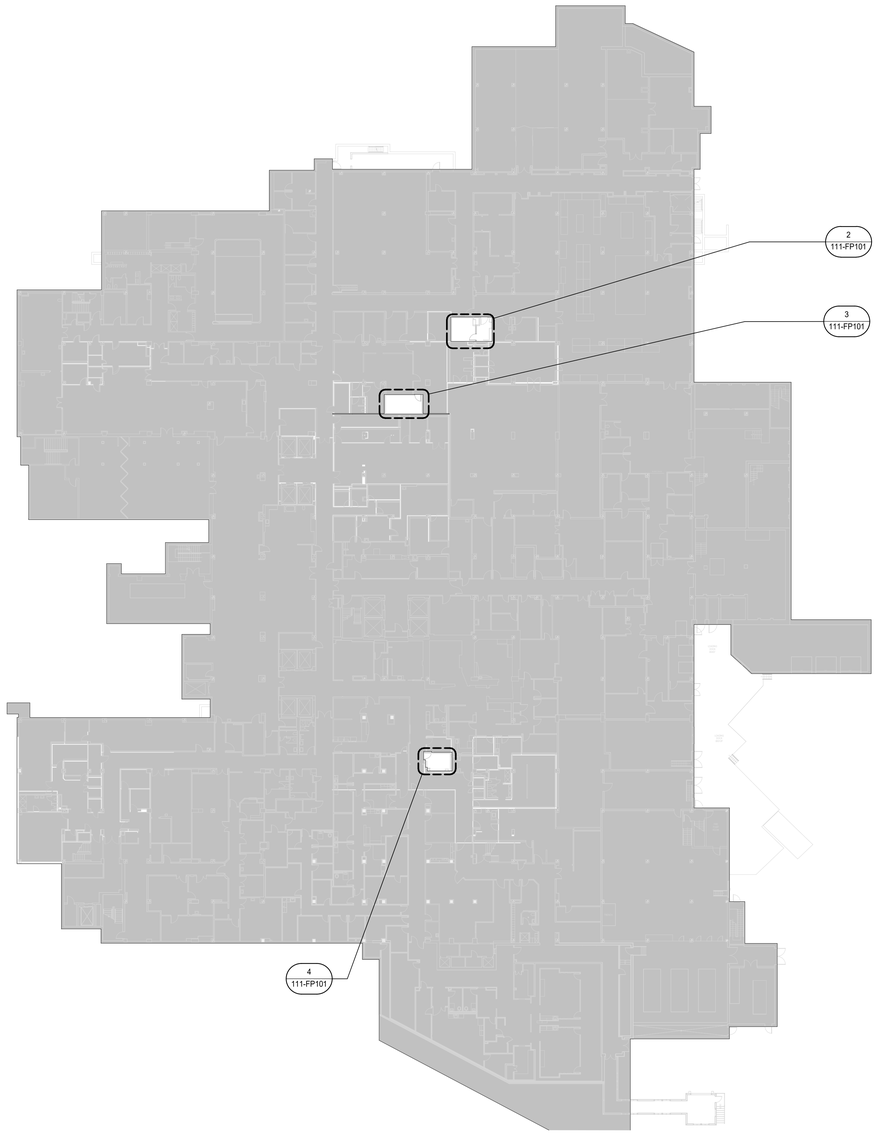
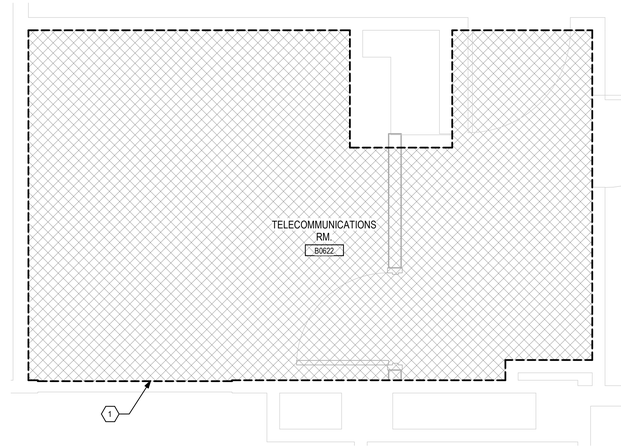
KEY NOTES

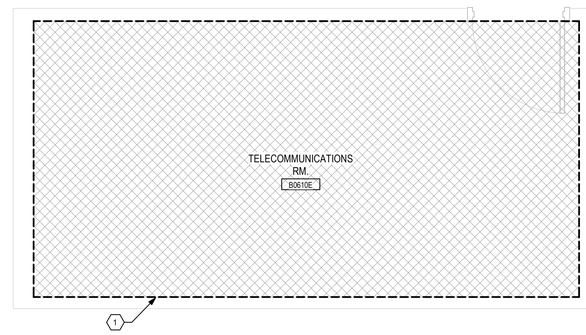
1. AREA SHOWN CROSS-HATCHED INDICATES SCOPE OF FIRE SPRINKLER WORK. RECONFIGURE PIPING FOR PROPER HEAD PLACEMENT & INSTALL UPRIGHT SPRINKLER HEADS IN THIS AREA PER NFPA 13 ORDINARY HAZARD GROUP 1 OCCUPANCY. DO NOT PLACE SPRINKLER HEADS ABOVE IT OR ELECTRICAL EQUIPMENT. ROOM PLANNED AS ANSI/TIA-942-B RATING 1.



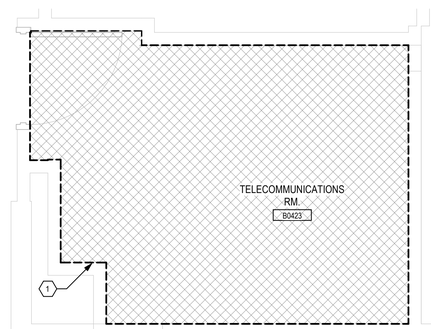
1 BUILDING 111 BASEMENT FLOOR PLAN - FIRE PROTECTION
1" = 30'-0"



2 RM. B0622 ENLARGED PLAN - FIRE PROTECTION
1/2" = 1'-0"



3 RM. B0610 ENLARGED PLAN - FIRE PROTECTION
1/2" = 1'-0"



4 RM. B0423 ENLARGED PLAN - FIRE PROTECTION
1/2" = 1'-0"

TRUE NORTH
PLAN NORTH

0' 15' 30' 60'
Graphic Scale : 1" = 30'-0"

Revisions:	Date:

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ARON G. WIECZOREK
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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
BUILDING 111 BASEMENT - FIRE PROTECTION FLOOR PLAN	FINAL BID DOCUMENTS	EHRM INFRASTRUCTURE UPGRADES – MILWAUKEE, WI	695-21-700
			Building Number: 111
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Drawing Number: 111-FP101
		Issue Date: SEPTEMBER 5, 2025 / Checked: AW / Drawn: DAW	

VA FORM 08 - 6231

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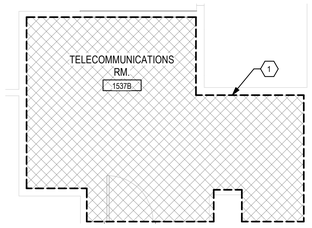
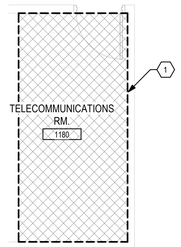
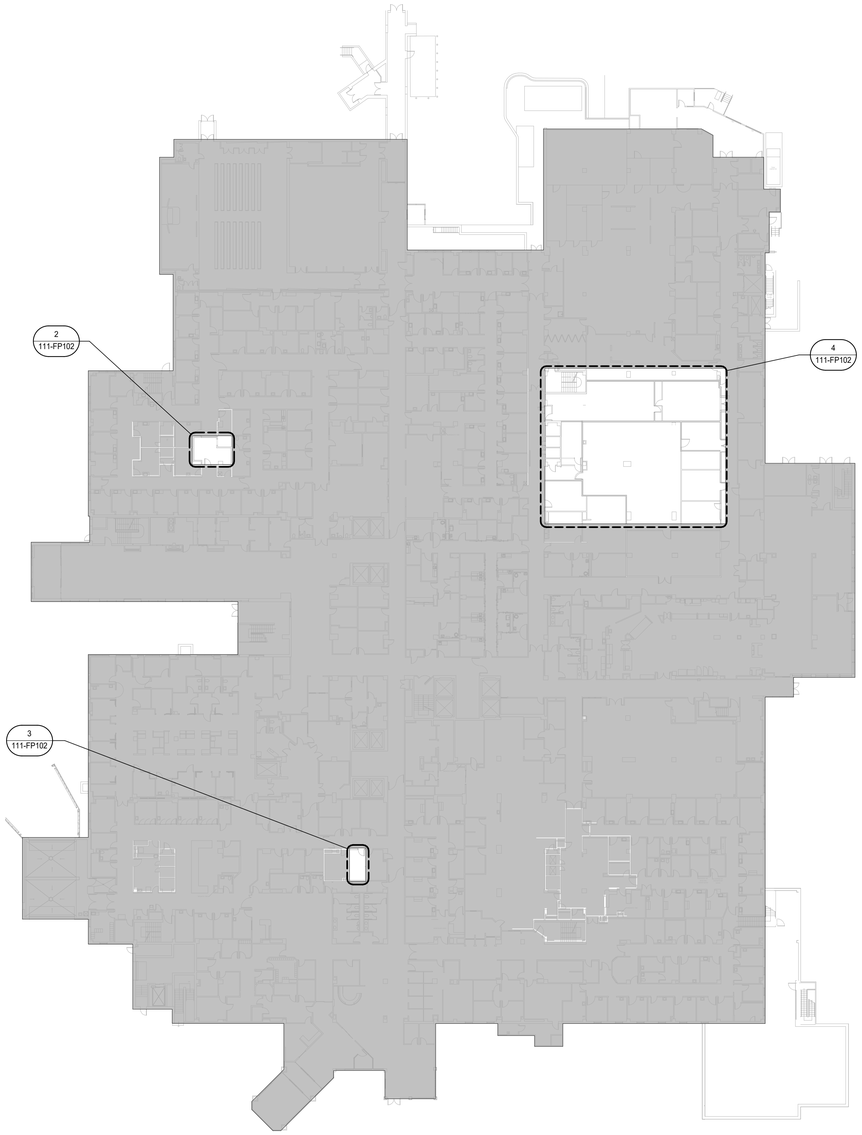


2 RM. 1537B ENLARGED PLAN - FIRE PROTECTION
1/4" = 1'-0"



3 RM. 1180 ENLARGED PLAN - FIRE PROTECTION
1/4" = 1'-0"



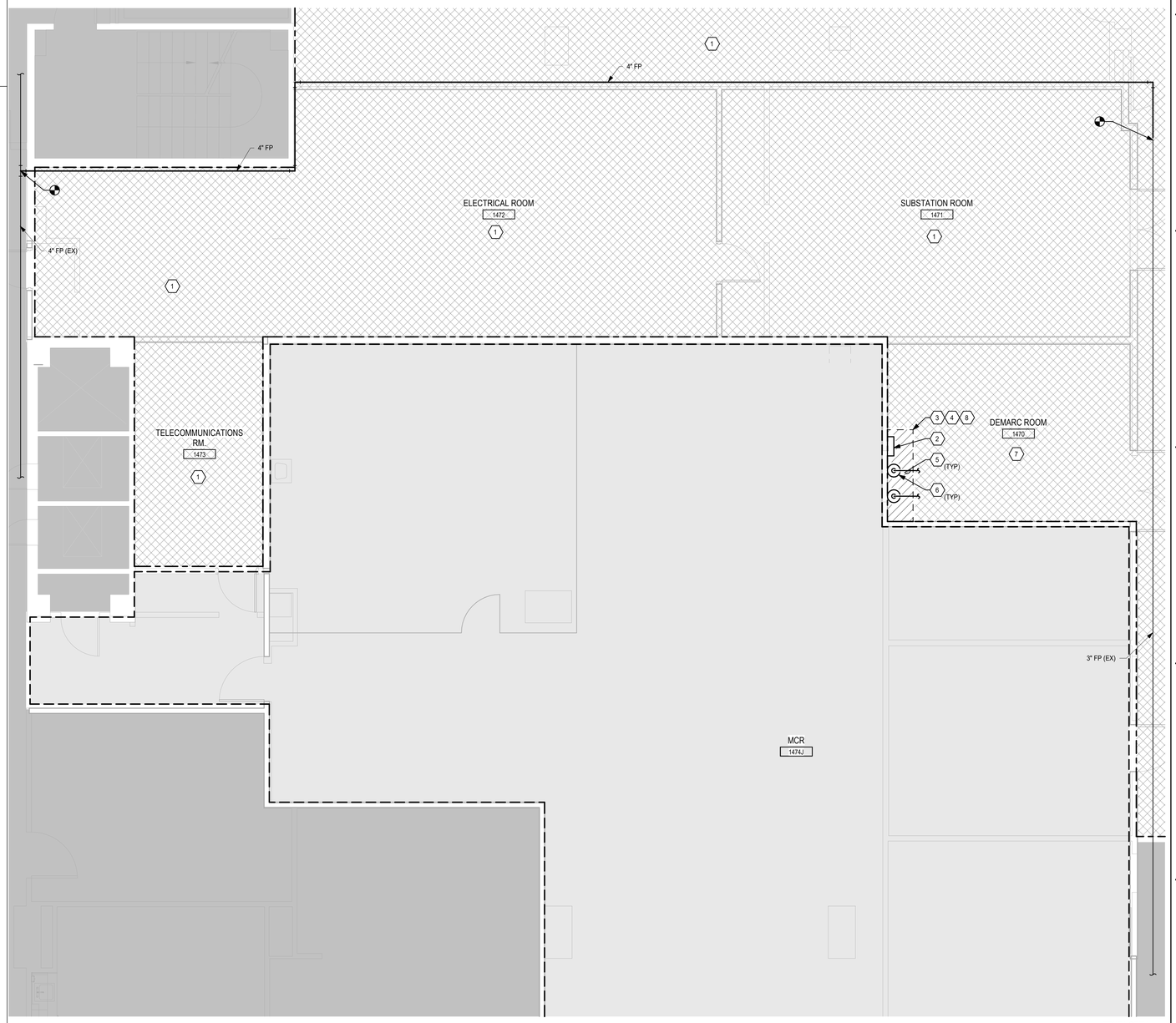
1 BUILDING 111 LEVEL 01 FLOOR PLAN - FIRE PROTECTION
1" = 30'-0"

KEYED NOTES

1. AREA SHOWN CROSS-HATCHED INDICATES SCOPE OF FIRE SPRINKLER WORK. RECONFIGURE PIPING FOR PROPER HEAD PLACEMENT & INSTALL UPRIGHT SPRINKLER HEADS IN THIS AREA PER NFPA 13 ORDINARY HAZARD GROUP 1 OCCUPANCY. DO NOT PLACE SPRINKLER HEADS ABOVE IT OR ELECTRICAL EQUIPMENT. ROOM PLANNED AS ANSI/TIA-942-B RATING 1.
2. POWER AND CONTROL PANEL. INTERLOCK CONTROLS WITH THE HVAC CRAC SYSTEM. THE CLEAN AGENT SYSTEM TO MONITOR THE DUCT DETECTORS. THE HVAC SYSTEM TO BE SHUT DOWN BY THE BUILDING AUTOMATION SYSTEM UPON FIRE OR SMOKE ALARM. CONNECT TO BUILDING FIRE ALARM SYSTEM. PROVIDE 120V POWER WITH DISCONNECT.
3. PROVIDE THE DESIGN, INSTALLATION AND TESTING OF A CALCULATED AUTOMATIC AND MANUAL FIXED TOTAL FLOODING CLEAN AGENT FIRE EXTINGUISHING SYSTEM AND RELEASING SYSTEM IN ACCORDANCE WITH NFPA 2001, NFPA 72, NFPA 70, AND NFPA 75 AND MANUFACTURER'S WRITTEN INSTRUCTIONS FOR OVERAGE FOR ABOVE CEILING AND WITHIN ROOM. THE INSTALLATION SHALL INCLUDE ALL MECHANICAL, PIPING, NOZZLES, SENSORS, TANKS, CONTROLS AND ELECTRICAL COMPONENTS NECESSARY FOR A COMPLETE AND OPERATING CLEAN AGENT FIRE SUPPRESSION SYSTEM. REFER TO SPECIFICATION SECTION 21-22 00 FOR ADDITIONAL DETAILS.
4. GENERAL AREA FOR CLEAN AGENT FIRE SUPPRESSION SYSTEM. EXACT DIMENSIONS OF AREA AND STORAGE TANKS TO BE DETERMINED THROUGH SUBMITTAL PROCESS.
5. DISCHARGE PIPING TO ROOM NOZZLES.
6. CLEAN AGENT STORAGE TANKS. FASTEN TO WALL.
7. REFER TO ARCHITECTURAL AND ELECTRICAL SHEETS FOR LOCATIONS OF SMOKE DETECTORS, MANUAL ACTIVATION STATIONS, PRE-DISCHARGE BELLS, PRE-DISCHARGE STROBES, DISCHARGE STROBES, AND ANY HELD-OPEN DOOR CONTROLS.
8. REFER TO ARCHITECTURE PLANS FOR SEALING OF THE ROOM ENVELOPE ABOVE CEILING, WITHIN ROOM, AND BELOW RAISED FLOOR. SEAL WALLS TO STRUCTURE. SEAL AROUND ALL PENETRATIONS FOR DUCTS, PIPES, CONDUITS, AND PROVIDE GASKETING FOR TELECOMMUNICATION SYSTEMS. PERFORM ROOM ENCLOSURE PRESSURIZATION TEST AS SPECIFIED.

TIER PLAN LEGEND

- TIER 1 FIRE PROTECTION AREA
- TIER 2 AREA
- AREA NOT IN CONTRACT



4 RM. 1659, 1673, & 1674 ENLARGED PLAN - FIRE PROTECTION
1/4" = 1'-0"

TRUE NORTH
PLAN NORTH

0' 15' 30' 60'
Graphic Scale : 1" = 30'-0"

Revisions:	Date:

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WISCONSIN 19575 ARIEL G. WIECZOREK #42666-6 SWISHER IOWA PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING 111 LEVEL 01 - FIRE PROTECTION FLOOR PLAN	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES – MILWAUKEE, WI	Project Number: 695-21-700
			Building Number: 111
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Drawing Number: 111-FP102
		Issue Date: SEPTEMBER 5, 2025 / Checked: AW / Drawn: DAW	

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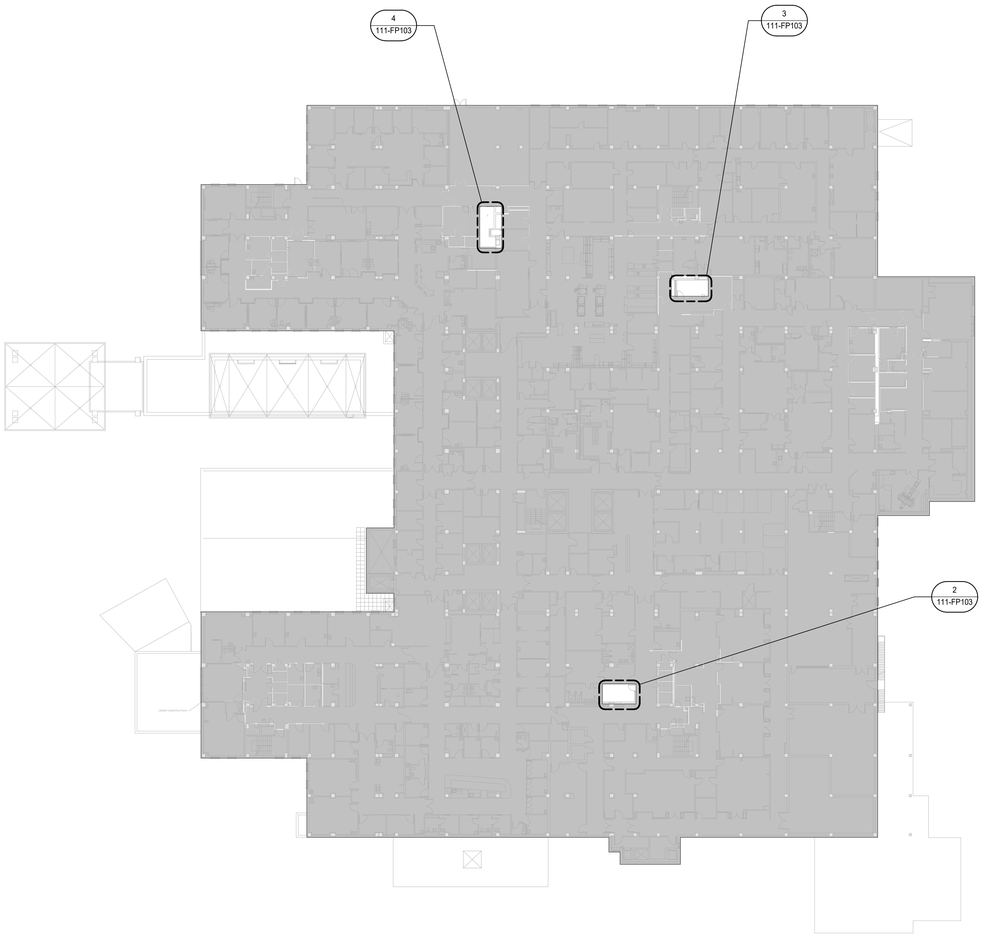
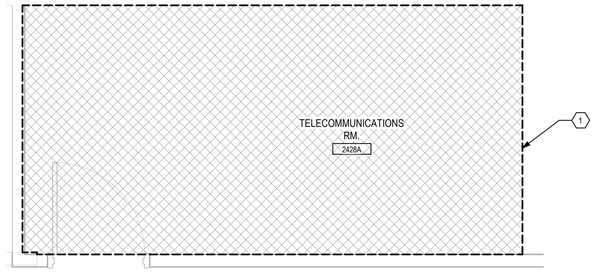
KEY NOTES

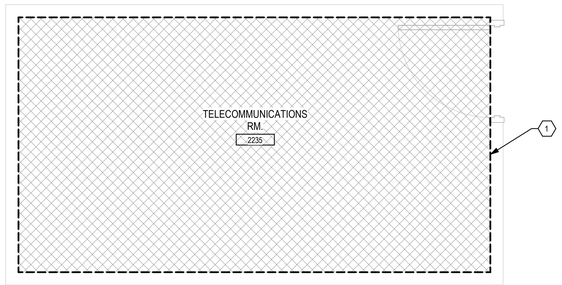
1. AREA SHOWN CROSS-HATCHED INDICATES SCOPE OF FIRE SPRINKLER WORK. RECONFIGURE PIPING FOR PROPER HEAD PLACEMENT & INSTALL UPRIGHT SPRINKLER HEADS IN THIS AREA PER NFPA 13 ORDINARY HAZARD GROUP 1 OCCUPANCY. DO NOT PLACE SPRINKLER HEADS ABOVE IT OR ELECTRICAL EQUIPMENT. ROOM PLANNED AS ANSI/TIA-942-B RATING 1.



