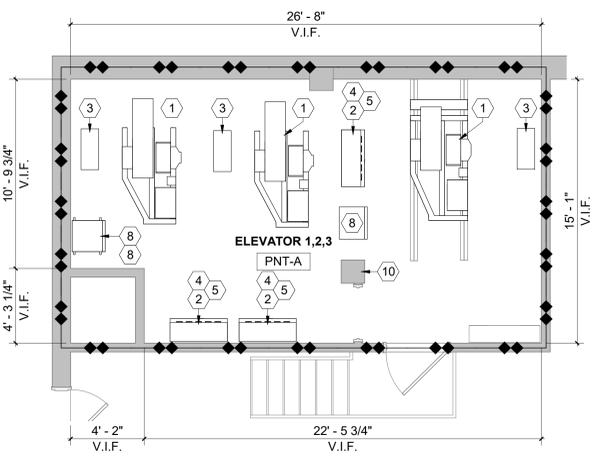
2 FLOOR PLAN - ELEVATOR 6 - PENTHOUSE - TYPICAL  
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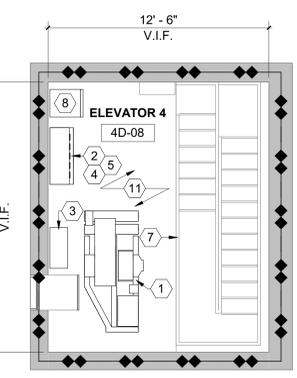
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1/4" = 1'-0"



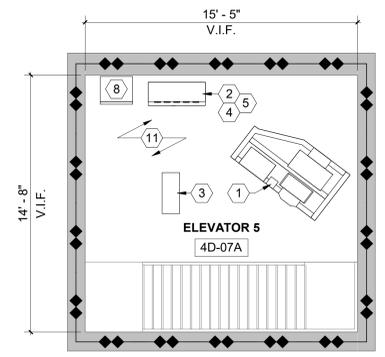
5 FLOOR PLAN - VICTORY ELEVATOR 7,8 PENTHOUSE - TYPICAL  
1/4" = 1'-0"



1 FLOOR PLAN - LIBERTY 1,2,3 PENTHOUSE - TYPICAL  
1/4" = 1'-0"



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Drawing Title  
**ENLARGED PLANS - PENTHOUSE / EQUIPMENT ROOMS**

Approved: Project Director  
**FARGO VAMC**

Project Title  
**REFURBISH ELEVATORS AND REPLACE CONTROLS**

Location  
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Project Number  
**437-22-101**

Building Number  
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Drawing Number  
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Dwg. 12 of 41

Office of  
Construction  
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Management

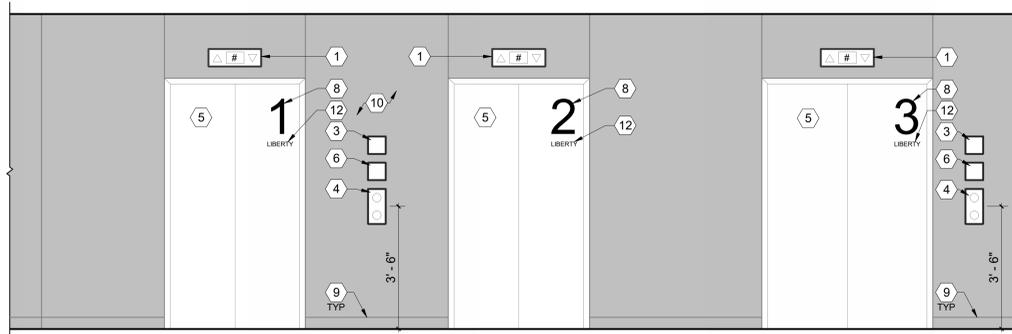


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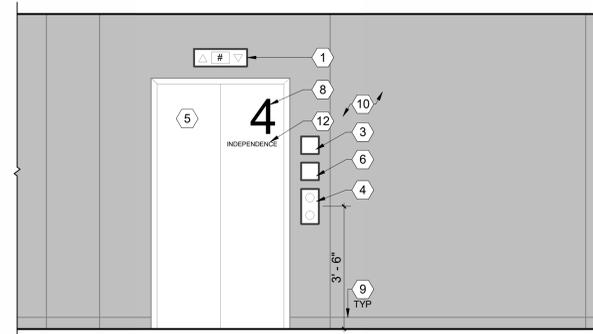
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**KEYNOTES: #**

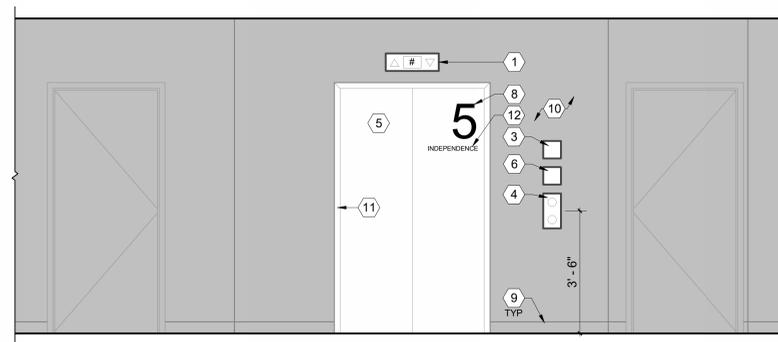
1. NEW DIGITAL LANDING LANTERNS. PATCH AND REPAIR EXISTING ADJACENT GYPSUM BOARD AS REQUIRED AND PAINT TO MATCH.
2. NOT USED.
3. PROVIDE NEW WARNING SIGNS PER A17.1, "SAFETY CODE FOR ELEVATORS AND ESCALATORS."
4. REMOVE EXISTING HALL CALL STATIONS AND PROVIDE NEW HALL CALL STATIONS FOR ALL ELEVATOR LANDINGS. INCORPORATE MEDICAL EMERGENCY SWITCH IN CALL BUTTON FACEPLATE. V.I.F. SIZE TO MATCH EXISTING PANEL. PROVIDE COORESPONDING BRAILLE AT EACH BOTTOM.
5. NEW HOISTWAY DOOR PANELS. EXISTING STAINLESS STEEL ENTRANCE FRAMES AND THRESHOLDS TO REMAIN. AT COMPLETION OF PROJECT, CLEAN STAINLESS STEEL ENTRANCE FRAMES AND CLEAN AND RESTORE THE THRESHOLDS TO BE SMOOTH AND FULLY FINISHED IN THEIR APPEARANCE.
6. REMOVE EXISTING FIREFIGHTERS SERVICE SWITCH AND PROVIDE NEW FIREFIGHTERS SERVICE SWITCH.
7. NOT USED.
8. 12" VINYL SELF-ADHERING DECALS AT EACH LANDING, BLACK COLOR.
9. EXISTING WALL BASE TO REMAIN, TYPICAL.
10. PATCH, REPAIR AND FINISH ALL EXISTING WALLS AS REQUIRED FOR REPLACEMENT OF ALL CONTROLS AND INDICATORS.
11. BUFF, REPAIR AND CLEAN, EXISTING STAINLESS STEEL HOISTWAY ENTRANCE JAMBS.
12. 3" VINYL SELF-ADHERING DECALS AT EACH , BLACK COLOR.



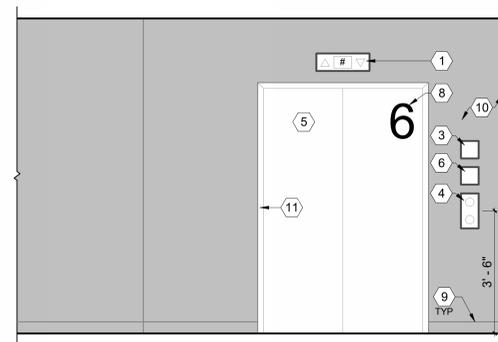
1 ELEVATION - LIBERTY 1,2,3 - TYPICAL  
1/2" = 1'-0"



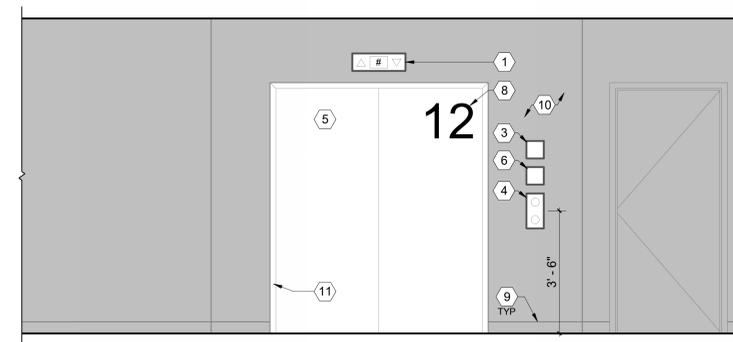
2 ELEVATION - INDEPENDENCE 4 - TYPICAL  
1/2" = 1'-0"



