











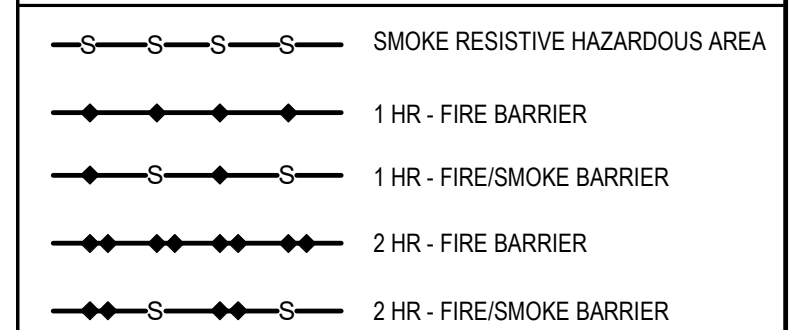
**SHEET NOTES:**

A. REFER TO A-001 FOR STANDARD MOUNTING HEIGHTS AND METAL BACKINGS AS REQUIRED. REFER TO EQUIPMENT DRAWINGS FOR LOCATIONS AND ADDITIONAL DIMENSIONS. SEE SHEETS I-001 AND I-002 FOR EQUIPMENT SCHEDULES.

**KEY NOTES:**

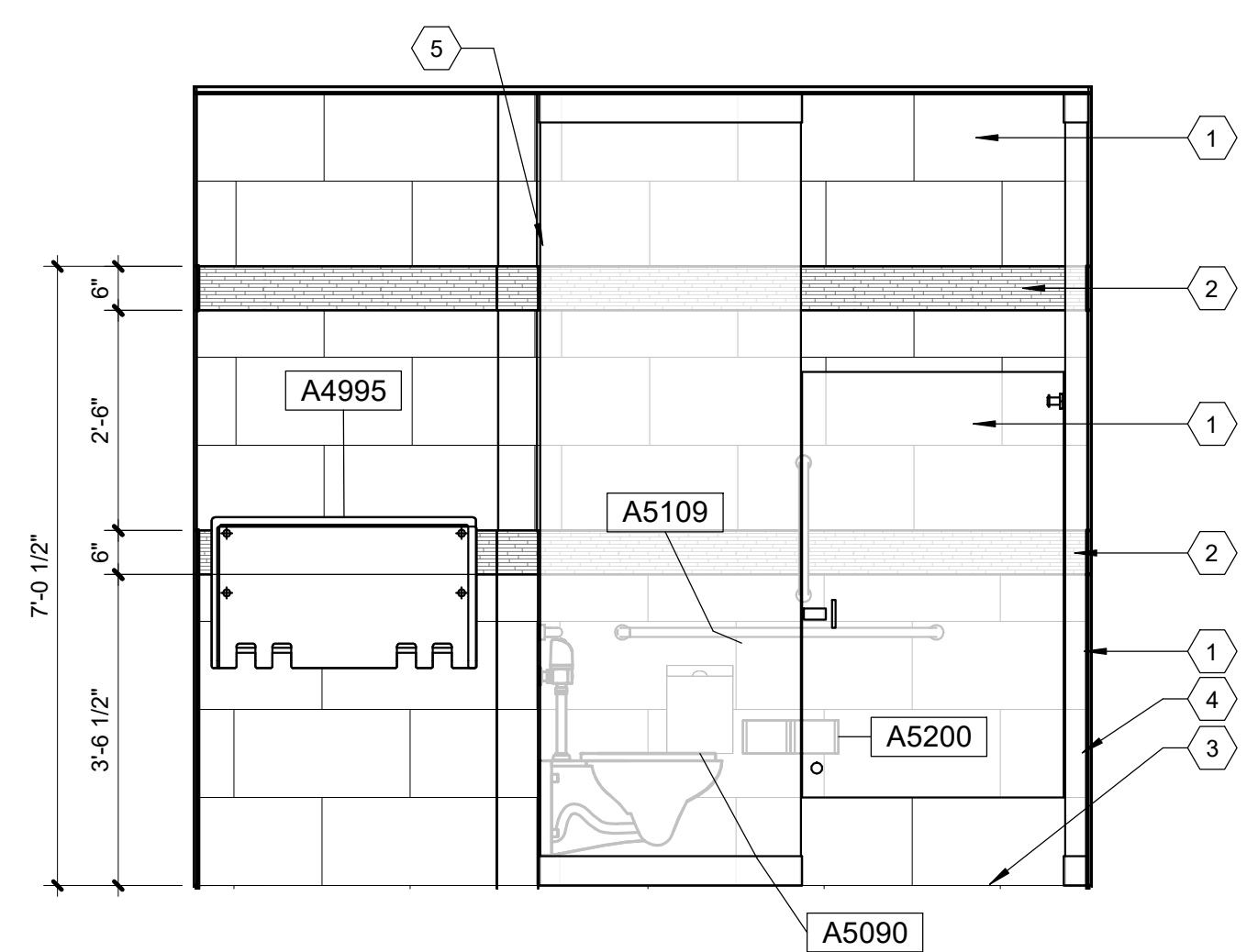
- 1 PWT-1 PORCELAIN WALL TILE
- 2 PWT-2 PORCELAIN WALL TILE
- 3 MEAL COVE TRANSITION
- 4 FINISHED END PANEL
- 5 TP-1 SOLID PLASTIC TOILET PARTITION
- 6 TP-1 SOLID PLASTIC URINAL SCREEN

**WALL RATING LEGEND**

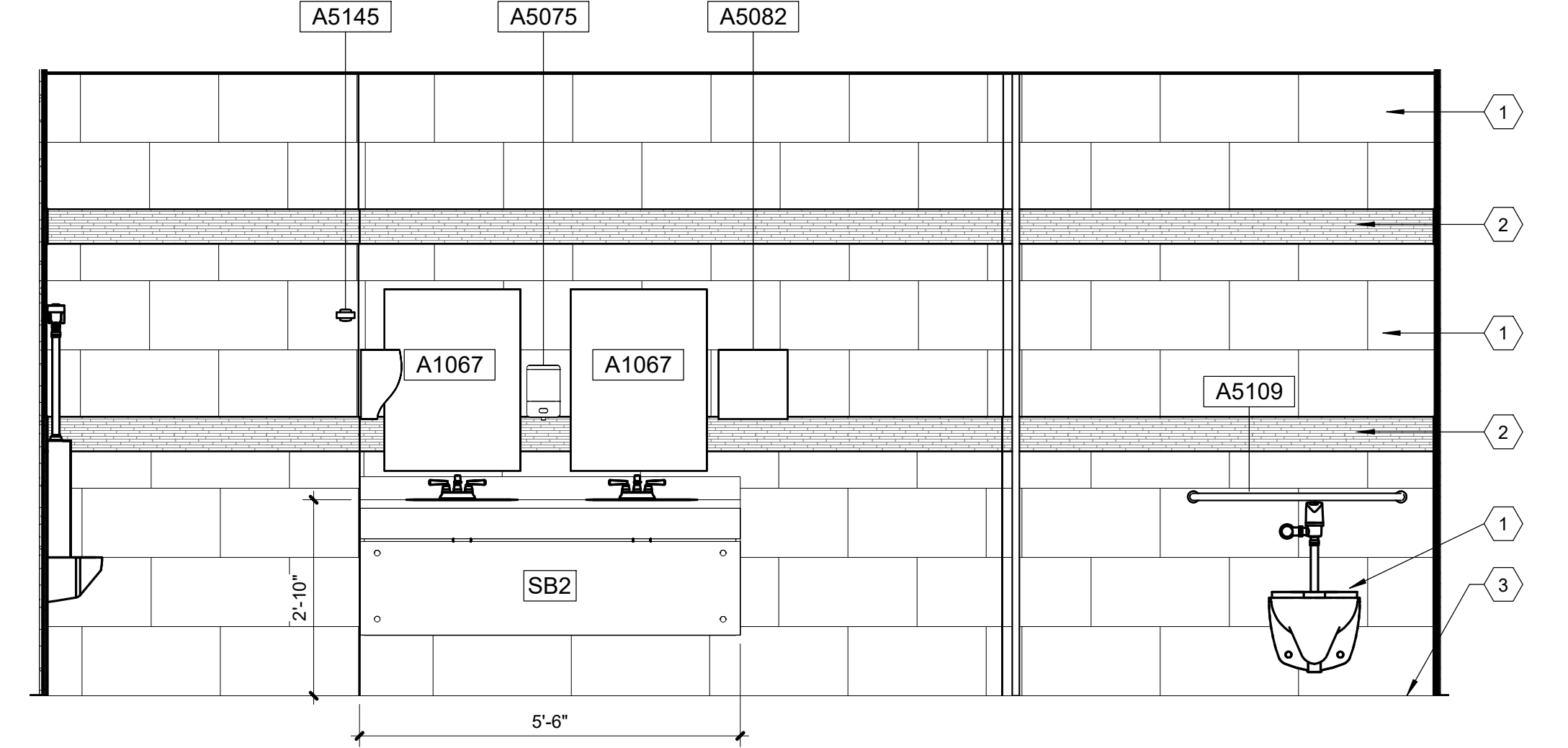


**FULLY SPRINKLERED**

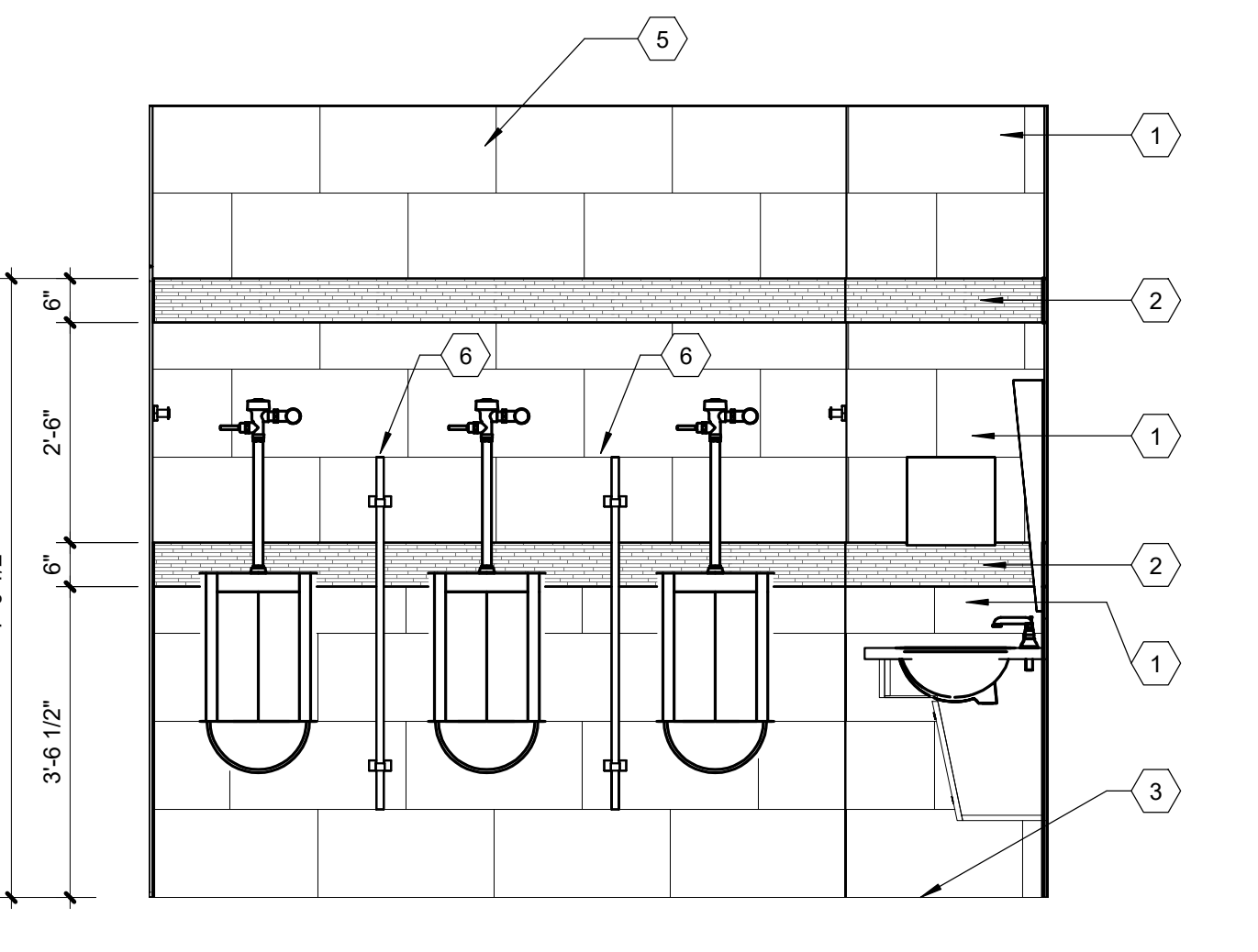
**100% CONSTRUCTION DOCUMENTS**



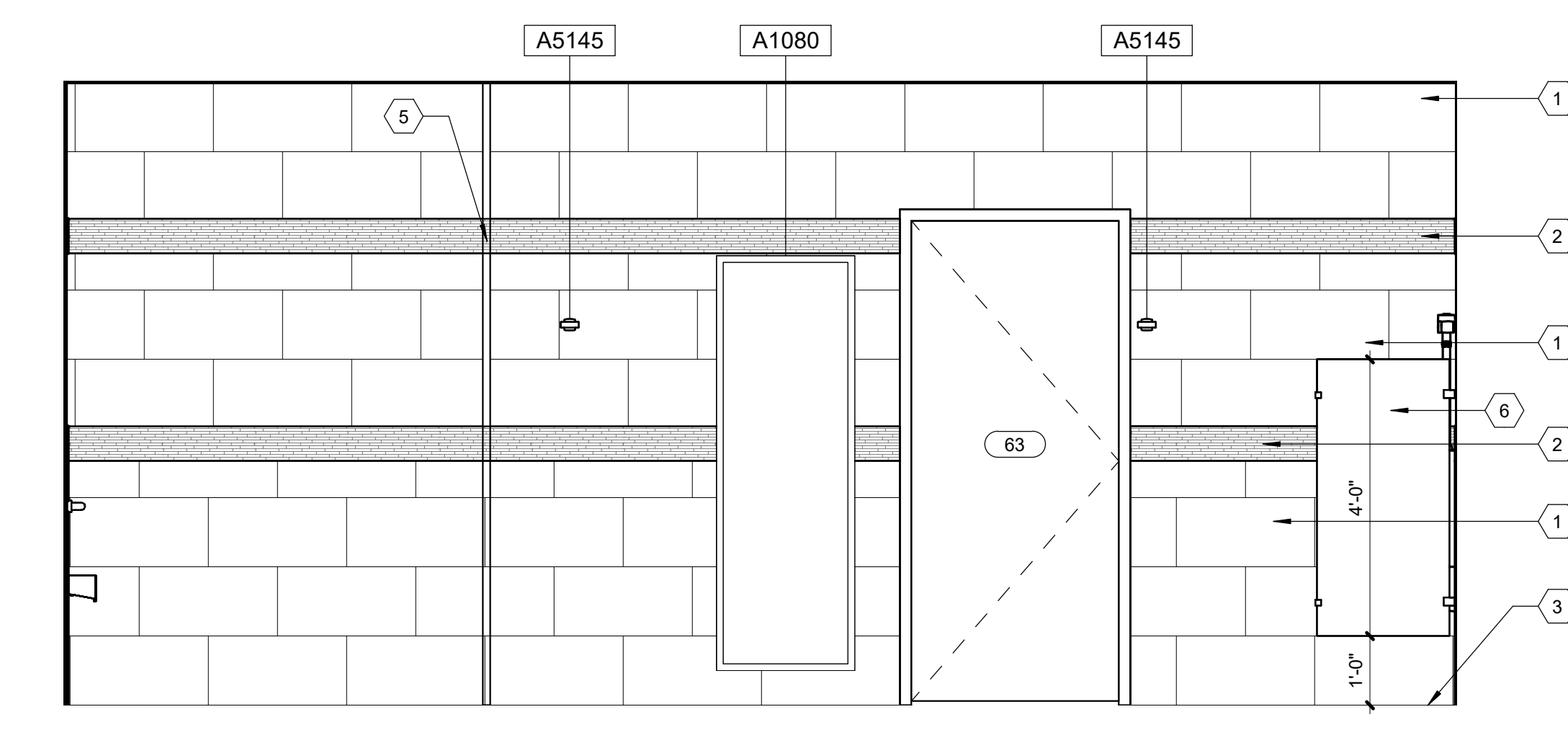
**A MEN'S RESTROOM C1-63 - EAST**  
 Scale: 1/2" = 1'-0"



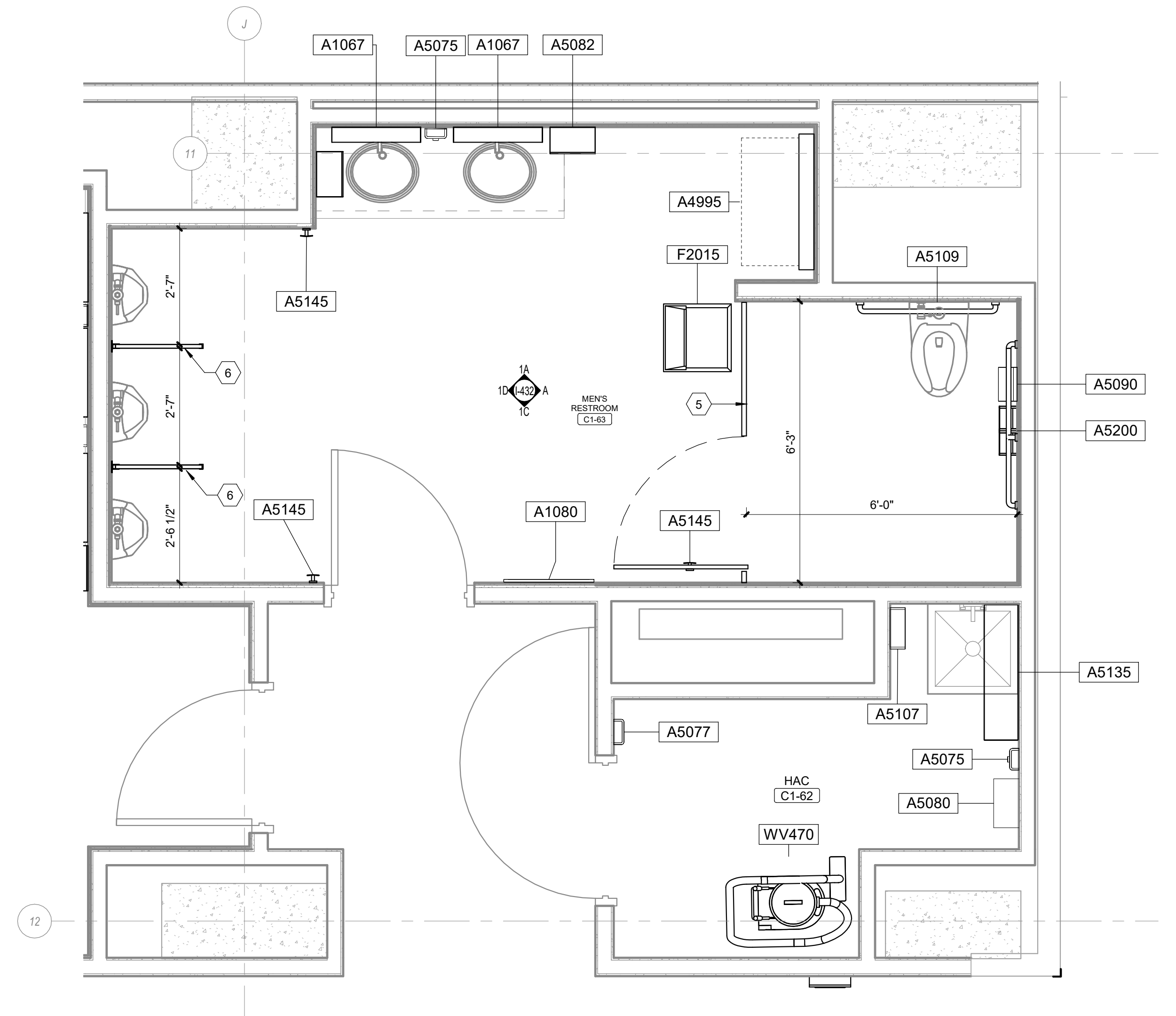
**1A MEN'S RESTROOM C1-63 - NORTH**  
 Scale: 1/2" = 1'-0"



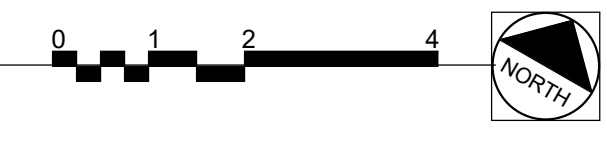
**1D MEN'S RESTROOM C1-63 - WEST**  
 Scale: 1/2" = 1'-0"



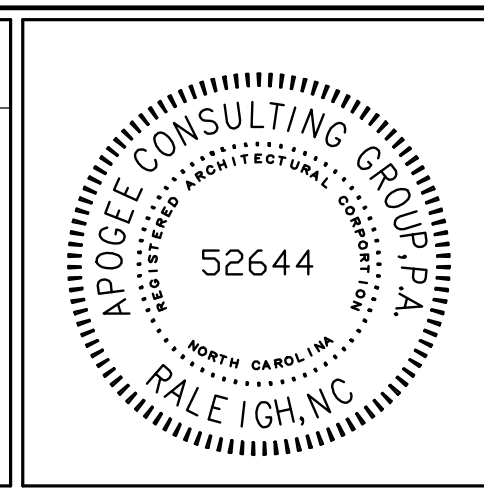
**1C MEN'S RESTROOM C1-63 - SOUTH**  
 Scale: 1/2" = 1'-0"



**1 ENLARGED MEN'S RESTROOM - C1-63**  
 Scale: 1/2" = 1'-0"



**CONSULTANTS:**



**PROJECT MANAGER**  
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**Apogee Consulting Group, P.A.**  
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Office of Construction and Facilities Management  
**VA** U.S. Department of Veterans Affairs

Drawing Title  
**ENLARGED TOILET PLANS AND ELEVATIONS**  
 Location  
**WILKES-BARRE VA MEDICAL CENTER**  
 1111 EAST END BLVD  
 WILKES-BARRE, PA 18711

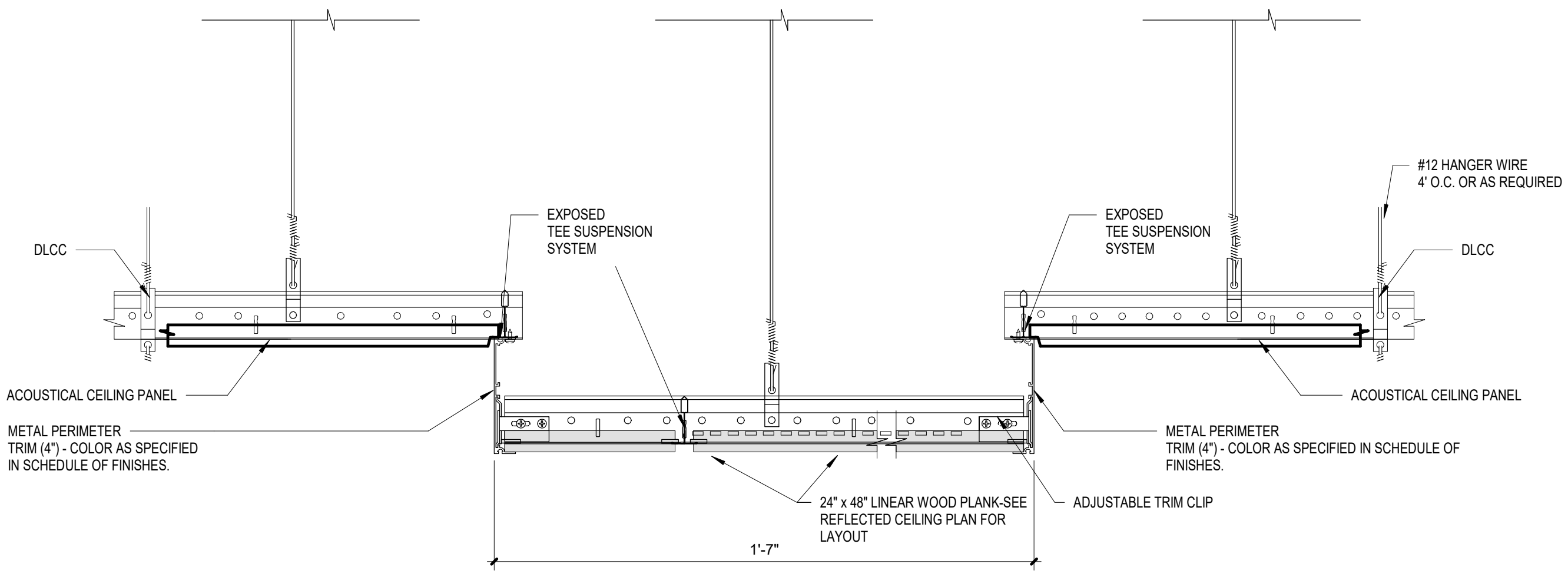
Project Title  
**EXPAND MENTAL HEALTH CLINIC**  
 Approved  
 Date FEBRUARY 21, 2024  
 Checked ELI  
 Drawn JAM/ENP

VA PROJECT NUMBER  
 693-352  
 Building Number  
 # 1  
 Drawing Number  
**1-432**  
 Dwg 32 of 37

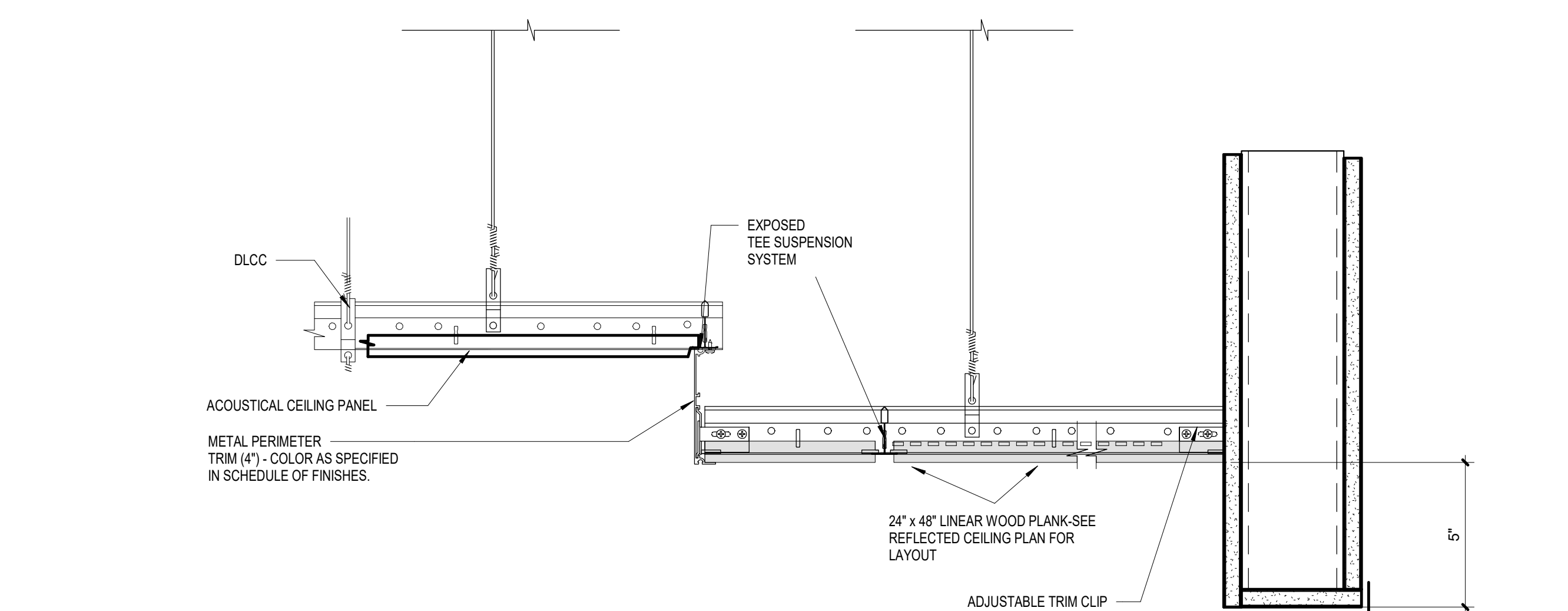
#	Revisions:	Date



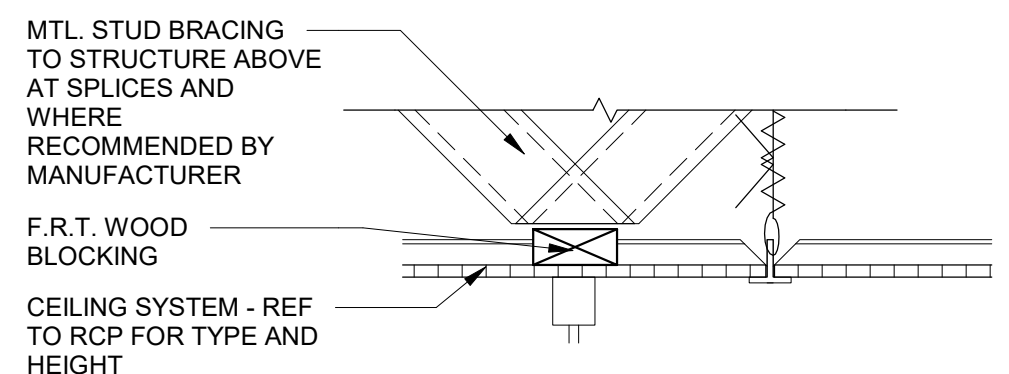




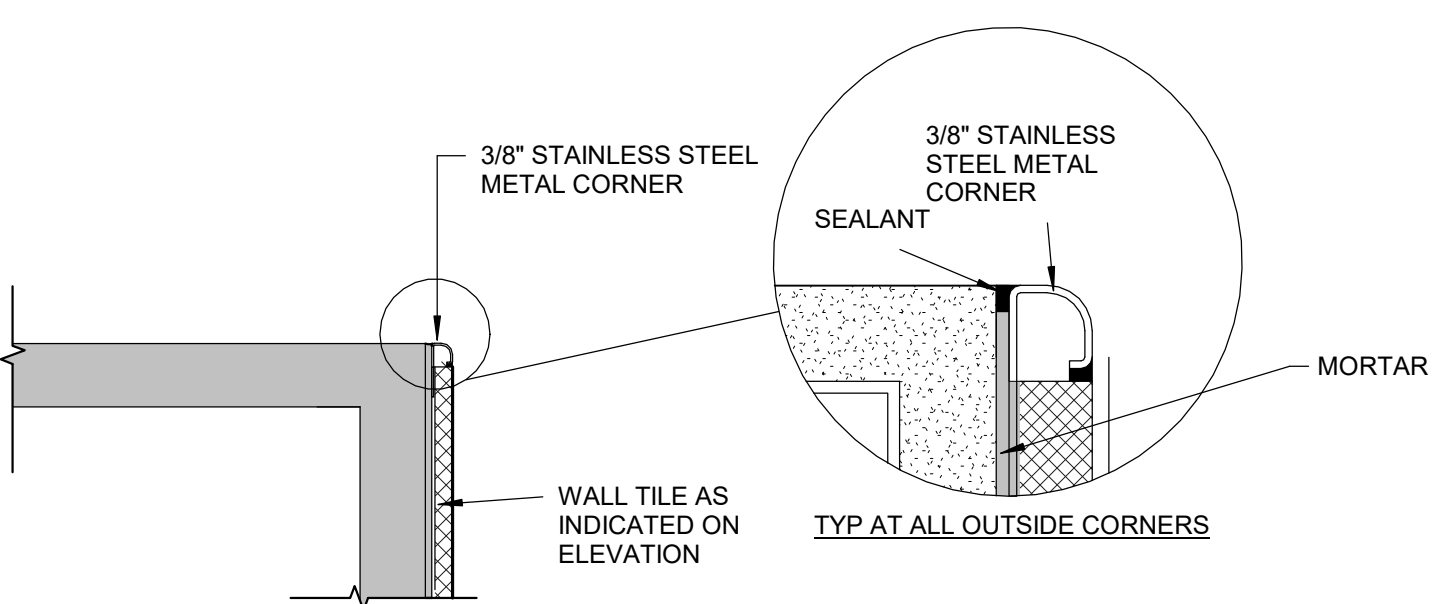
**11 CEILING METAL TRIM - WOOD CEILING SECTION**  
Scale: 3" = 1'-0"



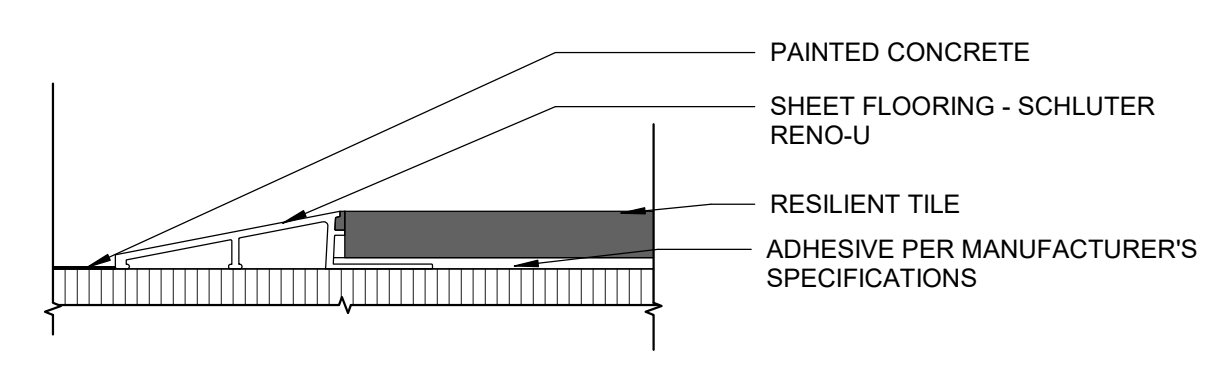
**12 CEILING METAL TRIM - WOOD CEILING AND BULKHEAD SECTION**  
Scale: 3" = 1'-0"



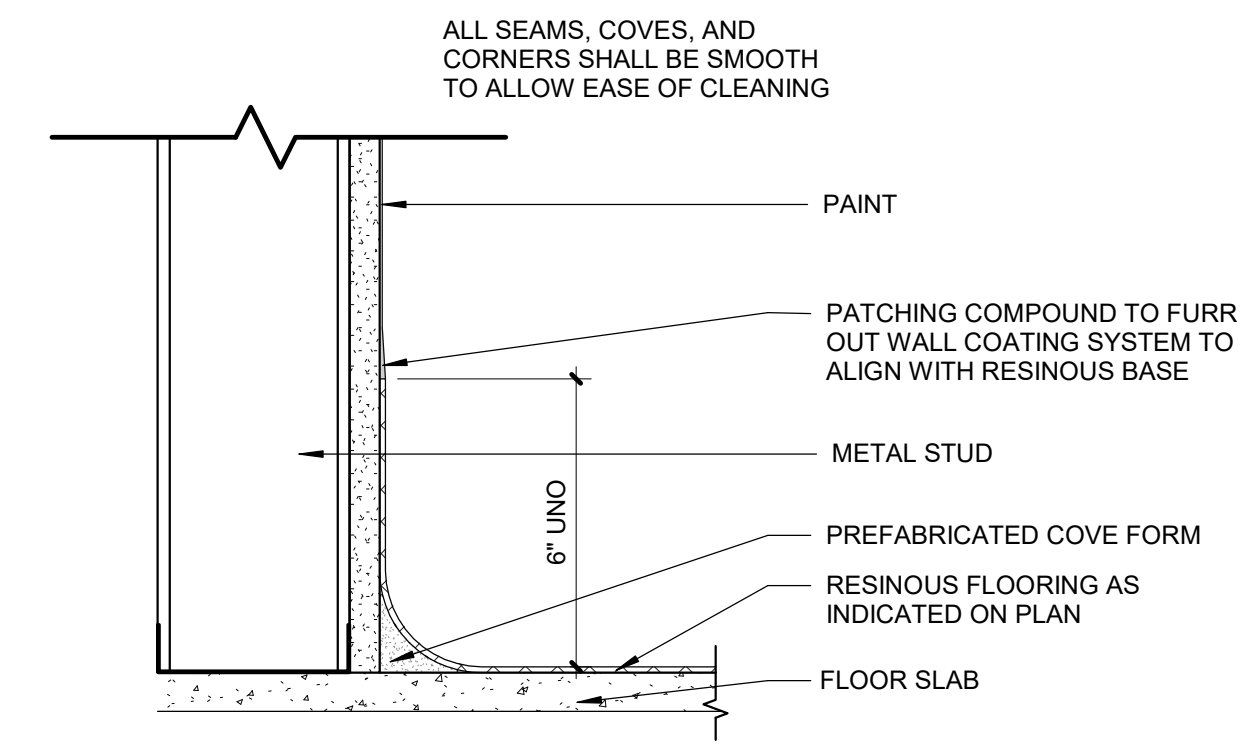
**13 CUBICLE CURTAIN DETAIL**  
Scale: 1 1/2" = 1'-0"



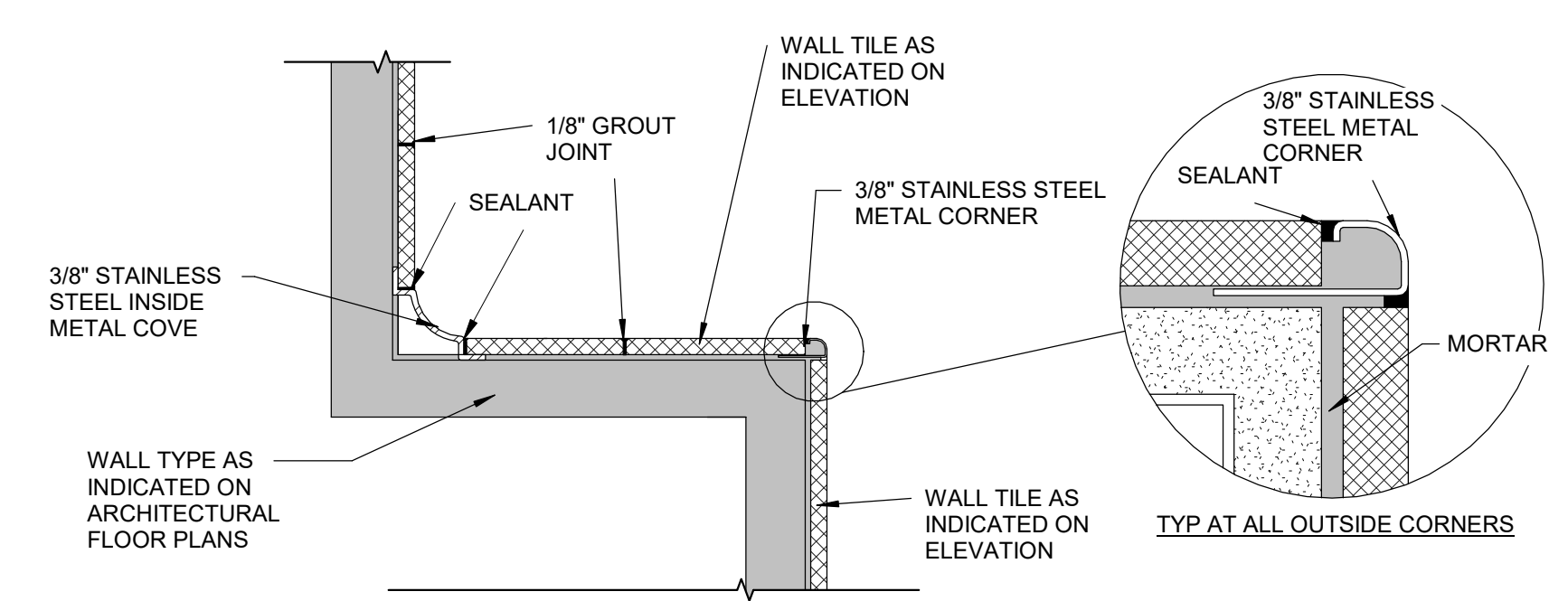
**14 METAL TRANSITION - WALL TILE ROUND CORNER AT DOOR JAMB**  
Scale: 3" = 1'-0"



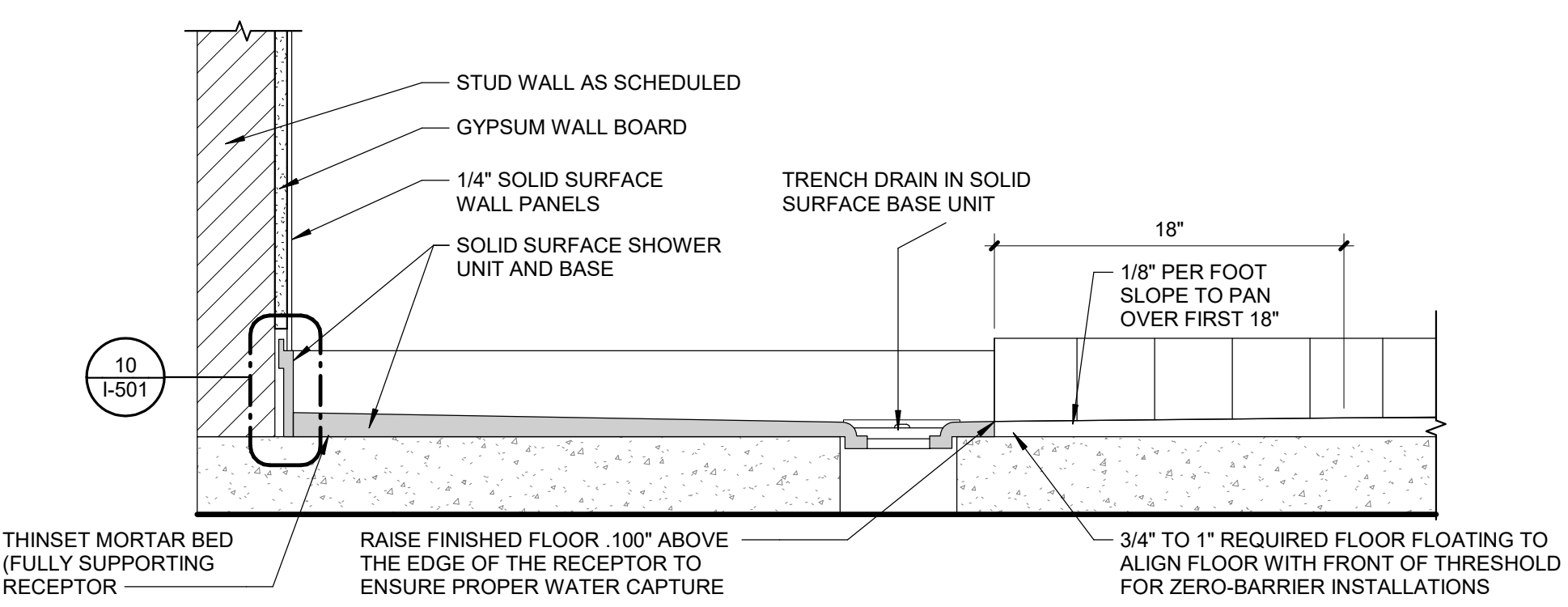
**6 LUXURY VINYL TILE TO CONCRETE TRANSITION**  
Scale: 1" = 1'-0"



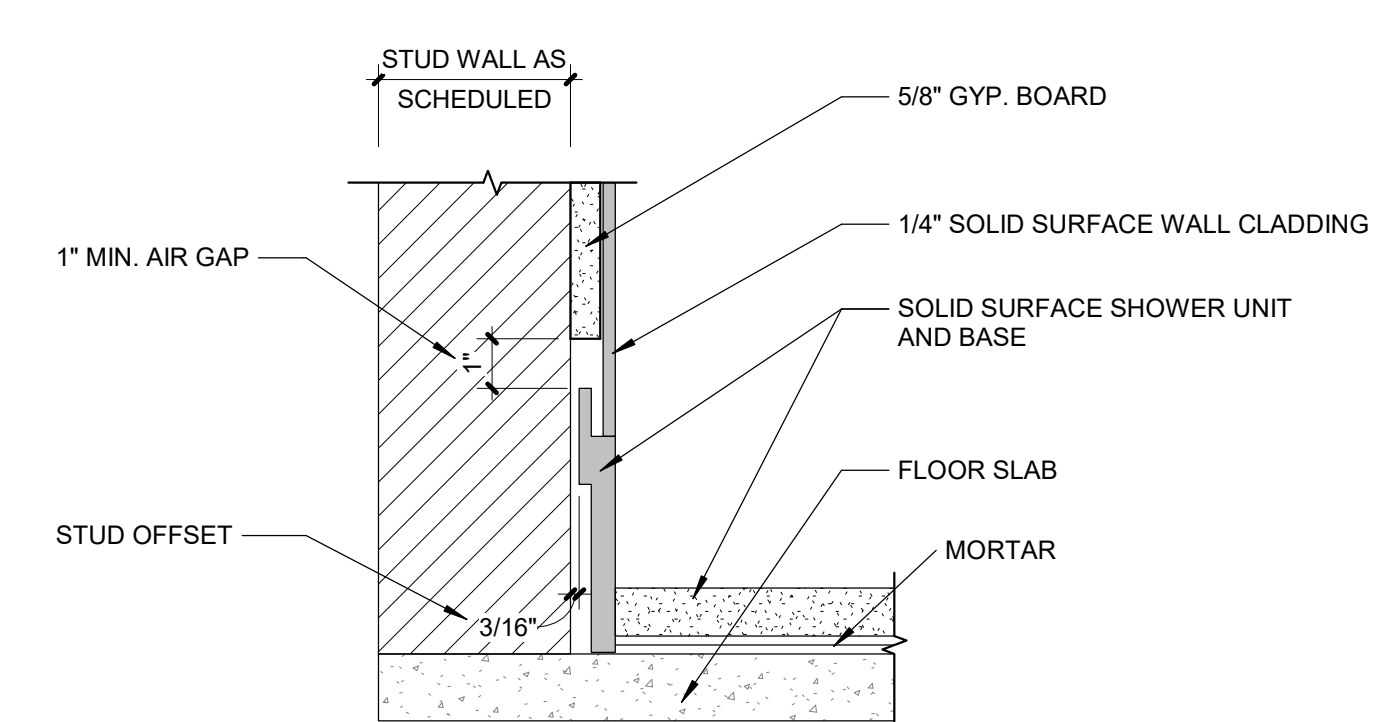
**7 RESINOUS COVE BASE**  
Scale: 3" = 1'-0"



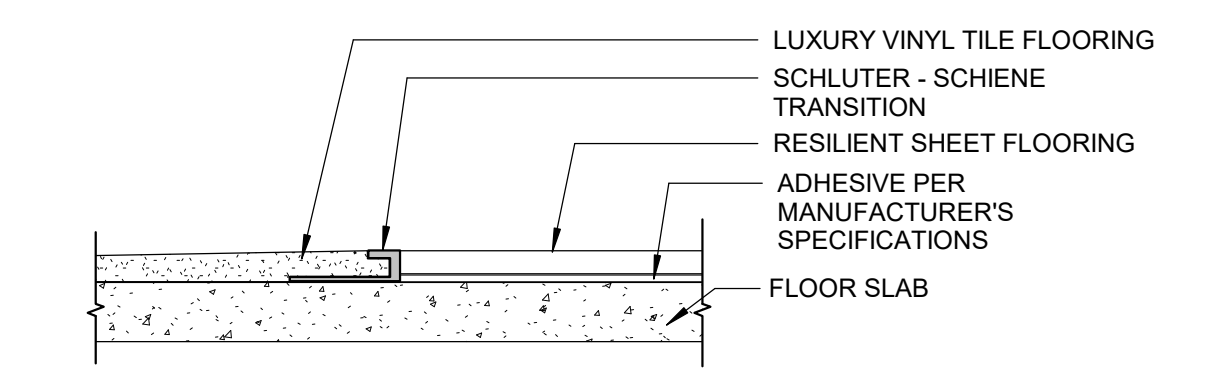
**8 METAL TRANSITION - WALL TILE ROUND CORNER**  
Scale: 3" = 1'-0"



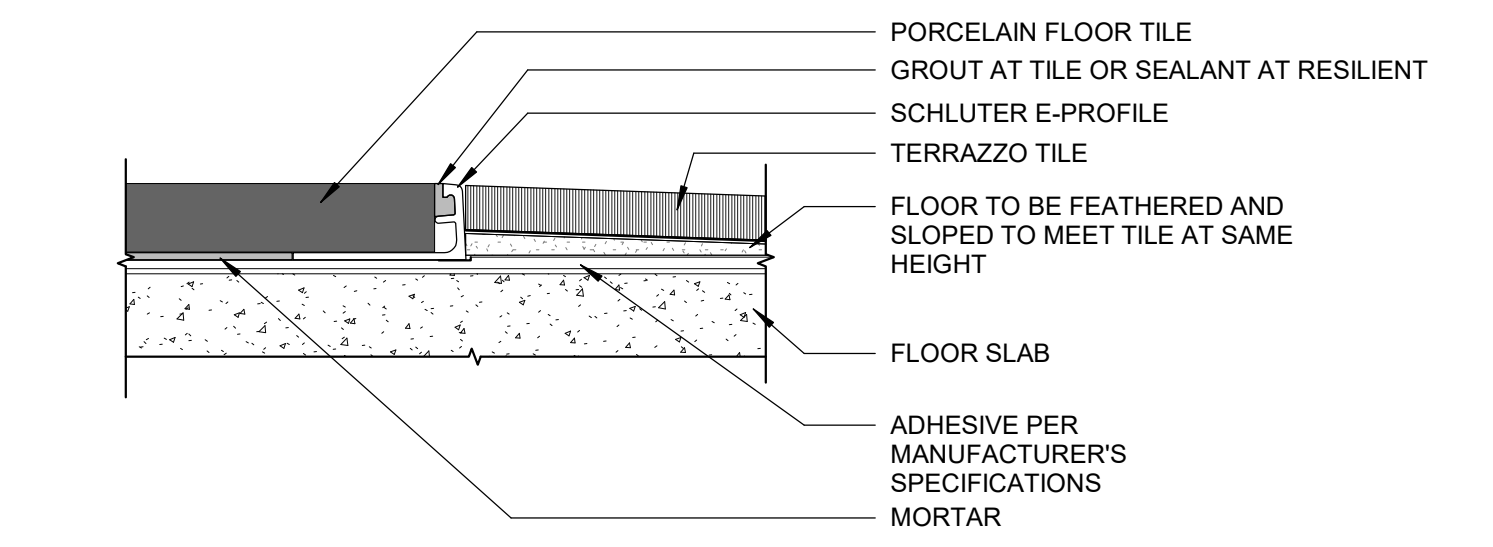
**9 SOLID SURFACE SHOWER TRENCH ASSEMBLY DETAIL**  
Scale: 1 1/2" = 1'-0"



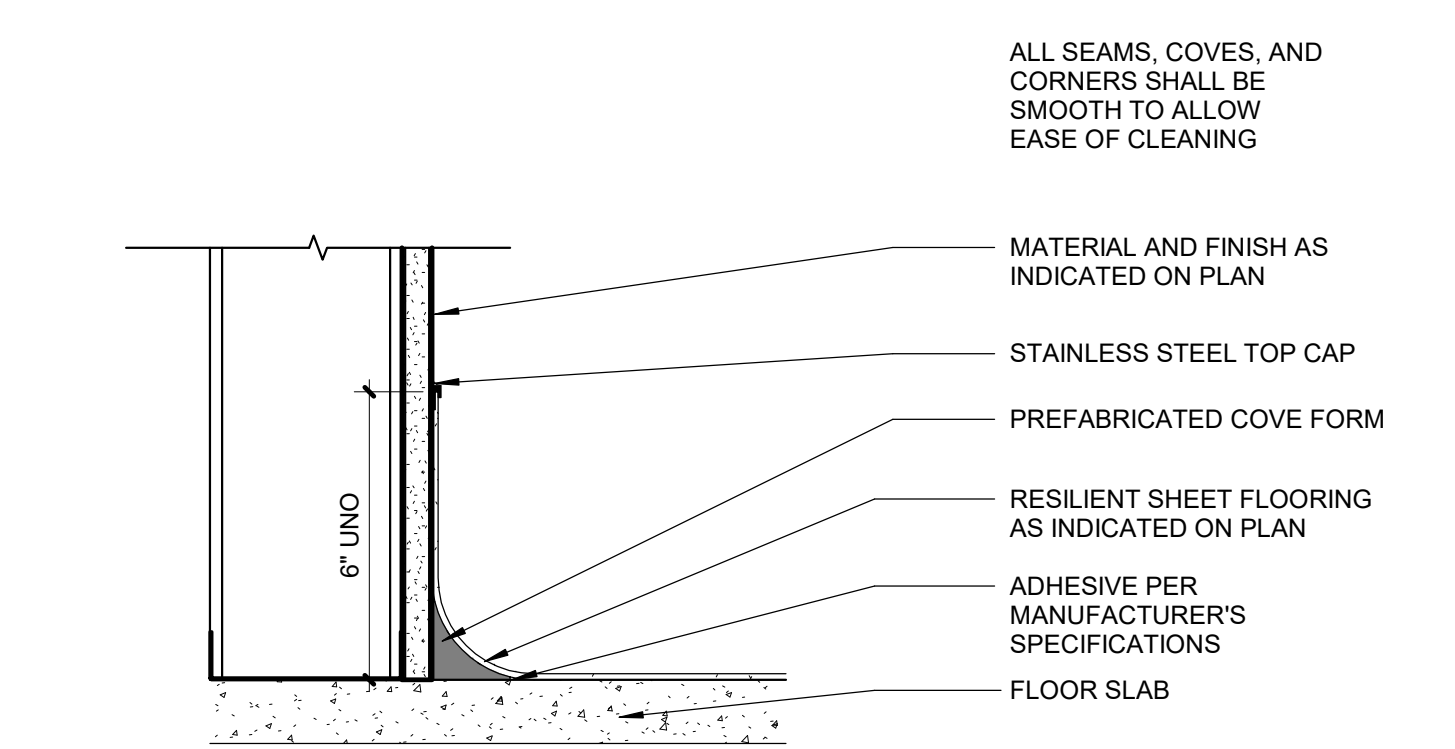
**10 SOLID SURFACE SHOWER WALL CLADDING BASE DETAIL**  
Scale: 3" = 1'-0"



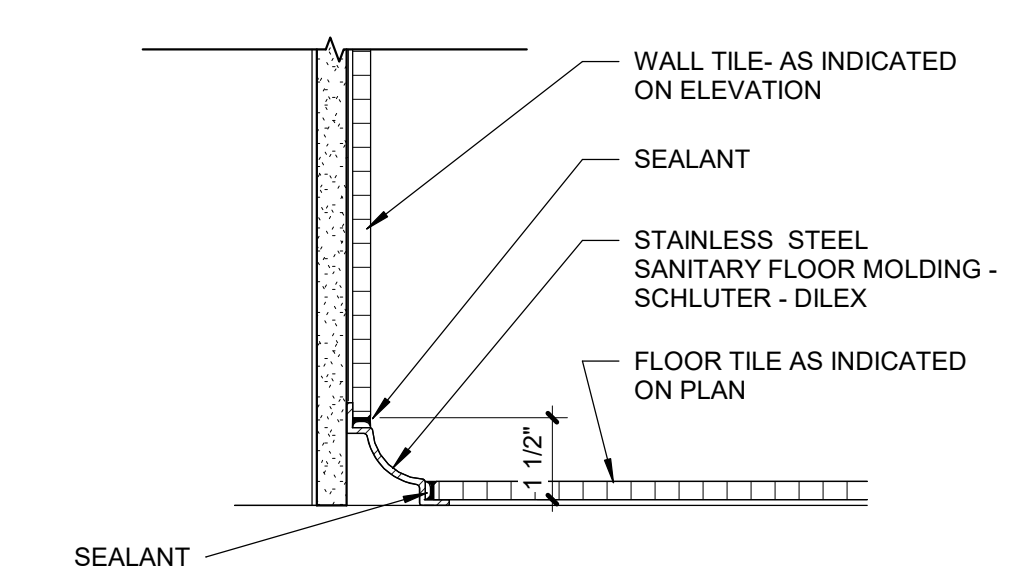
**1 METAL TRANSITION - LUXURY VINYL TILE TO RESINOUS FLOORING OR RESILIENT FLOORING**  
Scale: 1" = 1'-0"



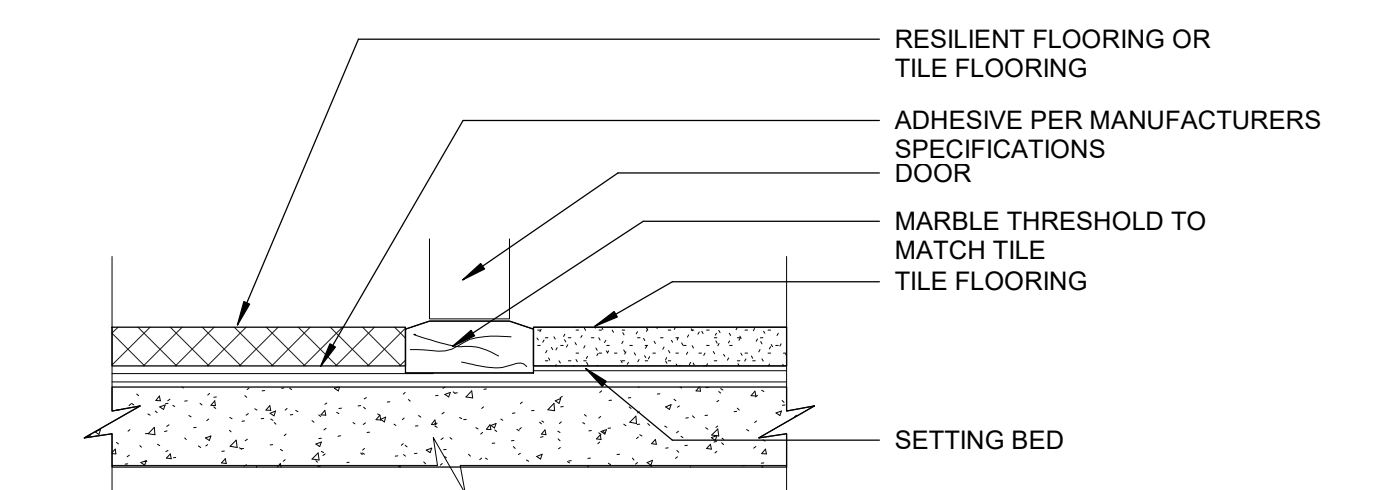
**2 METAL TRANSITION - TERRAZZO TILE TO PORCELAIN TILE OR RESILIENT FLOORING**  
Scale: 1" = 1'-0"



**3 RESILIENT SHEET COVE BASE**  
Scale: 3" = 1'-0"



**4 METAL TRANSITION - COVE DETAIL FOR WALL AND FLOOR TILE**  
Scale: 3" = 1'-0"



**5 THRESHOLD DETAIL BETWEEN TILE AND RESILIENT FLOORING**  
Scale: 1" = 1'-0"

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<p><b>CONSULTANTS:</b></p>				<p><b>PROJECT MANAGER</b> Headquarters: <b>Apogee Consulting Group, P.A.</b> 1151 Kildaire Farm Road, Suite 120 Cary, North Carolina 27511 www.acg-pa.com 919-858-7420</p>	<p>ACG Project Number 20-083</p>	<p>Office of Construction and Facilities Management</p>	<p>Drawing Title <b>INTERIOR DETAILS</b></p>	<p>Project Title <b>EXPAND MENTAL HEALTH CLINIC</b></p>	<p>VA PROJECT NUMBER 693-352</p>		
<p># Revisions: _____ Date _____</p>		<p>52644</p>		<p>1151 Kildaire Farm Road, Suite 120 Cary, North Carolina 27511</p>		<p>U.S. Department of Veterans Affairs</p>	<p>Location <b>WILKES-BARRE VA MEDICAL CENTER</b> 1111 EAST END BLVD WILKES-BARRE, PA 18711</p>	<p>Approved _____</p>	<p>Building Number # 1</p>		
<p># Revisions: _____ Date _____</p>		<p>52644</p>		<p>1151 Kildaire Farm Road, Suite 120 Cary, North Carolina 27511</p>		<p>U.S. Department of Veterans Affairs</p>	<p>Location <b>WILKES-BARRE VA MEDICAL CENTER</b> 1111 EAST END BLVD WILKES-BARRE, PA 18711</p>	<p>Date FEBRUARY 21, 2024</p>	<p>Checked ELI</p>	<p>Drawn JAM/ENP</p>	<p>Drawing Number <b>1-501</b></p>
<p># Revisions: _____ Date _____</p>		<p>52644</p>		<p>1151 Kildaire Farm Road, Suite 120 Cary, North Carolina 27511</p>		<p>U.S. Department of Veterans Affairs</p>	<p>Location <b>WILKES-BARRE VA MEDICAL CENTER</b> 1111 EAST END BLVD WILKES-BARRE, PA 18711</p>	<p>Date FEBRUARY 21, 2024</p>	<p>Checked ELI</p>	<p>Drawn JAM/ENP</p>	<p>Drawing Number <b>1-501</b></p>