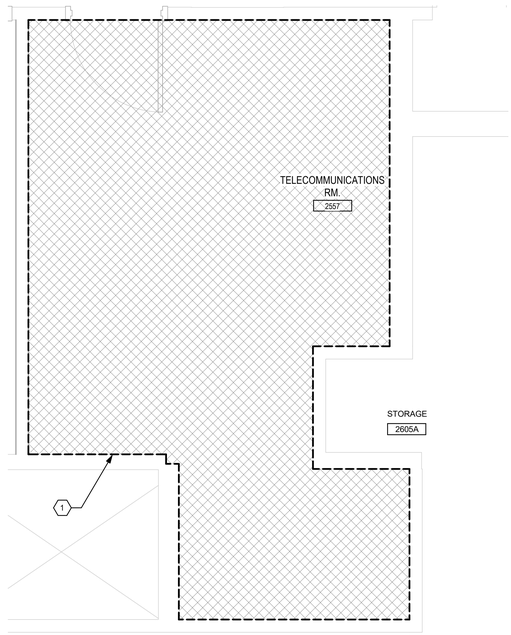
1 BUILDING 111 LEVEL 02 FLOOR PLAN - FIRE PROTECTION
1" = 30'-0"



2 RM. 2428 ENLARGED PLAN - FIRE PROTECTION
1/2" = 1'-0"



3 RM. 2235 ENLARGED PLAN - FIRE PROTECTION
1/2" = 1'-0"



4 RM. 2557 ENLARGED PLAN - FIRE PROTECTION
1/2" = 1'-0"

TRUE NORTH
PLAN NORTH

0' 15' 30' 60'
Graphic Scale : 1" = 30'-0"

Graphic Scale : 3/32" = 1'-0"
Graphic Scale : 1/8" = 1'-0"
Graphic Scale : 1/4" = 1'-0"
Graphic Scale : 3/16" = 1'-0"
Graphic Scale : 1/2" = 1'-0"
Graphic Scale : 3/4" = 1'-0"
Graphic Scale : 1" = 1'-0"
Graphic Scale : 1 1/2" = 1'-0"

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ARED G. WIECZOREK
#42666-6
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PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING 111 LEVEL 02 - FIRE PROTECTION FLOOR PLAN	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES – MILWAUKEE, WI	Project Number: 695-21-700
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Building Number: 111
		Issue Date: SEPTEMBER 5, 2025 / Checked: AW / Drawn: DAW	Drawing Number: 111-FP103

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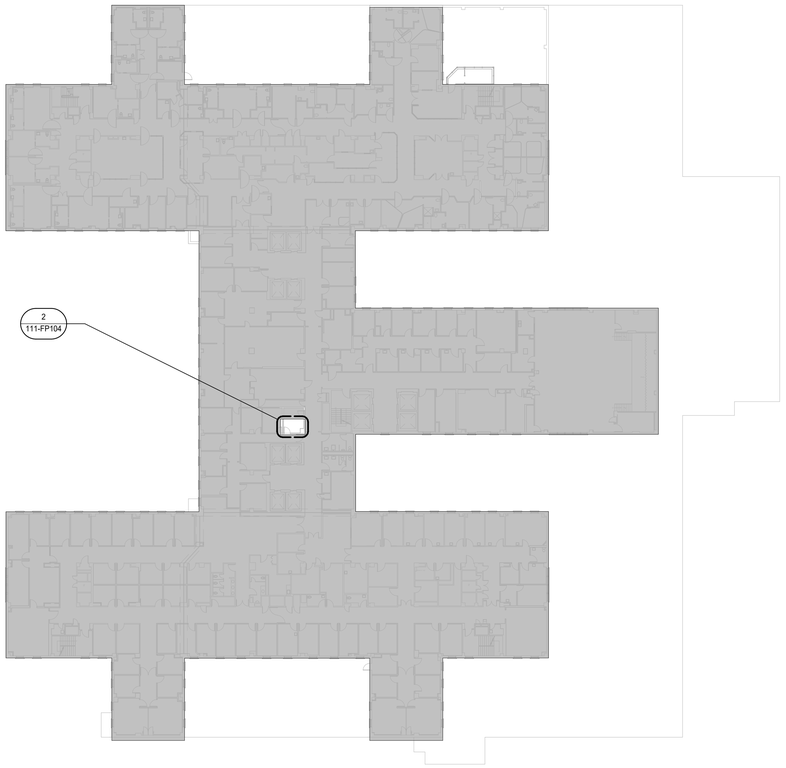
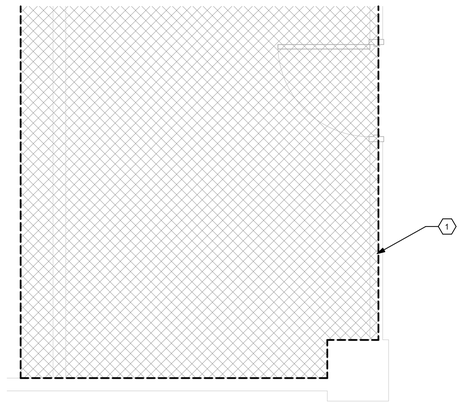
KEY NOTES

1. AREA SHOWN CROSS-HATCHED INDICATES SCOPE OF FIRE SPRINKLER WORK. RECONFIGURE PIPING FOR PROPER HEAD PLACEMENT & INSTALL UPRIGHT SPRINKLER HEADS IN THIS AREA PER NFPA 13 ORDINARY HAZARD GROUP 1 OCCUPANCY. DO NOT PLACE SPRINKLER HEADS ABOVE IT OR ELECTRICAL EQUIPMENT. ROOM PLANNED AS ANSI/TIA-942-B RATING 1.



1 BUILDING 111 LEVEL 03 FLOOR PLAN - FIRE PROTECTION
1" = 30'-0"



2 RM. 3308 ENLARGED PLAN - FIRE PROTECTION
1/2" = 1'-0"

TRUE NORTH
PLAN NORTH

0' 15' 30' 60'
Graphic Scale : 1" = 30'-0"

Revisions:	Date:

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Drawing Title: BUILDING 111 LEVEL 03 - FIRE PROTECTION FLOOR PLAN	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES – MILWAUKEE, WI	Project Number: 695-21-700
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Building Number: 111
		Issue Date: SEPTEMBER 5, 2025 / Checked: AW / Drawn: DAW	Drawing Number: 111-FP104

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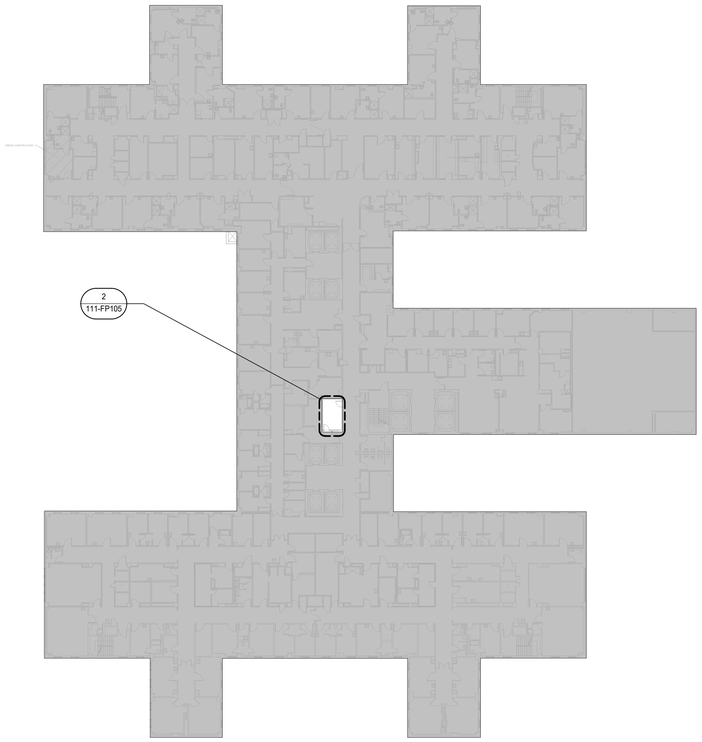
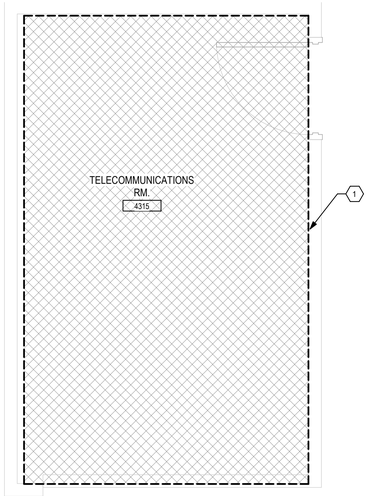
KEYNOTES

1. AREA SHOWN CROSS-HATCHED INDICATES SCOPE OF FIRE SPRINKLER WORK. RECONFIGURE PIPING FOR PROPER HEAD PLACEMENT & INSTALL UPRIGHT SPRINKLER HEADS IN THIS AREA PER NFPA 13 ORDINARY HAZARD GROUP 1 OCCUPANCY. DO NOT PLACE SPRINKLER HEADS ABOVE IT OR ELECTRICAL EQUIPMENT. ROOM PLANNED AS ANSI/TIA-942-B RATING 1.



1 BUILDING 111 LEVEL 04 FLOOR PLAN - FIRE PROTECTION
1" = 30'-0"



2 RM. 4315 ENLARGED PLAN - FIRE PROTECTION
1/2" = 1'-0"

TRUE NORTH
PLAN NORTH

0' 15' 30' 60'
Graphic Scale : 1" = 30'-0"

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Drawing Title: BUILDING 111 LEVEL 04 - FIRE PROTECTION FLOOR PLAN	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES – MILWAUKEE, WI	Project Number: 695-21-700
			Building Number: 111
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Drawing Number: 111-FP105
		Issue Date: SEPTEMBER 5, 2025 / Checked: AW / Drawn: DAW	

Graphic Scale : 1/8" = 1'-0"
Graphic Scale : 3/32" = 1'-0"
Graphic Scale : 1/4" = 1'-0"
Graphic Scale : 3/16" = 1'-0"
Graphic Scale : 1/2" = 1'-0"
Graphic Scale : 3/4" = 1'-0"
Graphic Scale : 1" = 1'-0"
Graphic Scale : 1 1/2" = 1'-0"

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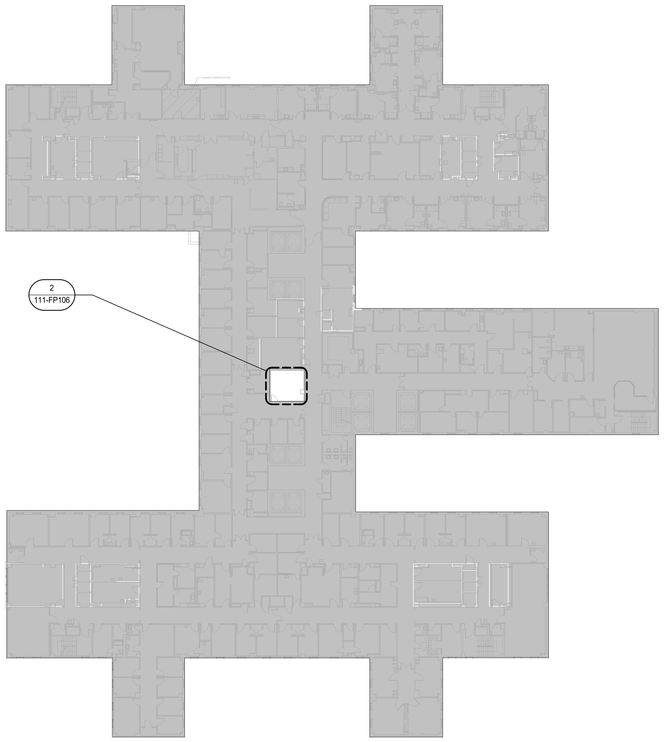
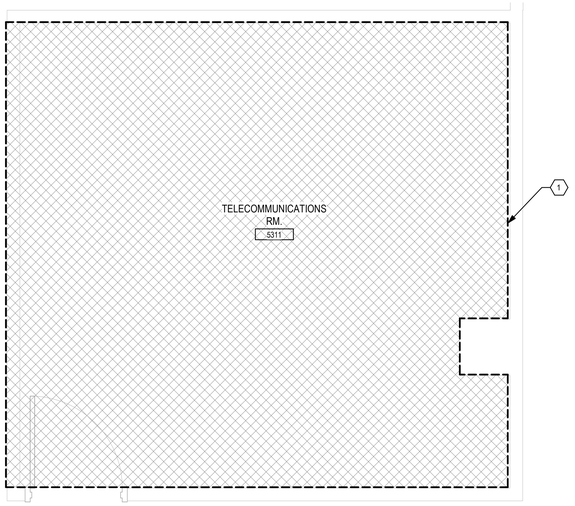
KEY NOTES

1. AREA SHOWN CROSS-HATCHED INDICATES SCOPE OF FIRE SPRINKLER WORK. RECONFIGURE PIPING FOR PROPER HEAD PLACEMENT & INSTALL UPRIGHT SPRINKLER HEADS IN THIS AREA PER NFPA 13 ORDINARY HAZARD GROUP 1 OCCUPANCY. DO NOT PLACE SPRINKLER HEADS ABOVE IT OR ELECTRICAL EQUIPMENT. ROOM PLANNED AS ANSI/TIA-942-B RATING 1.



1 BUILDING 111 LEVEL 05 FLOOR PLAN - FIRE PROTECTION
1" = 30'-0"



2 RM. 5311 ENLARGED PLAN - FIRE PROTECTION
1/2" = 1'-0"

TRUE NORTH
PLAN NORTH

0' 15' 30' 60'
Graphic Scale : 1" = 30'-0"

Revisions:	Date:

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Drawing Title: BUILDING 111 LEVEL 05 - FIRE PROTECTION FLOOR PLAN	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES – MILWAUKEE, WI	Project Number: 695-21-700
			Building Number: 111
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Drawing Number: 111-FP106
		Issue Date: SEPTEMBER 5, 2025 / Checked: AW / Drawn: DAW	

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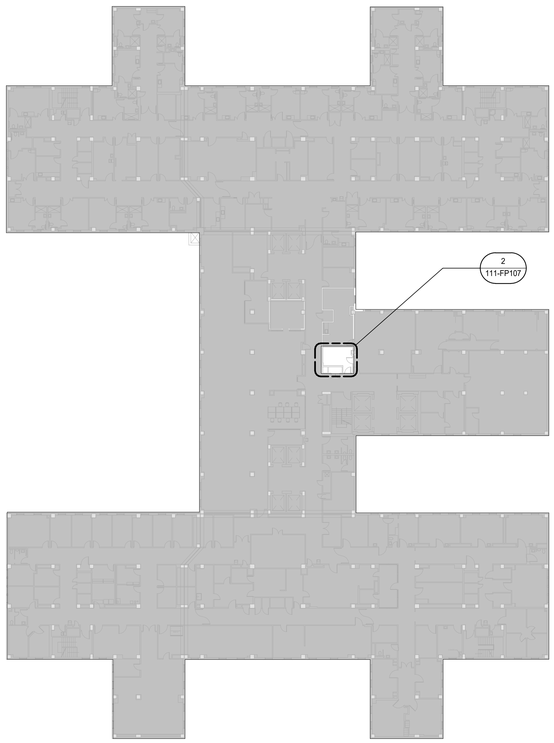
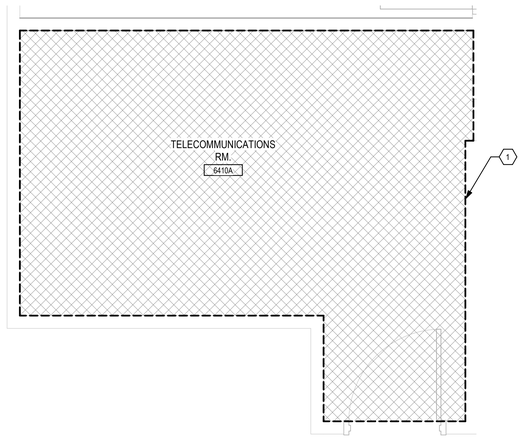
KEY NOTES

1. AREA SHOWN CROSS-HATCHED INDICATES SCOPE OF FIRE SPRINKLER WORK. RECONFIGURE PIPING FOR PROPER HEAD PLACEMENT & INSTALL UPRIGHT SPRINKLER HEADS IN THIS AREA PER NFPA 13 ORDINARY HAZARD GROUP 1 OCCUPANCY. DO NOT PLACE SPRINKLER HEADS ABOVE IT OR ELECTRICAL EQUIPMENT. ROOM PLANNED AS ANSI/TIA-942-B RATING 1.



1 BUILDING 111 LEVEL 06 FLOOR PLAN - FIRE PROTECTION
1" = 30'-0"



2 RM. 6410A ENLARGED PLAN - FIRE PROTECTION
1/2" = 1'-0"

TRUE NORTH
PLAN NORTH

0' 15' 30' 60'
Graphic Scale : 1" = 30'-0"

Revisions:	Date:

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WISCONSIN 36725 ARIEL G. WIECZOREK #42666-6 SWISHER IOWA PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING 111 LEVEL 06 - FIRE PROTECTION FLOOR PLAN	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES – MILWAUKEE, WI	Project Number: 695-21-700
			Building Number: 111
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Drawing Number: 111-FP107
		Issue Date: SEPTEMBER 5, 2025 / Checked: AW / Drawn: DAW	

Graphic Scale : 3/16" = 1'-0"
Graphic Scale : 1/2" = 1'-0"
Graphic Scale : 3/4" = 1'-0"
Graphic Scale : 1" = 1'-0"
Graphic Scale : 1 1/2" = 1'-0"
Graphic Scale : 1/8" = 1'-0"
Graphic Scale : 3/32" = 1'-0"
Graphic Scale : 1/4" = 1'-0"
Graphic Scale : 1/16" = 1'-0"

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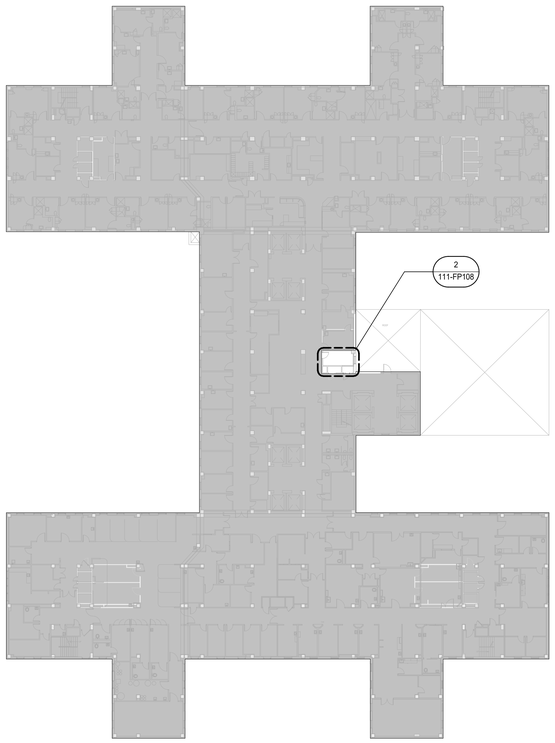
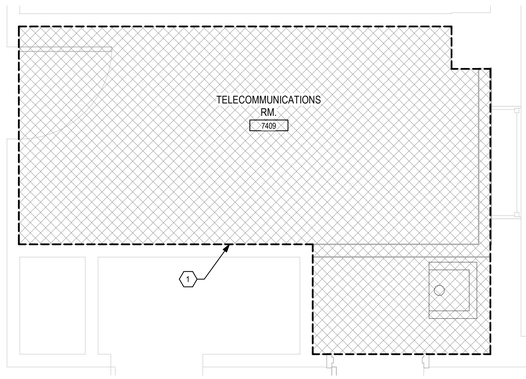
8/30/2025 9:57:16 AM
VA FORM 08 - 6231

KEY NOTES

1. AREA SHOWN CROSS-HATCHED INDICATES SCOPE OF FIRE SPRINKLER WORK. RECONFIGURE PIPING FOR PROPER HEAD PLACEMENT & INSTALL UPRIGHT SPRINKLER HEADS IN THIS AREA PER NFPA 13 ORDINARY HAZARD GROUP 1 OCCUPANCY. DO NOT PLACE SPRINKLER HEADS ABOVE IT OR ELECTRICAL EQUIPMENT. ROOM PLANNED AS ANSI/TIA-942-B RATING 1.



