PLUMBING SYMBOLS AND ABBREVIATION LEGEND

SAN	SANITARY SEWER ABOVE GROUND
SAN	BURIED SANITARY SEWER - EXISTING TO REMAIN
	DOMESTIC COLD WATER SUPPLY PIPING
	HOT WATER SUPPLY PIPING
	HOT WATER RETURN PIPING
V	VENT LINE
VAC	VACUUM LINE
O	OXYGEN LINE
MA	MEDICAL AIR LINE
	BALL VALVE
SA	SHOCK ARRESTOR - SIZE AS MARKED
	BACKFLOW PREVENTER
CO	CLEANOUT AT CEILING (CO) OR WALL (WCO)
FCO	CLEANOUT AT FLOOR (FCO)
	STRAINER
	DRAIN WITH P-TRAP
	UNION
	CHECK VALVE
	HOSE BIBB
	WALL HYDRANT
N.T.S.	NOT TO SCALE
G.C.	GENERAL CONTRACTOR
CW	COLD WATER
HW	HOT WATER
HWR	HOT WATER RETURN
SS	SOIL STACK
VS	VENT STACK
WS	WASTE STACK
VTR	VENT THRU ROOF
I.E.	INVERT ELEVATION
	SQUARE FEET
CO	CLEANOUT TO FINISHED FLOOR
A.F.F.	ABOVE FINISHED FLOOR
ADA	AMERICAN DISABILITIES ACT
AB	PIPING OR DEVICE TO BE ABANDONED IN PLACE
XR	EXISTING TO REMAIN
TYP	TYPICAL
	INDICATES POINT OF CONNECTION TO EXISTING
	DROP
	RISE
	CAP
	VACUUM OUTLET
	COMPRESSED AIR OUTLET
	OXYGEN GAS OUTLET
F-1, F-2, ETC.	PLUMBING FIXTURE TYPE- SEE SPECIFICATION
1 2 ETC.	KEYED PLUMBING NOTE DESCRIBING WORK TO BE DONE
XXX 1	EQUIPMENT ITEM
4 XX	STACK DESIGNATION

PLUMBING FIXTURE SCHEDULE

SEE SPECIFICATIONS FOR FIXTURE TYPE DESCRIPTION

TYPE	DESCRIPTION	SIZE								COMMENTS
		FIXTURE	WASTE	VENT	HW	CW	VACUUM	AIR	OXYGEN	
P-103	WATER CLOSET	----	4"	2"	----	1"	----	----	----	FLOOR MOUNTED, BATTERY OPERATED SENSOR TYPE FLUSH VALVE, ACCESSIBLE
P-418	LAVATORY - ACCESSIBLE	----	2"	2"	1/2"	1/2"	----	----	----	WALL HUNG, MANUAL FAUCET - ACCESSIBLE
P-107	WATER CLOSET	----	4"	2"	----	1"	----	----	----	FLOOR MOUNTED, WALL MOUNTED PUSH BUTTON FLUSH VLAVE - BARIATRIC (750 LB)
EP-103	ELECTRIC WATER COOLER - ACCESSIBLE	----	2"	2"	----	1/2"	----	----	----	HANDICAP, WALL HUNG
P-502	MOP BASIN	----	4"	2"	1/2"	1/2"	----	----	----	PROVIDE MOP HOOK
P-528	STAINLESS STEEL SINK	----	2"	2"	1/2"	1/2"	----	----	----	UNDERMOUNTED
S-2	STAINLESS STEEL SINK	----	2"	2"	1/2"	1/2"	----	----	----	UNDERMOUNTED
V	VACUUM OUTLET	----	----	----	----	----	3/4"	----	----	WALL MOUNTED OULETS - PROVIDE ADDITONAL OUTLET FOR VACUUM BOTTLE HOLDER (1)
A	MEDICAL AIR OUTLET	----	----	----	----	----	----	1/2"	----	WALL MOUNTED OULETS
O	OXYGEN OUTLET	----	----	----	----	----	----	----	1/2"	WALL MOUNTED OULETS
WB-1	WALL BOX	----	2"	2"	1/2"	1/2"	----	----	----	WASHING MACHINE OUTLET BOX
P-505	CLINICAL SERVICE SINK	----	4"	2"	1/2"	1"	----	----	----	WALL MOUNTED, ADA HEIGHT BOWL
BPW-1	BEDPAN WASHER	----	---	---	1/2"	1/2"	----	----	----	WALL MOUNTED
P-404	LAVATORY	----	2"	2"	1/2"	1/2"	----	----	----	SOLID SURFACE
P-711	SHOWER	----	2"	2"	1/2"	1/2"	----	----	----	PROVIDE QUICK DISCONNECT AT HOSE CONNECTION
P-801	WALL HYDRANT	----	---	---	---	1/2"	----	----	----	

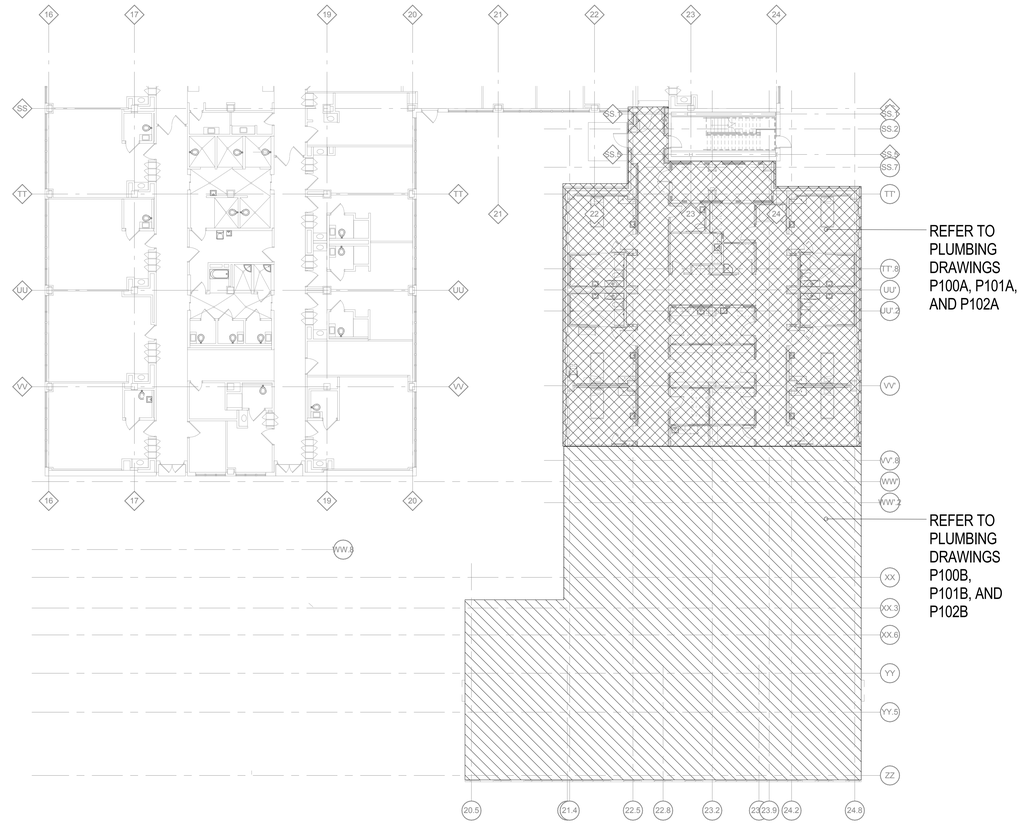
(1) REFER TO ARCHITECTURAL DRAWINGS FOR FINAL VACUUM BOTTLE HOLDER LOCATION

MISCELLANEOUS EQUIPMENT AND SPECIALTIES

TAG	DESCRIPTION	WASTE CONN	VENT CONN	HOT WATER	COLD WATER	REMARKS
SA	SHOCK ARRESTOR					SIZED PER FIXTURE UNIT CAPACITY
SD-1	SHOWER DRAIN	4"				
FD-1	FLOOR DRAIN	4"				
FD-1-TP	FLOOR DRAIN W/ TRAP PRIMER	4"			1/2"	PROVIDE 1/2" CW CONNECTION
RD-1	ROOF DRAIN					SEE PLAN FOR CONNECTION SIZE
ERD-1	EMERGENCY ROOF DRAIN					SEE PLAN FOR CONNECTION SIZE
TP-1	TRAP PRIMER				1/2"	

PLUMBING PIPING INSULATION SCHEDULE

DESCRIPTION	PIPE SIZE	INSULATION THICKNESS	TYPE	COMMENTS
DOMESTIC HOT WATER	UP TO 1-1/2"	1"	FLEXIBLE ELASTOMERIC INSULATION	
DOMESTIC HOT WATER	OVER TO 1-1/2"	1-1/2"	FLEXIBLE ELASTOMERIC INSULATION	
DOMESTIC HOT WATER RETURN	UP TO 1-1/2"	1"	FLEXIBLE ELASTOMERIC INSULATION	
DOMESTIC COLD WATER	ALL SIZES	1"	MINERAL FIBER OR FLEXIBLE ELASTOMERIC	
CONDENSATE DRAIN PIPING	ALL SIZES	1/2"	PVC P-TRAP AND SUPPLY COVERS	PROVIDE FOR DOMESTIC WATER SUPPLIES AND STOPS FOR ACCESSIBLE FIXTURES.