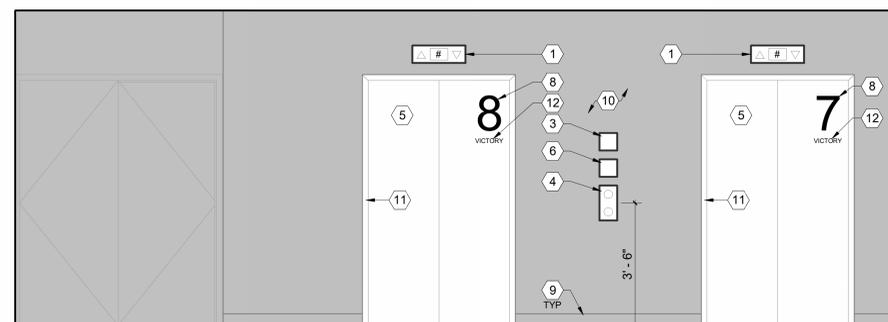
3 ELEVATION - INDEPENDENCE 5 - TYPICAL  
1/2" = 1'-0"



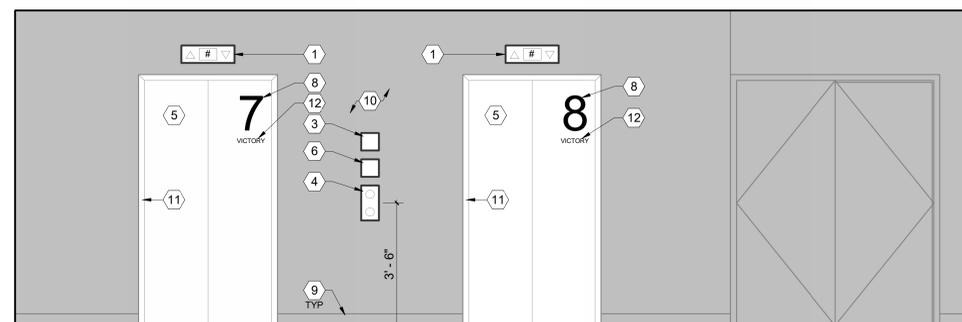
9 ELEVATION - ELEVATOR 6 - TYPICAL  
1/2" = 1'-0"



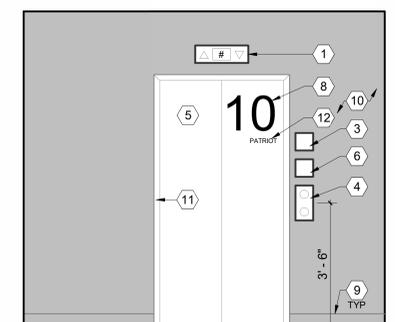
8 ELEVATION - ELEVATOR 12 - TYPICAL  
1/2" = 1'-0"



6 ELEVATION - VICTORY ELEVATOR 7,8 NORTH - TYPICAL  
1/2" = 1'-0"



7 ELEVATION - VICTORY ELEVATOR 7,8 SOUTH - TYPICAL  
1/2" = 1'-0"



5 ELEVATION - PATRIOT ELEVATOR 10 - TYPICAL  
1/2" = 1'-0"

**CONSULTANTS:**

**SUMMIT**  
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575 MINNEHAHA AVE WEST  
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Drawing Title  
**INTERIOR ELEVATIONS - LOBBIES**

Approved: Project Director  
**FARGO VAMC**

Project Title  
**REFURBISH ELEVATORS AND  
REPLACE CONTROLS**

Location  
**2101 ELM STREET  
FARGO, ND 58102**

Project Number  
**437-22-101**

Building Number  
**1,946**

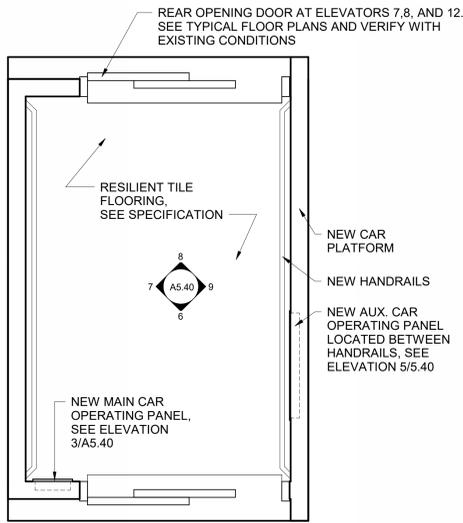
Drawing Number  
**A5.30**  
Dwg. 13 of 41

Office of  
Construction  
and Facilities  
Management

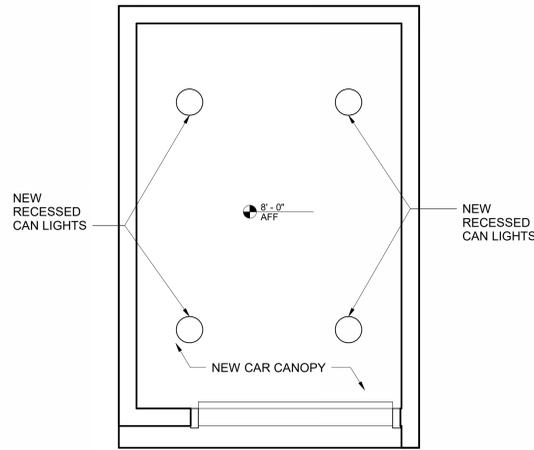


**GENERAL NOTES:**

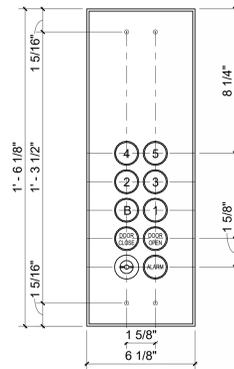
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1 ENLARGED FLOOR PLAN - TYPICAL ELEVATOR CAB  
3/4" = 1'-0"

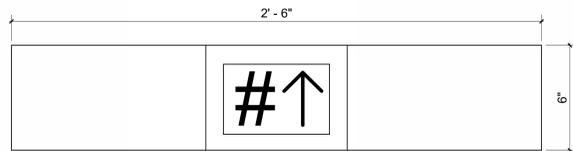


2 ENLARGED REFLECTED CEILING PLAN - TYPICAL ELEVATOR CAB  
3/4" = 1'-0"

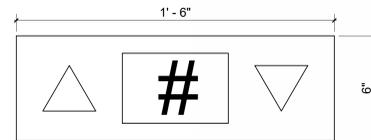


NOTE: PASSENGER ELEVATORS 1-8, 10, AND 12  
1. ADJUST CONTROL BUTTONS FOR ELEVATORS WITH LESS FLOORS.  
2. PROVIDE REAR OPENING BUTTONS WHERE APPLICABLE.  
3. PROVIDE COORESPONDING BRAILLE AT EACH BUTTON.  
4. SEE FLOOR PLAN NOTES FOR KEYED ACCESS.

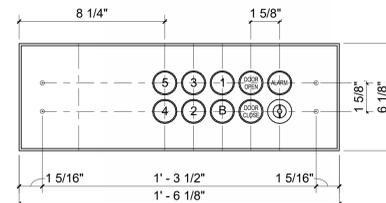
3 TYPICAL ELEVATOR OPERATING PANEL ELEVATIONS VERTICAL  
3" = 1'-0"



4 HALL POSITION INDICATOR ELEVATIONS  
3" = 1'-0"

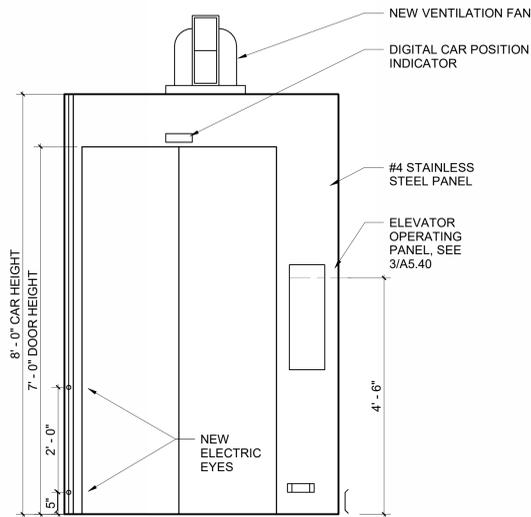


NEW HALL POSITION INDICATORS AT PASSENGER ELEVATORS 1-8, 10, AND 12; STAINLESS STEEL DIGITAL

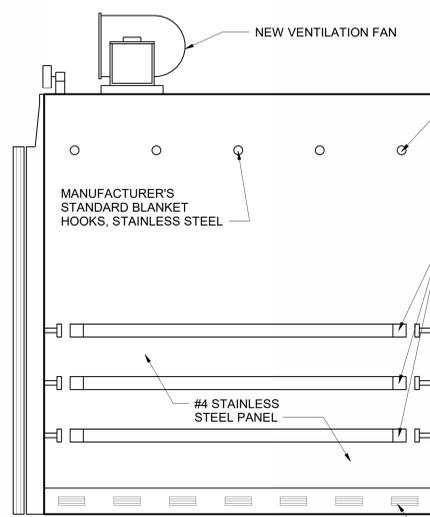


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3. PROVIDE COORESPONDING BRAILLE AT EACH BUTTON.  
4. SEE FLOOR PLAN NOTES FOR KEYED ACCESS.