1 BUILDING 111 LEVEL 07 FLOOR PLAN - FIRE PROTECTION
1" = 30'-0"



2 RM. 7412 ENLARGED PLAN - FIRE PROTECTION
1/2" = 1'-0"

TRUE NORTH
PLAN NORTH

0' 15' 30' 60'
Graphic Scale : 1" = 30'-0"

Revisions:	Date:

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ARED G. WIECZOREK
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PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING 111 LEVEL 07 - FIRE PROTECTION FLOOR PLAN	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES – MILWAUKEE, WI	Project Number: 695-21-700
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Building Number: 111
		Issue Date: SEPTEMBER 5, 2025 / Checked: AW / Drawn: DAW	Drawing Number: 111-FP108

VA FORM 08 - 6231

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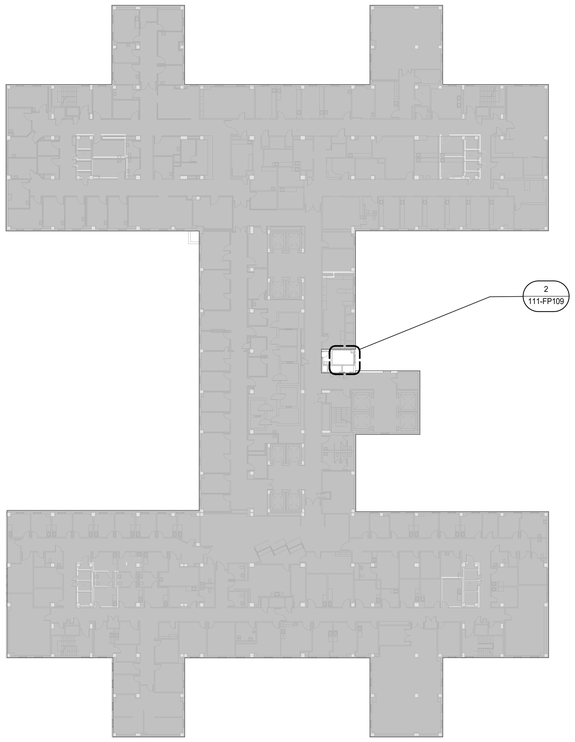
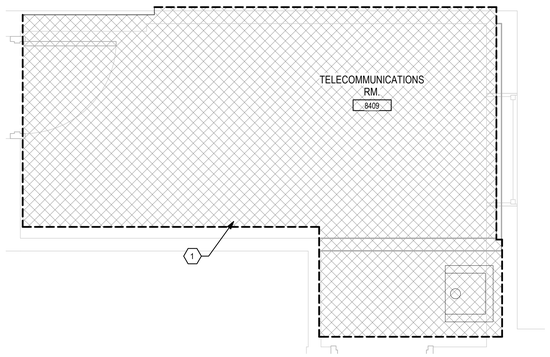
KEY NOTES

1. AREA SHOWN CROSS-HATCHED INDICATES SCOPE OF FIRE SPRINKLER WORK. RECONFIGURE PIPING FOR PROPER HEAD PLACEMENT & INSTALL UPRIGHT SPRINKLER HEADS IN THIS AREA PER NFPA 13 ORDINARY HAZARD GROUP 1 OCCUPANCY. DO NOT PLACE SPRINKLER HEADS ABOVE IT OR ELECTRICAL EQUIPMENT. ROOM PLANNED AS ANSI/TIA-942-B RATING 1.



1 BUILDING 111 LEVEL 08 FLOOR PLAN - FIRE PROTECTION
1" = 30'-0"



2 RM. 8409 ENLARGED PLAN - FIRE PROTECTION
1/2" = 1'-0"

TRUE NORTH
PLAN NORTH

0' 15' 30' 60'
Graphic Scale : 1" = 30'-0"

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VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING 111 LEVEL 08 - FIRE PROTECTION FLOOR PLAN

Approved:

Phase: FINAL BID DOCUMENTS

Sprinklered: FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES – MILWAUKEE, WI

Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI

Issue Date: SEPTEMBER 5, 2025

Checked: AW

Drawn: DAW

Project Number: 695-21-700

Building Number: 111

Drawing Number: 111-FP109

Graphic Scale : 1/8" = 1'-0"
Graphic Scale : 3/32" = 1'-0"
Graphic Scale : 1/4" = 1'-0"
Graphic Scale : 3/16" = 1'-0"
Graphic Scale : 1/2" = 1'-0"
Graphic Scale : 3/4" = 1'-0"
Graphic Scale : 1" = 1'-0"
Graphic Scale : 1 1/2" = 1'-0"

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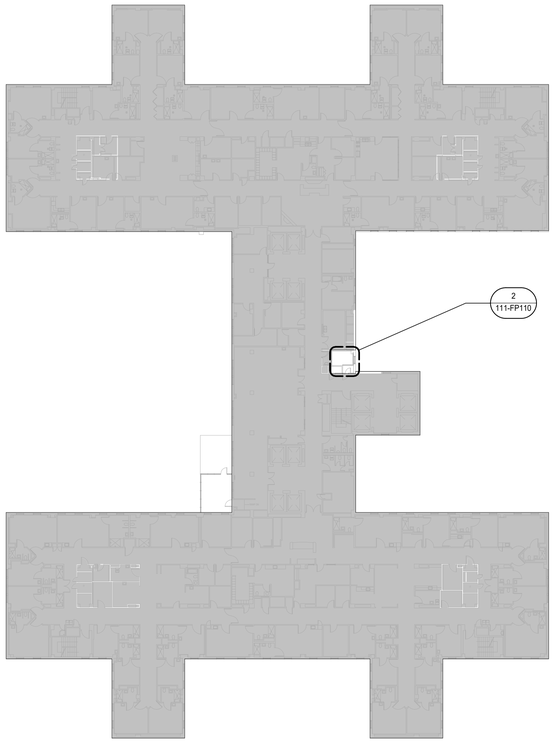
KEYNOTES

1. AREA SHOWN CROSS-HATCHED INDICATES SCOPE OF FIRE SPRINKLER WORK. RECONFIGURE PIPING FOR PROPER HEAD PLACEMENT & INSTALL UPRIGHT SPRINKLER HEADS IN THIS AREA PER NFPA 13 ORDINARY HAZARD GROUP 1 OCCUPANCY. DO NOT PLACE SPRINKLER HEADS ABOVE IT OR ELECTRICAL EQUIPMENT. ROOM PLANNED AS ANSI/TIA-942-B RATING 1.



1 BUILDING 111 LEVEL 09 FLOOR PLAN - FIRE PROTECTION
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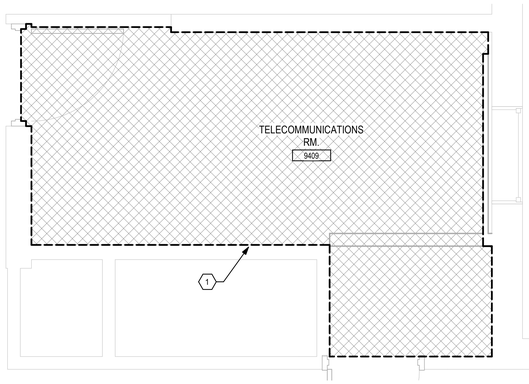

2 RM. 9409 ENLARGED PLAN - FIRE PROTECTION
1/2" = 1'-0"

TRUE NORTH
PLAN NORTH

0' 15' 30' 60'
Graphic Scale : 1" = 30'-0"

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VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING 111 LEVEL 09 - FIRE PROTECTION FLOOR PLAN	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES – MILWAUKEE, WI		Project Number: 695-21-700
				Building Number: 111
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI		Drawing Number: 111-FP110
		Issue Date: SEPTEMBER 5, 2025	Checked: AW	Drawn: DAW

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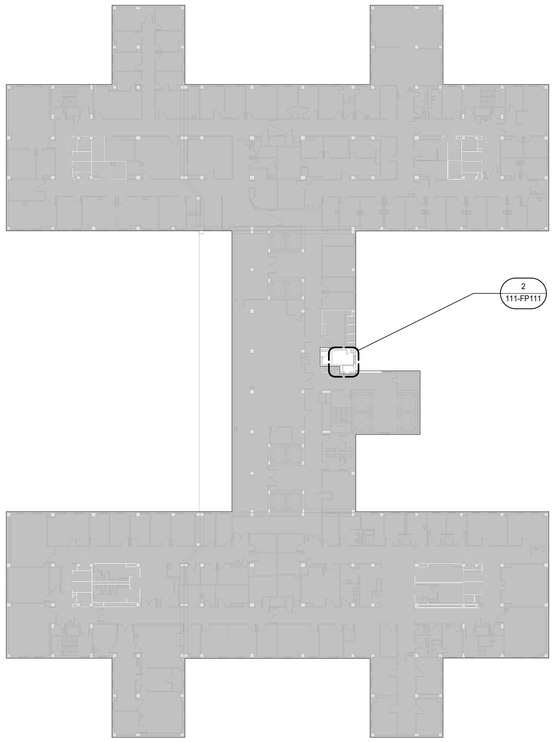
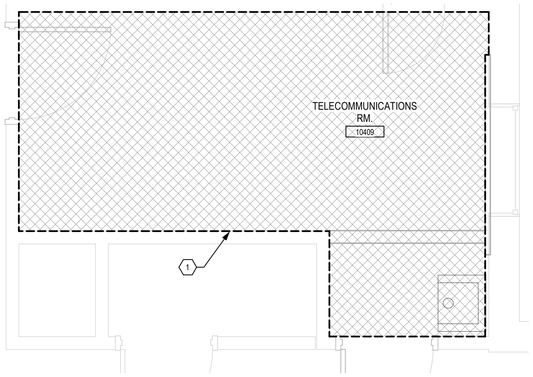
KEY NOTES

1. AREA SHOWN CROSS-HATCHED INDICATES SCOPE OF FIRE SPRINKLER WORK. RECONFIGURE PIPING FOR PROPER HEAD PLACEMENT & INSTALL UPRIGHT SPRINKLER HEADS IN THIS AREA PER NFPA 13 ORDINARY HAZARD GROUP 1 OCCUPANCY. DO NOT PLACE SPRINKLER HEADS ABOVE IT OR ELECTRICAL EQUIPMENT. ROOM PLANNED AS ANSI/TIA-942-B RATING 1.



1 BUILDING 111 LEVEL 10 FLOOR PLAN - FIRE PROTECTION
1" = 30'-0"



2 RM. 10409 ENLARGED PLAN - PLUMBING
1/2" = 1'-0"

TRUE NORTH
PLAN NORTH

0' 15' 30' 60'
Graphic Scale : 1" = 30'-0"

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Drawing Title: BUILDING 111 LEVEL 10 - FIRE PROTECTION FLOOR PLAN	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES – MILWAUKEE, WI	Project Number: 695-21-700
			Building Number: 111
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Drawing Number: 111-FP111
		Issue Date: SEPTEMBER 5, 2025 / Checked: AW / Drawn: DAW	

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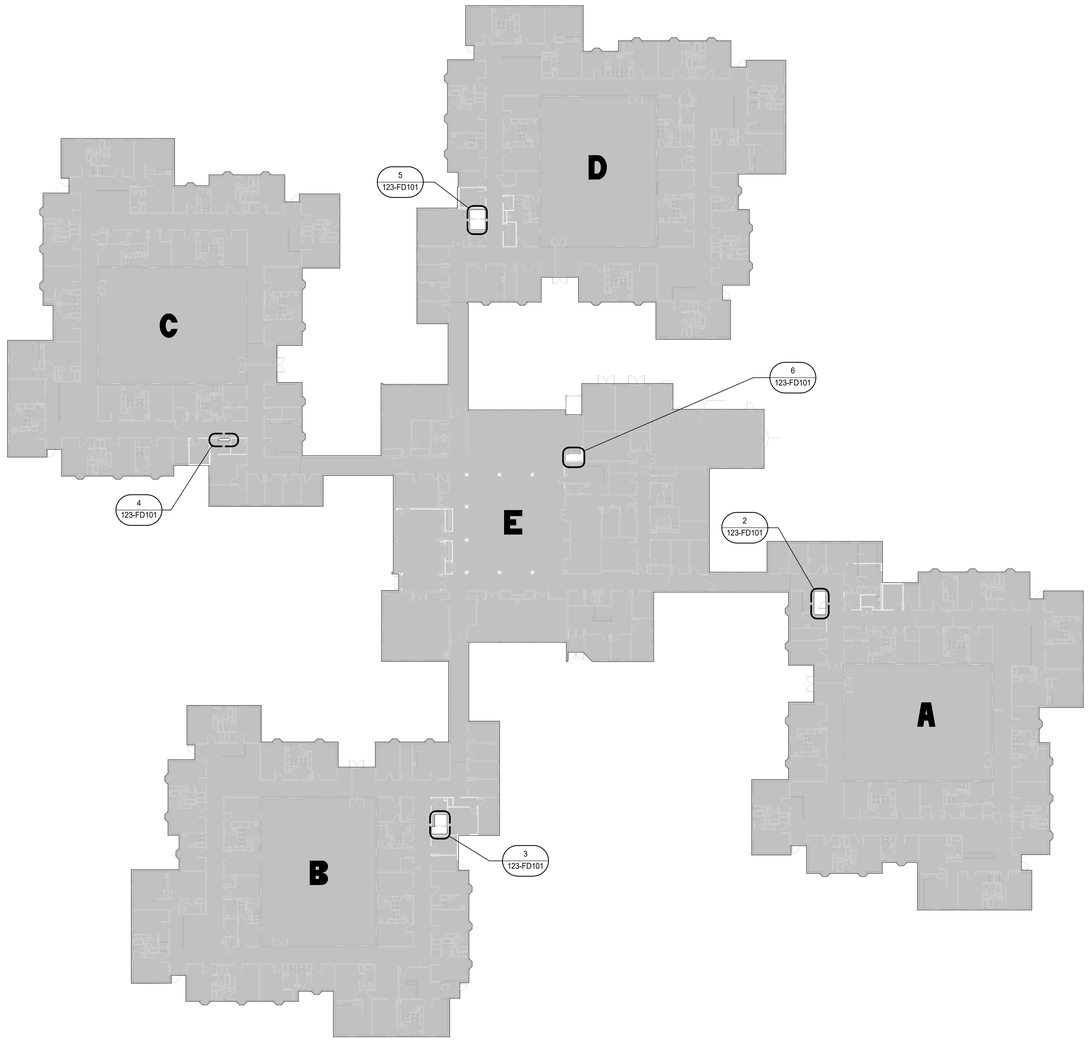
8/30/2025 9:37:32 AM

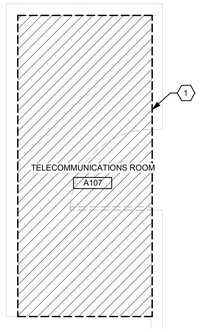
Graphic Scale : 1/16" = 1'-0"
Graphic Scale : 1/8" = 1'-0"
Graphic Scale : 3/32" = 1'-0"
Graphic Scale : 1/4" = 1'-0"
Graphic Scale : 3/16" = 1'-0"
Graphic Scale : 1/2" = 1'-0"
Graphic Scale : 3/4" = 1'-0"
Graphic Scale : 1" = 1'-0"
Graphic Scale : 1 1/2" = 1'-0"

KEY NOTES

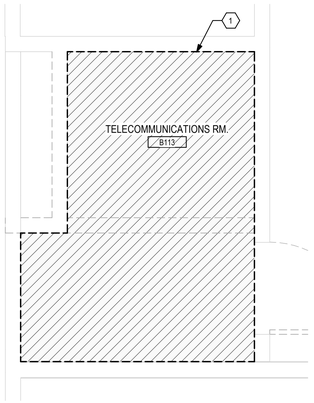
1. AREA SHOWN CROSS-HATCHED INDICATES SCOPE OF FIRE SPRINKLER DEMOLITION WORK. COORDINATE SYSTEM SHUT DOWN, FIRE WATCH, AND DEMOLITION WITH NFPA REQUIREMENTS & VA SITE REQUIREMENTS. REMOVE EXISTING SPRINKLER HEADS, FITTINGS, & SHORT SECTIONS OF PIPE, AS NEEDED FOR INSTALLATION OF NEW BRANCH PIPE AND SPRINKLER HEADS.



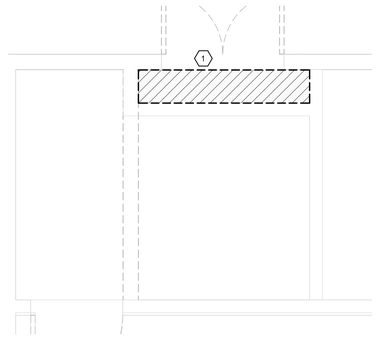
1 BUILDING 123 LEVEL 01 FLOOR PLAN - FIRE PROTECTION DEMOLITION
1" = 30'-0"



2 RM. A107 ENLARGED PLAN - FIRE PROTECTION DEMOLITION
3/8" = 1'-0"



3 RM. B113 ENLARGED PLAN - FIRE PROTECTION DEMOLITION
1/2" = 1'-0"



4 RM. C113 ENLARGED PLAN - FIRE PROTECTION DEMOLITION
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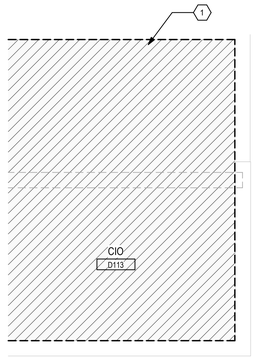

5 RM. D113 ENLARGED PLAN - FIRE PROTECTION DEMOLITION
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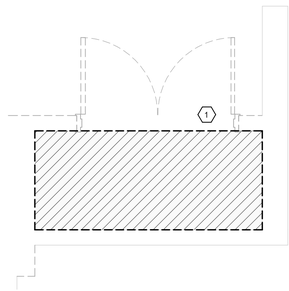

6 RM. E105E ENLARGED PLAN - FIRE PROTECTION DEMOLITION
1/2" = 1'-0"

TRUE NORTH
PLAN NORTH

0' 15' 30' 60'
Graphic Scale : 1" = 30'-0"

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Drawing Title: BUILDING 123 LEVEL 01 OVERALL AND ENLARGED - FIRE PROTECTION DEMOLITION PLAN	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES – MILWAUKEE, WI	Project Number: 695-21-700
			Building Number: 123
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Drawing Number: 123-FD101
		Issue Date: SEPTEMBER 5, 2025 / Checked: AW / Drawn: DAW	

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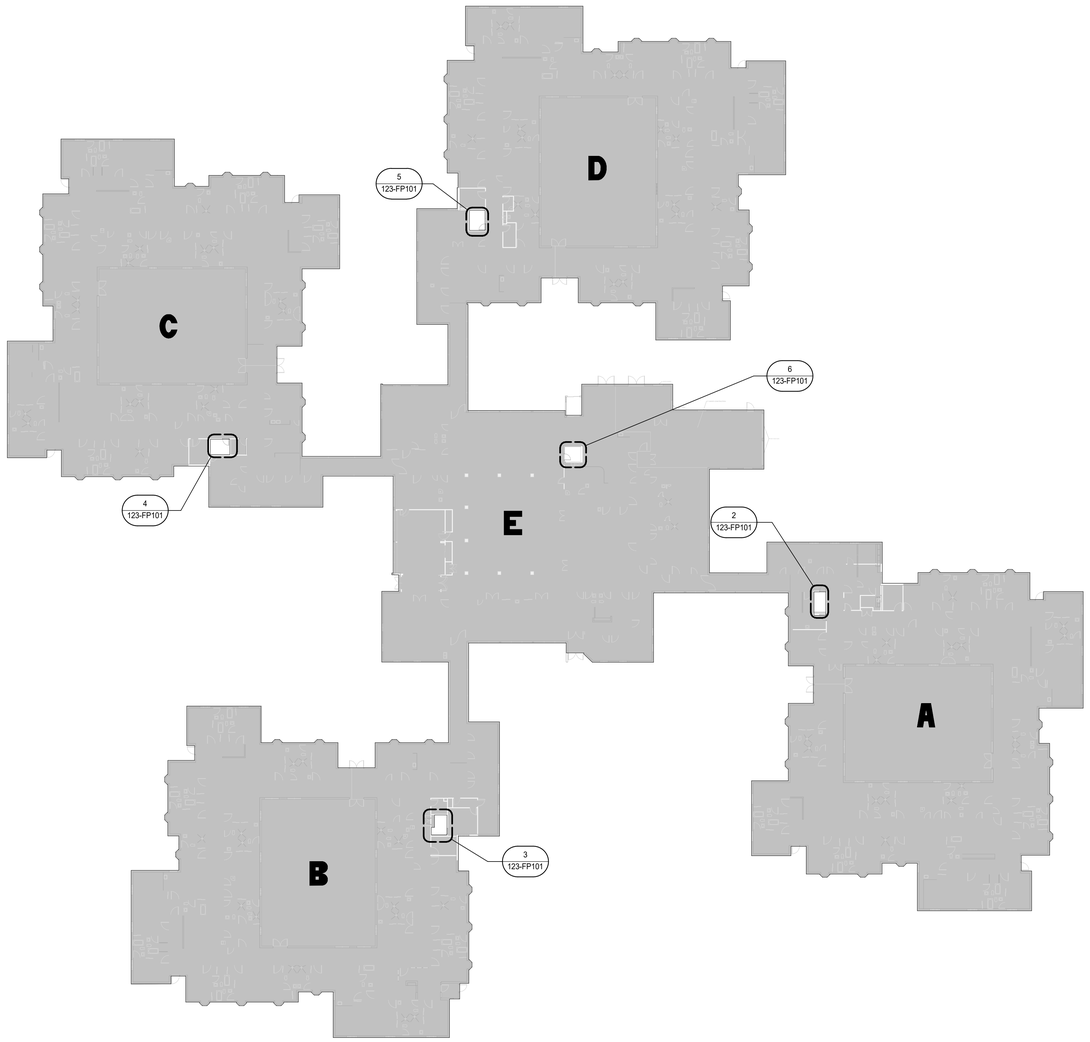
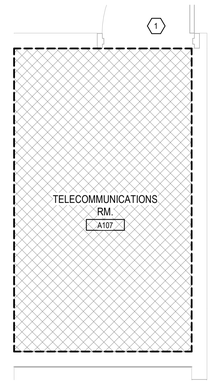
KEY NOTES

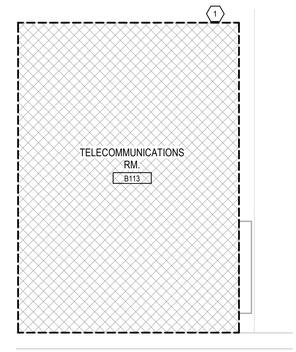
1. AREA SHOWN CROSS-HATCHED INDICATES SCOPE OF FIRE SPRINKLER WORK. RECONFIGURE PIPING FOR PROPER HEAD PLACEMENT & INSTALL UPRIGHT SPRINKLER HEADS IN THIS AREA PER NFPA 13 ORDINARY HAZARD GROUP 1 OCCUPANCY. DO NOT PLACE SPRINKLER HEADS ABOVE IT OR ELECTRICAL EQUIPMENT. ROOM PLANNED AS ANSI/TIA-942-B RATING 1.