1 PLUMBING KEY PLAN
1/16" = 1'-0"

GENERAL PLUMBING NOTES

1. ALL WORK SHOWN IS NEW UNLESS INDICATED OTHERWISE.
2. ALL EXISTING SERVICES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS.
3. CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS OF ALL UTILITIES BEFORE COMMENCING WORK AND SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGE WHICH MIGHT OCCUR DUE TO THEIR FAILURE TO EXACTLY LOCATE AND PRESERVE ANY SERVICES, INCLUDING WORK IN EXISTING PIPE CHASES.
4. ALL EXISTING PLUMBING LINES, RISERS, ETC. ENCOUNTERED DURING ALTERATIONS, WHETHER INDICATED OR NOT, SHALL BE DETERMINED TO BE ACTIVE OR INACTIVE BY THIS CONTRACTOR, PRIOR TO COMMENCING ANY WORK. IF LINES ARE ACTIVE THEY SHALL BE OFFSET AS REQUIRED AND RECONNECTED AT THEIR ORIGINAL LOCATIONS. OFFSETS SHALL BE OF THE SAME SIZE AND MATERIAL AS EXISTING, INCLUDING ANY INSULATION. REMOVE ALL USELESS AND INACTIVE PIPING BACK TO THE MAIN, STACK OR RISER, AND CAP. ALL USELESS HOLES IN WALLS AND CEILINGS SHALL BE PATCHED TO MAINTAIN FIRE RATING. ALL SUCH WORK SHALL BE RECORDED ON THE "RECORD" DRAWINGS.
5. THE DRAWINGS ARE DIAGRAMMATIC. THE CONTRACTOR MUST FIELD VERIFY ACTUAL CONDITIONS AT THE SITE PRIOR TO PROCEEDING WITH THE WORK. COORDINATE INSTALLATION OF ALL NEW PIPING, EQUIPMENT, ETC. WITH ALL OTHER TRADES.
6. PATCH ALL OPENINGS IN EXISTING CONSTRUCTION WHERE PLUMBING PIPING HAS BEEN REMOVED, OR WHERE PLUMBING PIPING TO REMAIN IS NOT SEALED. MAINTAIN EXISTING RATING.
7. COORDINATE LOCATIONS OF FLOOR DRAIN LOCATIONS WITH ACTUAL EQUIPMENT BEING INSTALLED.
   ALL HORIZONTAL SANITARY DRAINAGE PIPING IS PITCHED AT 1/4"/FT UP TO 3" DIA. , 1/8"/FT FOR 4" DIA. TO 8" DIA., LARGER SIZES AS NOTED. ALL HORIZONTAL STORM DRAINAGE PIPING IS PITCHED AT 1/8"/FT.
8. THE PLUMBING DRAWINGS DO NOT INDICATE ALL STRUCTURAL BEAMS, COLUMNS OR EXACT SIZES. SOME DEVIATIONS TO THE PIPING LAYOUT MAY BE REQUIRED. COORDINATE ACTUAL LOCATIONS OF THE PLUMBING LINES DURING CONSTRUCTION.
9. CONTRACTOR TO COMPLY WITH ALL WATER AND SEWER REQUIREMENTS SET FORTH BY THE AUTHORITY HAVING JURISDICTION.
10. ALL END OF RUN SANITARY PIPING SHALL BE A MINIMUM OF 18" BELOW FINISHED FLOOR.

PROJECT NORTH

FULLY SPRINKLERED BID DOCUMENTS

Revisions:	Date

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AE Works Project Number: 13030

Drawing Title
PLUMBING - SYMBOLS, SCHEDULES & NOTES

Approved: Project Director

Project Title:
H.H. MCGUIRE VAMC - CONSTRUCT SPINAL CORD ENHANCEMENT CENTER

Location:
1201 Broad Rock Boulevard, Richmond, VA 23249

Date:	Checked:	Drawn:
09/11/2017	MEW	MEW

Project Number 652 - 314

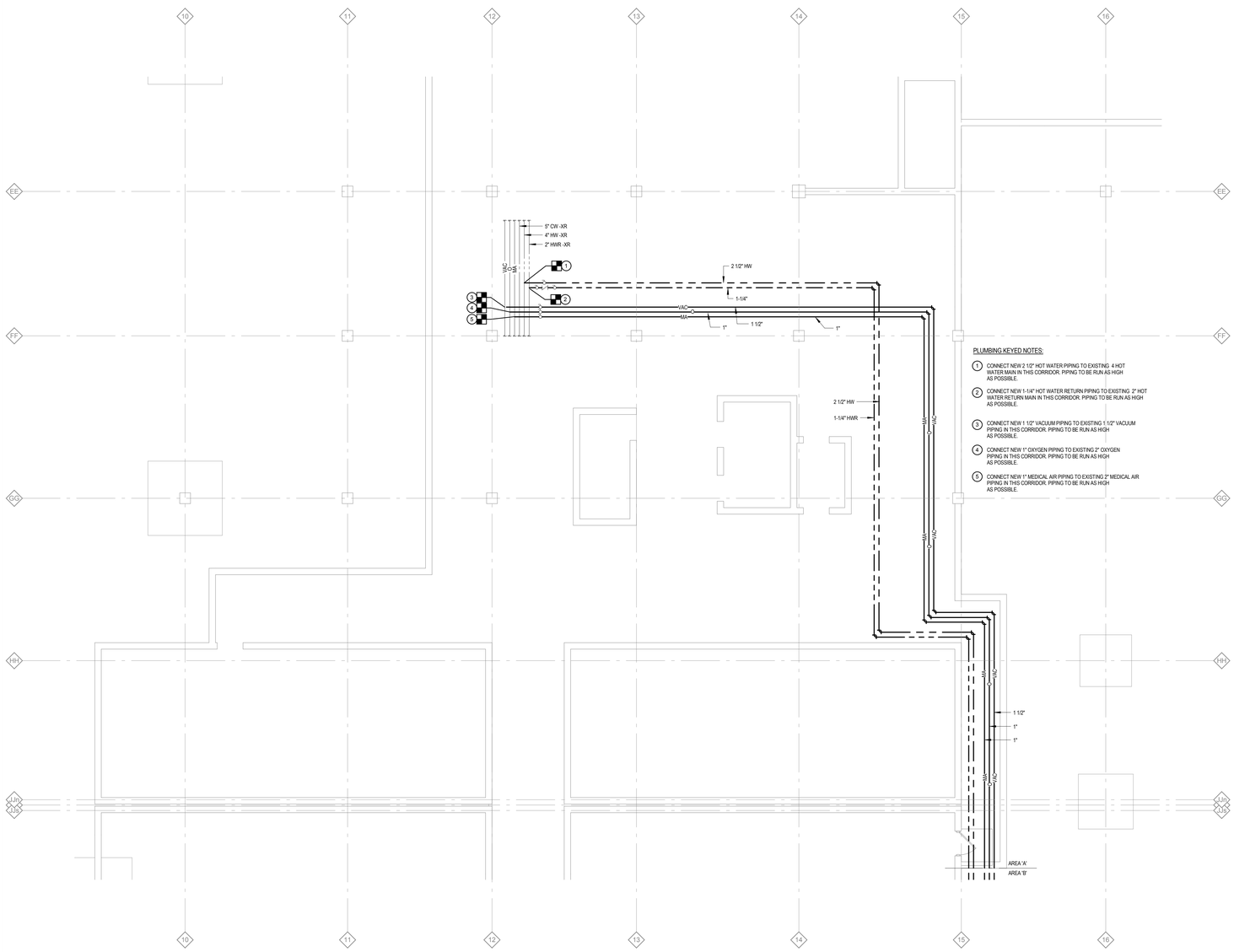
Building Number 500

Drawing Number P001

Office of Construction and Facilities Management

Department of Veterans Affairs

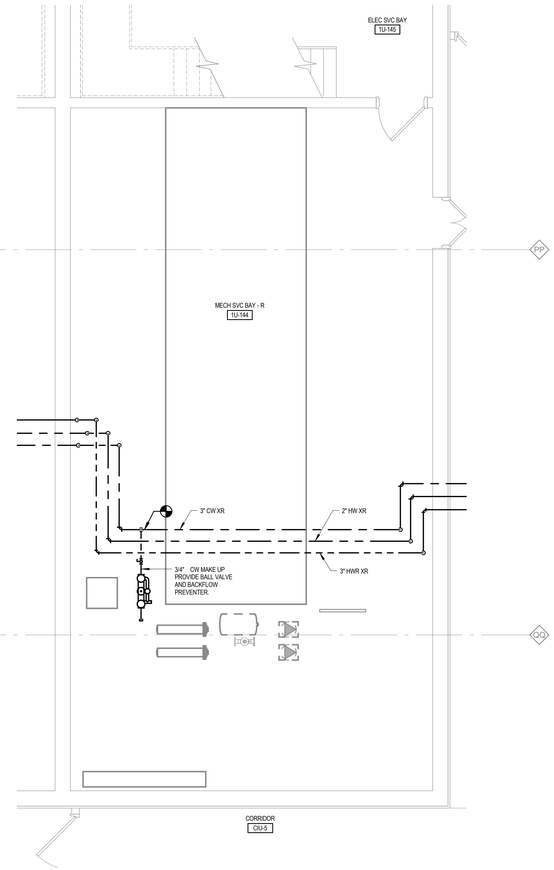
VA FORM 08-6231



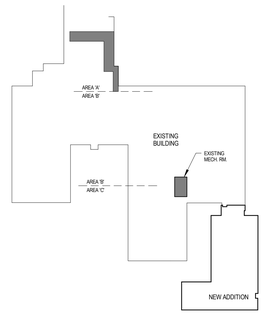
PLUMBING KEYED NOTES:

1. CONNECT NEW 2 1/2" HOT WATER PIPING TO EXISTING 4 HOT WATER MAIN IN THIS CORRIDOR. PIPING TO BE RUN AS HIGH AS POSSIBLE.
2. CONNECT NEW 1-1/4" HOT WATER RETURN PIPING TO EXISTING 2" HOT WATER RETURN MAIN IN THIS CORRIDOR. PIPING TO BE RUN AS HIGH AS POSSIBLE.
3. CONNECT NEW 1 1/2" VACUUM PIPING TO EXISTING 1 1/2" VACUUM PIPING IN THIS CORRIDOR. PIPING TO BE RUN AS HIGH AS POSSIBLE.
4. CONNECT NEW 1" OXYGEN PIPING TO EXISTING 2" OXYGEN PIPING IN THIS CORRIDOR. PIPING TO BE RUN AS HIGH AS POSSIBLE.
5. CONNECT NEW 1" MEDICAL AIR PIPING TO EXISTING 2" MEDICAL AIR PIPING IN THIS CORRIDOR. PIPING TO BE RUN AS HIGH AS POSSIBLE.

