Fargo VAMC – Refurbish Elevators and Replace Controls
Fargo, North Dakota
Project #19-2481

February 9, 2024

ADDENDUM NO. 1

The following becomes a part of the original Plans and Specifications, just as if printed and bound therein, and takes precedence over any items that may conflict. The bidder shall acknowledge receipt of this Addendum on his bid form, incorporating its provisions in his bid.

SPECIFICATIONS:

1. Section 21 13 13 1.5 Quality Assurance – A: Wet-Pipe Sprinkler Systems – Remove reference to 'Oklahoma' and replace with 'North Dakota'.
    a. See attached revised Specification Section 21 13 13 Wet-Pipe Sprinkler Systems.

CHANGES AND CLARIFICATIONS TO DRAWINGS:

ARCHITECTURAL

Drawing Sheet AD5.21 ENLARGED PLANS - DEMOLITION – See revised drawing sheet for the inclusion of additional floor demo to support the installation of underfloor plumbing at Elevator #10.

Drawing Sheet A5.21 ENLARGED PLANS – See revised drawing sheet for the inclusion of additional floor repair to support the installation of underfloor plumbing at Elevator #10.

PLUMBING

Drawing Sheet P0.00 PLUMBING ABBREIVIATIONS, SYMBOLS, LEGENDS AND GENERAL NOTES – See revised drawing sheet for removal of epoxy coated steel requirement.

PLAN HOLDERS:
Provided by Fargo VAMC

END OF ADDENDUM NO. 1

SECTION 21 13 13
WET-PIPE SPRINKLER SYSTEMS

PART 1 - GENERAL

1.1 DESCRIPTION

A. Design, installation, and testing shall be in accordance with NFPA 13, 2019 Edition. See Section 1.6.B for additional standards.

B. Modification of the existing sprinkler systems serving existing elevator pits, shafts and penthouses as indicated on the drawings and as further required by these specifications.

1.2 RELATED WORK

A. Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES

B.

C. Section 07 84 00, FIRESTOPPING

D.

E. Section 28 31 00, FIRE DETECTION AND ALARM.

1.3 DESIGN CRITERIA

A. Design Basis Information: Provide design, materials, equipment, installation, inspection, and testing of the automatic sprinkler system in accordance with the requirements of NFPA 13.

B. Sprinkler Protection: Sprinkler hazard classifications shall be in accordance with NFPA 13. The office space and circulation space shall be classified as a light hazard occupancy. The hazard classification examples of uses and conditions identified in the Annex of NFPA 13 shall be mandatory for areas not listed below. Request clarification from the Government for any hazard classification not identified.

C. Hydraulic Calculations: Calculated demand including hose stream requirements shall fall no less than 10 percent below the available water supply curve.

D. Zoning: For each sprinkler zone confirm an existing control valve, flow switch, and test and drain assembly with pressure gauge. For buildings greater than two stories, confirm a check valve at each control valve.

1.4 SUBMITTALS

A. Submit as one package in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES. Prepare detailed working drawings that are signed by a NICET Level III or Level IV Sprinkler Technician

or stamped by a Registered Professional Engineer licensed in the field of Fire Protection Engineering. As the Government review is for technical adequacy only, the installer remains responsible for correcting any conflicts with other trades and building construction that arise during installation. Partial submittals will not be accepted. Material submittals shall be approved prior to the purchase or delivery to the job site. Suitably bind submittals in notebooks or binders and provide an index referencing the appropriate specification section. In addition to the hard copies, provide submittal items in Paragraphs 1.4(A)1 through 1.4(A)5 electronically in pdf format on a compact disc or as directed by the COR. Submittals shall include, but not be limited to, the following:

1. Qualifications:
   a. Provide a copy of the installing contractors Oklahoma state contractor's license.
   b. Provide a copy of the NICET certification for the NICET Level III or Level IV Sprinkler Technician who prepared and signed the detailed working drawings unless the drawings are stamped by a Registered Professional Engineer licensed in the field of Fire Protection Engineering.
   c. Provide documentation showing that the installer has been actively and successfully engaged in the installation of commercial automatic sprinkler systems for the past ten years.
2. Drawings: Submit detailed 1:100 (1/8 inch) scale (minimum) working drawings conforming to the Plans and Calculations chapter of NFPA 13. Drawings shall include graphical scales that allow the user to determine lengths when the drawings are reduced in size. Include a plan showing the piping to the water supply test location.
3. Manufacturer's Data Sheets: Provide data sheets for all materials and equipment proposed for use on the system. Include listing information and installation instructions in data sheets. Where data sheets describe items in addition to those proposed to be used for the system, clearly identify the proposed items on the sheet.
4. Calculation Sheets:

Submit hydraulic calculation when required on sheets in tabular form conforming to the requirements and recommendations of the Plans and Calculations chapter of NFPA 13.

5. Valve Charts: Provide a valve chart that identifies the location of each control valve. Coordinate nomenclature and identification of control valves with COR. Where existing nomenclature does not exist, the chart shall include no less than the following: Tag ID No., Valve Size, Service (control valve, main drain, aux. drain, inspectors test valve, etc.), and Location.
6. Final Document Submittals: Provide as-built drawings, testing and maintenance instructions in accordance with the requirements in Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES. In addition, submittals shall include, but not be limited to, the following:
   a. A complete set of as-built drawings showing the installed system with the specific interconnections between the system switches and the fire alarm equipment. Provide a complete set in the formats as follows. Submit items 2 and 3 below on a compact disc or as directed by the COR.
      1) One full size (or size as directed by the COR) printed copy.
      2) One complete set in electronic pdf format.
      3) One complete set in AutoCAD format or a format as directed by the COR.
   b. Material and Testing Certificate: Upon completion of the sprinkler system installation or any partial section of the system, including testing and flushing, provide a copy of a completed Material and Testing Certificate as indicated in NFPA 13. Certificates shall be provided to document all parts of the installation.
   c. Operations and Maintenance Manuals that include step-by-step procedures required for system startup, operation, shutdown, and routine maintenance and testing. The manuals shall include the manufacturer's name, model number, parts list, and tools that should be kept in stock by the owner for routine maintenance, including the name of a local supplier, simplified wiring and controls diagrams, troubleshooting guide, and recommended service organization, including address and telephone number, for each item of equipment.
   d. One paper copy of the Material and Testing Certificates and the Operations and Maintenance Manuals above shall be provided in a

binder. In addition, these materials shall be provided in pdf format on a compact disc or as directed by the COR.

e. Provide one additional copy of the Operations and Maintenance Manual covering the system in a flexible protective cover and mount in an accessible location adjacent to the riser or as directed by the COR.

1.5 QUALITY ASSURANCE

A. Installer Reliability: The installer shall possess a valid State of North Dakota contractor's license. The installer shall have been actively and successfully engaged in the installation of commercial automatic sprinkler systems for the past ten years.

B. Materials and Equipment: All equipment and devices shall be of a make and type listed by UL or approved by FM, or other nationally recognized testing laboratory for the specific purpose for which it is used. All materials, devices, and equipment shall be approved by the VA. All materials and equipment shall be free from defect. All materials and equipment shall be new unless specifically indicated otherwise on the contract drawings.

1.6 APPLICABLE PUBLICATIONS

A. The publications listed below form a part of this specification to the extent referenced. The publications are referenced in the text by the basic designation only.

B. National Fire Protection Association (NFPA):

13-19.....Installation of Sprinkler Systems

25-20.....Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems

101-21.....Life Safety Code

170-21.....Fire Safety Symbols

PART 2 - PRODUCTS

2.1 PIPING & FITTINGS

A. Piping and fittings for sprinkler systems shall be in accordance with NFPA 13.

1. Plain-end pipe fittings with locking lugs or shear bolts are not permitted.

2. Piping 2 inches and smaller shall be black steel Schedule 40 with threaded end connections.

3. Piping sizes 2 ½ inches and larger shall be black steel Schedule 10 with grooved connections. Grooves in Schedule 10 piping shall be rolled grooved only.
4. Plastic piping shall not be permitted except for drain piping.
5. Flexible sprinkler hose shall be FM Approved and limited to hose with threaded end fittings with a minimum inside diameter of 1-inch and a maximum length of 6-feet.