1 BUILDING 123 LEVEL 01 PLAN - FIRE PROTECTION
1" = 30'-0"



2 RM. A107 ENLARGED PLAN - FIRE PROTECTION
1/2" = 1'-0"



3 RM. B113 ENLARGED PLAN - FIRE PROTECTION
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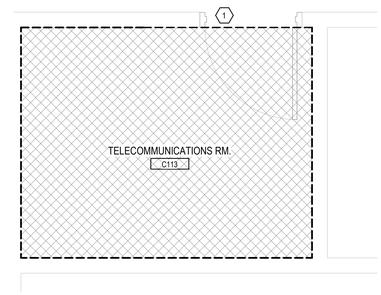
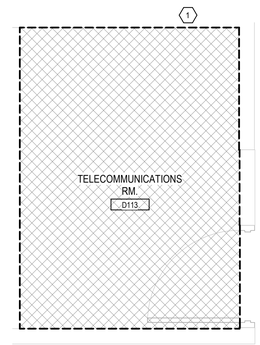
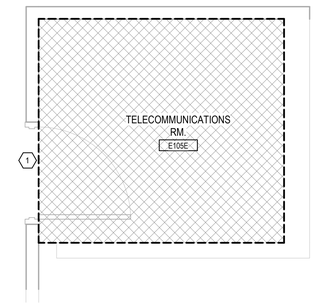


4 RM. C113 ENLARGED PLAN - FIRE PROTECTION
1/2" = 1'-0"



5 RM. D113 ENLARGED PLAN - FIRE PROTECTION
1/2" = 1'-0"



6 RM. E105E ENLARGED PLAN - FIRE PROTECTION
1/2" = 1'-0"

TRUE NORTH
PLAN NORTH

0' 15' 30' 60'
Graphic Scale : 1" = 30'-0"

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING 123 LEVEL 01 OVERALL AND ENLARGED - FIRE PROTECTION FLOOR PLAN	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES – MILWAUKEE, WI	Project Number: 695-21-700
			Building Number: 123
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Drawing Number: 123-FP101
		Issue Date: SEPTEMBER 5, 2025 / Checked: AW / Drawn: DAW	

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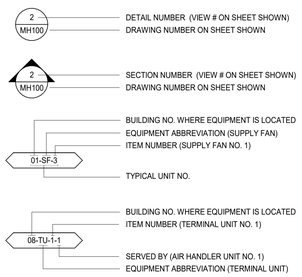
PLUMBING ABBREVIATIONS

AG	AIR GAP
AP	ACCESS PANEL
CO	CLEANOUT
CS	CLINICAL SINK
CV	CONTROL VALVE
CW	COLD WATER (DOMESTIC/POTABLE)
DCW	DOMESTIC COLD WATER (POTABLE)
DFU	DRAINAGE FIXTURE UNITS
DHW	DOMESTIC HOT WATER (POTABLE)
DHWR	DOMESTIC HOT WATER RETURN (POTABLE)
DHWS	DOMESTIC HOT WATER SUPPLY
DN	DOWN
DWV	DRAIN WASTE VENT
EWS	EYE WASH STATION
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FS	FLOW SWITCH
FU	FIXTURE UNITS
G	GAS
H&CW	HOT AND COLD WATER
HB	HOSE BIBB
HD	HUB DRAIN
HS	HAND SINK
HW	HOT WATER (DOMESTIC/POTABLE)
HWR	HOT WATER RECIRCULATION (DOMESTIC/POTABLE)
HYD	HYDRANT
IE	INVERT ELEVATION
INV	INVERT
LA	LAB AIR
LV	LAB VENT
MA	MEDICAL AIR
MED	MEDICAL
MSB	MOP SERVICE BASIN
MV	MEDICAL VENT
N^2	NITROGEN
N^20	NITROUS OXIDE
O^2	OXYGEN
RD	ROOF DRAIN
REF	REFRIGERANT
RP	RECIRCULATION PUMP
SAN	SANITARY SEWER
SCH	SCHEDULE
SPR	SPRINKLER LINE
ST	STORM WATER DRAINAGE
TCV	TEMPERATURE CONTROL VALVE
TMV	THERMOSTATIC MIXING VALVE
TP	TRAP PRIMER
TSTAT	THERMOSTAT
V	VENT
VAC	VACUUM
VTR	VENT THROUGH ROOF
W	WASTE
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT
WHE	WATER HEATER
WHA	WATER HAMMER ARRESTER
WSFU	WATER SUPPLY FIXTURE UNITS

DRAWING SYMBOLS



GENERAL ABBREVIATIONS

A/E	ARCHITECTS AND ENGINEERS
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AMB	AMBIENT
ARI	AIR CONDITIONING AND REFRIGERATION INSTITUTE
ASHP	AIR SOURCE HEAT PUMP
ASHRAE	AMERICAN SOCIETY OF HEATING REFRIGERATION AIR CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS
BLDG	BUILDING
BMT	BONE MARROW TRANSPLANT
CENT	CENTRIFUGAL
CO2	CARBON DIOXIDE
DEMO	DEMOLITION
DWG	DRAWING
EA	EXHAUST AIR
ETO	ETHYLENE OXIDE
ESMT	EASEMENT
EL	ELEVATION
ELEC	ELECTRIC OR ELECTRICAL
EPA	ENVIROMENTAL PROTECTION AGENCY
EPACT	ENERGY POLICY ACT
EX	EXISTING (OR EXIST)
GA	GAUGE
GS	GALVANIZED STEEL
HAC	HOUSEKEEPING AIDE'S CLOSET
IBC	INTERNATIONAL BUILDING CODE
IESNA	ILLUMINATION ENGINEERING SOCIETY OF NORTH...
I/O	INPUT/OUTPUT
ICU	INTENSIVE CARE UNIT
ID	INSIDE DIAMETER
IPC	INTERNATIONAL PLUMBING CODE
ITAC	INFORMATION TECHNOLOGY AIR CONDITIONING
LPG	LIQUID PROPANE GAS
MAX	MAXIMUM
MECH	MECHANICAL
MER	MECHANICAL EQUIPMENT ROOM
MH	MANHOLE
MIN	MINIMUM
MRI	MAGNETIC RESONANCE IMAGING
NA	NOT APPLICABLE (ALSO N/A)
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFC	NATIONAL FIRE CODES
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NOAA	NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION
NOM	NOMINAL
NSPC	NATIONAL STANDARD PLUMBING CODE
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OC	ON CENTER
OD	OUTSIDE DIAMETER
OR	OPERATING ROOM
PGW	PROPYLENE GLYCOL-WATER SOLUTION
PSS	PRIMARY SECONDARY SYSTEM
R/E	RETURN OR EXHAUST
RA	RETURN AIR
REQD	REQUIRED
RDS	ROOM DATA SHEETS
RO	REVERSE OSMOSIS
RM	ROOM
SA	SUPPLY AIR
SCI	SPINAL CODE INJURY
SEN	SENSIBLE HEAT
SHT	SHEET
SI	INTERNATIONAL SYSTEM OF UNITS
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS...
SPEC	SPECIFICATION
SS	STAINLESS STEEL
TYP	TYPICAL
TEMP	TEMPERATURE
UL	UNDERWRITER'S LABORATORY
UPC	UNIVERSAL PLUMBING CODE
UTIL	UTILITY
VA	DEPARTMENT OF VETERANS AFFAIRS
VHA	VETERANS HEALTH ADMINISTRATION
VBA	VETERANS BENEFITS ADMINISTRATION
VAHBS	VA HOSPITAL BUILDING SYSTEM
VAMCS	VA MASTER CONSTRUCTION SPECIFICATIONS
WCPU	WATER-COOLED PACKAGED UNIT
XFER	TRANSFER

UNITS OF MEASURE

APD	AIR SIDE PRESSURE DROP
BHP	BRAKE HORSE POWER
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
C	CENTIGRADE (CELSIUS)
CFM	CUBIC FEET PER MINUTE
CFH	CUBIC FEET PER HOUR
CFT	CUBIC FEET
CM	CUBIC METER
CM/S	CENTIMETER PER SECOND
COP	COEFFICIENT OF PERFORMANCE
DB	DRY-BULB TEMPERATURE
dB	DECIBEL
DEG	DEGREE
DIA	DIAMETER
DP	DEWPOINT
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EGT	ENTERING GLYCOL TEMPERATURE
ENT	ENTERING
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
F	FAHRENHEIT
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FT	FEET
FT-LB	FOOT-POUND
FT-WC	FEET OF WATER COLUMN
GA	GAUGE
GAL	GALLONS
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
HT	HEIGHT
HZ	HERTZ
IN	INCHES
IN HG	INCHES OF MERCURY
IN WG	INCH WATER GAUGE
IN-LB	INCH-POUND
IPLV	INTEGRATED PART LOAD VALUE
KG	KILOGRAM
KG/HR	KILOGRAM PER HOUR
kPA	KILO PASCAL
kW	KILOWATT
kWH	KILOWATT HOUR
L	LITER
LF	LINEAR FEET (FOOT)
L/H	LITERS PER HOUR
L/M	LITERS PER MINUTE
L/S	LITERS PER SECOND
LAT	LEAVING AIR TEMPERATURE
LBS/HR	POUNDS PER HOUR
LF	LINEAR FOOT (FEET)
LGT	LEAVING GLYCOL TEMPERATURE
LH	LATENT HEAT
LVG	LEAVING
LWT	LEAVING WATER TEMPERATURE
M	METER
MAX	MAXIMUM
MBH	1000 BTUH
MCA	MAXIMUM CURRENT AMPACITY
MCA	MULTICHANNEL ANALYZER
MERV	MINIMUM EFFICIENCY REPORTING VALUE
MHP	MOTOR HORSEPOWER
MIN	MINIMUM
MM	MILLIMETER
M/S	METERS PER SECOND
MTD	MEAN TEMPERATURE DIFFERENCE
NC	NOISE CRITERIA
Nm	NEWTON-METER
NPLV	NON-STANDARD PART LOAD VALUE
PA	PASCAL
PPM	PARTS PER MILLION
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH ATMOSPHERE
PSIG	POUNDS PER SQUARE INCH-GAGE
RAT	RETURN AIR TEMPERATURE
RPM	REVOLUTIONS PER MINUTE
SI	SQUARE INCHES
SAT	SUPPLY AIR TEMPERATURE
SCFM	STANDARD CUBIC FEET PER MINUTE
SP GR	SPECIFIC GRAVITY
SQ FT	SQUARE FOOT (FEET)
SQ M	SQUARE METER
TD	TEMPERATURE DIFFERENCE
TSP	TOTAL STATIC PRESSURE
W	WATTS
WB	WET-BULB (TEMPERATURE)

GENERAL PLUMBING NOTES

1. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE DEPARTMENT OF VETERANS AFFAIRS (VA) STANDARDS.
2. ALL WORK SHALL BE IN CONFORMANCE WITH THE INTERNATIONAL PLUMBING CODE - LATEST EDITION ADOPTED BY THE VA. THE VA SERVES AS AUTHORITY HAVING JURISDICTION.
3. THESE DOCUMENTS ARE INTENDED TO COMPLY WITH APPLICABLE CODES. WHERE DISCREPANCIES OCCUR, NOTIFY THE ENGINEER/ARCHITECT IN WRITING FOR INTERPRETATION. CORRECT ANY INSTALLATION THAT FAILS TO COMPLY WITH THE CODES AND STANDARDS AT NO ADDITIONAL COST TO THE OWNER.
4. CONTRACTOR SHALL PROVIDE ALL WORK NECESSARY INCLUDING ALL LABOR, MATERIALS, PERMITS, TAXES, FEES, INSPECTIONS, HARDWARE, AND COST FOR INSTALLATION FOR A COMPLETE AND OPERATIONAL SYSTEM.
5. ALL MATERIALS FURNISHED BY THE CONTRACTOR SHALL BE NEW, COMPLETE WITH MANUFACTURER'S GUARANTEE OR WARRANTY AND SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.
6. PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE SEALED WITH APPROPRIATE FIRE PROOFING MATERIALS TO RESTORE FIRE RATING. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATED WALLS.
7. CONTRACTOR SHALL KEEP THE WORK AREA CLEAN OF ALL DEBRIS ON A DAILY BASIS. ALL NEW MATERIALS AWAITING INSTALLATION SHALL BE KEPT IN AREAS DESIGNATED BY THE OWNER.
8. DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS. REFER TO DIMENSIONED ARCHITECTURAL FLOOR PLANS. IF THE DIMENSIONS CANNOT BE DETERMINED BY THE INFORMATION GIVEN, CONTRACTOR SHALL CONTACT THE ENGINEER FOR ADDITIONAL INFORMATION.
9. PERIODIC SITE OBSERVATION BY THE ENGINEER IS SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK OF THE CONTRACTOR IS PROCEEDING IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THIS LIMITED SITE OBSERVATION SHOULD NOT BE CONSTRUED AS EXHAUSTIVE OR CONTINUOUS TO CHECK THE QUALITY OR QUANTITY OF THE WORK, BUT RATHER PERIODIC IN AN EFFORT TO GUARD THE OWNER AGAINST DEFECTS OR DEFICIENCIES IN THE WORK OF THE CONTRACTOR.
10. INFORMATION CONTAINED ON THE DRAWINGS IS IN ITSELF INCOMPLETE AND VOID UNLESS USED IN CONJUNCTION WITH ALL OTHER DISCIPLINE DRAWINGS, THE SPECIFICATIONS, TRADE PRACTICES, OR APPLICABLE STANDARDS, CODES, ETC., AND SHALL BE CONSIDERED THE CONTRACT DOCUMENTS AND WITH ALL THEREIN BY REFERENCE, WHICH THE CONTRACTOR CERTIFIES KNOWLEDGE OF BY SIGNING THE CONTRACT.
11. CONTRACTOR IS TO ASSUME FULL RESPONSIBILITY, UNRELIEVED BY REVIEW OF SHOP DRAWINGS OR PERIODIC OBSERVATION OF CONSTRUCTION, FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS, FOR DIMENSIONS TO BE CONFIRMED AND CORRELATED ON THE JOB SITE AND BETWEEN INDIVIDUAL DRAWINGS OR SETS OF DRAWINGS FOR FABRICATION PROCESSES AND CONSTRUCTION TECHNIQUES (INCLUDING EXCAVATION, SHORING, SCAFFOLDING, BRACING, ERECTION, FORM WORK, ETC.), FOR COORDINATION OF THE VARIOUS TRADES, AND FOR SAFE CONDITIONS ON THE JOB SITE. VARIATIONS IN FIELD CONDITIONS RELATIVE TO THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE ENGINEER AS SOON AS THEY ARE FOUND. WORK SHALL NOT PROGRESS UNTIL WRITTEN PERMISSION FROM THE ENGINEER IS OBTAINED.
12. ALL EQUIPMENT AND ACCESSORIES SHALL BE INSTALLED SO AS TO BE EASILY ACCESSIBLE. ALL CLEARANCES FOR EQUIPMENT PER MANUFACTURERS GUIDELINES AND CODE COMPLIANCE SHALL BE REQUIRED.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION ASSOCIATED WITH PERMITS, METERS, AND WATER MAINS.
14. WALL CLEANOUTS, ACCESS PANELS, ETC. TO BE LOCATED IN BACK OF- HOUSE AREAS UNLESS CONDITIONS DICTATE OTHERWISE. COORDINATE WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
15. PROVIDE ACCESS PANELS FOR VALVES, ETC. THAT ARE LOCATED IN CONCEALED AREAS. COORDINATE WITH GENERAL CONTRACTOR FOR EXACT LOCATION AND WITH ARCHITECTURAL PLANS FOR FINISHES.
16. ALL COMPONENTS OF SYSTEMS SHALL BE PROVIDED FOR A COMPLETELY OPERATIONAL, UNDERSTANDABLE, SAFE, AND CLEAN SYSTEM; INCLUDING BUT NOT LIMITED TO EXTRANEOUS FIXTURE TRIM AS SPECIFIED, MEDICAL GAS OUTLETS, LABELS, SERVICE AND COMMISSIONING INTO OPERATION, TESTING AND CLEANING, FIRE AND LIFE SAFETY REQUIREMENTS, AND CONSIDERING THE REQUESTS OF OWNERS PERSONNEL.
17. ELECTRICAL PANELS SHOWN FOR REFERENCE. DO NOT ROUTE ANY COMPONENTS ABOVE OR IN FRONT OF ELECTRICAL EQUIPMENT. MAINTAIN CODE REQUIRED CLEARANCES.
18. PLANS ARE DIAGRAMMATIC AND INTENDED TO CONVEY SCOPE OF WORK AND GENERAL LOCATIONS OF EQUIPMENT, MATERIALS, ETC. NOT ALL RISERS, DROPS, OFFSETS, VALVES, ETC. ARE SHOWN. PROVIDE RISERS, DROPS, OFFSETS, VALVES, ETC. AS REQUIRED TO MEET SPACE REQUIREMENTS AND TO AVOID INTERFERENCES WITH OTHER TRADES. MAKE FINAL CONNECTIONS TO FIXTURES, EQUIPMENT, ETC. AS REQUIRED AND/OR PER MANUFACTURER'S RECOMMENDATIONS.
19. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LAYOUT OWN WORK ACCORDINGLY AND IS RESPONSIBLE FOR DETERMINING EXACT LOCATIONS FOR EQUIPMENT, MATERIALS, ETC.
20. THE EXISTING PLUMBING SYSTEMS SHALL BE MODIFIED PER SPECIFIED PLANS AND SPECIFICATIONS. FIELD VERIFY EXISTING PLUMBING SYSTEMS REQUIREMENTS PRIOR TO BIDDING.
21. COORDINATE SCOPE OF WORK WITH THE WORK OF OTHER TRADES PRIOR TO INSTALLATION. ISSUES DUE TO LACK OF COORDINATION EFFORT WILL BE CORRECTED AT NO ADDITIONAL COST TO THE OWNER.
22. COORDINATE LOCATION OF SYSTEM COMPONENTS WITHIN LIMITS OF STRUCTURE AND OTHER ENGINEERED SYSTEMS. ROUTE ALL PIPING IN CONCEALED SPACES AND INSTALL PIPING AS HIGH AS POSSIBLE. OFFSET SYSTEMS ROUTING AS REQUIRED, PROVIDING REQUIRED MATERIALS. PIPE SHALL NOT BE ROUTED IN EXTERIOR WALLS UNLESS NOTED. COORDINATE ROUTING OF PIPING TO MAINTAIN REQUIRED SERVICE CLEARANCES AROUND ANY EQUIPMENT AND ELECTRICAL ITEMS.
INFILL AND REPAIR TO MATCH EXISTING CONDITIONS ALL WALL, FLOOR, AND CEILING PENETRATIONS RESULTING FROM DEMOLISHED ITEMS, AND INSTALLATION OF NEW SYSTEMS. COORDINATE WITH GENERAL CONTRACTOR FOR COVERAGE OF THIS SCOPE.
23. ALL ELEMENTS OF CONSTRUCTION SHALL BE INSTALLED BY SKILLED TRADESMEN OF THERE PARTICULAR TRADE, AND INSTALLED IN A NEAT WORKMANLIKE MANNER KEEPING WITH THE HIGHEST STANDARDS OF THE TRADE.
24. COORDINATE SCOPE OF WORK WITH PROJECT SCHEDULES AGREED UPON BY OWNER AND ALL CONTRACTORS.
25. REFER TO SPECIFICATION MANUAL FOR FURTHER DETAILS ABOUT DESIGN STANDARDS, PRODUCTS, DRAWINGS, SUBMITTALS, DOCUMENTATION, COORDINATION, AND INSTALLATION.