EQUIPMENT AND FURNITURE SCHEDULE - VV (VA FURNISHED AND VA INSTALLED)						
JSN NUMBER	QUANTITY	JSN DESCRIPTION	JSN FURNITURE/INSTALL	DATA	POWER	BLOCKING REQUIRED
A1014	10	Telephone, Wall Mounted, 1 Line, With Speaker	VV	Yes	No	No
A1015	59	Telephone, Desk	VV	Yes	No	No
A1132	5	Rail, Accessory Mounting, Length As Required	VV	No	No	Yes
A4995	3	Diaper Changing Table	VV	No	No	Yes
A5025	1	Bench, Locker Room, Portable	VV	No	No	No
A5075	22	Dispenser, Soap, Disposable	VV	No	No	No
A5077	13	Hand Sanitizer Dispenser	VV	No	No	No
A5081	2	Dispenser, Paper Towel, SS, Surface Mounted-Anti Ligature	VV	No	No	Yes
A5082	21	Dispenser, Paper Towel, SS, Surface Mounted-Sensor	VV	No	No	Yes
A5090	10	Disposal, Sanitary Napkin, SS, Surface Mounted	VV	No	No	Yes
A5106	8	Disposal Sharps Unit	VV	No	No	No
A5107	10	Dispenser, Glove, Surgical/Examination, Wall Mntd	VV	No	No	Yes
A5200	10	Dispenser, Toilet Tissue, SS, 2-Roll, Surface Mntd	VV	No	No	Yes
A6046	7	Artwork, Decorative, With Frame	VV	No	No	Yes
D3320	1	Exam Chair, Bariatric	VV	No	Yes	No
E0042	3	Workcenter	VV	Yes	Yes	No
E0048	1	Workcenter	VV	Yes	Yes	No
E0063M1	1	Workstation, L-Shaped w/Peninsula and Wardrobe, Wall Mtd, 72x60	VV	No	Yes	No
E0078	36	Workstation	VV	Yes	Yes	No
E0084	4	Workstation, Corner Work Surface, Unequal, Free std, 72x72	VV	Yes	Yes	No
E0117	4	Workstation, Straight, Free Standing, 48" W	VV	No	Yes	No
E0948	2	Cart, General Storage, Mobile, 42"H x 32"W x22"D	VV	No	No	No
F0205	78	Chair w/Side Arms	VV	No	No	No
F0206	3	Chair, Bariatric, w/Arms	VV	No	No	No
F0210	50	Chair, Side, Without Arms	VV	No	No	No
F0225	14	Chair, Dining	VV	No	No	No
F0265	2	Chair, Recliner	VV	No	No	No
F0275	61	Chair, Swivel Task	VV	No	No	No
F0280	28	Chair, Swivel, Low Back	VV	No	No	No
F0295	14	Chair, Stacking	VV	No	No	No
F0340	3	Stool, Self Adjusting	VV	No	No	No
F0340M	4	Stool, Self Adjusting w/Back	VV	No	No	No
F0355	1	Footstool, Straight	VV	No	No	No
F0404	13	Pedestal File, Mobile	VV	No	No	No
F0405	1	Cabinet, Filing, Full Height, 4-5 Drawer	VV	No	No	No
F0420	4	Filing Cabinet, Lateral, Half Height	VV	No	No	No
F0500	1	Janitor's Cart	VV	No	No	No
F0600	1	Credenza, Executive, Wood	VV	No	No	No
F0740	6	Table, Occasional, Lamp	VV	No	No	No
F0795	4	Table, Dining, Square	VV	No	No	No
F0795M	3	Table, Dining, Round	VV	No	No	No
F0865	7	Table, Adjustable Height, 60x24	VV	No	Yes	No
F2000	60	Basket, Wastebasket, Rectangular, Metal	VV	No	No	No
F2010	8	Basket, Wastepaper, Step-On	VV	No	No	No
F2015	5	Basket, Wastebasket, Metal/Plastic, 2 Swinging Doors	VV	No	No	No
F2225	1	Projector, Ceiling Mounted	VV	Yes	Yes	Yes
F2405	1	Holding Bench-Floor mounted	VV	No	No	No
F2540	3	Shredder, Paper, Security	VV	No	Yes	No
F3200	53	Clock, Battery, 12" Diameter	VV	No	No	No
K4660	1	Oven, Microwave, Heavy Duty, 1000 Watts	VV	No	Yes	No
M0500	1	Monitor, Television	VV	No	Yes	No
M0515	9	Monitor, Television	VV	No	Yes	No
M1801	7	Computer, Microprocessing, w/ Dual Flat Panel Monitors	VV	Yes	Yes	No
M1801M	59	Computer, Microprocessing, w/Dual Flat Panel Monitor	VV	Yes	Yes	No
M1802	2	24" MONITOR	VV	No	Yes	Yes
M1803	3	Wall Mounted Computer Workstation	VV	Yes	Yes	No
M1810	2	Printer, Copier, Free Standing	VV	Yes	Yes	No
M1840M	1	Standing Multifunctional printer, fax, scanner and copier	VV	Yes	Yes	Yes
M2015M	1	Cabinet, Storage, Flammable, Wall Mounted	VV	No	No	Yes
M2055	2	Adjustable Shelving	VV	No	No	No
M3150	1	Medication Distribution System	VV	Yes	Yes	No
M4045	1	Scale, Wheelchair	VV	No	Yes	No
M4075	4	Folding Wheelchair	VV	No	No	No
M4100	5	Sphygmomanometer	VV	No	No	No
M4200	5	Otoscope/Ophthalmoscope	VV	No	Yes	No
M7802	1	Television	VV	No	Yes	No
M9025	1	Exam Table	VV	No	Yes	No
M9066	3	Table, Examination, Treatment, Electro-Hydraulic	VV	No	Yes	No
PT023	1	Table, Adjustable Height, 24"x84"	VV	No	Yes	No
PT091	14	Table, Adjustable Height, 24"x60"	VV	No	Yes	No
R6200	1	Refrigerator	VV	No	Yes	No
R7250	3	Refrigerator & Freezer	VV	No	Yes	No
U0007	7	Cubicle Panel System- 3 walls with connectors	VV	Yes	Yes	No
U0007A	9	Cubicle Panel System- 3 walls with connectors	VV	Yes	Yes	No
U0012	1	Reception Desk, Curved	VV	No	No	No
U0016	3	Evidence Lockers-10 Openings	VV	No	No	Yes
U0017	1	Locker Weapons Rack 42"W	VV	No	No	Yes
U00017	1	Smart Board	VV	Yes	Yes	Yes
U0018	1	Locker Weapons Rack- 22" x 16" x 61"	VV	No	No	Yes
U0020	4	Dispenser, Tampon, Non-Coin Operated	VV	No	No	Yes
U0037	1	Transcranial Magnetic Stimulator	VV	Yes	Yes	No
VV470	2	Wet_amp_Dry Vacuum Cleaner Numatic	VV	No	Yes	No

EQUIPMENT AND FURNITURE SCHEDULE - CC (CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED)						
JSN NUMBER	QUANTITY	JSN DESCRIPTION	JSN FURNITURE/INSTALL	DATA	POWER	BLOCKING REQUIRED
A1030	13	2 Tier, Z - Locker, 72"H	CC	No	No	Yes
A1066	5	Mirror, Float Glass	CC	No	No	Yes
A1067	5	Mirror, Float Glass, ADA Accessible	CC	No	No	Yes
A1080	5	Mirror, Posture, Wall Mounted	CC	No	No	Yes
A1086	2	Mirror, SS, With SS Frame, 36 x18 -Anti Ligature	CC	No	No	Yes
A5030	2	Bench, Stall, Shower, Built In	CC	No	No	Yes
A5109	9	Grab Bars with Vertical	CC	No	No	Yes
A5109M	2	Grab Bars with Vertical-Anti-Ligature	CC	No	No	Yes
A5110E	4	42" Grab Bar, 1-1/4" Dia., SS, 2 Wall	CC	No	No	Yes
A5135	2	Shelf, Utility W/ Mop/Broom Holders, SS, Surface Mntd	CC	No	No	Yes
A5140	9	Hook, Garment, Double, SS, Wall Mounted- Anti Ligature	CC	No	No	Yes
A5145	114	Hook, Garment, Double, SS, Wall Mounted	CC	No	No	Yes
A5170	3	Shower Rod & Curtain	CC	No	No	Yes
A5180Ma	7	Track, Cubicle, Surface Mounted, With Curtain, Curved	CC	No	No	No
A5196	2	Recess Anti Ligature Toilet Paper Dispenser	CC	No	No	Yes
A5205	1	Towel Bar	CC	No	No	Yes
F3050	49	24"H X 36"W Whiteboard, Dry Erase	CC	No	No	Yes
F3050M	1	4'-0"H X 12'-0"W Whiteboard, Dry Erase	CC	No	No	Yes
U0038	2	Surface Mounted Gun Locker-4	CC	No	No	Yes
U0038M	1	Surface Mounted Gun Locker-2	CC	No	No	Yes
U0039	3	Recessed Gun Lockers	CC	No	No	Yes
U0040	28	Personal Storage Locker	CC	No	No	Yes

EQUIPMENT AND FURNITURE SCHEDULE - VC (VA FURNISHED AND CONTRACTOR INSTALLED)						
JSN NUMBER	QUANTITY	JSN DESCRIPTION	JSN FURNITURE/INSTALL	DATA	POWER	BLOCKING REQUIRED
A5210	9	Adjustable TV Bracket Arm	VC	No	No	Yes

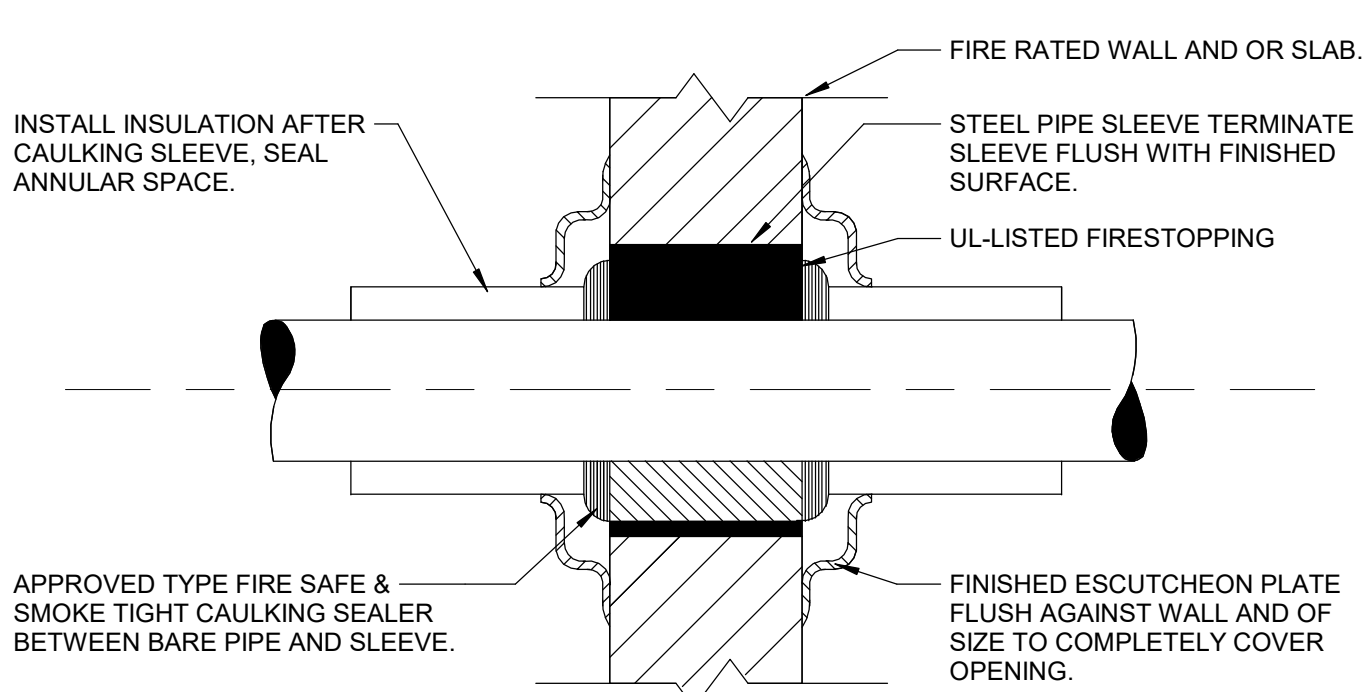
FIRST FLOOR EQUIPMENT AND FURNITURE SCHEDULE												
JSN NUMBER	QUANTITY	JSN DESCRIPTION	JSN FURNITURE/INSTALL	DATA	POWER	PLUMBING	BLOCKING REQUIRED					
C1-62												
HAC												
A5075	1	Dispenser, Soap, Disposable	VV	No	No	No	No					
A5077	1	Hand Sanitizer Dispenser	VV	No	No	No	No					
A5082	1	Dispenser, Paper Towel, SS, Surface Mounted-Sensor	VV	No	No	No	Yes					
A5107	1	Dispenser, Glove, Surgical/Examination, Wall Mntd	VV	No	No	No	Yes					
A5135	1	Shelf, Utility W/ Mop/Broom Holders, SS, Surface Mntd	CC	No	No	No	Yes					
VV470	1	Wet_amp_Dry Vacuum Cleaner Numatic	VV	No	Yes	No	No					
C1-63												
MEN'S RESTROOM												
A1066	2	Mirror, Float Glass	CC	No	No	No	Yes					
A1080	1	Mirror, Posture, Wall Mounted	CC	No	No	No	Yes					
A4995	1	Diaper Changing Table	VV	No	No	No	Yes					
A5075	1	Dispenser, Soap, Disposable	VV	No	No	No	No					
A5082	2	Dispenser, Paper Towel, SS, Surface Mounted-Sensor	VV	No	No	No	Yes					
A5090	1	Disposal, Sanitary Napkin, SS, Surface Mounted	VV	No	No	No	Yes					
A5109	1	Grab Bars with Vertical	CC	No	No	No	Yes					
A5200	1	Dispenser, Toilet Tissue, SS, 2-Roll, Surface Mntd	VV	No	No	No	Yes					
F2015	1	Basket, Wastebasket, Metal/Plastic, 2 Swinging Doors	VV	No	No	No	No					
C1-64												
WOMEN'S RESTROOM												
A1066	3	Mirror, Float Glass	CC	No	No	No	Yes					
A1080	1	Mirror, Posture, Wall Mounted	CC	No	No	No	Yes					
A4995	1	Diaper Changing Table	VV	No	No	No	Yes					
A5075	2	Dispenser, Soap, Disposable	VV	No	No	No	No					
A5082	2	Dispenser, Paper Towel, SS, Surface Mounted-Sensor	VV	No	No	No	Yes					
A5090	4	Disposal, Sanitary Napkin, SS, Surface Mounted	VV	No	No	No	Yes					
A5109	1	Grab Bars with Vertical	CC	No	No	No	Yes					
A5200	4	Dispenser, Toilet Tissue, SS, 2-Roll, Surface Mntd	VV	No	No	No	Yes					
F2015	1	Basket, Wastebasket, Metal/Plastic, 2 Swinging Doors	VV	No	No	No	No					
C1-65												
GROUP MEETING												
A5145	1	Hook, Garment, Double, SS, Wall Mounted	CC	No	No	No	Yes					
E0042	2	Workcenter	VV	Yes	Yes	No	No					
F0280	20	Chair, Swivel, Low Back	VV	No	No	No	No					
F2000	1	Basket, Wastebasket, Rectangular, Metal	VV	No	No	No	No					
F3200	1	Clock, Battery, 12" Diameter	VV	No	No	No	No					
M0515	1	Monitor, Television	VV	No	Yes	No	No					
M1801M	2	Computer, Microprocessing, w/Dual Flat Panel Monitor	VV	Yes	Yes	No	No					
M7802	1	Television	VV	No	Yes	No	No					
PT091	10	Table, Adjustable Height, 24"x60"	VV	No	Yes	No	No					
U0017	1	Smart Board	VV	Yes	Yes	No	Yes					
C1-100												
MH WAITING												
A5210	1	Adjustable TV Bracket Arm	VC	No	No	No	Yes					
A6046	4	Artwork, Decorative, With Frame	VV	No	No	No	Yes					
F0205	13	Chair w/Side Arms	VV	No	No	No	No					
F0206	2	Chair, Bariatric, w/Arms	VV	No	No	No	No					
F0210	4	Chair, Side, Without Arms	VV	No	No	No	No					
F0740	4	Table, Occasional, Lamp	VV	No	No	No	No					
F2000	1	Basket, Wastebasket, Rectangular, Metal	VV	No	No	No	No					
F3200	1	Clock, Battery, 12" Diameter	VV	No	No	No	No					
M0515	1	Monitor, Television	VV	No	Yes	No	No					
M4075	3	Folding Wheelchair	VV	No	No	No	No					
C1-101												
TELE-HEALTH												
A1014	1	Telephone, Wall Mounted, 1 Line, With Speaker	VV	Yes	No	No	No					
A1132	1	Rail, Accessory Mounting, Length As Required	VV	No	No	No	Yes					
A5075	1	Dispenser, Soap, Disposable	VV	No	No	No	No					
A5077	1	Hand Sanitizer Dispenser	VV	No	No	No	No					
A5082	1	Dispenser, Paper Towel, SS, Surface Mounted-Sensor	VV	No	No	No	Yes					
A5106	1	Disposal Sharps Unit	VV	No	No	No	No					
A5107	1	Dispenser, Glove, Surgical/Examination, Wall Mntd	VV	No	No	No	Yes					
A5145	2	Hook, Garment, Double, SS, Wall Mounted	CC	No	No	No	Yes					
A5180Ma	1	Track, Cubicle, Surface Mounted, With Curtain, Curved	CC	No	No	No	No					
A5210	1	Adjustable TV Bracket Arm	VC	No	No	No	Yes					
E0948	1	Cart, General Storage, Mobile, 42"H x 32"W x22"D	VV	No	No	No	No					
F0205	1	Chair w/Side Arms	VV	No	No	No	No					
F0265	1	Chair, Recliner	VV	No	No	No	No					
F0340	1	Stool, Self Adjusting	VV	No	No	No	No					
F2010	1	Basket, Wastepaper, Step-On	VV	No	No	No	No					
F3050	1	24"H X 36"W Whiteboard, Dry Erase	CC	No	No	No	Yes					
F3200	1	Clock, Battery, 12" Diameter	VV	No	No	No	No					
M0515	1	Monitor, Television	VV	No	Yes	No	No					
M4100	1	Sphygmomanometer	VV	No	No	No	No					
M4200	1	Otoscope/Ophthalmoscope	VV	No	Yes	No	No					
C1-102												
NURSE WORK AREA												
A1015	3	Telephone, Desk	VV	Yes	No	No	No					
E0084	3	Workstation, Corner Work Surface, Unequal, Free std, 72x72	VV	Yes	Yes	No	No					
F0275	3	Chair, Swivel Task	VV	No	No	No	No					
F2000	3	Basket, Wastebasket, Rectangular, Metal	VV	No	No	No	No					
M1801	3	Computer, Microprocessing, w/ Dual Flat Panel Monitors	VV	Yes	Yes	No	No					
C1-103												
TELE-HEALTH												
A1014	1	Telephone, Wall Mounted, 1 Line, With Speaker	VV	Yes	No	No	No					
A1132	1	Rail, Accessory Mounting, Length As Required	VV	No	No	No	Yes					
A5075	1	Dispenser, Soap, Disposable	VV	No	No	No	No					
A5077	1	Hand Sanitizer Dispenser	VV	No	No	No	No					
A5082	1	Dispenser, Paper Towel, SS, Surface Mounted-Sensor	VV	No	No	No	Yes					
A5106	1	Disposal Sharps Unit	VV	No	No	No	No					
A5107	1	Dispenser, Glove, Surgical/Examination, Wall Mntd	VV	No	No	No	Yes					
A5145	2	Hook, Garment, Double, SS, Wall Mounted	CC	No	No	No	Yes					
A5180Ma	1	Track, Cubicle, Surface Mounted, With Curtain, Curved	CC	No	No	No	No					
A5210	1	Adjustable TV Bracket Arm	VC	No	No	No	Yes					
E0948	1	Cart, General Storage, Mobile, 42"H x 32"W x22"D	VV	No	No	No	No					
F0205	1	Chair w/Side Arms	VV	No	No	No	No					
F0265	1	Chair, Recliner	VV	No	No	No	No					
F0340	1	Stool, Self Adjusting	VV	No	No	No	No					
F2010	1	Basket, Wastepaper, Step-On	VV	No	No	No	No					
F3050	1	24"H X 36"W Whiteboard, Dry Er										

FIRST FLOOR EQUIPMENT AND FURNITURE SCHEDULE							
JSN NUMBER	QUANTITY	JSN DESCRIPTION	JSN FURNITURE/INSTALL	DATA	POWER	PLUMBING	BLOCKING REQUIRED
C1-140 FAMILY CONSULT							
A1015	1	Telephone, Desk	VV	Yes	No	No	No
A5145	2	Hook, Garment, Double, SS, Wall Mounted	CC	Yes	Yes	No	Yes
E0078	1	Workstation	VV	Yes	Yes	No	No
F0205	2	Chair, w/Side Arms	VV	No	No	No	No
F0210	2	Chair, Side, Without Arms	VV	No	No	No	No
F0275	1	Chair, Swivel Task	VV	No	No	No	No
F0790M	1	Table, Dining, Square	VV	No	No	No	No
F2000	1	Basket, Wastebasket, Rectangular, Metal	VV	No	No	No	No
F3050	1	24" X 36" Whiteboard, Dry Erase	CC	No	No	No	Yes
F3200	1	Clock, Battery, 12" Diameter	VV	No	No	No	No
M1801M	1	Computer, Microprocessing, w/Dual Flat Panel Monitor	VV	Yes	Yes	No	No
C1-142 OFFICE CONSULT							
A1015	1	Telephone, Desk	VV	Yes	No	No	No
A5145	2	Hook, Garment, Double, SS, Wall Mounted	CC	No	No	No	Yes
E0078	1	Workstation	VV	Yes	Yes	No	No
F0205	1	Chair, w/Side Arms	VV	No	No	No	No
F0210	1	Chair, Side, Without Arms	VV	No	No	No	No
F0275	1	Chair, Swivel Task	VV	No	No	No	No
F2000	1	Basket, Wastebasket, Rectangular, Metal	VV	No	No	No	No
F3050	1	24" X 36" Whiteboard, Dry Erase	CC	No	No	No	Yes
F3200	1	Clock, Battery, 12" Diameter	VV	No	No	No	No
M1801M	1	Computer, Microprocessing, w/Dual Flat Panel Monitor	VV	Yes	Yes	No	No
C1-147 PATIENT TOILET							
A1086	1	Mirror, SS, With SS Frame, 36 x18 -Anti Ligature	CC	No	No	No	Yes
A5075	1	Dispenser, Soap, Disposable	VV	No	No	No	No
A5081	1	Dispenser, Paper Towel, SS, Surface Mounted-Anti Ligature	VV	No	No	No	Yes
A5109M	1	Grab Bars with Vertical-Anti-Ligature	CC	No	No	No	Yes
A5140	1	Hook, Garment, Double, SS, Wall Mounted- Anti Ligature	CC	No	No	No	Yes
A5196	1	Recess Anti Ligature Toilet Paper Dispenser	CC	No	No	No	Yes
F2000	1	Basket, Wastebasket, Rectangular, Metal	VV	No	No	No	No
C1-148 PATIENT TOILET							
A1086	1	Mirror, SS, With SS Frame, 36 x18 -Anti Ligature	CC	No	No	No	Yes
A5075	1	Dispenser, Soap, Disposable	VV	No	No	No	No
A5081	1	Dispenser, Paper Towel, SS, Surface Mounted-Anti Ligature	VV	No	No	No	Yes
A5109M	1	Grab Bars with Vertical-Anti-Ligature	CC	No	No	No	Yes
A5140	1	Hook, Garment, Double, SS, Wall Mounted- Anti Ligature	CC	No	No	No	Yes
A5196	1	Recess Anti Ligature Toilet Paper Dispenser	CC	No	No	No	Yes
F2000	1	Basket, Wastebasket, Rectangular, Metal	VV	No	No	No	No
C1-154 PROCEDURE/ TMS							
A1014	1	Telephone, Wall Mounted, 1 Line, With Speaker	VV	Yes	No	No	No
A5075	1	Dispenser, Soap, Disposable	VV	No	No	No	No
A5077	1	Hand Sanitizer Dispenser	VV	No	No	No	No
A5082	1	Dispenser, Paper Towel, SS, Surface Mounted-Sensor	VV	No	No	No	Yes
A5106	1	Disposal Sharps Unit	VV	No	No	No	No
A5107	1	Dispenser, Glove, Surgical/Examination, Wall Mntd	VV	No	No	No	Yes
A5145	1	Hook, Garment, Double, SS, Wall Mounted	CC	No	No	No	Yes
A5180Ma	1	Track, Cubicle, Surface Mounted, With Curtain, Curved	CC	No	No	No	No
D3320	1	Exam Chair, Bariatric	VV	No	Yes	No	No
F0205	1	Chair, w/Side Arms	VV	No	No	No	No
F0340	1	Stool, Self Adjusting	VV	No	No	No	No
F0355	1	Footstool, Straight	VV	No	No	No	No
F2010	1	Basket, Wastepaper, Step-On	VV	No	No	No	No
F3200	1	Clock, Battery, 12" Diameter	VV	No	No	No	No
M1803	1	Wall Mounted Computer Workstation	VV	Yes	Yes	No	No
U0037	1	Transcranial Magnetic Stimulator	VV	Yes	Yes	No	No
C1-155 STERILE SUPPLY							
M2055	2	Adjustable Shelving	VV	No	No	No	No
C1-156 EXAMINJ NURSE OFFICE							
A1014	1	Telephone, Wall Mounted, 1 Line, With Speaker	VV	Yes	No	No	No
A5075	1	Dispenser, Soap, Disposable	VV	No	No	No	No
A5077	1	Hand Sanitizer Dispenser	VV	No	No	No	No
A5082	1	Dispenser, Paper Towel, SS, Surface Mounted-Sensor	VV	No	No	No	Yes
A5106	1	Disposal Sharps Unit	VV	No	No	No	No
A5107	1	Dispenser, Glove, Surgical/Examination, Wall Mntd	VV	No	No	No	Yes
A5145	1	Hook, Garment, Double, SS, Wall Mounted	CC	No	No	No	Yes
A5180Ma	1	Track, Cubicle, Surface Mounted, With Curtain, Curved	CC	No	No	No	No
E0117	1	Workstation, Straight, Free Standing, 48" W	VV	No	Yes	No	No
F0205	1	Chair, w/Side Arms	VV	No	No	No	No
F0340M	1	Stool, Self Adjusting w/Back	VV	No	No	No	No
F2010	1	Basket, Wastepaper, Step-On	VV	No	No	No	No
F3200	1	Clock, Battery, 12" Diameter	VV	No	No	No	No
M1801	1	Computer, Microprocessing, w/ Dual Flat Panel Monitors	VV	Yes	Yes	No	No
M0606	1	Table, Examination, Treatment, Electro-Hydraulic	VV	No	Yes	No	No
C1-157 MEDS							
A1014	1	Telephone, Wall Mounted, 1 Line, With Speaker	VV	Yes	No	No	No
A5075	1	Dispenser, Soap, Disposable	VV	No	No	No	No
A5077	1	Hand Sanitizer Dispenser	VV	No	No	No	No
A5082	1	Dispenser, Paper Towel, SS, Surface Mounted-Sensor	VV	No	No	No	Yes
A5106	1	Disposal Sharps Unit	VV	No	No	No	No
A5107	1	Dispenser, Glove, Surgical/Examination, Wall Mntd	VV	No	No	No	Yes
F2010	1	Basket, Wastepaper, Step-On	VV	Yes	Yes	No	No
M3150	1	Medication Distribution System	VV	Yes	Yes	No	No
R6200	1	Refrigerator	VV	No	Yes	No	No
C1-158 HAC							
A5075	1	Dispenser, Soap, Disposable	VV	No	No	No	No
A5077	1	Hand Sanitizer Dispenser	VV	No	No	No	No
A5082	1	Dispenser, Paper Towel, SS, Surface Mounted-Sensor	VV	No	No	No	Yes
A5107	1	Dispenser, Glove, Surgical/Examination, Wall Mntd	VV	No	No	No	Yes
A5135	1	Shelf, Utility, W/ Mop/Broom Holders, SS, Surface Mntd	CC	No	No	No	Yes
F0500	1	Janitor's Cart	VV	No	No	No	No
WV470	1	Wet, amp, Dry Vacuum Cleaner Numatic	VV	No	Yes	No	No
C1-160 STAFF LOCKERS							
A1030	13	2 Tier, 2- Locker, 72" H	CC	No	No	No	Yes
A1080	1	Mirror, Posture, Wall Mounted	CC	No	No	No	Yes
A5145	3	Hook, Garment, Double, SS, Wall Mounted	CC	No	No	No	Yes
C1-161 STAFF BREAK ROOM							
A1014	1	Telephone, Wall Mounted, 1 Line, With Speaker	VV	Yes	No	No	No
A5075	1	Dispenser, Soap, Disposable	VV	No	No	No	No
A5082	1	Dispenser, Paper Towel, SS, Surface Mounted-Sensor	VV	No	No	No	Yes
A5210	1	Adjustable TV Bracket Arm	VC	No	No	No	Yes
F0225	10	Chair, Dining	VV	No	No	No	No
F0795	3	Table, Dining, Square	VV	No	No	No	No
F2015	2	Basket, Wastebasket, Metal/Plastic, 2 Swinging Doors	VV	No	No	No	No
F3050	1	24" X 36" Whiteboard, Dry Erase	CC	No	No	No	Yes
F3200	1	Clock, Battery, 12" Diameter	VV	No	No	No	No
K4660	1	Oven, Microwave, Heavy Duty, 1000 Watts	VV	No	Yes	No	No
M0515	1	Monitor, Television	VV	No	Yes	No	No
R7250	2	Refrigerator & Freezer	VV	No	Yes	Yes	No
C1-162 MSA							
A1015	3	Telephone, Desk	VV	Yes	No	No	No
F0275	3	Chair, Swivel Task	VV	No	No	No	No
F0404	3	Pedestal File, Mobile	VV	No	No	No	No
F2000	1	Basket, Wastebasket, Rectangular, Metal	VV	No	No	No	No
F2540	1	Shredder, Paper, Security	VV	No	Yes	No	No
F3200	1	Clock, Battery, 12" Diameter	VV	No	No	No	No
M1801M	3	Computer, Microprocessing, w/Dual Flat Panel Monitor	VV	Yes	Yes	No	No
M1840M	1	Standing Multifunctional printer, fax, scanner and copier	VV	Yes	Yes	No	Yes

FIRST FLOOR EQUIPMENT AND FURNITURE SCHEDULE							
JSN NUMBER	QUANTITY	JSN DESCRIPTION	JSN FURNITURE/INSTALL	DATA	POWER	PLUMBING	BLOCKING REQUIRED
C1-163 RECEPTION							
A1015	3	Telephone, Desk	VV	Yes	No	No	No
F0275	3	Chair, Swivel Task	VV	No	No	No	No
F0404	3	Pedestal File, Mobile	VV	No	No	No	No
F2000	1	Basket, Wastebasket, Rectangular, Metal	VV	No	No	No	No
M1801M	3	Computer, Microprocessing, w/Dual Flat Panel Monitor	VV	Yes	Yes	No	No
C-102 CORRIDOR							
F0205	4	Chair, w/Side Arms	VV	No	No	No	No
M4075	1	Folding Wheelchair	VV	No	No	No	No
C-102A CORRIDOR							
M4045	1	Scale, Wheelchair	VV	No	Yes	No	No
SUITE ACCESS							
F0205	2	Chair, w/Side Arms	VV	No	No	No	No
C-104A NURSE WORK AREA(1)							
A1015	1	Telephone, Desk	VV	Yes	No	No	No
E0048	1	Workcenter	VV	Yes	Yes	No	No
F0275	1	Chair, Swivel Task	VV	No	No	No	No
M1801M	1	Computer, Microprocessing, w/Dual Flat Panel Monitor	VV	Yes	Yes	No	No

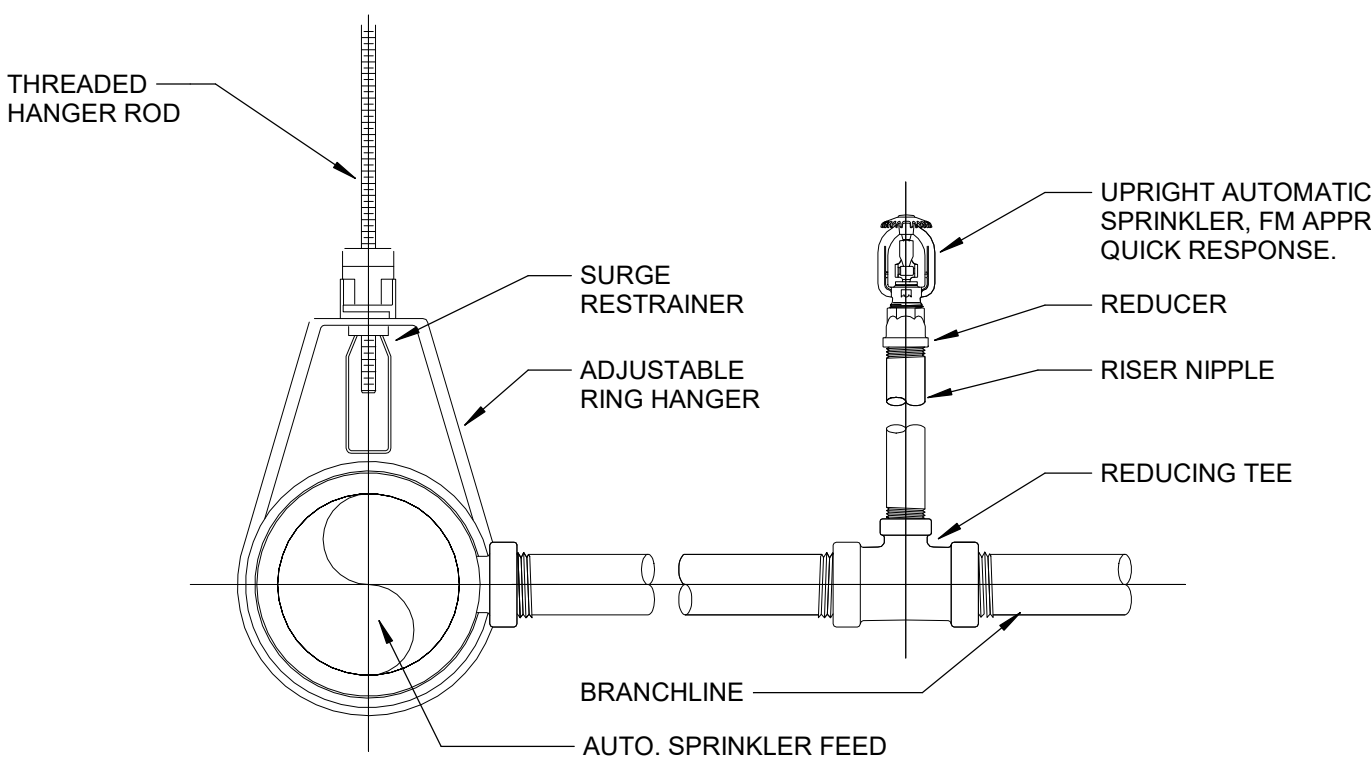
EQUIPMENT AND FURNITURE SCHEDULE 2nd Floor							
JSN NUMBER	QUANTITY	JSN DESCRIPTION	JSN FURNITURE/INSTALL	DATA	POWER	PLUMBING	BLOCKING REQUIRED
225 WAITING							
F0205	8	Chair, w/Side Arms	VV	No	No	No	No
F0210	2	Chair, Side, Without Arms	VV	No	No	No	No
F0740	2	Table, Occasional, Lamp	VV	No	No	No	No
226 TOILET							
A1067	1	Mirror, Float Glass, ADA Accessible	CC	No	No	No	Yes
A4965	1	Diaper Changing Table	VV	No	No	No	Yes
A5075	1	Dispenser, Soap, Disposable	VV	No	No	No	No
A5082	1	Dispenser, Paper Towel, SS, Surface Mounted-Sensor	VV	No	No	No	Yes
A5090	1	Disposal, Sanitary Napkin, SS, Surface Mounted	VV	No	No	No	Yes
A5109	1	Grab Bars with Vertical	CC	No	No	No	Yes
A5145	1	Hook, Garment, Double, SS, Wall Mounted	CC	No	No	No	Yes
A5200	1	Dispenser, Toilet Tissue, SS, 2-Roll, Surface Mntd	VV	No	No	No	Yes
F2000	1	Basket, Wastebasket, Rectangular, Metal	VV	No	No	No	No
U0020	1	Dispenser, Tampon, Non-Coin Operated	VV	No	No	No	Yes
RECEPTION							
A1015	1	Telephone, Desk	VV	Yes	No	No	No
E0084	1	Workstation, Corner Work Surface, Unequal, Free std, 72x72	VV	Yes	Yes	No	No
F0275	1	Chair, Swivel Task	VV	No	No	No	No
F0405	1	Cabinet, Filing, Full Height, 4-5 Drawer	VV	No	No	No	No
F2000	1	Basket, Wastebasket, Rectangular, Metal	VV	No	No	No	No
F3050	1	24" X 36" Whiteboard, Dry Erase	CC	No	No	No	Yes
M1801M	1	Computer, Microprocessing, w/Dual Flat Panel Monitor	VV	Yes	Yes	No	No
M1810	1	Printer, Copier, Free Standing	VV	Yes	Yes	No	No
HOLDING							
F2405	1	Holding Bench-Floor mounted	VV	No	No	No	No
C2-206 INTERVIEW ROOM							
A5210	1	Adjustable TV Bracket Arm	VC	No	No	No	Yes
F0225	4	Chair, Dining	VV	No	No	No	No
F0795	1	Table, Dining, Square	VV	No	No	No	No
M0500	1	Monitor, Television	VV	No	Yes	No	No
C2-208 OFFICE							
A1015	1	Telephone, Desk	VV	Yes	No	No	No
A5145	2	Hook, Garment, Double, SS, Wall Mounted	CC	No	No	No	Yes
E0078	1	Workstation	VV	Yes	Yes	No	No
F0205	1	Chair, w/Side Arms	VV	No	No	No	No
F0210	1	Chair, Side, Without Arms	VV	No	No	No	No
F0275	1	Chair, Swivel Task	VV	No	No	No	No
F0420	1	Filing Cabinet, Lateral, Half Height	VV	No	No	No	No
F2000	1	Basket, Wastebasket, Rectangular, Metal	VV	No	No	No	No
F3050	1	24" X 36" Whiteboard, Dry Erase	CC	No	No	No	Yes
F3200	1	Clock, Battery, 12" Diameter	VV	No	No	No	No
M1801M	1	Computer, Microprocessing, w/Dual Flat Panel Monitor	VV	Yes	Yes	No	No
C2-210 ARMORY							
M2015M	1	Cabinet, Storage, Flammable, Wall Mounted	VV	No	No	No	Yes
U0016	3	Evidence Lockers-10 Openings	VV	No	No	No	Yes
U0017	1	Locker Weapons Rack 42" W	VV	No	No	No	Yes
U0018	1	Locker Weapons Rack- 22" x 16" x 61"	VV	No	No	No	Yes
U0038	2	Surface Mounted Gun Locker-4	CC	No	No	No	Yes
U0038M	1	Surface Mounted Gun Locker-2	CC	No	No	No	Yes
C2-210A WEAPONS							
U0039	3	Recessed Gun Lockers	CC	No	No	No	Yes
C2-211 TRAINING ROOM							
F0275	2	Chair, Swivel Task	VV	No	No	No	No
F0280	8	Chair, Swivel, Low Back	VV	No	No	No	No
F2000	1	Basket, Wastebasket, Rectangular, Metal	VV	No	No	No	No
F2225	1	Projector, Ceiling Mounted	VV	Yes	Yes	No	Yes
F3050M	1	42" X 12-42" Whiteboard, Dry Erase	CC	No	No	No	Yes
F3200	1	Clock, Battery, 12" Diameter	VV	No	No	No	No
M1802	2	24" MONITOR	VV	No	Yes	No	Yes
PT023	1	Table, Adjustable Height, 24"x84"	VV	No	Yes	No	No
PT091	4	Table, Adjustable Height, 24"x60"	VV	No	Yes	No	No
C2-212 MEN'S LOCKERS							
A1080	1	Mirror, Posture, Wall Mounted	CC	No	No	No	Yes
A5145	1	Hook, Garment, Double, SS, Wall Mounted	CC	No	No	No	Yes
F2000	1	Basket, Wastebasket, Rectangular, Metal	VV	No	No	No	No
U0040	24	Personal Storage Locker	CC	No	No	No	Yes
C2-213 MEN'S TL							
A1067	1	Mirror, Float Glass, ADA Accessible	CC	No	No	No	Yes
A5030	1	Bench, Stall, Shower, Built In	CC	No	No	No	Yes
A5075	1	Dispenser, Soap, Disposable	VV	No	No	No	No
A5082	1	Dispenser, Paper Towel, SS, Surface Mounted-Sensor	VV	No	No	No	Yes
A5090	1	Disposal, Sanitary Napkin, SS, Surface Mounted	VV	No	No	No	Yes
A5109	2	Grab Bars with Vertical	CC	No	No	No	Yes
A5110E	2	42" Grab Bar, 1-1/4" Dia, SS, 2 Wall	CC	No	No	No	Yes
A5145	2	Hook, Garment, Double, SS, Wall Mounted	CC	No	No	No	Yes
A5170	1						





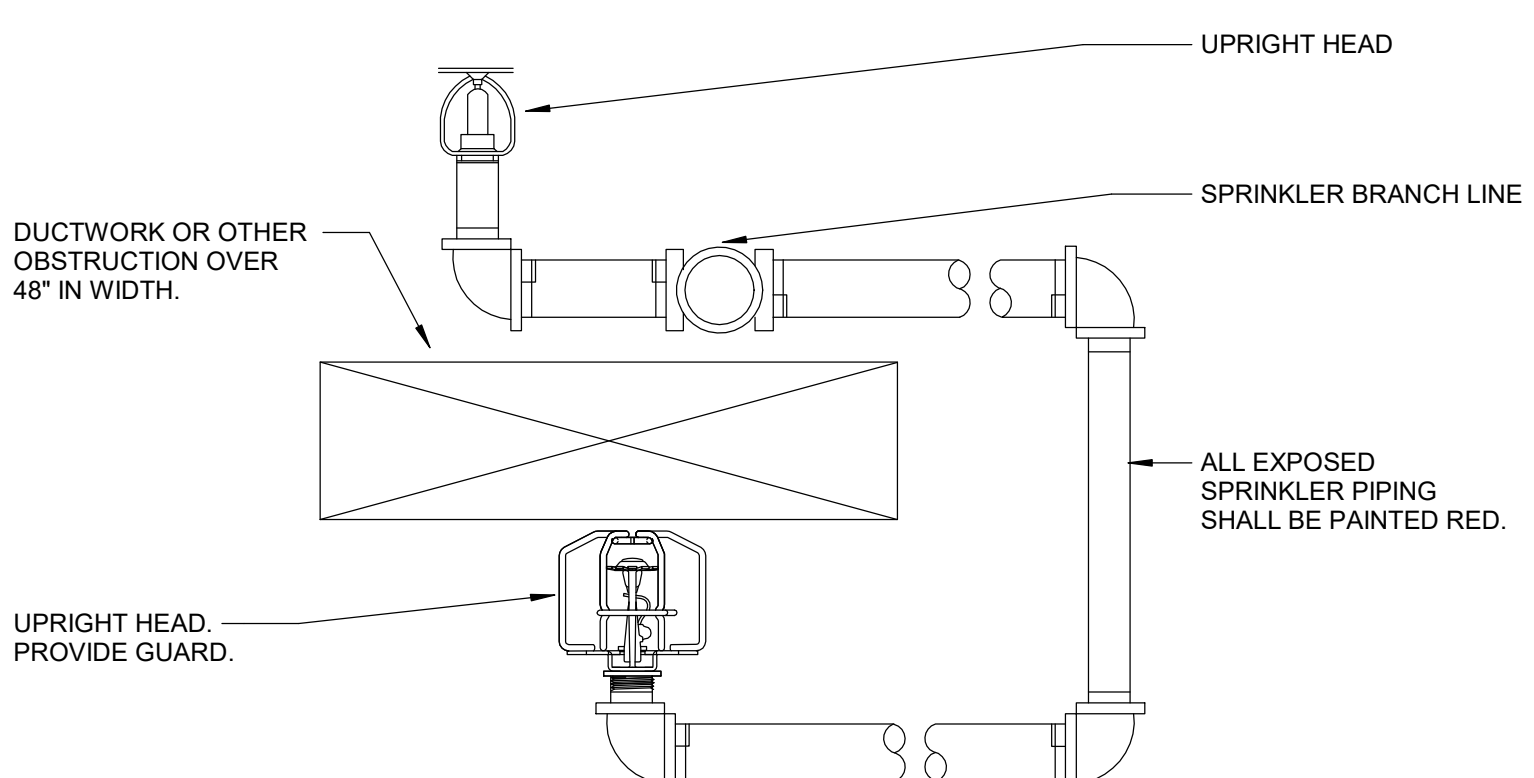
NOTE:  
 MINIMUM SIZE OF OPENINGS AROUND SPRINKLER PIPE PENETRATIONS OF CONCRETE OR CMU WALLS SHALL BE IN ACCORDANCE WITH NFPA 13 SEISMIC REQUIREMENTS.

**5 SPRINKLER PIPE SLEEVE THRU FIRE RATED WALL DETAIL**  
 Scale: No Scale



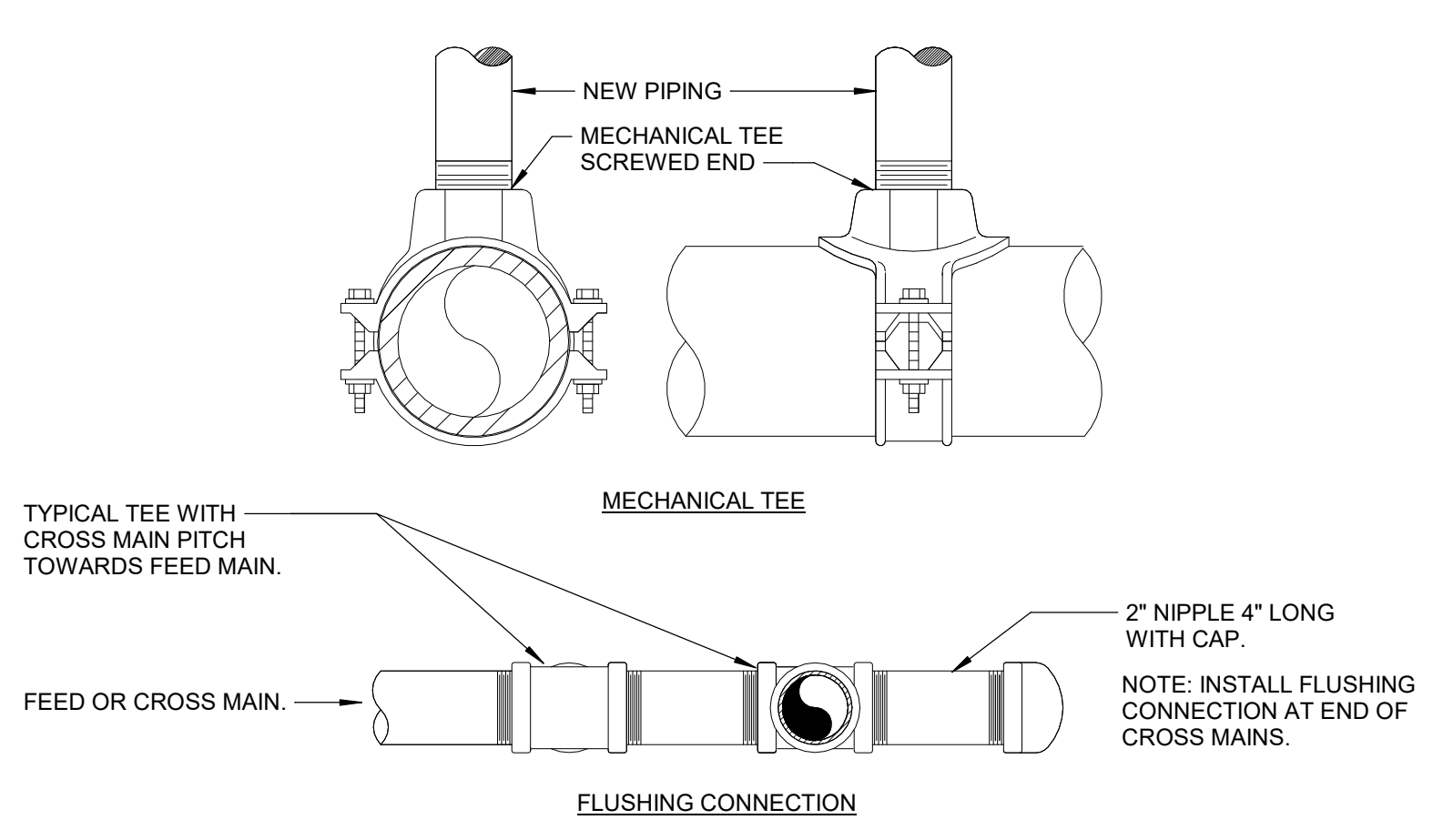
NOTE:  
 1. ALL EXPOSED PIPING SHALL BE PAINTED RED.  
 2. PROVIDE GUARDS ON UPRIGHT SPRINKLERS UNLESS OTHERWISE NOTED.

**6 UPRIGHT AUTOMATIC SPRINKLER DETAIL**  
 Scale: No Scale

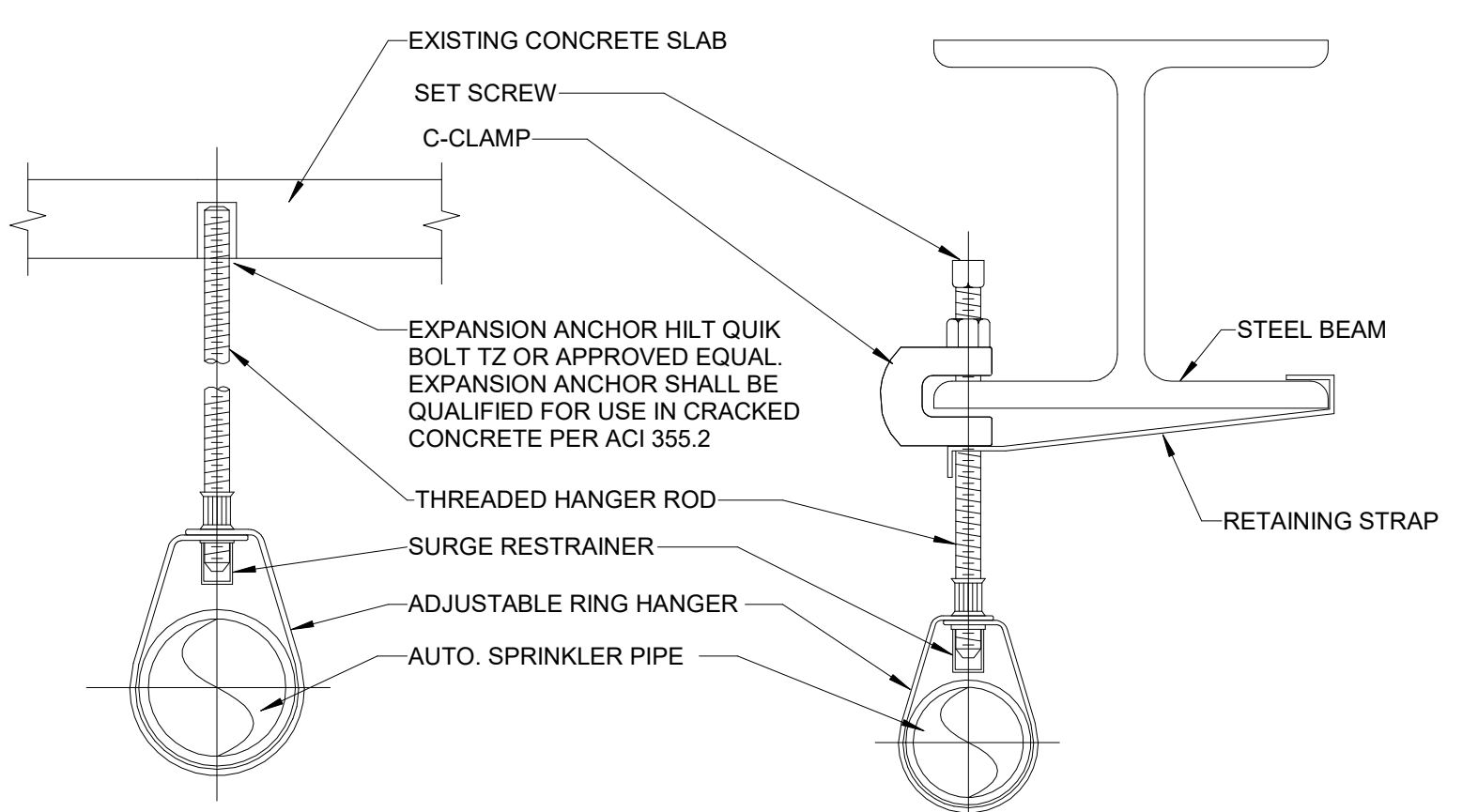


NOTE:  
 1. PROVIDE SPRINKLER ABOVE AND BELOW DUCT OR OTHER OBSTRUCTION OVER 48" IN WIDTH.  
 2. COORDINATE SPRINKLER PIPE ROUTING AND LOCATION WITH COR AND ALL PARTIES INVOLVED WITH INSTALLATION OF THE OBSTRUCTION.  
 3. PROVIDE PIPE SUPPORTS THAT COMPLY WITH NFPA 13 REQUIREMENTS. INCLUDE COST OF ADDITIONAL SUPPORTS AS REQUIRED.  
 4. ATTACH PIPE SUPPORTS TO BUILDING STRUCTURE OR PROVIDE SUPPLEMENTAL STEEL ANCHOR POINTS. DO NOT ATTACH PIPE SUPPORTS TO DUCTWORK, PIPES, CONDUIT, OR EXISTING HANGER RODS FOR OTHER EQUIPMENT.

**7 SPRINKLER ABOVE AND BELOW DUCT DETAIL**  
 Scale: No Scale

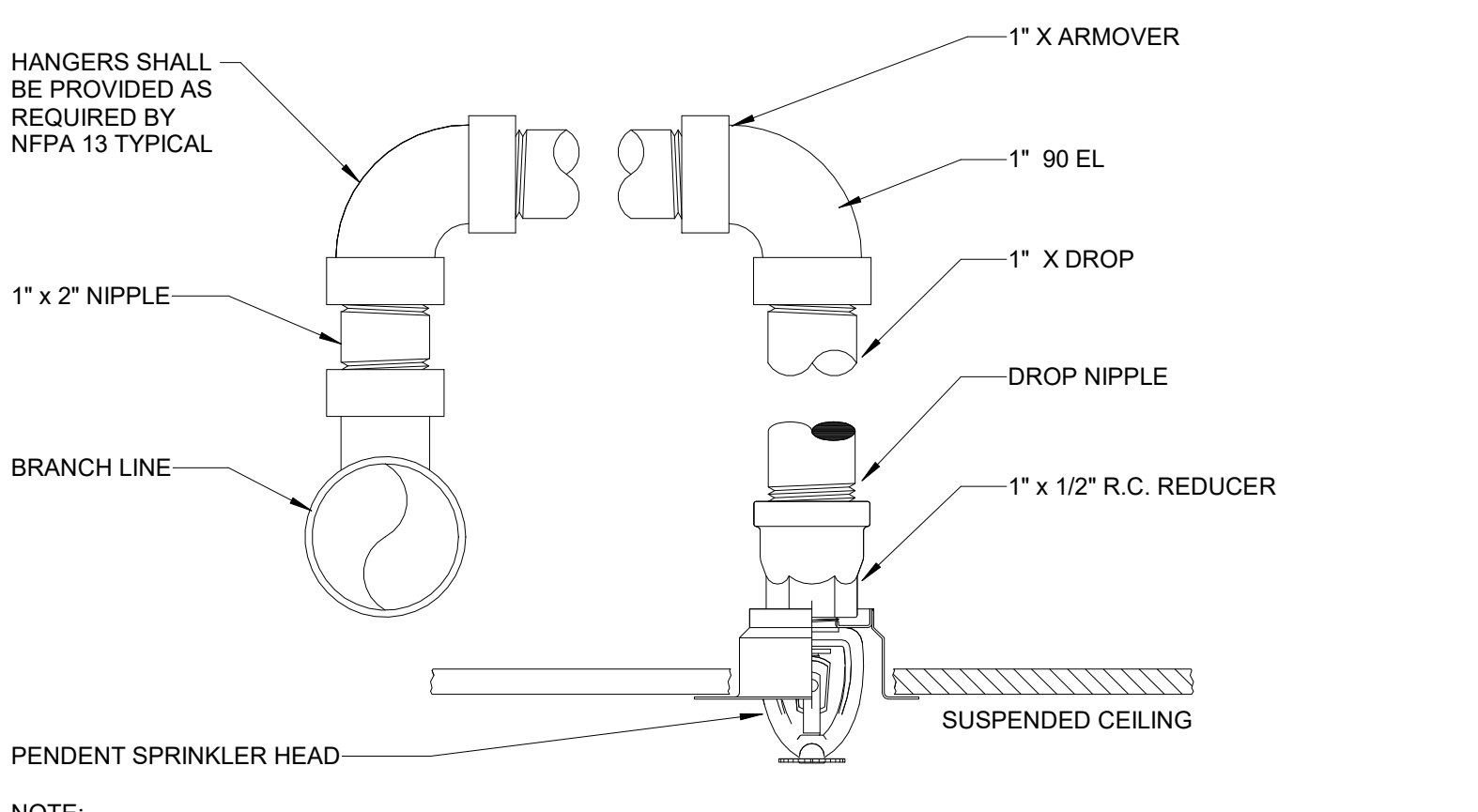


**1 MECHANICAL TEE AND FLUSHING CONNECTION DETAIL**  
 Scale: No Scale



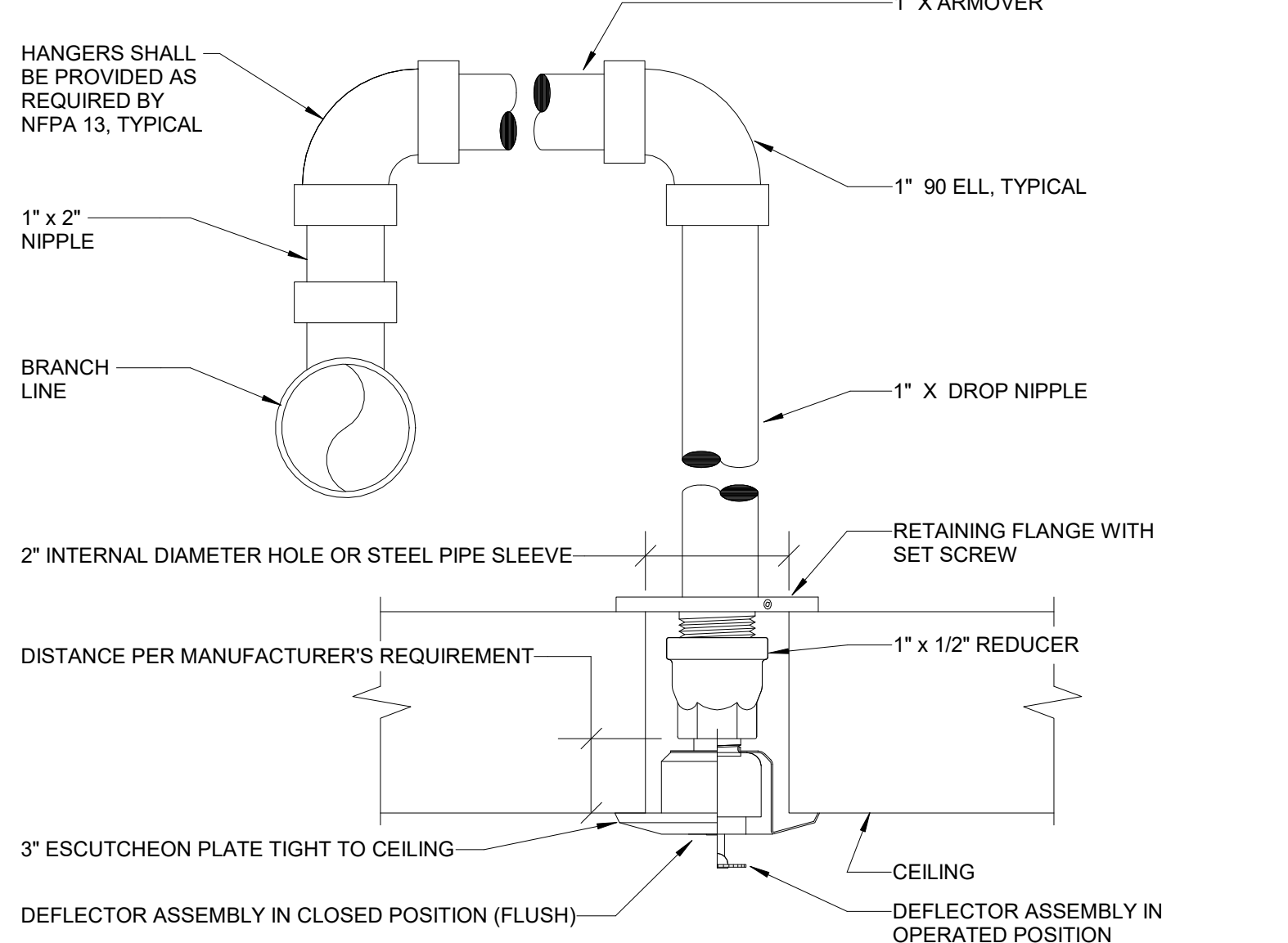
NOTE:  
 HANGING DETAILS SHOWN ARE SUBJECT TO REQUIREMENTS OF SEISMIC DESIGN.

**2 PIPE HANGER SUPPORT DETAIL**  
 Scale: No Scale



NOTE:  
 1. ALL SPRINKLERS SHALL BE FM APPROVED QUICK RESPONSE.  
 2. ALL EXPOSED PIPING SHALL BE PAINTED RED.

**3 SEMI-RECESSED PENDENT SPRINKLER DETAIL**  
 Scale: No Scale



NOTES:  
 1. INSTALL PER MANUFACTURER'S REQUIREMENTS.  
 2. PROVIDE INSTALLATION TOOL.