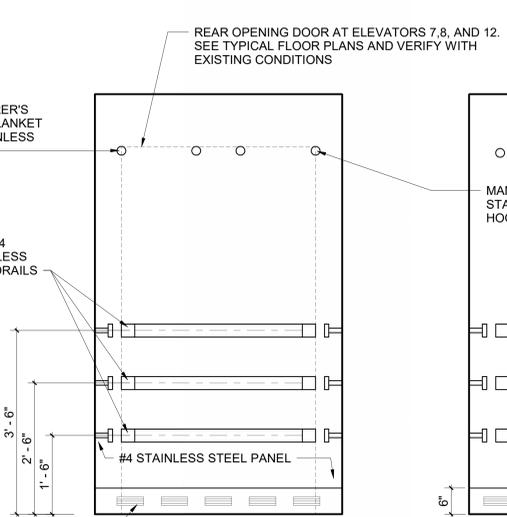
5 TYPICAL ELEVATOR OPERATING PANEL ELEVATION HORIZONTAL  
3" = 1'-0"



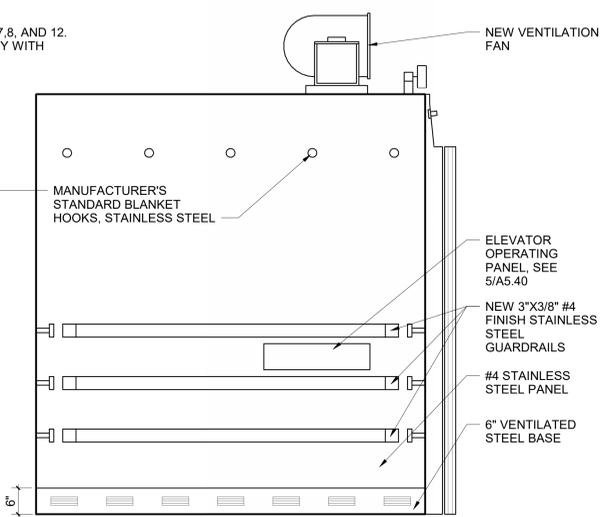
6 TYPICAL ELEVATOR CAB ELEVATION - DOOR  
3/4" = 1'-0"



7 TYPICAL ELEVATOR CAB ELEVATION - LEFT  
3/4" = 1'-0"



8 TYPICAL ELEVATOR CAB ELEVATION - BACK  
3/4" = 1'-0"



9 TYPICAL ELEVATOR CAB ELEVATION - RIGHT  
3/4" = 1'-0"

CONSULTANTS:

SUMMIT FIRE PROTECTION  
575 MINNEHAHA AVE WEST  
ST. PAUL, MINNESOTA 55103  
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Drawing Title  
ELEVATOR CAR ENCLOSURE PLANS AND ELEVATIONS

Approved: Project Director  
FARGO VAMC

Project Title  
REFURBISH ELEVATORS AND REPLACE CONTROLS

Location  
2101 ELM STREET  
FARGO, ND 58102

Project Number  
437-22-101  
Building Number  
1,946

Drawing Number  
A5.40

Office of Construction and Facilities Management



**ABBREVIATIONS:**

AC	ALTERNATING CURRENT	MECH	MECHANICAL
ADJ.	ADJUSTABLE	MFG	MANUFACTURER
AHJ	AUTHORITY HAVING JURISDICTION	MIN	MINIMUM
AHU	AIR HANDLING UNIT	MIN	MINUTE
AS	AIR SEPARATOR	mm	MILLIMETER
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	MPS	MEDIUM PRESSURE STEAM
BHP	BRAKE HORSEPOWER	MT	MOISTURE (HUMIDITY) TRANSMITTER
BMS	BUILDING MANAGEMENT SYSTEM	NV	NORMAL VENT
CALC	CALCULATED	N.C.	NORMALLY CLOSED
CC	CHILLED WATER COOLING COIL - AHU	NC	NOISE CRITERIA LEVEL
CD	CONDENSATE DRAIN	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CFM	CUBIC FEET PER MINUTE	NG	NATURAL GAS
CHWR	CHILLED WATER RETURN	N.O.	NORMALLY OPEN
CHWS	CHILLED WATER SUPPLY	NPT	NATIONAL PIPE THREAD
CL	CENTERLINE	OA	OUTSIDE AIR
CO	CLEANOUT	OAT	OUTSIDE AIR TEMPERATURE
COEF	COEFFICIENT	ORD	OVERFLOW ROOF DRAIN
COMLINK	COMMUNICATION LINK	OSA	OUTSIDE AIR
COND	CONDENSATION	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
CONFIG	CONFIGURED	Pa	PASCAL
COR	CONTRACTING OFFICER'S REPRESENTATIVE	PC	PUMPED CONDENSATE
CNTRL.	CONTROL	PC	PREHEAT STEAM COIL - AHU
CP	CONDENSATE PUMP	PD	PRESSURE DROP
CPVC	CHLORINATED POLYVINYL CHLORIDE	PDS	PRESSURE DIFFERENTIAL SENSOR
CR	CONDENSATE RETURN	PH	PHASE
CV	CONTROL VALVE	PI	PROPORTIONAL INTEGRAL
CV	FLOW COEFFICIENT	PID	PROPORTIONAL INTEGRAL DERIVATIVE
DAMP.	DAMPER	PRESS.	PRESSURE
DAT	DISCHARGE AIR TEMPERATURE	PSH	HIGH PRESSURE SWITCH
DB	DRY BULB	PSIG	POUNDS PER SQUARE INCH - GAUGE
DC	DIRECT CURRENT	PSL	LOW PRESSURE SWITCH
DCW	DOMESTIC COLD WATER	QUANT.	QUANTITY
DEG	DEGREES	R	RADIUS
DHR	DOMESTIC HOT WATER RETURN	R	RETURN
DHW	DOMESTIC HOT WATER	RA	RETURN AIR
DIFF.	DIFFERENTIAL	RC	REHEAT STEAM COIL - AHU
DIST	DISTRIBUTION	RD	ROOF DRAIN
DS	DOWNSPOUT	RE	RESIDENT ENGINEER
DSP	DEHUMIDIFICATION SET POINT	RFR	REFRIGERANT RETURN
DVV	DRAIN, WASTE AND VENT	RFS	REFRIGERANT SUPPLY
(E)	EXISTING	REQ'D	REQUIRED
EA	EXHAUST AIR	RH	RELATIVE HUMIDITY
ECC	ENERGY CONTROL CENTER	RPM	REVOLUTIONS PER MINUTE
ELECT.	ELECTRICAL	S	SUPPLY
ELEV	ELEVATION	SA	SUPPLY AIR
ENT	ENTERING	SAN	SANITARY
ERC	ENERGY RECOVERY COIL - AHU	SD	SMOKE DAMPER
ES	END SWITCH	SF	FAN SECTION - AHU
EWC	ELECTRIC WATER COOLER	SF	SQUARE FEET
F	FAHRENHEIT	SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS ASSOCIATION
FD	FLOOR DRAIN	SP	STATIC PRESSURE
FILT.	FILTER	SPEC	SPECIFICATION
FPM	FEET PER MINUTE	SS	STAINLESS STEEL
FT	FEET	SST	START/STOP
GAL	GALLONS	SUH	STEAM UNIT HEATER
GALV	GALVANIZED	SV	STEAM VALVE
G.C.	GENERAL CONTRACTOR	SV	STEAM VENT
GPM	GALLONS PER MINUTE	T	THERMOSTAT
GT	GLYCOL TANK	TEMP.	TEMPERATURE
H	HEIGHT	TSP	TOTAL STATIC PRESSURE
H	HUMIDIFIER - AHU	TT	TEMPERATURE SENSOR/TRANSMITTER
HP	HORSEPOWER	TYP	TYPICAL
HPS	HIGH PRESSURE STEAM	UH	UNIT HEATER
HR	HOUR	V	VENT
HRCR	HEAT RECOVERY RETURN	V	VOLTS
HRCS	HEAT RECOVERY SUPPLY	VAV	VARIABLE AIR VOLUME
HRP	HEAT RECOVERY PUMP	VFD	VARIABLE FREQUENCY DRIVE
HSP	HUMIDIFICATION SET POINT	VSMC	VARIABLE SPEED MOTOR CONTROLLER
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING	VTR	VENT THROUGH ROOF
HX	HEAT EXCHANGER	W	WIDTH
HZ	HERTZ	W/	WITH
IBC	INTERNATIONAL BUILDING CODE	WB	WET BULB
ICVAMC	IOWA CITY VETERANS AFFAIRS MEDICAL CENTER	WG	INCHES OF WATER
IECC	INTERNATIONAL ENERGY CONSERVATION CODE	ZAT	ZONE AIR TEMPERATURE
IFB	INTEGRAL FACE AND BYPASS	ZC	VALVE OR DAMPER CONTROLLER
IMC	INTERNATIONAL MECHANICAL CODE		
IO	INPUT/OUTPUT		
IPC	INTERNATIONAL PLUMBING CODE		
K.O.	COMMANDING OFFICER		
L	LENGTH		
LBS	POUNDS		
LPS	LOW PRESSURE STEAM		
LWA	SOUND POWER LEVEL		
MAX	MAXIMUM		
MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR		
MC	MECHANICAL CONTRACTOR		
MD	MOTORIZED DAMPER		