GENERAL DEMOLITION NOTES

1. ALL PIPING AND DUCTWORK IS SHOWN SCHEMATICALLY BASED ON EXISTING PLANS. CONTRACTORS SHALL BE RESPONSIBLE FOR COORDINATION OF VERIFYING ROUTES OF ALL EXISTING CONDITIONS AND EXISTING UTILITIES PRIOR TO BIDDING AND STARTING OF WORK. IF CONDITIONS DIFFER GREATLY CONTACT ENGINEER.
2. CONDUCT A PRECONSTRUCTION AIR AND WATER FLOW TEST OF EXISTING SYSTEMS AND MAINS SERVING EACH AREA AND FLOOR BEFORE STARTING ANY DEMOLITION WORK. SUBMIT REPORT OF FLOWS AND FINDINGS TO ENGINEER AND OWNER.
3. COORDINATE SCHEDULE OF WORK WITH OWNER AND PROVIDE SUFFICIENT NOTICE BEFORE ANY SHUTDOWNS, TO MINIMIZE DISRUPTIONS TO ANY CONCURRENT OPERATIONS.
4. COMPLY WITH SITE SAFETY PROCEDURES OF OWNER, GENERAL CONTRACTOR, AND OSHA.
5. DEMOLISH MATERIALS, EQUIPMENT, AND ASSOCIATED SYSTEMS AS SHOWN WITHIN SCOPE OF WORK AREA AS DESIGNATED/NOTED. DEMOLISH ALL BRANCH DUCT AND PIPE, SUPPORTS, ACCESSORIES, EQUIPMENT, TERMINAL DEVICES, CONTROLS, WIRING, CONDUITS, AND ASSOCIATED ITEMS BACK TO RESPECTIVE MAINS. THEN CAP, SEAL, REPAIR, REINSULATE MAIN CONNECTIONS AS REQUIRED. NOTHING SHALL BE ABANDONED IN PLACE UNLESS NOTED OTHERWISE. REMOVE ALL DEMOLISHED ITEMS FROM SITE AND DISPOSE PROPERLY PER LOCAL LAWS.
6. HATCHED OR GRAYED OUT AREAS ARE NOT WITHIN CONTRACT BOUNDARY. COORDINATE WITH OWNER IF SUCH AREAS REQUIRE ACCESS TO COMPLETE SCOPE OF WORK, SUCH AS REMOVING A BRANCH MAIN BACK TO LARGER MAIN TO ELIMINATE DEAD LEGS.
7. INFILL AND REPAIR TO MATCH EXISTING CONDITIONS ALL WALL, FLOOR, AND CEILING PENETRATIONS RESULTING FROM DEMOLISHED ITEMS, AND INSTALLATION OF NEW SYSTEMS. COORDINATE WITH GENERAL CONTRACTOR FOR COVERAGE OF THIS SCOPE.
8. SAVE NOTED ITEMS FOR REUSE OR OWNERS SALVAGE. STORE NOTED ITEMS AND OTHER ITEMS IDENTIFIED BY OWNER IN OWNER'S DESIGNATED STORAGE AREA.
9. PROTECT EXISTING TO REMAIN EQUIPMENT, MATERIALS, AND SURROUND SITE FROM DAMAGE DURING DEMOLITION. REPAIRS AND REPLACEMENT OF EXISTING TO REMAIN CONDITIONS SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
10. REFER TO SPECIFICATION MANUAL FOR FURTHER DETAILS.

ROOMS IN SCOPE - PLUMBING

LEVEL	NUMBER	NAME	PLUMBING DEMO REQUIRED	PLUMBING NEW REQUIRED
BUILDING 03				
LEVEL 01	1454	TELECOMMUNICATIONS ROOM	No	Yes
BUILDING 04				
LEVEL 02	2110	TELECOMMUNICATIONS ROOM	Yes	Yes
BUILDING 05				
LEVEL 01	117	TELECOMMUNICATIONS ROOM	Yes	Yes
LEVEL 02	204	TELECOMMUNICATIONS ROOM	Yes	Yes
BUILDING 06				
LEVEL 01	6-1-C102	TELECOMMUNICATIONS ROOM	Yes	Yes
LEVEL 01	A104	EXISTING TELECOMMUNICATION RM.	Yes	Yes
LEVEL 01	B103	EXISTING TELECOMMUNICATION RM.	Yes	Yes
LEVEL 02	D203	TELECOMMUNICATIONS ROOM	Yes	Yes
LEVEL 03	C302	TELECOMMUNICATIONS ROOM	Yes	Yes
BUILDING 07				
BASEMENT	B09	EXISTING TELECOMMUNICATION RM.	Yes	Yes
BUILDING 20				
LEVEL 01	20-1-030	TELECOMMUNICATIONS ROOM	No	Yes
BUILDING 43				
LEVEL 01	A156	TELECOMMUNICATIONS ROOM	Yes	Yes
LEVEL 02	A201	TELECOMMUNICATIONS ROOM	Yes	Yes
BUILDING 70				
LEVEL 01	B-159	TELECOMMUNICATIONS ROOM	Yes	Yes
LEVEL 01	C-126	TELECOMMUNICATIONS ROOM	Yes	Yes
LEVEL 01	D-125	EXISTING TELECOMMUNICATION RM.	Yes	Yes
LEVEL 01	E-104	TELECOMMUNICATIONS ROOM	Yes	Yes
BUILDING 97				
LEVEL 01	005	TELECOMMUNICATIONS ROOM	No	Yes
BUILDING 102				
BASEMENT	B100FC	TELECOMMUNICATIONS ROOM	Yes	Yes
LEVEL 01	144	TELECOMMUNICATIONS ROOM	Yes	Yes
BUILDING 107				
LEVEL 02	200	TELECOMMUNICATIONS ROOM	No	Yes
BUILDING 108				
LEVEL 02	200	TELECOMMUNICATIONS ROOM	No	Yes
BUILDING 109				
BASEMENT	B001	TELECOMMUNICATIONS ROOM	No	Yes
BUILDING 111				
BASEMENT	B0610E	TELECOMMUNICATIONS ROOM	Yes	Yes
BASEMENT	B0622	TELECOMMUNICATIONS ROOM	Yes	Yes
BASEMENT	B0423	TELECOMMUNICATIONS ROOM	Yes	Yes
LEVEL 01	1180	TELECOMMUNICATIONS ROOM	Yes	Yes
LEVEL 01	1470	DEMARC ROOM	Yes	Yes
LEVEL 01	1471	SUBSTATION ROOM	Yes	Yes
LEVEL 01	1472	ELECTRICAL ROOM	Yes	Yes
LEVEL 01	1473	TELECOMMUNICATIONS ROOM	Yes	Yes
LEVEL 01	1537B	TELECOMMUNICATIONS ROOM	Yes	Yes
LEVEL 02	2235	TELECOMMUNICATIONS ROOM	Yes	Yes
LEVEL 02	2528A	TELECOMMUNICATIONS ROOM	Yes	Yes
LEVEL 02	2557	TELECOMMUNICATIONS ROOM	Yes	Yes
LEVEL 03	3308	TELECOMMUNICATIONS ROOM	Yes	Yes
LEVEL 04	4315	TELECOMMUNICATIONS ROOM	Yes	Yes
LEVEL 05	5311	TELECOMMUNICATIONS ROOM	Yes	Yes
LEVEL 06	6410A	TELECOMMUNICATIONS ROOM	Yes	Yes
LEVEL 07	7412	TELECOMMUNICATIONS ROOM	Yes	Yes
LEVEL 08	8409	TELECOMMUNICATIONS ROOM	Yes	Yes
LEVEL 09	9409	TELECOMMUNICATIONS ROOM	Yes	Yes
LEVEL 10	10409	TELECOMMUNICATIONS ROOM	Yes	Yes
BUILDING 112				
LEVEL 01	108	EXISTING TELECOMMUNICATION RM.	No	Yes
BUILDING 113				
BASEMENT	106	REFRIGERATION ROOM	No	No
BUILDING 123				
LEVEL 01	A107	TELECOMMUNICATIONS ROOM	Yes	Yes
LEVEL 01	B113	TELECOMMUNICATIONS ROOM	Yes	Yes
LEVEL 01	C113	TELECOMMUNICATIONS ROOM	Yes	Yes
LEVEL 01	D113	TELECOMMUNICATIONS ROOM	Yes	Yes
LEVEL 01	E105E	TELECOMMUNICATIONS ROOM	Yes	Yes
BUILDING 146				
BASEMENT	005	EXISTING TELECOMMUNICATION RM.	No	No
BUILDING 147				
BASEMENT	002	TELECOMMUNICATIONS ROOM	No	No
BUILDING 148				
BASEMENT	002	TELECOMMUNICATIONS ROOM	No	No

SYMBOLS - PLUMBING

SYSTEM LABEL	SYSTEM DESCRIPTION
—?"SYS (EX)—	GENERAL PIPING - EXISTING TO REMAIN
- — —?"— — -	GENERAL PIPING - TO BE DEMOLISHED
—?"SYS—	GENERAL PIPING - NEW WORK
—CD—	CONDENSATE DRAIN
—CW—	DOMESTIC COLD WATER
—HW—	DOMESTIC HOT WATER
—HWR—	DOMESTIC HOT WATER RETURN
—MA—	MEDICAL AIR
—O_2—	OXYGEN
—VAC—	MEDICAL VACUUM
—SAN—	SANITARY WASTE
- — -SAN- — -	SANITARY WASTE BELOW GRADE/SLAB
—ST (1,000)—	STORM DRAINAGE (SQ.F.T TOTAL)
- - - - -V- - - - -	VENT
—W—	WATER (DOMESTIC POTABLE WATER SERVICE)

SYSTEM LABEL	SYSTEM DESCRIPTION
	DEMOLISH TO THIS POINT
	NEW CONNECTION TO EXISTING
	BOTTOM CONNECTION
	END DROP / DOWN
	END UP / RISER
	HEADER FLANGE CAP
	PIPE END CAP
	RISE / DROP IN-LINE
	TEE DOWN
	TEE UP
	TOP CONNECTION
	UP & DN / RISER
	BACKFLOW PREVENTER (BFP-RPZ)

SYSTEM LABEL	SYSTEM DESCRIPTION
	CONTINUATION BREAK
	COUPLING
	DIRECTION OF FLOW
	DIRECTION OF PITCH
	REDUCER
	UNION
	VALVE - BALL, NORMALLY CLOSED
	VALVE - BALL, NORMALLY OPEN
	VALVE - CHECK
	VALVE - PPRESSURE REDUCING VALVE (PRV)
	VALVE - SHUT-OFF, NORMALLY CLOSED
	VALVE - SHUT-OFF, NORMALLY OPEN

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	CW (IN.)	HW (IN.)	SAN (IN.)	V (IN.)	DFU	WSFU	WRIST BLADE HANDLES	ELECTRIC SENSOR	NOTES
P-502	FLOOR-MOUNTED SERVICE SINK	3/4	3/4	3	2	2	3	N/A	NO	1,3,4,5
FD-C	MEDIUM-DUTY FLOOR DRAIN	-	-	2	1-1/2	2	-	N/A	NO	2,3,4,5
FCO	FLOOR CLEANOUT	-	-	PLANS	-	-	-	N/A	NO	1,3,4,5
HD-1	HUB DRAIN	-	-	2	1-1/2	2	-	N/A	NO	1,2,3,4,5

NOTES:
1. COMPLIANCE WITH PROJECT ACCESSIBILITY REQUIREMENTS FOR FIXTURES WITHIN THIS SCHEDULE TO BE CONFIRMED BY ARCHITECT AND/OR ACCESSIBILITIY CONSULTANT.
2. CONTRACTOR SHALL VERIFY DRAIN COMPATIBILITY WITH CONSTRUCTION TYPE PRIOR TO INSTALLATION OR PROCUREMENT.
3. PROVIDE MOUNTING HARDWARE, SUPPORTS, BRACKETS, ETC. AS REQUIRED BY THE FIXTURE MANUFACTURER FOR PROPER INSTALLATION.
4. PLUMBING CONTRACTOR TO PROVIDE MATERIALS AND LABOR TO MAKE ALL REQUIRED FINAL CONNECTIONS FOR A COMPLETE AND OPERABLE SYSTEM.
5. SEE SPECIFICATIONS FOR MORE INFORMATION.

AREA PLAN LEGEND

AREA NOT IN CONTRACT

Revisions:	Date:

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Office of Construction and Facilities Management

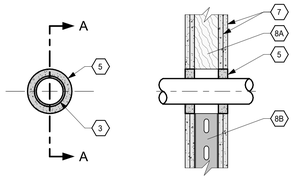
VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING LEGENDS, SCHEDULES, AND ABBREVIATIONS	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES – MILWAUKEE, WI	Project Number: 695-21-700
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Building Number
		Issue Date: SEPTEMBER 5, 2025 / Checked: AW / Drawn: DAW	Drawing Number: P-001

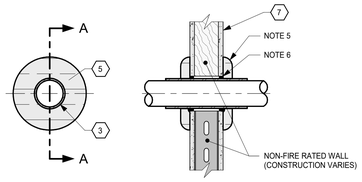
VA FORM 08 - 6231

Autodesk Docs://OCFM East - Milwaukee EHRM (R24)/Consolidated Model (R24).rvt 8/30/2025 10:16:53 AM

Graphic Scale: 11/8" = 1'-0" 3/32" 16' 8' 0'
Graphic Scale: 1/8" = 1'-0" 16' 8' 4' 0'
Graphic Scale: 3/32" = 1'-0" 2' 1' 8" 4" 0'
Graphic Scale: 1/4" = 1'-0" 4' 2' 1' 0'
Graphic Scale: 3/16" = 1'-0" 12' 6' 3' 1' 0'
Graphic Scale: 1/2" = 1'-0" 4' 2' 1' 0'
Graphic Scale: 3/4" = 1'-0" 2' 1' 6" 0'
Graphic Scale: 1" = 1'-0" 2' 1' 6" 0'
Graphic Scale: 1 1/2" = 1'-0" 1' 6" 3" 0'

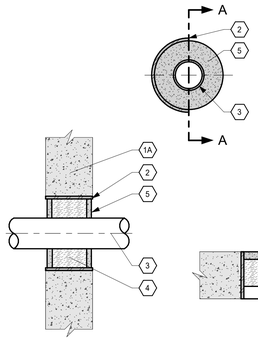


SECTION A-A
PENETRANT IN 1 OR 2 HOUR RATED WALL ASSEMBLY

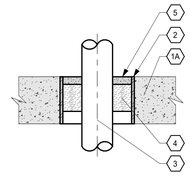


SECTION A-A
NON-FIRE RATED WALL
PENETRANT EXPOSED IN FINISHED ROOM WALL ASSEMBLY

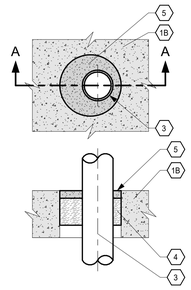
PENETRATION - STUD WALL



SECTION A-A
(WALL ASSEMBLY)

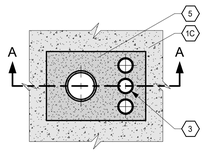


SECTION A-A
(CONCENTRIC FLOOR ASSEMBLY)

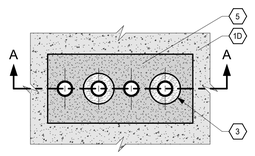


SECTION A-A
(ECCENTRIC FLOOR ASSEMBLY)

PENETRATION - CONCRETE/CONCRETE BLOCK



SECTION A-A
(FLOOR ASSEMBLY)



SECTION A-A
(FLOOR ASSEMBLY)

MULTIPLE/GANGED PENETRATION - CONCRETE/CONCRETE BLOCK

KEYNOTES

1. CONCRETE/CONCRETE BLOCK FLOOR OR WALL ASSEMBLY:
   A. MIMIMUM 5 IN. THICK REINFORCED NORMAL WEIGHT (100-150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS. MAXIMUM DIAMETER OF OPENING IS 6 IN.
   B. FLOOR OR WALL ASSEMBLY - MINIMUM 4-1/2 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE FLOOR OR MIN 5 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE WALL. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS.
   C. FLOOR OR WALL ASSEMBLY - MINIMUM 4-1/2 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE FLOOR OR MIN 5 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE WALL. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS. MAXIMUM AREA OF OPENING IS 45 SQ IN. WITH A MAXIMUM DIMENSION OF 9 IN.
   D. FLOOR OR WALL ASSEMBLY - MINIMUM 4-1/2 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE FLOOR OR MIN 5 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE WALL. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS. MAXIMUM AREA OF OPENING IS 192 SQ IN. WITH A MAXIMUM DIMENSION OF 24 IN.
2. METALLIC SLEEVE (OPTIONAL) – NOMINAL 6 IN. DIAM (OR SMALLER) ELECTRICAL METALLIC TUBING, STEEL CONDUIT OR CAST IRON PIPE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY, FLUSH WITH FLOOR OR WALL SURFACES.
3. THROUGH PENETRANTS – ONE METALLIC PIPE OR CONDUIT TO BE CENTERED WITHIN THE FIRESTOP SYSTEM. A NOMINAL ANNULAR SPACE OF 3/4 IN. IS REQUIRED WITHIN THE FIRESTOP SYSTEM. PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.
4. PACKING MATERIAL – MIMIMUM 3 IN. THICKNESS OF MIMIMUM 4 PCF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL. PACKING MATERIAL TO BE CENTERED IN WALLS MID DEPTH AND RECESSED TO ALLOW FOR INSTALLATION OF FILL MATERIAL.
5. FILL, VOID, OR CAVITY SEALANT - MINIMUM 5/8 IN. THICKNESS OF FILL MATERIAL APPLIED WITH THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. AT THE POINT OF CONTINUOUS CONTACT LOCATIONS BETWEEN PENETRANT AND WALL, A MINIMUM OF 1/2 IN. DIAMETER BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE PENETRANT WALL INTERFACE ON BOTH SURFACES OF WALL.
6. WALL ASSEMBLY THE ONE (1) OR TWO (2) HOUR OF FIRE RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY IN JUL INCLUDE FOLLOWING CONSTRUCTION FEATURES:
7. GYPSUM BOARD - 5/8 IN. THICK, 4 FT. WIDE WITH SQUARE TAPERED EDGES. GYPSUM BOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE, AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR ARE U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY.
8. STUD WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. OPENING IN THE WALL SHALL BE 4 TO 6 IN. WIDER, AND 4 TO 6 IN. HIGHER THAN THE DIAMETER OF THE OPENING ITEM SUCH THAT, WHEN THE PENETRATING ITEM IS INSTALLED IN THE OPENING, A 2 IN. TO 3 IN. CLEARANCE IS PRESENT BETWEEN THE PENETRATING ITEM AND THE FRAMING ON ALL FOUR SIDES.
   A. WOOD CONSTRUCTION - SHALL CONSIST OF NOMINAL 2 IN. X 4 IN. LUMBER, SPACED 16 IN. ON CENTER. MAXIMUM DIAMETER OF OPENING IS 14-1/2 IN.
   B. STEEL CONSTRUCTION - SHALL BE A MINIMUM OF 2-1/2 IN. WIDE AND SPACED AT MAXIMUM OF 24 IN. ON CENTER. MAXIMUM DIAMETER OF OPENING IS 32-1/4 (IN. IF THE DIAMETER OF THE OPENING EXCEEDS THE WIDTH OF THE STUD CAVITY, THE OPENING SHALL BE FRAMED ON ALL SIDES USING LENGTHS OF STEEL STUD, INSTALLED BETWEEN THE VERTICAL STUDS AND SCREW ATTACHED TO THE STEEL STUDS AND EACH END THE FRAMING.)

NOTES:

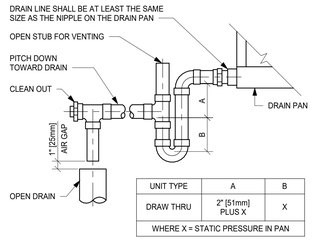
"PENETRANT" IS DEFINED AS: METALLIC PIPE, CONDUIT, OR TUBING.