**4 ANTI-LIGATURE CONCEALED SPRINKLER**  
 Scale: No Scale

FIRE SUPPRESSION SYMBOLS & ABBREVIATIONS		
NOTE: NOT ALL SYMBOLS MAY BE USED ON THIS PROJECT		
FS	FIRE SUPPRESSION LINE	FPC FIRE PROTECTION CONTRACTOR
DRAIN	FIRE DRAIN	EXTERIOR ALARM GONG (WATER ACTIVATED)
U	UPRIGHT SPRINKLER HEAD	BACKFLOW PREVENTER
SR	SEMI-RECESSED SPRINKLER HEAD	CHECK VALVE
C	CONCEALED SPRINKLER HEAD	GATE VALVE
P	PENDANT SPRINKLER HEAD	TEST AND DRAIN ASSEMBLY
S	SIDEWALL SPRINKLER HEAD	TAMPER SWITCH
FDC	FIRE DEPARTMENT CONNECTION (FDC)	FLOW SWITCH
NW	NEW WORK KEYNOTE	LIGHT HAZARD
DEM	DEMOLITION KEYNOTE	ORDINARY HAZARD GROUP 1 OCCUPANCY
PN	POINT OF NEW CONNECTION	ORDINARY HAZARD GROUP 2 OCCUPANCY
L	LIMIT OF DEMOLITION	DETAIL MODULE NUMBER
		DETAIL OR SECTION MARK
		SHOWN ON DRAWING

INFECTON CONTROL MEASURES	
1.	CONTRACTOR SHALL COMPLY WITH THE VA'S INFECTON CONTROL RISK ASSESSMENT REQUIREMENTS AND WRITTEN DUST CONTROL PLAN.
2.	EXISTING AIR QUALITY REQUIREMENTS AND OTHER UTILITY REQUIREMENTS FOR OCCUPIED AREAS SHALL BE MAINTAINED.
3.	RENOVATION AREAS SHALL BE ISOLATED FROM OCCUPIED AREAS DURING CONSTRUCTION USING AIRTIGHT BARRIERS. PROVIDE EXHAUST AIRFLOW IN A MANNER THAT SHALL BE SUFFICIENT TO MAINTAIN NEGATIVE AIR PRESSURE IN THE CONSTRUCTION ZONE. COORDINATE TEMPORARY BARRIERS WITH INTERIM LIFE SAFETY MEASURES
4.	FIRE PROTECTION SYSTEM REVISIONS SHALL BE PROPERLY PERFORMED TO LIMIT WATERBORNE OPPORTUNISTIC PATHOGENS.
5.	CRUCIAL VENTILATION SPECIFICATIONS FOR AIR BALANCE AND FILTRATION SHALL BE VERIFIED BEFORE COR ACCEPTANCE.

BUILDING AND OCCUPANT SAFETY - INTERRUPTION OF FIRE PROTECTION SERVICE	
1.	DURING THE TIME THAT THE FIRE PROTECTION RENOVATION WORK IS BEING PERFORMED, AND THE FIRE PROTECTION SYSTEM IS OUT OF COMMISSION, CONTRACTOR SHALL HAVE SUFFICIENT PERSONNEL ONSITE TO KEEP A "FIRE WATCH" ON THE FACILITY IN ACCORDANCE WITH VA REQUIREMENTS. AN OUT OF SERVICE TAG MUST BE PLACED AT THE FIRE ALARM PANEL AND THE FIRE DEPARTMENT CONNECTION. REFER TO INTERNATIONAL FIRE CODE CHAPTER 9, SECTION 901.7.
2.	FIRE WATCH PERSONNEL ARE TO KEEP WATCH FOR FIRES IN THE GENERAL AREA OF PERFORMANCE, THE PERSONS PERFORMING THE FIRE WATCH ARE NOT PERMITTED TO PERFORM ANY OTHER DUTIES.
3.	FIRE WATCH PERSONNEL ARE TO HAVE FIRE EXTINGUISHING EQUIPMENT READILY AVAILABLE AND TO BE TRAINED IN ITS USE.
4.	THE QUANTITY OF PERSONNEL INVOLVED IN THE FIRE WATCH IS TO BE ADEQUATE SUCH THAT EACH FLOOR, LEVEL, AND ROOM OF THE FIRE AREA IS COVERED.

HYDRANT FLOW TEST INFORMATION					
STATIC PSI	RESIDUAL PSI	FLOW GPM	DATE	LOCATION	FLOW TEST PERFORMED BY
49	47	1130	8/16/2022	HYDRANT #8, BOILER PLANT	JOHNSON CONTROLS

THE FLOW TEST INFORMATION LISTED ABOVE IS INTENDED AS A REFERENCE FOR THE FIRE PROTECTION CONTRACTOR. THE FIRE PROTECTION CONTRACTOR SHALL PERFORM A HYDRAULIC FLOW TEST NEAR THE PROJECT SITE TO VERIFY ACTUAL FLOW CONDITIONS ON WHICH TO BASE THE FIRE PROTECTION DESIGN. FLOW ENOUGH WATER TO PROVIDE AT LEAST A 10% DROP IN RESIDUAL PRESSURE COMPARED TO THE STATIC PRESSURE.

FIRE PUMP FLOW TEST INFORMATION					
TEST SUCTION PRESSURE, PSI	TEST DISCHARGE PRESSURE, PSI	TEST FLOW RATE GPM	DATE	LOCATION	FLOW TEST PERFORMED BY
30	90	1127	8/15/2022		JOHNSON CONTROLS

THE FLOW TEST INFORMATION LISTED ABOVE IS INTENDED AS A REFERENCE FOR THE FIRE PROTECTION CONTRACTOR. THE FIRE PROTECTION CONTRACTOR SHALL PERFORM A HYDRAULIC FLOW TEST NEAR THE PROJECT SITE TO VERIFY ACTUAL FLOW CONDITIONS ON WHICH TO BASE THE FIRE PROTECTION DESIGN.

**DEDUCTIVE ALTERNATES**  
 DELETE ALL WORK ASSOCIATED WITH THE NEW SECOND FLOOR POLICE SUITE, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED DEMOLITION AND NEW CONSTRUCTION.

FIRE SUPPRESSION DEMOLITION GENERAL NOTES	
1.	LOCATIONS SHOWN FOR EXISTING FIRE PROTECTION PIPE AND EQUIPMENT ARE APPROXIMATE. FIELD VERIFY THE EXACT LOCATIONS OF EXISTING FIRE PROTECTION LINES AND EQUIPMENT INCLUDING RISERS AND VALVES PRIOR TO START OF WORK.
2.	COORDINATE WITH COR FOR ANY SHUTDOWNS OR PLANNED INTERRUPTIONS OF THE FIRE PROTECTION SERVICE. GIVE THE COR THREE (3) DAYS NOTICE PRIOR TO PLANNED SHUTDOWN OR INTERRUPTION.
3.	COORDINATE DEMOLITION OF FIRE PROTECTION PIPING WITH OTHER PIPING WHICH IS NOT TO BE REMOVED. PROTECT OTHER PIPING WHICH IS NOT TO BE REMOVED FROM DAMAGE, DIRT, AND DEBRIS.
4.	FIRE PROTECTION RELATED EQUIPMENT AND PIPING WHICH IS REMOVED FROM THE BUILDING IS TO BE TAKEN OFFSITE AND DISPOSED OF.
5.	REMOVE SPRINKLER MAINS, BRANCHES AND SPRINKLERS BACK TO THE ZONE CONTROL VALVE AS NEEDED TO INSTALL NEW SPRINKLER SYSTEM.

FIRE SUPPRESSION GENERAL NOTES	
1.	USE NFPA-13 (CURRENT EDITION), "PLANS AND CALCULATIONS" CHAPTER AS A GUIDELINE WHEN PREPARING SUBMITTALS FOR REVIEW. DISREGARD ONLY THOSE ITEMS NOT APPLICABLE TO THE INDIVIDUAL BUILDING SYSTEM. FIRE PROTECTION MATERIALS, EQUIPMENT AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA-13 FOR THE INSTALLATION OF AUTOMATIC SPRINKLER SYSTEM.
2.	INSTALLATION SHALL COMPLY WITH VA REQUIREMENTS. SYSTEM SHALL ALSO BE IN COMPLIANCE WITH ALL REQUIRED PLUMBING CODES.
3.	REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND ROOM FINISH SCHEDULE WHICH INDICATE CEILING HEIGHTS. COORDINATE WITH ARCHITECT'S REFLECTED CEILING PLAN FOR LOCATION OF SPRINKLER HEADS IN AREAS WITH CEILINGS. LOCATE HEADS IN AREAS WITHOUT CEILINGS AS REQUIRED BY NFPA AND VA REQUIREMENTS FOR THE APPROPRIATE HAZARD CLASSIFICATION.
4.	THIS FACILITY IS FULLY SPRINKLERED. FIRE SUPPRESSION SYSTEM SHALL BE WET PIPE TYPE SYSTEM WITH COMPLETE SPRINKLER PROTECTION UNLESS NOTED OTHERWISE. SYSTEM TO BE DESIGNED AS REQUIRED BY NFPA AND VA REQUIREMENTS FOR THE APPROPRIATE HAZARD CLASSIFICATION.
5.	SPRINKLER HEAD LAYOUTS INDICATED ARE BASED ON OCCUPANCY HAZARD CLASSIFICATIONS OUTLINED IN NFPA-13 AND VA STANDARDS.
6.	HYDRAULICALLY CALCULATE SPRINKLER IN ACCORDANCE WITH REQUIREMENTS FOR APPROPRIATE HAZARD OCCUPANCY. PROVIDE ACTUAL NUMBER OF HEADS, REQUIRED SPACING AND PIPE ROUTING AS REQUIRED FOR CLEARANCE WITH STRUCTURAL CONDITIONS AND OTHER TRADES TO PROVIDE A COMPLETE AND OPERABLE SYSTEM IN ACCORDANCE WITH NFPA AND VA REQUIREMENTS.
7.	FIRE PROTECTION CONTRACTOR SHALL OBTAIN FLOW TEST DATA INDICATING THE WATER FLOW, STATIC PRESSURE AVAILABLE WITH NO FLOW, AND RESIDUAL PRESSURE AT FULL FLOW TO THE FACILITY. SUBMIT HYDRAULIC CALCULATIONS AND PLANS RELATED TO A MINIMUM OF 1 REMOTE AREA FOR REVIEW.
8.	PIPING IS SHOWN IN SCHEMATIC FORM TO INDICATE APPROXIMATE ARRANGEMENT OF EQUIPMENT AND PIPING. SPRINKLER CONTRACTOR SHALL DESIGN THE SYSTEM AND ROUTE PIPING AS REQUIRED FOR CONFORMANCE WITH ACTUAL BUILDING CONDITIONS AND NFPA REQUIREMENTS. COORDINATE SPRINKLER WORK WITH ALL OTHER TRADES TO AVOID CONFLICT.
9.	SUPPORT NEW PIPING AND EQUIPMENT FROM STRUCTURE. PROVIDE ALL SUPPLEMENTAL STEEL TO SPAN BETWEEN PRIMARY BUILDING STRUCTURAL MEMBERS. DESIGN SUPPLEMENTAL STEEL AND SUPPORTS INCLUDING REACTION LOADS AT PRIMARY BUILDING STRUCTURAL MEMBERS.
10.	PROVIDE SPRINKLER HEADS IN CONCEALED LOCATIONS IN ACCORDANCE WITH NFPA REQUIREMENTS.
11.	CLEAN ENTIRE WORK AREA OF ALL DUST, DIRT, AND OTHER DEBRIS. MAINTAIN WORK AREA IN CLEAN CONDITION.
12.	PROVIDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, ETC. REQUIRED FOR COMPLETE AND FUNCTIONAL SYSTEM AS SPECIFIED AND INDICATED ON THE DRAWINGS.
13.	SUBMIT ONE COMPLETE SET OF AUTOMATIC SPRINKLER SYSTEM DRAWINGS, HYDRAULIC CALCULATIONS, CURRENT WATER FLOW TEST, AND THE EQUIPMENT DATA BROCHURES PREPARED BY OR UNDER THE SUPERVISION OF, AND SEALED BY A PROFESSIONAL ENGINEER.
14.	REPAIR OR REPLACE NON-CONFORMING AND INADEQUATE WORK AT NO ADDITIONAL COST TO THE VA.
15.	PROVIDE FIRE STOPS / SEALANT AT ALL PIPE PENETRATIONS THROUGHOUT FIRE RATED WALLS. REVIEW ARCHITECTURAL PLANS PRIOR TO BIDDING AND INDICATE PENETRATIONS ON SPRINKLER LAYOUT SUBMITTAL.
16.	FLOW AND TAMPER SWITCHES ARE TO BE PURCHASED AND INSTALLED AS WORK OF DIVISION 21. PROVIDE WIRING TO FLOW AND TAMPER SWITCHES AS WORK OF DIVISION 26.
17.	WATER SERVICE AND DETECTOR TYPE REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER TO BE PROVIDED AND TESTED AS WORK OF DIVISION 22. INCORPORATE ASSOCIATED PRESSURE DROP OF SELECTED BACKFLOW PREVENTER DEVICE IN HYDRAULIC CALCULATIONS.
18.	FURNISH AND INSTALL ARMORER SUPPORTS FOR ALL END OF LINE BRANCH LINES IN ACCORDANCE WITH NFPA-13.
19.	ALL DROPS TO SPRINKLER HEADS SHALL TEE / ELBOW OFF TOP OF BRANCH PIPE, EXCEPT WHERE STRUCTURAL, ARCHITECTURAL OR MECHANICAL EQUIPMENT CONDITIONS PRELUDE CONNECTION AT TOP OF PIPE.
20.	SPRINKLER HEADS SHALL BE IN A SYMMETRICAL PATTERN, NOT NECESSARILY IN THE CENTER OF ROOMS OR CORRIDORS. LOCATE CENTERED IN CEILING TILE WHERE POSSIBLE.
21.	LOCATE THE INSPECTOR'S TEST CONNECTION AND MAIN DRAIN LOCATIONS IN ACCORDANCE WITH NFPA-13.
22.	FIRE DEPARTMENT CONNECTION SHALL BE LOCATED NOT MORE THAN 100 FEET AWAY FROM THE NEAREST FIRE HYDRANT CONNECTED TO AN APPROVED WATER SUPPLY AND SHALL BE LOCATED NOT LESS THAN 18 INCHES, NOR MORE THAN 48 INCHES ABOVE ADJACENT SURFACE.
23.	STANDPIPES SHALL BE PROVIDED IN EACH REQUIRED EGRESS STAIRWAY, WITH 4 INCH DIAMETER MINIMUM SIZE.
24.	CLASS 1 SYSTEM SHALL BE PROVIDED WITH 2 1/2 INCH HOSE CONNECTIONS AT EACH INTERMEDIATE LANDING BETWEEN FLOORS IN EACH REQUIRED EGRESS EXIT STAIRWAY. COORDINATE TYPE OF HOSE CONNECTIONS WITH THE LOCAL FIRE DEPARTMENT.

THE FIRE PROTECTION DRAWING IS DESIGNED TO BE IN CONFORMANCE WITH NFPA 13. IT IS A PERFORMANCE BASED DRAWING INDICATING THE EXTENT OF FIRE PROTECTION WORK FOR THE AREA THAT THIS DRAWING REPRESENTS. THIS DRAWING IS FOR INFORMATION ONLY, AS A REFERENCE FOR THE FIRE PROTECTION CONTRACTOR TO BASE THE DESIGN OF THE FIRE PROTECTION SYSTEM ON. THE CONTRACTOR SHALL VERIFY THE EXACT CONDITIONS THAT THIS DRAWING REPRESENTS, INCLUDING ANY PERCEIVED CONCEALED SPACES, AND THE BUILDING TYPE AND CONSTRUCTION AS OUTLINED IN THE INTERNATIONAL BUILDING CODE, PRIOR TO THE START OF WORK. REFER TO NFPA 13, AND THE PROJECT SPECIFICATIONS FOR OTHER FIRE PROTECTION REQUIREMENTS.

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 100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:



**PROJECT MANAGER**  
 ACG Project Number 20-083  
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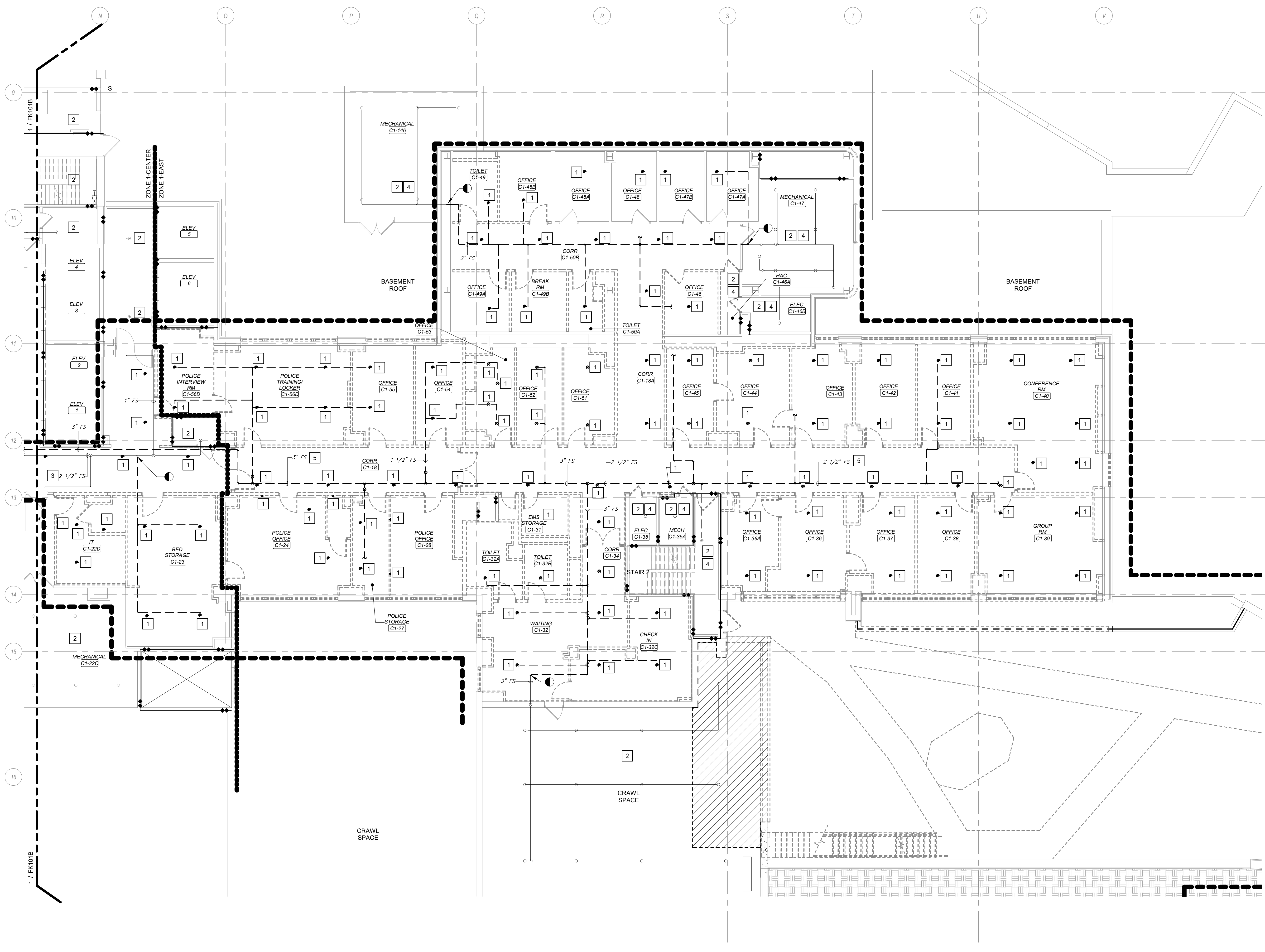
Office of Construction and Facilities Management  
 U.S. Department of Veterans Affairs

Drawing Title: FIRE SUPPRESSION GENERAL INFORMATION  
 Location: WILKES-BARRE VA MEDICAL CENTER  
 1111 EAST END BLVD  
 WILKES-BARRE, PA 18711

Project Title: EXPAND MENTAL HEALTH CLINIC  
 Approved: [Signature]  
 Date: FEBRUARY 21, 2024  
 Checked: SWR  
 Drawn: SMR/TB

VA PROJECT NUMBER: 693-352  
 Building Number: # 1  
 Drawing Number: FX001  
 Dwg 1 of 7



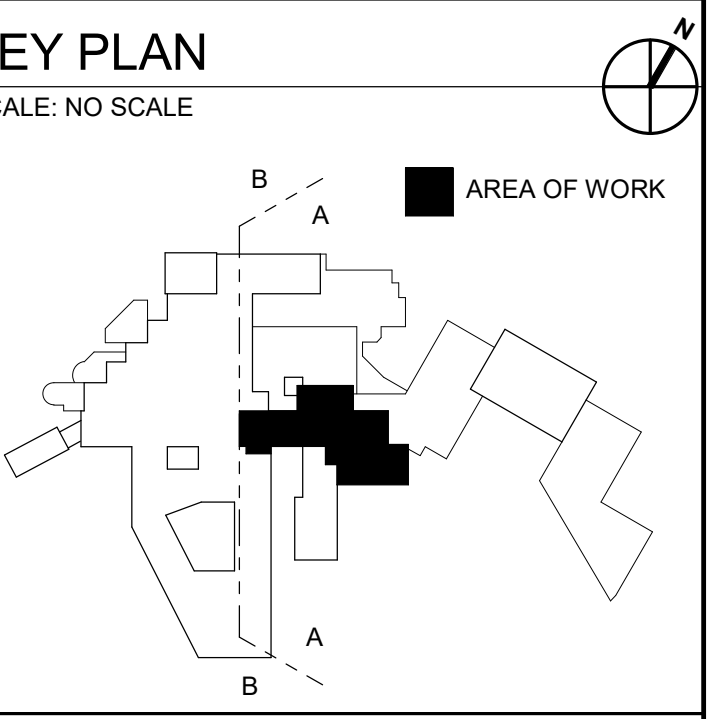


**1** FIRST FLOOR FIRE SUPPRESSION DEMOLITION PLAN - AREA A  
Scale: 1/8" = 1'-0"

- SHEET NOTES:**
- A. REMOVE EXISTING SPRINKLER HEADS IN THE AREAS BEING RENOVATED.
  - B. DEMOLISH SPRINKLER BRANCH PIPING TO MAINS AS NECESSARY FOR NEW LAYOUT.
  - C. EXISTING PIPE SIZES ARE SHOWN BASED ON BEST AVAILABLE INFORMATION. CONTRACTOR TO FIELD VERIFY.

- KEY NOTES:**
- 1 DEMOLISH EXISTING SPRINKLER AND ASSOCIATED PIPING BACK TO MAIN AND CAP IF MAIN IS INDICATED TO REMAIN.
  - 2 EXISTING SPRINKLERS TO REMAIN IN THIS ROOM.
  - 3 SPRINKLER MAIN SERVING ZONE 1-CENTER TO REMAIN.
  - 4 DEMOLISH BRANCH PIPING TO EXISTING SPRINKLERS IN THIS ROOM AS NECESSARY TO ACCOMMODATE NEW CORRIDOR CEILING HEIGHT.
  - 5 DEMOLISH SPRINKLER MAIN SERVING ZONE 1-EAST TO LIMITS OF DEMOLITION.

- LEGEND:**
- AREA OF WORK
  - SPRINKLER ZONES DIVIDER LINE

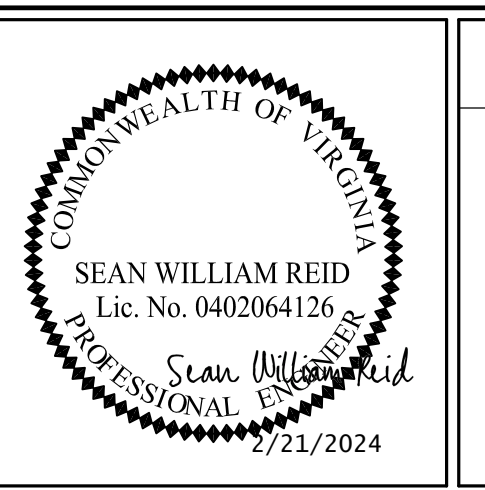


- WALL RATING LEGEND**
- SMOKE RESISTIVE HAZARDOUS AREA
  - 1 HR - FIRE BARRIER
  - 1 HR - SMOKE BARRIER
  - 2 HR - FIRE BARRIER
  - 2 HR - SMOKE BARRIER

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#	Revisions:	Date

**CONSULTANTS:**



**PROJECT MANAGER**  
ACG Project Number 20-083  
**APOGEE**  
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Office of Construction and Facilities Management  
**VA** U.S. Department of Veterans Affairs

Drawing Title  
**FIRST FLOOR FIRE SUPPRESSION DEMOLITION PLAN - AREA A**  
Location  
**WILKES-BARRE VA MEDICAL CENTER**  
1111 EAST END BLVD  
WILKES-BARRE, PA 18711

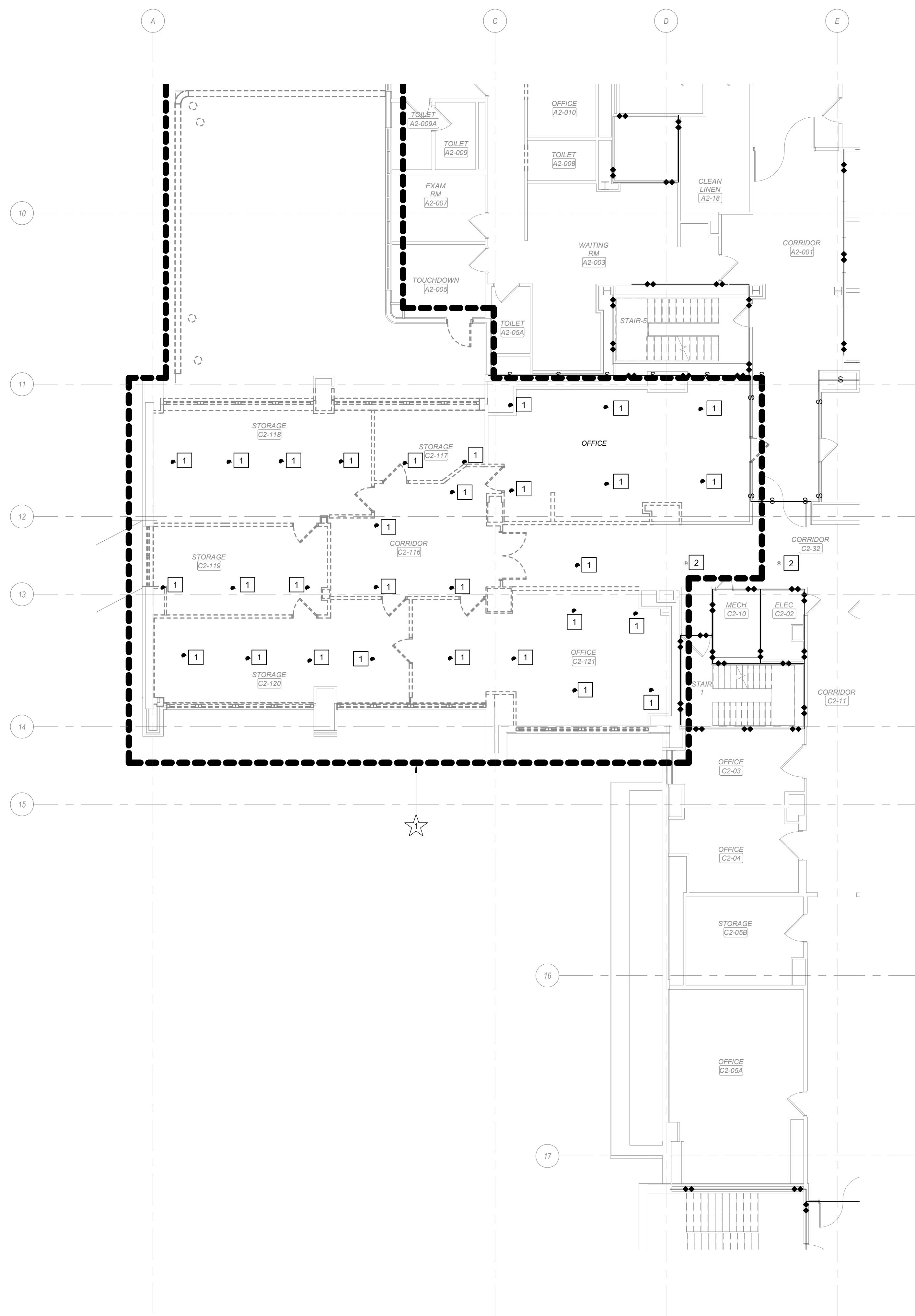
Project Title  
**EXPAND MENTAL HEALTH CLINIC**  
Approved  
Date FEBRUARY 21, 2024  
Checked SWR  
Drawn SMR/TB

VA PROJECT NUMBER 693-352  
Building Number # 1  
Drawing Number **FK101A**  
Dwg 2 of 7

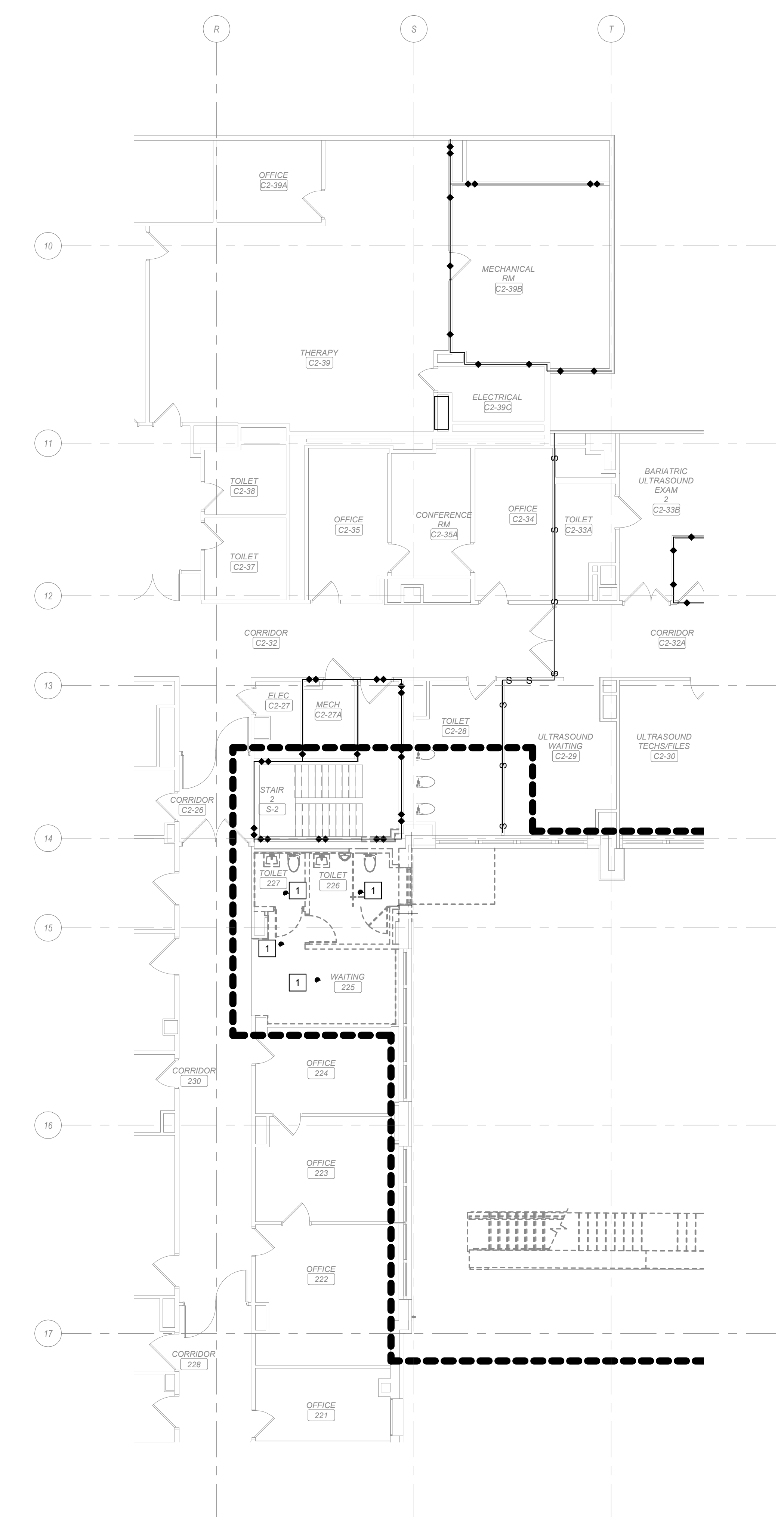
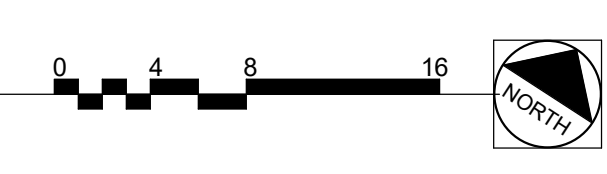








**2 SECOND FLOOR FIRE SUPPRESSION DEMOLITION PLAN - AREA B**  
Scale: 1/8" = 1'-0"



**1 SECOND FLOOR FIRE SUPPRESSION DEMOLITION PLAN - AREA A**  
Scale: 1/8" = 1'-0"



**SHEET NOTES:**

- A. REMOVE EXISTING SPRINKLER HEADS IN THE AREAS BEING RENOVATED.
- B. DEMOLISH SPRINKLER BRANCH PIPING TO MAINS AS NECESSARY OR NEW LAYOUT.
- C. EXISTING PIPE SIZES ARE SHOWN BASED ON BEST AVAILABLE INFORMATION, CONTRACTOR TO FIELD VERIFY.

**KEY NOTES:**

- 1 DEMOLISH EXISTING SPRINKLER AND ASSOCIATED PIPING BACK TO MAIN AND CAP.
- 2 SPRINKLER HEAD SHALL REMAIN.

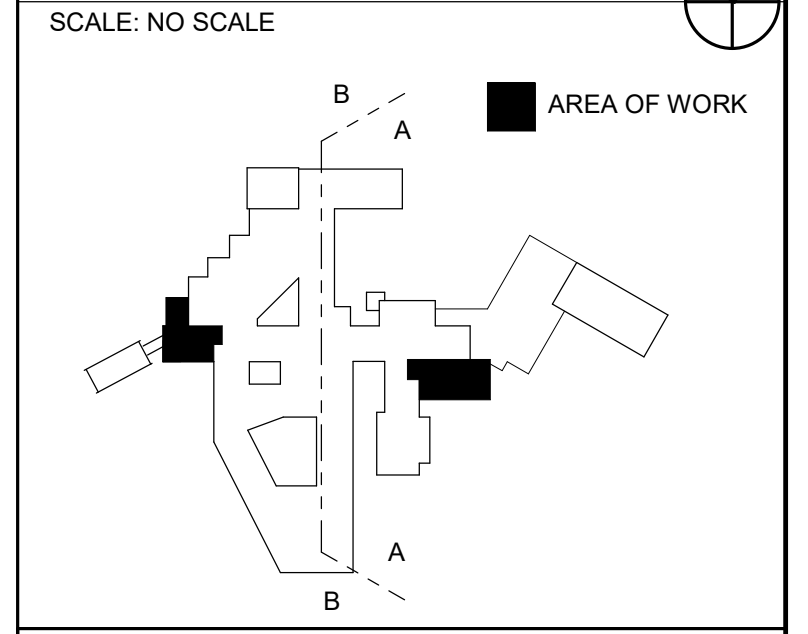
**DEDUCTIVE ALTERNATES:**

★ DELETE ALL WORK ASSOCIATED WITH THE NEW SECOND FLOOR POLICE SUITE, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED DEMOLITION AND NEW CONSTRUCTION.

**LEGEND:**

●●●●● AREA OF WORK

**KEY PLAN**



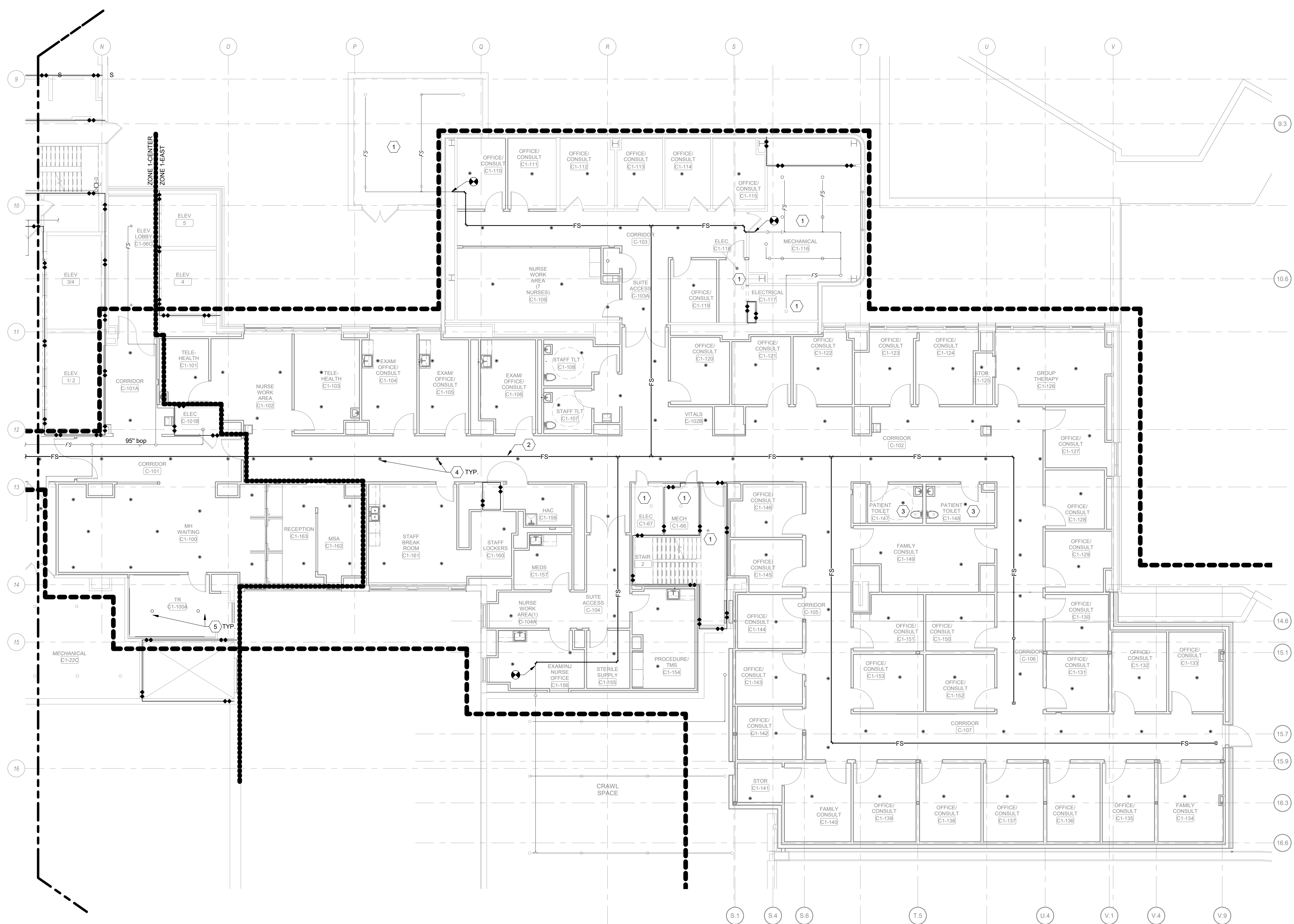
**WALL RATING LEGEND**

- SMOKE RESISTIVE HAZARDOUS AREA
- 1 HR - FIRE BARRIER
- 1 HR - SMOKE BARRIER
- 2 HR - FIRE BARRIER
- 2 HR - SMOKE BARRIER

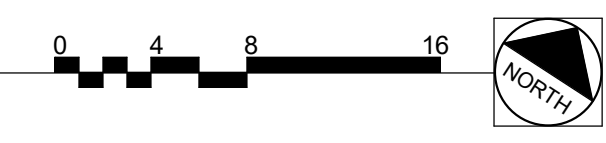
**FULLY SPRINKLERED  
100% CONSTRUCTION DOCUMENTS**

	<b>CONSULTANTS:</b>			<b>PROJECT MANAGER</b> APOGEE Engineers   Architects www.acg-pa.com    919-858-7420	ACG Project Number 20-083	Office of Construction and Facilities Management  VA U.S. Department of Veterans Affairs	Drawing Title <b>SECOND FLOOR FIRE SUPPRESSION                  DEMOLITION PLAN - AREA A AND B</b>	Project Title <b>EXPAND MENTAL HEALTH                  CLINIC</b>	VA PROJECT NUMBER 693-352 Building Number # 1 Drawing Number <b>FK102AB</b> Dwg 4 of 7		
#	Revisions:	Date					Location <b>WILKES-BARRE VA MEDICAL CENTER                  1111 EAST END BLVD                  WILKES-BARRE, PA 18711</b>	Approved	Date FEBRUARY 21, 2024	Checked SWR	Drawn SMR/TB





**1 FIRST FLOOR FIRE SUPPRESSION PLAN - AREA A**  
 Scale: 1/8" = 1'-0"



**SHEET NOTES:**

- A. PROVIDE NEW SPRINKLERS HEADS PER NEW LAYOUT IN THE AREA OF WORK. EXISTING SPRINKLER HEADS OUTSIDE OF AREA OF WORK TO REMAIN AS IS.
- B. REUSE EXISTING MAINS WHERE INDICATED. PROVIDE NEW MAINS AND BRANCH PIPING AS REQUIRED FOR NEW LAYOUT.
- C. FOR HAZARD CLASSIFICATION, REFER TO SPECIFICATIONS.

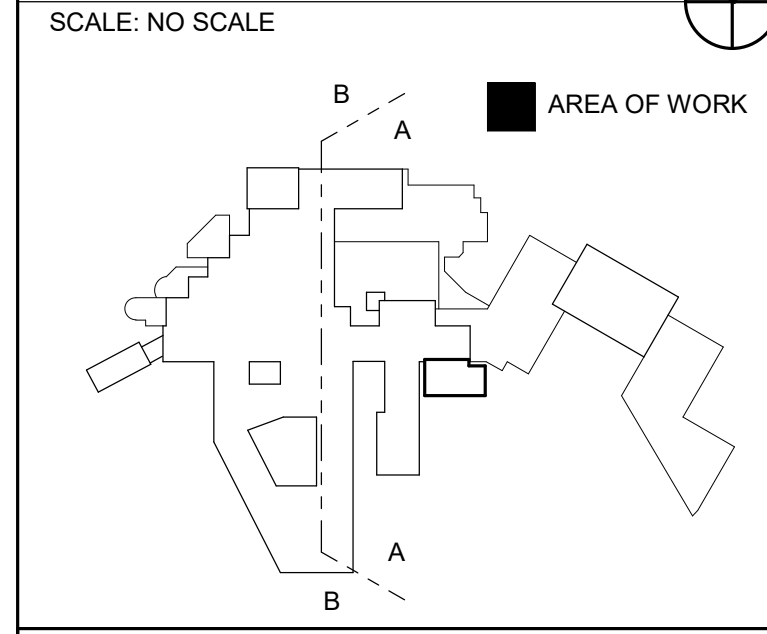
**KEY NOTES:**

- 1 RECONNECT EXISTING SPRINKLERS IN THIS ROOM TO NEW PIPING. PROVIDE BRANCH PIPING AS NECESSARY TO RECONNECT SPRINKLERS.
- 2 PROVIDE NEW SPRINKLER MAIN TO ZONE 1-EAST.
- 3 PROVIDE ANTI-LIGATURE SPRINKLER HEAD IN THIS ROOM.
- 4 PROVIDE NEW SEMI-RECESSED QUICK RESPONSE SPRINKLER HEADS PER NEW LAYOUT.
- 5 PROVIDE NEW UPRIGHT SPRINKLER HEADS PER NEW LAYOUT.

**LEGEND:**

- AREA OF WORK
- SPRINKLER ZONES DIVIDER LINE

**KEY PLAN**



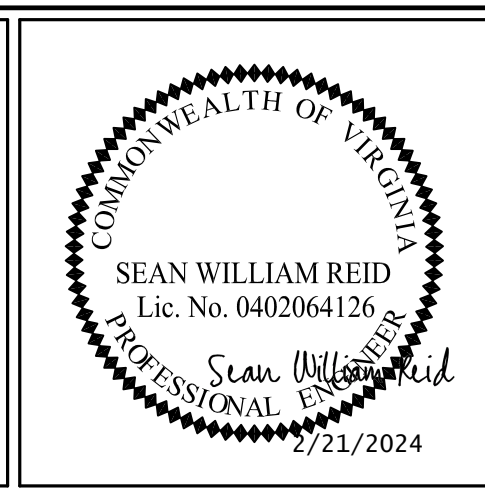
**WALL RATING LEGEND**

- SMOKE RESISTIVE HAZARDOUS AREA
- 1 HR - FIRE BARRIER
- 1 HR - SMOKE BARRIER
- 2 HR - FIRE BARRIER
- 2 HR - SMOKE BARRIER

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#	Revisions:	Date

**CONSULTANTS:**



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

Drawing Title  
**FIRST FLOOR FIRE SUPPRESSION  
 PLAN - AREA A**  
 Location  
**WILKES-BARRE VA MEDICAL CENTER**  
 1111 EAST END BLVD  
 WILKES-BARRE, PA 18711

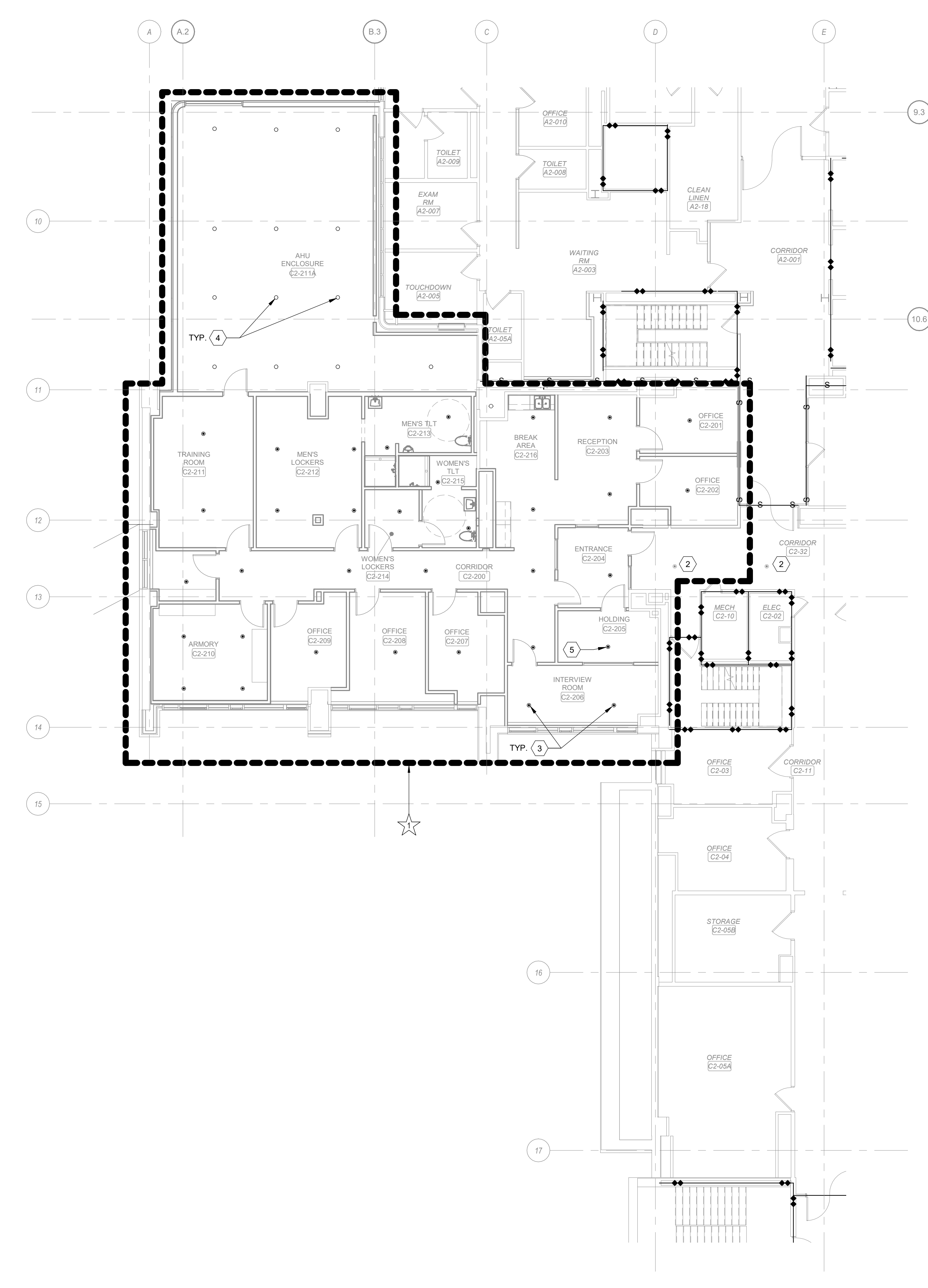
Project Title  
**EXPAND MENTAL HEALTH  
 CLINIC**  
 Approved  
 Date  
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VA PROJECT NUMBER  
 693-352  
 Building Number  
 # 1  
 Drawing Number  
**FX101A**  
 Dwg 5 of 7

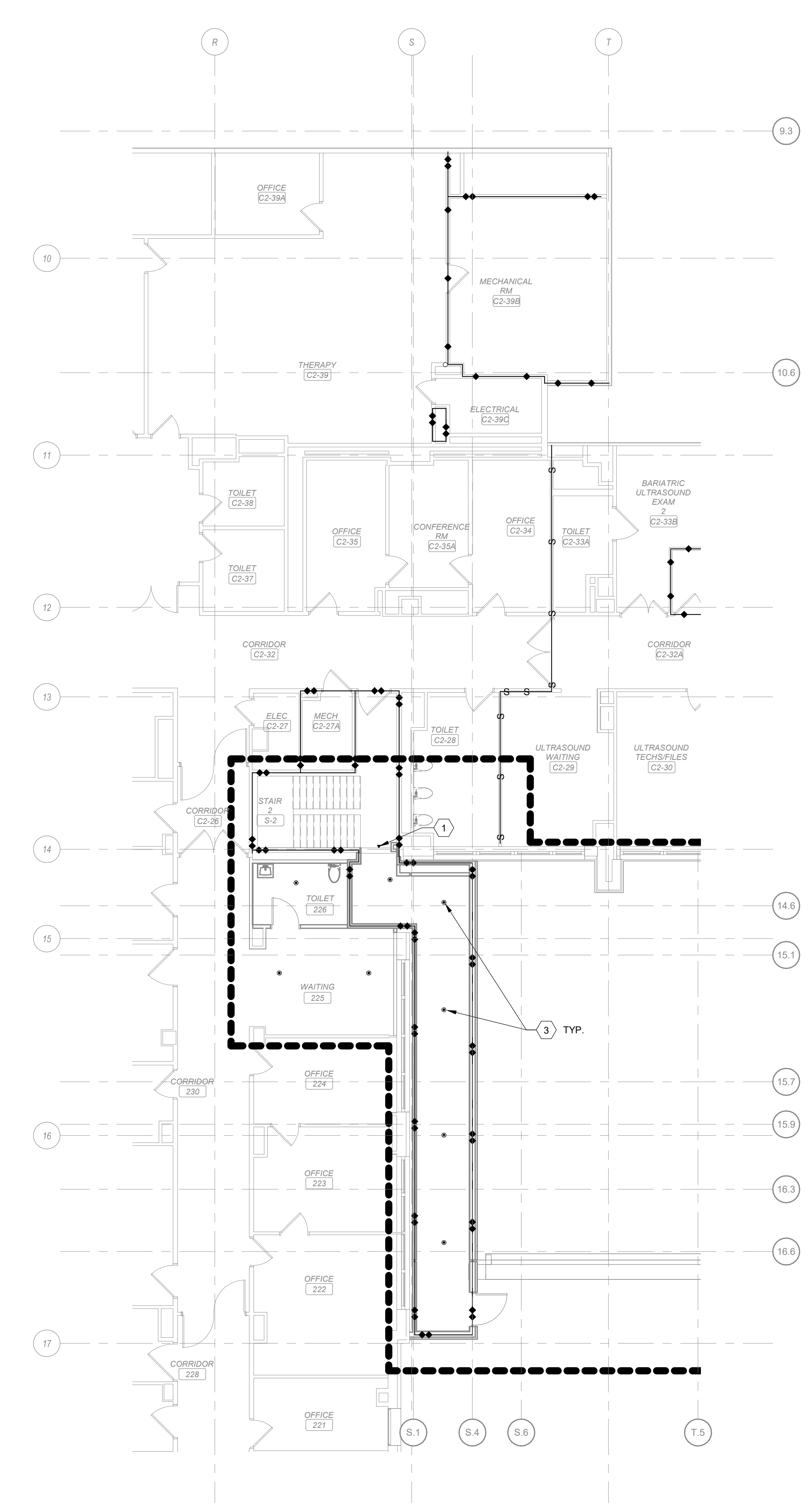








**2 SECOND FLOOR FIRE SUPPRESSION PLAN - AREA B**  
Scale: 1/8" = 1'-0"



**1 SECOND FLOOR FIRE SUPPRESSION PLAN - AREA A**  
Scale: 1/8" = 1'-0"

- SHEET NOTES:**
- PROVIDE NEW SPRINKLERS HEADS PER NEW LAYOUT.
  - REUSE EXISTING MAINS. PROVIDE NEW BRANCH PIPING AS REQUIRED FOR NEW LAYOUT.
  - EXISTING FIRE AND SMOKE ZONES SHALL BE MAINTAINED.
  - FOR HAZARD CLASSIFICATION, REFER TO SPECIFICATIONS.

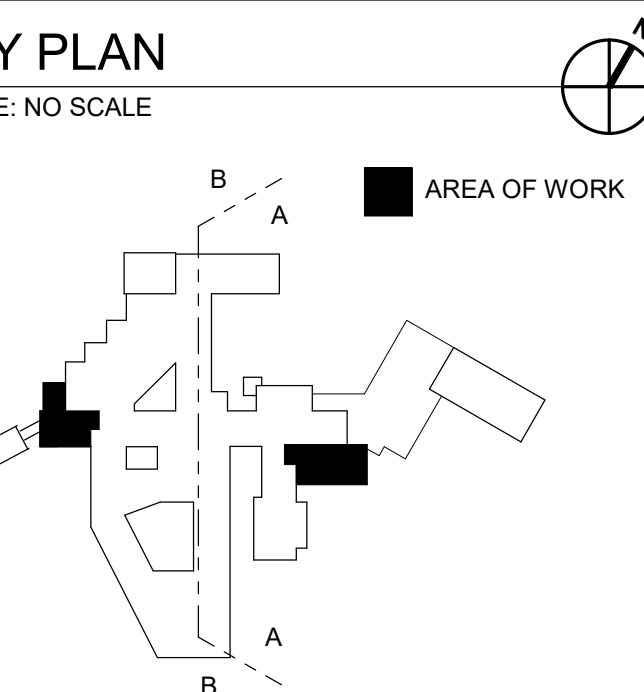
- KEY NOTES:**
- PROVIDE SIDEWALL SPRINKLER HEAD FOR THE STAIR.
  - EXISTING SPRINKLER HEAD TO REMAIN UNDISTURBED.
  - PROVIDE NEW SEMI-RECESSED QUICK RESPONSE SPRINKLER HEADS PER NEW LAYOUT.
  - PROVIDE NEW UPRIGHT SPRINKLER HEADS PER NEW LAYOUT.
  - PROVIDE NEW SEMI-RECESSED QUICK RESPONSE TAMPER RESISTENT SPRINKLER HEAD PER NEW LAYOUT.

**DEDUCTIVE ALTERNATES:**

★ DELETE ALL WORK ASSOCIATED WITH THE NEW SECOND FLOOR POLICE SUITE, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED DEMOLITION AND NEW CONSTRUCTION.

**LEGEND:**

●●●●● AREA OF WORK

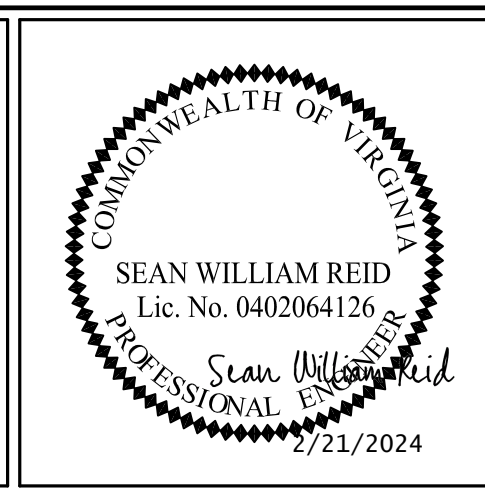


- WALL RATING LEGEND**
- SMOKE RESISTIVE HAZARDOUS AREA
  - 1 HR - FIRE BARRIER
  - 1 HR - SMOKE BARRIER
  - 2 HR - FIRE BARRIER
  - 2 HR - SMOKE BARRIER

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#	Revisions:	Date

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**PROJECT MANAGER**  
ACG Project Number 20-083

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

Drawing Title  
**SECOND FLOOR FIRE SUPPRESSION PLAN - AREA A AND B**

Location  
**WILKES-BARRE VA MEDICAL CENTER  
1111 EAST END BLVD  
WILKES-BARRE, PA 18711**

Project Title  
**EXPAND MENTAL HEALTH CLINIC**

Approved  
Date: FEBRUARY 21, 2024  
Checked: SWR  
Drawn: SMR/TB

VA PROJECT NUMBER  
693-352

Building Number  
# 1

Drawing Number  
**FX102AB**

Dwg 7 of 7



### PLUMBING SYMBOLS & ABBREVIATIONS

#### ANNOTATION ABBREVIATIONS

A/E	ARCHITECT/ENGINEER	F	FAHRENHEIT	O2	OXYGEN
AC	ABOVE CEILING	FA	FROM ABOVE	OC	ON CENTER
AD	AREA DRAIN	FB	FROM BELOW	OD	OUTSIDE DIAMETER
AFF	ABOVE FINISHED FLOOR	FBO	FURNISHED BY OTHERS	ODSN	OVERFLOW DOWNSPOUT NOZZLE
AG	AIR GAP	FCO	FLOOR CLEANOUT	OSD	OVERFLOW STORM DRAIN
AP	ACCESS PANEL	FCW	FILTERED COLD WATER	OR	OPERATING ROOM
AS	AUTOMATIC SPRINKLER	FD	FLOOR DRAIN	OVFL	OVERFLOW
AFG	ABOVE FINISHED GRADE	FDC	FIRE DEPARTMENT (HOSE) CONNECTION	PA	PASCAL
ASD	ADJUSTABLE SPEED DRIVE	FM	GENERAL CONTRACTOR	PC	PLUMBING CONTRACTOR
ASHRAE	AMERICAN SOCIETY HEATING, REFRIGERATING, AIR CONDITIONING ENGINEERS	FOP	FUEL OIL PUMP	PD	PRESSURE DROP
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	FOR	FUEL OIL RETURN	PDI	PLUMBING AND DRAINAGE INSTITUTE
ASPE	AMERICAN SOCIETY PLUMBING ENGINEERS	FOS	FUEL OIL SUPPLY	PG	PRESSURE GAUGE
ASR	AUTOMATIC SPRINKLER RISER	FOV	FUEL OIL VENT	PP	PLUMBING PUMP
AV	ACID VENT	FS	FLOOR SINK	PPM	PARTS PER MILLION
AW	ACID WASTE	FU	FIXTURE UNITS	PRS	PRESSURE REDUCING STATION
		G	GALLON	PRV	PRESSURE REDUCING VALVE
		GC	GENERAL CONTRACTOR	PSI	POUNDS PER SQUARE INCH
		GCO	GRADE CLEANOUTS	PSIA	POUNDS PER SQUARE INCH - ABSOLUTE
BAS	BUILDING AUTOMATION SYSTEM	GD	GARBAGE DISPOSAL	PSIG	POUNDS PER SQUARE INCH - GAUGE
BF	BELOW FLOOR	GPD	GALLONS PER DAY	PTRV	PRESSURE TEMPERATURE RELIEF VALVE
BFP	BACKFLOW PREVENTER	GPH	GALLONS PER HOUR	PW	POTABLE WATER
BG	BELOW GRADE	GPM	GALLONS PER MINUTE	RD	ROOF DRAIN
BH	BOOSTER HEATER	GPR	GAS PRESSURE REGULATOR	RDL	ROOF DRAIN LEADER
BHP	BREAK HORSEPOWER	GRS	GAS REGULATOR STATION	RL	ROOF LEADER
BJ	BETWEEN JOISTS	GT	GREASE TRAP	RO	REVERSE OSMOSIS
BOF	BOTTOM OF PIPE	CVTR	GAS VENT THROUGH ROOF	RWL	RAIN WATER LEADER
BSP	BLACK STEEL PIPE	GWH	GAS FIRED WATER HEATER		
BT	BATHTUB	H&CW	HOT AND COLD WATER		
BTUH	BRITISH THERMAL UNITS PER HOUR	HB	HOSE BIBB (INTERIOR)		
		HD	HUB DRAIN		
C	CELSIUS	HEX	HEAT EXCHANGER	SCFM	STANDARD CUBIC FOOT/MIN
CF	COMBINATION FIXTURE	HP	HORSEPOWER	SCW	SOFTENED COLD WATER
CGA	COMPRESSED GAS ASSOCIATION	HS	HAND SINK	SD	STORM DRAIN
CI	CAST IRON	HST	HOT WATER STORAGE TANK (DOMESTIC)	SDMH	STORM DRAIN MANHOLE
CO	CLEANOUT	HWB	HOT WATER BOILER	SP	SUMP PUMP
COND	CONDENSATE	HWC	HOT WATER CIRCULATING PUMP	SPR	SPRINKLER LINE
CP	CONDENSATE PUMP	HWP	HOT WATER PUMP	SQFT	SQUARE FOOT
CS	CLINICAL SINK	HYD	HYDRANT	SS	STAINLESS STEEL
CV	CONTROL VALVE			ST	STORAGE TANK
		ICW	INDUSTRIAL COLD WATER	TCV	TEMPERATURE CONTROL VALVE
DA	DENTAL COMPRESSED AIR	INV	INVERT	TD	TRENCH DRAIN
DCW	DOMESTIC COLD WATER	IPC	INTERNATIONAL PLUMBING CODE	TDH	TOTAL DYNAMIC HEAD
DHW	DOMESTIC HOT WATER	IRW	IRRIGATION WATER	TDL	TEMPERATURE DIFFERENTIAL
DHWR	DOMESTIC HOT WATER RETURN	IW	INDIRECT WASTE	TEMP	TEMPERATURE
DHWS	DOMESTIC HOT WATER SUPPLY	IWH	INSTANTANEOUS WATER HEATER	TMV	THERMOSTATIC MIXING VALVE
DF	DRINKING FOUNTAIN	IWR	INDUSTRIAL WATER RETURN	TP	TRAP PRIMER
DI	DEIONIZED WATER	IWS	INDUSTRIAL WATER SUPPLY	TSTAT	THERMOSTAT
DN	DOWN			TWR	TEMPERED WATER RETURN
DDE	DEPARTMENT OF ENERGY			TWS	TEMPERED WATER SUPPLY
DS	DOWNSPOUT	KW	KILOWATT	TYP	TYPICAL
DV	DENTAL VACUUM	KWHR	KILOWATT-HOUR	UPC	UNIFORM PLUMBING CODE
DW	DISHWASHER			V	SANITARY VENT
DWG	DRAWING	L/S	LITER PER SECOND	VAC	VACUUM
DWH	DOMESTIC WATER HEATER	LA	LABORATORY AIR	VB	VACUUM BREAKER
DWR	DRINKING WATER RETURN	LAV	LAVATORY	VCO	VACUUM CLEANER OUTLET
DWS	DRINKING WATER SUPPLY	LBS/HR	POUNDS PER HOUR	VP	VACUUM PUMP
DWV	DRAIN WASTE VENT	LCW	LABORATORY COLD WATER	VS	VENT STACK
		LHW	LABORATORY HOT WATER	VTR	VENT THROUGH ROOF
EC	ELECTRICAL CONTRACTOR	LNG	LIQUID NATURAL GAS		
EL	ELEVATION	LNX	LIQUID OXYGEN		
EMCS	ENERGY MONOSERRAT AND CENTRAL SYSTEM	LW	LOW WATER		
EPA	ENVIRONMENTAL PROTECTION AGENCY	LV	LABORATORY VACUUM		
		M	METER	WC	WASTE WATER CLOSET
EPACT	ENERGY POLICY ACT	MA	MEDICAL AIR	WCO	WALL CLEANOUT
ESC	ESCUTCHEON	MAV	MANUAL AIR VENT	WG	WATER GAUGE
ESH	EMERGENCY SHOWER	MBH	THOUSANDS OF BTU PER HOUR	WH	WATER HEATER
ET	EXPANSION TANK	MC	MECHANICAL CONTRACTOR	WHH	WATER HAMMER ARRESTOR
ETR	EXISTING TO REMAIN	MED	MEDICAL	WHD	WALL HYDRANT
EWC	ELECTRIC WATER COOLER	MER	MECHANICAL EQUIPMENT ROOM	WL	WATER LINE
EWH	ELECTRIC WATER HEATER	MH	MANHOLE	WM	WATER METER
EWS	EYEWASH STATION	MOU	MEMORANDUM OF UNDERSTANDING	WPD	WATER PRESSURE DROP
EX	EXISTING	MSB	MOP SINK BASIN	WS	WASTE STACK
		MV	MEDICAL VACUUM	YCO	YARD CLEANOUT
		N2	NITROGEN	YH	YARD HYDRANT
		N2O	NITROUS OXIDE		
		NC	NORMALLY CLOSED		
		NG	NATURAL GAS		
		NIC	NOT IN CONTRACT		
		NO	NORMALLY OPEN		
		NOM	NOMINAL		
		NPW	NON POTABLE WATER		
		NTS	NOT TO SCALE		

### PLUMBING SYMBOLS

	PIPE SLOPE ARROW
	FLOW ARROW
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	3-WAY CONTROL VALVE
	ANGLE GATE VALVE
	ANGLE GLOBE VALVE
	BALL VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	CIRCUIT SETTER
	CONTROL VALVE
	GATE VALVE
	GLOBE VALVE
	PLUG VALVE
	PRESSURE REDUCING VALVE (WATER)
	PRESSURE REDUCING VALVE (GAS)
	SAFETY RELIEF VALVE
	TWO POSITION CONTROL VALVE
	BACKFLOW PREVENTER
	HOSE BIBB / SILLCOCK
	AUTOMATIC AIR VENT
	PRESSURE GAUGE
	THERMOMETER
	FLOW SWITCH
	PRESSURE SWITCH
	TEMPERATURE SWITCH
	PIPE UNION
	TRENCH DRAIN
	WYE STRAINER
	WYE STRAINER W/DRAIN VALVE
	PUMP
	FLOOR DRAIN - ROUND OR SQUARE
	FLOOR CLEANOUT
	SUSPENDED CLEANOUT
	WALL CLEANOUT
	PIPE CAP
	PIPE TURNING DOWN
	PIPE TURNING UP
	TEE UP
	TEE DOWN
	DROP AND RUN
	DROP AND TURN
	TEE OFF TOP
	TEE OFF BOTTOM
	CROSS AND RISER
	PLAN 90° ELBOW
	PIPE TEE
	FLEXIBLE PIPE CONNECTOR
	PIPE ANCHOR
	PIPE GUIDES
	WATER METER

### PLUMBING SYMBOLS

PIPING SYSTEM	
	AW ACID WASTE
	CA COMPRESSED AIR
	CD CONDENSATE DRAIN
	CO2 CARBON DIOXIDE
	NG NATURAL GAS
	GW GREASE WASTE
	MA MEDICAL AIR
	N2 NITROGEN
	N2O NITROUS OXIDE
	OFD OVERFLOW STORM DRAIN
	OW OIL WASTE
	OX OXYGEN
	PD PUMP DISCHARGE
	PG PROPANE GAS
	ST STORM
	VAC VACUUM
	WAGD WASTE ANESTHETIC GAS DISPOSAL
	SAN SANITARY WASTE
	AV ACID VENT
	OV OIL VENT
	V SANITARY VENT
	DCW DOMESTIC COLD WATER
	DI DE-IONIZED WATER
	NFCW NONPOTABLE COLD WATER
	RO REVERSE OSMOSIS WATER
	SCW SOFTENED COLD WATER
	DHW DOMESTIC HOT WATER
	DHW 140 DOMESTIC HOT WATER (OTHER TEMP)
	DCWR DOMESTIC CW RECIRCULATION
	DHW R DOMESTIC HW RECIRCULATION

### ANNOTATION SYMBOLS

	NEW WORK KEYNOTE
	DEMOLITION KEYNOTE
<b>NEW</b>	BOLD TEXT INDICATES NEW ITEM
<i>EXISTING</i>	ITALICIZED TEXT INDICATES EXISTING ITEM
	RISER DESIGNATION LETTER
	RISER TAG
	RISER NUMBER
	CONNECT TO EXISTING
	LIMIT OF DEMOLITION
	NEW PLUMBING EQUIPMENT MARK
	EXISTING PLUMBING EQUIPMENT MARK

### DEDUCTIVE ALTERNATES

DELETE ALL WORK ASSOCIATED WITH THE NEW SECOND FLOOR POLICE SUITE INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED DEMOLITION AND NEW CONSTRUCTION.