1 PLUMBING - LOWER LEVEL TAP IN - AREA 'A'
1/8" = 1'-0"



2 PLUMBING- EXISTING MECH ROOM
1/4" = 1'-0"



KEY PLAN

FIRE RATED PARTITION LEGEND

- PARTITION TO LIMIT THE TRANSFER OF SMOKE (NO FIRE RATING)
- 1-HOUR FIRE RATED PARTITION
- 2-HOUR FIRE RATED PARTITION

PROJECT NORTH

FULLY SPRINKLERED BID DOCUMENTS

Revisions:	Date

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AE Works Project Number: 13030

Drawing Title
PLUMBING FLOORPLAN - LOWER LEVEL AND LEVEL ONE TAP IN

Approved: Project Director

Project Title:
H.H. MCGUIRE VAMC - CONSTRUCT SPINAL CORD ENHANCEMENT CENTER

Location:
1201 Broad Rock Boulevard, Richmond, VA 23249

Date:	Checked:	Drawn:
09/11/2017	MEW	MEW

Project Number 652 - 314

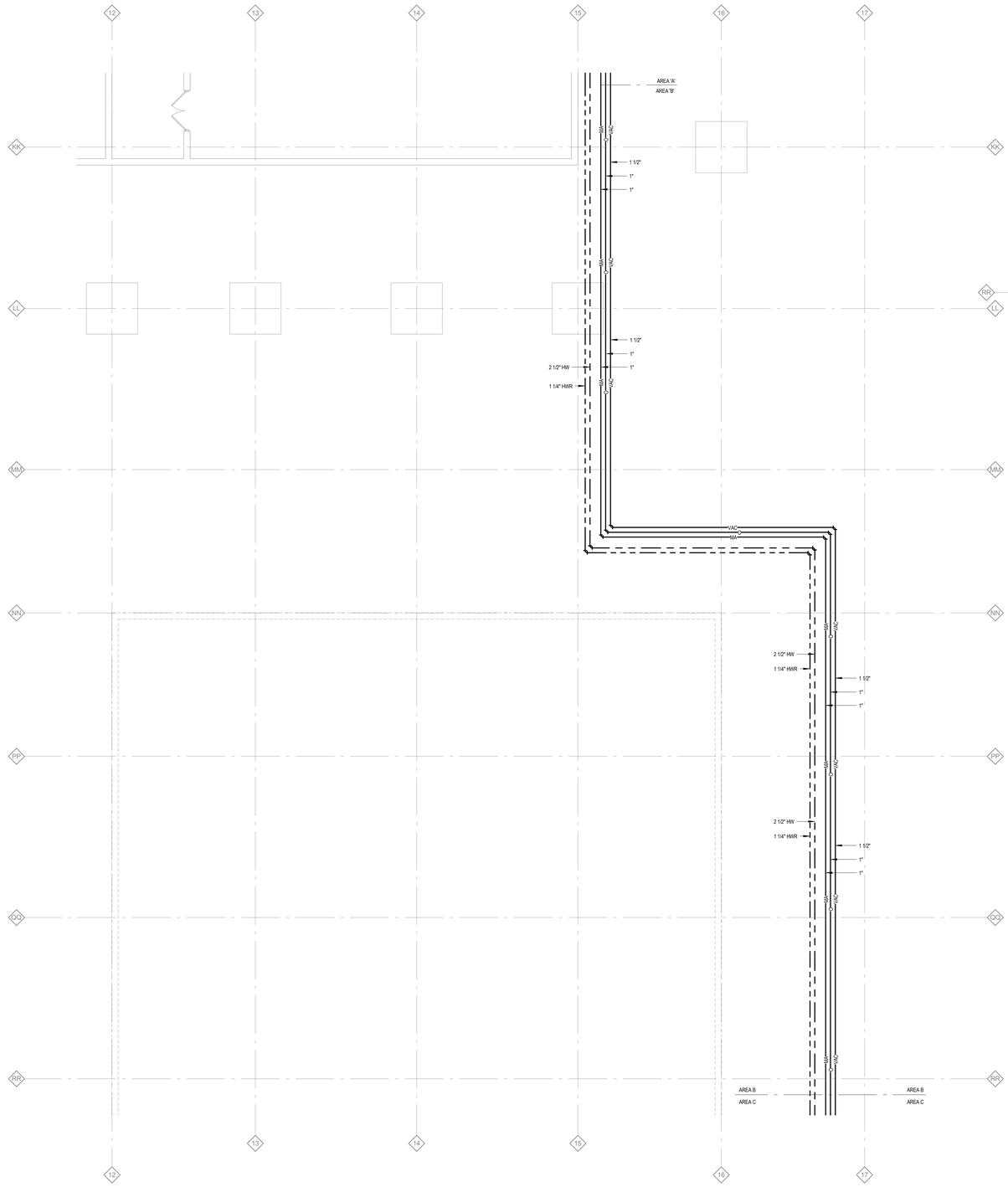
Building Number 500

Drawing Number P100A

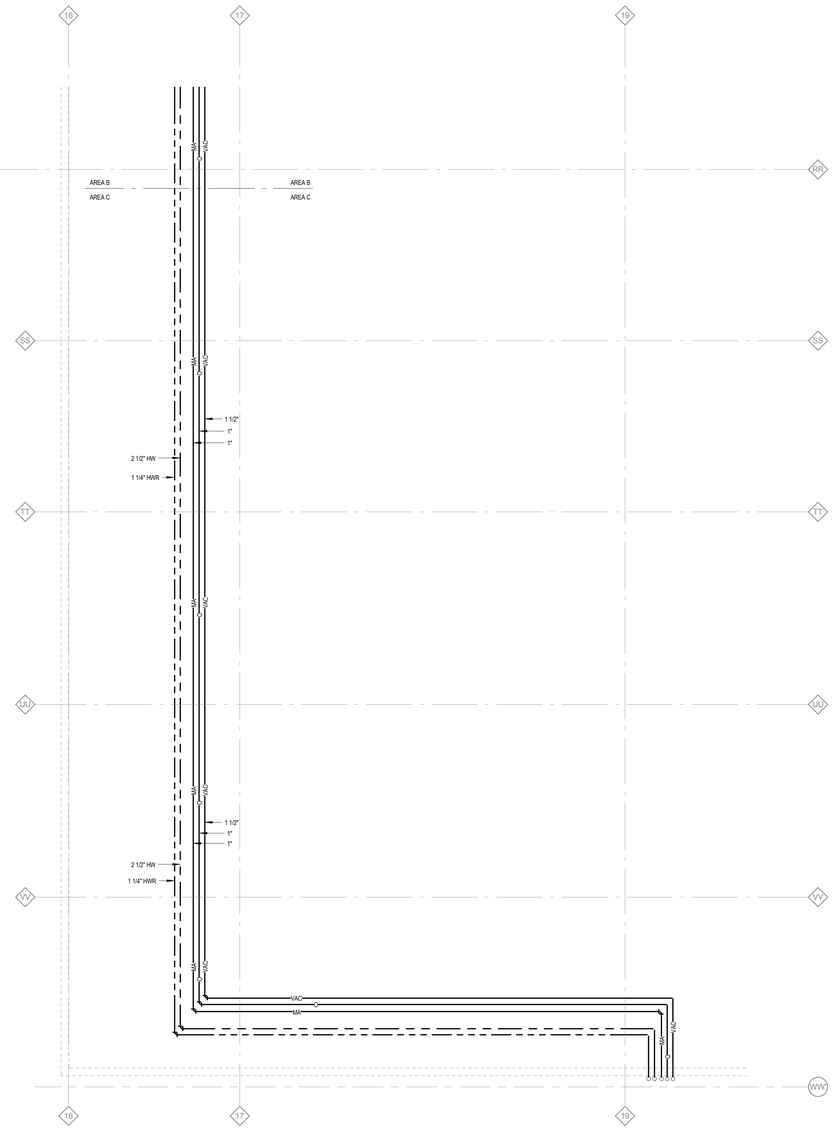
Office of Construction and Facilities Management

Department of Veterans Affairs

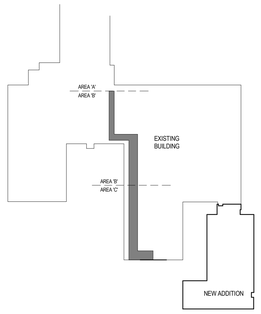
VA FORM 08-6231



1 PLUMBING - LOWER LEVEL - AREA 'B'
1/8" = 1'-0"



2 PLUMBING - LOWER LEVEL - AREA 'C'
1/8" = 1'-0"



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Drawing Title
PLUMBING FLOORPLAN - LOWER LEVEL - AREA 'B' & 'C'