2.2 VALVES

A. General:
   1. Valves shall be in accordance with NFPA 13.
   2. Do not use quarter turn ball valves for 2 inch or larger drain valves.

B. Control Valve: The control valves shall be a listed indicating type. Control valves shall be UL Listed or FM Approved for fire protection installations. System control valves shall be rated for normal system pressure but in no case less than 175 PSI.

C. Check Valve: Shall be of the swing type with a flanged cast iron body and flanged inspection plate.

2.3 SPRINKLERS

A. All sprinklers shall be FM approved quick response.

B. Provide sprinkler guards in accordance with NFPA 13 and when the elevation of the sprinkler head is less than 7 feet 6 inches above finished floor. The sprinkler guard shall be UL listed or FM approved for use with the corresponding sprinkler.

2.4 SPRINKLER CABINET

A. Update existing sprinkler cabinet 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.

B. Provide a list of sprinklers installed in the area of work in the cabinet. The list shall include the following:
   1. Manufacturer, model, orifice, deflector type, thermal sensitivity, and pressure for each type of sprinkler in the cabinet.
   2. General description of where each sprinkler is used.
   3. Quantity of each type present in the cabinet.
   4. Issue or revision date of list.

2.5 SPRINKLER SYSTEM SIGNAGE

Rigid plastic, steel or aluminum signs with white lettering on a red background with holes for easy attachment. Sprinkler system signage shall be attached to the valve or piping with chain.

2.6 SWITCHES:

A. Water flow Alarm Switches: Confirm existing is mechanical, non-coded, non-accumulative retard and adjustable from 0 to 60 seconds minimum. Set flow switches at an initial setting between 20 and 30 seconds.

B. Valve Supervisory Switches for Ball and Butterfly Valves: May be integral with the valve.

2.7 GAUGES

Provide gauges as required by NFPA 13. Provide gauges where the normal pressure of the system is at the midrange of the gauge.

2.8 PIPE HANGERS, SUPPORTS AND RESTRAINT OF SYSTEM PIPING

Pipe hangers, supports, and restraint of system piping shall be in accordance with NFPA 13.

2.9 WALL, FLOOR AND CEILING PLATES

Provide chrome plated steel escutcheon plates.

2.10 VALVE TAGS

Engraved black filled numbers and letters not less than 1/2 inch high for number designation, and not less than 1/4 inch for service designation on 19 gage, 1-1/2 inches round brass disc, attached with brass "S" hook, brass chain, or permanent nylon tie wraps.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Installation shall be accomplished by the licensed contractor. Provide a qualified technician, experienced in the installation and operation of the type of system being installed, to supervise the installation and testing of the system.

B. Installation of Piping: Accurately cut pipe to measurements established by the installer and work into place without springing or forcing. In any situation where bending of the pipe is required, use a standard pipe-bending template. Conceal piping in spaces that have finished ceilings. In stairways, locate piping as near to the ceiling as possible to prevent tampering by unauthorized personnel and to provide a minimum headroom clearance of seven feet six inches. Piping shall not obstruct the minimum means of egress clearances required by NFPA 101.

Pipe hangers, supports, and restraint of system piping, shall be installed in accordance with NFPA 13.

C. Welding: Conform to the requirements and recommendations of NFPA 13.

D. Drains: Provide drips and drains, including low point drains, in accordance with NFPA 13. Pipe drains to discharge at safe points outside of the building or to sight cones attached to drains of adequate size to readily carry the full flow from each drain under maximum pressure. Do not provide a direct drain connection to sewer system or discharge into sinks. Install drips and drains where necessary and required by NFPA 13. The drain piping shall not be restricted or reduced and shall be of the same diameter as the drain collector.

E. Supervisory Switches: Confirm supervisory switches are provided for all sprinkler control valves.

F. Waterflow Alarm Switches: Confirm existing waterflow alarm switches are provided on the existing sprinkler riser for the second floor.

G. Inspector's Test Connection: Confirm existing in accordance with NFPA 13, located in a secured area, and discharged to the exterior of the building.

H. Affix cutout disks, which are created by cutting holes in the walls of pipe for flow switches and non-threaded pipe connections to the respective waterflow switch or pipe connection near to the pipe from where they were cut.