- ### PLUMBING DEMOLITION GENERAL NOTES
- VERIFY EXISTING CONDITIONS PRIOR TO BEGINNING WORK. NOTIFY COR REGARDING CONFLICTS BEFORE PROCEEDING WITH WORK.
  - REMOVED ITEMS REMAIN PROPERTY OF GOVERNMENT UNTIL COR DETERMINES THAT THEY ARE NOT REQUIRED. REMOVE FROM SITE ITEMS NOT BEING RETAINED BY GOVERNMENT OR REINSTALLED AS PART OF THIS WORK.
  - DO NOT DISTURB ITEMS NOT INDICATED FOR DEMOLITION.
  - VERIFY SIZE AND LOCATION OF EXISTING UTILITIES PRIOR TO START OF DEMOLITION. RELOCATE, REMOVE AND ADJUST MECHANICAL AND ELECTRICAL ITEMS AS NECESSARY TO COORDINATE WITH NEW WORK.
  - AFTER DEMOLITION IS COMPLETE, PATCH AND REPAIR FINISHES TO MATCH EXISTING ADJACENT CONDITIONS.
  - COORDINATE DEMOLITION WITH COR. SUBMIT SHUTDOWN PLAN AND SCHEDULE TO COR FOR REVIEW AND APPROVAL.
  - PROTECT EXISTING UTILITIES TO REMAIN FROM DAMAGE DURING DEMOLITION. REPAIR UTILITIES AND SERVICES DAMAGED AT NO ADDITIONAL COST.
  - TEMPORARILY MOVE OR TAKE EQUIPMENT OUT OF SERVICE AS NECESSARY TO COMPLETE WORK.
  - SAWCUT CONCRETE FLOOR AS REQUIRED FOR DEMOLITION WORK INDICATED. COORDINATE WITH NEW PLUMBING WORK AND WORK OF OTHER TRADES.

- ### PLUMBING GENERAL NOTES
- WORK SHALL CONFORM TO APPLICABLE LOCAL, STATE, AND NATIONAL CODES AND APPLICABLE VA STANDARDS.
  - INSTALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS.
  - OBTAIN AND PAY FOR PERMITS, FEES, AND INSPECTIONS REQUIRED FOR THIS WORK.
  - PROVIDE NEW MATERIALS, EQUIPMENT AND PRODUCTS INCORPORATED IN THE WORK, OF A SUITABLE GRADE FOR THE PURPOSES INTENDED.
  - EQUIPMENT OR MATERIAL DEVIATIONS FROM INDICATED CONTRACT REQUIREMENTS ARE SUBJECT TO THE APPROVAL OF THE COR. SUBMIT PROPOSED EQUIPMENT DEVIATIONS THAT ARE SIMILAR BOTH IN QUALITY AND CAPACITY TO THAT EQUIPMENT SPECIFIED, AS SOLELY DETERMINED BY THE COR.
  - INSTALL EQUIPMENT AS INDICATED, ALLOWING FOR SUFFICIENT ACCESS AND CLEARANCE SPACE FOR EQUIPMENT MAINTENANCE, REPAIRS, AND REPLACEMENT.
  - AT EACH PLUMBING FIXTURE WITH QUICK CLOSING VALVE, PROVIDE A PISTON TYPE WATER HAMMER ARRESTOR SIZED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
  - SANITARY DRAINAGE PIPING INDICATED IS LOCATED BELOW FLOOR SLAB OR WITHIN WALLS UNLESS NOTED OTHERWISE. SANITARY VENT PIPING INDICATED IS ABOVE THE CEILING OR WITHIN WALLS UNLESS NOTED OTHERWISE.
  - SUPPORT PIPING SYSTEM AS REQUIRED BY APPLICABLE LOCAL, STATE, AND NATIONAL CODES ALONG WITH SPECIFICATIONS, VA STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
  - FIRESTOP AND SEAL PIPING PENETRATIONS THROUGH WALLS AND FLOORS EQUAL TO THE RATING OF WALLS AND FLOORS.
  - TEST PLUMBING SYSTEM IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND NATIONAL CODES AND APPLICABLE VA STANDARDS.
  - COORDINATE PLUMBING PIPING WITH WORK OF OTHER DISCIPLINES.
  - DISINFECT DOMESTIC WATER SYSTEM IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND NATIONAL CODES AND APPLICABLE VA STANDARDS.
  - PROVIDE SHUT OFF VALVES AT BRANCH PIPING TO FIXTURES.
  - COORDINATE PLUMBING WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION. COORDINATE ROUTING OF PIPING WITH EXISTING CONDITIONS.
  - PROVIDE ALL NECESSARY OFFSETS, TEES, ELBOWS, ETC. FOR A COMPLETE AND COORDINATED WORKING PLUMBING SYSTEM. DRAWING PLANS, SCHEMATICS, AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF PIPING SYSTEMS.
  - CONTRACTOR SHALL COORDINATE ANY PLUMBING SYSTEM REQUIRED SHUTDOWN WITH THE COR 2 WEEK IN ADVANCE AND CONFIRM 48 HOURS PRIOR.
  - PATCH, PAINT AND CLEAN SURFACES SUSTAINING DAMAGE ASSOCIATED WITH PLUMBING WORK OF THIS CONTRACT, UNLESS NOTED OTHERWISE.
  - INSTALL ESCUTCHEONS IN ALL PLACES WHERE PIPING PENETRATES A WALL IN AN EXPOSED LOCATION.
  - DO NOT INSTALL PIPES ABOVE TELECOM OR ELECTRICAL EQUIPMENT.

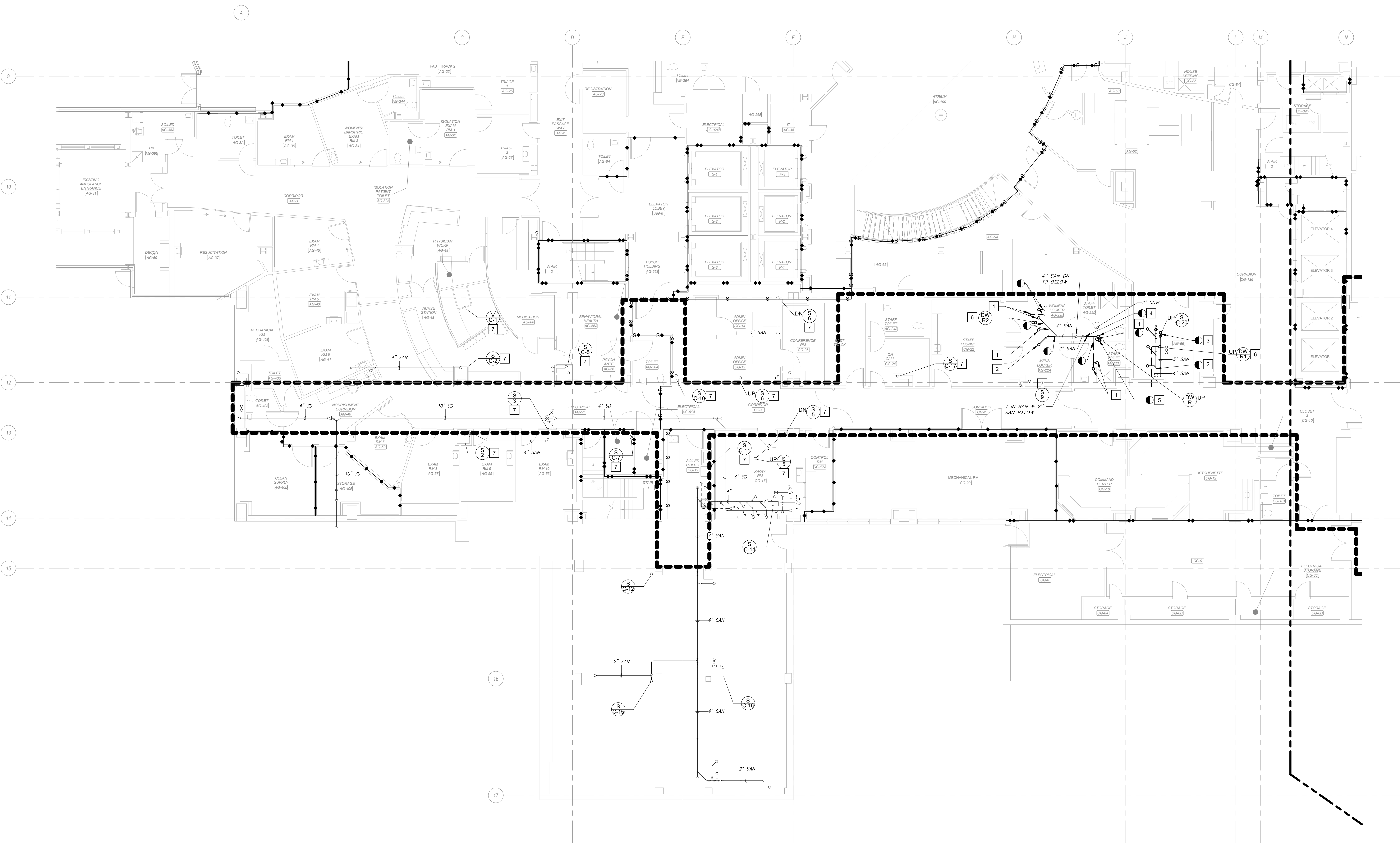
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100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date	<b>CONSULTANTS:</b>  		<b>PROJECT MANAGER</b> Headquarters: <b>Apogee Consulting Group, P.A.</b> 1151 Kildaire Farm Road, Suite 120 Cary, North Carolina 27511 www.acg-pa.com 919-858-7420	Office of <b>Construction and Facilities Management</b> U.S. Department of Veterans Affairs	Drawing Title <b>PLUMBING GENERAL INFORMATION</b>	Project Title <b>EXPAND MENTAL HEALTH CLINIC</b>	VA PROJECT NUMBER 693-352
								Location <b>WILKES-BARRE VA MEDICAL CENTER</b> 1111 EAST END BLVD WILKES-BARRE, PA 18711	Approved Date FEBRUARY 21, 2024

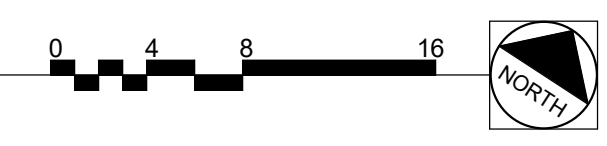








**1 GROUND FLOOR PLUMBING DEMOLITION PLAN - AREA B**  
 Scale: 1/8" = 1'-0"



**SHEET NOTES:**

- A. DEMOLITION WORK SHALL BE PERFORMED SUCH THAT ALL PIPES, HANGERS, SUPPORTS, AND VALVES IN SCOPE ARE REMOVED COMPLETELY TO MAINS. REMOVE ALL ITEMS TO ENSURE NOTHING IS ABANDONED IN PLACE.
- B. NO DEAD ENDS SHALL REMAIN. THE MAXIMUM LENGTH OF DEAD ENDS SHALL BE TWO PIPE DIAMETERS FROM THE BRANCH, RISER, OR MAIN.
- C. PLUMBING CONTRACTOR TO BE REMOVING CEILING DIRECTLY BELOW WORK AND NOT TO BE REMOVING THE ENTIRE CEILING GRID IN THE PROCESS.

**KEY NOTES:**

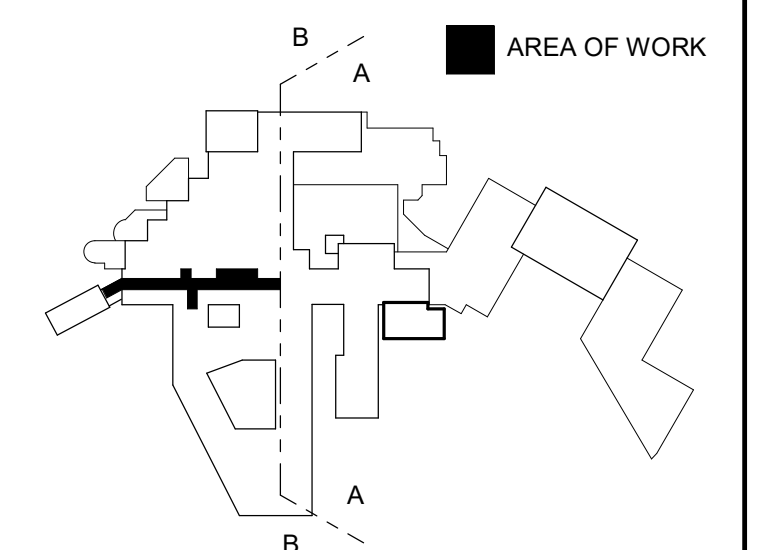
- 1 DEMOLISH SANITARY PIPING SERVING FIXTURES ABOVE TO LIMITS OF DEMOLITION AND CAP.
- 2 DEMOLISH SANITARY PIPING SERVING FIXTURES ABOVE TO LIMITS OF DEMOLITION AND PREPARE TO RECONNECT.
- 3 DEMOLISH SANITARY RISER FROM SECOND FLOOR TO BELOW THE FIRST FLOOR AND PREPARE TO RECONNECT. INSTALL NEW PIPING BEFORE DEMOLITION.
- 4 DEMOLISH 2" SAN SERVING FIXTURES ABOVE TO LIMITS OF DEMOLITION AND CAP.
- 5 DEMOLISH COLD/HOT WATER RISER TO THE LIMITS OF DEMOLITION. INSTALL NEW RISERS BEFORE DEMOLITION.
- 6 DEMOLISH COLD/HOT WATER SERVING BATHROOM ABOVE BACK TO MAIN AND CAP.
- 7 EXISTING RISER TO REMAIN.

**LEGEND:**

■■■■■■ AREA OF WORK

**KEY PLAN**

SCALE: NO SCALE



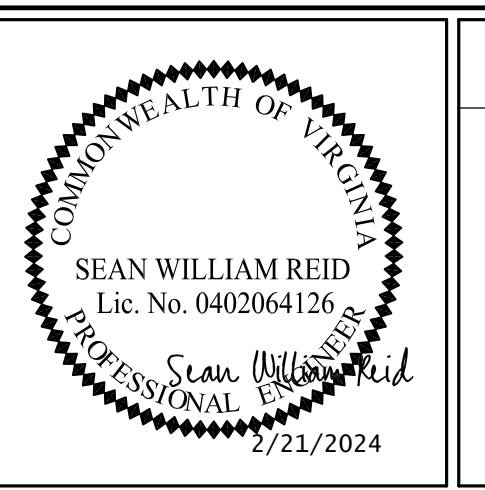
**WALL RATING LEGEND**

- SMOKE RESISTIVE HAZARDOUS AREA
- 1 HR - FIRE BARRIER
- 1 HR - SMOKE BARRIER
- 2 HR - FIRE BARRIER
- 2 HR - SMOKE BARRIER

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 100% CONSTRUCTION DOCUMENTS**

#	Revisions:	Date

**CONSULTANTS:**



**PROJECT MANAGER**  
 Headquarters:  
**Apogee Consulting Group, P.A.**  
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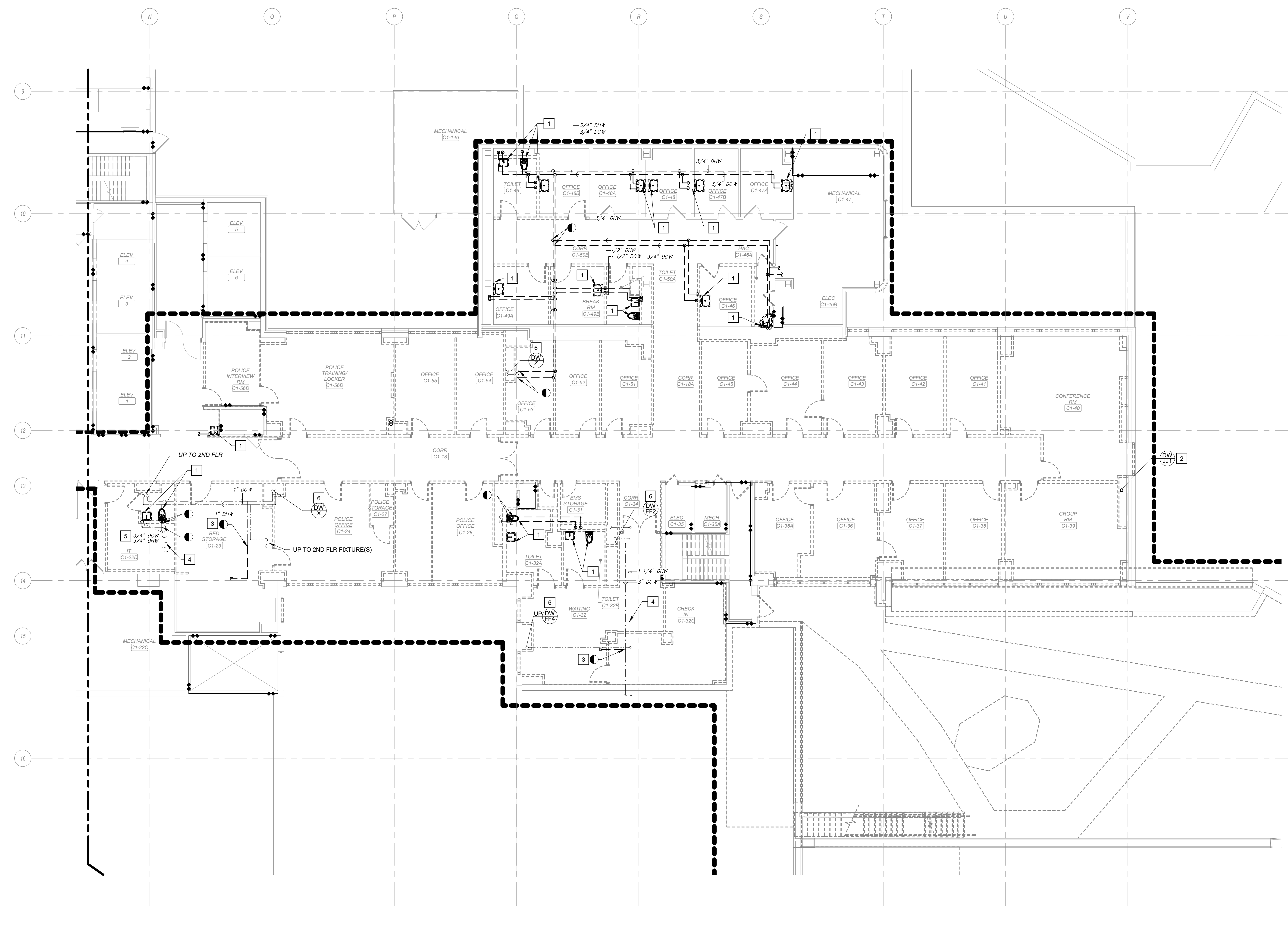
Office of  
 Construction  
 and Facilities  
 Management  
**VA** U.S. Department  
 of Veterans Affairs

Drawing Title  
**GROUND FLOOR PLUMBING  
 DEMOLITION PLAN - AREA B**  
 Location  
**WILKES-BARRE VA MEDICAL CENTER  
 1111 EAST END BLVD  
 WILKES-BARRE, PA 18711**

Project Title  
**EXPAND MENTAL HEALTH  
 CLINIC**  
 Approved  
 Date  
 FEBRUARY 21, 2024  
 Checked  
 SWR  
 Drawn  
 SMR/TB

VA PROJECT NUMBER  
 693-352  
 Building Number  
 # 1  
 Drawing Number  
**PD100B**  
 Dwg 3 of 22

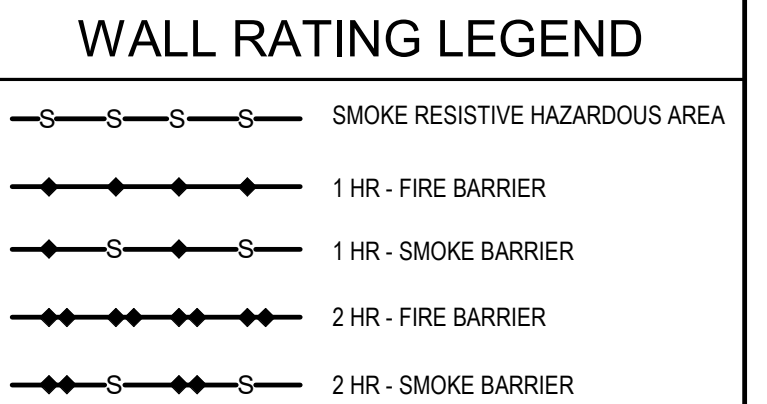
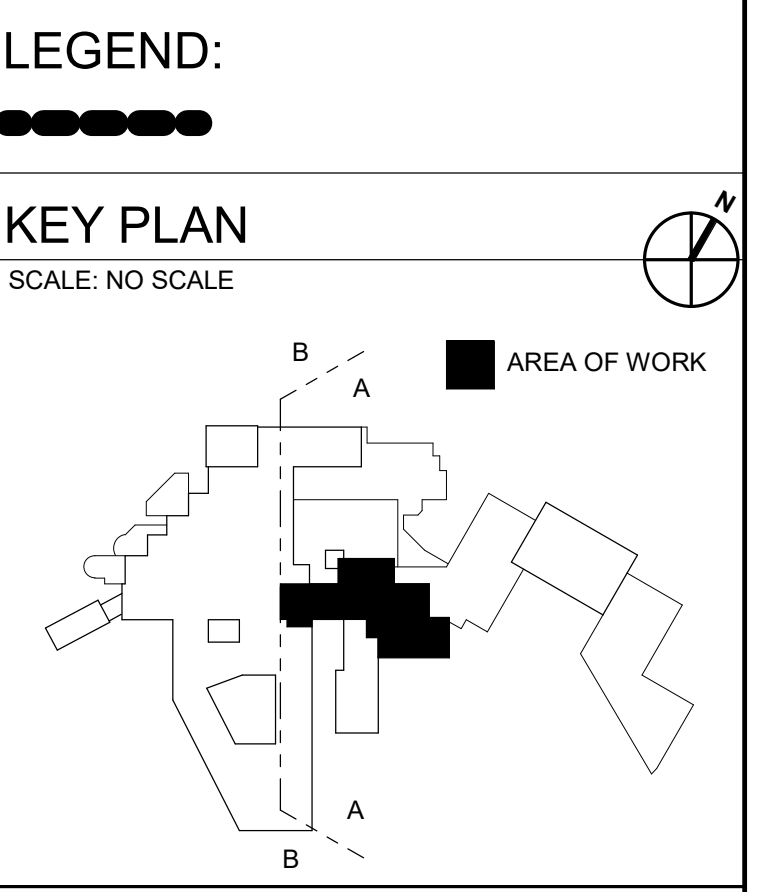




**1** FIRST FLOOR DOMESTIC WATER DEMOLITION PLAN - AREA A  
Scale: 1/8" = 1'-0"

- SHEET NOTES:**
- A. DEMOLITION WORK SHALL BE PERFORMED SUCH THAT ALL PIPES, HANGERS, SUPPORTS, AND VALVES IN SCOPE ARE REMOVED COMPLETELY TO MAINS. REMOVE ALL ITEMS TO ENSURE NOTHING IS ABANDONED IN PLACE.
  - B. NO DEAD ENDS SHALL REMAIN. THE MAXIMUM LENGTH OF DEAD ENDS SHALL BE TWO PIPE DIAMETERS FROM THE BRANCH, RISER, OR MAIN.
  - C. DEMOLISH ALL ABANDONED PIPING DISCOVERED DURING DEMOLITION.

- KEY NOTES:**
- 1 DEMOLISH FIXTURE AND ASSOCIATED DOMESTIC COLD AND/OR HOT WATER PIPING.
  - 2 DEMOLISH DOMESTIC HOT WATER FROM ABOVE IN CHASE. CAP AT FLOOR/CEILING PENETRATIONS.
  - 3 DEMOLISH ABANDONED DOMESTIC WATER PIPING TO THE LIMITS OF DEMOLITION AND CAP.
  - 4 DOMESTIC WATER PIPING TO REMAIN.
  - 5 DEMOLISH ALL ABANDONED DOMESTIC WATER PIPING IN THIS ROOM.
  - 6 EXISTING RISER TO REMAIN.

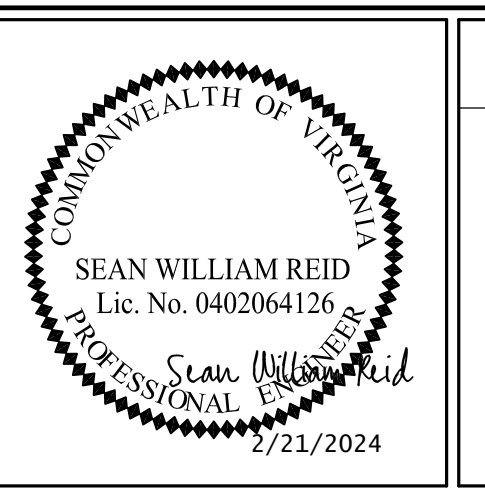


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100% CONSTRUCTION DOCUMENTS**

#	Revisions:	Date

**CONSULTANTS:**

Headquarters:



**PROJECT MANAGER**  
ACG Project Number 20-083  
**APOGEE**  
Engineers | Architects  
www.acg-pa.com 919-858-7420

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

Drawing Title  
**FIRST FLOOR DOMESTIC WATER DEMOLITION PLAN - AREA A**  
Location  
**WILKES-BARRE VA MEDICAL CENTER  
1111 EAST END BLVD  
WILKES-BARRE, PA 18711**

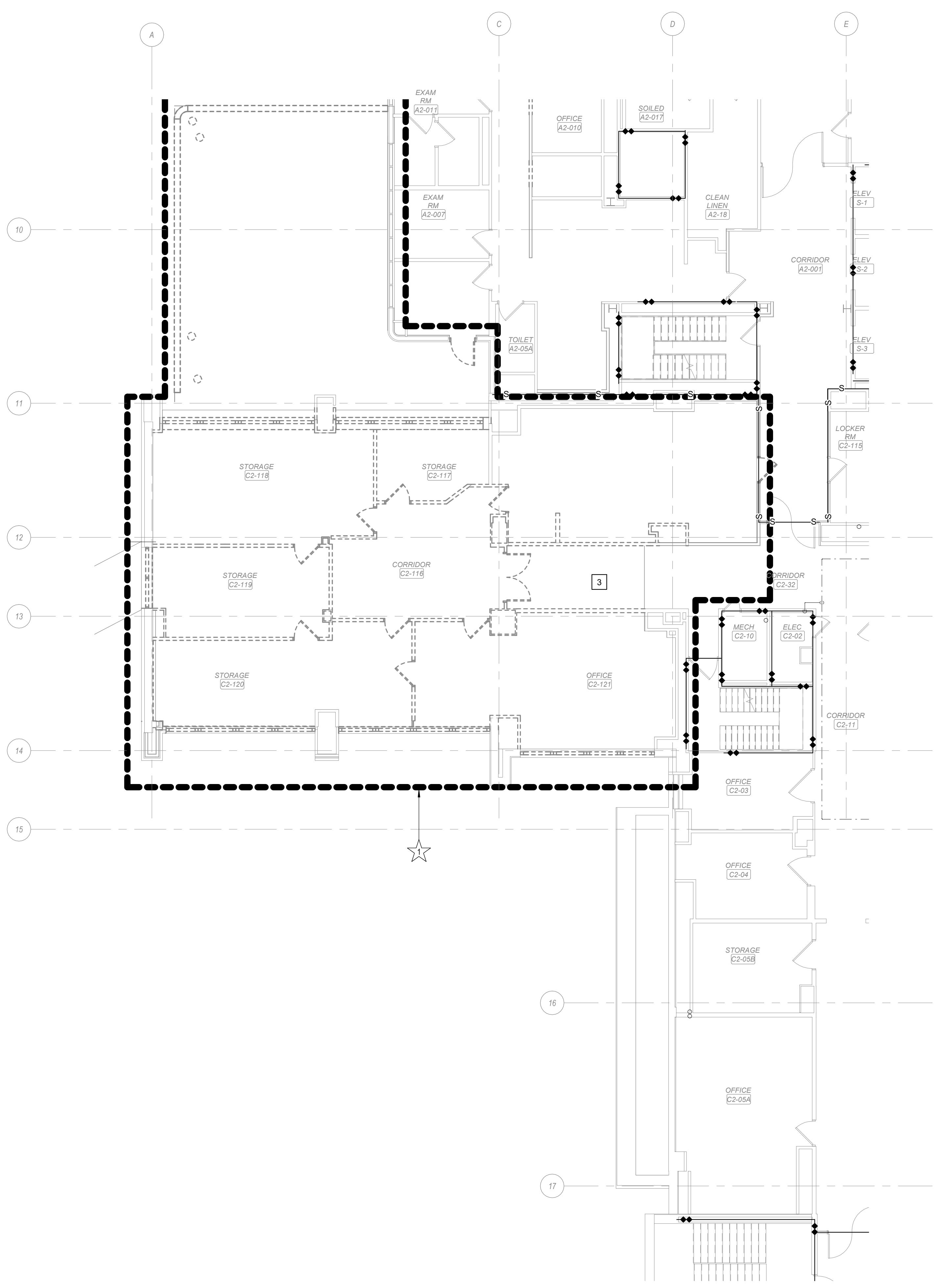
Project Title  
**EXPAND MENTAL HEALTH CLINIC**  
Approved  
Date  
**FEBRUARY 21, 2024**  
Checked  
**SWR**  
Drawn  
**SMR/TB**

VA PROJECT NUMBER  
**693-352**  
Building Number  
**# 1**  
Drawing Number  
**PD101A**  
Dwg 4 of 22

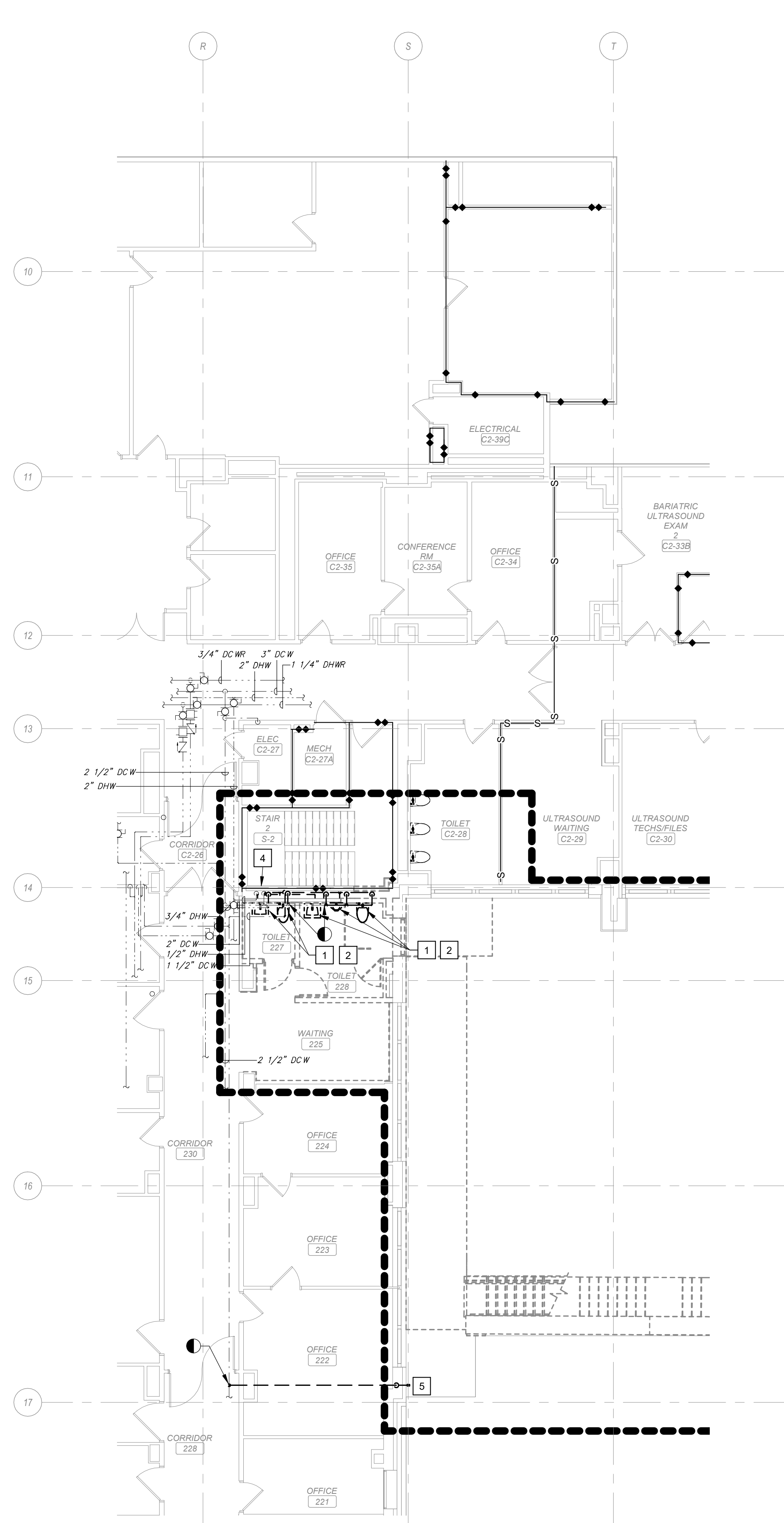




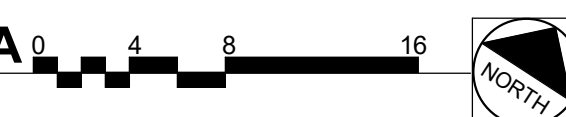




**2 SECOND FLOOR DOMESTIC WATER DEMOLITION PLAN - AREA B**  
Scale: 1/8" = 1'-0"



**1 SECOND FLOOR DOMESTIC WATER DEMOLITION PLAN - AREA A**  
Scale: 1/8" = 1'-0"



**SHEET NOTES:**

- A. DEMOLITION WORK SHALL BE PERFORMED SUCH THAT ALL PIPES, HANGERS, SUPPORTS, AND VALVES IN SCOPE ARE REMOVED COMPLETELY TO MAINS. REMOVE ALL ITEMS TO ENSURE NOTHING IS ABANDONED IN PLACE.
- B. NO DEAD ENDS SHALL REMAIN. THE MAXIMUM LENGTH OF DEAD ENDS SHALL BE TWO PIPE DIAMETERS FROM THE BRANCH, RISER, OR MAIN.
- C. DEMOLISH ALL ABANDONED PIPING DISCOVERED DURING DEMOLITION.

**KEY NOTES:**

- 1 DEMOLISH FIXTURE AND ASSOCIATED DOMESTIC COLD AND/OR HOT WATER PIPING.
- 2 DEMOLISH DOMESTIC COLD AND/OR HOT WATER PIPING AS INDICATED AND PREPARE TO RECONNECT.
- 3 NO DOMESTIC WATER DEMOLITION WORK IN THIS AREA.
- 4 EXISTING RISER TO REMAIN.
- 5 DEMOLISH FIXTURE AND ASSOCIATED DOMESTIC COLD WATER PIPING.

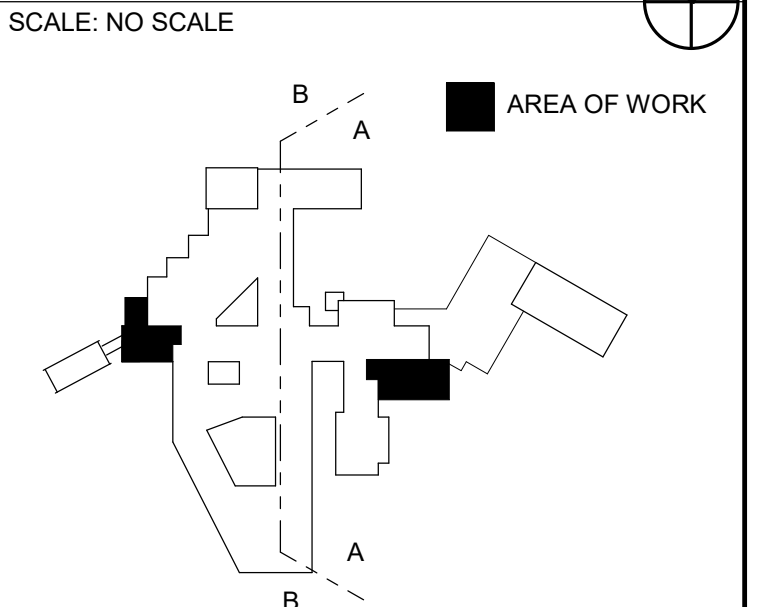
**DEDUCTIVE ALTERNATES:**

★ DELETE ALL WORK ASSOCIATED WITH THE NEW SECOND FLOOR POLICE SUITE, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED DEMOLITION AND NEW CONSTRUCTION.

**LEGEND:**

■■■■■■ AREA OF WORK

**KEY PLAN**



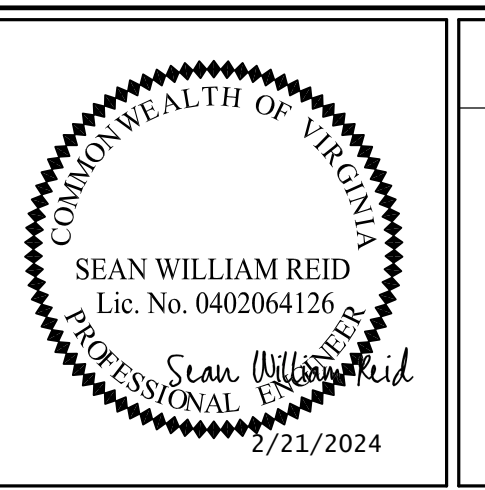
**WALL RATING LEGEND**

- SMOKE RESISTIVE HAZARDOUS AREA
- 1 HR - FIRE BARRIER
- 1 HR - SMOKE BARRIER
- 2 HR - FIRE BARRIER
- 2 HR - SMOKE BARRIER

**FULLY SPRINKLERED  
100% CONSTRUCTION DOCUMENTS**

#	Revisions:	Date

**CONSULTANTS:**



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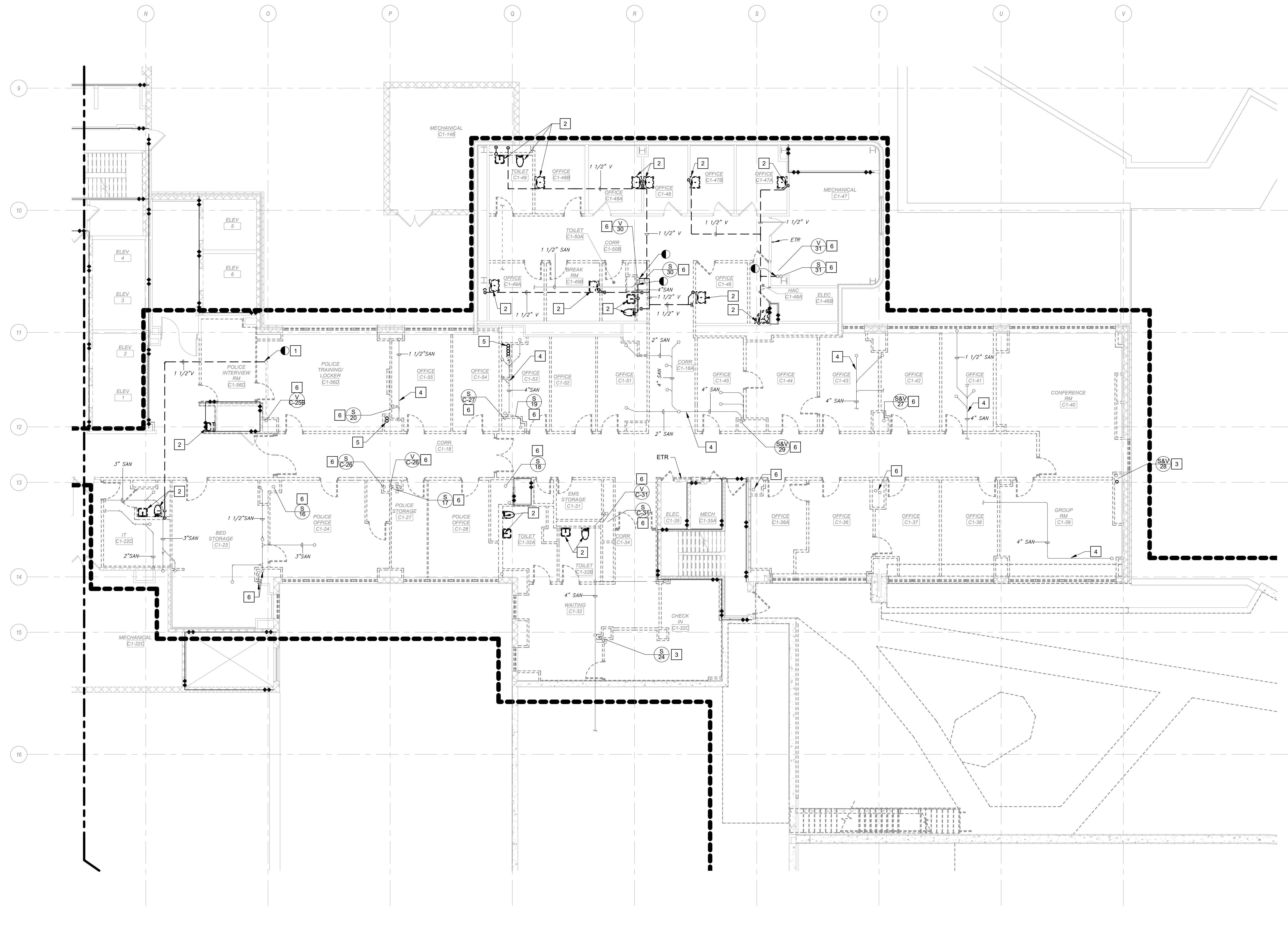
Office of Construction and Facilities Management  
**VA** U.S. Department of Veterans Affairs

Drawing Title  
**SECOND FLOOR DOMESTIC WATER DEMOLITION - AREAS A AND B**  
Location  
**WILKES-BARRE VA MEDICAL CENTER  
1111 EAST END BLVD  
WILKES-BARRE, PA 18711**

Project Title  
**EXPAND MENTAL HEALTH CLINIC**  
Approved  
Date  
FEBRUARY 21, 2024  
Checked  
SWR  
Drawn  
SMR/TB

VA PROJECT NUMBER  
693-352  
Building Number  
# 1  
Drawing Number  
**PD102AB**  
Dwg 6 of 22





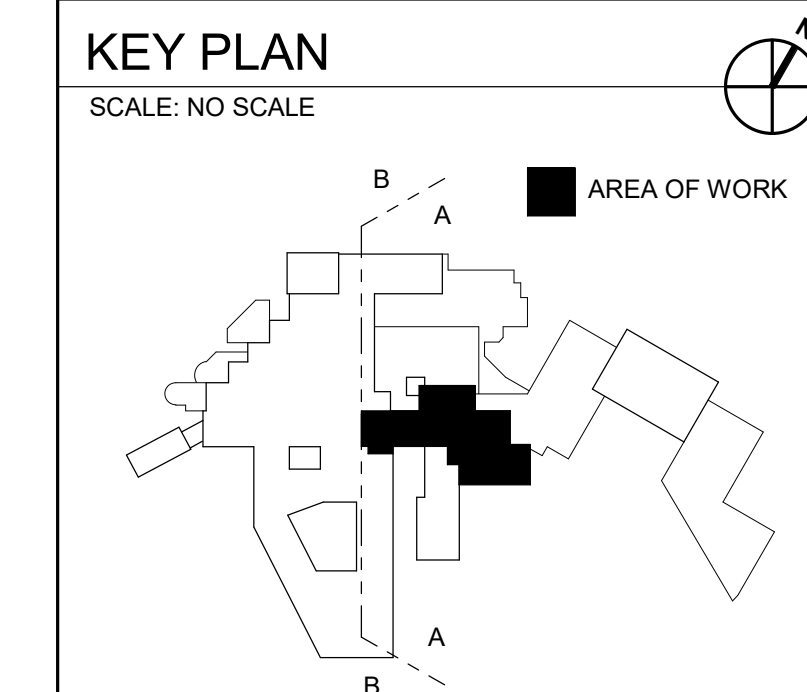
**SHEET NOTES:**

- A. SLEEVE ALL PENETRATIONS. FIRESTOP AND SEAL WATER TIGHT.
- B. UNLESS NOTED OTHERWISE, THE SIZE OF FIXTURE RUNOUTS IS TO BE WHAT IS LISTED IN THE PLUMBING FIXTURE SCHEDULE.
- C. DEMOLISH ALL ABANDONED PIPING DISCOVERED DURING DEMOLITION.

**KEY NOTES:**

- 1 DEMOLISH ABANDONED VENT AS INDICATED AND CAP.
- 2 DEMOLISH PLUMBING FIXTURE AND ASSOCIATED SANITARY AND VENT PIPING TO THE LIMIT OF DEMOLITION AND CAP.
- 3 DEMOLISH EXISTING SANITARY RISER FROM FIRST FLOOR CEILING SPACE TO BELOW THE FIRST FLOOR AS NEEDED TO ACCOMMODATE THE NEW CHASE LAYOUT. INSTALL NEW PIPING BEFORE DEMOLITION.
- 4 SANITARY PIPING SERVING SECOND FLOOR FIXTURES TO REMAIN.
- 5 DEMOLISH PNEUMATIC TUBE RISERS ON 1ST FLOOR.
- 6 EXISTING RISER TO REMAIN.

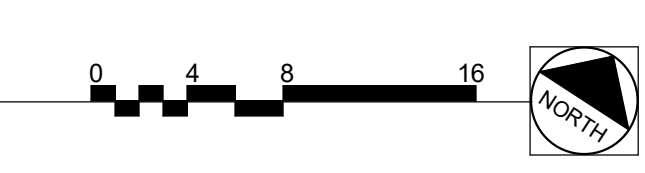
**LEGEND:**  
 AREA OF WORK



**WALL RATING LEGEND**

- SMOKE RESISTIVE HAZARDOUS AREA
- 1 HR - FIRE BARRIER
- 1 HR - SMOKE BARRIER
- 2 HR - FIRE BARRIER
- 2 HR - SMOKE BARRIER

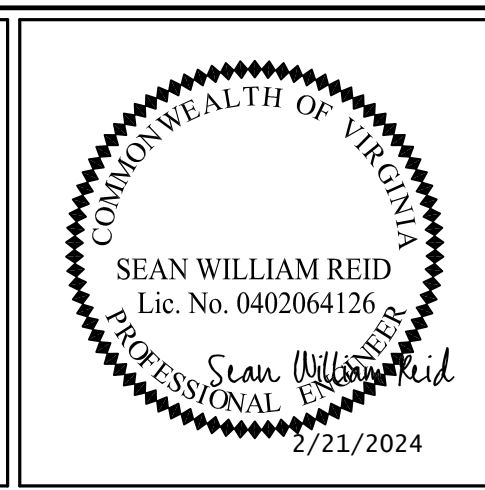
**1 FIRST FLOOR PLUMBING DEMOLITION PLAN - AREA A**  
 Scale: 1/8" = 1'-0"



**FULLY SPRINKLERED**  
**100% CONSTRUCTION DOCUMENTS**

#	Revisions:	Date

**CONSULTANTS:**



**PROJECT MANAGER**  
 ACG Project Number 20-083  
**Apogee Consulting Group, P.A.**  
 Headquarters:  
 1151 Kildaire Farm Road, Suite 120  
 Cary, North Carolina 27511  
 www.acg-pa.com 919-858-7420

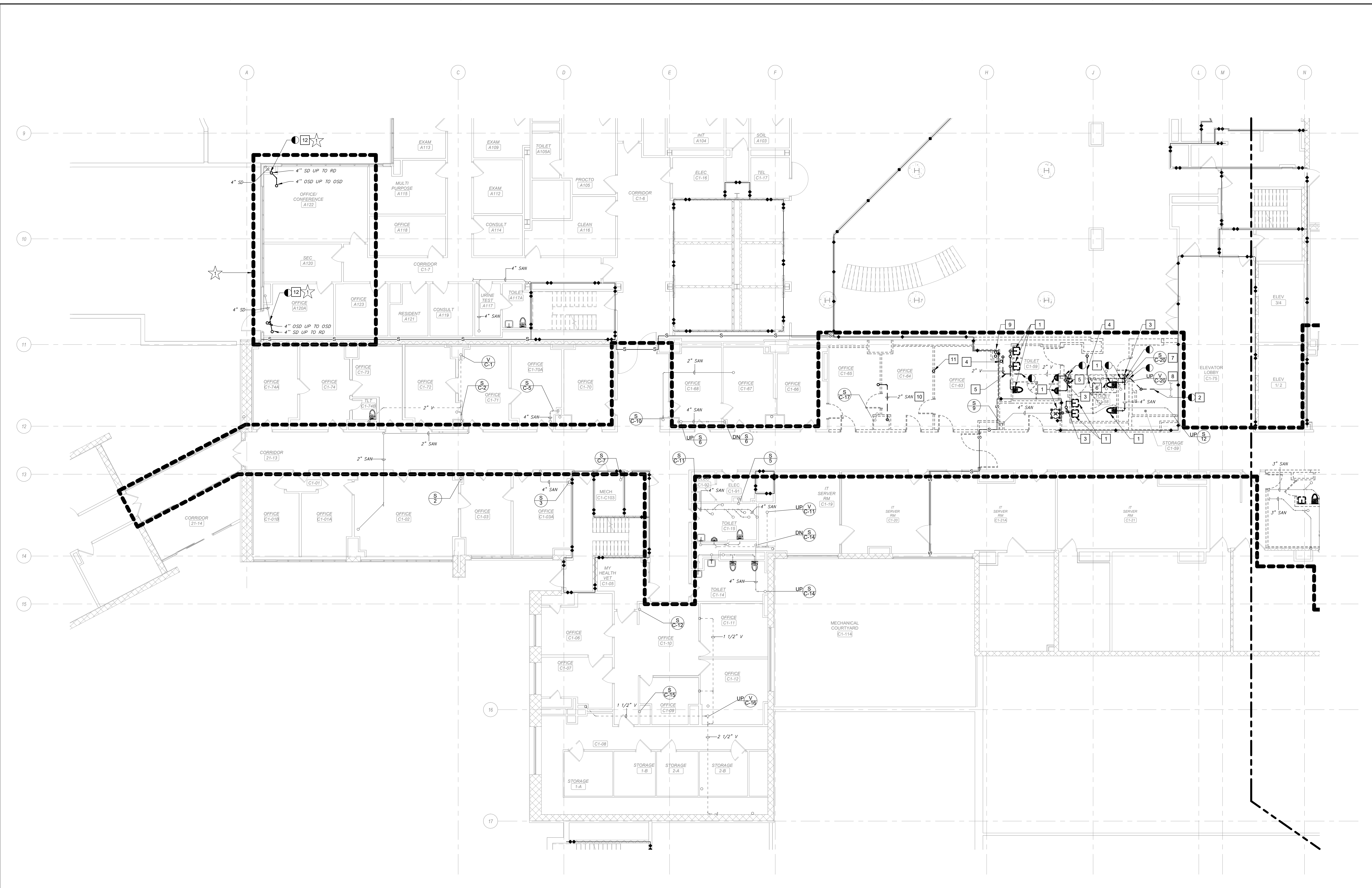
Office of Construction and Facilities Management  
 U.S. Department of Veterans Affairs

Drawing Title  
**FIRST FLOOR PLUMBING DEMOLITION PLAN - AREA A**  
 Location  
**WILKES-BARRE VA MEDICAL CENTER**  
 1111 EAST END BLVD  
 WILKES-BARRE, PA 18711

Project Title  
**EXPAND MENTAL HEALTH CLINIC**  
 Approved  
 Date FEBRUARY 21, 2024  
 Checked SWR  
 Drawn SMR/TB

VA PROJECT NUMBER 693-352  
 Building Number # 1  
 Drawing Number **PD111A**  
 Dwg 7 of 22





**SHEET NOTES:**

- DEMOLITION WORK SHALL BE PERFORMED SUCH THAT ALL PIPES, HANGERS, SUPPORTS, AND VALVES IN SCOPE ARE REMOVED COMPLETELY TO MAINS. REMOVE ALL ITEMS TO ENSURE NOTHING IS ABANDONED IN PLACE.
- DEMOLISH ALL ABANDONED PIPING DISCOVERED DURING DEMOLITION.

**KEY NOTES:**

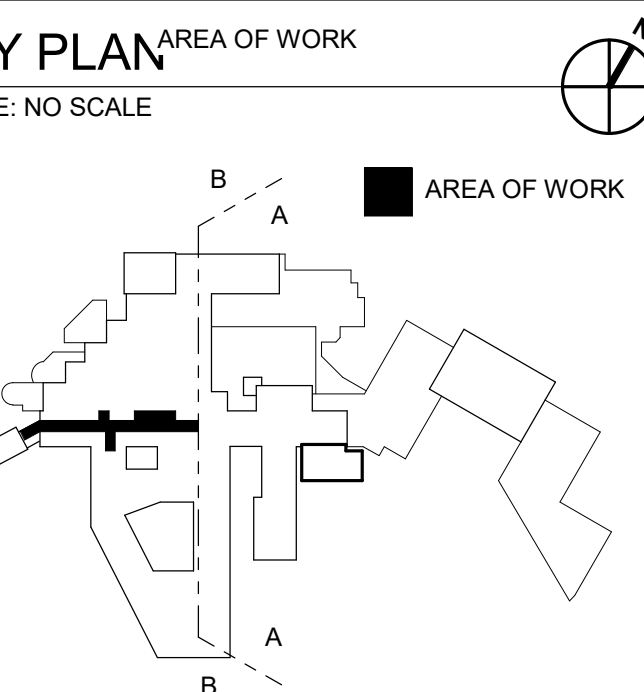
- DEMOLISH PLUMBING FIXTURE AND ASSOCIATED SANITARY AND VENT PIPING TO THE LIMIT OF DEMOLITION AND CAP OR PREPARE TO RECONNECT AS REQUIRED BY NEW LAYOUT.
- EXISTING CHILLED WATER DRAINAGE PIPE TO BE DISCONNECTED FROM SANITARY STACK C-20. CONNECTIONS TO MAIN CHILLED WATER PIPING TO REMAIN.
- DEMOLISH SANITARY PIPING DOWN TO GROUND FLOOR AND CAP.
- DEMOLISH ABANDONED SANITARY PIPING.
- DEMOLISH VENT PIPING TO THE LIMIT OF DEMOLITION AND CAP.
- SANITARY PIPING SERVING SECOND FLOOR FIXTURES TO REMAIN.
- DEMOLISH SANITARY RISER FROM SECOND FLOOR TO BELOW THE FIRST FLOOR. INSTALL NEW PIPING BEFORE DEMOLITION.
- DEMOLISH VENT RISER FROM SECOND FLOOR TO BELOW THE FIRST FLOOR. INSTALL NEW PIPING BEFORE DEMOLITION.
- DEMOLISH PNEUMATIC TUBE RISERS ON 1ST FLOOR.
- DEMOLISH ABANDONED SANITARY PIPING TO PREVIOUSLY REMOVED LAVATORY. CAP AT RISER.
- DEMOLISH VACUUM RISER ON FIRST FLOOR.
- DEMOLISH STORM PIPING AS INDICATED AND PREPARE TO RECONNECT.

**DEDUCTIVE ALTERNATES:**

★ DELETE ALL WORK ASSOCIATED WITH THE NEW SECOND FLOOR POLICE SUITE, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED DEMOLITION AND NEW CONSTRUCTION.