Approved: Project Director

Project Title:
H.H. MCGUIRE VAMC - CONSTRUCT SPINAL CORD ENHANCEMENT CENTER

Location:
1201 Broad Rock Boulevard, Richmond, VA 23249

Date: 09/11/2017 **Checked:** MEW **Drawn:** MEW

Project Number 652 - 314

Building Number 500

Drawing Number P100B

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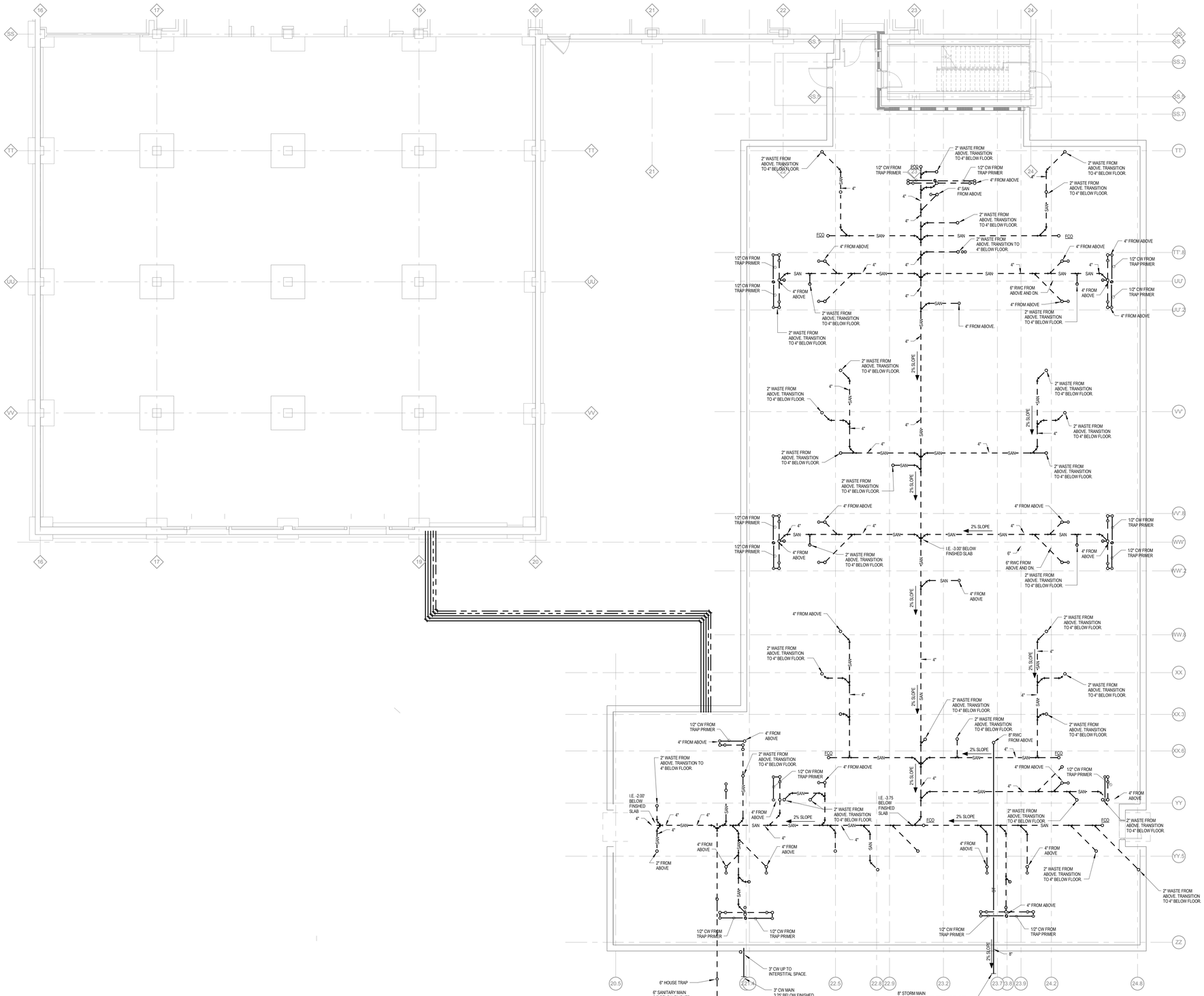
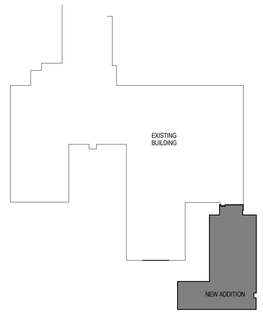


1 PLUMBING UNDERGROUND PLAN
1/8" = 1'-0"



KEY PLAN

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Revisions:	Date

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Drawing Title
PLUMBING FLOORPLAN - UNDER FLOOR

Approved: Project Director

Project Title:
H.H. MCGUIRE VAMC - CONSTRUCT SPINAL CORD ENHANCEMENT CENTER

Location:
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Date:	Checked:	Drawn:
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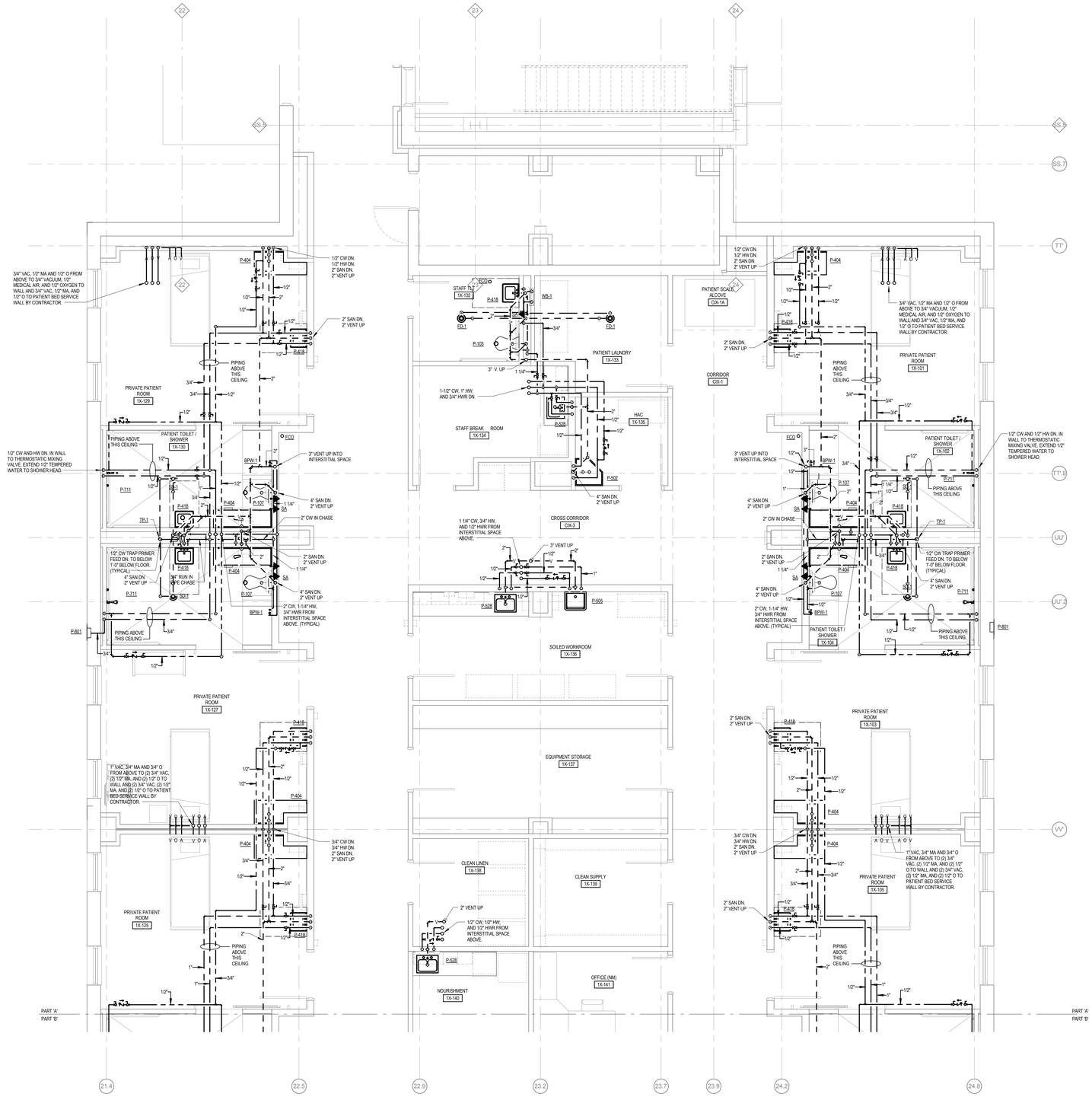
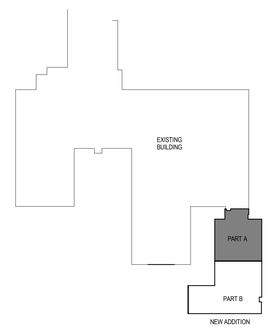


1 PLUMBING - LEVEL ONE - PART 'A'
1/4" = 1'-0"



KEY PLAN

FIRE RATED PARTITION LEGEND

- PARTITION TO LIMIT THE TRANSFER OF SMOKE (NO FIRE RATING)
- 1-HOUR FIRE RATED PARTITION
- 2-HOUR FIRE RATED PARTITION

PROJECT NORTH

FULLY SPRINKLERED BID DOCUMENTS

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Drawing Title
PLUMBING FLOORPLAN - LEVEL ONE - PART 'A'

Approved: Project Director

Project Title:
H.H. MCGUIRE VAMC - CONSTRUCT SPINAL CORD ENHANCEMENT CENTER

Location:
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Drawing Number P101A