**HVAC / MECHANICAL SYMBOLS**

	SUPPLY AIR DUCT FROM AHU		VARIABLE AIR VOLUME BOX (VAV) / TERMINAL UNIT (TU)		HOT WATER SUPPLY
	SUPPLY AIR DUCT FROM VAV		WALL MOUNTED EXHAUST FAN		HOT WATER RETURN
	FRESH AIR DUCT FROM ERV		DUCT HOT WATER REHEAT COIL		REHEAT HOT WATER SUPPLY
	OUTSIDE AIR DUCT TO AHU OR ERV		REHEAT HOT WATER RETURN		PERIMETER HEATING WATER SUPPLY
	EXHAUST AIR DUCT TO AHU		PERIMETER HEATING WATER RETURN		CHILLED WATER SUPPLY
	EXHAUST AIR DUCT TO EXTERIOR		CHILLED WATER RETURN		REFRIGERANT - LIQUID
	VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH VANES EVEN IF SYMBOL IS MISSING)		REFRIGERANT - SUCTION		LOW PRESSURE STEAM
	VANED RADIUS ELBOW (SHORT RADIUS)		MEDIUM PRESSURE STEAM		HIGH PRESSURE STEAM
	RADIUS ELBOW (SHORT RADIUS)		LOW PRESSURE STEAM CONDENSATE RETURN		LOW PRESSURE STEAM CONDENSATE RETURN
	RECTANGULAR DUCT (INSIDE DIMENSIONS: WIDTH / DEPTH)		MEDIUM PRESSURE STEAM CONDENSATE RETURN		HIGH PRESSURE STEAM CONDENSATE RETURN
	OVAL DUCT (INSIDE DIMENSIONS: WIDTH / DEPTH)		PUMPED STEAM CONDENSATE RETURN		STEAM BUCKET TRAP
	ROUND DUCT (INSIDE DIMENSIONS: WIDTH / DEPTH)		FLOAT & THERMOSTATIC TRAP		STEAM THERMOSTATIC TRAP
	SUPPLY DUCT UP		STRAINER		UNION
	SUPPLY DUCT DOWN		CONCENTRIC PIPE REDUCER		ECCENTRIC PIPE REDUCER
	RETURN DUCT UP		PIPE ELBOW		PIPE TEE
	RETURN DUCT DOWN		PIPE DOWN		PIPE UP
	EXHAUST DUCT UP		PIPE TEE DOWN		PIPE TEE UP
	EXHAUST DUCT DOWN		MOTORIZED DAMPER W/ ACCESS DOOR		MECHANICAL PLAN NOTE
	FIRE DAMPER W/ ACCESS DOOR		FIRE AND SMOKE DAMPER W/ ACCESS DOOR		THERMOSTAT
	SMOKE DAMPER W/ ACCESS DOOR		BACKDRAFT DAMPER W/ ACCESS DOOR		TEMPERATURE SENSOR
	MOTORIZED DAMPER W/ ACCESS DOOR		GRILLE / REGISTER / DIFFUSER TAG W/ CFM		PRESSURE SENSOR
	FIRE AND SMOKE DAMPER W/ ACCESS DOOR		GRILLE / REGISTER / DIFFUSER TAG W/ CFM		DIFFERENTIAL PRESSURE SENSOR
	SMOKE DAMPER W/ ACCESS DOOR		GRILLE / REGISTER / DIFFUSER TAG W/ CFM		HUMIDITY SENSOR
	BACKDRAFT DAMPER W/ ACCESS DOOR		GRILLE / REGISTER / DIFFUSER TAG W/ CFM		
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	MOTORIZED DAMPER W/ ACCESS DOOR		GRILLE / REGISTER / DIFFUSER TAG W/ CFM		
	FIRE AND SMOKE DAMPER W/ ACCESS DOOR		GRILLE / REGISTER / DIFFUSER TAG W/ CFM		
	SMOKE DAMPER W/ ACCESS DOOR		GRILLE / REGISTER / DIFFUSER TAG W/ CFM		
	BACKDRAFT DAMPER W/ ACCESS DOOR		GRILLE / REGISTER / DIFFUSER TAG W/ CFM		
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	SMOKE DAMPER W/ ACCESS DOOR		GRILLE / REGISTER / DIFFUSER TAG W/ CFM		





**ABBREVIATIONS:**

AHU	AIR HANDLING UNIT	MD	MOTORIZED DAMPER
AP	ACCESS PANEL	MECH	MECHANICAL
AS	AIR SEPARATOR	MFG	MANUFACTURER
A/G	ABOVE GRADE	MIN	MINIMUM
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	MIN	MINUTE
		mm	MILLIMETER
BMS	BUILDING MANAGEMENT SYSTEM	MPS	MEDIUM PRESSURE STEAM
B/G	BELOW GRADE	MT	MOISTURE (HUMIDITY) TRANSMITTER
		MV	MANUAL VENT
CD	CONDENSATE DRAIN	N.C.	NORMALLY CLOSED
CFM	CUBIC FEET PER MINUTE	NC	NOISE CRITERIA LEVEL
CO	CLEANOUT	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
COND	CONDENSATION	NG	NATURAL GAS
COR	CONTRACTING OFFICER'S REPRESENTATIVE	NPT	NATIONAL PIPE THREAD
CP	CIRCULATING PUMP		
CR	CONDENSATE RETURN	OA	OUTSIDE AIR
CV	CONTROL VALVE	OAT	OUTSIDE AIR TEMPERATURE
DAMP.	DAMPER	OE	ORAL EVACUATION
DAT	DISCHARGE AIR TEMPERATURE	ORD	OVERFLOW ROOF DRAIN
DB	DRY BULB	OSA	OUTSIDE AIR
DCW	DOMESTIC COLD WATER	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
DE	DEIONIZED WATER	OXY	OXYGEN
DEG	DEGREES		
DHW-R	DOMESTIC HOT WATER RETURN	Pa	PASCAL
DHW	DOMESTIC HOT WATER	PC	PUMPED CONDENSATE
DIFF.	DIFFERENTIAL	PC	PREHEAT STEAM COIL - AHU
DIST	DISTRIBUTION	PD	PRESSURE DROP
DS	DOWNSPOUT	PDS	PRESSURE DIFFERENTIAL SENSOR
DVV	DRAIN, WASTE AND VENT		
(E)	EXISTING	PH	PHASE
EA	EXHAUST AIR	PI	PROPORTIONAL INTEGRAL
ECC	ENERGY CONTROL CENTER	PID	PROPORTIONAL INTEGRAL DERIVATIVE
EEW	EMERGENCY EYE WASH	PRESS.	PRESSURE
ELECT.	ELECTRICAL	PSH	HIGH PRESSURE SWITCH
ELEV.	ELEVATION		
ERC	ENERGY RECOVERY COIL - AHU	PSIG	POUNDS PER SQUARE INCH - GAUGE
ESH	EMERGENCY SHOWER	PSL	LOW PRESSURE SWITCH
EWC	ELECTRIC WATER COOLER	QUANT.	QUANTITY
F	FAHRENHEIT	R	RADIUS
FD	FLOOR DRAIN	R	RETURN
FS	FLOOR SINK	RA	REHEAT AIR
FILT.	FILTER	RC	REHEAT STEAM COIL - AHU
FPM	FEET PER MINUTE	RD	ROOF DRAIN
FT	FEET	REQ'D	REQUIRED
		RPM	REVOLUTIONS PER MINUTE
GAL	GALLONS	S	SINK
G.C.	GENERAL CONTRACTOR	SA	SUPPLY AIR
GPM	GALLONS PER MINUTE	SAN	SANITARY
GT	GLYCOL TANK	SCW	SOFT COLD WATER
		SD	SMOKE DAMPER
H	HEIGHT	SF	FAN SECTION - AHU
H	HUMIDIFIER - AHU	SF	SQUARE FEET
HB	HOSE BIBB	SH	SHOWER
HP	HORSEPOWER	SP	STATIC PRESSURE
HPS	HIGH PRESSURE STEAM	SPEC	SPECIFICATION
HR	HOUR	SS	SANITARY SEWER
HRP	HEAT RECOVERY PUMP	SST	START/STOP
HSP	HUMIDIFICATION SET POINT	SV	STEAM VENT
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING		
HX	HEAT EXCHANGER	T	THERMOSTAT
HYL	HYDRAULIC OIL	TEMP.	TEMPERATURE
HYL-D	HYDRAULIC OIL DRAIN	TT	TEMPERATURE SENSOR/TRANSMITTER
HZ	HERTZ	TYP.	TYPICAL
IBC	INTERNATIONAL BUILDING CODE	UH	UNIT HEATER
IECC	INTERNATIONAL ENERGY CONSERVATION CODE		
IFB	INTEGRAL FACE AND BYPASS	V	VENT
IMC	INTERNATIONAL MECHANICAL CODE	VAV	VARIABLE AIR VOLUME
I/O	INPUT/OUTPUT	VFD	VARIABLE FREQUENCY DRIVE
IPC	INTERNATIONAL PLUMBING CODE	VSMC	VARIABLE SPEED MOTOR CONTROLLER
		VTR	VENT THROUGH ROOF
L	LENGTH	W	WITH
LA	LABORATORY EQUIPMENT COMPRESSED AIR	WB	WET BULB
LAV	LAVATORY	WC	WATER CLOSET
LV	LABORATORY EQUIPMENT VACUUM	WD	WATER DISPENSER
LBS	POUNDS		
LPS	LOW PRESSURE STEAM	ZAT	ZONE AIR TEMPERATURE
MA	MEDICAL AIR	ZC	VALVE OR DAMPER CONTROLLER
MAX	MAXIMUM		
MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR		
MC	MECHANICAL CONTRACTOR		