**LEGEND:**

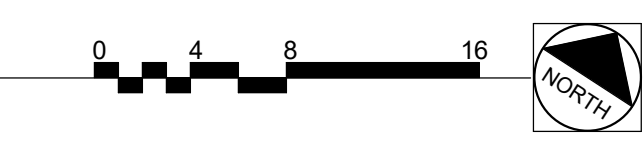
■■■■■■ AREA OF WORK



**WALL RATING LEGEND**

- SMOKE RESISTIVE HAZARDOUS AREA
- 1 HR - FIRE BARRIER
- ◆-◆-◆-◆ 1 HR - SMOKE BARRIER
- 2 HR - FIRE BARRIER
- ▲-▲-▲-▲ 2 HR - SMOKE BARRIER

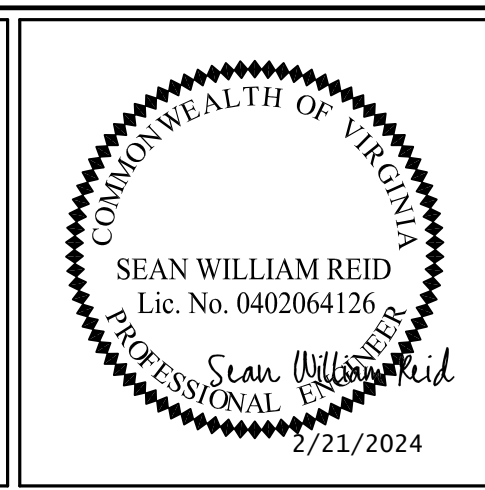
**1 FIRST FLOOR PLUMBING DEMOLITION PLAN - AREA B**  
Scale: 1/8" = 1'-0"



**FULLY SPRINKLERED**  
**100% CONSTRUCTION DOCUMENTS**

#	Revisions:	Date

**CONSULTANTS:**



**PROJECT MANAGER**  
ACG Project Number 20-083

Headquarters:  
**Apogee Consulting Group, P.A.**  
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Cary, North Carolina 27511

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Engineers | Architects  
www.acg-pa.com 919-858-7420

Office of  
Construction  
and Facilities  
Management

**VA** U.S. Department  
of Veterans Affairs

Drawing Title  
**FIRST FLOOR PLUMBING DEMOLITION  
PLAN - AREA B**

Location  
**WILKES-BARRE VA MEDICAL CENTER  
1111 EAST END BLVD  
WILKES-BARRE, PA 18711**

Project Title  
**EXPAND MENTAL HEALTH  
CLINIC**

Approved

Date  
FEBRUARY 21, 2024

Checked  
SWR

Drawn  
SMR/TB

VA PROJECT NUMBER  
693-352

Building Number  
# 1

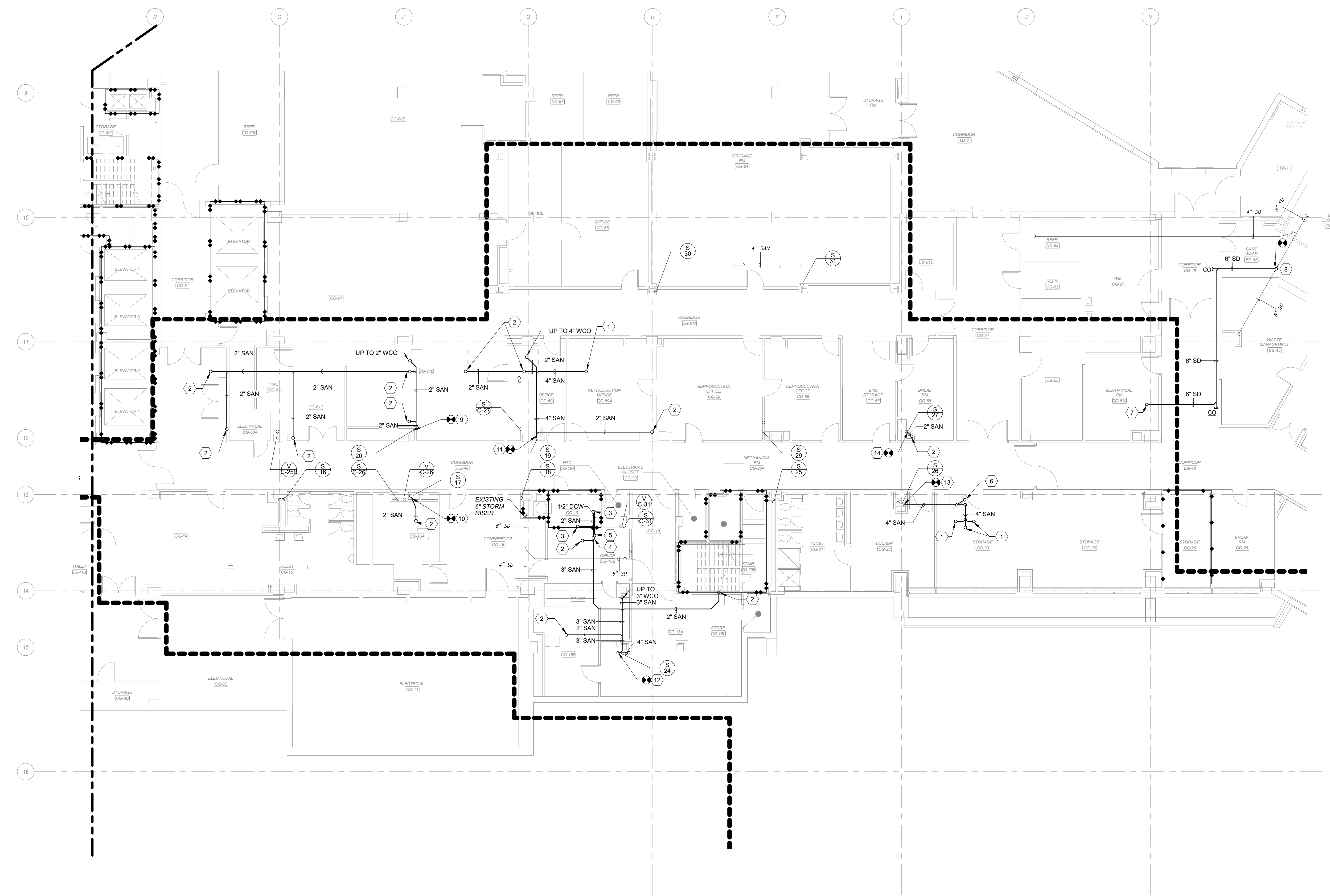
Drawing Number  
**PD111B**

Dwg 8 of 22

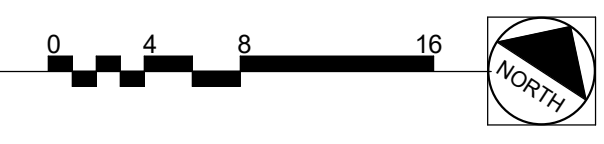








**1 GROUND FLOOR PLUMBING PLAN - AREA A**  
Scale: 1/8" = 1'-0"



**SHEET NOTES:**

- A. SLEEVE ALL PENETRATIONS. FIRESTOP AND SEAL WATER TIGHT.
- B. UNLESS NOTED OTHERWISE, THE SIZE OF FIXTURE RUNOUTS IS TO BE WHAT IS LISTED IN THE PLUMBING FIXTURE SCHEDULE.

**KEY NOTES:**

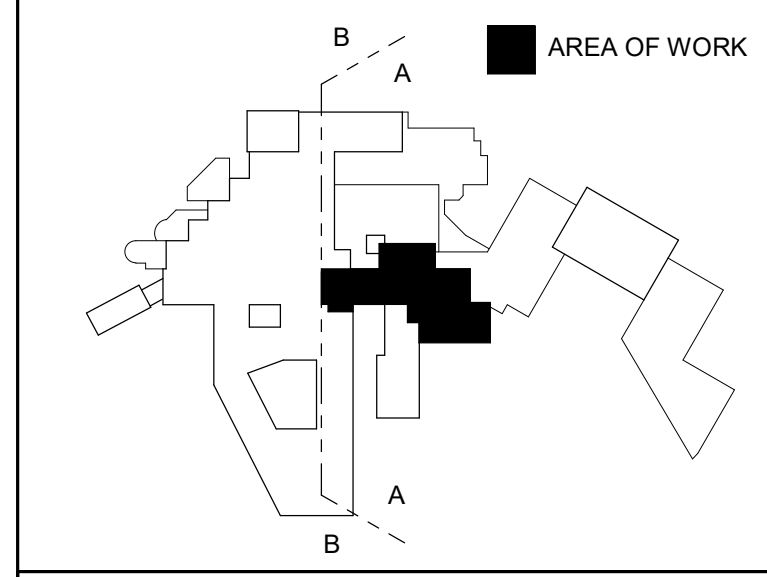
- 1 4" SAN UP TO FIRST FLOOR.
- 2 1-1/2" SAN UP TO FIRST FLOOR FIXTURE.
- 3 3" SAN UP TO FIRST FLOOR FIXTURE.
- 4 1-1/2" VENT UP TO FIRST FLOOR.
- 5 1/2" DCW UP TO TRAP PRIMER ASSEMBLY.
- 6 2" SAN UP TO FIRST FLOOR.
- 7 6" SD UP TO FIRST FLOOR.
- 8 NEW 6" SD PIPE CONNECT TO THE EXISTING 6" STORM PIPE.
- 9 CONNECT NEW 2" SAN SERVING FIRST FLOOR FIXTURES TO EXISTING SANITARY STACK 20.
- 10 CONNECT NEW 2" SAN SERVING FIRST FLOOR FIXTURES TO EXISTING SANITARY STACK 19.
- 11 CONNECT NEW 4" SAN SERVING FIRST FLOOR FIXTURES TO EXISTING SANITARY STACK 19.
- 12 CONNECT NEW 4" SAN SERVING FIRST FLOOR FIXTURES TO EXISTING SANITARY STACK 24.
- 13 CONNECT NEW 4" SAN SERVING FIRST FLOOR FIXTURES TO EXISTING SANITARY STACK 25.
- 14 CONNECT NEW 2" SAN SERVING FIRST FLOOR FIXTURES TO EXISTING SANITARY STACK 27.

**LEGEND:**

●●●●● AREA OF WORK

**KEY PLAN**

SCALE: NO SCALE



**WALL RATING LEGEND**

- SMOKE RESISTIVE HAZARDOUS AREA
- 1 HR - FIRE BARRIER
- 1 HR - SMOKE BARRIER
- 2 HR - FIRE BARRIER
- 2 HR - SMOKE BARRIER

**FULLY SPRINKLERED  
100% CONSTRUCTION DOCUMENTS**

#	Revisions:	Date

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Engineers | Architects  
www.acg-pa.com 919-858-7420

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

Drawing Title  
**GROUND FLOOR PLUMBING PLAN - AREA A**

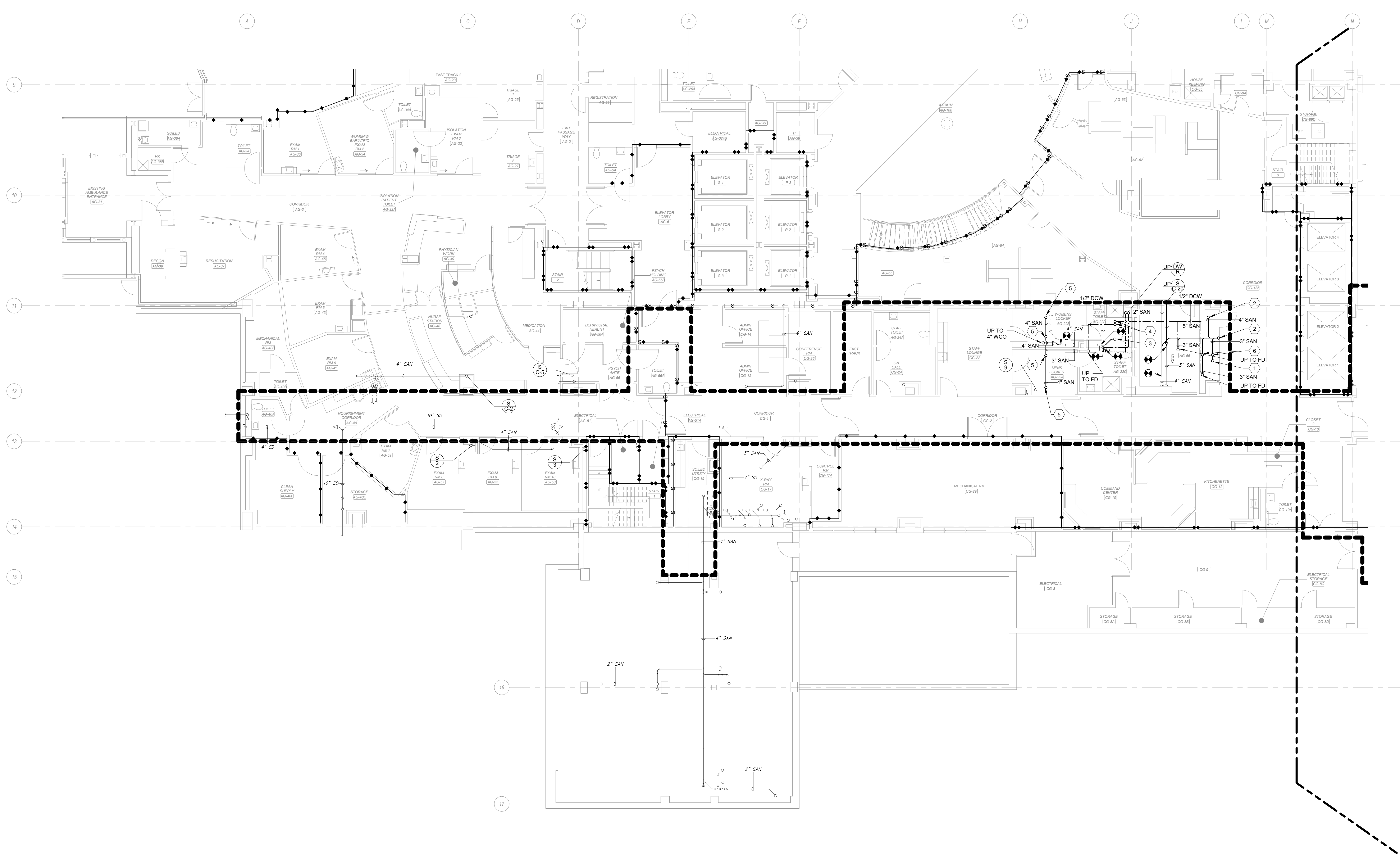
Location  
**WILKES-BARRE VA MEDICAL CENTER  
1111 EAST END BLVD  
WILKES-BARRE, PA 18711**

Project Title  
**EXPAND MENTAL HEALTH CLINIC**

Approved  
Date: FEBRUARY 21, 2024  
Checked: SWR  
Drawn: SMR/TB

VA PROJECT NUMBER 693-352  
Building Number # 1  
Drawing Number **P-100A**  
Dwg 10 of 22



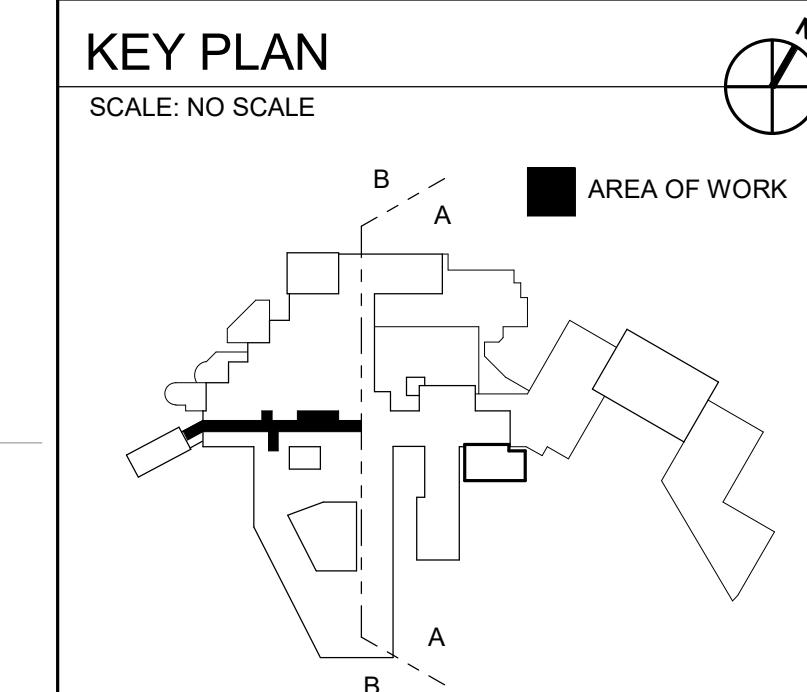


**SHEET NOTES:**

- A. SLEEVE ALL PENETRATIONS. FIRESTOP AND SEAL WATER TIGHT.
- B. UNLESS NOTED OTHERWISE, THE SIZE OF FIXTURE RUNOUTS IS TO BE WHAT IS LISTED IN THE PLUMBING FIXTURE SCHEDULE.

- KEY NOTES:**
- 1 3" SAN UP TO FIRST FLOOR AND 3" DOWN TO ABOVE GROUND FLOOR CEILING AND CONNECT TO EXISTING PIPING AS SHOWN.
  - 2 4" SAN UP TO FIRST FLOOR AND DOWN TO ABOVE GROUND FLOOR CEILING AND CONNECT TO EXISTING AS SHOWN.
  - 3 3" SAN UP TO FIRST FLOOR.
  - 4 1/2" DCW UP TO TRAP PRIMER ASSEMBLY.
  - 5 4" SAN UP TO FIRST FLOOR PLUMBING FIXTURE.
  - 6 2" VENT PIPE UP TO FIRST FLOOR.

**LEGEND:**  
 [Thick dashed line] AREA OF WORK



**WALL RATING LEGEND**

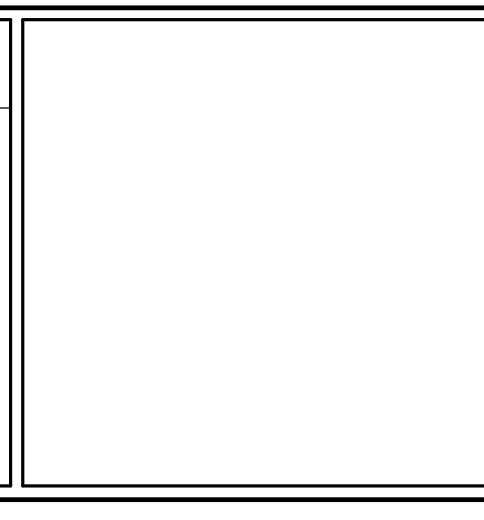
- [Symbol] SMOKE RESISTIVE HAZARDOUS AREA
- [Symbol] 1 HR - FIRE BARRIER
- [Symbol] 1 HR - SMOKE BARRIER
- [Symbol] 2 HR - FIRE BARRIER
- [Symbol] 2 HR - SMOKE BARRIER

**1 GROUND FLOOR PLUMBING PLAN - AREA B**  
 Scale: 1/8" = 1'-0"

**FULLY SPRINKLERED**  
**100% CONSTRUCTION DOCUMENTS**

#	Revisions:	Date

**CONSULTANTS:**



**PROJECT MANAGER**  
 ACG Project Number 20-083  
**APOGEE**  
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 Headquarters:  
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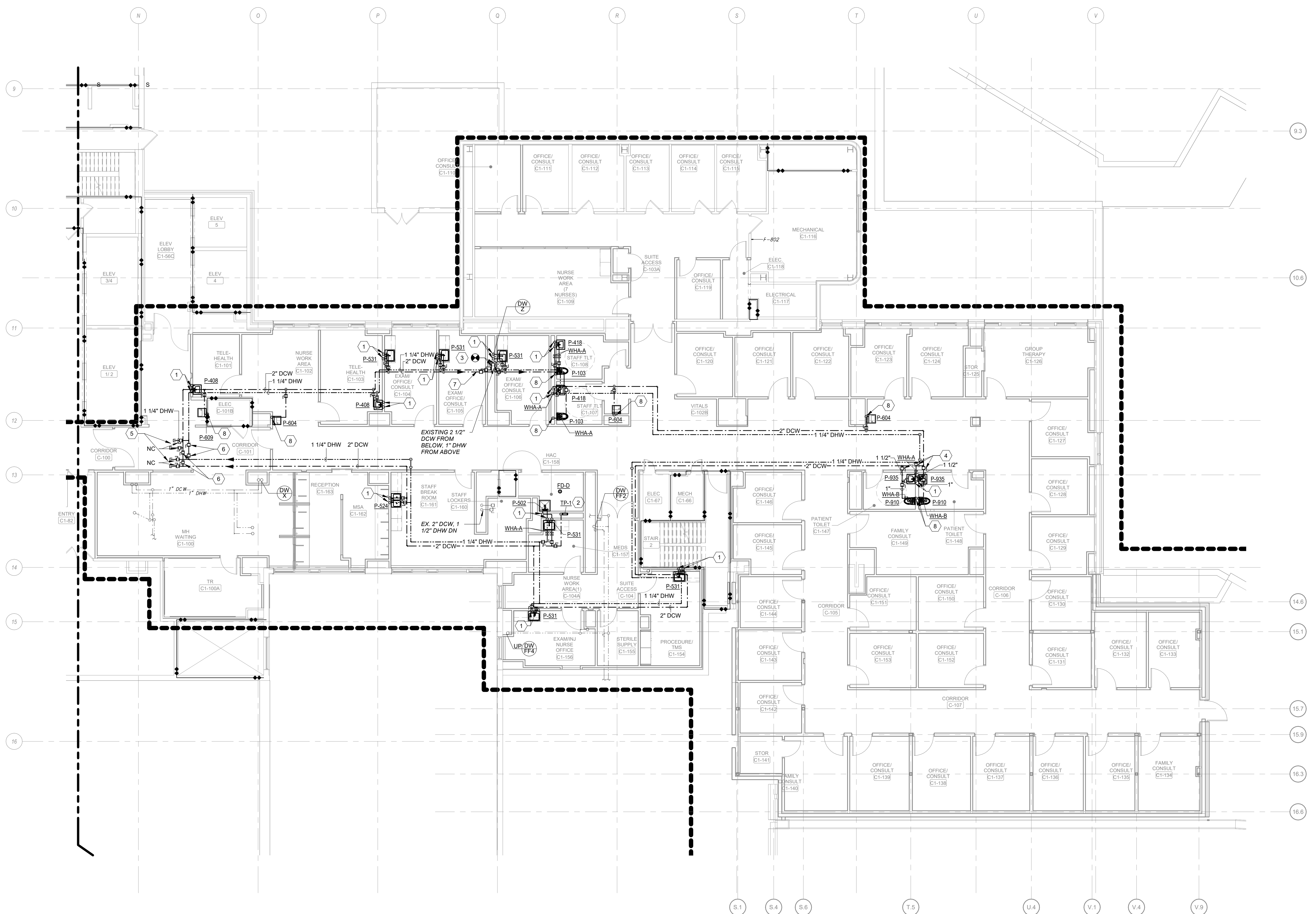
Office of Construction and Facilities Management  
**VA** U.S. Department of Veterans Affairs

Drawing Title  
**GROUND FLOOR PLUMBING PLAN - AREA B**  
 Location  
**WILKES-BARRE VA MEDICAL CENTER**  
 1111 EAST END BLVD  
 WILKES-BARRE, PA 18711

Project Title  
**EXPAND MENTAL HEALTH CLINIC**  
 Approved  
 Date  
 FEBRUARY 21, 2024  
 Checked  
 SWR  
 Drawn  
 SMR/TB

VA PROJECT NUMBER  
 693-352  
 Building Number  
 # 1  
 Drawing Number  
**P-100B**  
 Dwg 11 of 22



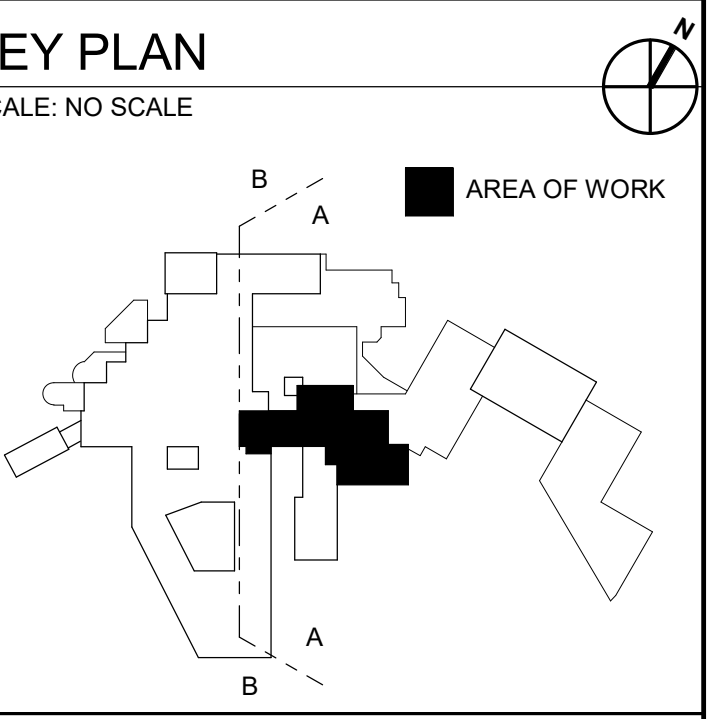


**1 FIRST FLOOR DOMESTIC WATER PLAN - AREA A**  
Scale: 1/8" = 1'-0"

- SHEET NOTES:**
- A. SLEEVE ALL PENETRATIONS. FIRESTOP AND SEAL WATER TIGHT.
  - B. UNLESS NOTED OTHERWISE, THE SIZE OF FIXTURE RUNOUTS IS TO BE WHAT IS LISTED IN THE PLUMBING FIXTURE SCHEDULE.
  - C. PROVIDE ISOLATION BALL VALVES AT EACH BRANCH TO FIXTURE. LOCATE AS CLOSE TO MAIN AS POSSIBLE.
  - D. PROVIDE WATER HAMMER ARRESTOR AT ALL QUICK CLOSING VALVES. SEE DETAIL 2/P-501 FOR SCHEDULE.

- KEY NOTES:**
- 1 DCW / DHW DOWN IN WALL / CHASE TO PLUMBING FIXTURE.
  - 2 1/2" DCW DOWN TO TRAP PRIMER ASSEMBLY AND TO FLOOR DRAIN P-TRAP(S).
  - 3 CONNECT 2" DCW AND 1-1/4" DHW TO EXISTING RISERS PER DETAIL 11P-501.
  - 4 BRANCH ISOLATION VALVES FOR PATIENT TOILETS SHALL BE ACCESSIBLE FROM CORRIDOR.
  - 5 PROVIDE 2" DCW AND 1-1/4" DHW VALVED AND CAPPED CONNECTIONS TO NEW DOMESTIC WATER SYSTEM.
  - 6 PROVIDE LOCKABLE TYPE ISOLATION VALVES. PROVIDE VALVED AND CAPPED DRAIN IN BETWEEN VALVES.
  - 7 PROVIDE WATER QUALITY MONITORING STATION IN THE CEILING PER DETAIL 12P-501 ON DCW AND DHW.
  - 8 DCW DOWN IN WALL / CHASE TO PLUMBING FIXTURE.

**LEGEND:**  
 AREA OF WORK

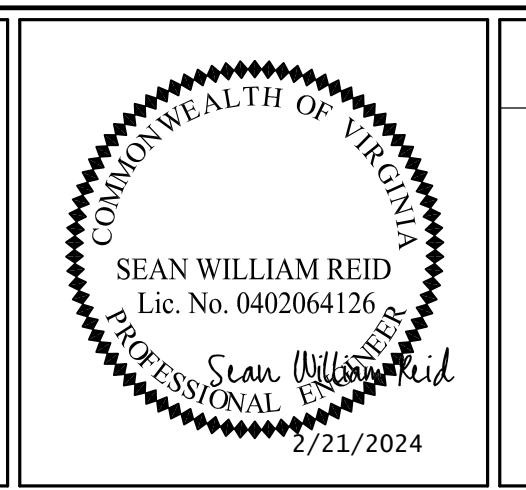


- WALL RATING LEGEND**
- SMOKE RESISTIVE HAZARDOUS AREA
  - 1 HR - FIRE BARRIER
  - 1 HR - SMOKE BARRIER
  - 2 HR - FIRE BARRIER
  - 2 HR - SMOKE BARRIER

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#	Revisions:	Date

**CONSULTANTS:**



**PROJECT MANAGER**  
 ACG Project Number 20-083  
  
**Apogee Consulting Group, P.A.**  
 Headquarters:  
 1151 Kildaire Farm Road, Suite 120  
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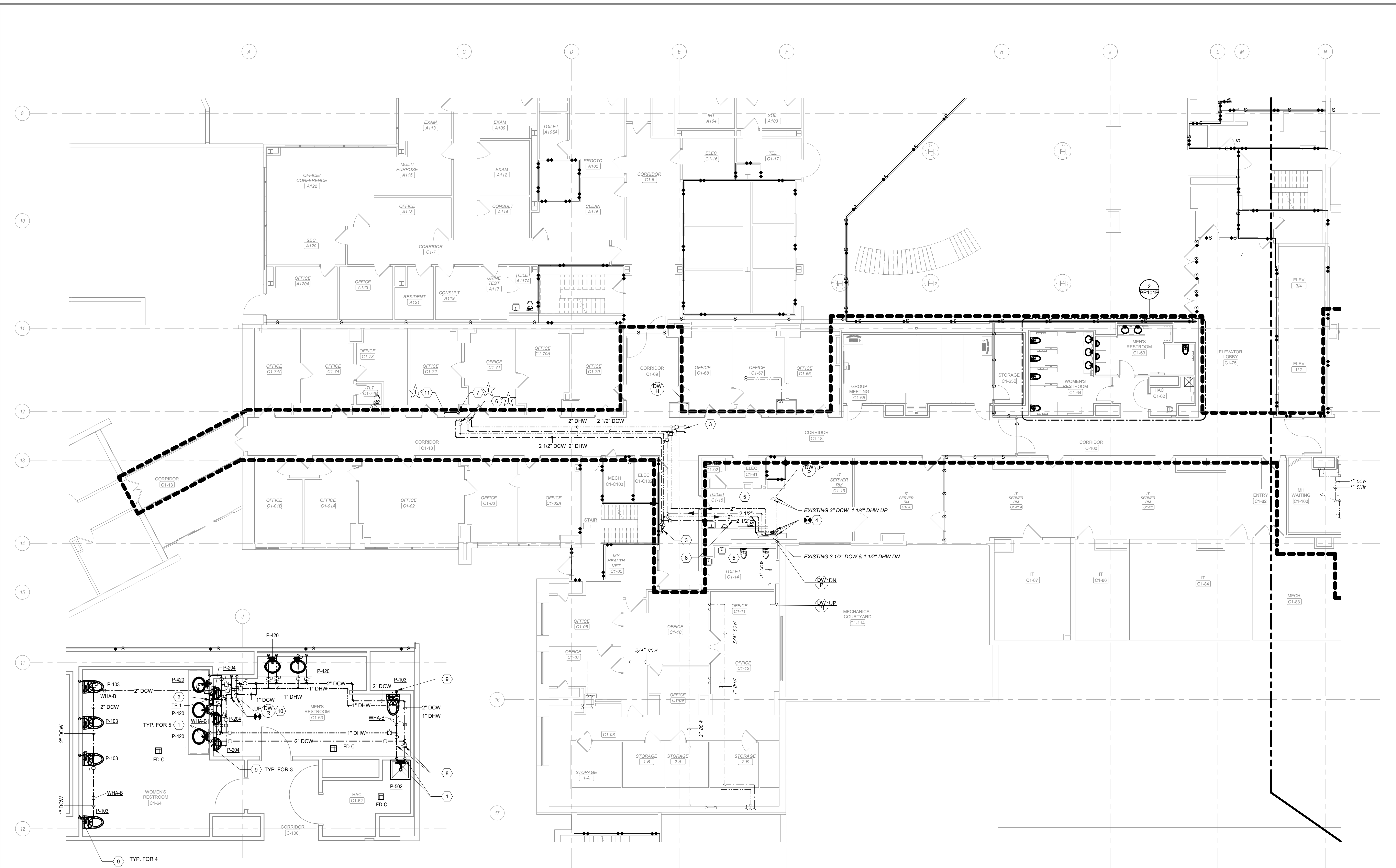
Office of Construction and Facilities Management  
 U.S. Department of Veterans Affairs

Drawing Title  
**FIRST FLOOR DOMESTIC WATER PLAN - AREA A**  
 Location  
**WILKES-BARRE VA MEDICAL CENTER**  
 1111 EAST END BLVD  
 WILKES-BARRE, PA 18711

Project Title  
**EXPAND MENTAL HEALTH CLINIC**  
 Approved  
 Date FEBRUARY 21, 2024  
 Checked SWR  
 Drawn SMR/TB

VA PROJECT NUMBER 693-352  
 Building Number # 1  
 Drawing Number **PP101A**  
 Dwg 12 of 22





- SHEET NOTES:**
- A. SLEEVE ALL PENETRATIONS. FIRESTOP AND SEAL WATER TIGHT.
  - B. UNLESS NOTED OTHERWISE, THE SIZE OF FIXTURE RUNOUTS IS TO BE WHAT IS LISTED IN THE PLUMBING FIXTURE SCHEDULE.
  - C. PROVIDE ISOLATION BALL VALVES AT EACH BRANCH TO FIXTURE. LOCATE AS CLOSE TO MAIN AS POSSIBLE.
  - D. PROVIDE WATER HAMMER ARRESTOR AT ALL QUICK CLOSING VALVES. SEE DETAIL 2/P-501 FOR SCHEDULE.

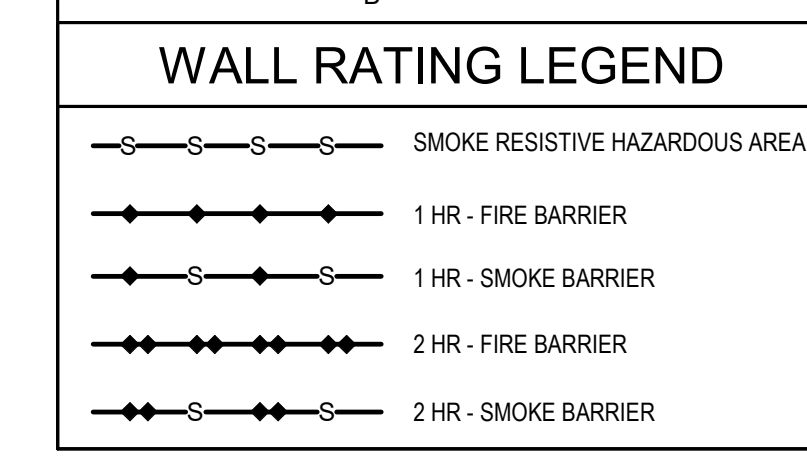
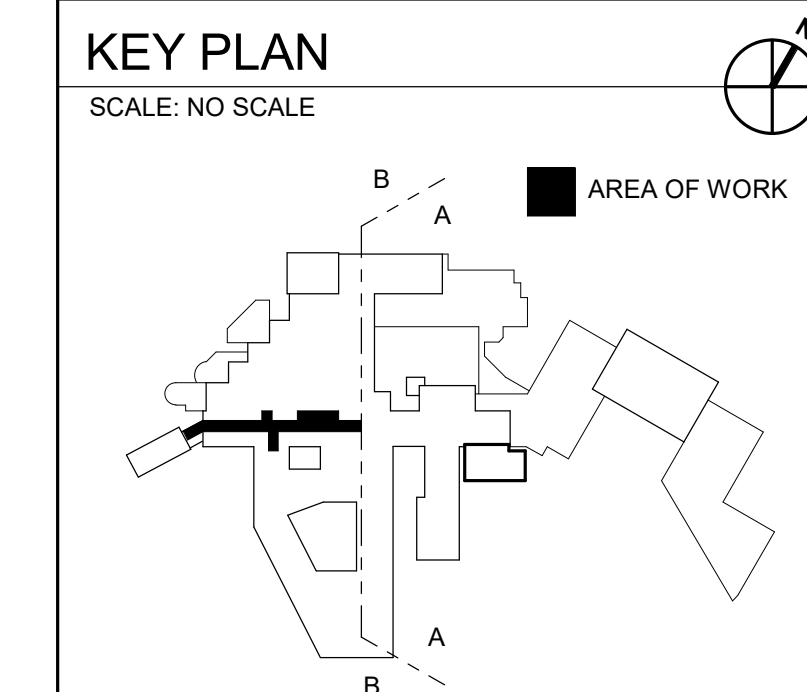
- KEY NOTES:**
- 1 DCW / DHW DOWN IN WALL / CHASE TO PLUMBING FIXTURE.
  - 2 1/2" DCW DOWN TO TRAP PRIMER ASSEMBLY AND TO FLOOR DRAIN P-TRAP(S).
  - 3 CAPPED & VALVED CONNECTIONS TO FUTURE NEW WATER SYSTEM.
  - 4 CONNECT TO EXISTING RISER PER DETAIL 14/P-501.
  - 5 THIS TOILET ROOM CONTAINS A HARD CEILING.
  - 6 2-1/2" DCW AND 2" DHW UP TO SECOND FLOOR.
  - 7 1/2" DCW UP TO TRAP PRIMER ASSEMBLY.
  - 8 <varies>
  - 9 DCW DOWN IN WALL / CHASE TO PLUMBING FIXTURE.
  - 10 OFFSET RISER R AS SHOWN. INSTALL NEW BEFORE DEMOLISHING OLD RISER. EXISTING 3" DCW FROM ABOVE. 1-1/4" DHW FROM BELOW.
  - 11 CONNECT 1/2" DCW PIPING TO FLOOR DRAINS FD-C PER DETAIL 3/P-501.

**DEDUCTIVE ALTERNATES:**

★ DELETE ALL WORK ASSOCIATED WITH THE NEW SECOND FLOOR POLICE SUITE, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED DEMOLITION AND NEW CONSTRUCTION.

**LEGEND:**

●●●●● AREA OF WORK



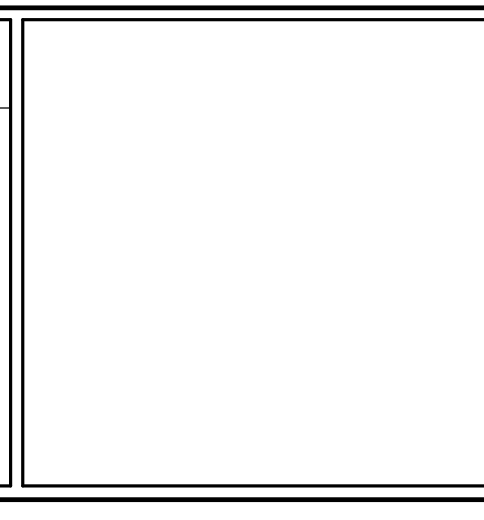
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 100% CONSTRUCTION DOCUMENTS**

**2 ENLARGED WOMEN'S RESTROOM C1-64, MEN'S RESTROOM C1-63, HAC C1-62 DOMESTIC WATER PLAN**  
 Scale: 1/4" = 1'-0"

**1 FIRST FLOOR DOMESTIC WATER PLAN - AREA B**  
 Scale: 1/8" = 1'-0"

#	Revisions:	Date

**CONSULTANTS:**



**PROJECT MANAGER**  
 ACG Project Number 20-083

Headquarters:  
**APOGEE Consulting Group, P.A.**  
 Lic. No. 0402064126  
 Cary, North Carolina 27511

www.acg-pa.com 919-858-7420

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

Drawing Title  
**FIRST FLOOR DOMESTIC WATER PLAN - AREA B, AND ENLARGED DOMESTIC WATER PLAN**

Location  
**WILKES-BARRE VA MEDICAL CENTER  
 1111 EAST END BLVD  
 WILKES-BARRE, PA 18711**

Project Title  
**EXPAND MENTAL HEALTH CLINIC**

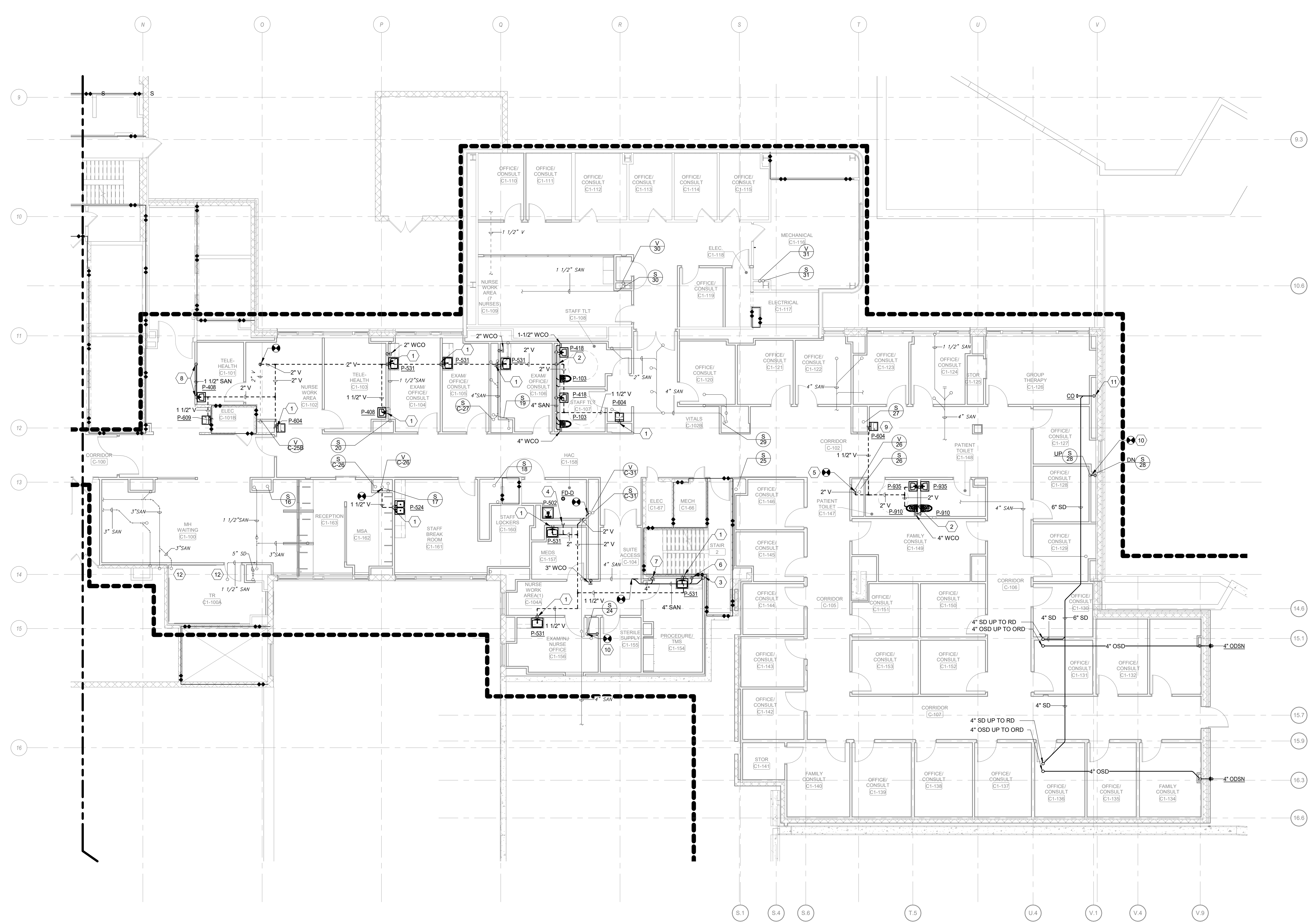
Approved  
 Date: FEBRUARY 21, 2024  
 Checked: SWR  
 Drawn: SMR/TB

VA PROJECT NUMBER 693-352  
 Building Number # 1  
 Drawing Number **PP101B**  
 Dwg 13 of 22









**1 FIRST FLOOR DRAIN, WASTE, AND VENT PLAN - AREA A**  
 Scale: 1/8" = 1'-0"

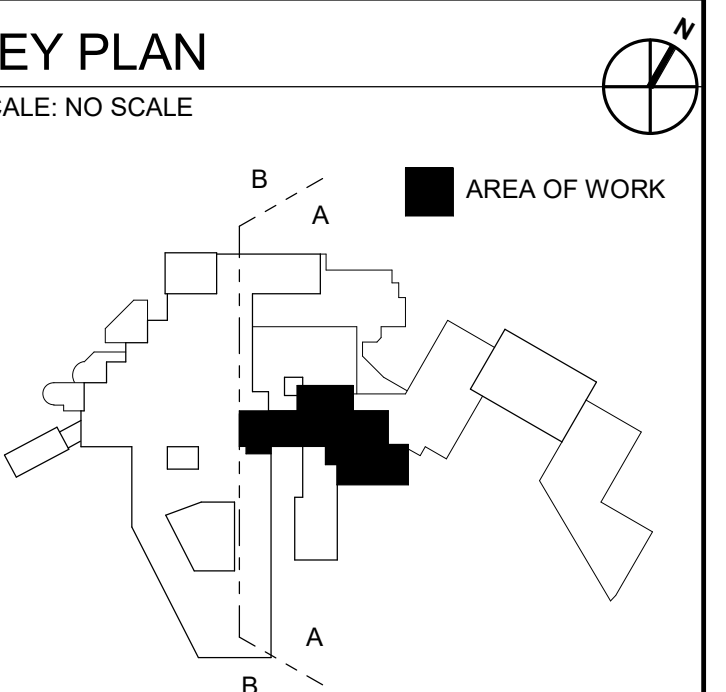
**SHEET NOTES:**

- SLEEVE ALL PENETRATIONS. FIRESTOP AND SEAL WATER TIGHT.
- UNLESS NOTED OTHERWISE, THE SIZE OF FIXTURE RUNOUTS IS TO BE WHAT IS LISTED IN THE PLUMBING FIXTURE SCHEDULE.

- KEY NOTES:**
- 1-1/2" VENT UP TO ABOVE FIRST FLOOR CEILING AND 1-1/2" SAN DOWN TO GROUND FLOOR.
  - 4" SAN DOWN TO GROUND FLOOR AND 2" VENT UP TO ABOVE FIRST FLOOR CEILING.
  - 4" SAN UP TO SECOND FLOOR.
  - 1-1/2" VENT DOWN TO GROUND FLOOR CEILING.
  - CONNECT 2" VENT TO EXISTING 2" VENT STACK 26.
  - 4" SAN UP TO FIXTURE ABOVE.
  - 1-1/2" SAN UP TO FIXTURE ABOVE.
  - 1-1/2" VENT UP TO ABOVE FIRST FLOOR CEILING AND 1-1/2" SAN IN WALL AND DOWN TO GROUND FLOOR.
  - RECONNECT NEW BOTTLE FILLING STATION TO EXISTING SAN AND VENT PIPING.
  - SANITARY STACK OFFSET IN CHASE. INSTALL NEW PIPING BEFORE DISCONNECTING EXISTING SERVICE. PIPE SIZE TO MATCH EXISTING.
  - NEW 6" SD PIPE DOWN TO THE GROUND FLOOR. PROVIDE DRIP PAN UNDER EXISTING SANITARY PIPING PER DETAIL 15/P-501.

**LEGEND:**

●●●●● AREA OF WORK



**WALL RATING LEGEND**

	SMOKE RESISTIVE HAZARDOUS AREA
	1 HR - FIRE BARRIER
	1 HR - SMOKE BARRIER
	2 HR - FIRE BARRIER
	2 HR - SMOKE BARRIER

**FULLY SPRINKLERED**  
**100% CONSTRUCTION DOCUMENTS**

#	Revisions:	Date

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 ACG Project Number 20-083

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 1151 Kildaire Farm Road, Suite 120  
 Cary, North Carolina 27511

www.acg-pa.com 919-858-7420

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

Drawing Title  
**FIRST FLOOR DRAIN, WASTE, AND VENT PLAN - AREA A**

Location  
**WILKES-BARRE VA MEDICAL CENTER**  
 1111 EAST END BLVD  
 WILKES-BARRE, PA 18711

Project Title  
**EXPAND MENTAL HEALTH CLINIC**

Approved  
 Date: FEBRUARY 21, 2024  
 Checked: SWR  
 Drawn: SMR/TB

VA PROJECT NUMBER  
 693-352

Building Number  
 # 1

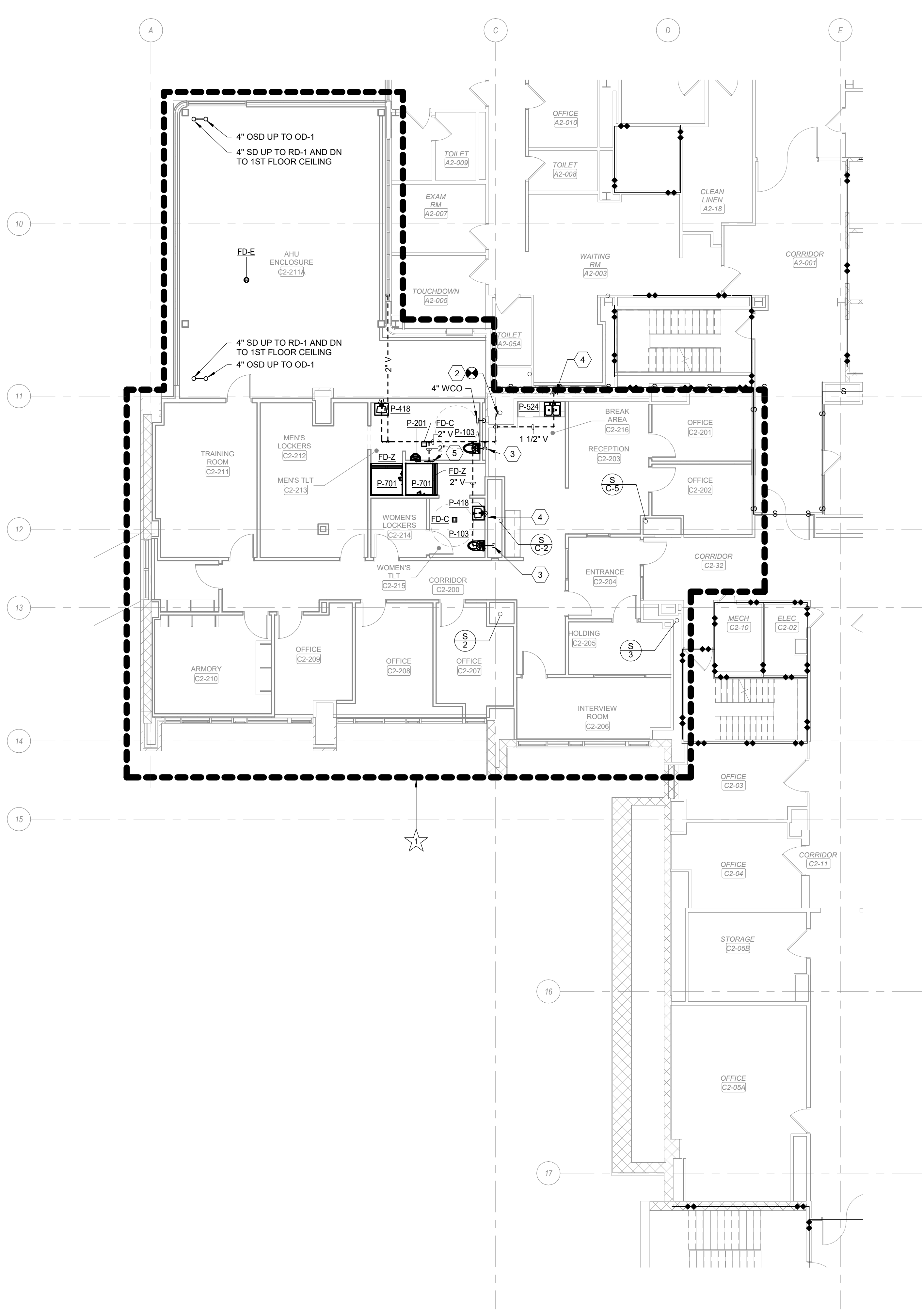
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Dwg 15 of 22

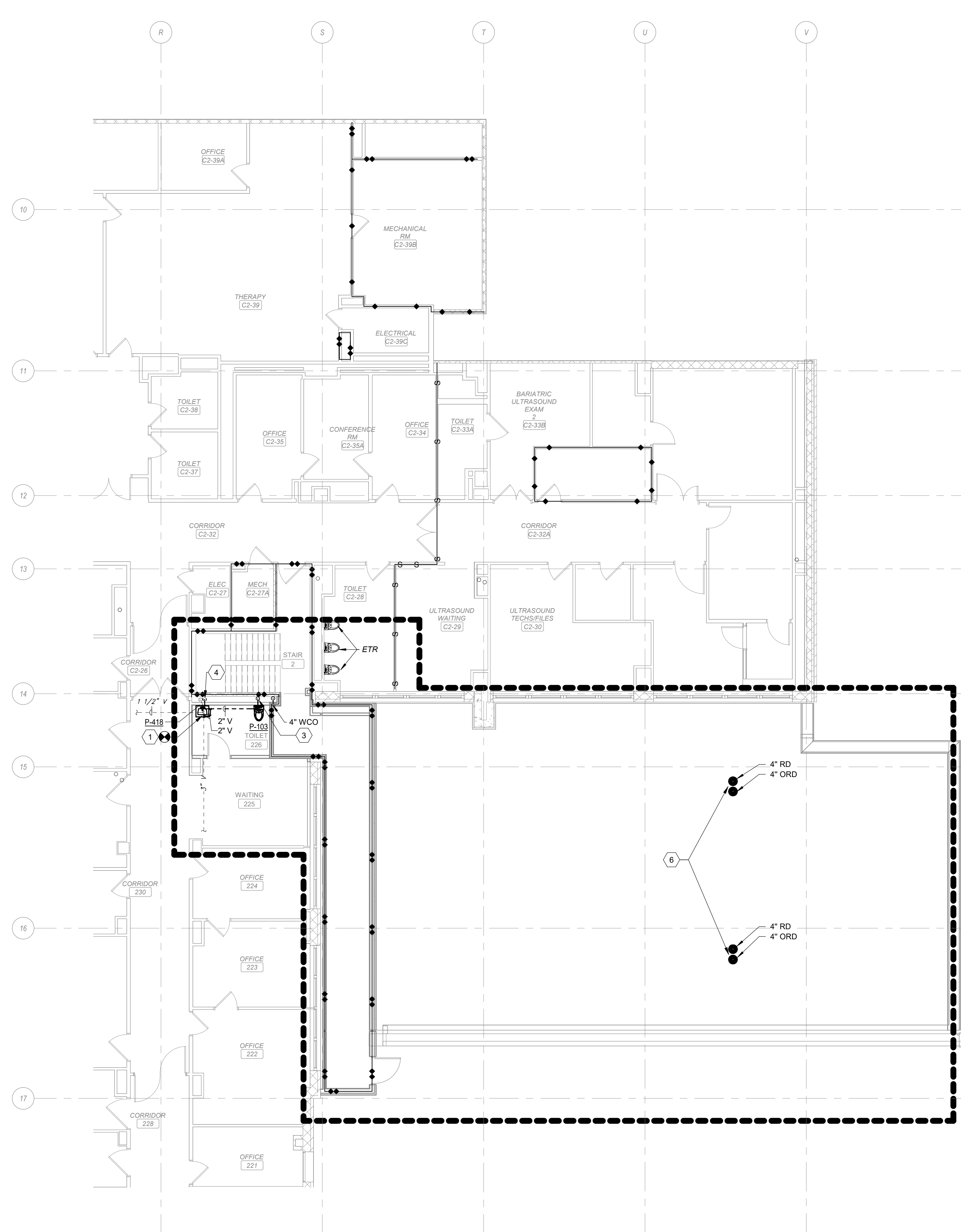
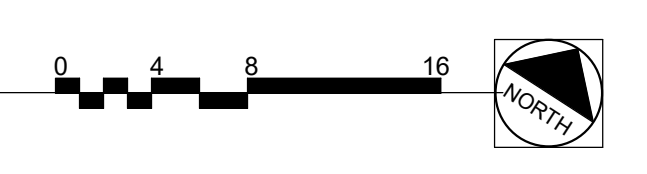




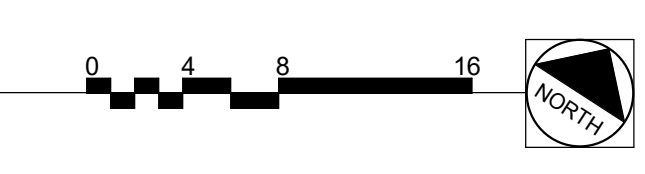




**2 SECOND FLOOR DRAIN, WASTE, AND VENT PLAN - AREA B**  
Scale: 1/8" = 1'-0"



**1 SECOND FLOOR DRAIN, WASTE, AND VENT PLAN - AREA A**  
Scale: 1/8" = 1'-0"



**SHEET NOTES:**

- A. SLEEVE ALL PENETRATIONS. FIRESTOP AND SEAL WATER TIGHT.
- B. UNLESS NOTED OTHERWISE, THE SIZE OF FIXTURE RUNOUTS IS TO BE WHAT IS LISTED IN THE PLUMBING FIXTURE SCHEDULE.

**KEY NOTES:**

- 1 2" VENT PIPE CONNECT TO EXISTING 3" VENT LINE.
- 2 CONNECT 2" VENT TO EXISTING 4" VENT LINE.
- 3 4" SAN DOWN TO FIRST FLOOR AND 2" VENT UP TO ABOVE SECOND FLOOR CEILING.
- 4 1-1/2" SAN DOWN TO FIRST FLOOR AND 1-1/2" VENT UP TO ABOVE SECOND FLOOR CEILING.
- 5 1-1/2" VENT DOWN TO FIRST FLOOR.
- 6 PROVIDE ROOF DRAINS AND OVERFLOW ROOF DRAINS

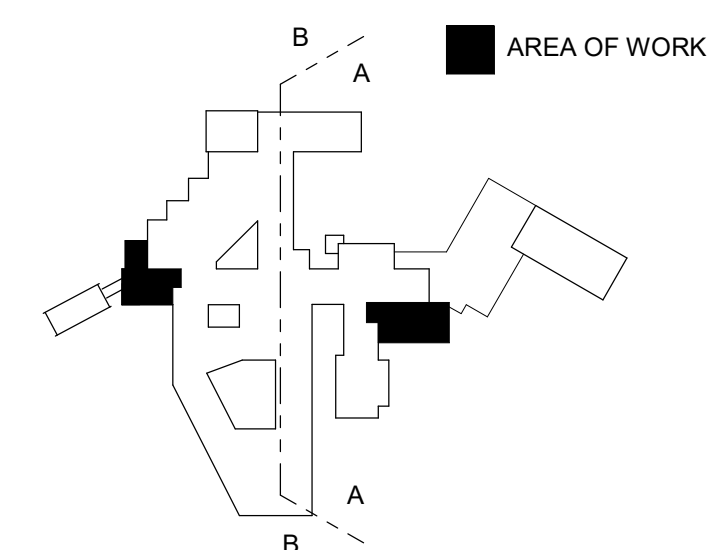
**DEDUCTIVE ALTERNATES:**

★ DELETE ALL WORK ASSOCIATED WITH THE NEW SECOND FLOOR POLICE SUITE, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED DEMOLITION AND NEW CONSTRUCTION.