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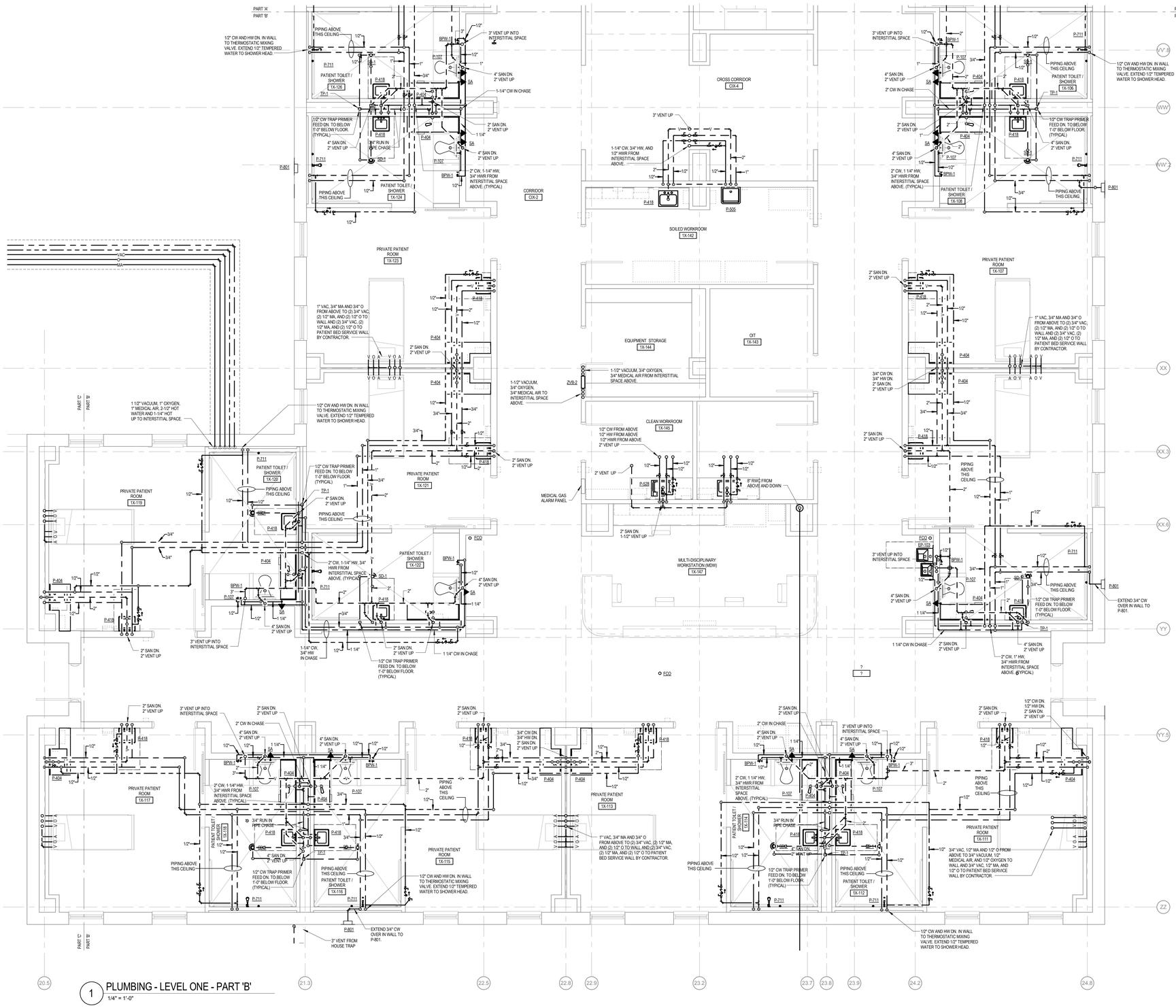

1 PLUMBING - LEVEL ONE - PART 'B'

1/4" = 1'-0"

KEY PLAN

FIRE RATED PARTITION LEGEND

- PARTITION TO LIMIT THE TRANSFER OF SMOKE (NO FIRE RATING)
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PROJECT NORTH

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PLUMBING FLOORPLAN - LEVEL ONE - PART 'B'

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Location:
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Building Number 500

Drawing Number P101B

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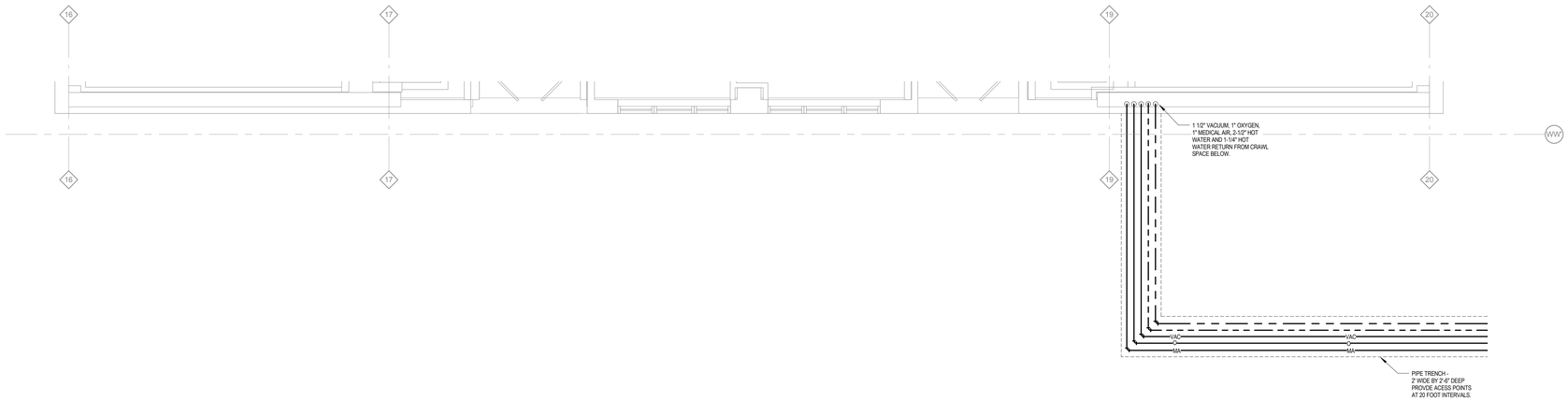

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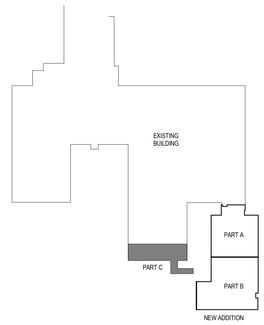

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PROJECT NORTH

FULLY SPRINKLERED BID DOCUMENTS

Revisions:	Date

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Drawing Title
PLUMBING FLOORPLAN - LEVEL ONE - PART 'C'

Approved: Project Director

Project Title:
H.H. MCGUIRE VAMC - CONSTRUCT SPINAL CORD ENHANCEMENT CENTER

Location:
1201 Broad Rock Boulevard, Richmond, VA 23249

Date:	Checked:	Drawn:
09/11/2017	MEW	MEW

Project Number 652 - 314

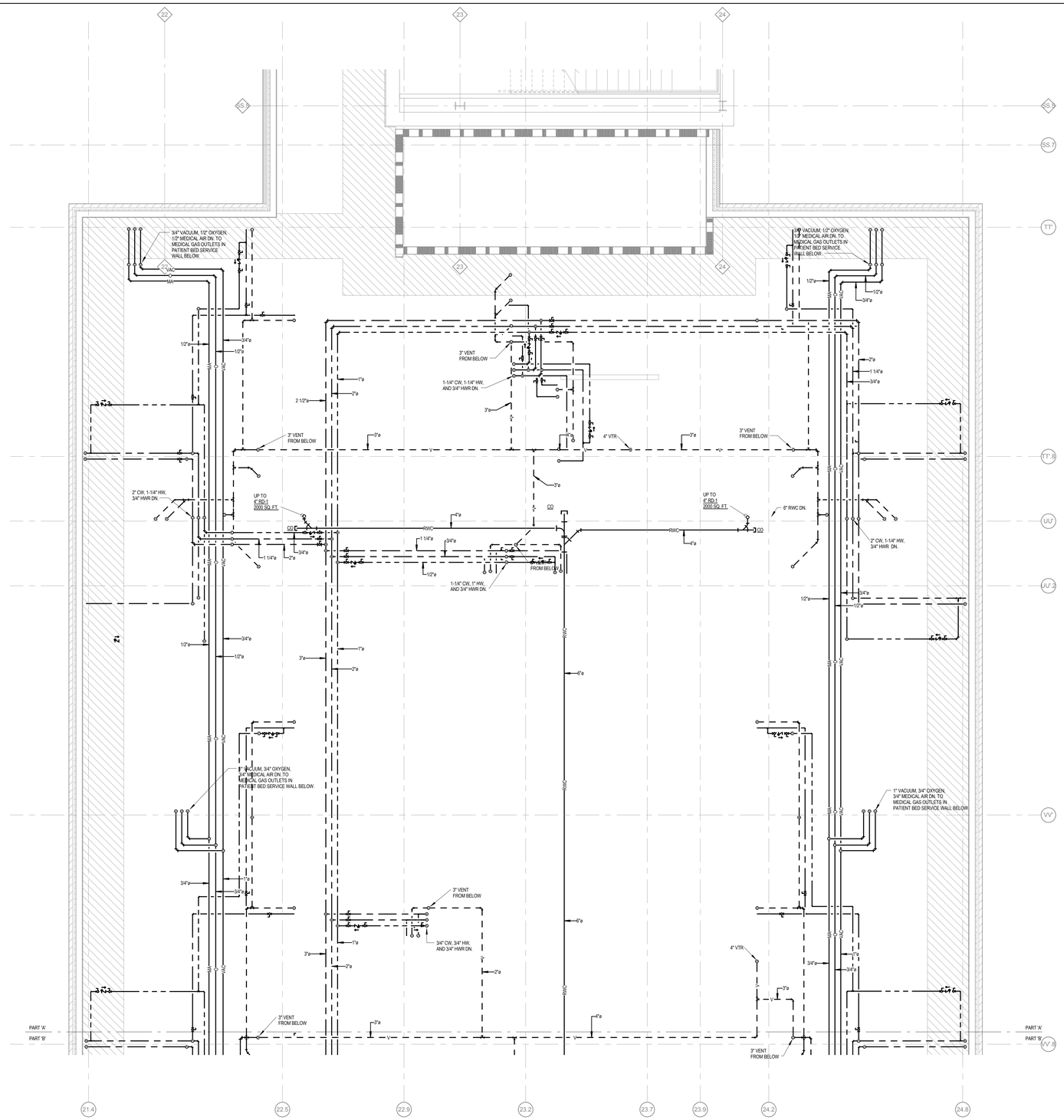
Building Number 500

Drawing Number P101C

Office of Construction and Facilities Management

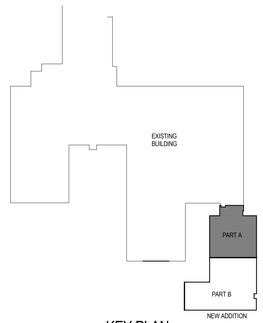
Department of Veterans Affairs

VA FORM 08-6231



1 PLUMBING - LEVEL ONE INTERSTITAL - PART 'A'

1/4" = 1'-0"