I. Provide escutcheon plates for exposed piping passing through walls, floors or ceilings.

J. Sleeves: Provide for pipes passing through masonry or concrete. Provide space between the pipe and the sleeve in accordance with NFPA 13. Seal this space with a UL Listed through penetration fire stop material in accordance with Section 07 84 00, FIRESTOPPING. Where core drilling is used in lieu of sleeves, also seal space. Seal penetrations of walls, floors and ceilings of other types of construction, in accordance with Section 07 84 00, FIRESTOPPING.

K. Firestopping shall be provided for all penetrations of fire resistance rated construction. Firestopping shall comply with Section 07 84 00, FIRESTOPPING.

L. Any non-factory painted sprinkler shall be replaced with a new sprinkler.

M. Sprinkler System Signage: Provide rigid sprinkler system signage in accordance with NFPA 13 and NFPA 25. Sprinkler system signage shall include, but not limited to, the following:

1. Identification Signs:
   a. Provide signage for each control valve, drain valve, sprinkler cabinet, and inspector's test valve.
   b. Provide valve tags for each operable valve. Coordinate nomenclature and identification of operable valves with COR. Where existing nomenclature does not exist, the Tag Identification shall include no less than the following: (FP-B-F/SZ-#) Fire Protection, Building Number, Floor Number/Smoke Zone (if applicable), and Valve Number. (E.g., FP-500-1E-001) Fire Protection, Building 500, First Floor East, Number 001.)
2. Instruction/Information Signs:
   a. Provide signage for each control valve to indicate valve function and to indicate what system is being controlled.
   b. Provide signage indicating the number and location of low point drains.
3. Hydraulic Placards (when required):
   a. Provide signage indicating hydraulic design information. The placard shall include:
      (1) Location of the design area or areas
      (2) Size (area) of or number of sprinklers in the design area
      (3) Discharge densities over the design area or areas
      (4) Required flow and residual pressure demand at the base of the riser or fire pump where applicable
      (5) Occupancy classification or commodity classification and maximum permitted storage height and configuration
      (6) Hose stream allowance included in addition to the sprinkler demand
      (7) Name of the installing contractor.
   b. Locate hydraulic placard information signs at the sprinkler riser main control valve.

N. Repairs: Repair damage to the building or equipment resulting from the installation of the sprinkler system by the installer at no additional expense to the Government.

O. 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. 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.

3.2 INSPECTION AND TEST

A. Preliminary Testing: Flush newly installed systems prior to performing hydrostatic tests in order to remove any debris which may have been left as well as ensuring piping is unobstructed. Hydrostatically test system, including the fire department connections, as specified in NFPA 13, in the presence of the Contracting Officers Representative (COR) or his designated representative. Test and flush underground water line prior to performing these hydrostatic tests.

B. Final Inspection and Testing: Subject system to tests in accordance with NFPA 13, and when all necessary corrections have been accomplished, advise COR to schedule a final inspection and test. Connection to the fire alarm system shall have been in service for at least ten days prior to the final inspection, with adjustments made to prevent false alarms. Furnish all instruments, labor and materials required for the tests and provide the services of the installation foreman or other competent representative of the installer to perform the tests. Correct deficiencies and retest system as necessary, prior to the final acceptance. Include the operation of all features of the systems under normal operations in test

3.3 INSTRUCTIONS

Furnish the services of a competent instructor for not less than two hours for instructing personnel in the operation and maintenance of the system, on the dates requested by the COR.