**LEGEND:**

●●●●● AREA OF WORK

**KEY PLAN**  
SCALE: NO SCALE



**WALL RATING LEGEND**

- SMOKE RESISTIVE HAZARDOUS AREA
- 1 HR - FIRE BARRIER
- 1 HR - SMOKE BARRIER
- 2 HR - FIRE BARRIER
- 2 HR - SMOKE BARRIER

**FULLY SPRINKLERED**  
**100% CONSTRUCTION DOCUMENTS**

#	Revisions:	Date

**CONSULTANTS:**



**PROJECT MANAGER**  
ACG Project Number 20-083  
Headquarters:  
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1151 Kildaire Farm Road, Suite 120  
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**Office of Construction and Facilities Management**  
U.S. Department of Veterans Affairs

**Drawing Title**  
SECOND FLOOR DRAIN, WASTE, AND VENT PLAN - AREAS A AND B  
**Location**  
WILKES-BARRE VA MEDICAL CENTER  
1111 EAST END BLVD  
WILKES-BARRE, PA 18711

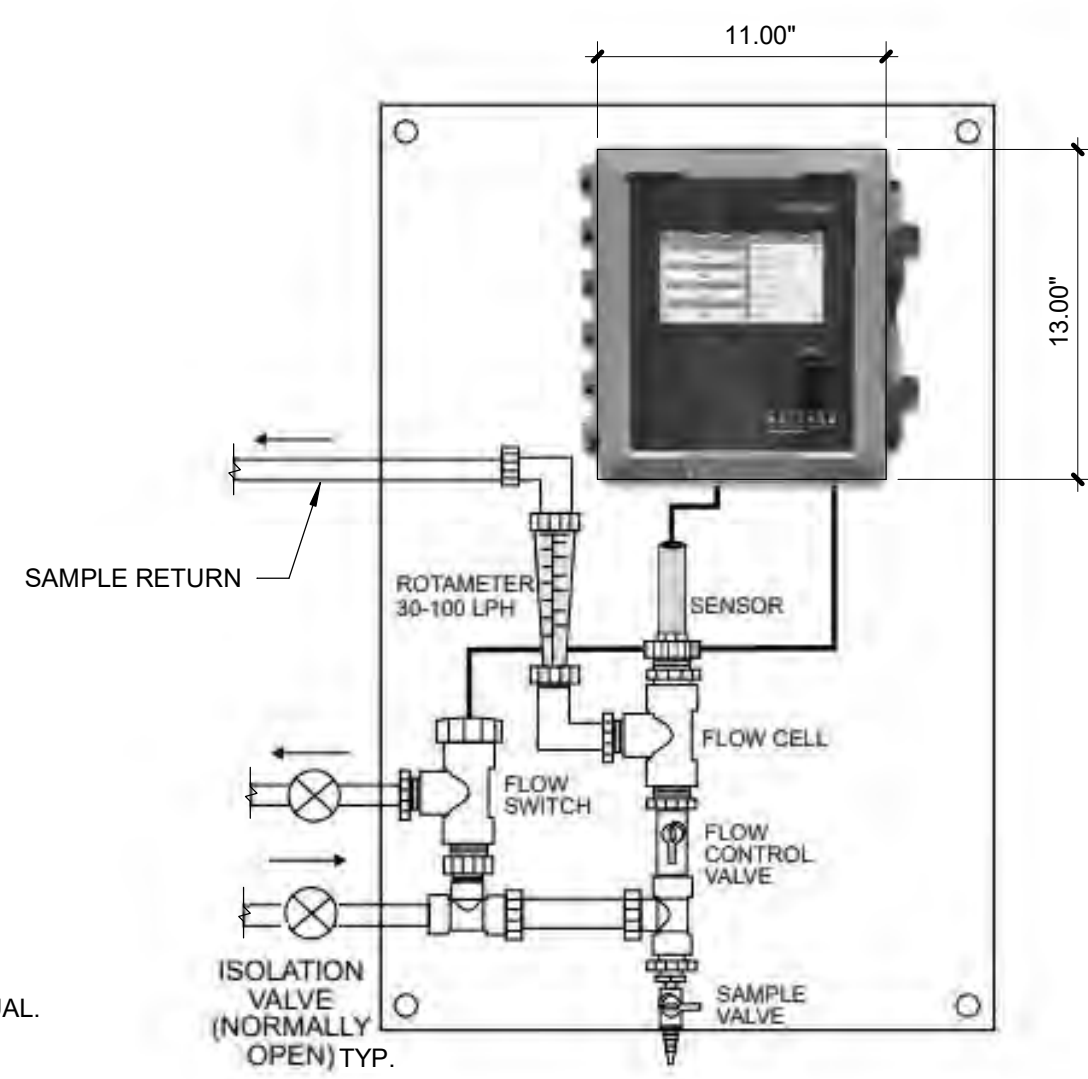
**Project Title**  
EXPAND MENTAL HEALTH CLINIC  
**Approved**  
Date: FEBRUARY 21, 2024  
**Checked**  
SWR  
**Drawn**  
SMR/TB

**VA PROJECT NUMBER**  
693-352  
**Building Number**  
# 1  
**Drawing Number**  
PW102AB  
Dwg 17 of 22

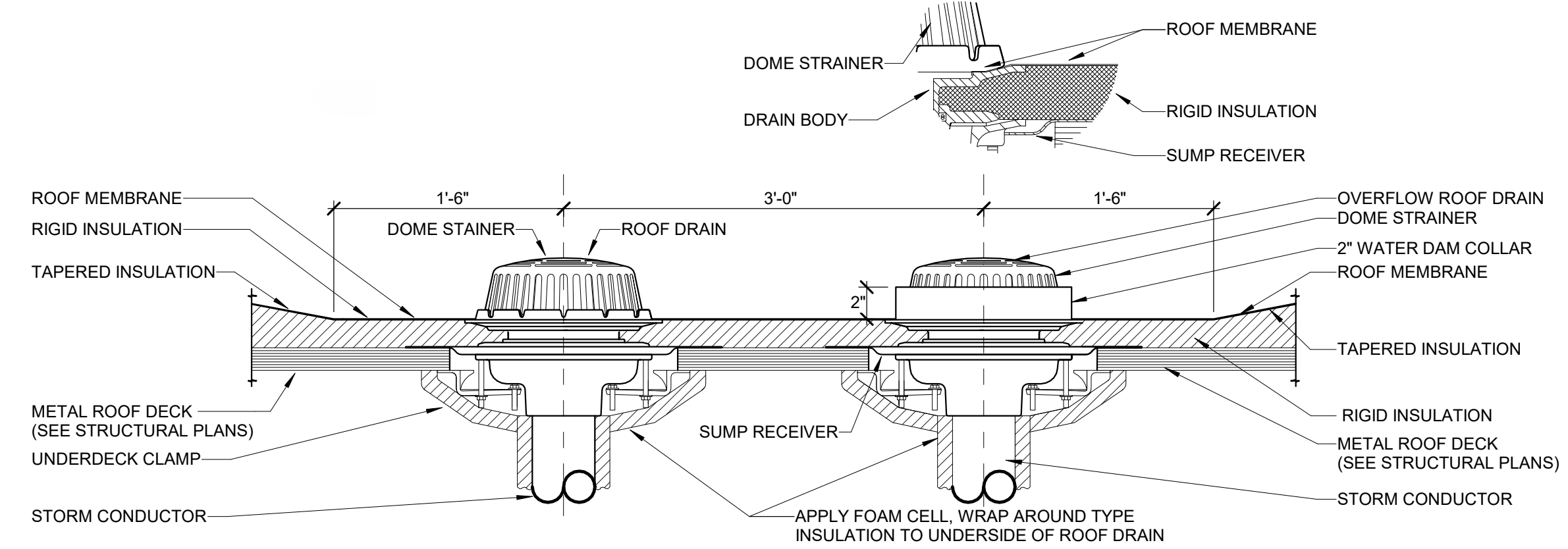




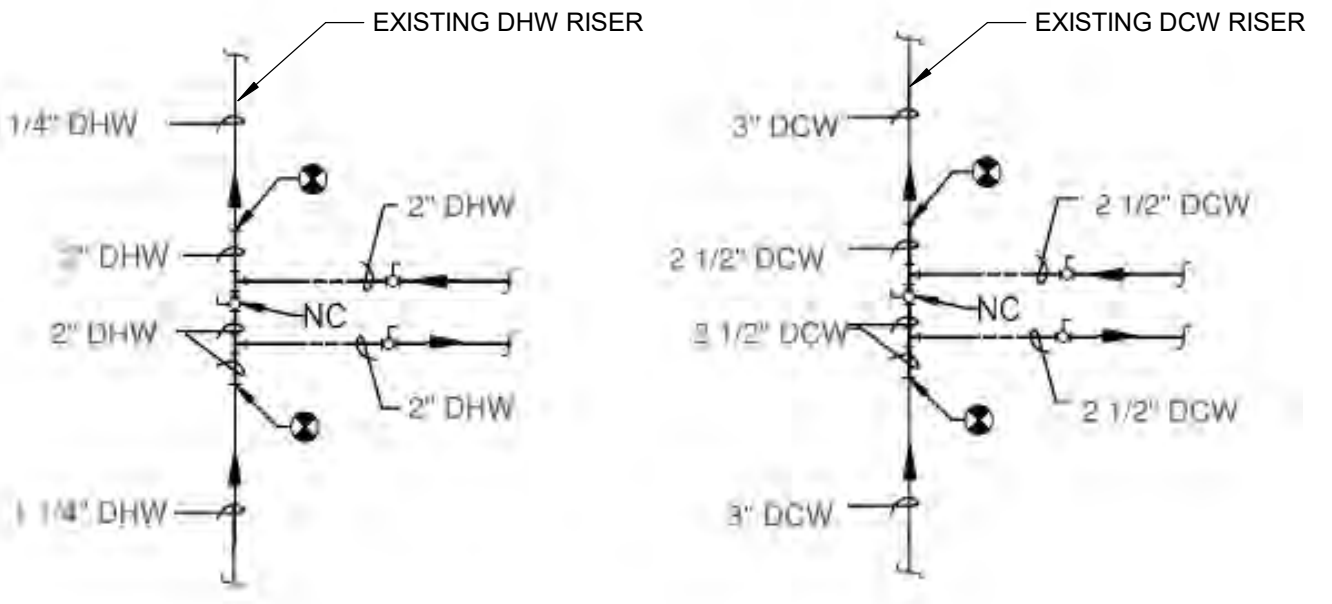




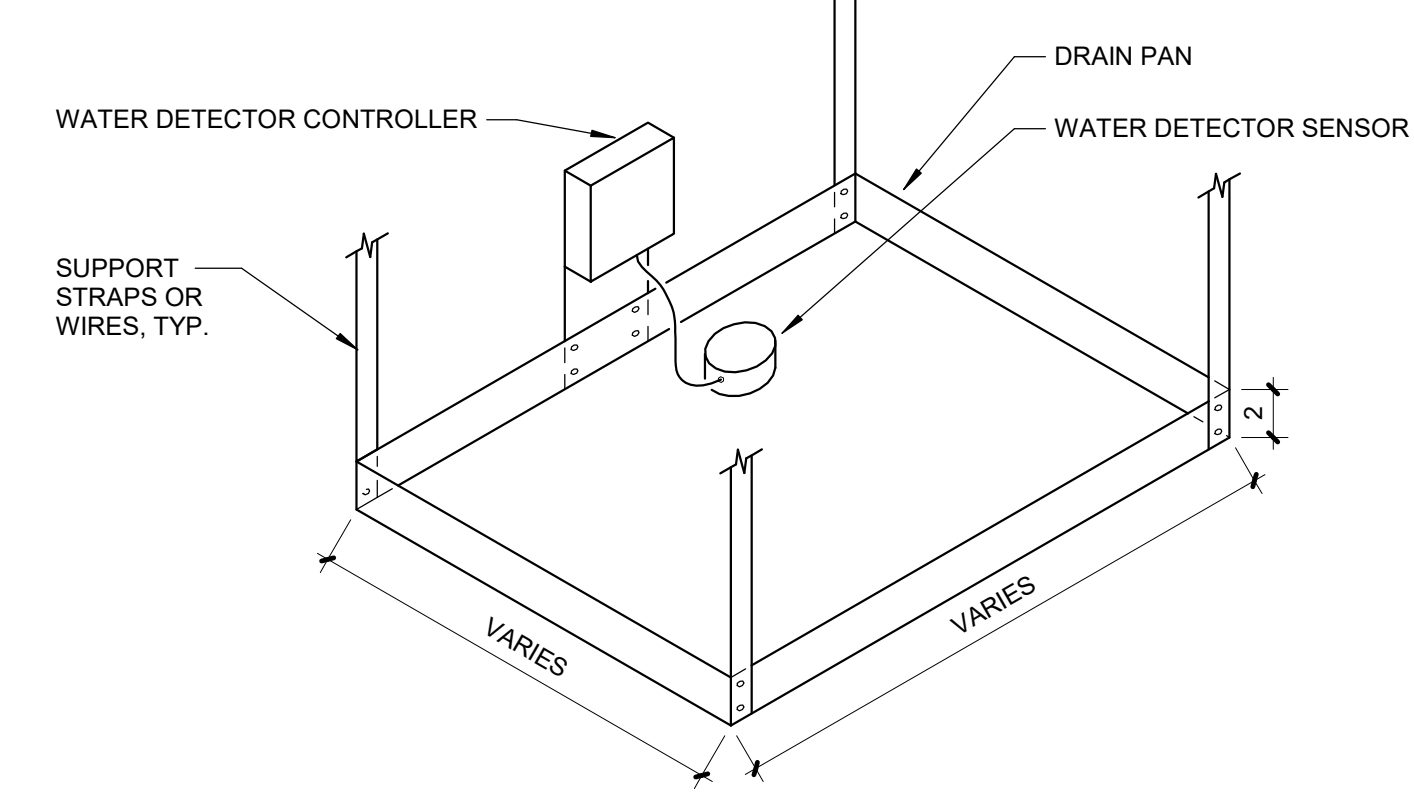
**12 WATER QUALITY MONITORING STATION SCHEMATIC**  
 Scale: No Scale



**13 ROOF DRAIN / OVERFLOW DRAIN DETAIL**  
 Scale: No Scale



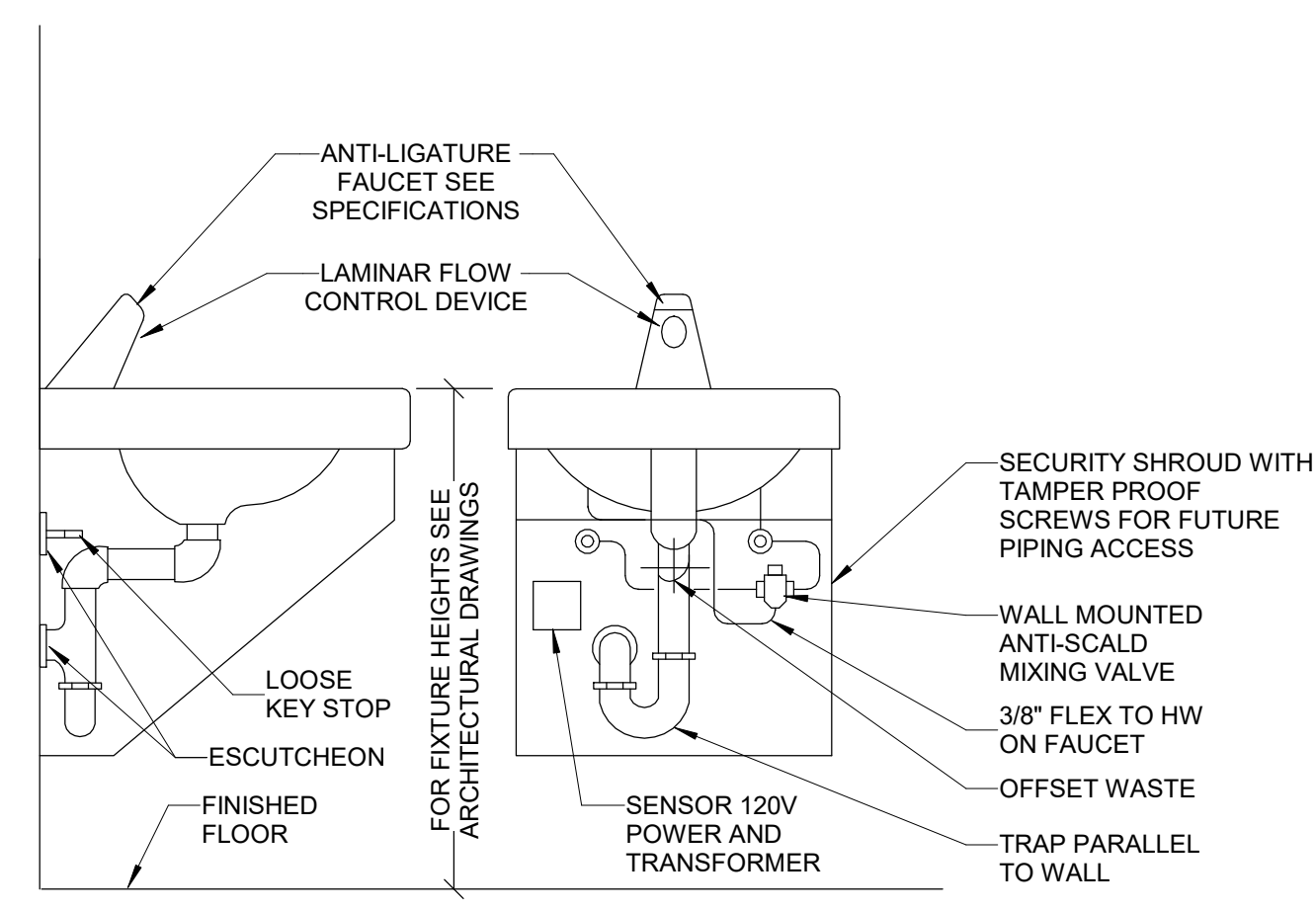
**14 DOMESTIC COLD AND HOT WATER RISER CONNECTION 2**  
 Scale: No Scale



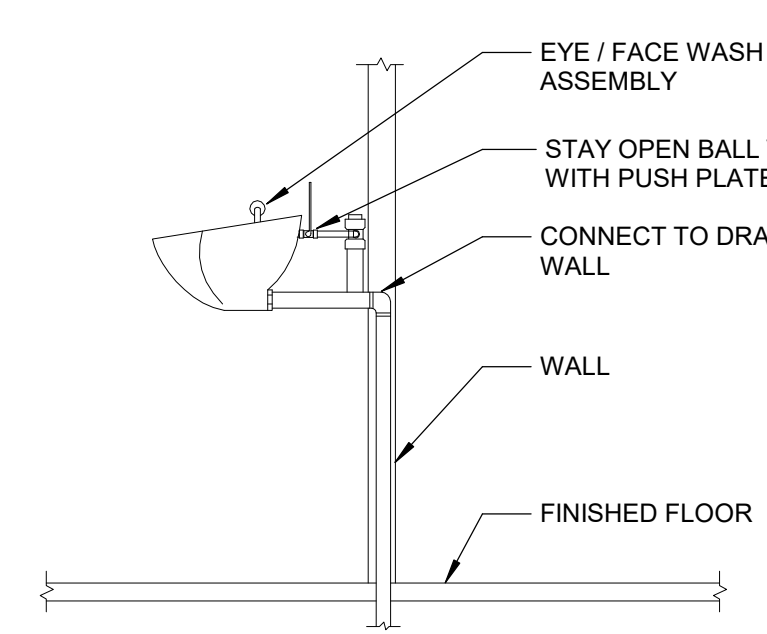
**15 DRIP PAN DETAIL**  
 Scale: No Scale

POINT NAME:	HARDWARE POINTS				SOFTWARE POINTS				SHOW ON GRAPHIC		
	AI	AO	BI	BO	AV	BV	LOOP	SCHED		TREND	ALARM
DRIP PAN WATER DETECTION ALARM			X							X	
TOTAL HARDWARE (1)	0	0	1	0	0	0	0	0	1	1	
	TOTAL SOFTWARE (2)										

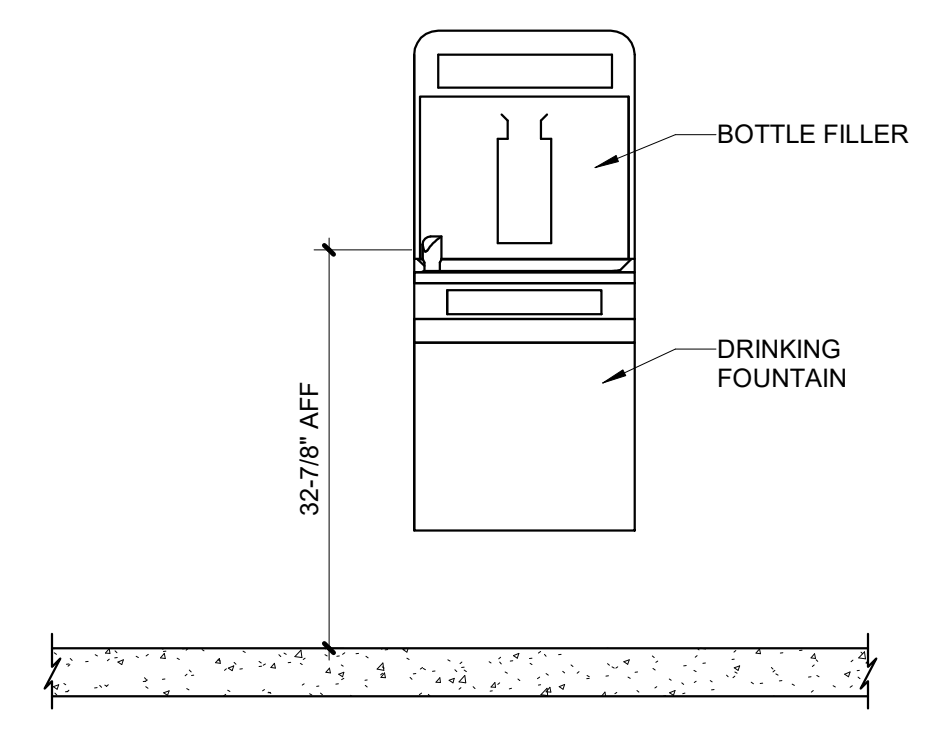
**16 DRIP PAN POINTS LIST**  
 Scale: No Scale



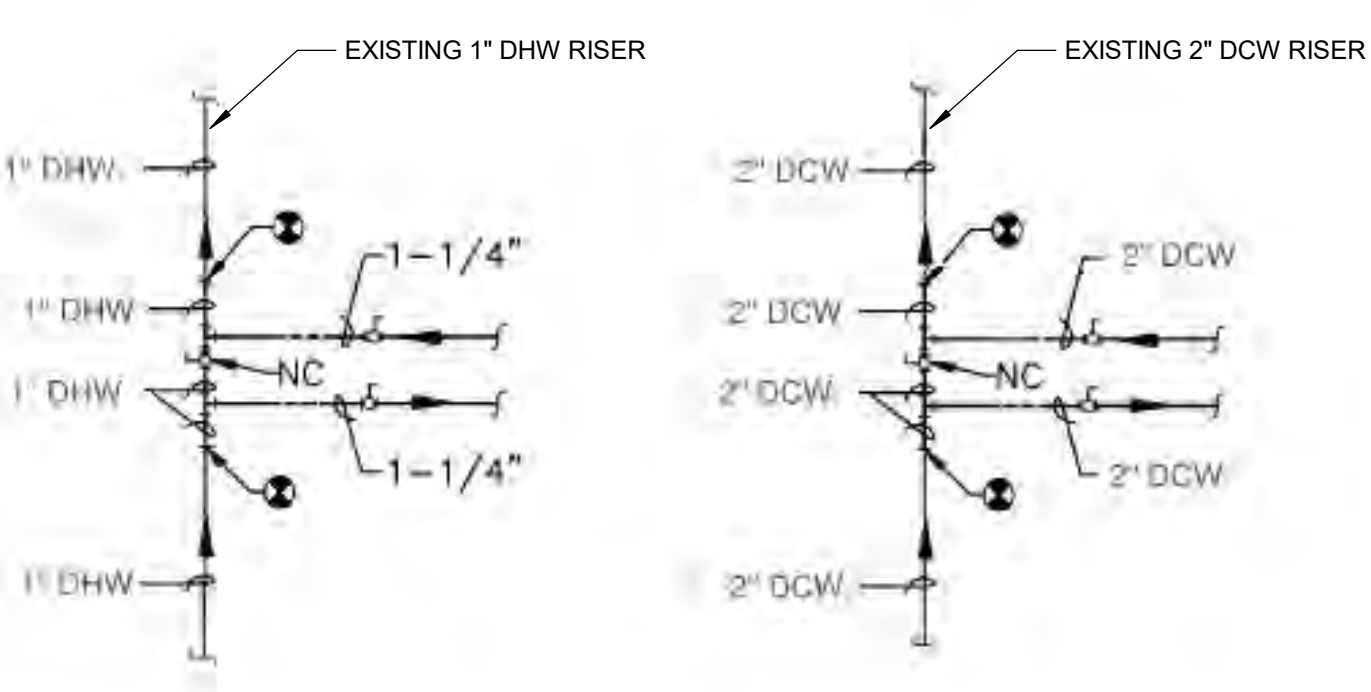
**8 LAVATORY WITH ANTI-LIGATURE FAUCET DETAIL**  
 Scale: No Scale



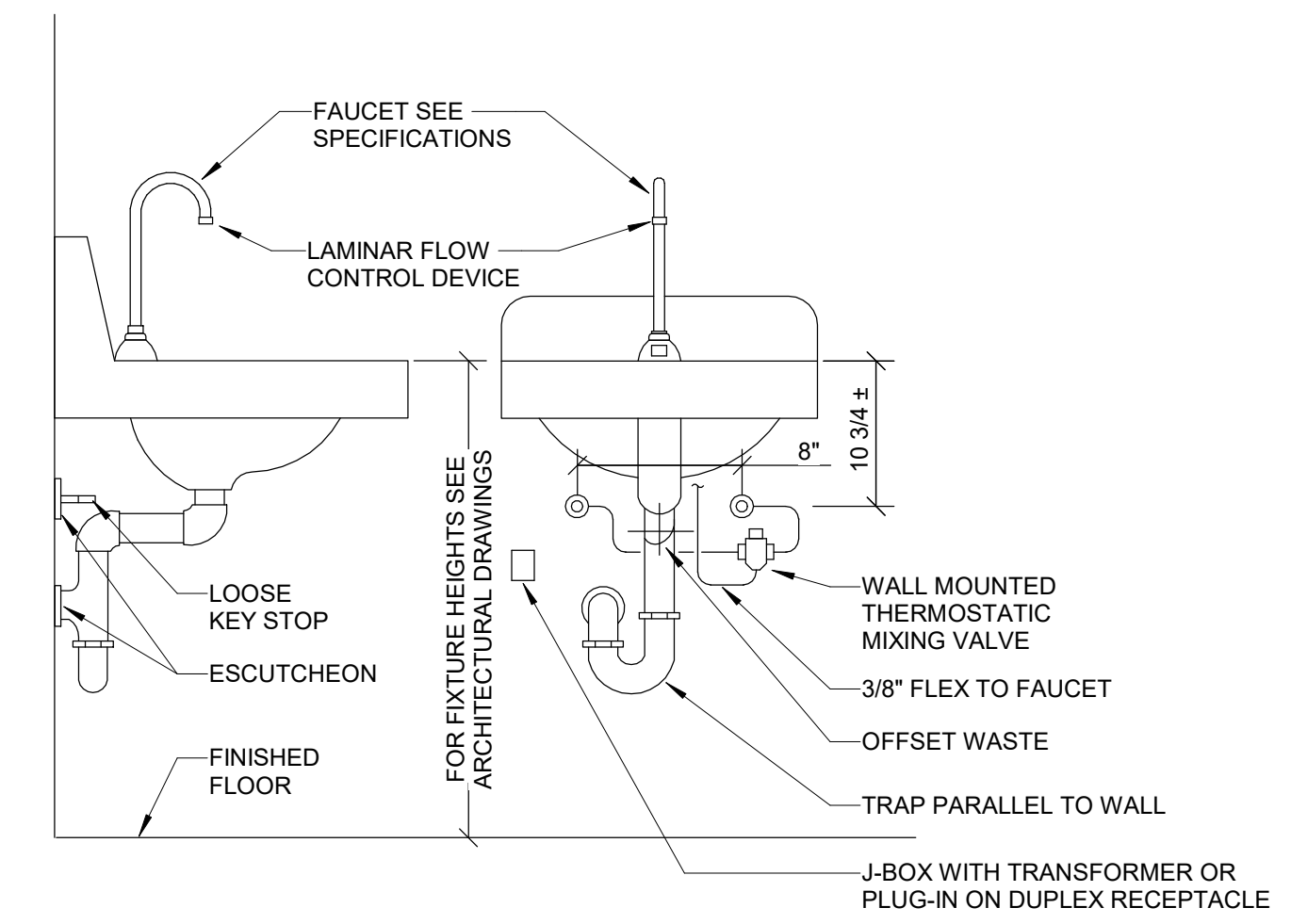
**9 EMERGENCY EYE / FACE WASH DETAIL**  
 Scale: No Scale



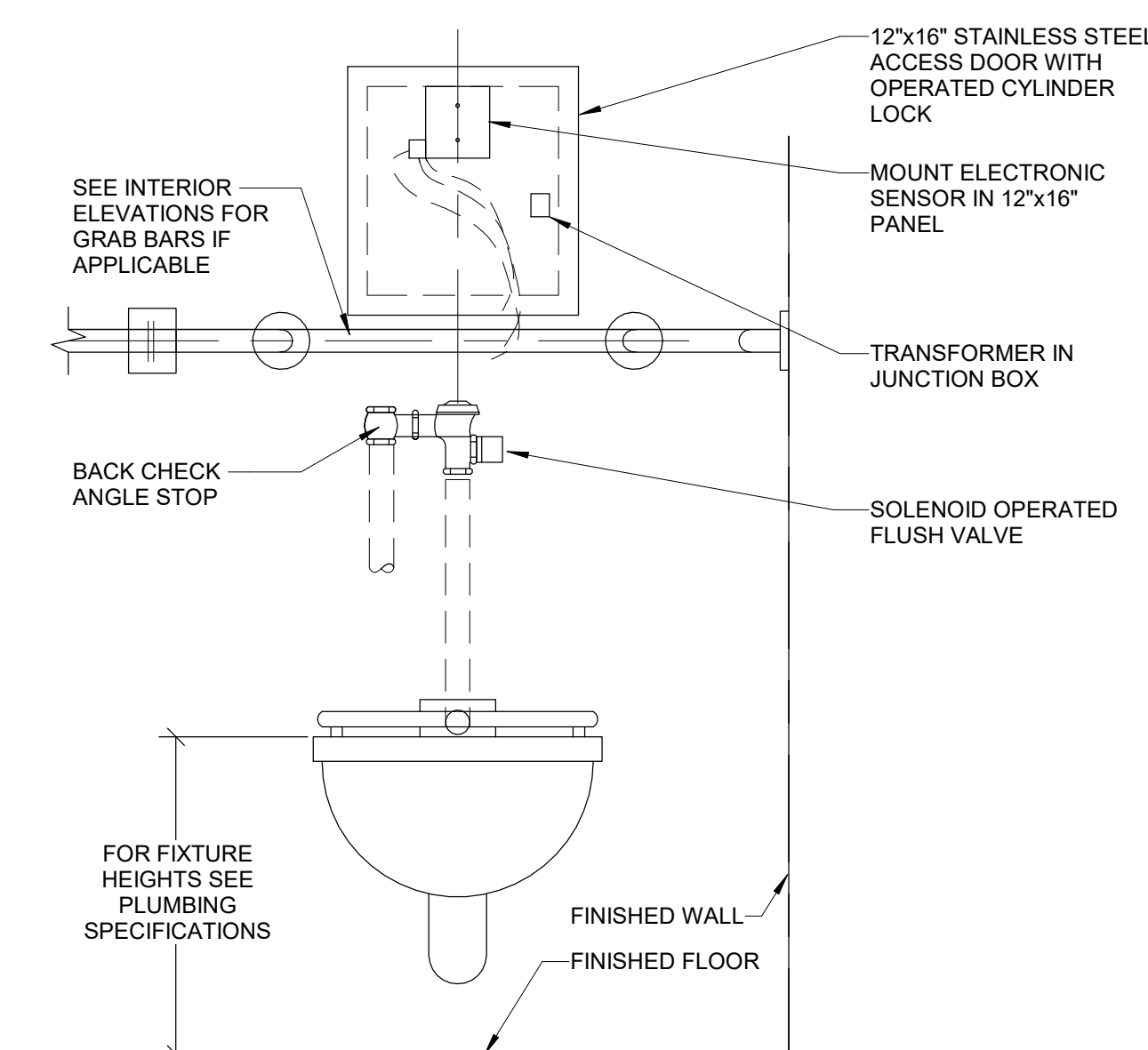
**10 SURFACE MOUNTED DRINKING FOUNTAIN WITH BOTTLE FILLER DETAIL**  
 Scale: No Scale



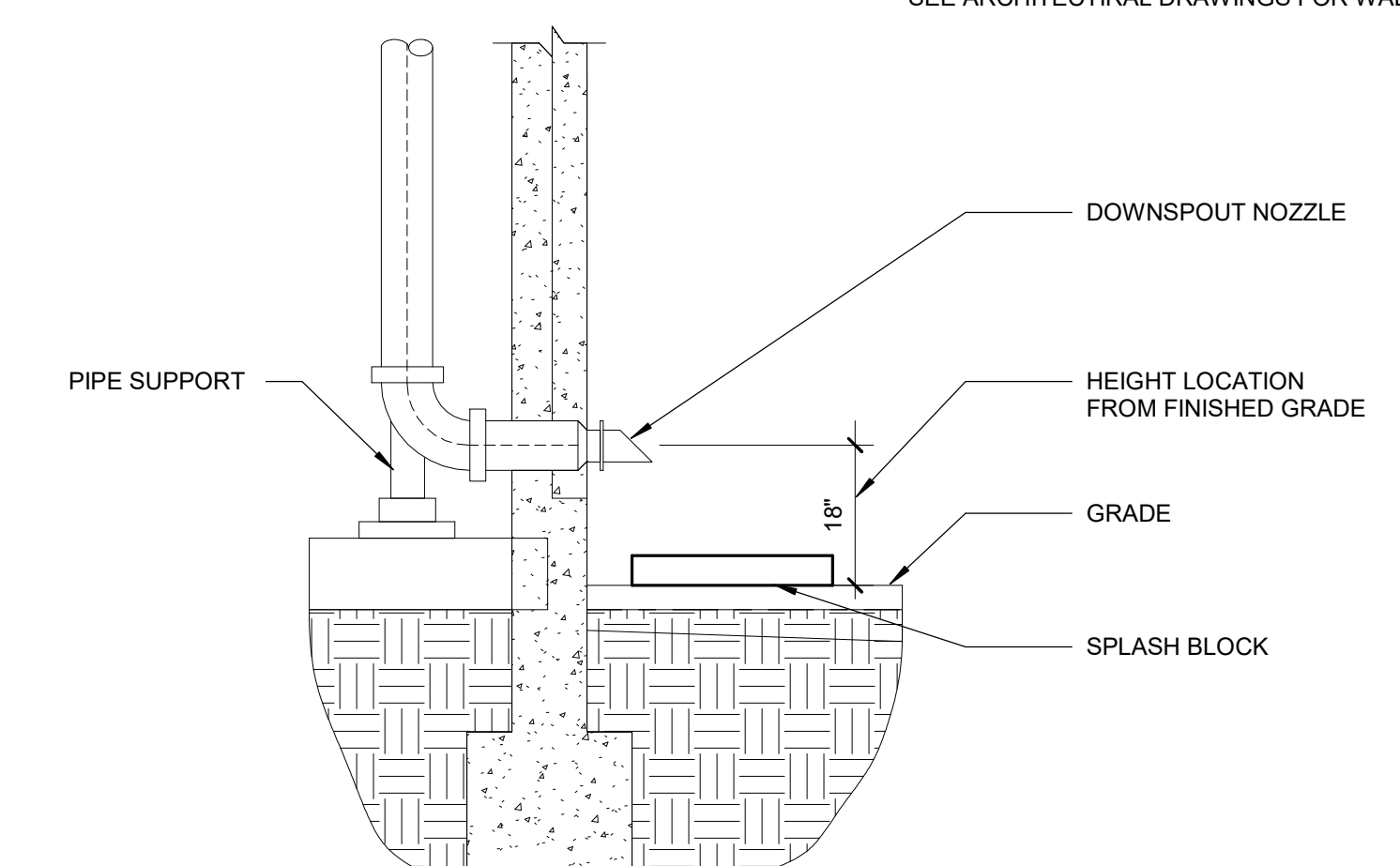
**11 DOMESTIC COLD AND HOT WATER RISER CONNECTION 1**  
 Scale: No Scale



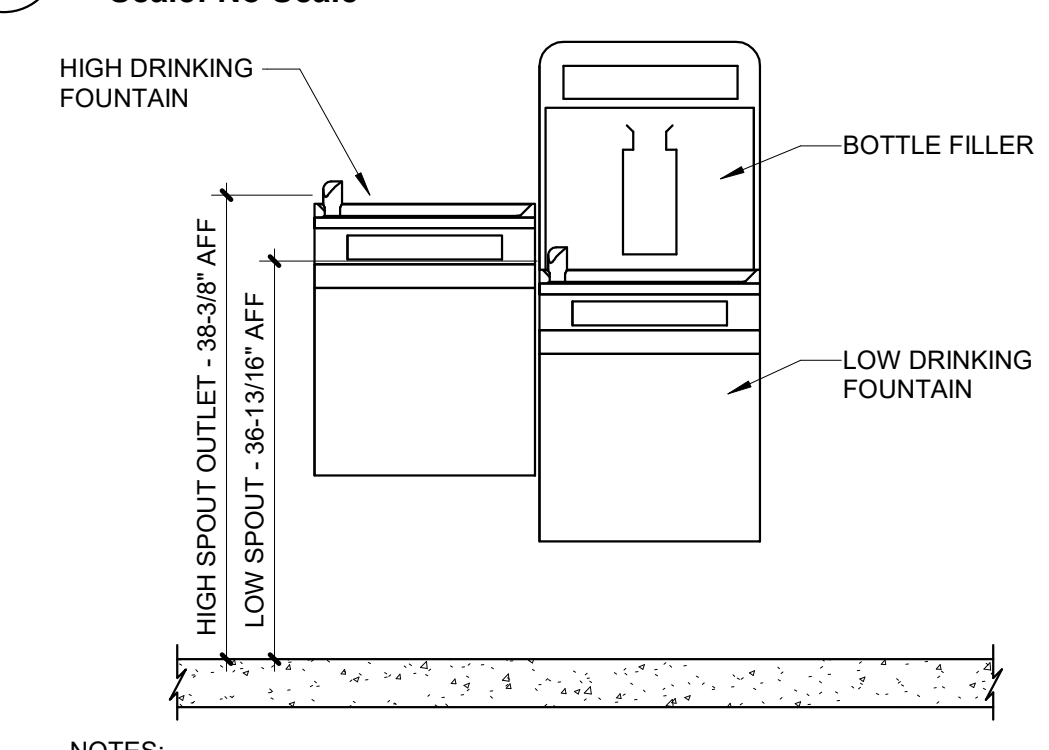
**4 LAVATORY WALL HUNG - SENSOR OPERATED FAUCET DETAIL**  
 Scale: No Scale



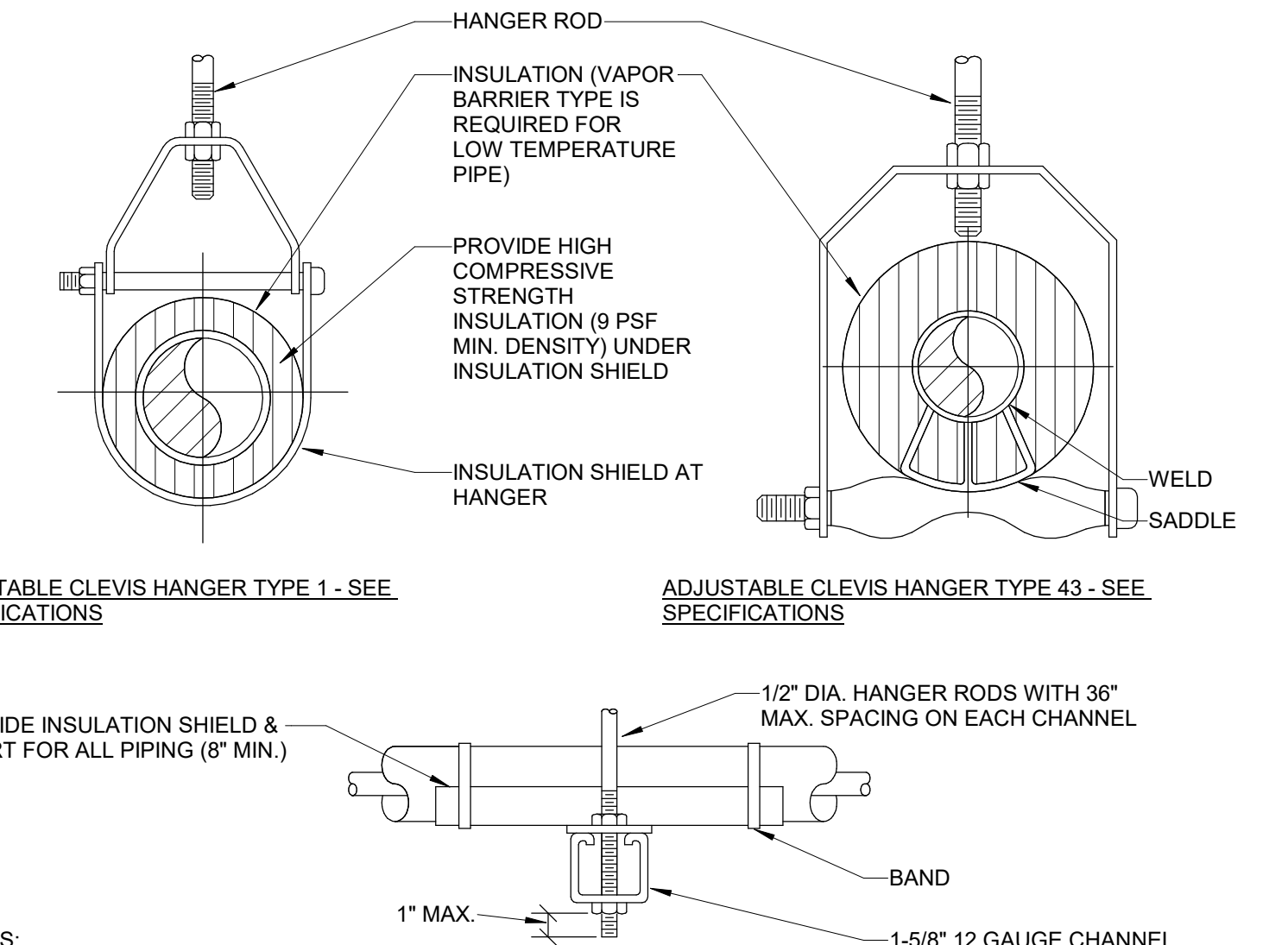
**5 WATER CLOSET WALL HUNG - SENSOR OPERATED DETAIL**  
 Scale: No Scale



**6 DOWNSPOUT NOZZLE DETAIL**  
 Scale: No Scale



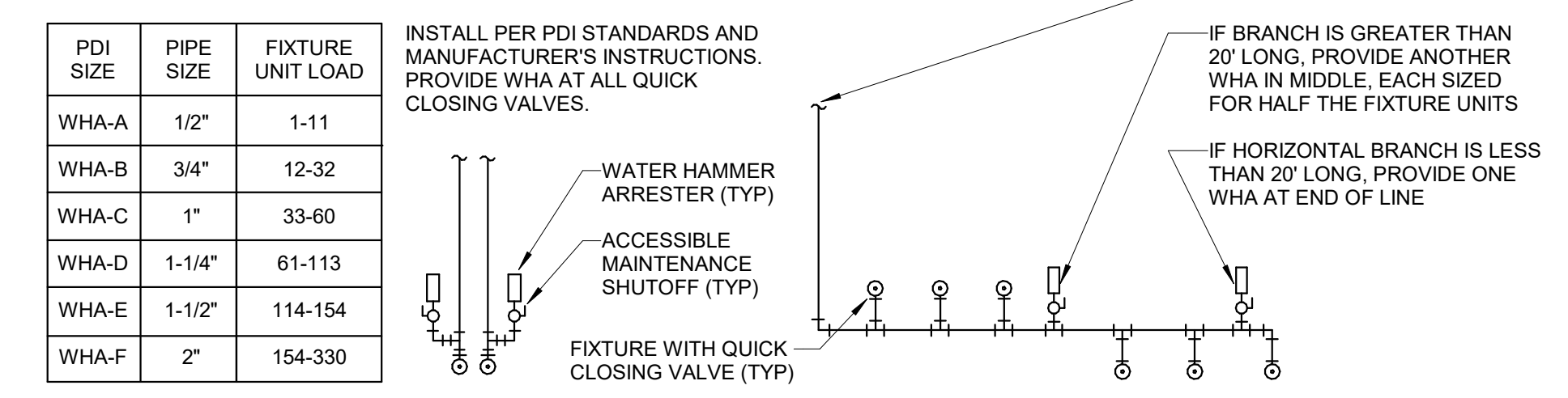
**7 SURFACE MOUNTED HIGH / LOW DRINKING FOUNTAIN WITH BOTTLE FILLER DETAIL**  
 Scale: No Scale



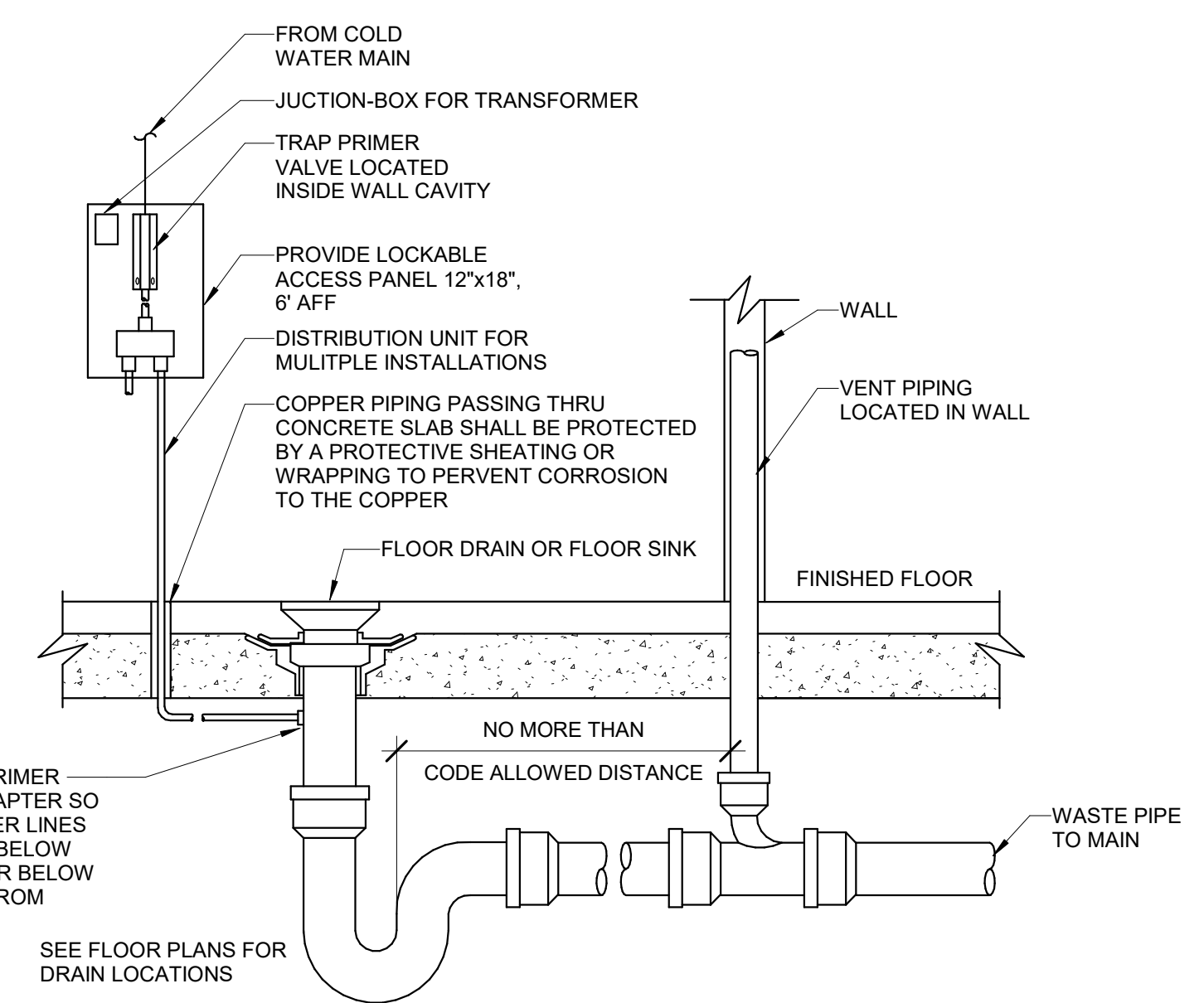
**1 PIPE HANGER DETAIL**  
 Scale: No Scale

MAXIMUM PIPE/TUBING SUPPORT SPACING													
NOM. SIZE (IN.)	THRU 3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12
PIPE (FT.)	7	7	7	9	10	11	12	14	16	17	19	22	23
TUBING (FT.)	5 FT	6	7	8	8	9	10	12	13	14	16	-	-

NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE



**2 WATER HAMMER ARRESTOR DETAIL**  
 Scale: No Scale

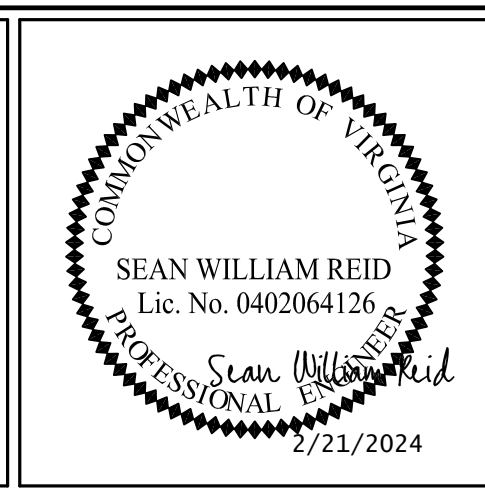


**3 FLOOR DRAIN & TRAP PRIMER DETAIL**  
 Scale: No Scale

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#	Revisions:	Date

CONSULTANTS:



**PROJECT MANAGER**  
 ACG Project Number 20-083  
 Headquarters:  
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 Cary, North Carolina 27511  
 Engineers | Architects  
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Office of Construction and Facilities Management  
 U.S. Department of Veterans Affairs

Drawing Title: **PLUMBING DETAILS**  
 Location: **WILKES-BARRE VA MEDICAL CENTER**  
 1111 EAST END BLVD  
 WILKES-BARRE, PA 18711

Project Title: **EXPAND MENTAL HEALTH CLINIC**  
 Approved: \_\_\_\_\_  
 Date: FEBRUARY 21, 2024  
 Checked: SWR  
 Drawn: SMR/TB

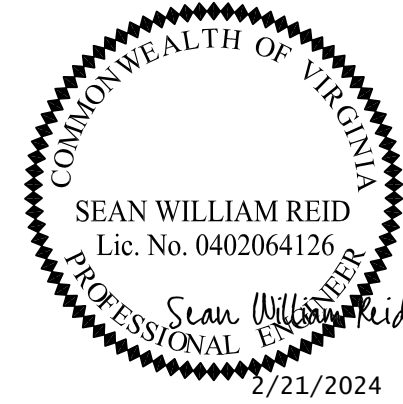


VA PROJECT NUMBER: 693-352  
 Building Number: # 1  
 Drawing Number: **P-501**  
 Dwg 19 of 22



PLUMBING LOAD SUMMARY											* - PRIVATE FIXTURES	
MARK	DESCRIPTION	QUANTITY	DFU EACH	DFU	CW WSFU EACH	CW WSFU	HW WSFU EACH	HW WSFU	TOTAL WSFU EACH	TOTAL WSFU		
P-103	WATER CLOSET, FLUSH VALVE, WALL MOUNT, PUBLIC	10	4	40	10	100	0	0	10	100		
P-201	URINAL, SIPHON JET, HIGH	1	4	2	10	3	0	0	10	3		
P-204	URINAL, WASHOUT, LOW	3	4	6	10	9	0	0	10	9		
P-408	LAVATORY, WALL MOUNT, WRIST BLADES, PUBLIC	2	1	2	1.5	3	1.5	3	2	4		
P-418	LAVATORY, WALL MOUNT, SENSOR, PUBLIC	5	1	5	1.5	7.5	1.5	7.5	2	10		
P-420	LAVATORY, COUNTER MOUNT, SENSOR, PUBLIC	5	1	5	1.5	7.5	1.5	7.5	2	10		
P-502	SERVICE SINK, TERRAZO MOP	2	2	4	3	6	3	6	4	8		
P-524	SINK, COUNTER MOUNT, DOUBLE COMPARTMENT	2	3	6	1.5	3	1.5	3	2	4		
P-531	SINK, COUNTER MOUNT, SINGLE COMPARTMENT	6	3	18	1.5	9	1.5	9	2	12		
P-604	ELECTRIC WATER COOLER, WITH BOTTLE FILLER	3	4	1.5	10	0.75	0	0	10	0.75		
P-609	ELECTRIC WATER COOLER, DUAL HEIGHT, BOTTLE FILLER	1	4	0.5	10	0.25	0	0	10	0.25		
P-701	SHOWER BATH FIXTURE, DETACHABLE PLASTIC HOSE SPRAY, PUBLIC	2	2	4	3	6	3	6	4	8		
P-910	WATER CLOSET, LIGATURE RESISTANT, FLOOR MOUNT HC, FLUSH VALVE	2	4	8	10	20	0	0	10	20		
P-935	LAVATORY, LIGATURE RESISTANT, HC	2	1	2	1.5	3	1.5	3	2	4		
	TOTAL:	46		104		178		45		193		

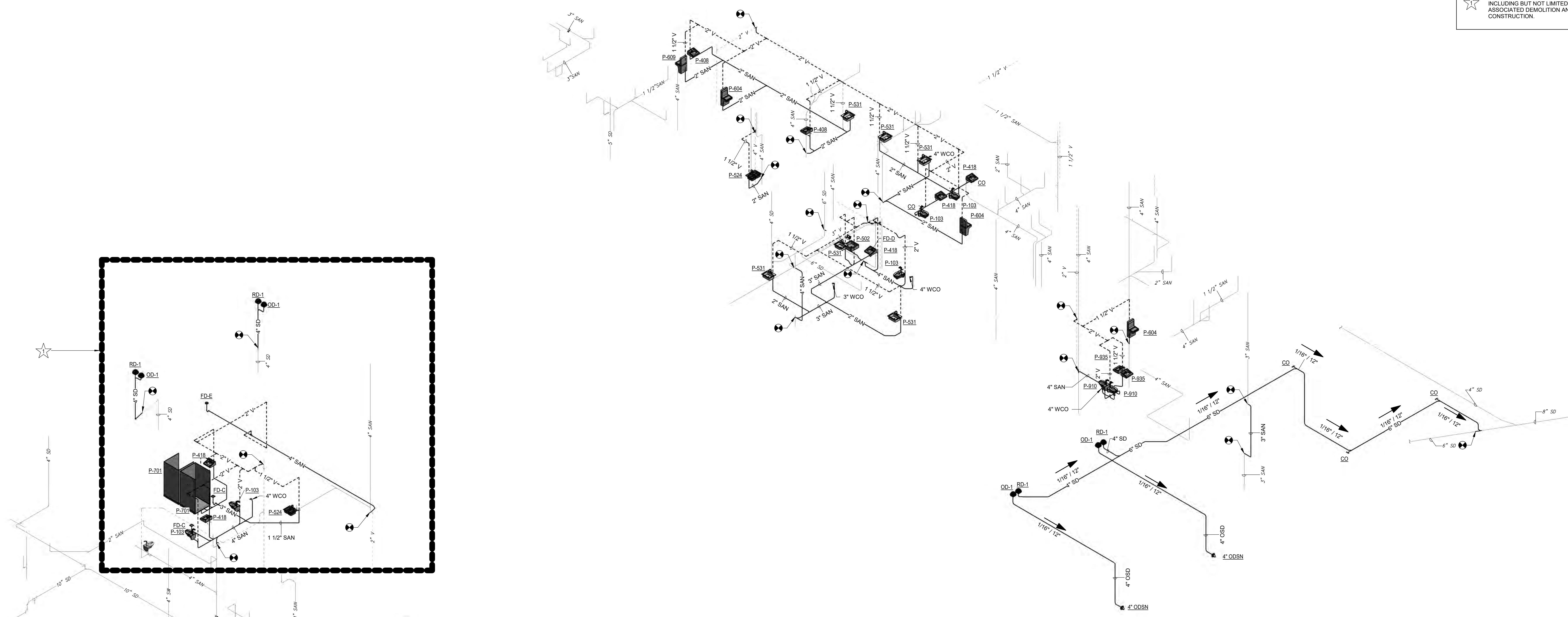
PLUMBING FIXTURE SCHEDULE										
MARK	DESCRIPTION	QUANTITY	WASTE PIPE	VENT PIPE	COLD WATER	HOT WATER	WRIST BLADE HANDLES	ELECTRIC SENSOR	REMARKS	
FD-C	FLOOR DRAIN, SQUARE, 3" OUTLET	5	3"	2"	-	-	-	-		
FD-D	FLOOR DRAIN, ROUND, 3" OUTLET	1	3"	2"	-	-	-	-		
FD-E	FLOOR DRAIN, ROUND, 4" OUTLET	1	4"	2"	-	-	-	-		
FD-Z	TRENCH DRAIN, RECTANGULAR, 2" OUTLET	2	2"	1 1/2"	-	-	-	-		
OD-1	OVERFLOW ROOF DRAIN	4	-	-	-	-	-	-		
OQSN	OVERFLOW DOWNSPOUT NOZZLE	2	-	-	-	-	6	3		BASIS OF DESIGN OF OVERFLOW OUTLETS ZURN Z199-DC
P-103	WATER CLOSET, FLUSH VALVE, WALL MOUNT, PUBLIC	10	4"	2"	1"	-	-	YES		
P-201	URINAL, SIPHON JET, HIGH	1	2"	1 1/2"	3/4"	-	-	YES		
P-204	URINAL, WASHOUT, LOW	3	2"	1 1/2"	3/4"	-	-	YES		
P-408	LAVATORY, WALL MOUNT, WRIST BLADES, PUBLIC	2	1 1/2"	1 1/2"	3/8"	3/8"	YES	NO		
P-418	LAVATORY, WALL MOUNT, SENSOR, PUBLIC	5	1 1/2"	1 1/2"	3/8"	3/8"	NO	YES		
P-420	LAVATORY, COUNTER MOUNT, SENSOR, PUBLIC	5	1 1/2"	1 1/2"	3/8"	3/8"	NO	YES		
P-502	SERVICE SINK, TERRAZO MOP	2	3"	1 1/2"	1/2"	1/2"	NO	NO		
P-524	SINK, COUNTER MOUNT, DOUBLE COMPARTMENT	2	1 1/2"	1 1/2"	3/8"	3/8"	NO	NO		
P-531	SINK, COUNTER MOUNT, SINGLE COMPARTMENT	6	1 1/2"	1 1/2"	3/8"	3/8"	NO	NO		
P-604	ELECTRIC WATER COOLER, WITH BOTTLE FILLER	3	1 1/2"	1 1/2"	3/8"	-	-	YES		
P-609	ELECTRIC WATER COOLER, DUAL HEIGHT, BOTTLE FILLER	1	1 1/2"	1 1/2"	3/8"	-	-	YES		
P-701	SHOWER BATH FIXTURE, DETACHABLE PLASTIC HOSE SPRAY, PUBLIC	2	2"	1 1/2"	1/2"	1/2"	-	NO		
P-910	WATER CLOSET, LIGATURE RESISTANT, FLOOR MOUNT HC, FLUSH VALVE	2	4"	2"	1"	-	-	YES		BASIS OF DESIGN WHITEHALL MODEL WH2142ADA-W-EGE10
P-935	LAVATORY, LIGATURE RESISTANT, HC	2	1 1/2"	1 1/2"	3/8"	3/8"	NO	YES		BASIS OF DESIGN WHITEHALL MODEL WH3740 WITH SENSOR
RD-1	PRIMARY ROOF DRAIN	4	-	-	-	3/8"	-	YES		
TP-1	TRAP PRIMER SINGLE	2	-	-	1/2"	-	-	-		
TP-2	TRAP PRIMER MULTIPLE	1	-	-	1/2"	-	-	-		

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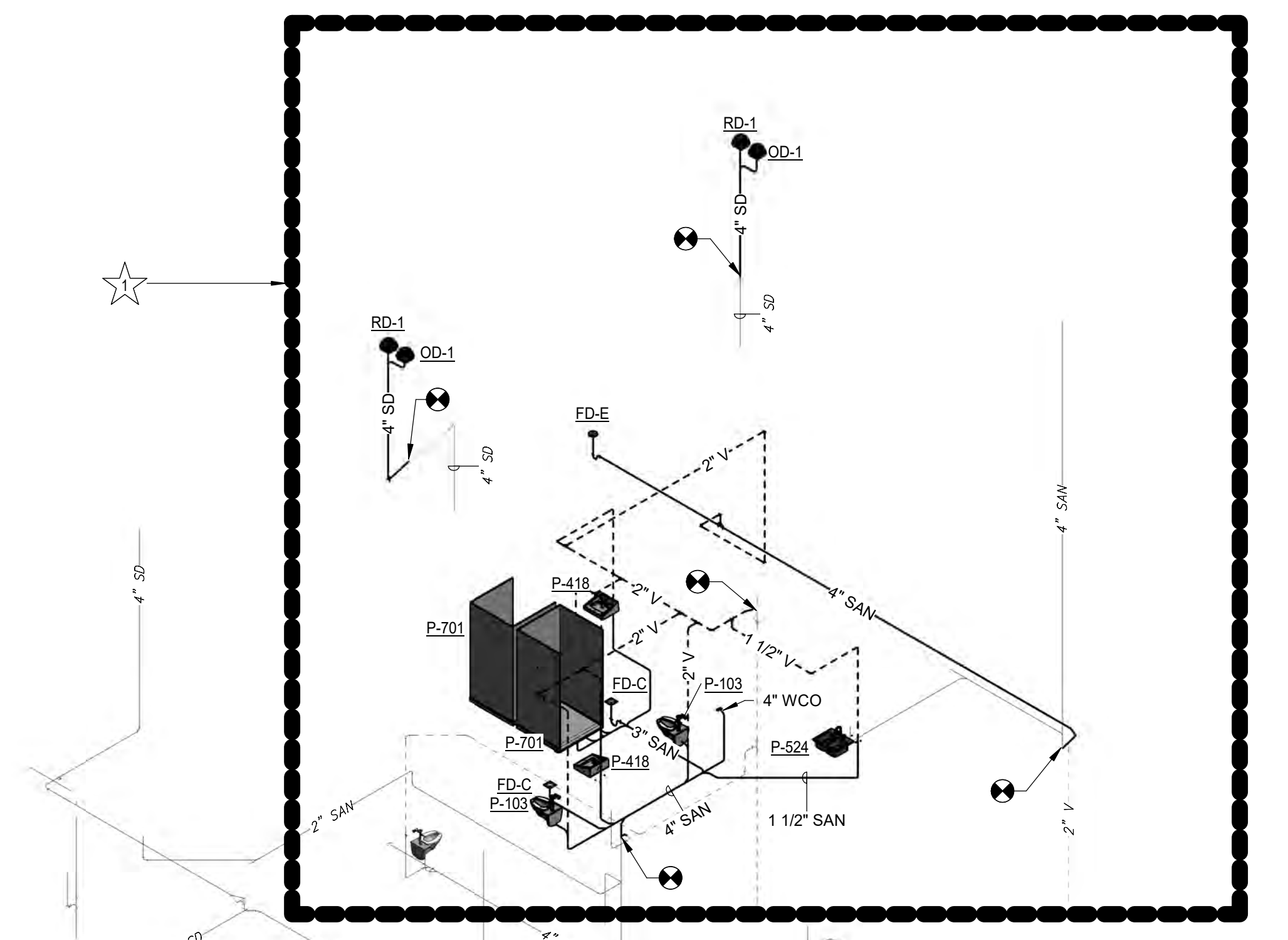
#	Revisions:	Date	CONSULTANTS:		<b>PROJECT MANAGER</b> ACG Project Number 20-083  Headquarters: <b>Apogee Consulting Group, P.A.</b> 1151 Kildaire Farm Road, Suite 120 Cary, North Carolina 27511 www.acg-pa.com 919-858-7420	Office of Construction and Facilities Management  U.S. Department of Veterans Affairs	Drawing Title <b>PLUMBING SCHEDULES</b>	Project Title <b>EXPAND MENTAL HEALTH CLINIC</b>	VA PROJECT NUMBER 693-352
							Location <b>WILKES-BARRE VA MEDICAL CENTER</b> 1111 EAST END BLVD WILKES-BARRE, PA 18711	Approved Date FEBRUARY 21, 2024	Checked SWR



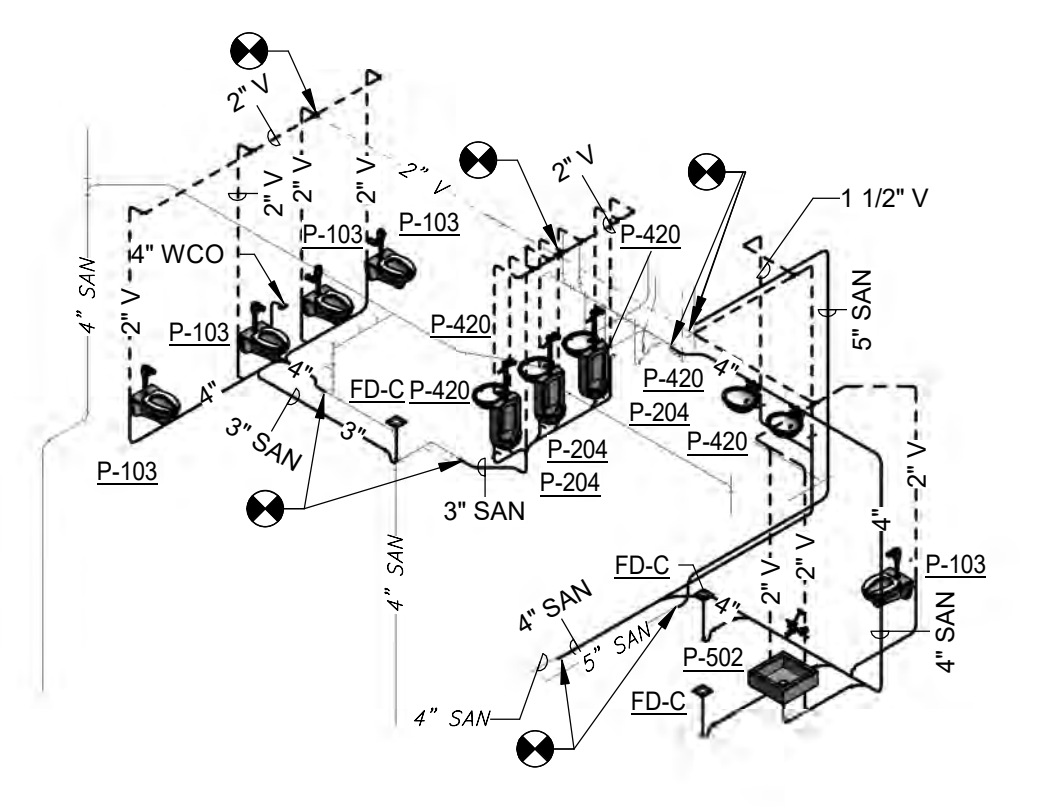
**DEDUCTIVE ALTERNATES:**  
 ☆ DELETE ALL WORK ASSOCIATED WITH THE NEW SECOND FLOOR POLICE SUITE, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED DEMOLITION AND NEW CONSTRUCTION.