KEY PLAN

FIRE RATED PARTITION LEGEND

- PARTITION TO LIMIT THE TRANSFER OF SMOKE (NO FIRE RATING)
- 1-HOUR FIRE RATED PARTITION
- 2-HOUR FIRE RATED PARTITION

PROJECT NORTH

FULLY SPRINKLERED BID DOCUMENTS

Revisions:	Date

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COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — CHRISTOPHER J CHAMPAGNE — ENGINEER — PE075041

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AE Works Project Number: 13030

Drawing Title
PLUMBING FLOORPLAN - LEVEL ONE INTERSTITAL - PART 'A'

Approved: Project Director

Project Title:
H.H. MCGUIRE VAMC - CONSTRUCT SPINAL CORD ENHANCEMENT CENTER

Location:
1201 Broad Rock Boulevard, Richmond, VA 23249

Date: 09/11/2017 **Checked:** MEW **Drawn:** MEW

Project Number 652 - 314

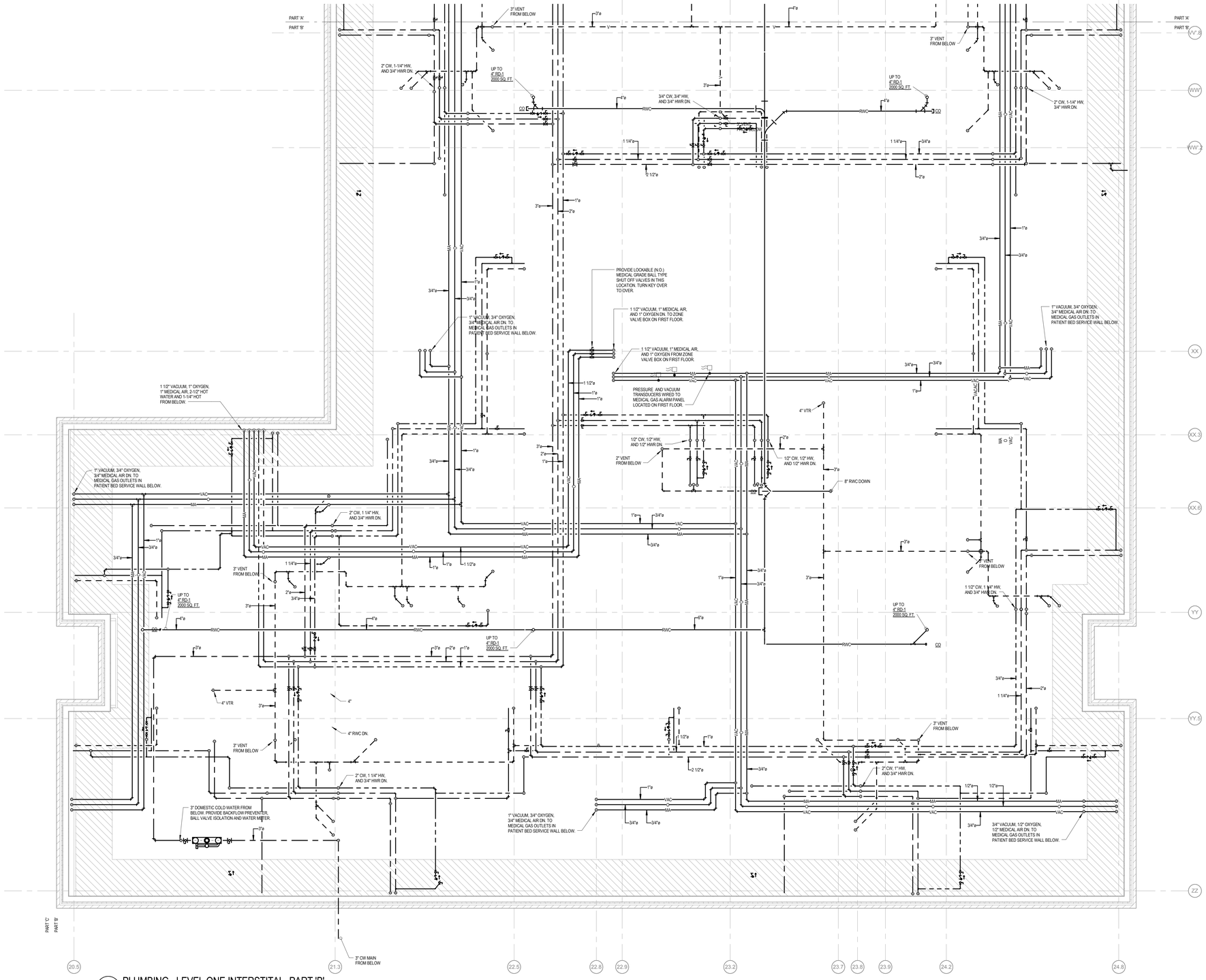
Building Number 500

Drawing Number P102A

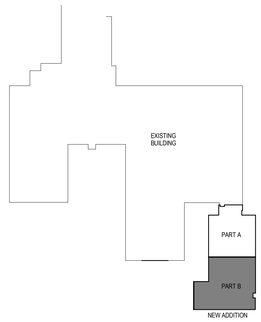
Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231



1 PLUMBING - LEVEL ONE INTERSTITAL- PART 'B'
1/4" = 1'-0"



KEY PLAN

FIRE RATED PARTITION LEGEND

- PARTITION TO LIMIT THE TRANSFER OF SMOKE (NO FIRE RATING)
- 1-HOUR FIRE RATED PARTITION
- 2-HOUR FIRE RATED PARTITION

PROJECT NORTH

FULLY SPRINKLERED BID DOCUMENTS

Revisions:	Date

CONSULTANTS:

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AE Works Project Number: 13030

Drawing Title
PLUMBING FLOORPLAN - LEVEL ONE INTERSTITAL - PART 'B'

Approved: Project Director

Project Title:
H.H. MCGUIRE VAMC - CONSTRUCT SPINAL CORD ENHANCEMENT CENTER

Location:
1201 Broad Rock Boulevard, Richmond, VA 23249

Date:	Checked:	Drawn:
09/11/2017	MEW	MEW

Project Number 652 - 314

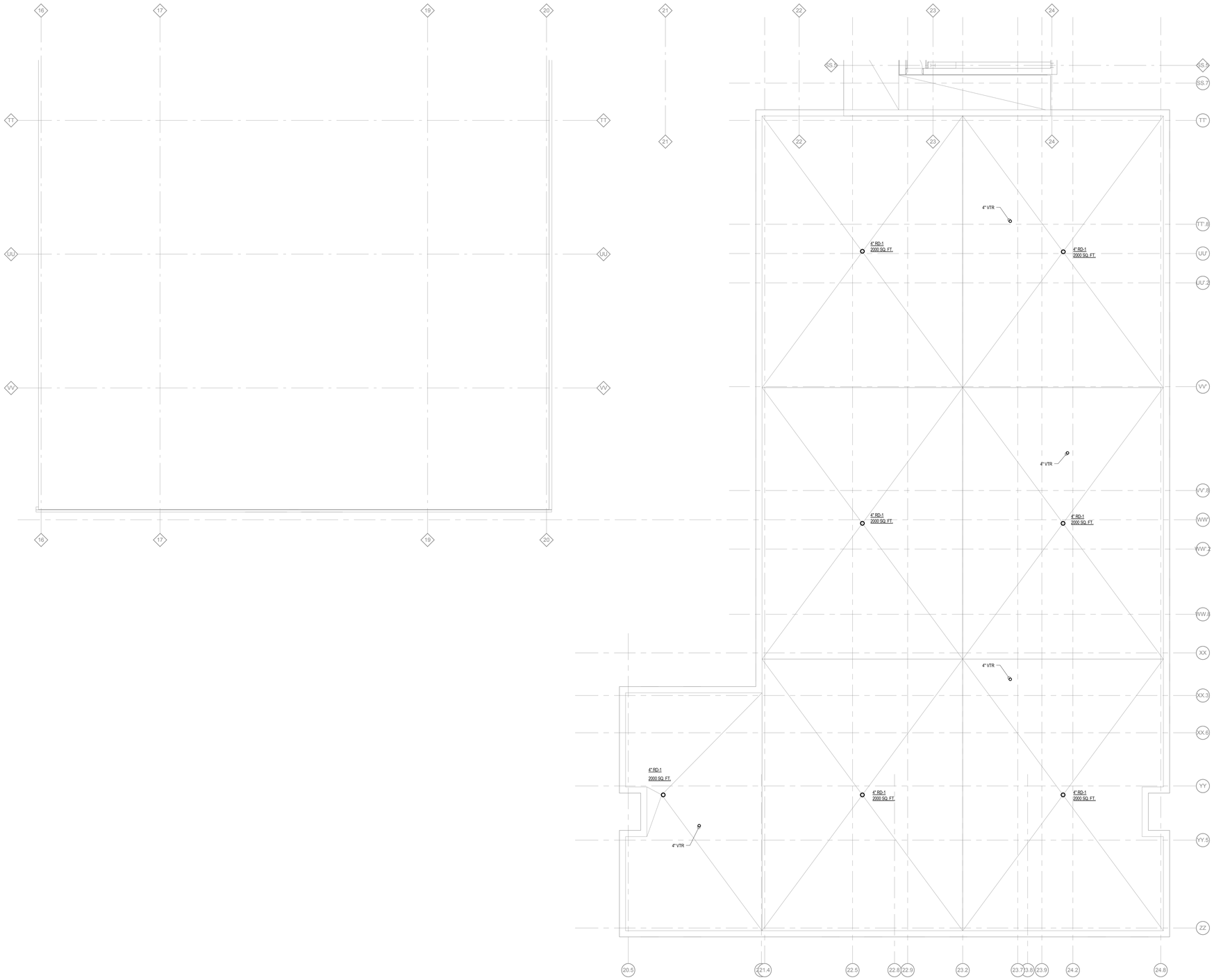
Building Number 500

Drawing Number P102B

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231



KEY PLAN

FIRE RATED PARTITION LEGEND

- PARTITION TO LIMIT THE TRANSFER OF SMOKE (NO FIRE RATING)
- 1-HOUR FIRE RATED PARTITION
- 2-HOUR FIRE RATED PARTITION

PROJECT NORTH

1 PLUMBING - ROOF LEVEL
1/8" = 1'-0"

FULLY SPRINKLERED BID DOCUMENTS

Revisions:	Date

CONSULTANTS:

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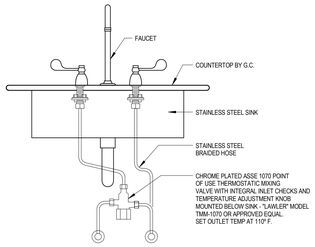
AE Works Project Number: 13030

Drawing Title	PLUMBING FLOORPLAN- ROOF LEVEL
Approved: Project Director	
Project Title:	H.H. MCGUIRE VAMC - CONSTRUCT SPINAL CORD ENHANCEMENT CENTER
Location:	1201 Broad Rock Boulevard, Richmond, VA 23249
Date:	09/11/2017
Checked:	MEW
Drawn:	MEW
Project Number	652 - 314
Building Number	500
Drawing Number	P103

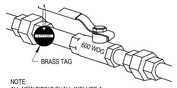
Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

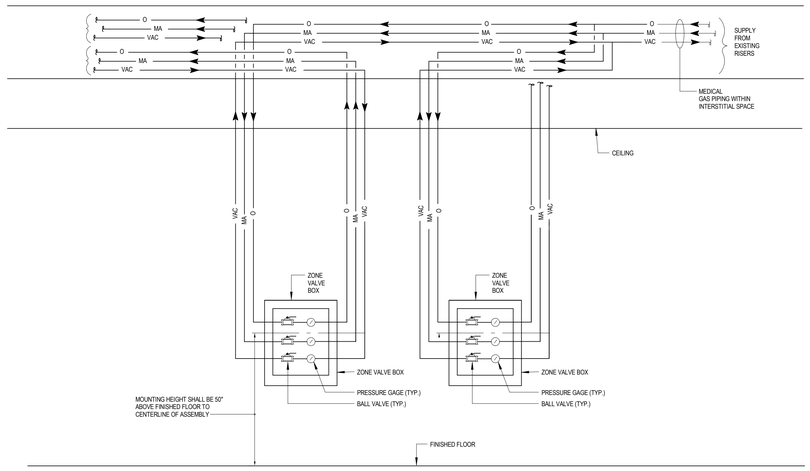


1 BREAKROOM SINK DETAIL
NTS

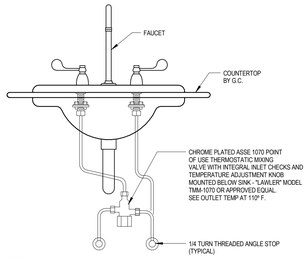


NOTE:
ALL NEW PIPING SHALL INCLUDE A
19 GAGE 1-1/2" DIA. BRASS TAG
ON BRASS CHAIN OR BRASS "S" HOOK.
TAG SHALL BE STAMPED: X-YYY-ZZZ.
VA WILL ADVISE ON EXACT NOMENCLATURE.
ATTACH TO "INLET" OF BALL VALVE HANDLE.

2 NEW BRASS VALVE TAG DETAIL
NTS

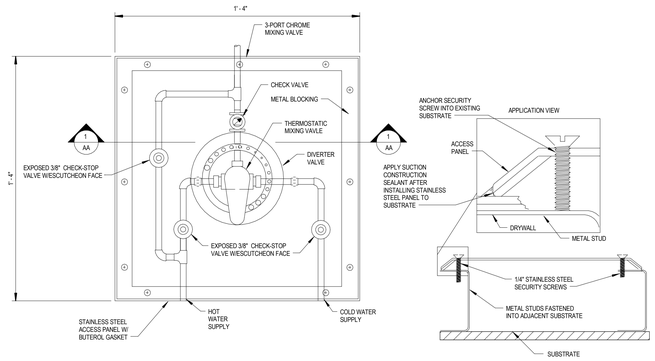


3 MEDICAL GAS ZONE VALVE BOX DETAIL
NTS

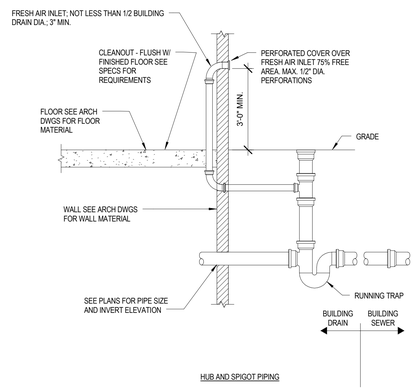


NOTES:
1. INSULATE TAILPIECE, "P" TRAP, SUPPLIES AND STOPS PER SPECIFICATIONS.
2. PROVIDE ALL REQUIRED SUPPLY TUBING REQUIRED FOR COMPLETE INSTALLATION.

4 PUBLIC LAVATORY DETAIL
NTS

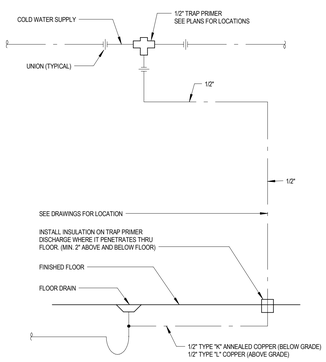


5 SHOWER CONTROL AND BYPASS DETAIL
NTS

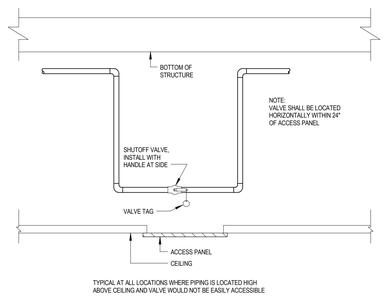


NOTES:
1. SEE ARCHITECTURAL DRAWINGS FOR BUILDING CONSTRUCTION AND MATERIAL REQUIREMENTS. IF WATERPROOFING MEMBRANE EXISTS, ATTACH TO FLASHING COLLAR.
2. SEE SPECIFICATIONS FOR DRAIN AND PIPING MATERIAL REQUIREMENTS.

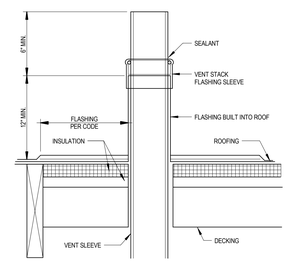
6 BUILDING (HOUSE) TRAP DETAIL
NTS



7 SINGLE TRAP PRIMER PIPING SCHEMATIC
NTS



8 VALVE DROP DETAIL
NTS



9 VENT FLASHING DETAIL
NTS

FULLY SPRINKLERED BID DOCUMENTS

Revisions:	Date

CONSULTANTS:

SEAL

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
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PE075021
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www.ae-works.com

AE Works Project Number: 13030

Drawing Title
PLUMBING DETAILS

Approved: Project Director

Project Title:
H.H. MCGUIRE VAMC - CONSTRUCT SPINAL CORD ENHANCEMENT CENTER

Location:
1201 Broad Rock Boulevard, Richmond, VA 23249

Date: 09/11/2017 **Checked:** MEW **Drawn:** MEW

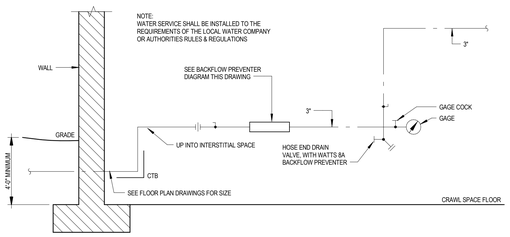
Project Number 652 - 314

Building Number 500

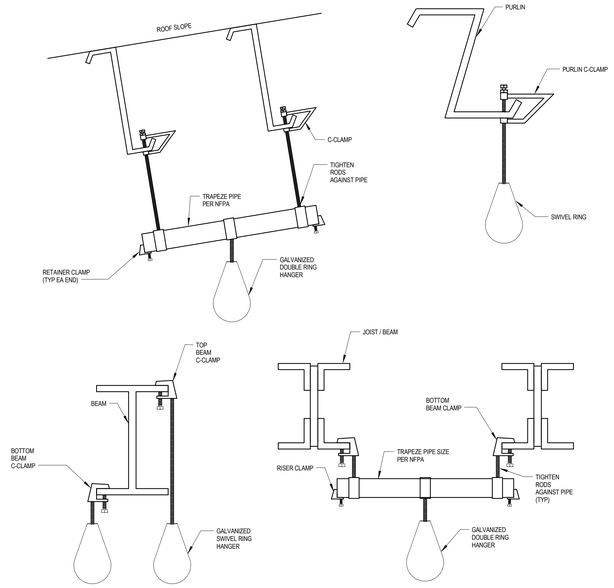
Drawing Number P201

Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-6231



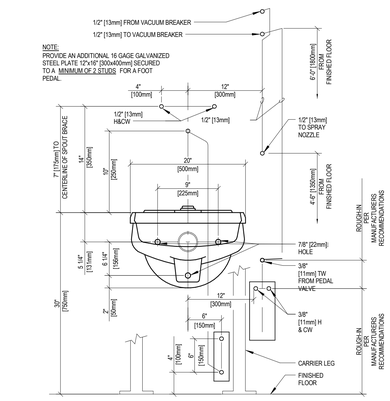
1 WATER SERVICE ENTRY DETAIL
NOT TO SCALE



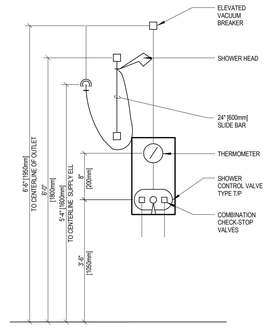
TYPICAL PIPE HANGER DETAIL

NOTE
FIRE PROTECTION CONTRACTOR SHALL INDICATE HANGER TYPE AND LOCATION OF ALL SWAY BRACING AND FLEXIBLE PIPE CONNECTIONS ON SPRINKLER SHOP DRAWINGS. INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 13