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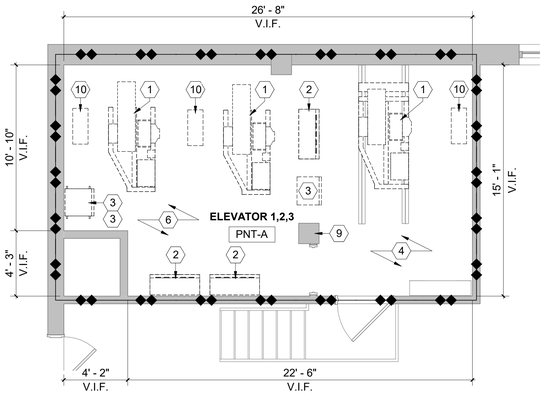
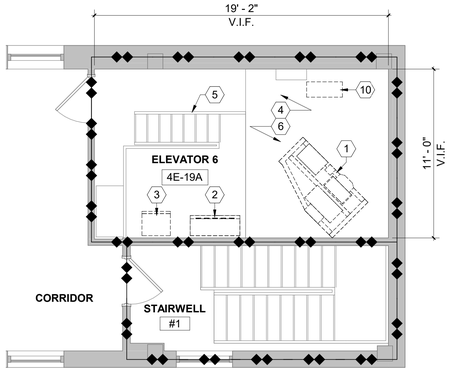
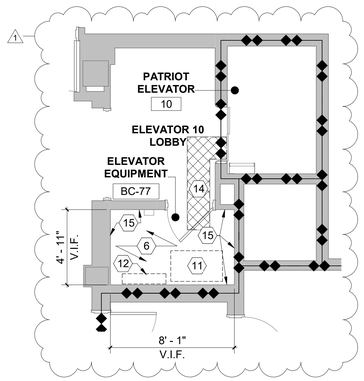


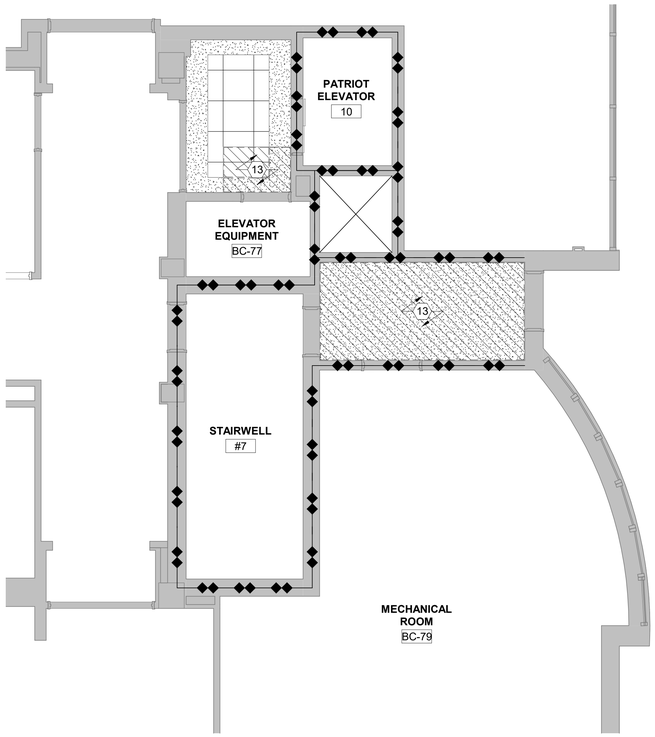
2 FLOOR PLAN - LIBERTY 1,2,3 - PENTHOUSE DEMOLITION
1/4" = 1'-0"



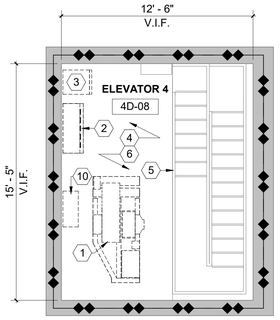
1 FLOOR PLAN - ELEVATOR 6 DEMOLITION - PENTHOUSE - TYPICAL
1/4" = 1'-0"