**1 DRAIN, WASTE, AND VENT PIPE RISERS - AREA A**  
 Scale: No Scale



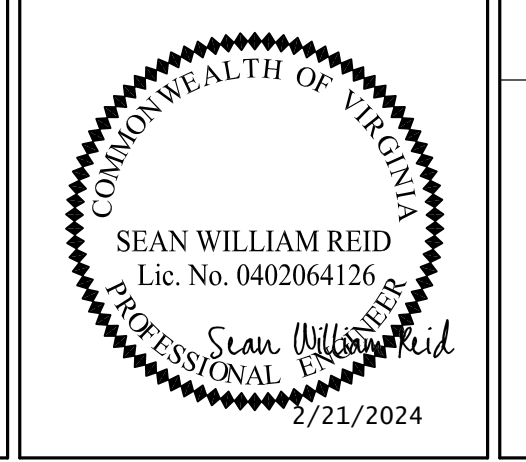
**2 DRAIN, WASTE, AND VENT PIPE RISERS - AREA B**  
 Scale: No Scale



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#	Revisions:	Date

**CONSULTANTS:**



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

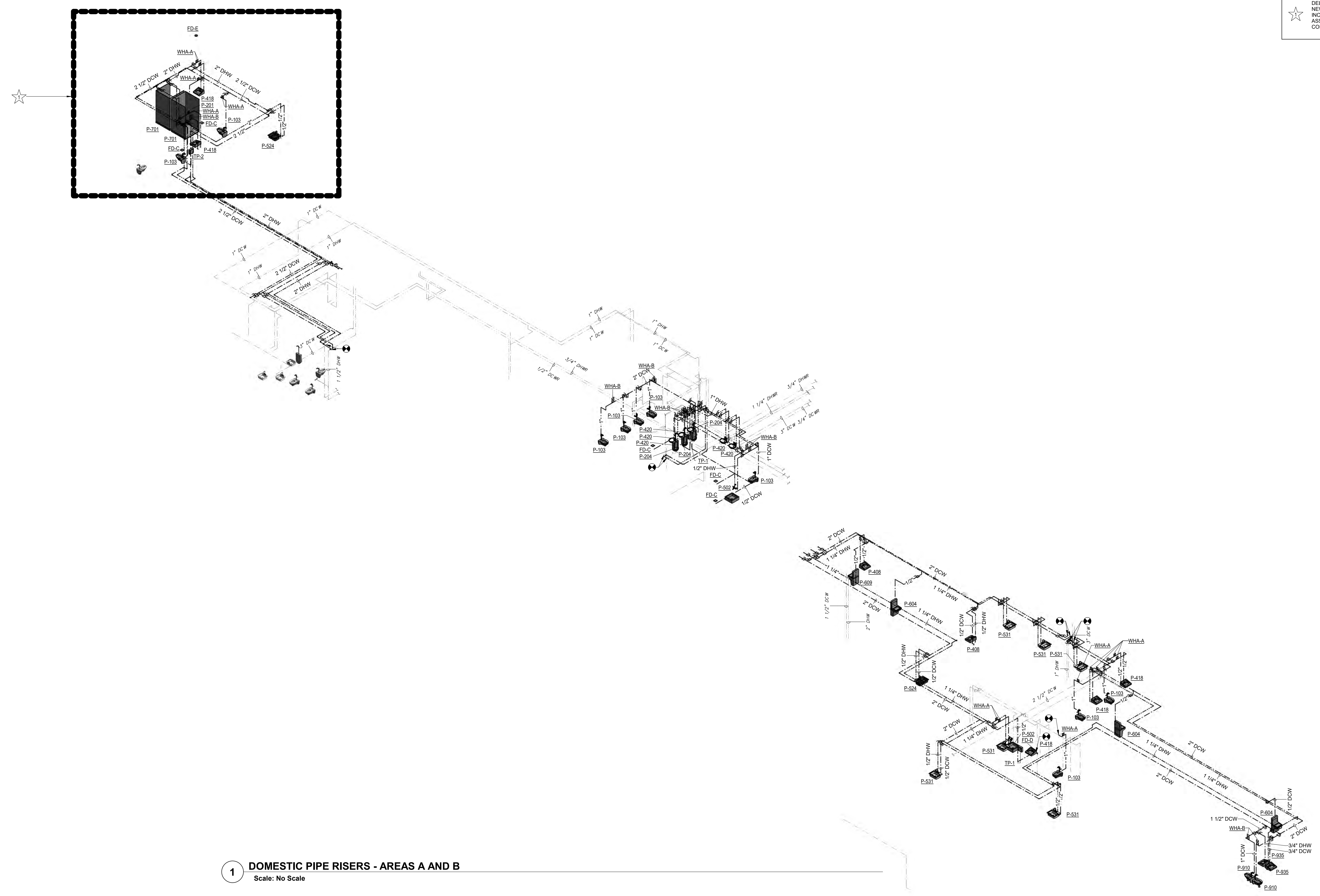
Drawing Title  
**DRAIN, WASTE, AND VENT PIPE RISERS - AREAS A AND B**  
 Location  
**WILKES-BARRE VA MEDICAL CENTER**  
 1111 EAST END BLVD  
 WILKES-BARRE, PA 18711

Project Title  
**EXPAND MENTAL HEALTH CLINIC**  
 Approved  
 Date  
 FEBRUARY 21, 2024  
 Checked  
 SWR  
 Drawn  
 SMR/TB

VA PROJECT NUMBER  
 693-352  
 Building Number  
 # 1  
 Drawing Number  
**P-901**  
 Dwg 21 of 22



**DEDUCTIVE ALTERNATES:**  
 ☆ DELETE ALL WORK ASSOCIATED WITH THE NEW SECOND FLOOR POLICE SUITE, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED DEMOLITION AND NEW CONSTRUCTION.



**1 DOMESTIC PIPE RISERS - AREAS A AND B**  
 Scale: No Scale

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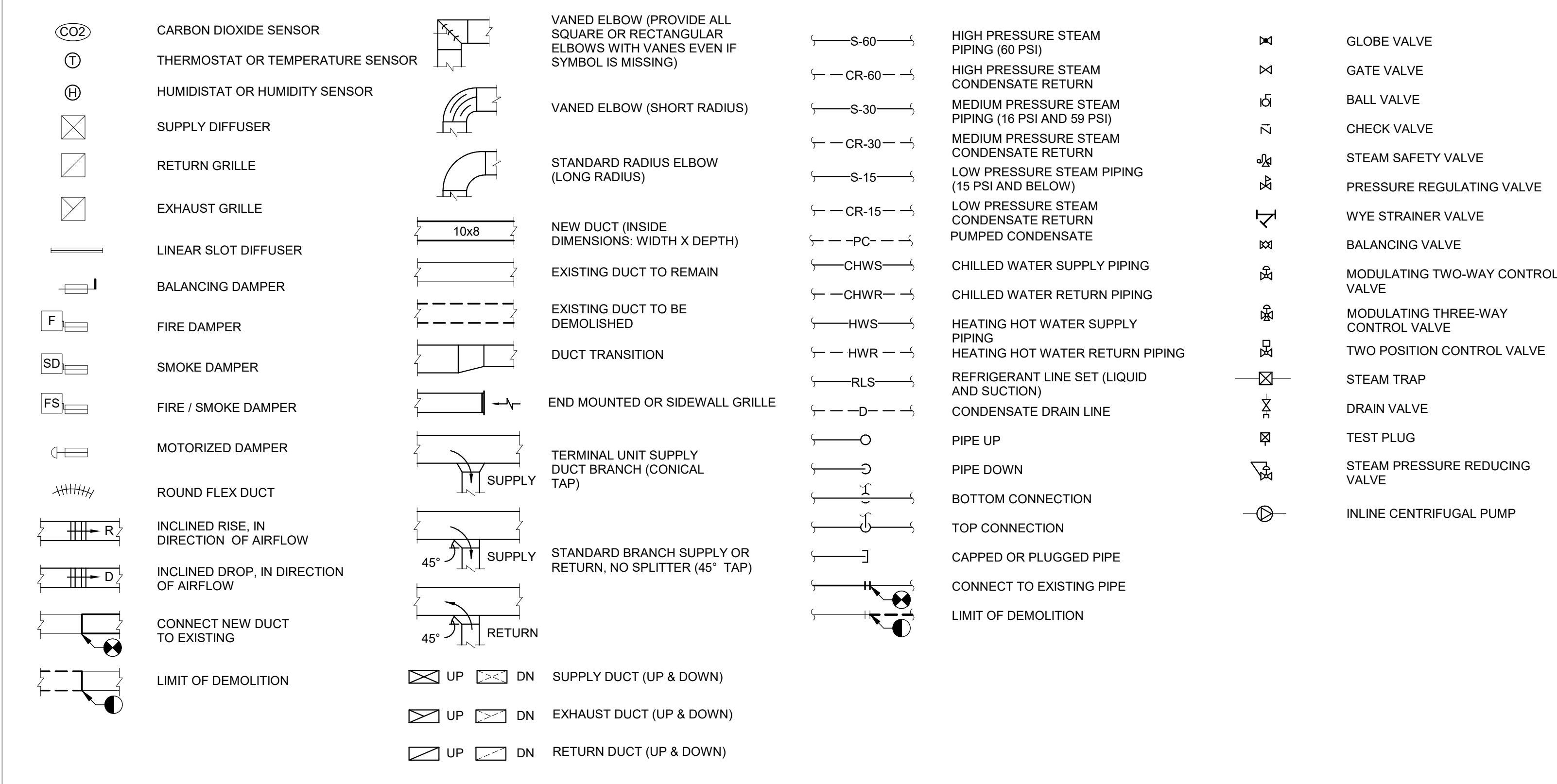
#	Revisions:	Date	CONSULTANTS:		<b>PROJECT MANAGER</b> ACG Project Number 20-083  <b>Apogee Consulting Group, P.A.</b> Headquarters: 1151 Kildaire Farm Road, Suite 120 Cary, North Carolina 27511 www.acg-pa.com 919-858-7420	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title <b>DOMESTIC PIPE RISERS - AREAS A AND B</b>	Project Title <b>EXPAND MENTAL HEALTH CLINIC</b>	VA PROJECT NUMBER 693-352
							Location <b>WILKES-BARRE VA MEDICAL CENTER                  1111 EAST END BLVD                  WILKES-BARRE, PA 18711</b>	Approved Date FEBRUARY 21, 2024 Checked SWR Drawn SMR/TB	Building Number # 1



### MECHANICAL ABBREVIATIONS

A/E	ARCHITECT / ENGINEER	DPA	DIFFERENTIAL PRESSURE	IN	INCHES	R/E	RETURN OR EXHAUST
A/HX	AIR TO AIR HEAT EXCHANGER	DPS	DIFFERENTIAL PRESSURE SENSOR	IN HG	INCHES OF MERCURY	RA	RETURN AIR
AB	AIR BLENDER	DX	DIRECT EXPANSION	IN WC	INCH WATER COLUMN	RAT	RETURN AIR TEMPERATURE
AAV	AUTOMATIC AIR VENT	DXCC	DIRECT EXPANSION COOLING COIL	IN WG	INCH WATER GAUGE	RDS	ROOM DATA SHEETS
ACC	AIR-COOLED CONDENSER	EA	EXHAUST AIR	IS	INCH-POUND	REA	RELIEF AIR
ACCH	AIR-COOLED CHILLER	EAT	ENTERING AIR TEMPERATURE	IPLV	INTEGRATED PART LOAD VALUE	RF	RETURN FAN
ACCU	AIR-COOLED CONDENSING UNIT	ECC	ENGINEERING CONTROL CENTER	IRH	INFRARED HEATER	RG	RETURN GRILLE
ACU	AIR CONDITIONING UNIT	EER	ENERGY EFFICIENCY RATIO	IS	INSECT SCREEN	RH	RELATIVE HUMIDITY
ACD	AUTOMATIC CONTROL DAMPER, MODULATING	EJ	EXHAUST JOINT	IV	INLET VANES	RHC	REHEAT COIL
ACD-TP	AUTOMATIC CONTROL DAMPER, TWO POSITION	EG	EXHAUST GRILLE	kg	KILOGRAM	RL	REFRIGERANT LIQUID LINE
AD	ACCESS DOOR	EGS	EMERGENCY GAS SHUTOFF	kg/HR	KILOGRAM PER HOUR	RLA	RUN LOAD AMPERE
AF	AFTER FILTER	ENT	ENTERING	kPa	KILOPASCAL	RPM	REVOLUTIONS PER MINUTE
AFCV	AIR FLOW CONTROL VALVE	EW	EXPANSION WHEEL	kW	KILOWATT	RS	REFRIGERANT SUCTION
AFM	AIR FLOW MEASURING DEVICE	EWJ	EXPANSION JOINT	kWh	KILOWATT HOUR	RTU	ROOF TOP UNIT
AFW	AIR FOIL WHEEL (FAN)	EMD	END OF MAIN DRIP (STEAM)	L	LITER	RV	RELIEF VALVE
AHU	AIR-HANDLING UNIT	ESP	EXTERNAL STATIC PRESSURE	L/6	LITERS PER SECOND	SA	SUPPLY AIR
AMP	AMPERAGE	EWT	ENTERING WATER TEMPERATURE	LAT	LEAVING AIR TEMPERATURE	SAD	SOUND ATTENUATING DEVICE
AP	ACCESS PANEL	EX	EXISTING	LBS/HR	POUNDS PER HOUR	SAT	SUPPLY AIR TEMPERATURE
APD	AIR PRESSURE DROP	F	FAHRENHEIT	LF	LINEAR FOOT (FEET)	SC	SHADING COEFFICIENT
ARI	AIR CONDITIONING AND REFRIGERATION INSTITUTE	FAT	FLOAT AND THERMOSTATIC COMBINATION FIRE SMOKE DAMPER	LH	LATENT HEAT	SCFM	STANDARD CUBIC FEET PER MINUTE
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	FA	FREE AREA	LPR	LOW PRESSURE RETURN (STEAM CONDENSATE)	SCR	SILICON CONTROLLED RECTIFIER
AW	AIR WASHER	FC	FLEXIBLE CONNECTION	LPS	LOW PRESSURE SUPPLY (STEAM)	SD	SMOKE DETECTOR
AXF	AXIAL FLOW	FCU	FAN COIL UNIT (4 PIPE)	LSB	LINEAR SLOT DIFFUSER	SDP	SUPPLY AIR DIFFUSER
B	BOILER	FCW	FORWARD CURVED WHEEL (FAN)	LTC	LOCAL TEMPERATURE CONTROL	SDR	SMOKE DAMPER (RETURN)
BD	BUTTERFLY DAMPER	FD	FLOOR DRAIN	LTV	LEAVING AIR TEMPERATURE	SDS	SMOKE DAMPER (SUPPLY)
BDD	BACKDRAFT DAMPER	FF	FIRE DAMPER	LWG	LEAVING WATER TEMPERATURE	SEN	SENSIBLE HEAT
BDR	BASE BOARD RADIATOR	FFM	FINAL FILTER	LWT	LEAVING WATER TEMPERATURE	SH	SUPPLY FAN
BFC	BACK FLOW PREVENTER	FFP	FLOW METER	M	METER, SI UNIT	SHC	STEAM HEATING COIL
BFT	BOILER PLANT FIRE TUBE	FPS	FEET PER SECOND	M	METER, SI UNIT	SIC	SQUARE INCHES
BHP	BRAKE HORSEPOWER	FPS	FEET PER SECOND (OR FIBER REINFORCED POLYESTER)	M	METER, SI UNIT	SP	STATIC PRESSURE
BHW	HOT WATER HEATING BOILER	FS	FLOW SWITCH	M	METER, SI UNIT	SP GR	SUPPLY PROCESS AND DISTRIBUTION
BHX	BOILER BLOWDOWN HEAT EXCHANGER	FSTAT	FREESTAT	MA	MIXED AIR	SPRV	STEAM PRESSURE REDUCING VALVE
BW	BACKWARD INCLINED WHEEL (FAN)	FT	FEET	MAT	MIXED AIR TEMPERATURE	SPS	STATIC PRESSURE SENSOR
BSC	BIOLOGICAL SAFETY CABINETS	FT-LB	FOOT-POUND	MAX	MAXIMUM	SO FT	SQUARE FOOT (FEET)
BTU	BRITISH THERMAL UNIT	FTR	FIN TUBE RADIATION	MB	MIXING BOX	SS	STAINLESS STEEL
BTUH	BRITISH THERMAL UNIT PER HOUR	FV	FACE VELOCITY	MIB	100 BTUH	SSR	SOLID SEPARATOR
C	CENTIGRADE (CELSIUS)	GA	GAUGE	MER	MECHANICAL EQUIPMENT ROOM MINIMUM EFFICIENCY REPORTING VALUE	ST	STEAM TRAP
CC	COOLING COIL	GAL	GALLONS	MHP	MOTOR HORSEPOWER	SV	STEAM SAFETY VALVE
CCD	COOLING COIL CONDENSATE DRAIN	GPD	GALLONS PER DAY	MIN	MINIMUM	T & PCV	TEMPERATURE AND PRESSURE CONTROL VALVE
CENT	CENTRIFUGAL	GPH	GALLONS PER HOUR	MM	MILLIMETER	TAB	TESTING, ADJUSTING, BALANCE
CFH	CUBIC FEET PER HOUR	GPM	GALLONS PER MINUTE	MOV	MOTOR OPERATED VALVE	TD	TEMPERATURE DIFFERENCE
CFM	CUBIC FEET PER MINUTE	GS	GALVANIZED STEEL	MPS	MEDIUM PRESSURE RETURN (STEAM CONDENSATE)	TDH	TOTAL DYNAMIC HEAD
CFM	CUBIC FEET PER MINUTE	H	HUMIDIFIER	MTD	MEAN TEMPERATURE DIFFERENCE	TDS	TOTAL DISSOLVED SOLIDS
CFM	CUBIC FEET PER MINUTE	H&CW	HOT & COLD WATER	MVD	MANUAL VOLUME DAMPER	TRAP	TRAP
CFM	CUBIC FEET PER MINUTE	HAC	HOUSEKEEPING AND CLOSET	NA	NOT APPLICABLE	TSP	TOTAL STATIC PRESSURE
CFP	CHEMICAL FEED PUMP	HB	HOSE BIBB	NC	NOISE CRITERIA	TSTAT	THERMOSTAT
CH	CHILLER	HC	HEATING COIL	NC	NORMALLY CLOSED	TU	TERMINAL UNIT
CHWP	CHILLED WATER PUMP	HD	HEAD	NO	NORMALLY OPEN	UC	UNDER CUT
CHW	CHILLER WATER	HD	HOOD	NOAA	NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	UH	UNIT HEATER
CHWR	CHILLED WATER RETURN	HHW	HEATING HOT WATER	NOM	NOMINAL	UL	UNDERWRITERS LABORATORY
CHWS	CHILLED WATER SUPPLY	HHWC	HEATING HOT WATER COIL	NPLV	NON-STANDARD PART LOAD VALUE	V	VALVE
CI	CAST IRON	HHWP	HEATING HOT WATER PUMP	NPSH	NET POSITIVE SUCTION HEAD	VAF	VANE-AXIAL FAN
CM	CARBON MONOXIDE	HHWR	HEATING HOT WATER RETURN	NTS	NOT TO SCALE	VAV	VARIABLE AIR VOLUME
CM	CARBON MONOXIDE	HHS	HEATING HOT WATER SUPPLY	OA	OUTSIDE AIR	VAV	VOLUME DAMPER (MANUAL OPPOSED BLADE)
CMS	CUBIC METER PER SECOND	HOA	HAND/OFF/AUTOMATIC HEAT PUMP	OD	OUTSIDE INTAKE	VI	VIBRATION ISOLATOR
CO	CLEAN OUT	HP	HORSEPOWER	OR	OPERATING ROOM	VJ	VACUUM JUMP
CO2	CARBON DIOXIDE	HPD	HIGH PRESSURE DRIP TRAP	OSA	OUTSIDE SUPPLY AIR (CONDITIONED)	VPS	VARIABLE PRIMARY SYSTEM
COMP	COMPRESSOR UNIT	HPR	HIGH PRESSURE RETURN (STEAM CONDENSATE)	P	PUMP	VR	VARIABLE SECONDARY SYSTEM
COP	COEFFICIENT OF PERFORMANCE	HPS	HIGH PRESSURE SUPPLY (STEAM)	PC	PUMPED CONDENSATE	VSD	VARIABLE SPEED DRIVE
CP	CONDENSATE PUMP	HRC	HEAT RECOVERY COIL	PCF	POUNDS PER CUBIC FOOT (FEET)	VUH	VERTICAL UNIT HEATER
CJ	CONDENSING UNIT	HRS	HEAT RECOVERY DEVICE	PF	PRESSURE DROP	W	WATER
CU	CABINET UNIT HEATER	HRP	HYDRONIC RADIANT (CEILING) PANEL	PF	PRE-FILTER	Wb	WET-BULB (TEMPERATURE)
CV	CONSTANT VOLUME	HRW	HEAT RECOVERY WHEEL	PG	PRESSURE GAGE	WFCV	WATER FLOW CONTROL VALVE
CW	COLD WATER (POTABLE)	HSTAT	HUMIDISTAT	PHC	PREHEAT COIL	WFM	WATER FLOW METER
CHWCC	CHILLED WATER COOLING COIL	HUM	HUMIDIFIER UNIT MOUNTED	PHCP	PREHEAT COIL PUMP	WFMD	WATER FLOW MEASURING DEVICE
D	DAMPER - AUTOMATIC	HVV	HEATING AND VENTILATING UNIT	PPM	PARTS PER MILLION	WG	WATER GAGE
D-1	OUTDOOR AIR DAMPER	HW	HOT WATER	PRV	PRESSURE REGULATING VALVE	WPD	WATER SIDE PRESSURE DROP
D-2	RETURN AIR DAMPER	HWC	HOT WATER COIL	PSI	POUNDS PER SQUARE INCH	XT	EXPANSION TANK
D-3	RELIEF AIR DAMPER	HWH	HOT WATER UNIT HEATER	PSIA	POUNDS PER SQUARE INCH - ABSOLUTE	YR	YEAR
D-4	ECONOMIZER OUTDOOR AIR DAMPER	HX	HEAT EXCHANGER	PSIG	POUNDS PER SQUARE INCH - GAGE		
dB	DECIBELS	I/O	INPUT/OUTPUT	PSI	POUNDS PER SQUARE INCH - ABSOLUTE		
Db	DRY-BULB TEMPERATURE	IAQ	INDOOR AIR QUALITY	PSI	POUNDS PER SQUARE INCH - ABSOLUTE		
DDC	DIRECT DIGITAL CONTROLS	IBT	INVERTED BUCKET TRAP	PSI	POUNDS PER SQUARE INCH - ABSOLUTE		
DEG	DEGREE	ICF	INLINE CENTRIFUGAL FAN	PSI	POUNDS PER SQUARE INCH - ABSOLUTE		
DF	DIFFUSER	ICU	INTENSIVE CARE UNIT	PSI	POUNDS PER SQUARE INCH - ABSOLUTE		
DI	DIAMETER	ID	INSIDE DIAMETER	PSV	PRIMARY SAFETY VALVE		
DIW	DEIONIZED WATER	IFB	INTEGRAL FACE AND BYPASS				
DP	DEW POINT TEMPERATURE						
DP	DIFFUSER PLATE						

### MECHANICAL LEGEND



### MECHANICAL DEMOLITION GENERAL NOTES

- VERIFY EXISTING CONDITIONS PRIOR TO BEGINNING WORK. NOTIFY COR REGARDING CONFLICTS BEFORE PROCEEDING WITH WORK.
- REMOVED ITEMS REMAIN PROPERTY OF GOVERNMENT UNLESS COR DETERMINES THAT THEY ARE NOT REQUIRED. REMOVE FROM SITE ITEMS NOT BEING RETAINED BY GOVERNMENT OR REINSTALLED AS PART OF THIS WORK.
- DO NOT DISTURB ITEMS NOT INDICATED FOR DEMOLITION.
- VERIFY SIZE AND LOCATION OF EXISTING UTILITIES PRIOR TO START OF DEMOLITION. RELOCATE, REMOVE AND ADJUST MECHANICAL AND ELECTRICAL ITEMS AS NECESSARY TO COORDINATE WITH NEW WORK.
- AFTER DEMOLITION IS COMPLETE, PATCH AND REPAIR FINISHES TO MATCH EXISTING ADJACENT CONDITIONS.
- COORDINATE DEMOLITION WITH COR. SUBMIT SHUTDOWN PLAN AND SCHEDULE TO COR FOR REVIEW AND APPROVAL.
- PROTECT EXISTING UTILITIES TO REMAIN FROM DAMAGE DURING DEMOLITION. REPAIR UTILITIES AND SERVICES DAMAGED AT NO ADDITIONAL COST.
- TEMPORARILY MOVE OR TAKE EQUIPMENT OUT OF SERVICE AS NECESSARY TO COMPLETE WORK.
- SAWCUT OR CORE DRILL CONCRETE FLOOR AS REQUIRED FOR DEMOLITION WORK INDICATED. COORDINATE WITH NEW MECHANICAL WORK AND WORK OF OTHER TRADES.

### MECHANICAL GENERAL NOTES

- WORK SHALL CONFORM TO APPLICABLE LOCAL, STATE, AND NATIONAL CODES AND APPLICABLE VA STANDARDS.
- INSTALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS.
- PROVIDE NEW MATERIALS, EQUIPMENT AND PRODUCTS INCORPORATED IN THE WORK, OF A SUITABLE GRADE FOR THE PURPOSES INTENDED.
- WHERE POSSIBLE, PROVIDE STANDARD PRODUCTS OF THE VARIOUS MANUFACTURERS EXCEPT WHERE SPECIAL CONSTRUCTION OR PERFORMANCE FEATURES ARE REQUIRED.
- EQUIPMENT OR MATERIAL DEVIATIONS FROM INDICATED CONTRACT REQUIREMENTS SHALL BE SUBJECT TO THE APPROVAL OF THE COR. SUBMIT PROPOSED EQUIPMENT DEVIATIONS THAT ARE SIMILAR BOTH IN QUALITY AND CAPACITY TO THAT EQUIPMENT SPECIFIED, AS SOLELY DETERMINED BY THE COR.
- PROVIDE MECHANICAL EQUIPMENT THAT IS LISTED AND LABELED BY UNDERWRITERS LABORATORIES (U.L.).
- INSTALL EQUIPMENT AS INDICATED, ALLOWING FOR SUFFICIENT ACCESS AND CLEARANCE SPACE FOR EQUIPMENT MAINTENANCE, REPAIRS, AND REPLACEMENT.
- INSTALL EQUIPMENT WITH PROPER CLEARANCES FOR REQUIRED PIPING AND ELECTRICAL SERVICES AND CONNECTIONS. INSTALL EQUIPMENT WITH REQUIRED ACCESS AND CLEARANCES IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS AND APPLICABLE CODES AND STANDARDS.
- COORDINATE LOCATION, INSTALLATION, AND ROUTING OF DUCTWORK, PIPING, AND EQUIPMENT WITH WORK OF ALL OTHER TRADES.
- PROVIDE SUPPORT FOR MECHANICAL EQUIPMENT. COORDINATE SUPPORT LOCATIONS WITH ALL CONTRACTORS PRIOR TO INSTALLATION.
- PROVIDE POWER CONNECTIONS TO EQUIPMENT PROVIDED UNDER THIS CONTRACT AS WORK OF DIVISION 26.
- PROVIDE CONTROL WIRING FOR MECHANICAL EQUIPMENT AS WORK OF DIVISION 23.
- DUCTWORK AND PIPING LAYOUTS AND LOCATIONS ARE SCHEMATIC. DO NOT SCALE THESE DRAWINGS. COORDINATE AND DETERMINE EXACT ROUTING OF DUCTWORK AND PIPING IN THE FIELD.
- FIELD VERIFY DIMENSIONS BY ACTUAL MEASUREMENT AND OBSERVATION BEFORE ORDERING OR FABRICATING DUCTWORK, PIPING OR EQUIPMENT.
- NOTIFY COR REGARDING DISCREPANCIES BETWEEN CONTRACT DOCUMENTS AND EXISTING CONDITIONS OR DIMENSIONS BEFORE PERFORMING WORK. FAILURE TO VERIFY AND REPORT SHALL CONSTITUTE CONTRACTOR'S ACCEPTANCE OF EXISTING CONDITIONS AS FIT FOR THE PROPER EXECUTION OF THE WORK.
- SEE ARCHITECTURAL DRAWINGS FOR FINAL LOCATION OF CEILING INSTALLED EQUIPMENT.
- INSTALL DUCTWORK AND PIPING AS HIGH AS POSSIBLE AND AS CLOSE AS POSSIBLE TO BUILDING WALLS, CEILING AND FLOOR AND ROOF STRUCTURE. PROVIDE OFFSETS, FITTINGS, AND DIMENSIONAL TRANSITIONS NOT SHOWN BUT REQUIRED TO MAINTAIN MINIMUM CLEAR SPACE TO BUILDING SURFACES AT NO ADDITIONAL COST.
- PATCH, PAINT AND CLEAN SURFACES SUSTAINING DAMAGE ASSOCIATED WITH MECHANICAL WORK OF THIS CONTRACT, UNLESS NOTED OTHERWISE.
- SUBMIT BOUND SET OF OPERATING AND MAINTENANCE INSTRUCTIONS FOR EQUIPMENT AT COMPLETION OF PROJECT.
- INSTALL ESCUTCHEONS IN ALL PLACES WHERE PIPING PENETRATES A WALL IN AN EXPOSED LOCATION.
- MAKE A COMPLETE REVIEW OF DRAWINGS, INCLUDING SCHEDULES AND DETAILS, PRIOR TO BEGINNING MECHANICAL SYSTEM INSTALLATION. RESOLVE CONFLICTS WITH COR.
- DRAWING PLANS, SCHEMATICS, AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF PIPING SYSTEMS.
- INSTALL PIPING INDICATED TO BE EXPOSED AND PIPING IN EQUIPMENT ROOMS AND SERVICE AREAS AT RIGHT ANGLES OR PARALLEL TO BUILDING WALLS. DIAGONAL RUNS ARE NOT ACCEPTABLE UNLESS SPECIFICALLY INDICATED OTHERWISE.
- INSTALL PIPING FREE OF SAGS AND BENDS.
- INSTALL PIPING TO ALLOW APPLICATION OF INSULATION.
- PIPING SHALL NOT BE ROUTED OVER TELECOM OR ELECTRICAL CLOSETS/ROOMS.
- PREPARE DRAWINGS SHOWING MECHANICAL SYSTEMS AND EQUIPMENT FOR COORDINATION WITH WORK OF OTHER DIVISIONS AND WORK BY THE GOVERNMENT.
  - INCLUDE PLAN VIEWS, SECTIONS, AND ELEVATIONS, AS REQUIRED, TO FULLY COORDINATE ALL NEW WORK WITH ITSELF AND EXISTING CONDITIONS.
  - DRAWINGS SHALL SHOW, BUT NOT BE LIMITED TO, ALL DUCTWORK, AIR DISTRIBUTION, MECHANICAL EQUIPMENT, MECHANICAL PIPING, FIRE PROTECTION PIPING, PLUMBING PIPING, CABLE TRAYS, LIGHTING FIXTURES, CEILING GRID AND HEIGHT, BEAMS AND JOISTS (WITH ELEVATIONS MARKED), ELECTRICAL CONDUIT LARGER THAN 2 INCHES IN DIAMETER AND OTHER CEILING MOUNT DEVICES OR EQUIPMENT THAT PROTRUDE INTO THE CEILING CAVITY.
  - IF THERE ARE OUTSTANDING ISSUES THAT CANNOT BE RESOLVED, CONSULT WITH COR FOR GUIDANCE AND MAKE CORRECTIONS IN ACCORDANCE WITH DIRECTIONS GIVEN.
  - DO NOT BEGIN FABRICATION OR PLACE EQUIPMENT ORDERS UNTIL COORDINATION DRAWINGS HAVE BEEN APPROVED.
- INSTALLATION COMMENCED PRIOR TO COORDINATION DRAWING APPROVAL IS TAKEN AT THE CONTRACTORS OWN RISK. MODIFY, MOVE OR RECONFIGURE WORK LACKING COORDINATION AT NO ADDITIONAL COST.

### ANNOTATION SYMBOLS

	NEW WORK KEYNOTE
	DEMOLITION KEYNOTE
	BOLD TEXT INDICATES NEW ITEM
	ITALICIZED TEXT INDICATES EXISTING ITEM
	DETAIL MODULE NUMBER
	DETAIL OR SECTION MARK SHOWN ON DRAWING
	CONNECT TO EXISTING
	LIMIT OF DEMOLITION
	DIFFUSER TAG
	EQUIPMENT TAG

### DEDUCTIVE ALTERNATES:

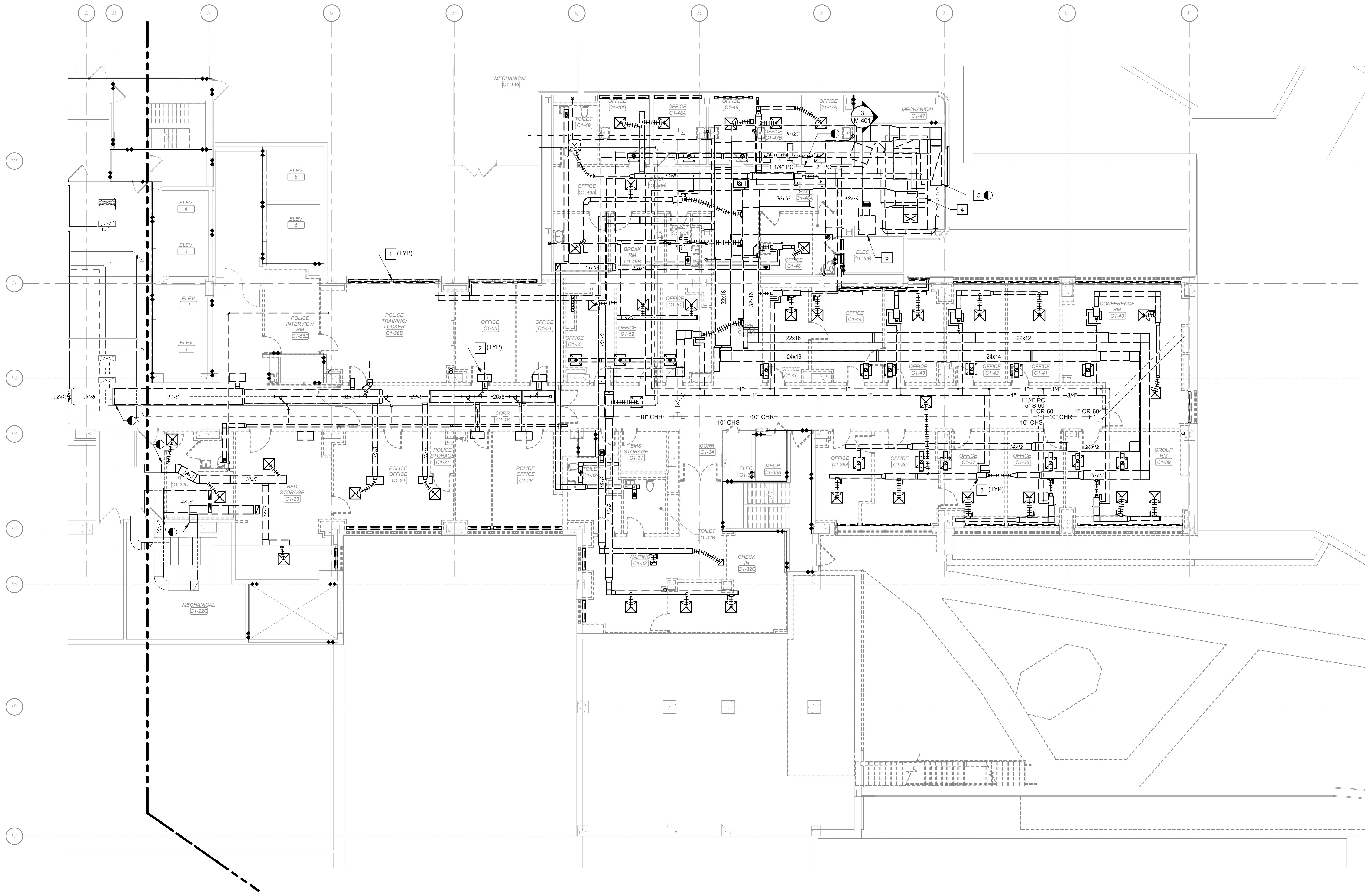
DELETE ALL WORK ASSOCIATED WITH THE NEW SECOND FLOOR POLICE SUITE, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED DEMOLITION AND NEW CONSTRUCTION.

### FULLY SPRINKLERED 100% CONSTRUCTION DOCUMENTS

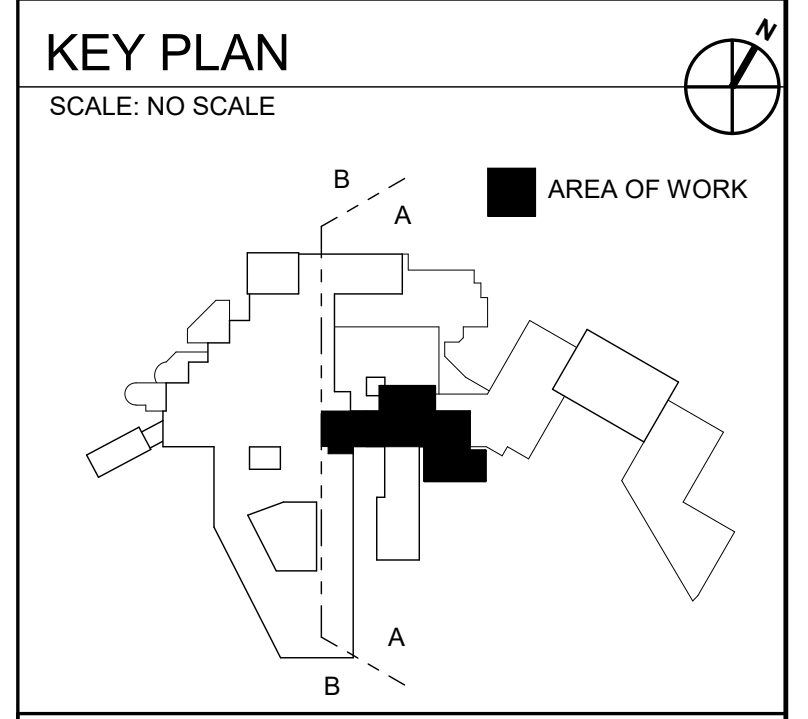
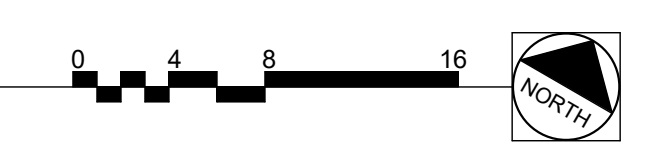
CONSULTANTS:				<b>PROJECT MANAGER</b> ACG Project Number 20-083 Headquarters: <b>Apogee Consulting Group, P.A.</b> 1151 Kildaire Farm Road, Suite 120 Cary, North Carolina 27511 www.acg-pa.com 919-858-7420		Office of Construction and Facilities Management U.S. Department of Veterans Affairs		Drawing Title <b>MECHANICAL GENERAL INFORMATION</b> Location <b>WILKES-BARRE VA MEDICAL CENTER</b> 1111 EAST END BLVD WILKES-BARRE, PA 18711		Project Title <b>EXPAND MENTAL HEALTH CLINIC</b> Approved Date FEBRUARY 21, 2024		VA PROJECT NUMBER 693-352 Building Number # 1 Drawing Number <b>M-001</b> Dwg 1 of 16	
#	Revisions:	Date											



- KEY NOTES:**
- 1 DEMOLISH STEAM RADIATORS AND ASSOCIATED PIPING TO FLOOR AND CAP.
  - 2 DEMOLISH FAN COIL UNIT AND ASSOCIATED PIPING TO MAINS.
  - 3 DEMOLISH VAV BOX AND ASSOCIATED PIPING.
  - 4 DEMOLISH EXISTING AHU AND ASSOCIATED PIPING.
  - 5 DEMOLISH DUCTWORK UP TO THE EXISTING TO REMAIN LOUVER.
  - 6 DEMOLISH STEAM CONDENSATE PUMP AND ASSOCIATED STEAM EQUIPMENT.



**1 FIRST FLOOR MECHANICAL DEMOLITION - AREA A**  
 Scale: 1/8" = 1'-0"



**WALL RATING LEGEND**

	SMOKE RESISTIVE HAZARDOUS AREA
	1 HR - FIRE BARRIER
	1 HR - SMOKE BARRIER
	2 HR - FIRE BARRIER
	2 HR - SMOKE BARRIER

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**100% CONSTRUCTION DOCUMENTS**

#	Revisions:	Date

**CONSULTANTS:**



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 SEAN WILLIAM REID  
 PROFESSIONAL ARCHITECT  
 1/21/2024

**PROJECT MANAGER**  
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Office of  
 Construction  
 and Facilities  
 Management  
  
 U.S. Department  
 of Veterans Affairs

Drawing Title  
**FIRST FLOOR MECHANICAL  
 DEMOLITION PLAN - AREA A**  
 Location  
**WILKES-BARRE VA MEDICAL CENTER**  
 1111 EAST END BLVD  
 WILKES-BARRE, PA 18711

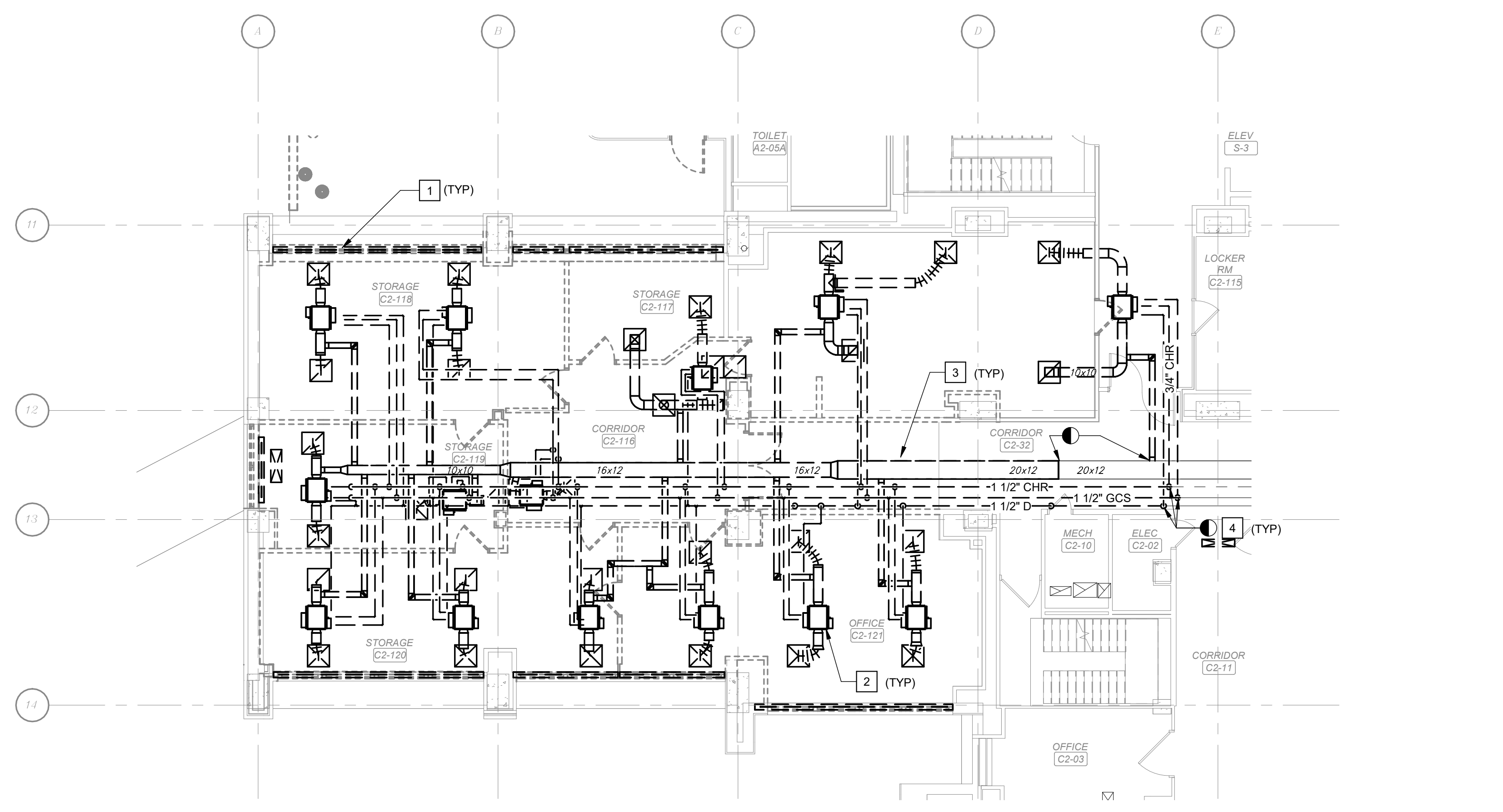
Project Title  
**EXPAND MENTAL HEALTH  
 CLINIC**  
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 SWR  
 Drawn  
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VA PROJECT NUMBER  
 693-352  
 Building Number  
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 Drawing Number  
**MD101A**  
 Dwg 2 of 16

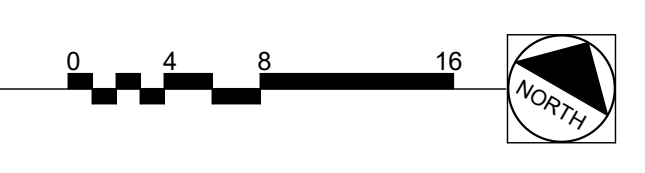








★ 1 SECOND FLOOR MECHANICAL DEMOLITION PLAN - AREA B  
 Scale: 1/8" = 1'-0"



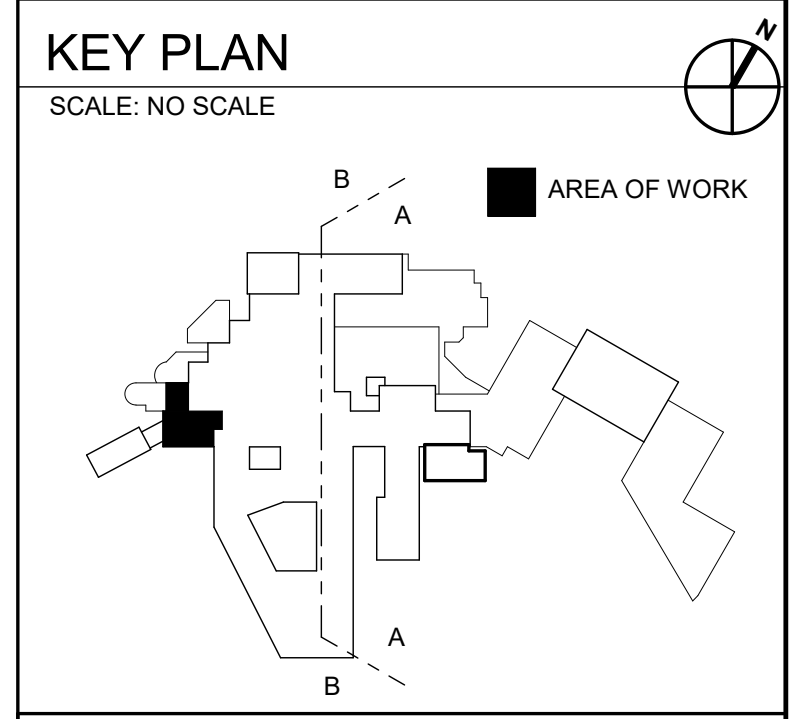
**KEY NOTES:**

- 1 DEMOLISH STEAM RADIATORS AND ASSOCIATED PIPING TO FLOOR AND CAP.
- 2 DEMOLISH FAN COIL UNIT AND ASSOCIATED PIPING TO MAINS.
- 3 DEMOLISH DUCTWORK, INSULATION, AND HANGERS COMPLETE.
- 4 DEMOLISH CHS / CHR AND DRAIN PIPING, INSULATION, AND HANGERS COMPLETE.

**DEDUCTIVE ALTERNATES:**

★ DELETE ALL WORK ASSOCIATED WITH THE NEW SECOND FLOOR POLICE SUITE, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED DEMOLITION AND NEW CONSTRUCTION.

ALL WORK ON THIS SHEET IS ASSOCIATED WITH BID DEDUCT 1 AND MUST BE DELETED.



**WALL RATING LEGEND**

	SMOKE RESISTIVE HAZARDOUS AREA
	1 HR - FIRE BARRIER
	1 HR - SMOKE BARRIER
	2 HR - FIRE BARRIER
	2 HR - SMOKE BARRIER

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#	Revisions:	Date

**CONSULTANTS:**



**PROJECT MANAGER**  
 ACG Project Number 20-083

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

Drawing Title  
**SECOND FLOOR MECHANICAL DEMOLITION PLAN - AREA B**

Location  
**WILKES-BARRE VA MEDICAL CENTER**  
 1111 EAST END BLVD  
 WILKES-BARRE, PA 18711

Project Title  
**EXPAND MENTAL HEALTH CLINIC**

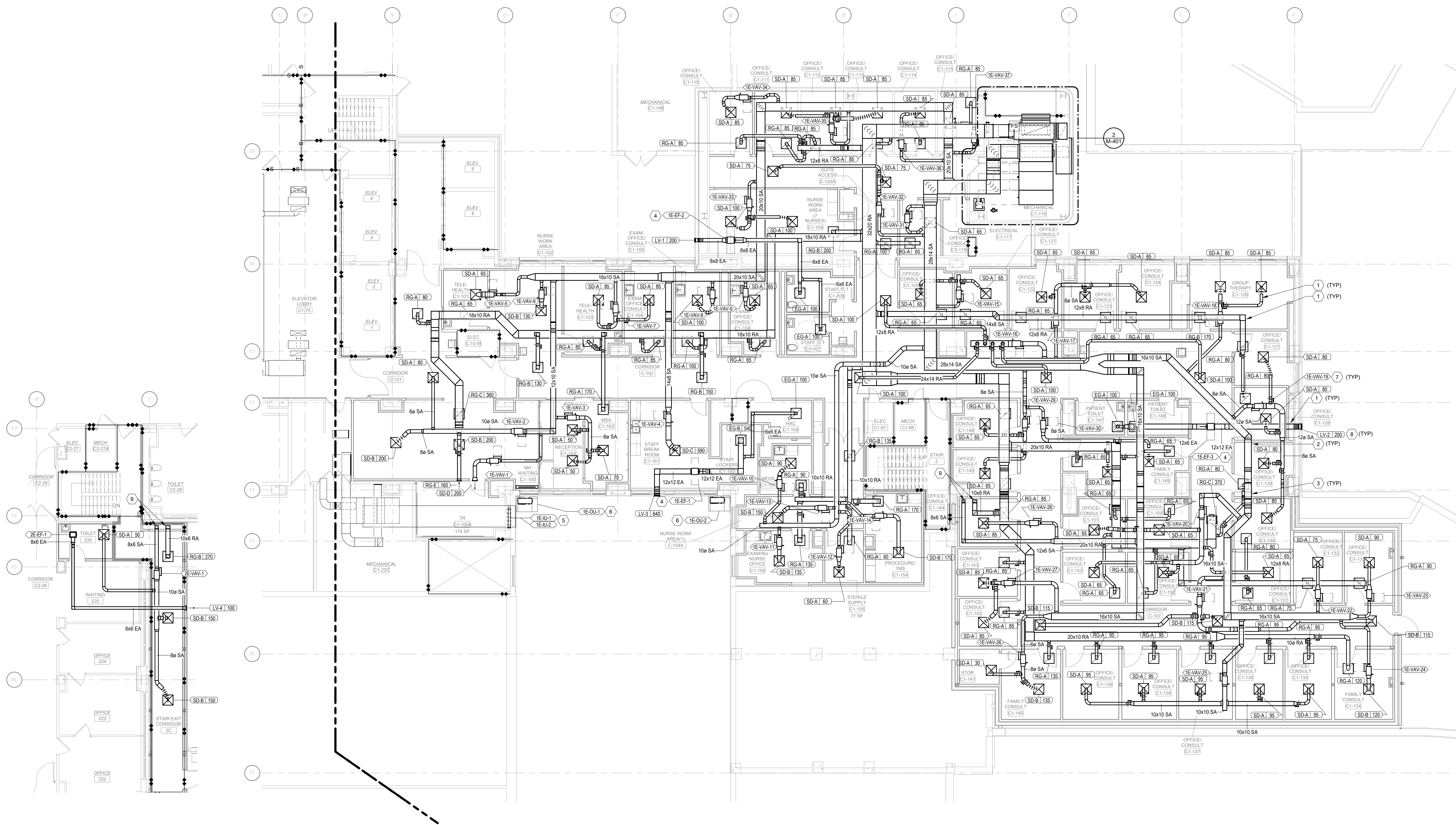
Approved  
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VA PROJECT NUMBER 693-352  
 Building Number # 1  
 Drawing Number **MD102B**  
 Dwg 4 of 16



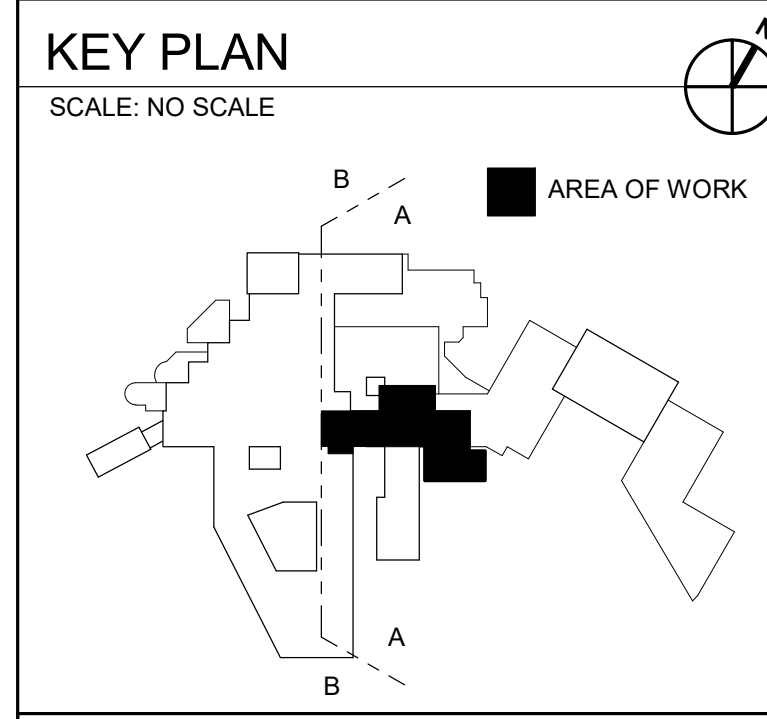
**KEY NOTES:**

- 1 PROVIDE LOW PRESSURE DUCTWORK, INSULATION, AND HANGERS COMPLETE ON ALL DUCTWORK FOR EXHAUST, RETURN, AND SUPPLY DUCTWORK AFTER TERMINAL UNITS.
- 2 PROVIDE MEDIUM PRESSURE DUCTWORK, INSULATION, AND HANGERS COMPLETE ON ALL SUPPLY DUCTWORK SUPPLY DUCTWORK BEFORE TERMINAL UNITS.
- 3 LOW POINT BETWEEN OLD BUILDING AND NEW BUILDING. DUCTWORK MUST BE RAN OVER ROOMS AND DROPPED TO PASS UNDER OBSTRUCTIONS.
- 4 PROVIDE IN-LINE EXHAUST FAN, HANGERS, AND DUCTWORK COMPLETE.
- 5 PROVIDE STACKED INDOOR SPLIT SYSTEMS.
- 6 PROVIDE OUTDOOR UNIT FOR SPLIT SYSTEM, PROVIDE CONCRETE PAD.
- 7 PROVIDE VAV TERMINAL UNIT, PIPING, VALVES, INSULATION, AND HANGERS COMPLETE.
- 8 PROVIDE EXHAUST LOUVER. LOUVER MUST BE BLAST PROOF.
- 9 PROVIDE DUCTWORK THROUGH CEILING IN ROOM C2-27 TO EXIT CORRIDOR C-2 CHASE. SHOWN ON 1/ MH101A AND 2/ MH101A. PROVIDE 2 HOUR FIRE DAMPER AT FLOOR OF BOTH DUCT PENETRATIONS.



**2 SECOND FLOOR EXIT CORRIDOR ADDITION**  
 Scale: 1/8" = 1'-0"

**1 FIRST FLOOR HVAC - AREA A**  
 Scale: 1/8" = 1'-0"



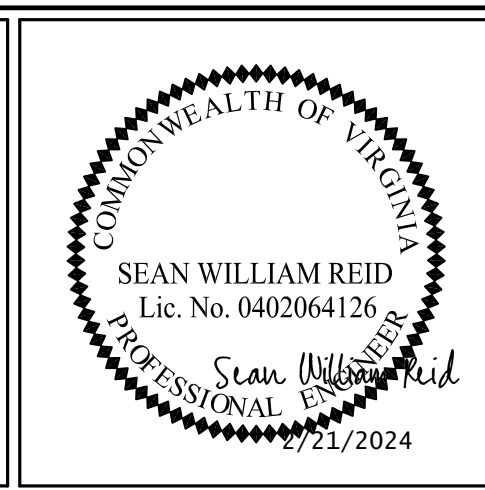
**WALL RATING LEGEND**

	SMOKE RESISTIVE HAZARDOUS AREA
	1 HR - FIRE BARRIER
	1 HR - SMOKE BARRIER
	2 HR - FIRE BARRIER
	2 HR - SMOKE BARRIER

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**CONSULTANTS:**



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

Drawing Title  
**FIRST FLOOR HVAC PLAN - AREA A AND SECOND FLOOR EXIT CORRIDOR**  
 Location  
**WILKES-BARRE VA MEDICAL CENTER  
 1111 EAST END BLVD  
 WILKES-BARRE, PA 18711**

Project Title  
**EXPAND MENTAL HEALTH CLINIC**  
 Approved  
 Date: FEBRUARY 21, 2024  
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 693-352  
 Building Number  
 # 1  
 Drawing Number  
**MH101A**  
 Dwg 5 of 16





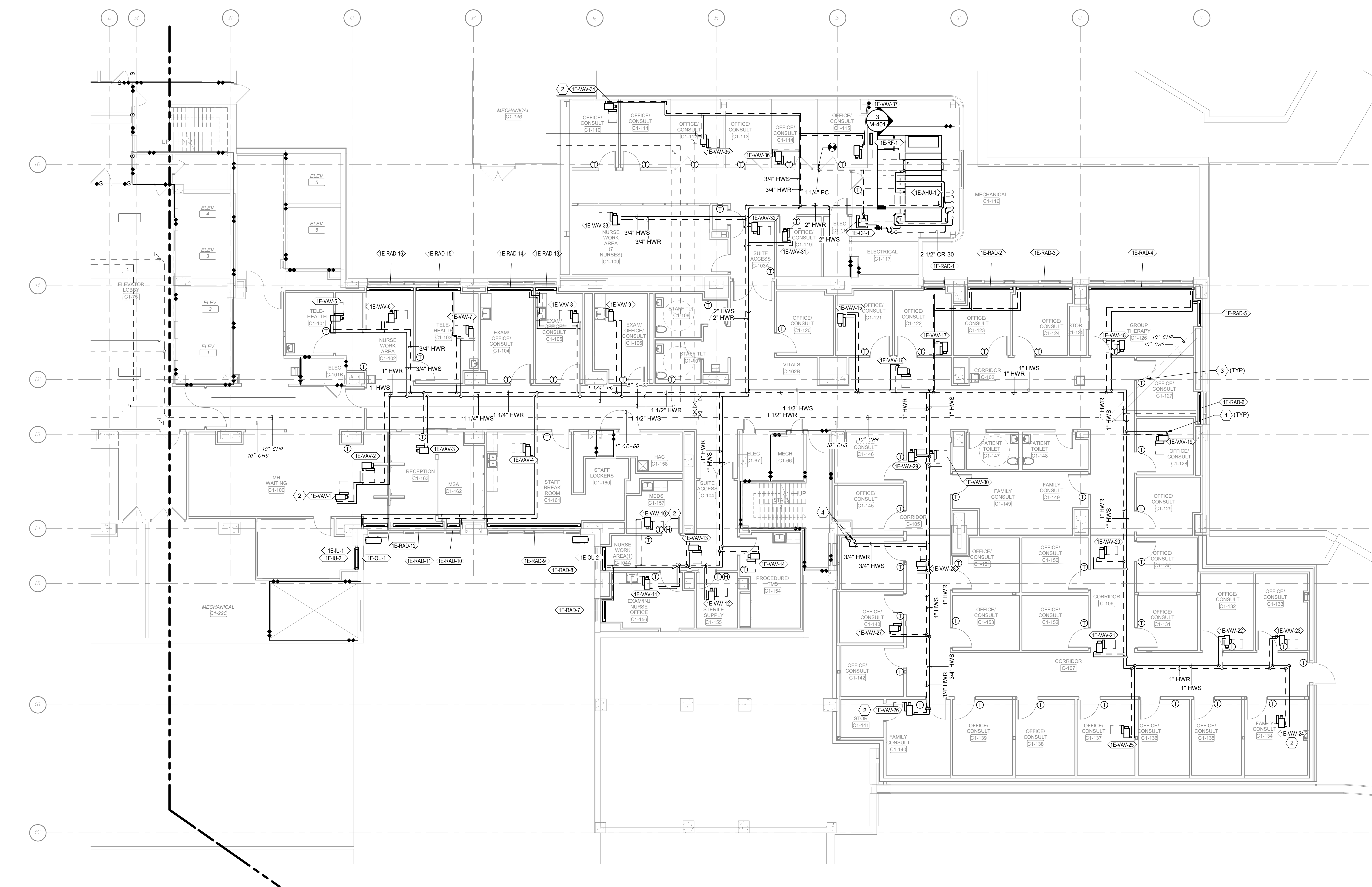






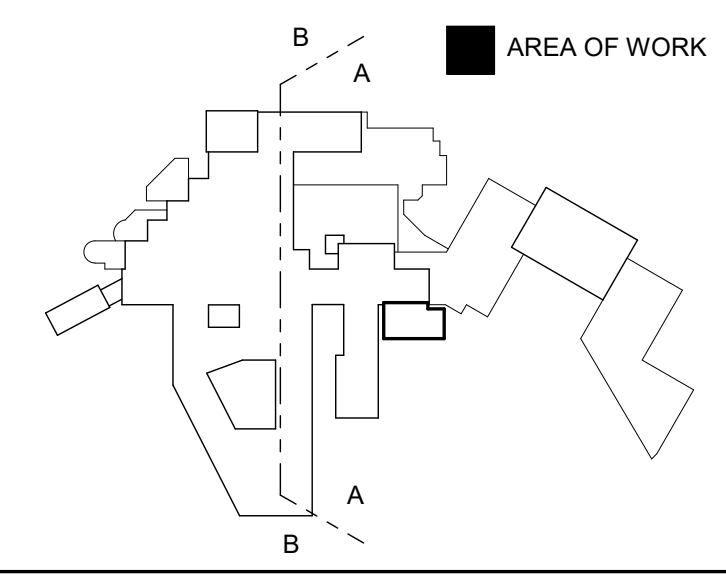
**KEY NOTES:**

- 1 PROVIDE VAV TERMINAL UNIT, PIPING, VALVES, INSULATION, AND HANGERS COMPLETE.
- 2 PROVIDE WITH 3 WAY VALVE
- 3 PROVIDE THERMOSTAT APPROX. 42" AFF. REFER TO ARCHITECTURAL FOR EXACT LOCATION. FOR VAV BOXES WITH MULTIPLE THERMOSTATS THE THERMOSTATS MUST BE PROGRAMMED AS A MASTER / SLAVE SYSTEM.
- 4 EXIT CORRIDOR C-2 CHASE. ROUTE PIPING TO NEW VAV BOX SHOWN ON 11/01/101A.