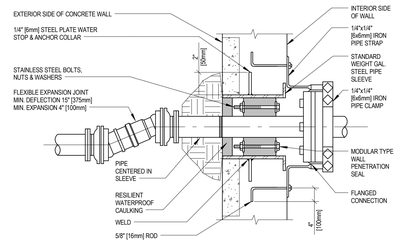
2 PIPE HANGER DETAIL - TYP.1
NOT TO SCALE



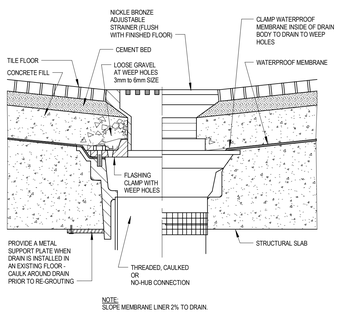
3 (VA) P-505 CLINIC SERVICE SINK ROUGH-IN DETAIL
NOT TO SCALE



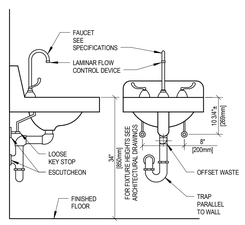
4 (VA) P-711 SHOWER (SPINAL CORD - HAND HELD)
NOT TO SCALE



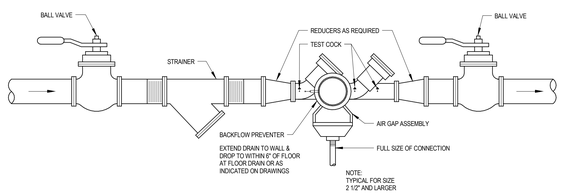
5 (VA) PIPE PENETRATION THROUGH WALLS BELOW GRADE
NOT TO SCALE



6 (VA) TYPE "C" FLOOR DRAIN DETAIL
NOT TO SCALE



7 (VA) TYPICAL WHEELCHAIR LAVATORY DETAIL
NOT TO SCALE



8 BACKFLOW PREVENTER DETAIL
NOT TO SCALE

FULLY SPRINKLERED BID DOCUMENTS

Revisions:	Date

CONSULTANTS:

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ARCHITECTS/ENGINEERS:

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AE Works Project Number: 13030

Drawing Title
PLUMBING DETAILS

Approved: Project Director

Project Title:
H.H. MCGUIRE VAMC - CONSTRUCT SPINAL CORD ENHANCEMENT CENTER

Location:
1201 Broad Rock Boulevard, Richmond, VA 23249

Date: 09/11/2017 **Checked:** MEW **Drawn:** MEW

Project Number 652 - 314

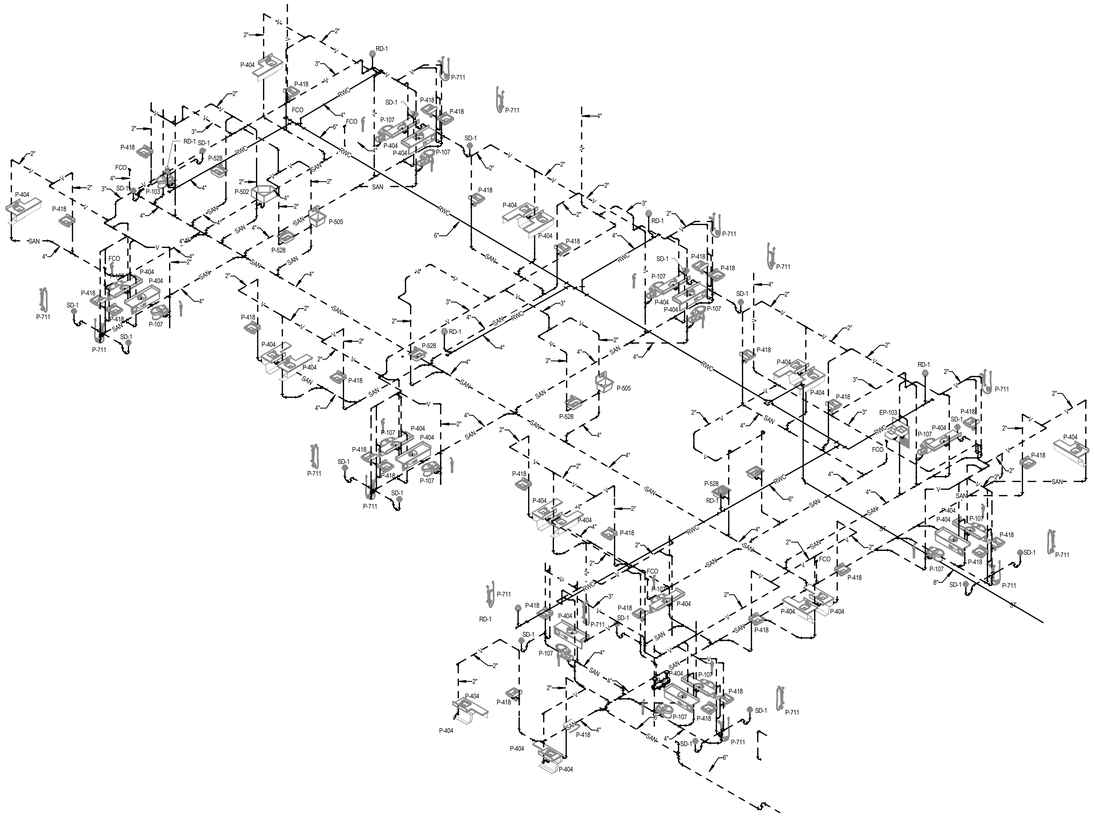
Building Number 500

Drawing Number P202

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231



1 PLUMBING RISER - SANITARY, VENT AND STORM

FULLY SPRINKLERED BID DOCUMENTS

Revisions:	Date

CONSULTANTS:

SEAL

COMMONWEALTH OF PENNSYLVANIA
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AE Works Project Number: 13030

Drawing Title
PLUMBING ISOMETRIC RISER - SANITARY, VENT AND STORM

Approved: Project Director

Project Title:
H.H. MCGUIRE VAMC - CONSTRUCT SPINAL CORD ENHANCEMENT CENTER

Location:
1201 Broad Rock Boulevard, Richmond, VA 23249

Date:	Checked:	Drawn:
09/11/2017	MEW	MEW

Project Number 652 - 314

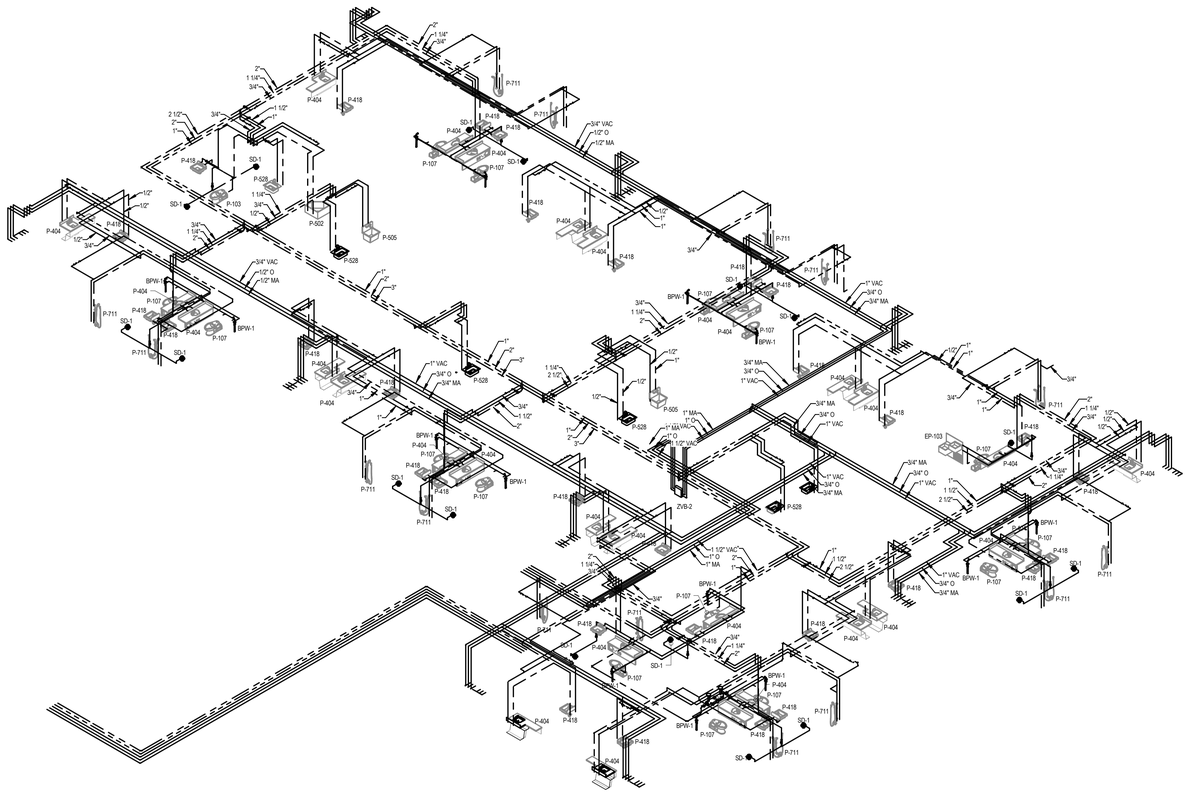
Building Number 500

Drawing Number P301

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231



1 PLUMBING RISER - DOMESTIC WATER & MEDICAL GASES

FULLY SPRINKLERED BID DOCUMENTS

Revisions:	Date

CONSULTANTS:

SEAL

COMMONWEALTH OF PENNSYLVANIA
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AE Works Project Number: 13030

Drawing Title
PLUMBING RISER - DOMESTIC WATER AND MEDICAL GASES

Approved: Project Director

Project Title:
H.H. MCGUIRE VAMC - CONSTRUCT SPINAL CORD ENHANCEMENT CENTER

Location:
1201 Broad Rock Boulevard, Richmond, VA 23249

Date: 09/11/2017
Checked: MEW
Drawn: MEW

Project Number 652 - 314
Building Number 500
Drawing Number P302

Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-6231