**PLUMBING SYMBOLS**

	3-WAY CONTROL VALVE		BALL VALVE
	2-WAY CONTROL VALVE		PLUG VALVE
	CHECK VALVE		TEMPERATURE SENSOR
	THERMOSTATIC MIXING VALVE		TRIPLE DUTY VALVE
	PRESSURE REDUCING VALVE		VACUUM BREAKER
	REDUCED PRESSURE ZONE VALVE		TEST PORT
	PRESSURE RELIEF VALVE		HAMMER ARRESTOR
	SOLENOID VALVE		PIPE UNION
	PRESSURE GAUGE		PIPE ELBOW
	THERMOMETER		PIPE DOWN
	PUMP		PIPE UP
	STEAM TRAP		PIPE TEE DOWN
	STRAINER		TEE
	CONCENTRIC REDUCER		PLUMBING PLAN NOTE
	CONNECT		

**PLUMBING SHEET INDEX**

P0.00	PLUMBING ABBREVIATIONS, SYMBOLS, LEGENDS, AND GENERAL NOTES
P1.00	PLUMBING PLANS AND SECTIONS
P2.00	PLUMBING ISOMETRIC VIEWS
P5.00	PLUMBING DETAILS AND SCHEDULES

**GENERAL PLUMBING NOTES:**

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE (IBC), INTERNATIONAL MECHANICAL CODE (IMC), INTERNATIONAL PLUMBING CODE (IPC), INTERNATIONAL FUEL GAS CODE (IFGC), NFPA 101 LIFE SAFETY CODE, AND ANY AUTHORITY HAVING JURISDICTION. THIS IS A FEDERAL PROJECT, AS SUCH ALL CODE REQUIREMENTS ARE REQUIRED.

ALL EQUIPMENT, MATERIALS, AND ARTICLES INCORPORATED IN THE WORK SHALL BE NEW AND OF COMPARABLE QUALITY AS SPECIFIED. ALL WORKMANSHIP SHALL BE FIRST-CLASS AND SHALL BE PERFORMED BY MECHANICS SKILLED AND REGULARLY EMPLOYED IN THEIR RESPECTIVE TRADES.

ALL WORK SHALL BE COORDINATED WITH ALL AFFECTED TRADES PRIOR TO STARTING WORK. REWORK REQUIRED DUE TO COORDINATION ISSUES SHALL BE DONE BY THE INSTALLATION CONTRACTOR WITHOUT INCREASED COST TO THE OWNER. CONTRACTOR TO COORDINATE WITH THE OWNER PRIOR TO WORK FOR SCHEDULING OR ANY UTILITY SHUT DOWN.

THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE. ALTHOUGH EVERY ATTEMPT HAS BEEN MADE TO INDICATE THE EXACT ROUTING AND LOCATION OF PROPOSED SYSTEMS, NOT ALL OFFSETS, REQUIRED FITTINGS AND/OR CONDITIONS CAN BE SHOWN. THE CONTRACTOR SHALL COORDINATE WORK AND MAKE REQUIRED CHANGES TO THE ROUTING IN ORDER TO AVOID CONFLICTS WITHOUT ANY INCREASED COST TO THE OWNER.

SYSTEMS DESIGNATED TO BE PROVIDED AND INSTALLED WITHIN THESE CONTRACT DOCUMENTS ARE INTENDED TO BE COMPLETE AND OPERATIONAL. PROVIDE EVERYTHING ESSENTIAL FOR THE COMPLETION OF THE WORK TO MAKE THE SYSTEM READY FOR NORMAL AND PROPER OPERATION, INCLUDING ALL WORK OR MATERIALS NOT DIRECTLY SHOWN ON THE DRAWINGS OR IN THE SPECIFICATIONS, BUT NECESSARY FOR THE PROPER OPERATION OF THE SYSTEM.

PLUMBING CONTRACTOR IS RESPONSIBLE FOR ENSURING PROPER MAINTENANCE CLEARANCES ARE MAINTAINED. CLOSE COORDINATION WILL BE REQUIRED WITH THE MECHANICAL PIPING, HVAC, FIRE PROTECTION, AND ELECTRICAL CONTRACTOR.

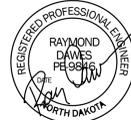
ALL DOMESTIC WATER PIPING ABOVE GRADE IS INTENDED TO BE INSULATED, TYPE K OR L HARD DRAWN COPPER PIPE AS SPECIFIED. TYPE M COPPER PIPE IS NOT ALLOWED.

ALL WASTE AND VENT PIPING ABOVE GRADE IS INTENDED TO BE CAST IRON OR DUCTILE IRON AS SPECIFIED. PVC IS NOT ALLOWED ABOVE GRADE. ALL WASTE AND VENT PIPING BELOW GRADE IS INTENDED TO BE EPOXY COATED STEEL AS SPECIFIED. CAST IRON OR OTHER METAL PIPING IS NOT ALLOWED BELOW GRADE.

FOR PIPE SIZES NOT SHOWN ON FLOOR PLANS SEE PIPING ISOMETRIC DRAWINGS.

**CONSULTANTS:**

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Drawing Title <b>PLUMBING ABBREVIATIONS, SYMBOLS, LEGENDS, AND GENERAL NOTES</b>		Project Title <b>REFURBISH ELEVATORS AND REPLACE CONTROLS</b>		Project Number 437-22-101 Building Number <b>1,9,46</b>	
Approved: Project Director <b>FARGO VAMC</b>		Location <b>2101 ELM STREET FARGO, ND 58102</b>		Drawing Number <b>P0.00</b>	
Date 12.20.22	Checked RD	Drawn BM	Dwg. 17 of 41		