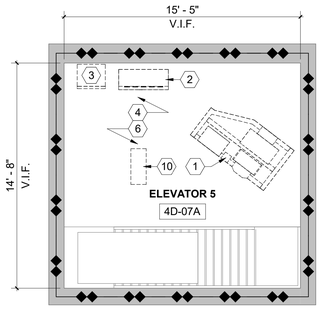


5 FLOOR PLAN - ELEVATOR 10 DEMOLITION - EQUIPMENT ROOM
1/4" = 1'-0"



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





4 FLOOR PLAN - INDEPENDENCE 4,5 - PENTHOUSE DEMOLITION
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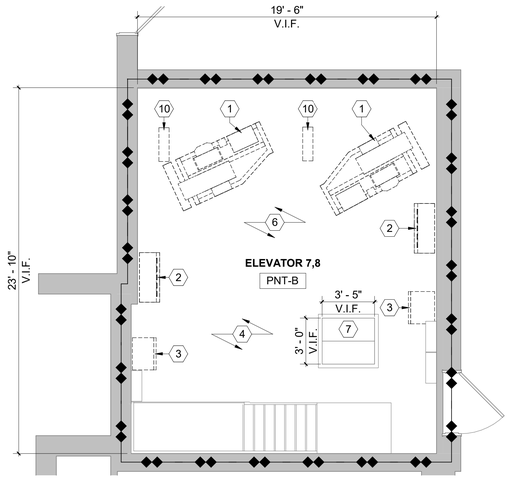
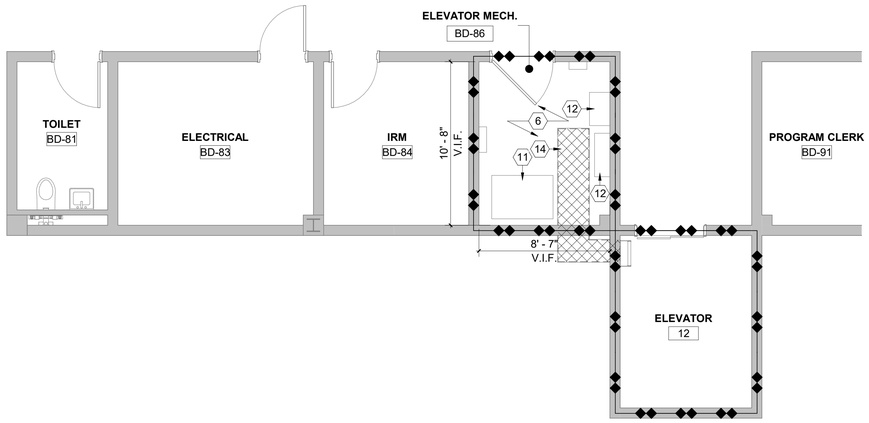
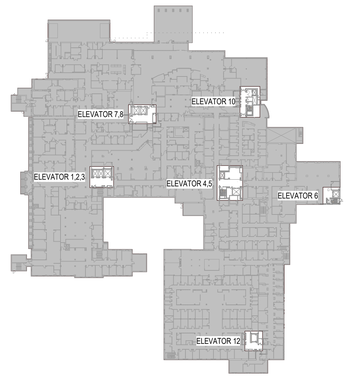


3 FLOOR PLAN - VICTORY ELEVATOR 7,8 - PENTHOUSE DEMOLITION
1/4" = 1'-0"



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



KEY PLAN

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.
6. CONTRACTOR SHALL PROTECT ADJACENT ROOMS FROM DAMAGE DURING CONSTRUCTION. REPAIR ANY DAMAGED ITEMS AND ASSEMBLIES TO PRE-PROJECT CONDITION IF DAMAGED DURING CONSTRUCTION.
7. SEE MECHANICAL, ELECTRICAL AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.
8. 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. 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.

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. EXISITNG 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.

1: ADDENDUM #1	02/08/24
Revisions:	Date

CONSULTANTS:

SUMMIT FIRE PROTECTION

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ST. PAUL, MINNESOTA 55103
(612) 387-7050

LICENSED ARCHITECT
JOEL P. SIMONAK
(3984)
RENEW: 12 / 31 / 2022
STATE OF NORTH DAKOTA

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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	1,9,46
Drawing Number	AD5.22
Dwg.	8 of 41