WALL PENETRANT - THE FOLLOWING TYPES AND SIZES MAY BE USED:
- STEEL PIPE - NOMINAL 30 IN. DIAMETER (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE BREAK LINE IRON PIPE NOMINAL 30 IN. DIAMETER OR SMALLER CAST OR DUCTILE IRON PIPE.
- COPPER TUBING - NOMINAL 6 IN. DIAMETER (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
- COPPER PIPE - NOMINAL 6 IN. DIAMETER (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

FLOOR PENETRANT - THE FOLLOWING TYPES AND SIZES MAY BE USED:
- STEEL PIPE – NOMINAL 4 IN. DIAMETER (OR SMALLER) SCHEDULE 5 (OR HEAVIER) STEEL PIPE.
- COPPER TUBING - NOMINAL 3 IN. DIAMETER (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
- COPPER PIPE - NOMINAL 3 IN. DIAMETER (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

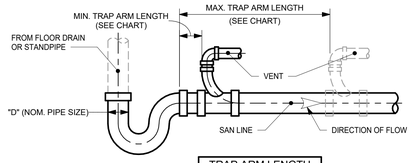
1. THIS DETAIL APPLIES TO ALL ITEMS PENETRATING FIRE RATED AND NON-FIRE RATED WALLS AND FLOORS. THE INTENT IS TO MAINTAIN THE FIRE RATING AND INSULATION AND VAPOR BARRIER THROUGH ALL PENETRATIONS. PERMIT THERMAL EXPANSION WITHOUT DAMAGING INSULATION, AND TO SEAL AIRTIGHT AROUND INSULATED AND UNINSULATED PIPES FOR NOISE TRANSMISSION CONTROL. REFER TO SPECIFICATIONS FOR SELECTION OF THROUGH PENETRATION FIRE STOPPING.
2. SCHEDULE 5 PIPE SLEEVE EMBEDDED IN WALL OR FLOOR, OR SMOOTH CORE DRILL. EACH CONTRACTOR FURNISHES SLEEVE TO GENERAL CONTRACTOR, COORDINATES SLEEVE LOCATIONS AND DEBURS SLEEVE. G.C. BUILDS SLEEVE INTO WALL OR FLOOR ALLOWING NO GAP AROUND SLEEVE. IF SLEEVE IS NOT PROVIDED WHEN WALL OR FLOOR IS BUILT, CONTRACTOR SHALL INSTALL SLEEVE. SLEEVE SIZE SHALL ALLOW ANNULAR SPACE REQUIRED BY THE SELECTED FIRE STOP SYSTEM.
3. INSTALL BACKING MATERIAL, SUCH AS MINERAL WOOL SAFING, AS REQUIRED FOR FIRE STOP SYSTEM. INSTALL IN ACCORDANCE WITH FIRE STOP SYSTEM APPLICATION LISTING. SECURE TO WALL OR FLOOR TO ALLOW LONGITUDINAL MOVEMENT OF PENETRATING ITEM WITHOUT MOVEMENT OF FIRE BARRIER.
4. WATER-TIGHT WELDED 1 IN. x 1 IN., MINIMUM 20 GAUGE GALVANIZED SHEET METAL ANGLE FRAME, BY CONTRACTOR IN EQUIPMENT ROOMS FOR WATER STOP. PLACE A BEAD OF WATERPROOF SEALANT BETWEEN FLOOR AND BOTTOM OF ANGLE FRAME. SECURE TO FLOOR WITH MASONRY ANCHORS IN CORNERS AND ON 12 IN. MAXIMUM CENTERS. MULTIPLE PENETRATING ITEMS MAY BE ENCLOSED IN ONE FRAME.
5. WALL ASSEMBLY THE ONE (1) OR TWO (2) HOUR OF FIRE RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY IN JUL INCLUDE FOLLOWING CONSTRUCTION FEATURES:
6. THROUGH PENETRANTS - ONE PENETRANT TO BE INSTALLED EITHER CONCENTRICALLY OR A ECCENTRICALLY WITHIN THE FIRE STOP SYSTEM. THE ANNULAR SPACE SHALL BE 0 IN. TO MAXIMUM OF 2-1/4 IN. PENETRANT MAY BE INSTALLED WITH CONTINUOUS POINT CONTACT. PENETRANT MAY BE INSTALLED AT AN ANGLE, NOT GREATER THAN 45° FROM PERPENDICULAR. PENETRANT SHALL BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.
7. INSTALL AN ESCUTCHEON AROUND PIPES EXPOSED IN FINISHED ROOMS. FOR ALL INSULATED PIPING INSTALL A PLASTIC JACKET EXTENDING 6 IN. BEYOND THE WALL TO PROTECT INSULATION FROM DAMAGE.
8. MAKE A SMOOTH ROUND OPENING IN WALL SLIGHTLY LARGER THAN OUTSIDE DIAMETER OF THE PIPE AND INSULATION. ADD A BEAD OF NON-HARDENING CAULK IN THE ANNULAR SPACE.
9. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

3 TYPICAL PIPE PENETRATION DETAIL
12" = 1'-0"



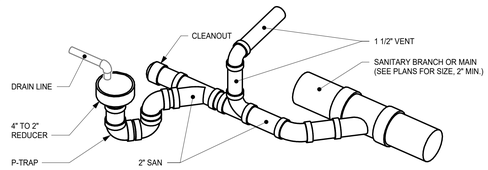
UNIT TYPE	A	B
DRAW THRU	2" [51mm] PLUS X	X
WHERE X = STATIC PRESSURE IN PAN		

7 TYPICAL AHU TRAP DETAIL
NTS



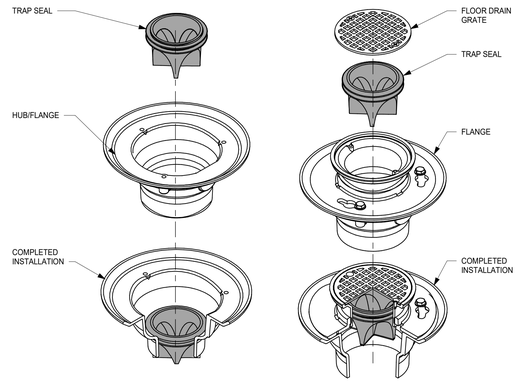
TRAP ARM LENGTH		
D	MIN.	MAX.
1-1/4"	2-1/2"	2' - 6"
1-1/2"	3"	3' - 6"
2"	4"	5' - 0"
3"	6"	6' - 0"
4" & UP	8"	10'-0"

6 TRAP ARM DETAIL
NTS



NOTES:
1. PIPE SIZES ARE TYPICAL UNLESS SPECIFIED DIFFERENTLY ON PLAN.
2. REFER TO 4/P-003 FOR TRAP ARM LENGTH DETAIL.

5 HUB DRAIN DETAIL - ABOVE CEILING
NTS

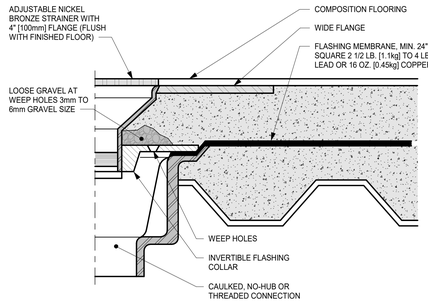


HUB APPLICATION

FLOOR DRAIN APPLICATION

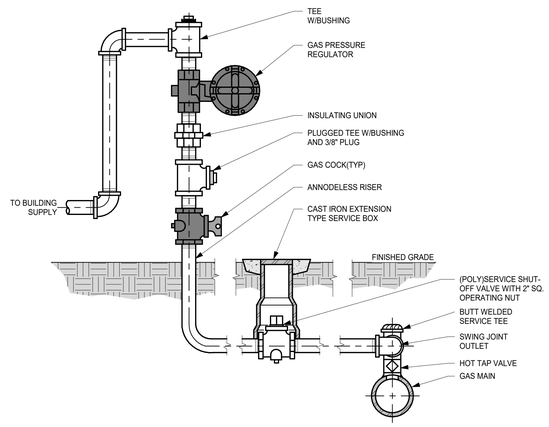
NOTES:
1. TRAP SEAL MUST MEET OR EXCEED ASSE 1072.
2. INSTALL TRAP SEAL IN THE DRAIN OUTLET.
3. TRAP SEAL SIZE INSTALLS IN THE THROAT OF ADJUSTABLE STRAINERS.
4. INSERT THE TRAP SEAL IN THE DRAIN OUTLET OR THROAT OF STRAINER UNTIL THE TOP IS
5. FLUSH WITH TOP OF DRAIN OUTLET OR STRAINER THROAT.

4 TRAP SEAL DETAIL
NTS



NOTES:
1. SLOPE MEMBRANE LINER 2% TO DRAIN.
2. PROVIDE FLASHING MEMBRANE WHEN DRAIN IS INSTALLED IN A NON MEMBRANE FLOOR

2 TYPICAL TYPE "C" FLOOR DRAIN DETAIL
NTS



1 GAS SERVICE CONNECTION DETAIL
NTS

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING DETAILS	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES – MILWAUKEE, WI	Project Number: 695-21-700
			Building Number:
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Drawing Number: P-002
		Issue Date: SEPTEMBER 5, 2025 / Checked: AW / Drawn: DAW	

VA FORM 08 - 6231

8/30/2025 10:16:57 AM

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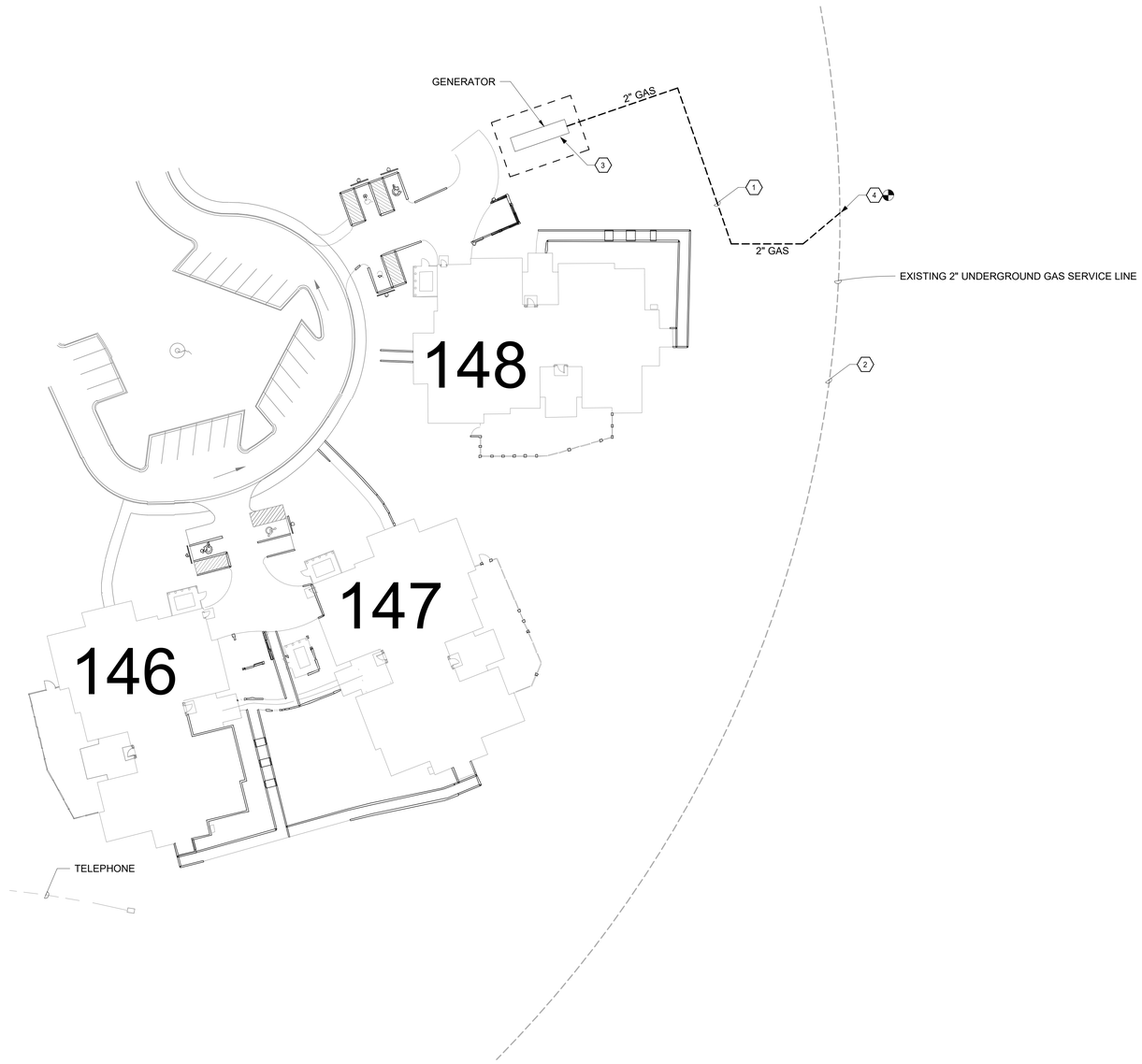
KEY NOTES

1. ROUTE 2" NATURAL GAS PIPE FROM EXISTING 2" UNDERGROUND GAS MAIN (10 PSI, OWNED BY VA) TO GENERATOR. REFER TO 1/P-002, GAS CONNECTION SERVICE DETAIL.
2. PRIOR TO CONSTRUCTION & DIGGING, CONTRACTOR TO TRACE & VERIFY LOCATION OF EXISTING MAIN. CONNECT TO MAIN AT NEAREST LOCATION.
3. GENERATOR NATURAL GAS USAGE. REQUIRED NATURAL GAS PRESSURE - 1 PSI. MAXIMUM REQUIRED VOLUME OF NATURAL GAS NEEDED - 50 CFH.
4. CONNECT 2" GAS PIPE INTO UNDERGROUND EXISTING MAIN.



1 BLDG 146, 147, AND 148 PLUMBING SITE PLAN
1" = 20'-0"

Revisions:	Date:

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VA U.S. Department of Veterans Affairs

Drawing Title PLUMBING SITE PLAN	**Phase** FINAL BID DOCUMENTS	**Project Title** EHRM INFRASTRUCTURE UPGRADES – MILWAUKEE, WI	**Project Number** 695-21-700
Approved:	**Sprinklered** FULLY SPRINKLERED	**Location** 5000 W. NATIONAL AVENUE MILWAUKEE, WI	**Building Number**
		Issue Date SEPTEMBER 5, 2025 / **Checked** AW / **Drawn** DAW	**Drawing Number** PS-101

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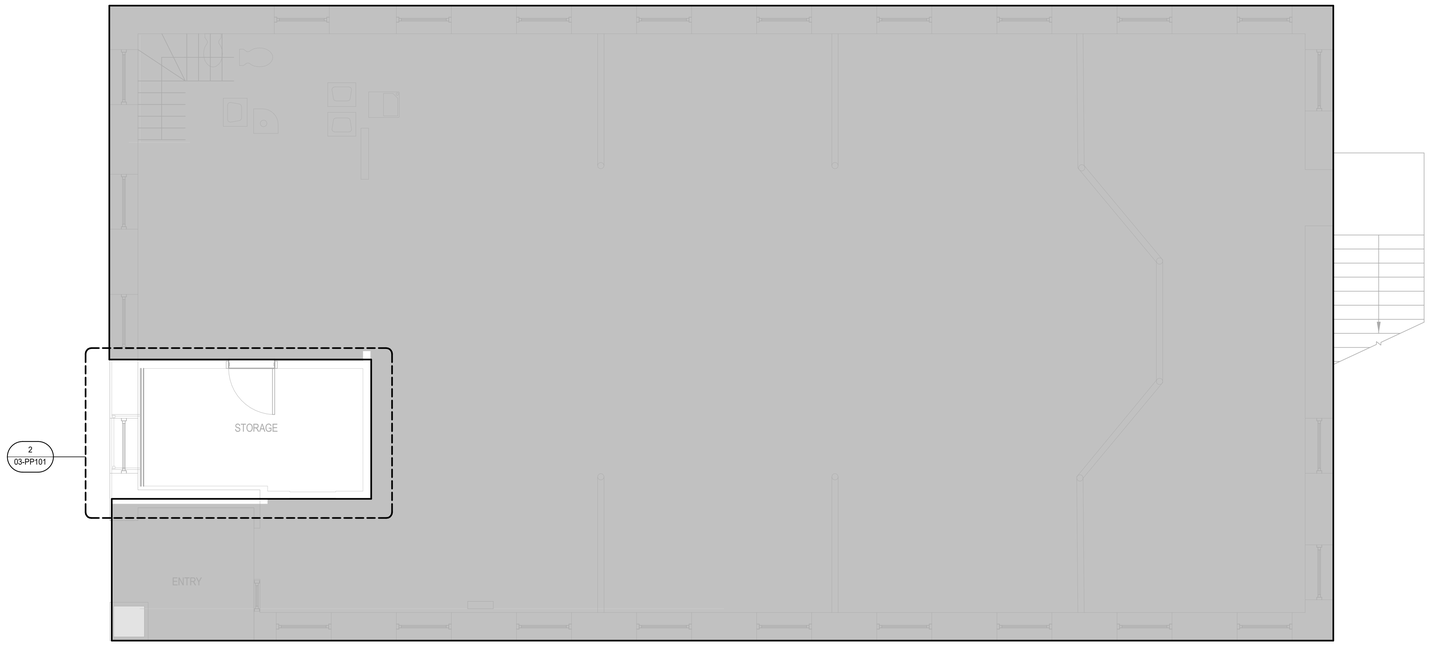
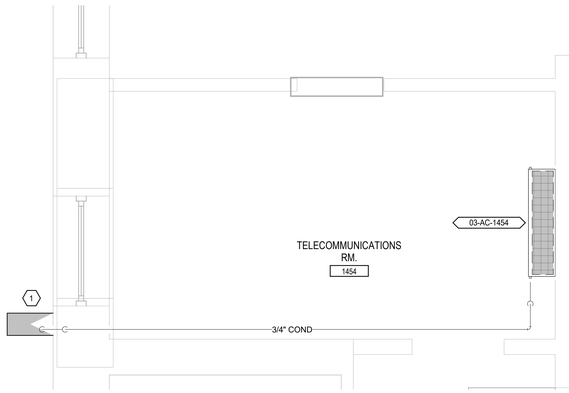
KEY NOTES

1. ROUTE 3/4" CONDENSATE DRAIN TO EXTERIOR AND DRAIN TO GRADE. PROVIDE SPLASH BLOCK AT DISCHARGE.



1 BLDG 3 - FIRST FLOOR - OVERALL PLUMBING
1/4" = 1'-0"



2 BUILDING 03 LEVEL 01 RM. 11 ENLARGED PLUMBING PLAN
1/2" = 1'-0"

TRUE NORTH
PLAN NORTH

Revisions:	Date:

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Drawing Title	BLDG 3 - FIRST FLOOR OVERALL & ENLARGED PLUMBING PLANS
Approved:	
Phase	FINAL BID DOCUMENTS
Sprinklered	
Project Title	EHRM INFRASTRUCTURE UPGRADES – MILWAUKEE, WI
Location	5000 W. NATIONAL AVENUE MILWAUKEE, WI
Issue Date	SEPTEMBER 5, 2025
Checked	AGW
Drawn	HWG
Project Number	695-21-700
Building Number	03
Drawing Number	03-PP101

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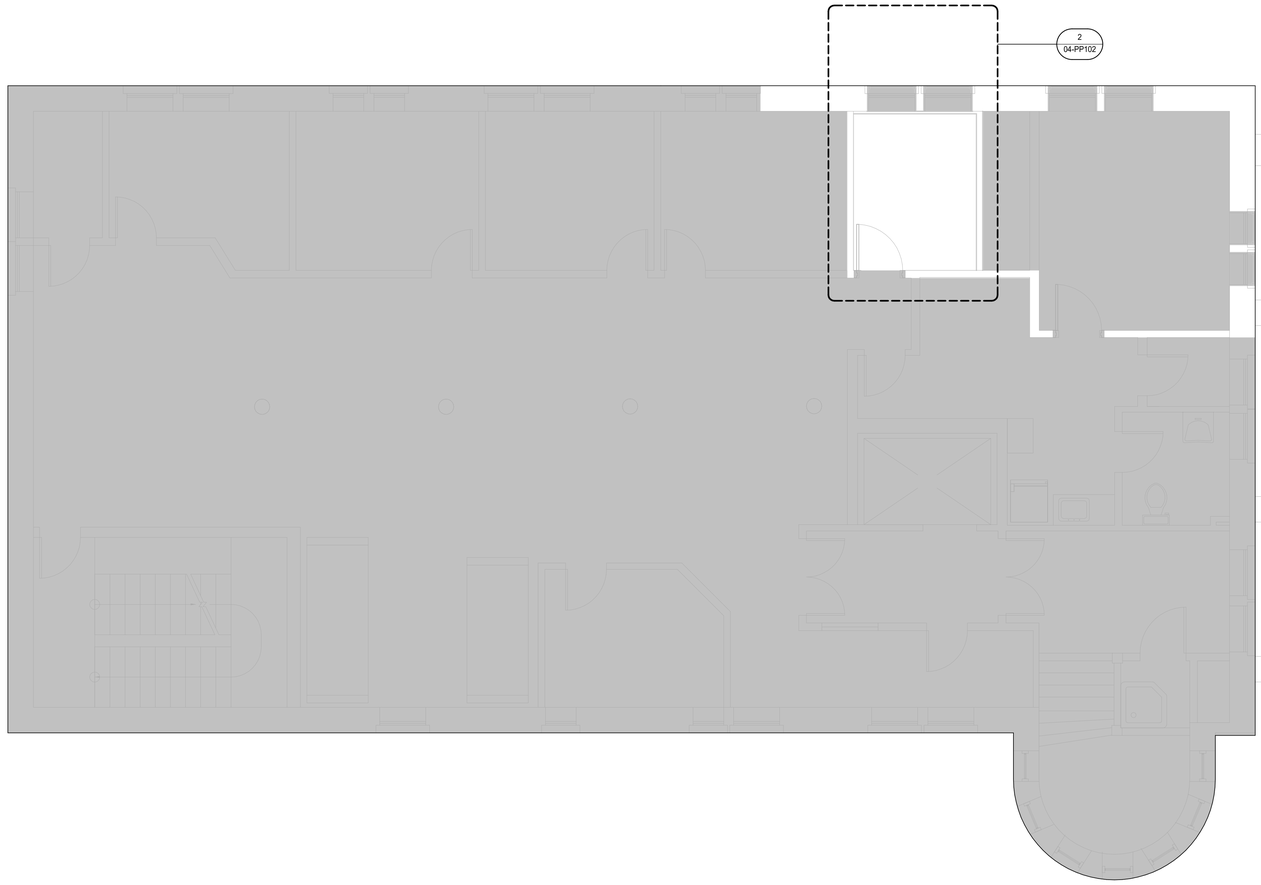
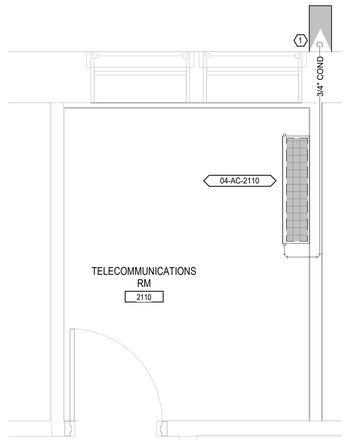
Graphic Scale: 3/32" = 1'-0"
Graphic Scale: 1/8" = 1'-0"
Graphic Scale: 1/4" = 1'-0"
Graphic Scale: 3/16" = 1'-0"
Graphic Scale: 1/2" = 1'-0"
Graphic Scale: 3/4" = 1'-0"
Graphic Scale: 1" = 1'-0"
Graphic Scale: 1 1/2" = 1'-0"