**Office of Construction and Facilities Management**









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

### ELECTRICAL LEGEND (FLOORPLAN)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	ITEMS SHOWN IN GRAY ARE EXISTING TO REMAIN DASHED ITEMS ARE INSTALLED BELOW REFERENCED PLAN		NURSE CALL STATION D = DUTY STATION, MTD 5' AFF E = MTD 6' AFF FOR SHOWER LOCATION M = MTD 4'-6" AFF FOR TUB LOCATION M = MTD 3' AFF FOR TOILET LOCATION P = PSYCHIATRIC CORRIDOR STATION WITH KEY SWITCH S = AUDIO VISUAL STATION MTD 5' AFF U = UTILITY CALL STATION, MTD 5' AFF
	DEMOLITION PLANS: SOLID DARK ITEMS ARE TO BE REMOVED OR MODIFIED. NEW PLANS: SOLID DARK ITEMS ARE TO BE ADDED OR MODIFIED.		NURSE CALL STATION D = CORRIDOR DOME LIGHT MTD 6' ABOVE DOOR I = AUXILIARY INTERSECTIONAL DOME LIGHT
	MOTOR, SINGLE-PHASE		TELECOMMUNICATIONS TERMINAL CABINET
	TRANSFORMER		ELECTRIC POWER HINGE
	WYE CONNECTION		DOOR CONTACT
	DUCT, CELL FLOOR HEADER		MOTION INTRUSION DETECTOR
	DUCT, TROLLEY		SECURITY SURVEILLANCE TELEVISION
	DUCT, UNDERFLOOR JUNCTION BOX		RECTIFIER, CATHODIC PROTECTION SANITARY
	EARTH GROUND		VENTILATOR OR FAN COIL UNIT OUTLET
	JUNCTION BOX		CONDUIT TERMINATED 6" (152mm) AFF IN STANDARD BOX FOR EXTENSION TO EQUIPMENT AS DIRECTED.
	LADDER CABLE TRAY		CONDUIT TERMINATED W/COUPLING (FLUSH W/FINISHED FLOOR) FOR EXTENSION TO EQUIPMENT AS DIRECTED.
	BRANCH CIRCUIT HOMERUN. LINES INDICATE NUMBER OF CIRCUITS, NEUTRAL, AND SWITCH LEG CONDUCTORS. ONE SEPARATE GREEN GROUNDING CONDUCTOR SHALL BE PROVIDED FOR EACH HOMERUN; NOT SHOWN		CARD ACCESS READER; LETTER INDICATES AS FOLLOWS: W-WALL C-CEILING D-DESK F-FLUSH H-HIDDEN M-MULLION P-PEDESTAL R-RACK S-SURFACE T-TECHNOLOGY/TYPE B-BARCODE M-MAG STRIP F-ELEVATOR FLOOR CALL P-PROXIMITY H-ELEVATOR HALL CALL S-SMART CARD T-TOKEN
	WIREWAY		ELECTRONIC LOCK; LETTER INDICATES AS FOLLOWS: W-WALL C-CEILING D-DESK F-FLUSH H-HIDDEN M-MULLION P-PEDESTAL R-RACK S-SURFACE T-TECHNOLOGY/TYPE M-MOUNT S-SUBSTATION
	RIGID CONDUIT LINE = RC		INTERCOM; LETTER INDICATES AS FOLLOWS: M-MOUNT C-CEILING D-DESK F-FLUSH H-HIDDEN M-MULLION P-PEDESTAL R-RACK S-SURFACE T-TECHNOLOGY/TYPE
	DIRECT BURIAL CABLE = DB		SWITCH, THREE WAY DIMMER
	POWER DUCT = P		SWITCH, THREE WAY OCCUPANCY SENSOR
	AUDIO VISUAL LINE = AV		SWITCH, FOUR WAY
	CABLE TELEVISION LINE = CATV		SWITCH, DIMMER
	CLOSED CIRCUIT TELEVISION LINE = CCTV		SWITCH, DOOR JAMB
	FIBER OPTICS LINE = FO		SWITCH, FOUR WAY OCCUPANCY SENSOR
	COMMUNICATIONS LINE = COM		SWITCH, FUSED
	INTERCOM LINE = I		SWITCH, KEY OPERATED
	NURSE CALL LINE = NC		SWITCH, LOCK
	SUBSTATION		SWITCH, LOW VOLTAGE MASTER
	HI VOLTAGE SWITCH ON CONCRETE PAD		SWITCH, MANUAL MOTOR STARTING
	LOW VOLTAGE SWITCH ON CONCRETE PAD		SWITCH, MOMENTARY CONTACT
	DUAL POWER AND TELECOMMUNICATIONS MANHOLE		SWITCH, MOTOR SNAP WITH PILOT LIGHT (THERMAL TYPE)
	BUSWAY		SWITCH, OCCUPANCY SENSOR
	DISTRIBUTION PANEL		SWITCH, WITH PILOT LIGHT
	LIGHTING PANEL		SWITCH, PUSH BUTTON
	PANEL BOARD CABINET, FLUSH MOUNTED		SWITCH, REMOTE CONTROL
	PANEL BOARD CABINET, SURFACE MOUNTED		SWITCH, WEATHER PROOF
	RECEPTACLE, CLOCK HANGER		SWITCH, EXPLOSION PROOF
	RECEPTACLE, DUPLEX		TELECOMMUNICATIONS MANHOLE
	RECEPTACLE, DUPLEX ON EMERGENCY POWER		COMMUNICATIONS FLOOR RECEPTACLE
	RECEPTACLE, GFCI DUPLEX		COMMUNICATIONS WALL RECEPTACLE
	RECEPTACLE, QUADRAPLEX		COMMUNICATIONS CEILING RECEPTACLE
	RECEPTACLE, SPECIAL PURPOSE 120V, 20A, 1 PHASE, 2-POLE, 3W, NEMA 5-20R		TELEVISION FLOOR RECEPTACLE C = CAMERA (CCTV SYSTEM) M = MONITOR (CATV SYSTEM) AV = AUDIO VISUAL (CONFERENCE ROOM CONNECTION RECEPTABLES)
	RECEPTACLE, SPECIAL PURPOSE 208V, 20A, 1 PHASE, 2-POLE, 3W, NEMA 6-20R		TELEVISION WALL RECEPTACLE C = CAMERA (CCTV SYSTEM) M = MONITOR (CATV SYSTEM) AV = AUDIO VISUAL (CONFERENCE ROOM CONNECTION RECEPTABLES)
	RECEPTACLE, SPECIAL PURPOSE 120V, 30A, 1 PHASE, 2-POLE, 3W, NEMA 5-30R		TELEVISION CEILING RECEPTACLE C = CAMERA (CCTV SYSTEM) M = MONITOR (CATV SYSTEM) AV = AUDIO VISUAL (CONFERENCE ROOM CONNECTION RECEPTABLES)
	RECEPTACLE, SPECIAL PURPOSE 208V, 30A, 1 PHASE, 2-POLE, 3W, NEMA 6-30R		PAGING SPEAKER, CEILING MOUNTED
	RECEPTACLE, SPECIAL PURPOSE 208V, 60A, 1 PHASE, 3-POLE, 4W, NEMA 14-60R		PAGING SPEAKER, WALL MOUNTED
	RECEPTACLE, SPECIAL PURPOSE 208V, 30A, 3 PHASE, 3-POLE, 4W, NEMA 15-30R		NURSE'S CALL MASTER STATION
	RECEPTACLE, SPECIAL PURPOSE 208V, 50A, 3 PHASE, 3-POLE, 4W, NEMA 15-50R		NURSE CALL TERMINAL CABINET
	RECEPTACLE, SPECIAL PURPOSE 208V, 60A, 3 PHASE, 3-POLE, 4W, NEMA 15-60R		
	RECEPTACLE, SPECIAL PURPOSE 208V, 20A, 3 PHASE, 3-POLE, 4W, NEMA 15-20R		

### ELECTRICAL LEGEND (DETAILS)

SYMBOL	DESCRIPTION
	DELTA CONNECTION
	MOTOR, SINGLE-PHASE
	MOTOR, THREE-PHASE
	TRANSFORMER
	WYE CONNECTION
	EARTH GROUND
	JUNCTION BOX
	PULL BOX
	PRESSURE SWITCH-CLOSE ON INCREASE
	PRESSURE SWITCH-OPEN ON INCREASE
	SWITCH, MULTIPosition
	SWITCH, NORMALLY CLOSED FLOAT
	SWITCH, NORMALLY CLOSED FOOT OPERATED
	SWITCH, NORMALLY CLOSED LIMIT
	SWITCH, NORMALLY CLOSED TEMPERATURE ACTIVATED
	SWITCH, NORMALLY CLOSED TIME DELAY
	SWITCH, NORMALLY OPEN FLOAT
	SWITCH, NORMALLY OPEN LIMIT
	SWITCH, NORMALLY OPEN TEMPERATURE ACTIVATED
	SWITCH, NORMALLY OPEN TIME DELAY
	SWITCH, SINGLE BREAK
	NORMALLY CLOSED RELAY CONTACT
	NORMALLY OPEN RELAY CONTACT
	FUSE WITH RATING
	MOLDED CASE CIRCUIT BREAKER
	LOW-VOLTAGE DRAWOUT AIR CIRCUIT BREAKER
	HIGH-VOLTAGE OIL CIRCUIT BREAKER
	HIGH-VOLTAGE DRAWOUT AIR CIRCUIT BREAKER
	SWITCH AND FUSE UNIT
	FUSED DRAWOUT POTENTIAL TRANSFORMER
	INSTANTANEOUS OVERCURRENT RELAY
	AC-TIME OVERCURRENT RELAY
	AC-DIRECTIONAL OVERCURRENT RELAY
	LOCKING OUT RELAY
	DISCONNECT SWITCH, FUSED
	FUSIBLE LINK
	STARTER, COMBINATION WITH DISCONNECT SWITCH
	STARTER OR MOTOR CONTROLLER
	GENERATOR, POWER
	BATTERY
	CAPACITOR
	POTHEAD
	STRESS CONE
	LIGHTNING ARRESTOR
	RECTIFIER, CATHODIC PROTECTION SANITARY
	METER
	AMMETER
	VOLTMETER
	WATTMETER
	WATT-HOUR METER