Office of Construction and Facilities Management

Department of Veterans Affairs

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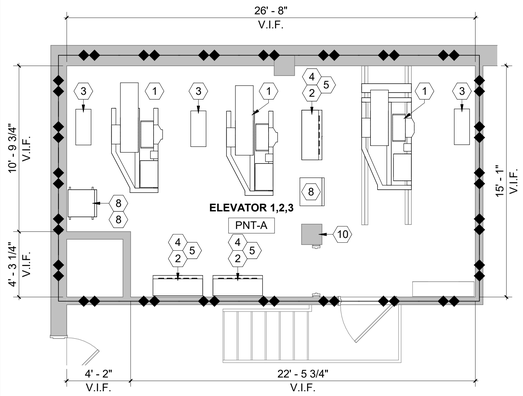
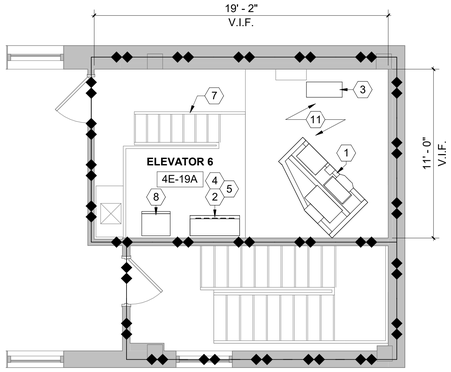
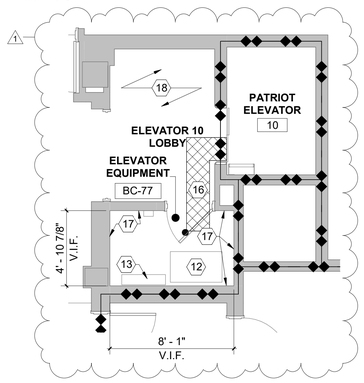
VA FORM 08-6231



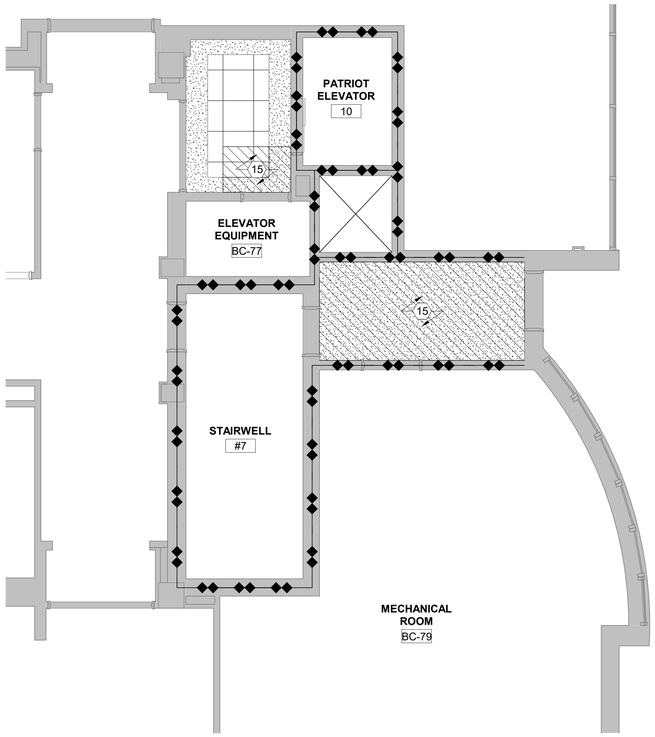
1 FLOOR PLAN - LIBERTY 1,2,3 PENTHOUSE - TYPICAL
1/4" = 1'-0"



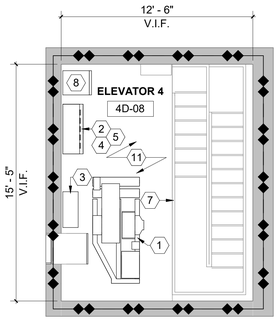
2 FLOOR PLAN - ELEVATOR 6 - PENTHOUSE - TYPICAL
1/4" = 1'-0"