KEY NOTES

1. ROUTE 3/4" CONDENSATE DRAIN TO EXTERIOR AND DRAIN TO GRADE. PROVIDE SPLASH BLOCK AT DISCHARGE



1 BLDG 4 - SECOND FLOOR - OVERALL PLUMBING
1/4" = 1'-0"



2 SECOND FLOOR ENLARGED PLUMBING PLAN
1/2" = 1'-0"

TRUE NORTH
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Drawing Title BLDG 4 - SECOND FLOOR OVERALL AND ENLARGED PLUMBING PLANS	**Phase** FINAL BID DOCUMENTS	**Project Title** EHRM INFRASTRUCTURE UPGRADES – MILWAUKEE, WI	**Project Number** 695-21-700
			Building Number 04
Approved:	**Sprinklered** FULLY SPRINKLERED	**Location** 5000 W. NATIONAL AVENUE MILWAUKEE, WI	**Drawing Number** 04-PP102
		Issue Date SEPTEMBER 5, 2025 / **Checked** AGW / **Drawn** HG	

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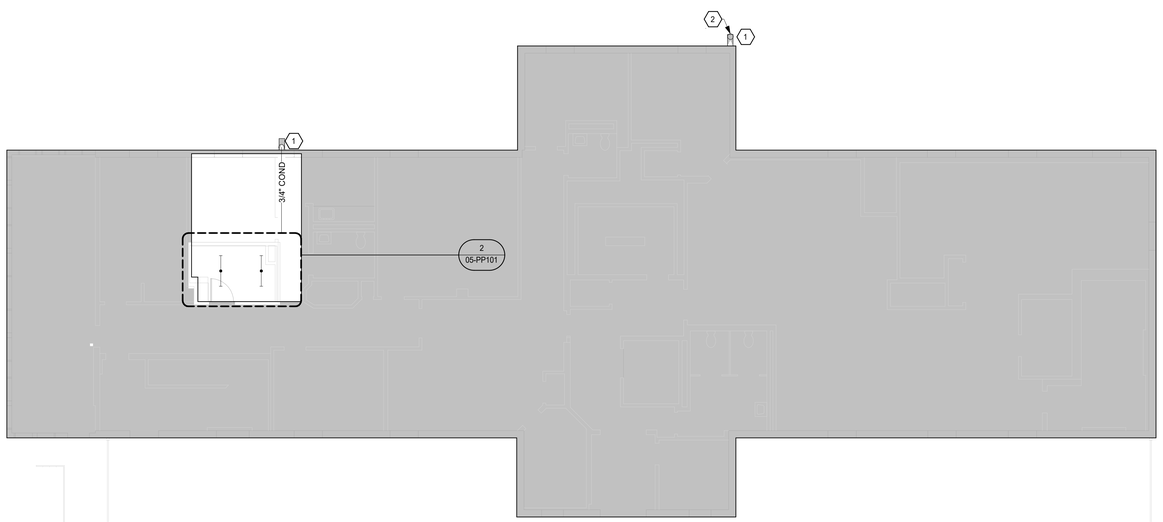
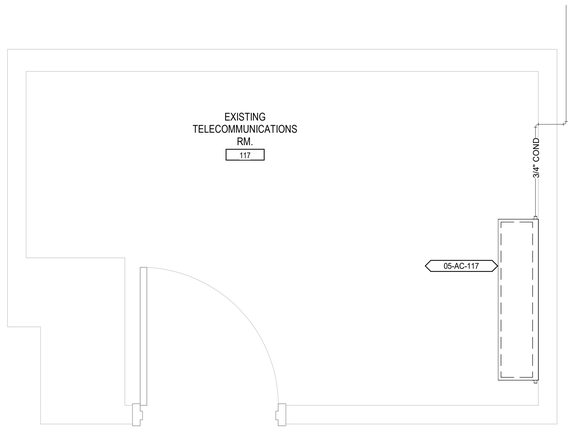
KEY NOTES

1. ROUTE 3/4" CONDENSATE DRAIN TO EXTERIOR AND DRAIN TO GRADE. PROVIDE SPLASH BLOCK AT DISCHARGE.
2. 3/4" CONDENSATE UP.



1 BLDG 5 - FIRST FLOOR - OVERALL PLUMBING
1/8" = 1'-0"



2 BLDG 5 - FIRST FLOOR - ENLARGED PLUMBING
3/4" = 1'-0"

TRUE NORTH
PLAN NORTH

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Drawing Title: BLDG 5 - BASEMENT/FIRST FLOOR OVERALL & ENLARGED - PLUMBING	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES – MILWAUKEE, WI	Project Number: 695-21-700
			Building Number: 05
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Drawing Number: 05-PP101
		Issue Date: SEPTEMBER 5, 2025 / Checked: AGW / Drawn: JJS	

VA FORM 08 - 6231

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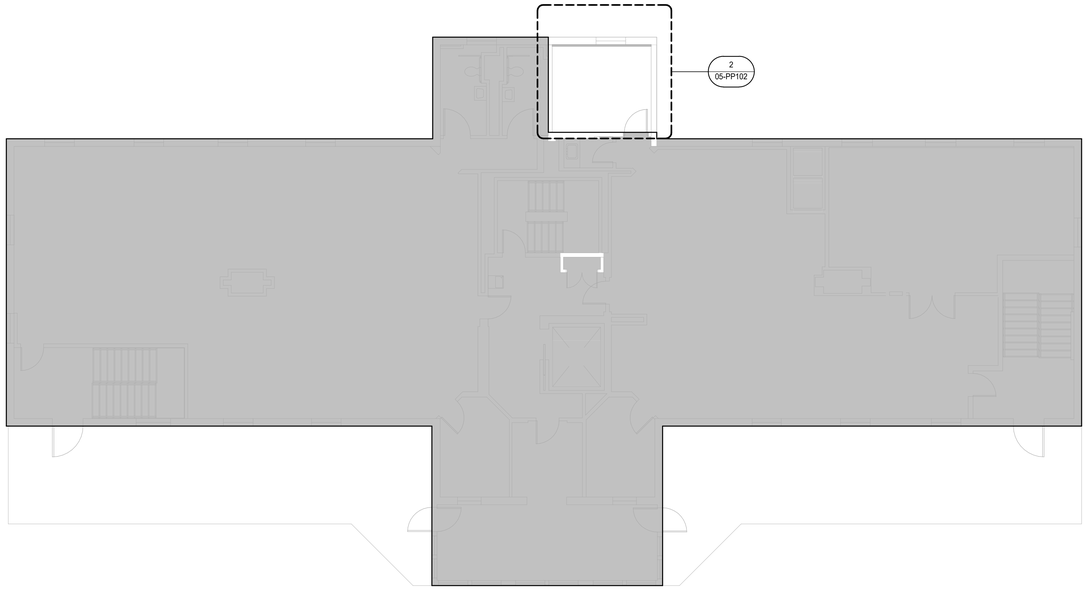
8/30/2025 10:17:07 AM

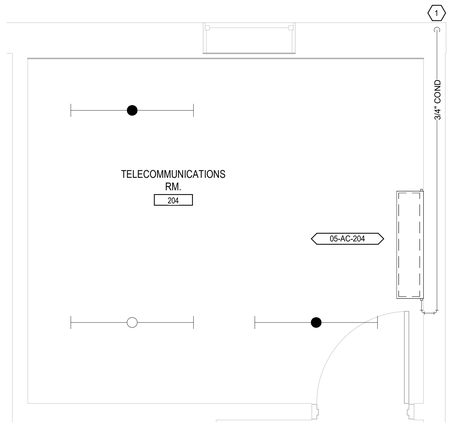
Graphic Scale: 1/16" = 1'-0" (0' 8' 16' 32')
Graphic Scale: 1/8" = 1'-0" (0' 4' 8' 16')
Graphic Scale: 3/32" = 1'-0" (0' 4" 8" 1' 2')
Graphic Scale: 1/4" = 1'-0" (0' 1' 2' 4')
Graphic Scale: 3/16" = 1'-0" (0' 1' 3' 6' 12')
Graphic Scale: 1/2" = 1'-0" (0' 1' 2' 4')
Graphic Scale: 3/4" = 1'-0" (0' 6" 1' 2')
Graphic Scale: 1" = 1'-0" (0' 6" 1' 2')
Graphic Scale: 1 1/2" = 1'-0" (0' 3" 6" 1' 1' 6")

KEY NOTES

1. 3/4" CONDENSATE DRAIN DOWN TO FIRST FLOOR SPLASH BLOCK.



1 BLDG 5 - SECOND FLOOR - OVERALL PLUMBING
1/8" = 1'-0"



2 BLDG 5 - SECOND FLOOR - ENLARGED PLUMBING - ROOM 204
1/2" = 1'-0"

TRUE NORTH
PLAN NORTH

Revisions:	Date:

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WISCONSIN 9/5/25 ARON G. WIECZOREK #42666-6 SWISHER IOWA PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 5 - SECOND FLOOR OVERALL & ENLARGED - PLUMBING	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES – MILWAUKEE, WI	Project Number: 695-21-700
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Building Number: 05
		Issue Date: SEPTEMBER 5, 2025 / Checked: AGW / Drawn: HWG	Drawing Number: 05-PP102

VA FORM 08 - 6231

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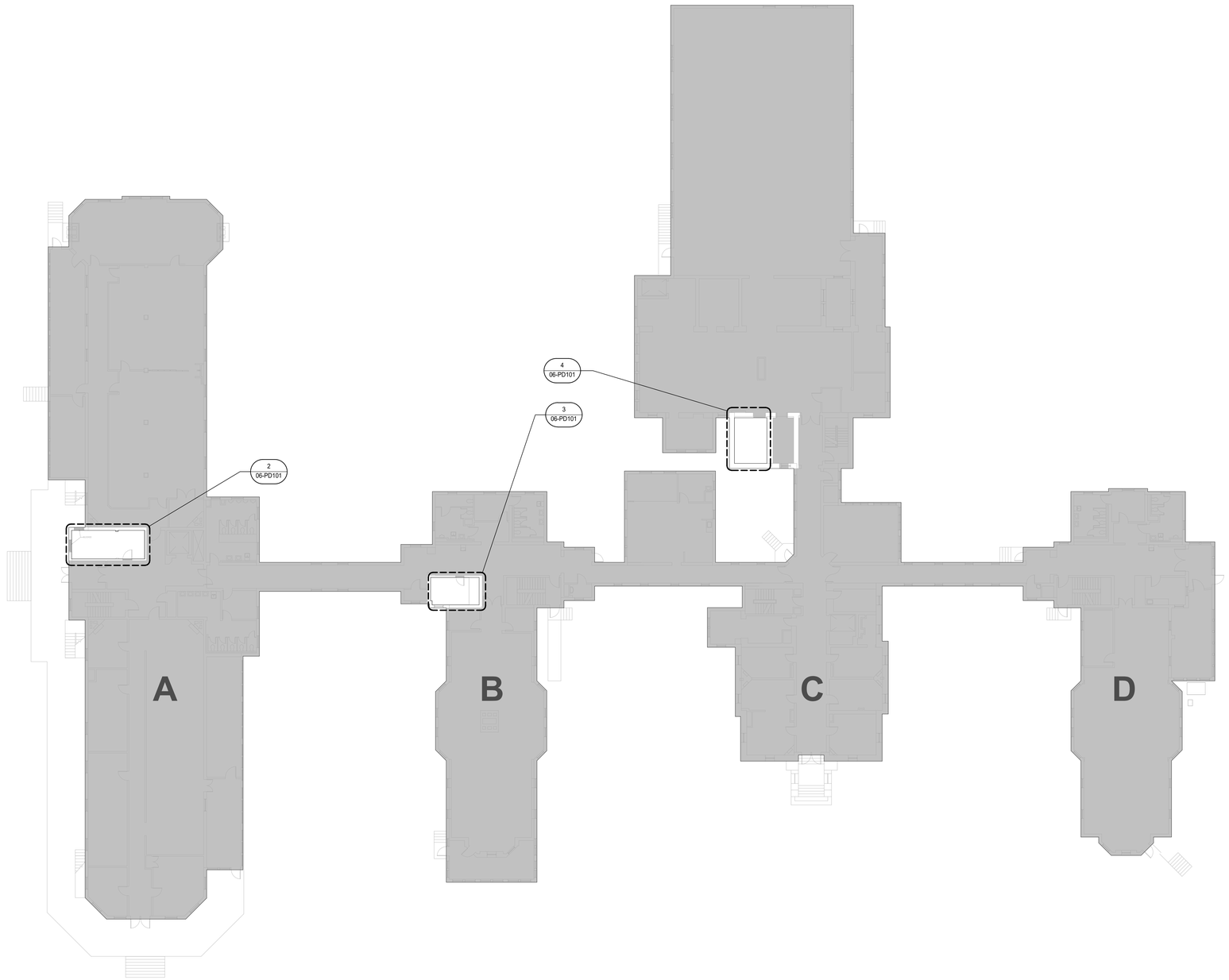
8/30/2025 10:17:09 AM

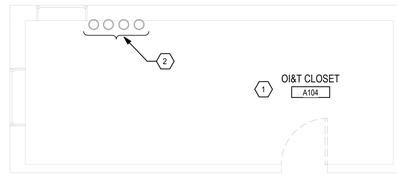
Graphic Scale : 3/32" = 1'-0"
Graphic Scale : 1/8" = 1'-0"
Graphic Scale : 1/4" = 1'-0"
Graphic Scale : 3/16" = 1'-0"
Graphic Scale : 1/2" = 1'-0"
Graphic Scale : 3/4" = 1'-0"
Graphic Scale : 1" = 1'-0"
Graphic Scale : 1 1/2" = 1'-0"

KEY NOTES

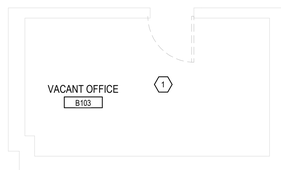
1. THERE ARE NO PLUMBING SYSTEMS IN THIS AREA TO BE DEMOLISHED.
2. EXISTING PLUMBING SYSTEMS TO REMAIN.



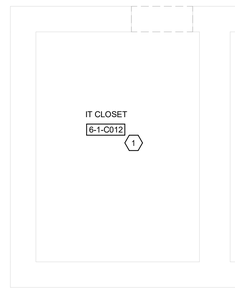
1 BUILDING 06 LEVEL 01 FLOOR PLAN - PLUMBING DEMOLITION
1/16" = 1'-0"



2 RM A104 ENLARGED PLAN - PLUMBING DEMOLITION
1/4" = 1'-0"



3 RM. B103 ENLARGED PLAN - PLUMBING DEMOLITION
1/4" = 1'-0"



4 RM. 6-1-C102 PLUMBING DEMOLITION ENLARGED PLAN
1/4" = 1'-0"

TRUE NORTH
PLAN NORTH

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ARIO G. WIECZOREK
#42666-6
SWISHER
IOWA
PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING 06 LEVEL 01 - PLUMBING DEMOLITION PLAN	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES – MILWAUKEE, WI	Project Number: 695-21-700
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Building Number: 06
		Issue Date: SEPTEMBER 5, 2025 / Checked: AW / Drawn: DAW	Drawing Number: 06-PD101

VA FORM 08 - 6231

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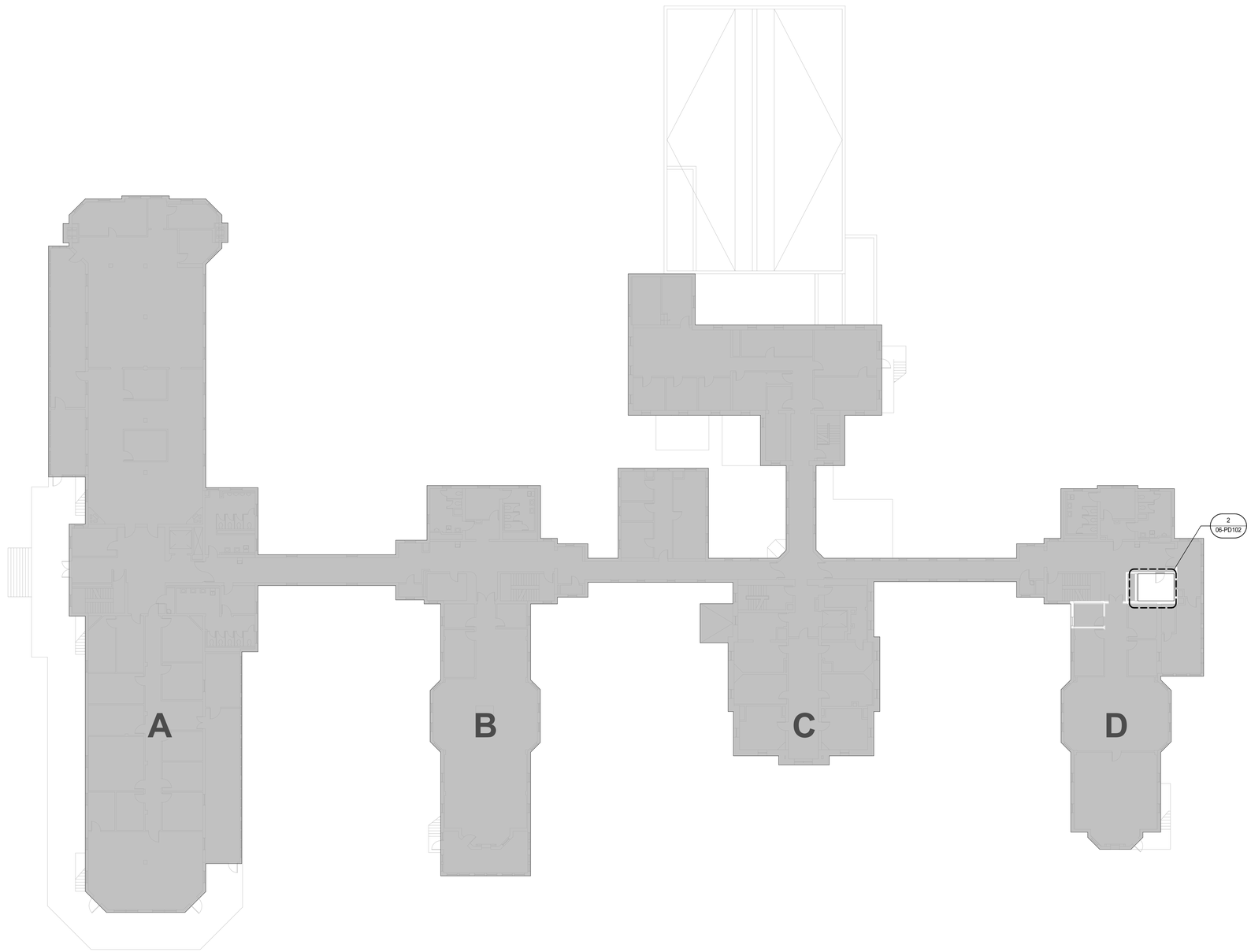
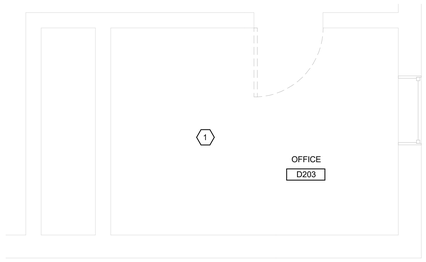
8/30/2025 10:17:13 AM

KEY NOTES

1. THERE ARE NO PLUMBING SYSTEMS IN THIS AREA TO BE DEMOLISHED.



1 BUILDING 06 LEVEL 02 FLOOR PLAN - PLUMBING DEMOLITION
1/16" = 1'-0"



2 ENLARGED PLUMBING DEMOLITION PLAN
3/8" = 1'-0"

TRUE NORTH
PLAN NORTH

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VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING 06 LEVEL 02 - PLUMBING DEMOLITION PLAN	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES – MILWAUKEE, WI	Project Number: 695-21-700
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Building Number: 06
		Issue Date: SEPTEMBER 5, 2025 / Checked: AW / Drawn: DAW	Drawing Number: 06-PD102

VA FORM 08 - 6231

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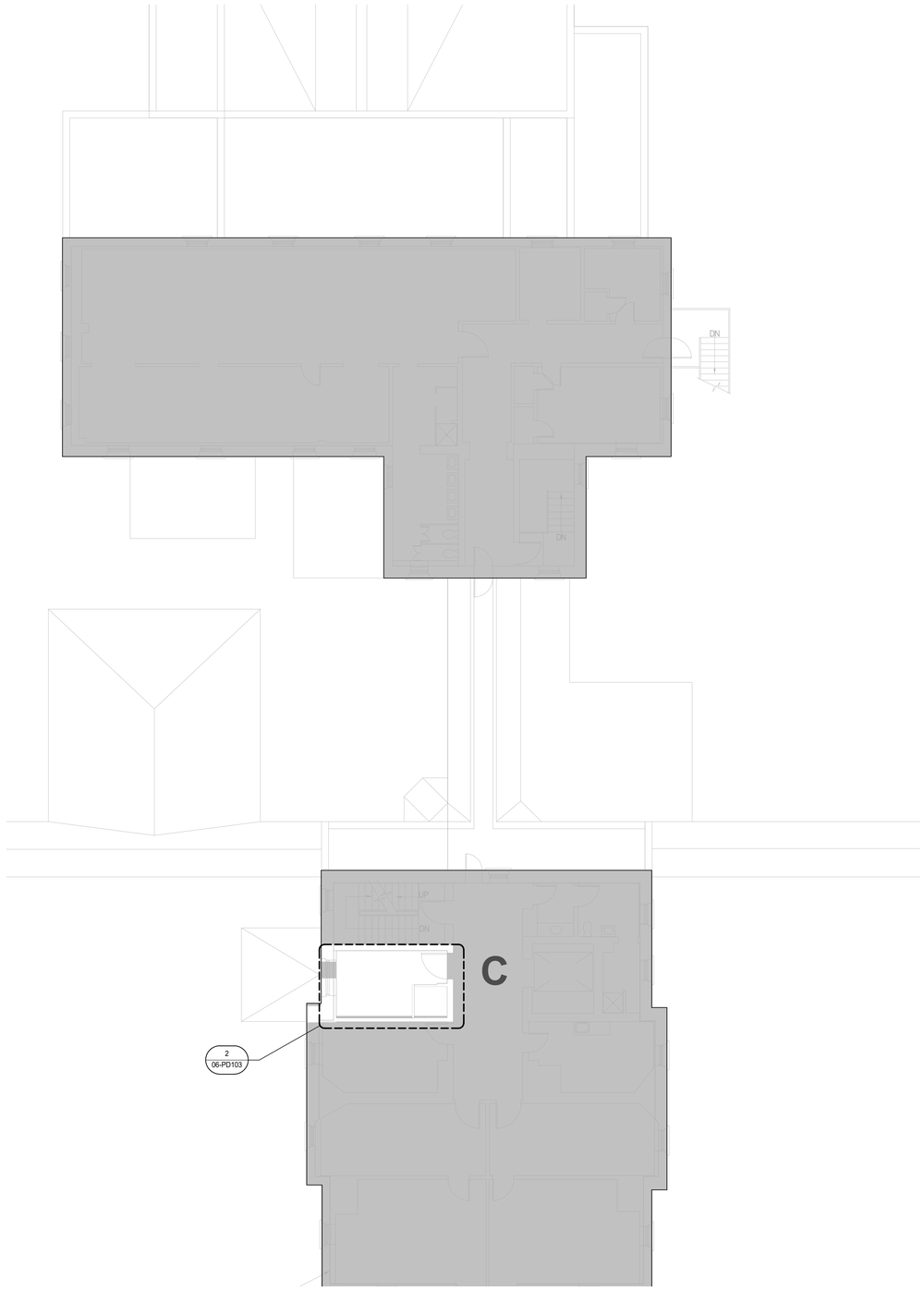
KEY NOTES