### ELECTRICAL ABBREVIATIONS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
1PH	SINGLE-PHASE	ELEC	ELECTRIC OR ELECTRICAL
2/C	TWO-CONDUCTOR	ELEV	ELEVATOR
3/C	THREE-CONDUCTOR	EMER	EMERGENCY MONITORING CONTROL PANEL
3PH	THREE-PHASE	EMER	EMERGENCY
4/C	FOUR-CONDUCTOR	EMI	ELECTROMAGNETIC INTERFERENCE
4W	FOUR-WIRE	EMT	ELECTRICAL METALLIC TUBING
AAP	ALARM ANNUNCIATOR PANEL	ENCL	ENCLOSURE
ACC	ALTERNATING CURRENT OR ARMORED CABLE	EPO	EMERGENCY POWER OFF
ACC	ACCESSIBLE	EPRF	EXPLOSION PROOF
ADO	AUTOMATIC DOOR OPENER	ESMT	EASEMENT
AFC	ABOVE FINISHED COUNTER, AUTOMATIC FREQUENCY CONTROL, OR AVAILABLE FAULT CURRENT	EW	ELECTRIC WATER COOLER
AFG	ABOVE FINISHED FLOOR	EW	ELECTRIC WATER HEATER
AH	AMPERE HOUR	EXIST	EXISTING
AHJ	AUTHORITY HAVING JURISDICTION	FA	FIRE ALARM
AIC	AMPERE INTERRUPTING CAPACITY	FAAP	FIRE ALARM ANNUNCIATOR PANEL
AMP	AMPERE	FAB	FIRE ALARM BELL
ASC	AMPS SHORT CIRCUIT	FABX	FIRE ALARM BOX
AT	AMPERE TRIP	FACP	FIRE ALARM CONTROL PANEL
ATS	AUTOMATIC TRANSFER SWITCH	FC	FOOTCANDLE
AUTO	AUTOMATIC	FIX	FIXTURE
AV	AUDIO VISUAL	FLA	FULL LOAD AMPS
BAS	BUILDING AUTOMATION SYSTEM	FLX	FLEXIBLE METALLIC CONDUIT
BFF	BELOW FINISH FLOOR	FLT	FLOODLIGHT
BLDG	BUILDING	FLJ	FLUORESCENT
BPP	BOILER PLANT INSTRUMENTATION PANEL	FLJRX	FLUORESCENT FIXTURE
BRKR	BREAKER	FOUTT	TELEPHONE FLOOR OUTLET
BYP	BY PASS	FP	FIRE PROTECTION
C	CONDUIT	FT	FEET OR FOOT
CAB	CABINET	FU SW	FUSED SWITCH
CALC	CALCULATE	FV	FULL VOLTAGE NON-REVERSING
CAP	CAPACITY	FVR	FULL VOLTAGE REVERSING
CAT	CATEGORY	G OR GND	GROUND
CATV	COMMUNITY ANTENNA TELEVISION	GEN	GENERATOR
CCR	CONTROL CONTRACTOR	GENI	GROUND FAULT CIRCUIT INTERRUPTER
CD	CONSTRUCTION DOCUMENTS	GFI	GROUND FAULT INTERRUPTER
CD	CONTRACTOR FURNISHED	GFB	GROUNDING TERMINAL BOX
CF	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED	GTB	GROUNDING TERMINAL BOX
CF/CI	CONTRACTOR FURNISHED/OWNER INSTALLED	HD	HIGH INTENSITY DISCHARGE
CF/IO	CONTRACTOR FURNISHED/OWNER INSTALLED	HOA	HAND-OFF-AUTOMATIC
CHW	CHILLED WATER	HP	HORSEPOWER
CHWP	CHILLED WATER PUMP	HT	HEIGHT
Ckt BRKR	CIRCUIT BREAKER	HZ	HERTZ
CLF	CURRENT LIMITING FUSE	I	ILLUMINATION ENGINEERING SOCIETY OF NORTH AMERICA
CLG	CEILING	INC	INTERMEDIATE METAL CONDUIT
CMU	CONCRETE MASONRY UNIT	INCDAND	INCANDESCENT
COAX	COAXIAL CABLE	INF	INFRARED
COMM	COMMUNICATION	INH	INSTANTANEOUS WATER HEATER
CONC	CONCRETE	J-BOX	JUNCTION BOX
CONT	CONTINUE	KV	KILOVOLT
CONTR	CONTRACTOR	KVA	KILOVOLT AMPERE
COORD	COORDINATE	KVAR	KILOVOLT AMPERE REACTIVE
CRI	COLOR RENDERING INDEX	KW	KILOWATT
CT	CURRENT TRANSFORMER	KWH	KILOWATT HOUR
CTV	CABLE TELEVISION	KWHM	KILOWATT HOUR METER
CU	COPPER	LED	LIGHT EMITTING DIODE
CU FT	CUBIC FEET	LF	LINEAR FEET (FOOT)
CUR	CURRENT	LM	LUMEN
DAS	DISTRIBUTED ANTENNA SYSTEM	LPS	LOW PRESSURE SODIUM
DB	DECIBEL	LRA	LOCKED ROTOR AMPS
DC	DIRECT CURRENT	LTC	LOCAL TEMPERATURE CONTROL PANEL
DEG C	DEGREES CELSIUS	LT	LIGHT
DEG F	DEGREES FAHRENHEIT	LTG	LIGHTNING
DEMO	DEMOLITION	LTNG	LIGHTNING
DIAG	DIAGRAM	LV	LOW VOLTAGE
DISC	DISCONNECT	MATV	MASTER ANTENNA TELEVISION SYSTEM
DISTR	DISTRIBUTION	MAX	MAXIMUM
DISTR PNL	DISTRIBUTION PANEL	MC	METAL-CLAD
DNR SW	DIMMER SWITCH	MCA	MINIMUM CIRCUIT AMPS
DN	DOWN	MCB	MAIN CIRCUIT BREAKER
DPST	DOUBLE POLE, DOUBLE THROW	MCC	MOTOR CONTROL CENTER
DPST	DOUBLE POLE, SINGLE THROW	MDP	MAIN DISTRIBUTION PANEL
DRSW	DOOR SWITCH	MECH	MECHANICAL
DS	DISCONNECT SWITCH	MG	MOTOR GENERATOR
DWG	DRAWING	MH	MANHOLE
EC	EMPTY CONDUIT	MIN	MINIMUM
EG	EQUIPMENT GROUND	MOCPT	MAXIMUM OVERCURRENT PROTECTION
EL	ELEVATION	MLO	MARK LUGS ONLY
		MT	MOUNT
		MTD	MOUNTED
		MTS	MANUAL TRANSFER SWITCH
		MVA	MEGAVOLT-AMPERE
		MW	MEGAWATT MICROWAVE
		NA	NOT APPLICABLE
		NEC	NATIONAL ELECTRICAL CODE
		NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
		NEUT OR N	NEUTRAL
		NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
		NIC	NOT IN CONTRACT
		NL	NIGHT LIGHT
		NO	NORMALLY OPEN
		NS	NO SCALE
		NTS	NOT TO SCALE
		OC	ON CENTER
		OD	OUTSIDE DIAMETER
		OF	OWNER FURNISHED
		OF/CI	OWNER FURNISHED/CONTRACTOR INSTALLED
		OF/OI	OWNER FURNISHED/OWNER INSTALLED
		OS	OVERLOAD
		OS	OCCUPANCY SENSOR
		P	POLE
		PA	PUBLIC ADDRESS
		PAN	PANELBOARD, PULL BOX, OR PUSHBUTTON
		PPRU	PREFABRICATED BESIDE PATIENT UNIT
		PBC	POLYETHYLENE TEREPHTHALATE
		PEC	PHOTOELECTRIC CELL
		PED	PEDESTAL
		PEND	PENDANT
		PH	POWER FACTOR
		PNL	PANEL
		POT	POTENTIAL TRANSFORMER
		PTRV	POWER TOWER VENTILATION
		PVC	POLYVINYL CHLORIDE (PLASTIC)
		PWR	POWER
		RC	REFLECTED CEILING PLAN
		REC	RECEIVED
		RECPT	RECEPTACLE
		RMS	ROOM MEAN SQUARE
		RM	ROOM
		RMS	ROOM MEAN SQUARE
		REQD	REQUIRED
		SCC	SHORT CIRCUIT CAPACITY
		SES	SERVICE ENTRANCE SECTION
		SD	SMOKE DETECTOR
		SF	SQUARE FOOT (FEET)
		SHT	SHEET
		SI	INTERNATIONAL SYSTEM OF UNITS
		SPEC	SPECIFICATION
		SPST	SINGLE POLE, SINGLE THROW
		SW	SINGLE POLE, DOUBLE THROW
		SURF	SURFACE
		SW	SWITCH
		SWBD	SWITCHBOARD
		SWDG	SWITCHGEAR
		TC	TIME CLOCK
		TEL	TELEPHONE
		TP	TWISTED PAIR
		TPS	TWISTED PAIR SHIELDED
		TIB	TELEPHONE TERMINAL BOARD
		TV	TELEVISION
		TV	TYPICAL
		UF	UNDERFLOOR DUCT
		UGND	UNDERGROUND
		UL	UNDERWRITERS LABORATORY
		UN	UNLESS OTHERWISE NOTED
		UPS	UNINTERRUPTIBLE POWER SUPPLY
		UTIL	UTILITY
		V	VOLT
		VA	VOLT AMPERE
		VAR	VOLT AMPERE REACTIVE
		VFD	VARIABLE FREQUENCY DRIVE
		VOLT	VOLTAGE
		VS	VACUANCY SENSOR
		W	WATT
		WH	WATER HEATER
		WP	WEATHERPROOF
		XFER	TRANSFER
		XFMR	TRANSFORMER

Revisions:	Date

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Drawing Title  
ELECTRICAL LEGENDS AND ABBREVIATIONS