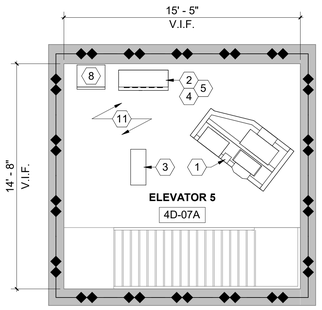


3 FLOOR PLAN - ELEVATOR 10 - EQUIPMENT ROOM
1/4" = 1'-0"

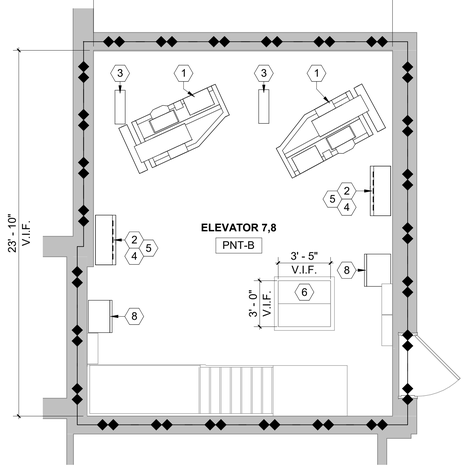


7 RCP - ELEVATOR 10 NEW - EQUIPMENT ROOM
1/4" = 1'-0"

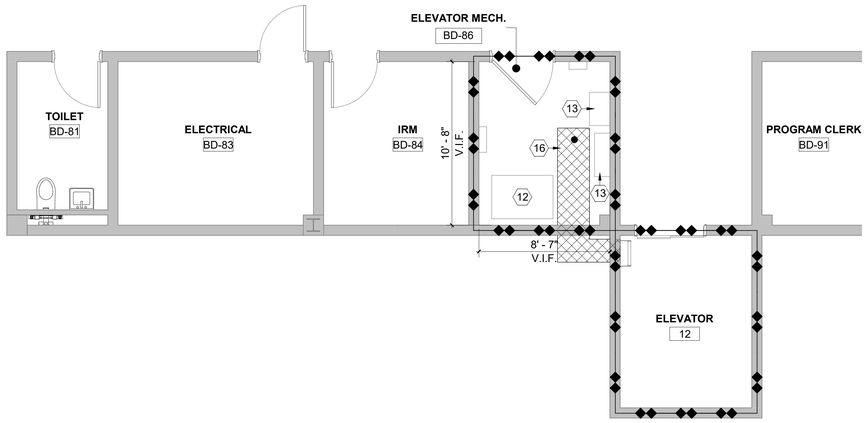




4 FLOOR PLAN - INDEPENDENCE 4,5 - PENTHOUSE - TYPICAL
1/4" = 1'-0"



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



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

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.
6. CONTRACTOR SHALL PROTECT ADJACENT ROOMS FROM DAMAGE DURING CONSTRUCTION. REPAIR ANY DAMAGED ITEMS AND ASSEMBLIES TO PRE-PROJECT CONDITION IF DAMAGED DURING CONSTRUCTION.
7. SEE MECHANICAL, ELECTRICAL AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.
8. 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. 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.

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.
18. PROVIDE NEW LVT PLANK FLOORING AND 4" VINYL BASE THROUGHOUT ELEVATOR VESTIBULE AFTER PATCH AND REPAIR OF CONCRETE SLAB.

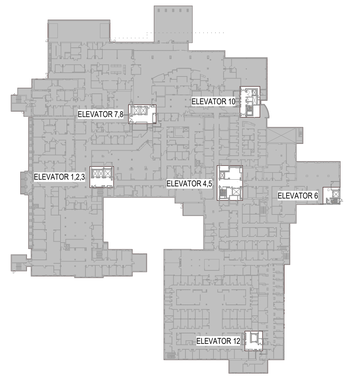
FIRE BARRIER LEGEND

EXISTING 2 HOUR FIRE RATED PARTITION

FLOOR PLAN LEGEND

SCOPE OF NEW CEILING CONSTRUCTION

SCOPE OF NEW FLOORING CONSTRUCTION



KEY PLAN

1: ADDENDUM #1	02/08/24
Revisions:	Date

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Drawing Title: ENLARGED PLANS - PENTHOUSE / EQUIPMENT ROOMS

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: A5.22

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Office of Construction and Facilities Management

Department of Veterans Affairs

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ABBREVIATIONS:

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

PLUMBING SYMBOLS

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

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 PVC OR CAST IRON PIPING AS SPECIFIED. (1)

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

REVISION #1 - ADDENDUM #1	02/08/24
Revisions:	Date

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Drawing Title: PLUMBING ABBREVIATIONS, SYMBOLS, LEGENDS, AND GENERAL NOTES

Approved: Project Director: FARGO VAMC

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Location: 2101 ELM STREET FARGO, ND 58102

Date: 12.20.22 | Checked: RD | Drawn: BM

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Drawing Number: P0.00

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Office of Construction and Facilities Management

Department of Veterans Affairs

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