1. THERE ARE NO PLUMBING SYSTEMS IN THIS AREA TO BE DEMOLISHED.



1 BUILDING 06 LEVEL 03 FLOOR PLAN - PLUMBING DEMOLITION
1/8" = 1'-0"

2 RM. C302 ENLARGED PLAN - PLUMBING DEMOLITION
1/2" = 1'-0"

TRUE NORTH
PLAN NORTH

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Drawing Title: BUILDING 06 LEVEL 03 - PLUMBING DEMOLITION PLAN	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES – MILWAUKEE, WI	Project Number: 695-21-700
			Building Number: 06
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Drawing Number: 06-PD103
		Issue Date: SEPTEMBER 5, 2025 / Checked: AW / Drawn: DAW	

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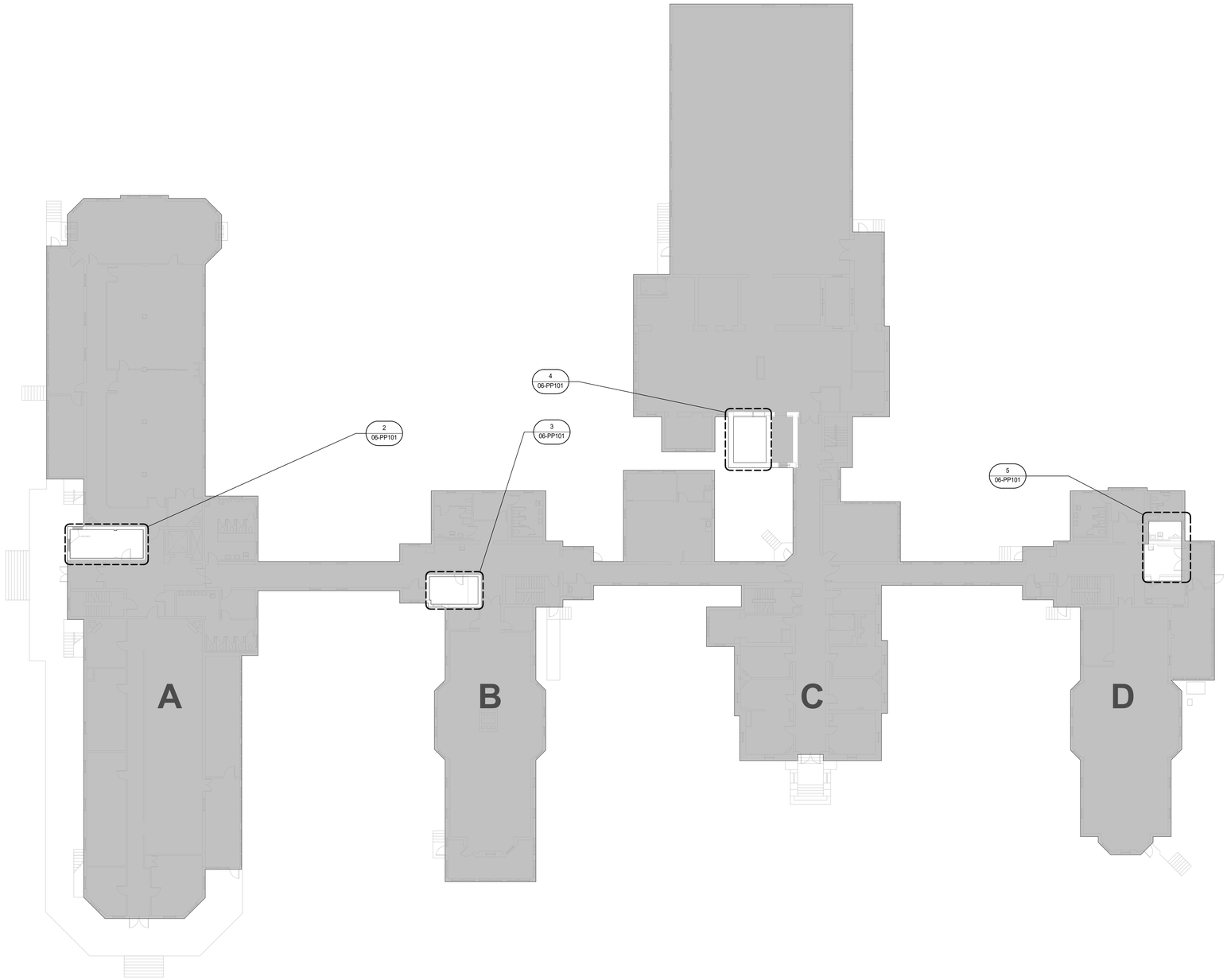
8/30/2025 10:17:18 AM

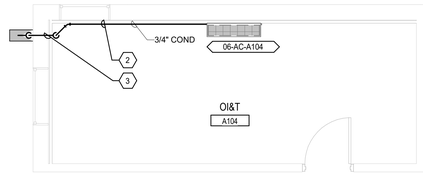
Graphic Scale: 1/16" = 1'-0"
Graphic Scale: 1/8" = 1'-0"
Graphic Scale: 3/32" = 1'-0"
Graphic Scale: 1/4" = 1'-0"
Graphic Scale: 3/16" = 1'-0"
Graphic Scale: 1/2" = 1'-0"
Graphic Scale: 3/4" = 1'-0"
Graphic Scale: 1" = 1'-0"
Graphic Scale: 1 1/2" = 1'-0"



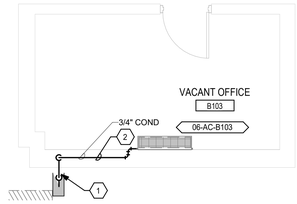
1 BUILDING 06 LEVEL 01 FLOOR PLAN - PLUMBING
1/16" = 1'-0"

KEY NOTES

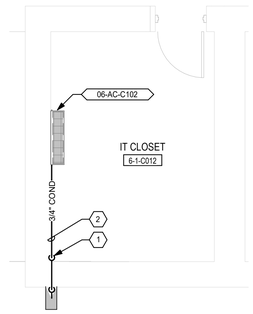
1. ROUTE 3/4" CONDENSATE DRAIN TO EXTERIOR AND DRAIN TO GRADE. PROVIDE SPLASH BLOCK AT DISCHARGE.
2. 3/4" CONDENSATE DRAIN. ROUTE ALONG WALL.
3. ROUTE 3/4" CONDENSATE DRAIN DOWN THROUGH FLOOR FOUNDATION AND OUT OF BUILDING TO GRADE. PROVIDE SPLASH BLOCK AT DISCHARGE.
4. 3/4" CONDENSATE DRAIN UP. SEE 2/06-PP102 FOR CONTINUATION.
5. INSTALL HUB DRAIN (HD-1) FOR CONDENSATE DRAIN AND CONNECT INTO EXISTING SANITARY SYSTEM SERVING RESTROOM. 3/P-003 FOR TRAP ARM LENGTH DETAIL.
6. EXISTING SANITARY PIPE SERVING RESTROOMS IN LEVEL 01 CEILING.
7. 3/4" CONDENSATE DRAIN IN LEVEL 01 CEILING.
8. 1 1/2" VENT UP.



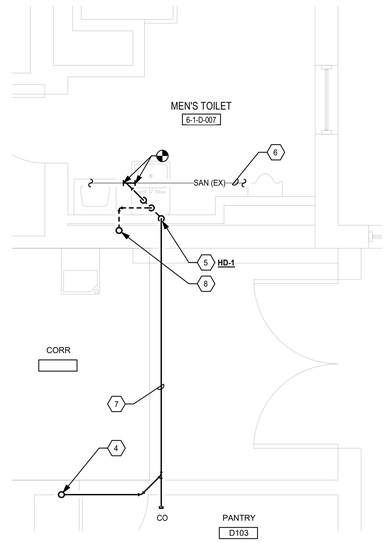
2 RM. A104 ENLARGED PLAN - PLUMBING
1/4" = 1'-0"



3 RM. B103 ENLARGED PLAN - PLUMBING
1/4" = 1'-0"



4 RM. 6-1-C102 ENLARGED PLAN - PLUMBING
1/4" = 1'-0"



5 ENLARGED PLAN - PLUMBING
3/8" = 1'-0"

TRUE NORTH
PLAN NORTH

Revisions:	Date:

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

Drawing Title: BUILDING 06 LEVEL 01 - PLUMBING FLOOR PLAN	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES – MILWAUKEE, WI	Project Number: 695-21-700
			Building Number: 06
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Drawing Number: 06-PP101
		Issue Date: SEPTEMBER 5, 2025 / Checked: AW / Drawn: DAW	

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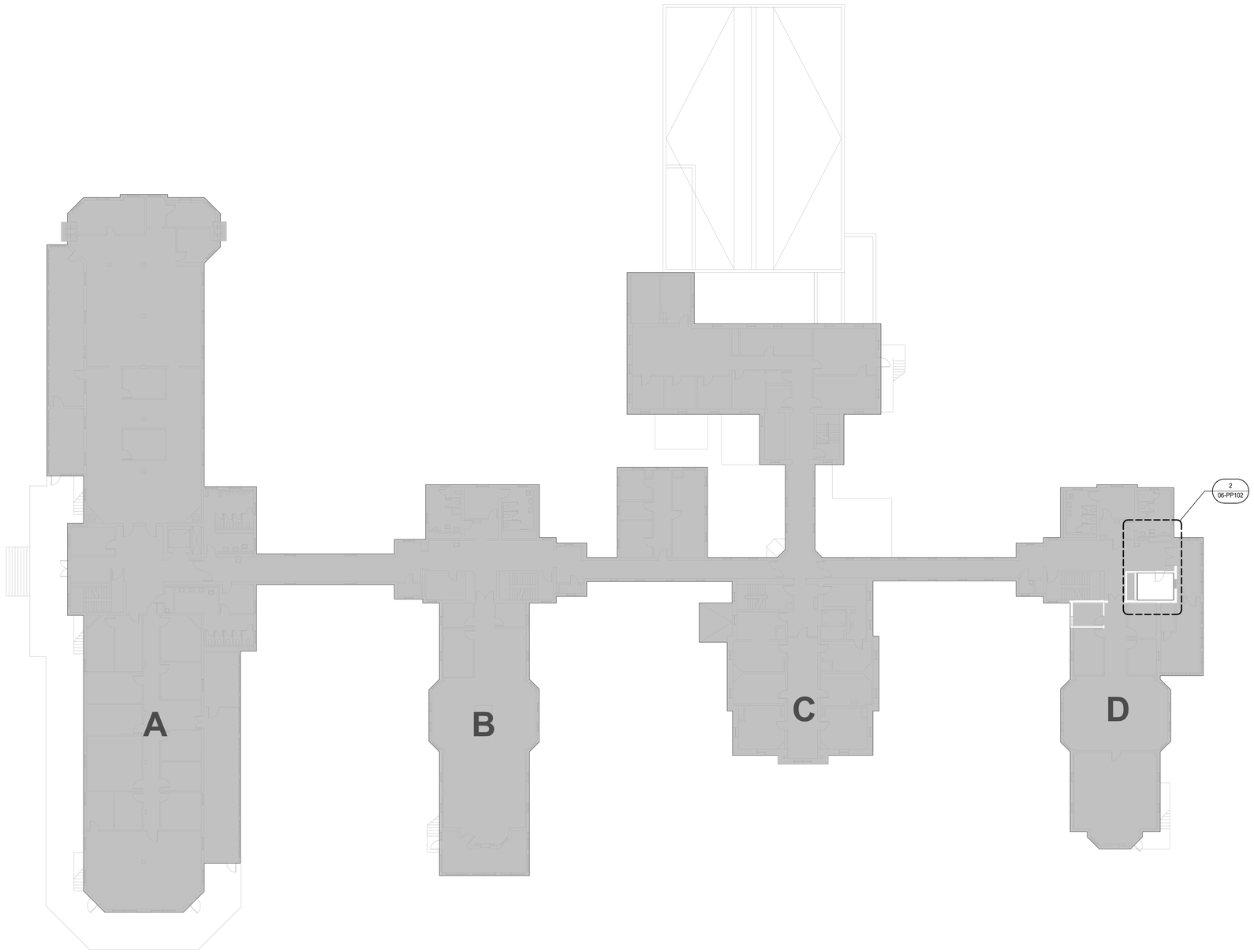
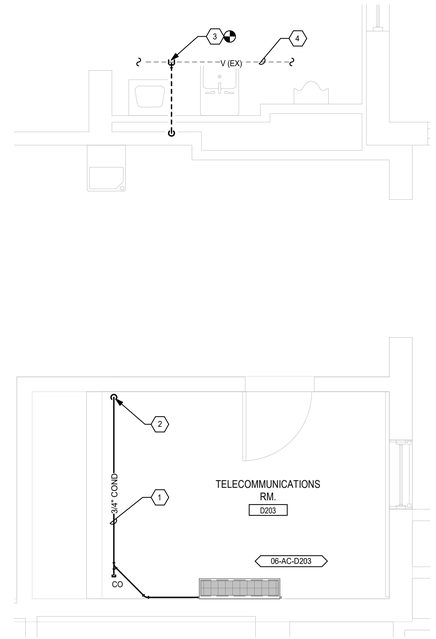
KEY NOTES

1. 3/4" CONDENSATE DRAIN.
2. ROUTE 3/4" CONDENSATE DRAIN DOWN TO LEVEL 01 TO HUB DRAIN LOCATED ON FIRST FLOOR. SEE 5/06-PP101 FOR CONTINUATION.
3. CONNECT 1-1/2" V SERVING HUB DRAIN INTO EXISTING VENT SYSTEM.
4. EXISTING VENT PIPE SERVING RESTROOMS IN LEVEL 02 CEILING.



1 BUILDING 06 LEVEL 02 FLOOR PLAN - PLUMBING
1/16" = 1'-0"



2 ENLARGED PLAN - PLUMBING
3/8" = 1'-0"

TRUE NORTH
PLAN NORTH

Revisions:	Date:

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9/5/25
ARED G. WIECZOREK
#42666-6
SWISHER
IOWA
PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING 06 LEVEL 02 - PLUMBING FLOOR PLAN	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES – MILWAUKEE, WI	Project Number: 695-21-700
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Building Number: 06
		Issue Date: SEPTEMBER 5, 2025 / Checked: AW / Drawn: DAW	Drawing Number: 06-PP102

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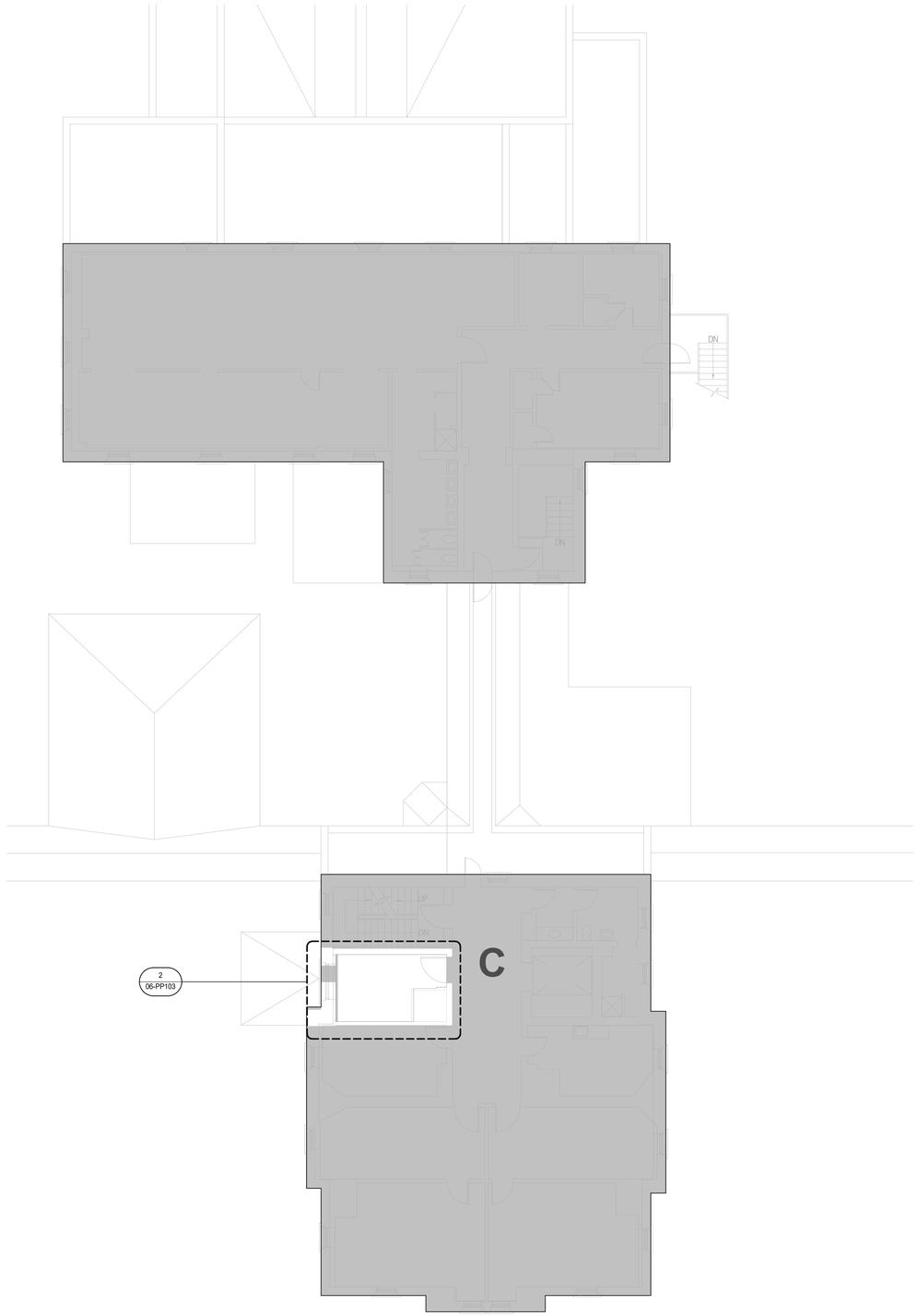
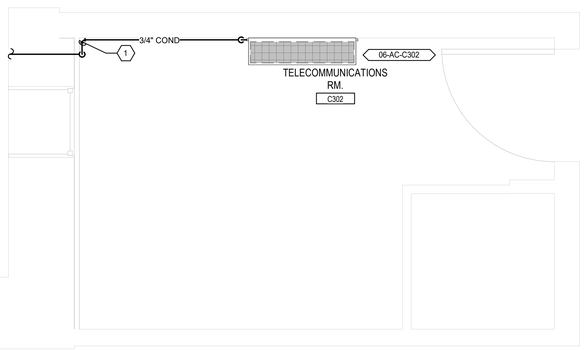
Graphic Scale: 1/16" = 1'-0"
Graphic Scale: 1/8" = 1'-0"
Graphic Scale: 3/32" = 1'-0"
Graphic Scale: 1/4" = 1'-0"
Graphic Scale: 3/16" = 1'-0"
Graphic Scale: 1/2" = 1'-0"
Graphic Scale: 3/4" = 1'-0"
Graphic Scale: 1" = 1'-0"
Graphic Scale: 1 1/2" = 1'-0"

KEY NOTES

1. ROUTE 3/4" CONDENSATE DRAIN OUT OF BUILDING TO GRADE.



1 BUILDING 06 LEVEL 03 PLAN - PLUMBING
1/8" = 1'-0"



2 RM. C302 ENLARGED PLAN - PLUMBING
1/2" = 1'-0"

TRUE NORTH
PLAN NORTH

Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
BUILDING 06 LEVEL 03 - PLUMBING FLOOR PLAN

Approved:

Phase
FINAL BID DOCUMENTS

Sprinklered
FULLY SPRINKLERED

Project Title
EHRM INFRASTRUCTURE UPGRADES – MILWAUKEE, WI

Location
5000 W. NATIONAL AVENUE MILWAUKEE, WI

Issue Date SEPTEMBER 5, 2025 | **Checked** AW | **Drawn** DAW

Project Number 695-21-700

Building Number 06

Drawing Number 06-PP103

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