Approved: Project Director  
TODD DALZELL

Project Title  
REFURBISH FARGO ELEVATORS AND REPLACE CONTROLS

Project Number  
436-20-126

Building Number  
154

Location  
FARGO, NORTH DAKOTA

Date  
12/20/2022

Checked  
WW

Drawn  
JS

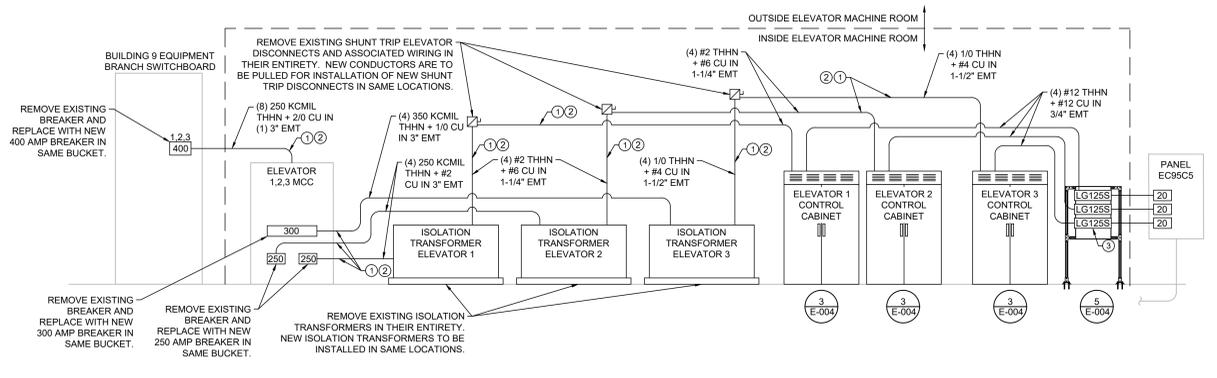
Drawing Number  
E-000

Dwg. 21 of 41

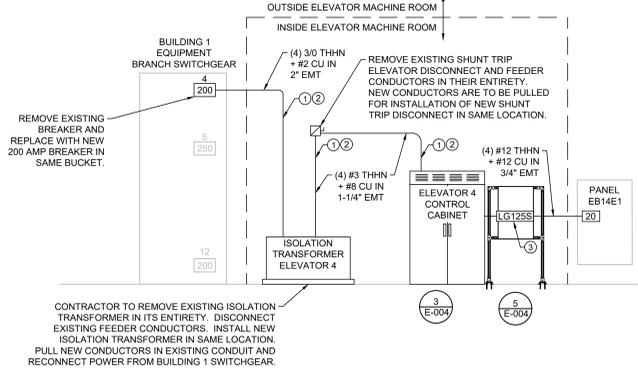




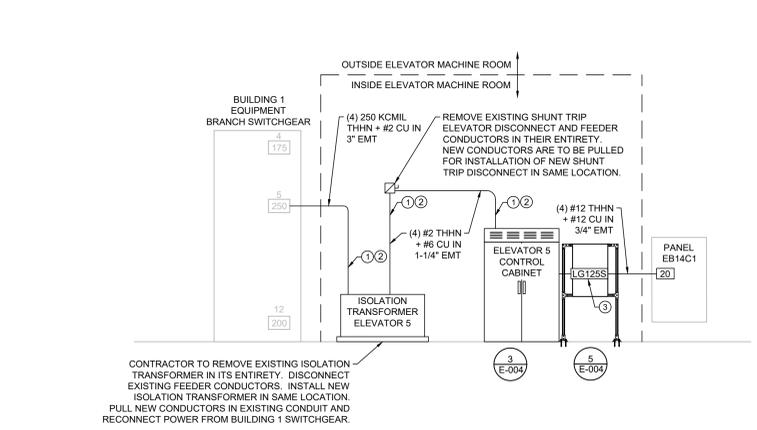
KEYED ELECTRICAL NOTES	
①	REMOVE EXISTING CONDUCTORS IN THEIR ENTIRETY. MAINTAIN CONDUIT FOR REUSE. (DEMOLITION)
②	PULL NEW WIRE IN EXISTING CONDUIT. (NEW CONSTRUCTION)
③	NEW DUAL-LITE LG SERIES LIGHTING INVERTER FOR LIFE SAFETY RATED EGRESS LUMINAIRES IN ELEVATOR CAB. (TYP)
④	REMOVE EXISTING HOME RUN WIRING AND EXISTING CONDUIT IN THEIR ENTIRETY.



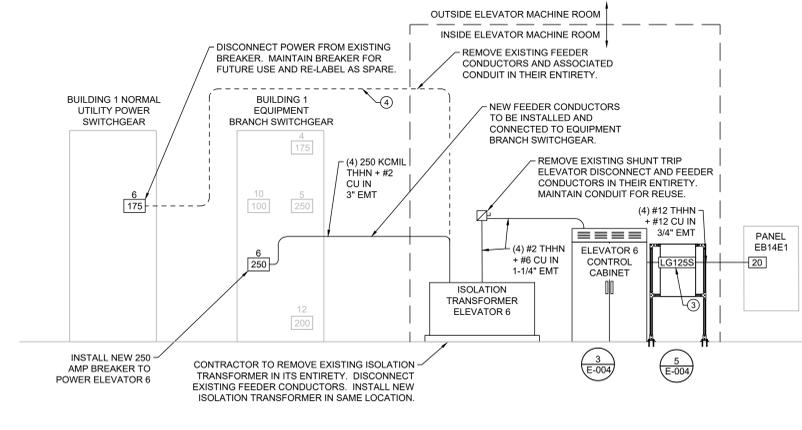
1 ELEVATORS 1, 2, & 3 - WIRING SCHEMATIC DIAGRAM  
E-003 SCALE: NTS



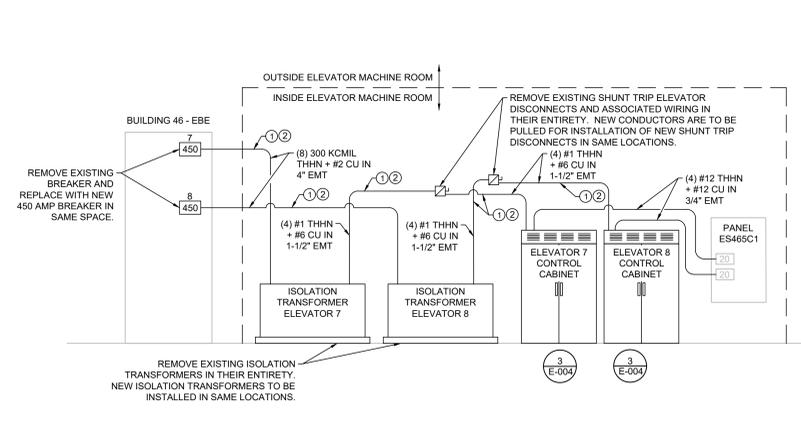
2 ELEVATOR 4 - WIRING SCHEMATIC DIAGRAM  
E-003 SCALE: NTS



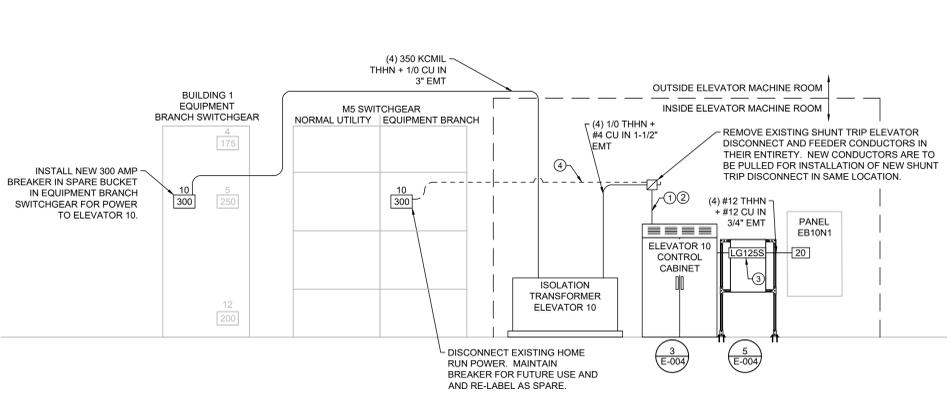
3 ELEVATOR 5 - WIRING SCHEMATIC DIAGRAM  
E-003 SCALE: NTS



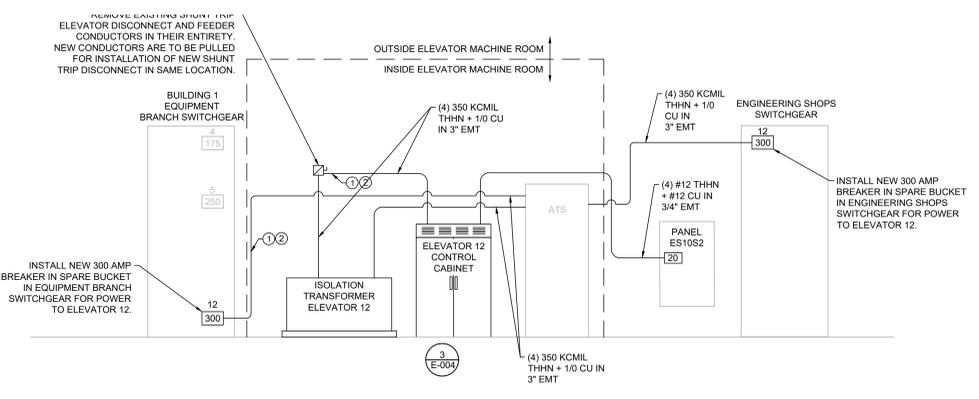
4 ELEVATOR 6 - WIRING SCHEMATIC DIAGRAM  
E-003 SCALE: NTS



5 ELEVATORS 7 & 8 - WIRING SCHEMATIC DIAGRAM  
E-003 SCALE: NTS



6 ELEVATOR 10 - WIRING SCHEMATIC DIAGRAM  
E-003 SCALE: NTS

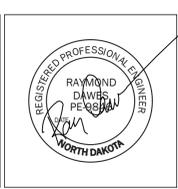


7 ELEVATOR 12 - WIRING SCHEMATIC DIAGRAM  
E-003 SCALE: NTS

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**ELECTRICAL SCHEMATIC DIAGRAMS**

Approved: Project Director  
**TODD DALZELL**

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Office of Construction and Facilities Management

Department of Veterans Affairs