**1 FIRST FLOOR MECHANICAL PIPING - AREA A**  
Scale: 1/8" = 1'-0"

**KEY PLAN**  
SCALE: NO SCALE



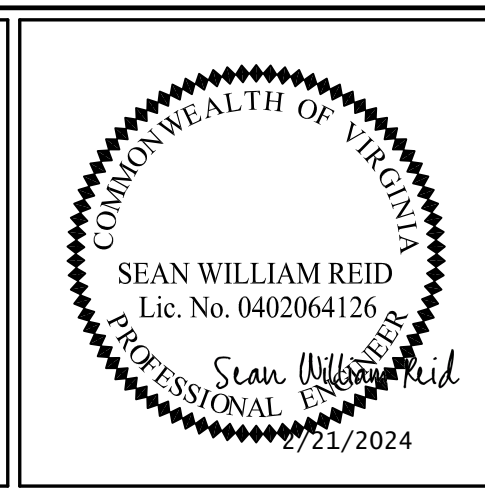
**WALL RATING LEGEND**

	SMOKE RESISTIVE HAZARDOUS AREA
	1 HR - FIRE BARRIER
	1 HR - SMOKE BARRIER
	2 HR - FIRE BARRIER
	2 HR - SMOKE BARRIER

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

Drawing Title  
**FIRST FLOOR MECHANICAL PIPING PLAN - AREA A**  
Location  
**WILKES-BARRE VA MEDICAL CENTER**  
1111 EAST END BLVD  
WILKES-BARRE, PA 18711

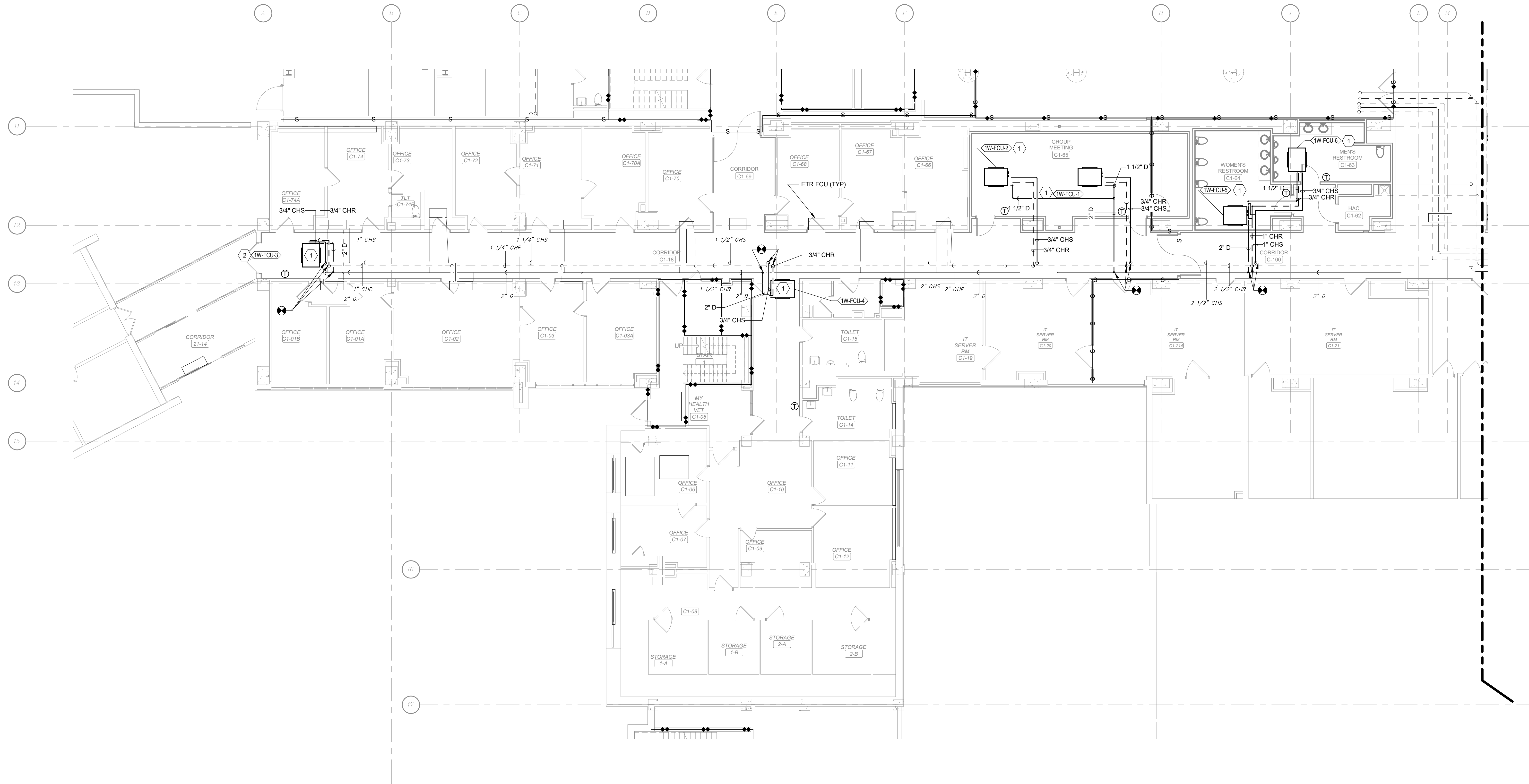
Project Title  
**EXPAND MENTAL HEALTH CLINIC**  
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Date  
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SWR

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Drawing Number  
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Dwg 8 of 16



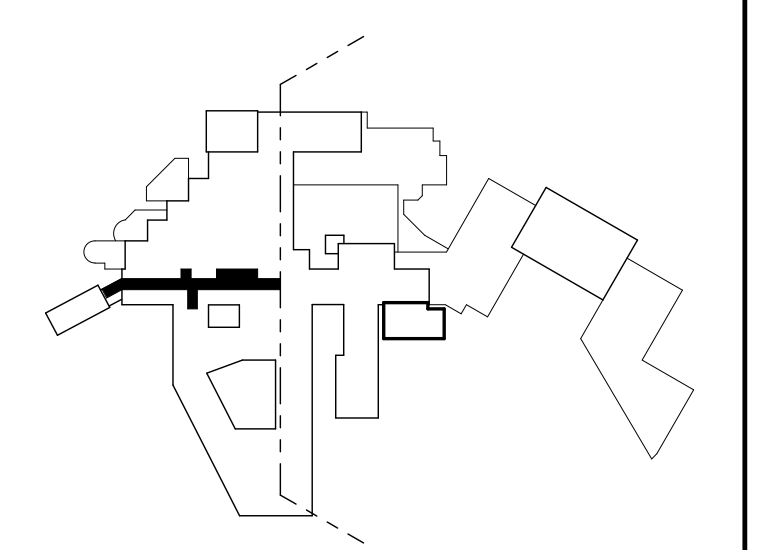
**KEY NOTES:**

- 1 PROVIDE CHS / CHR AND DRAIN PIPING, INSULATION AND HANGERS TO NEW FCU. PROVIDE ALL VALVES AND FITTINGS.
- 2 PROVIDE WITH 3 WAY VALVE.



**1 FIRST FLOOR MECHANICAL PIPING - AREA B**  
 Scale: 1/8" = 1'-0"

**KEY PLAN**  
 SCALE: NO SCALE



**WALL RATING LEGEND**

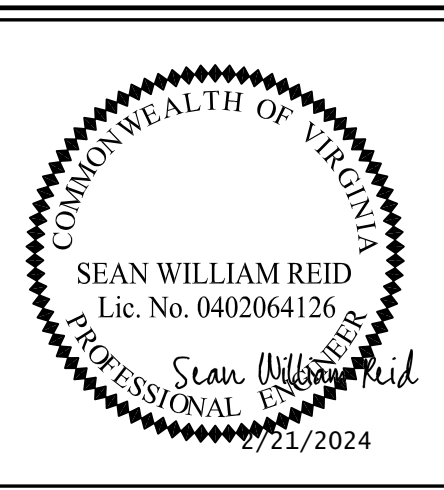
	SMOKE RESISTIVE HAZARDOUS AREA
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	1 HR - SMOKE BARRIER
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Office of  
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 and Facilities  
 Management  
**VA** U.S. Department  
 of Veterans Affairs

Drawing Title  
**FIRST FLOOR MECHANICAL PIPING  
 PLAN - AREA B**  
 Location  
**WILKES-BARRE VA MEDICAL CENTER  
 1111 EAST END BLVD  
 WILKES-BARRE, PA 18711**

Project Title  
**EXPAND MENTAL HEALTH  
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**MP101B**  
 Dwg 9 of 16

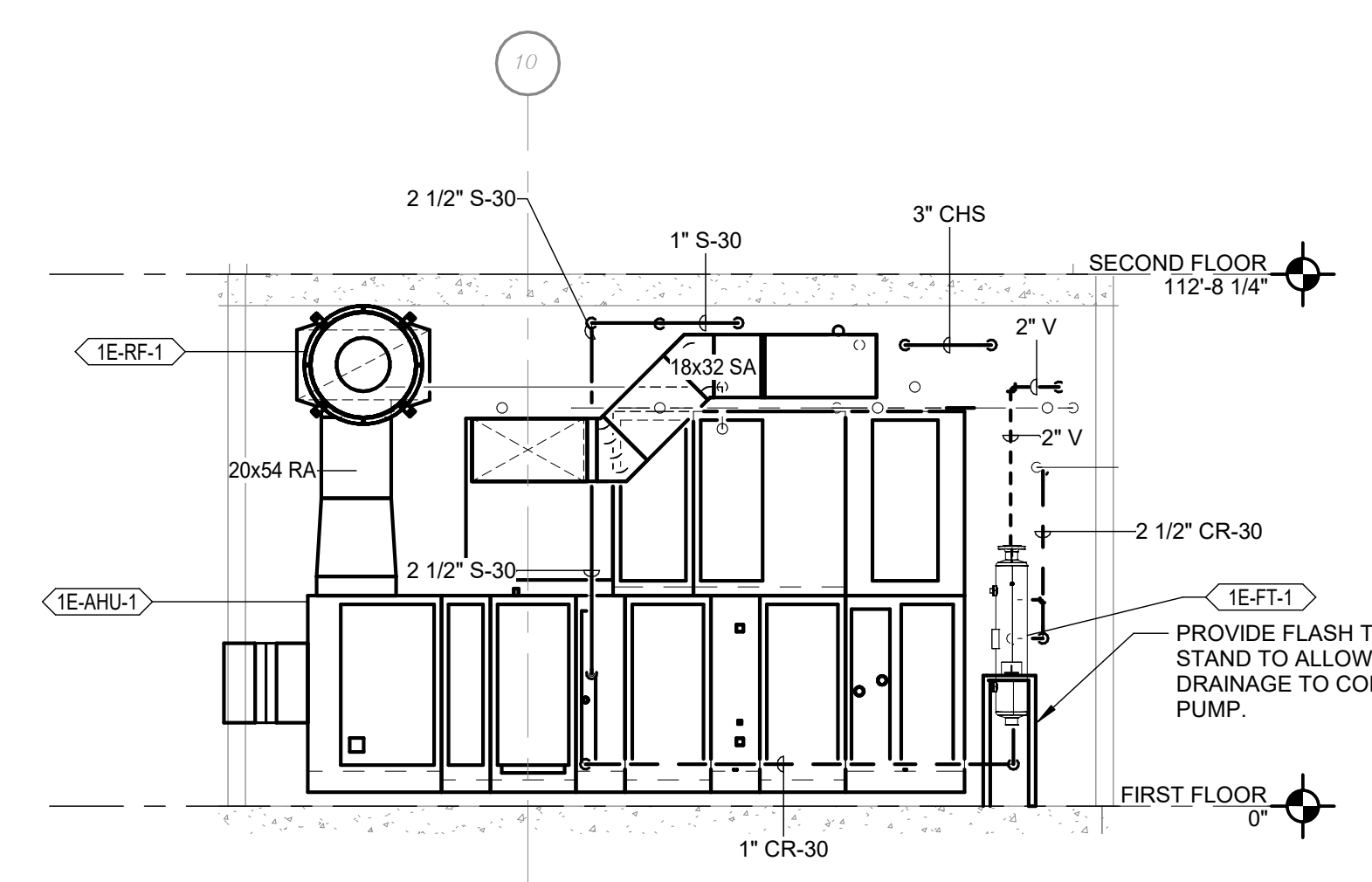




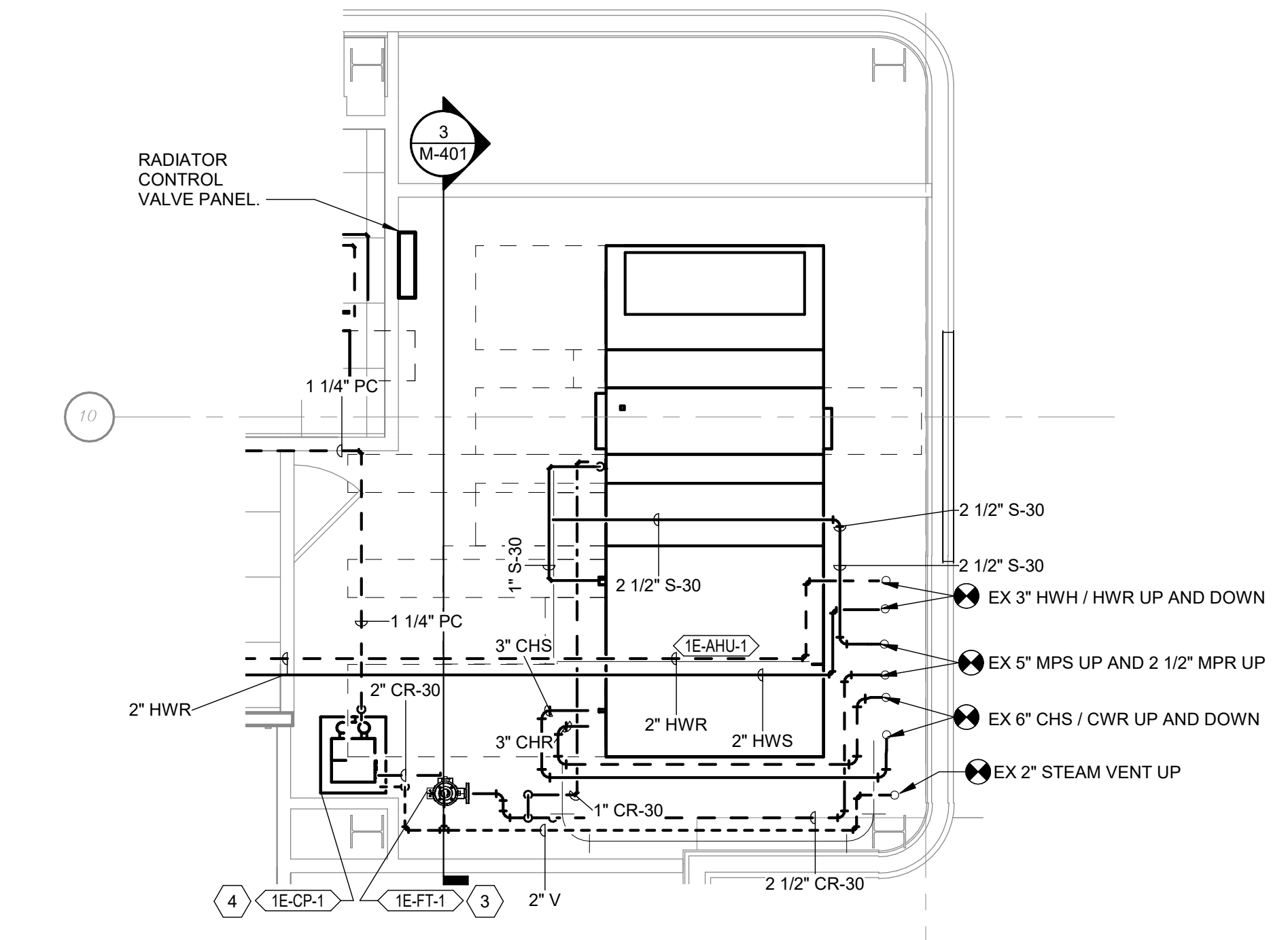


**KEY NOTES:**

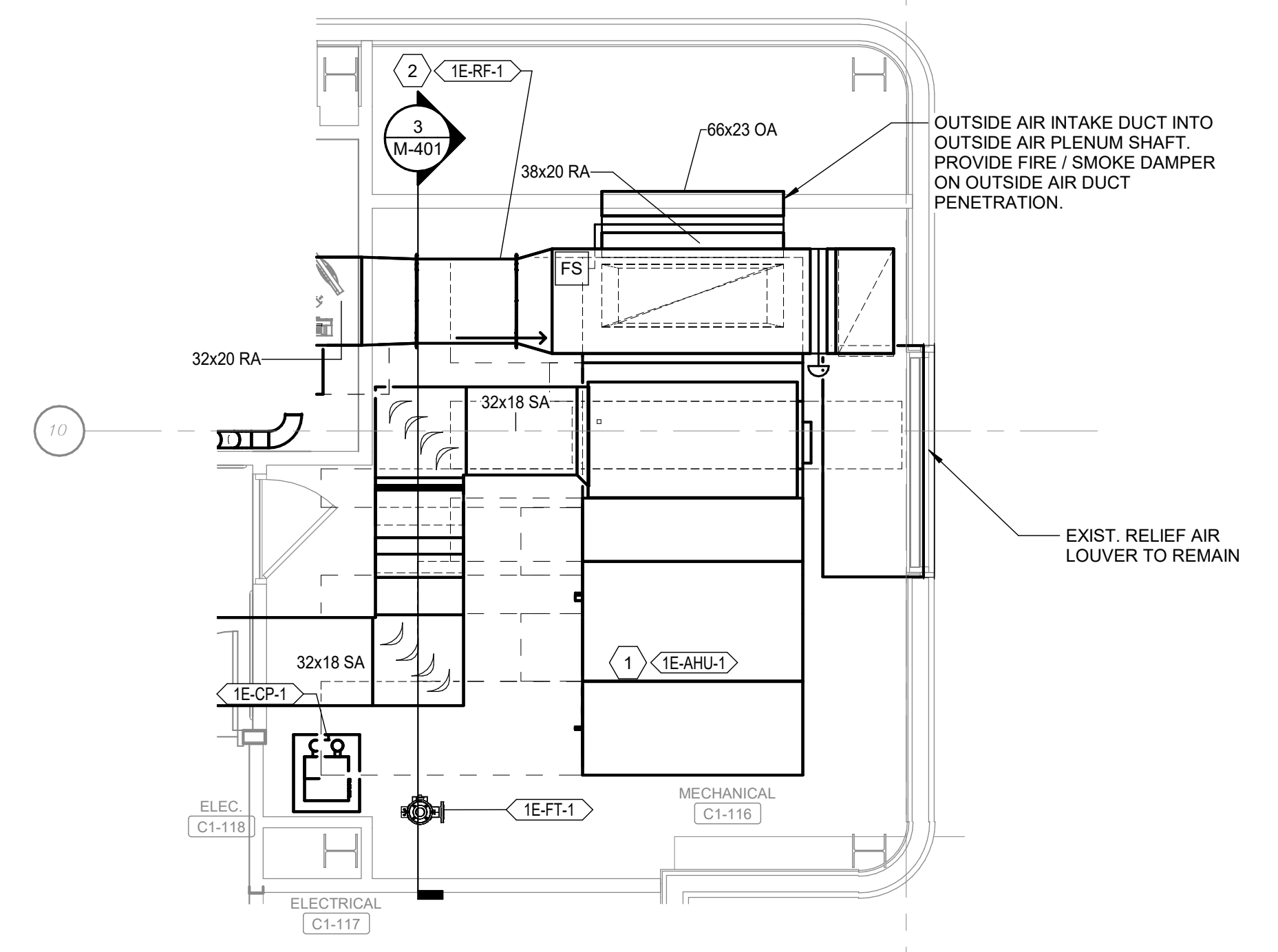
- 1 PROVIDE AHU ON EXISTING EQUIPMENT PAD.
- 2 PROVIDE INLINE RETURN FAN. ENSURE MAINTENANCE CLEARANCE PER MANUFACTURER RECOMMENDATIONS
- 3 PROVIDE FLASH TANK, INSULATION, AND STAND.
- 4 PROVIDE DUPLEX CONDENSATE PUMP, INSULATION, AND CONCRETE EQUIPMENT BASE.



**3 MECHANICAL SECTION**  
 Scale: 1/4" = 1'-0"

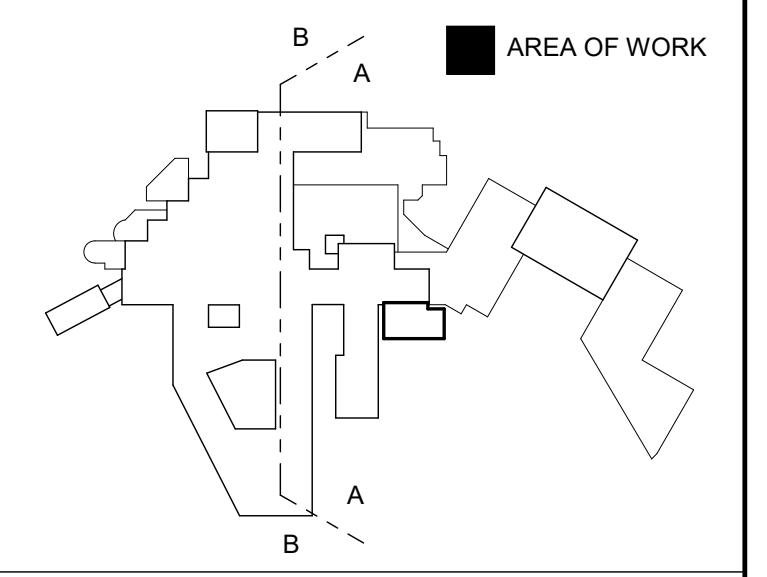


**1 MECHANICAL ROOM C1-16 MECHANICAL PIPING PLAN**  
 Scale: 1/4" = 1'-0"



**2 MECHANICAL ROOM C1-16 MECHANICAL DUCTWORK PLAN**  
 Scale: 1/4" = 1'-0"

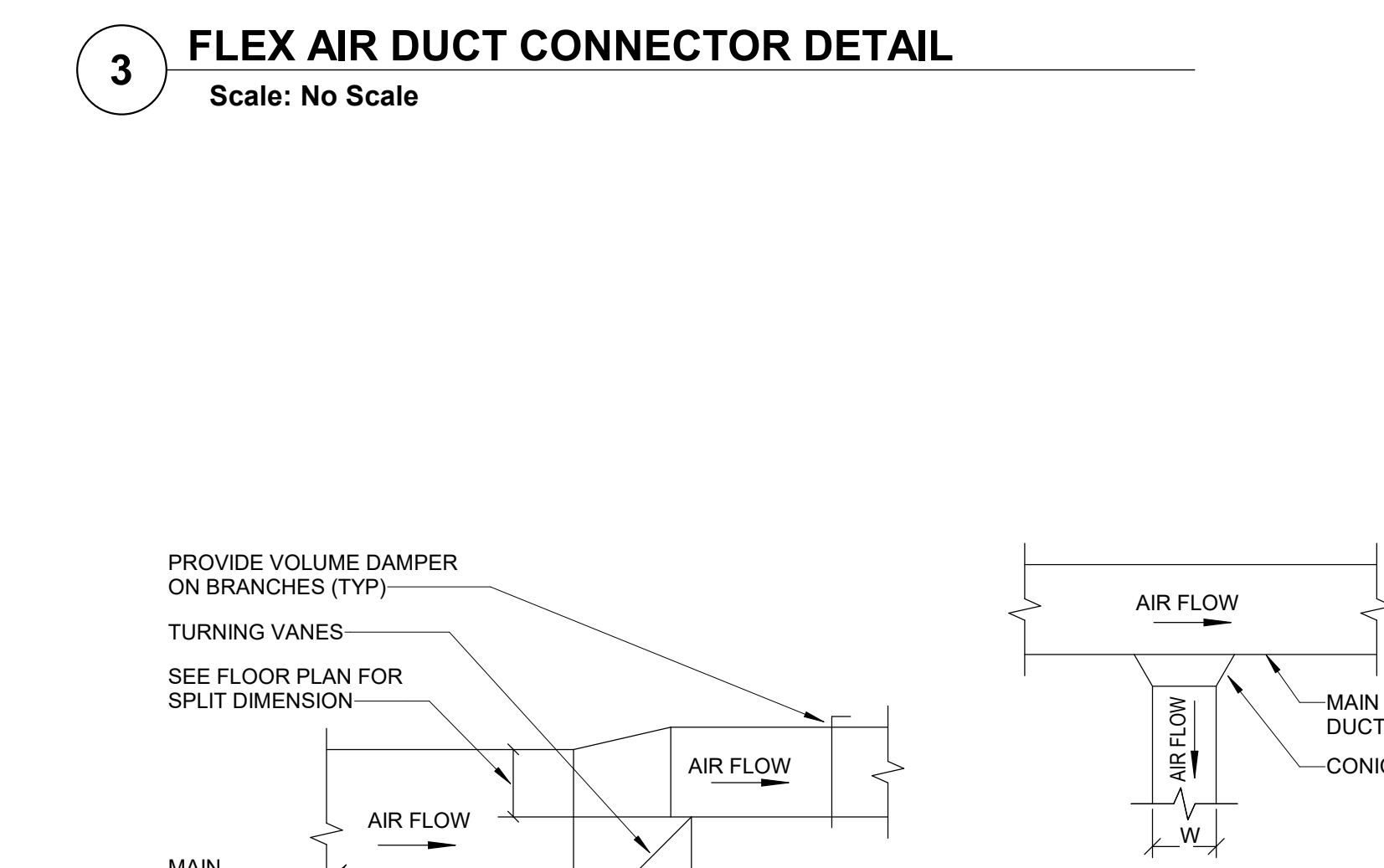
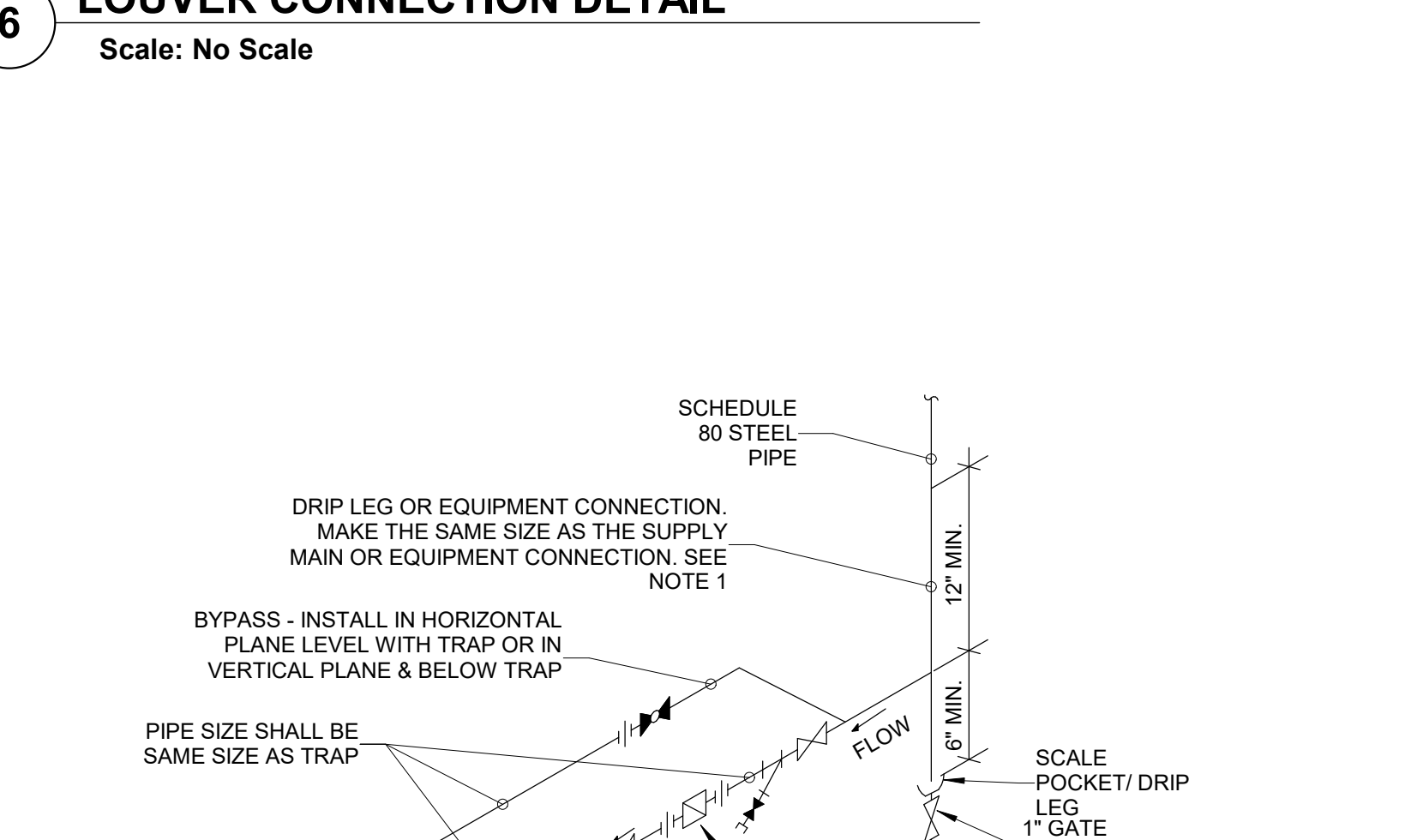
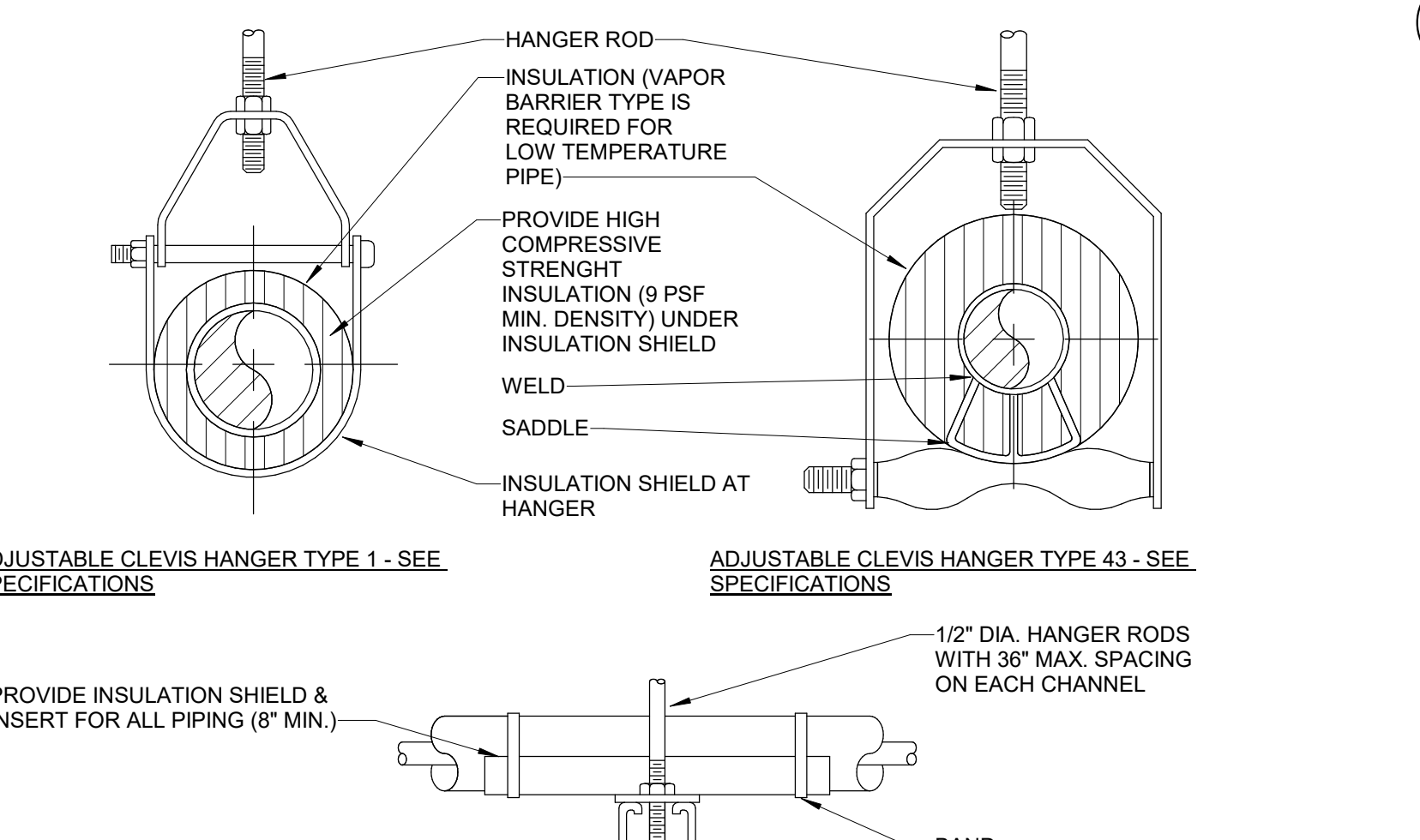
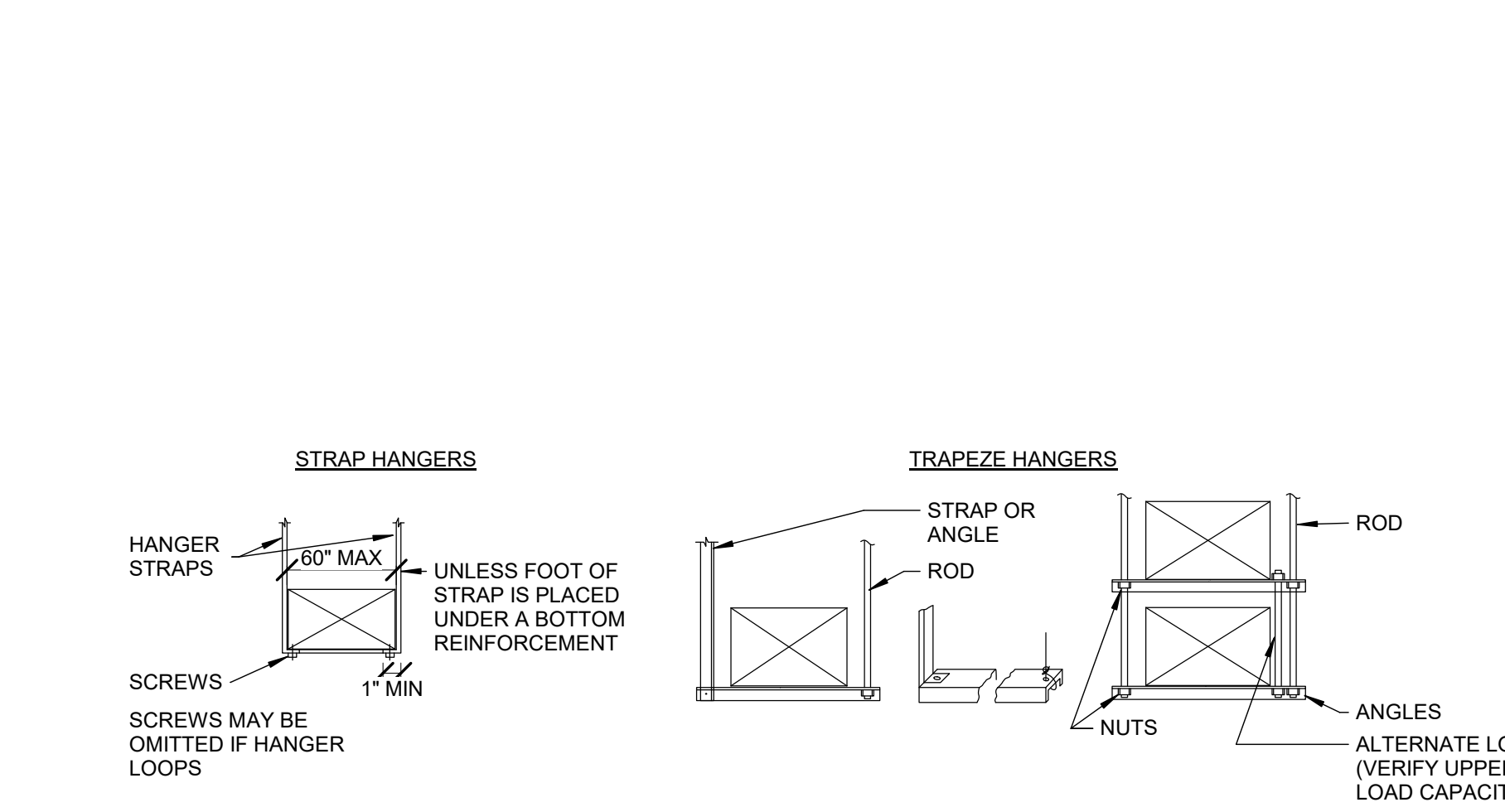
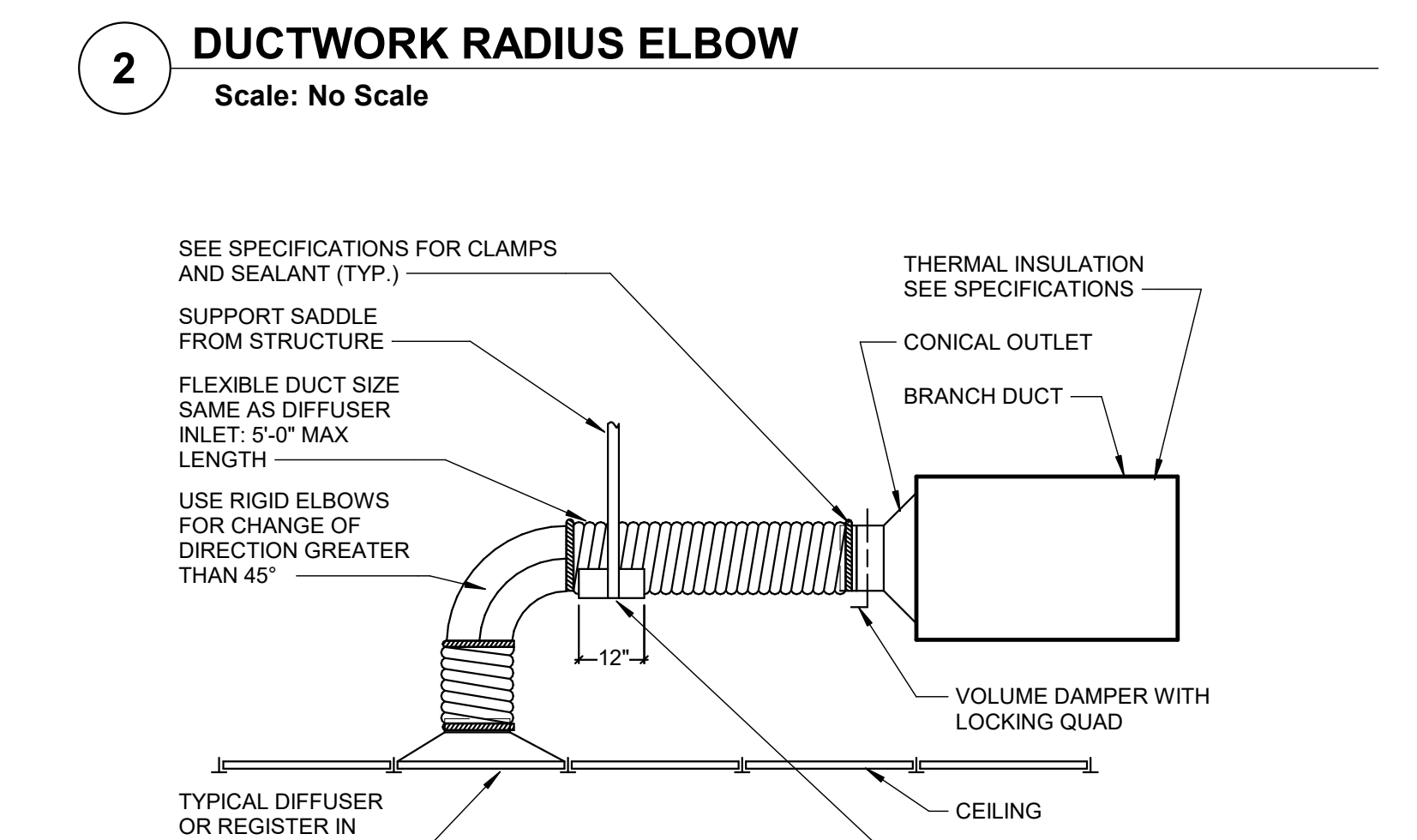
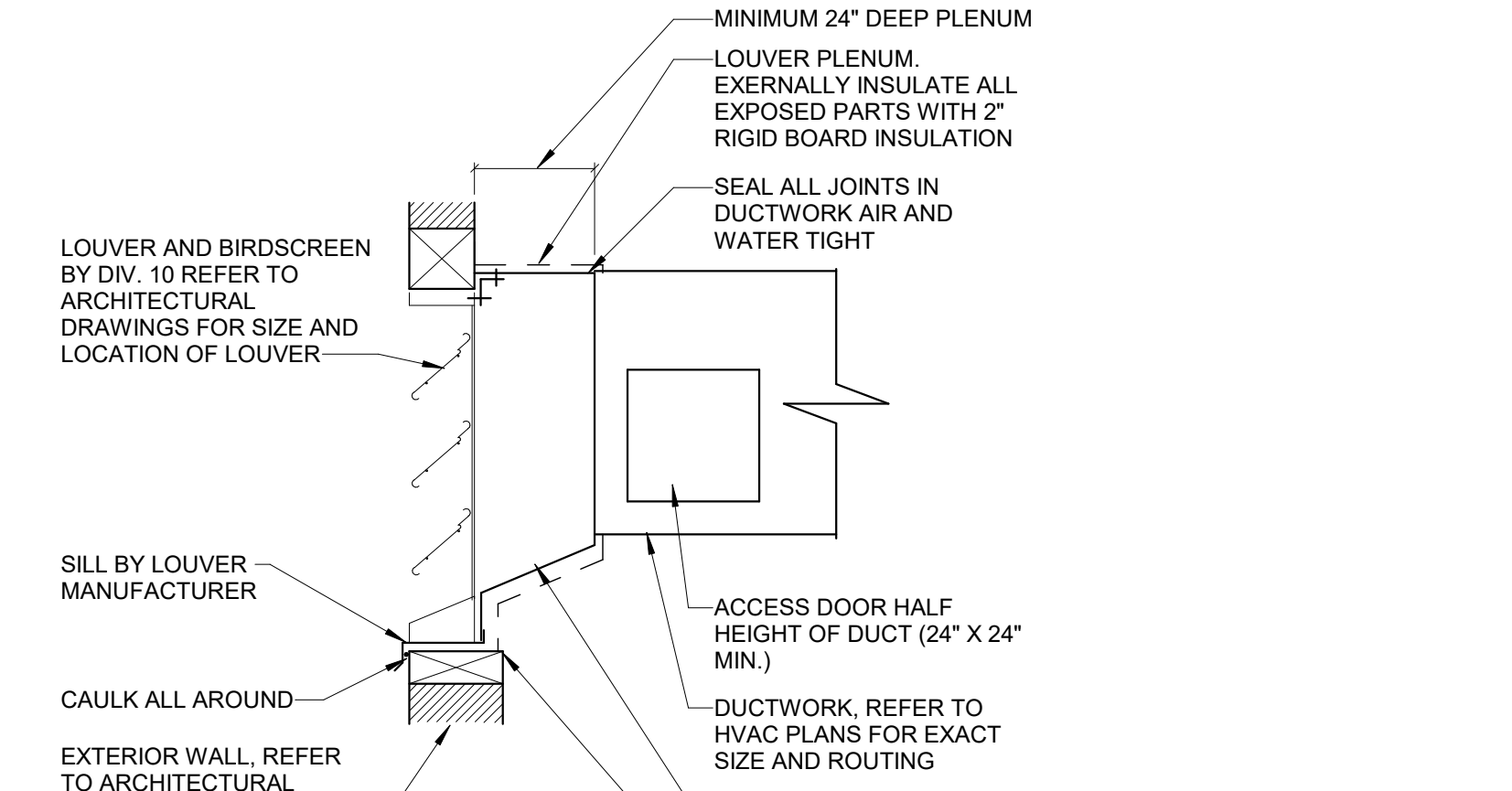
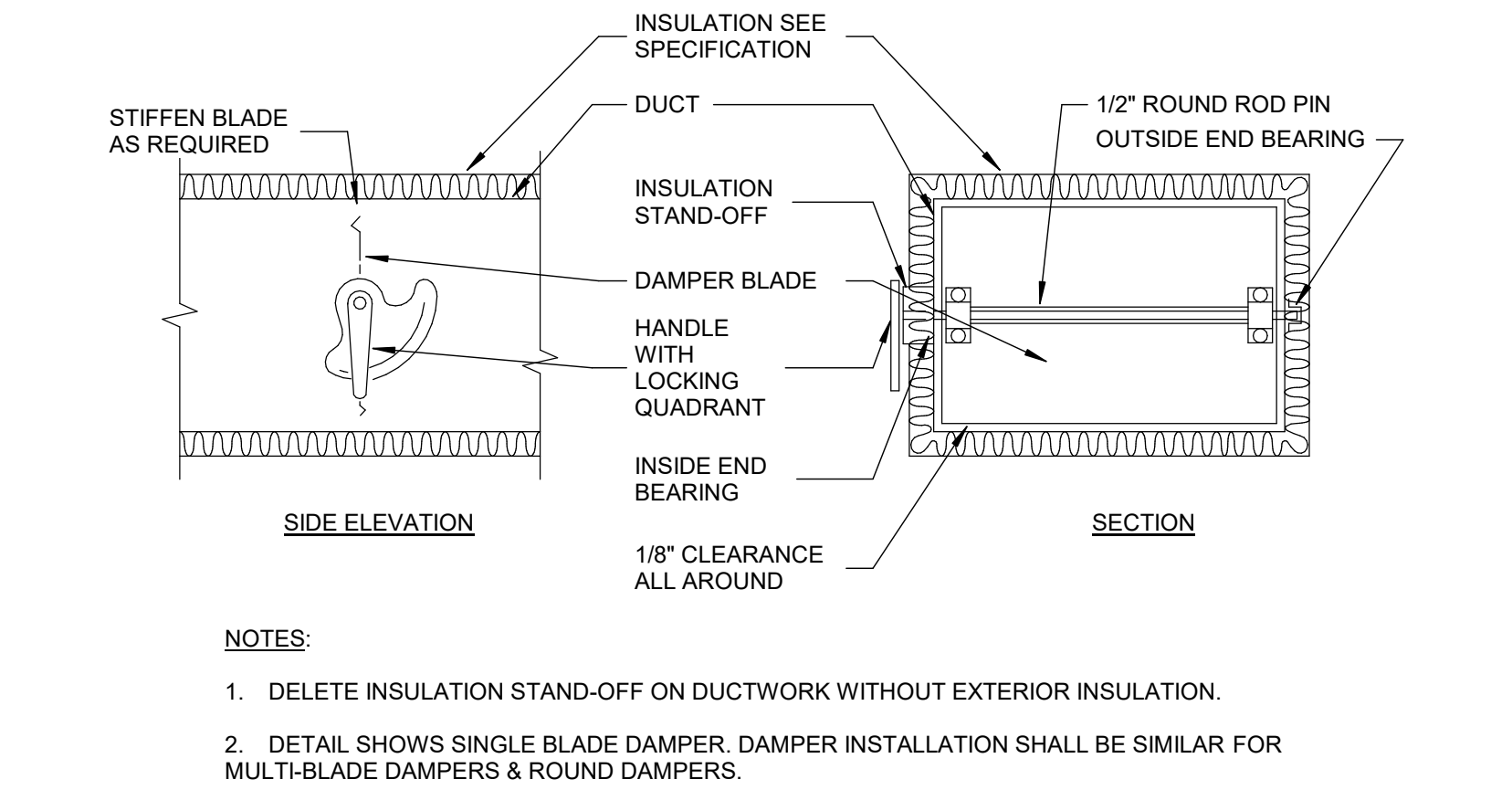
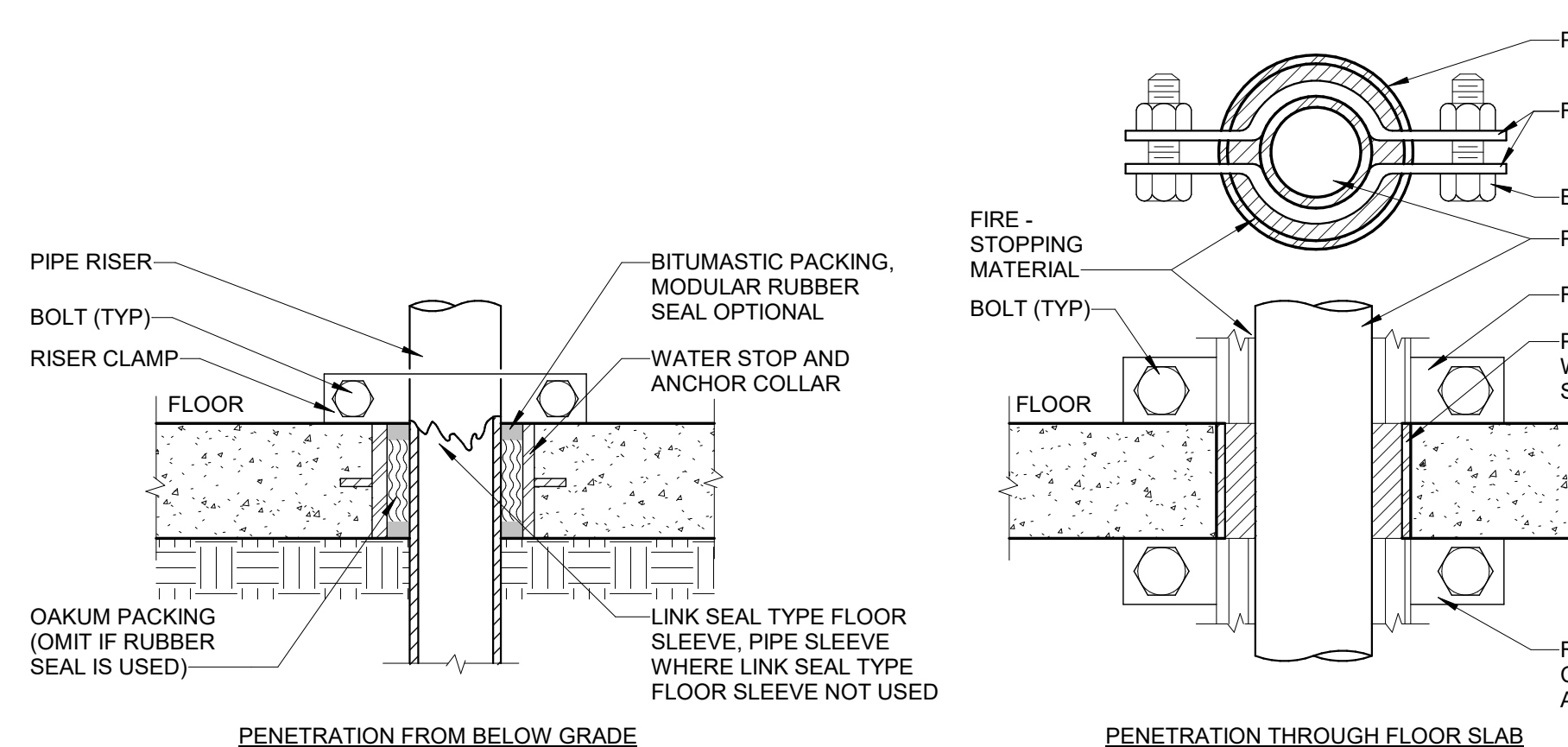
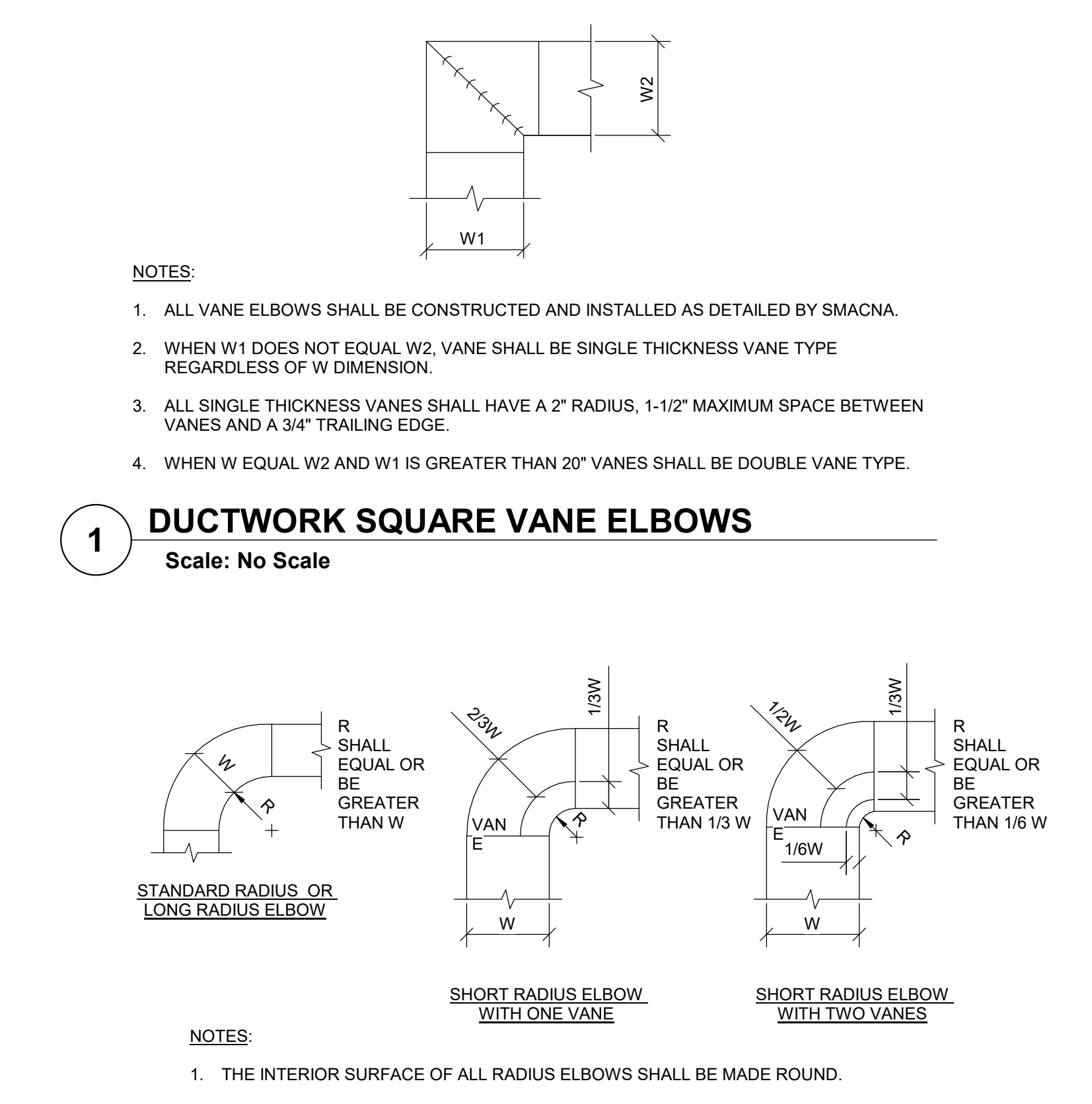
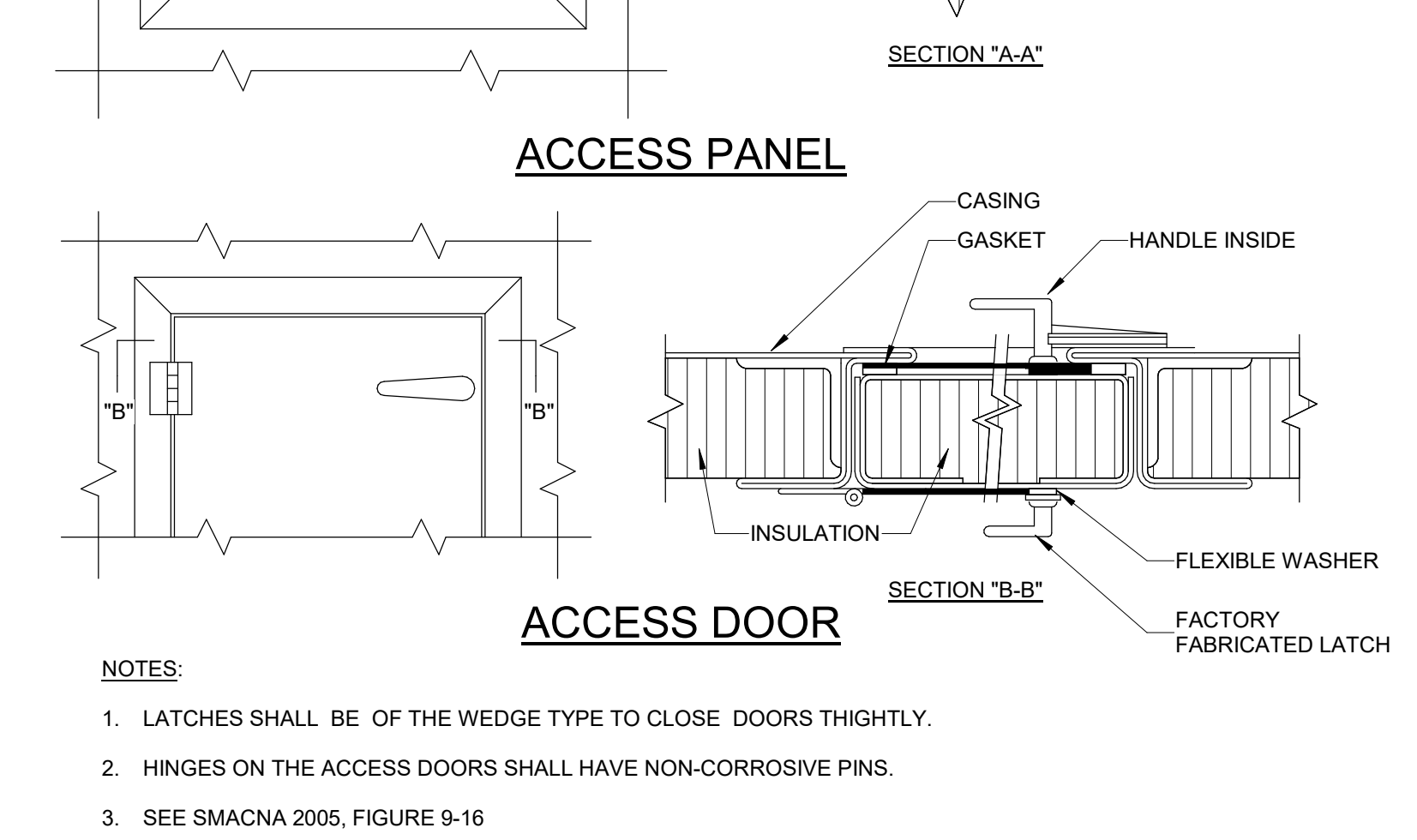
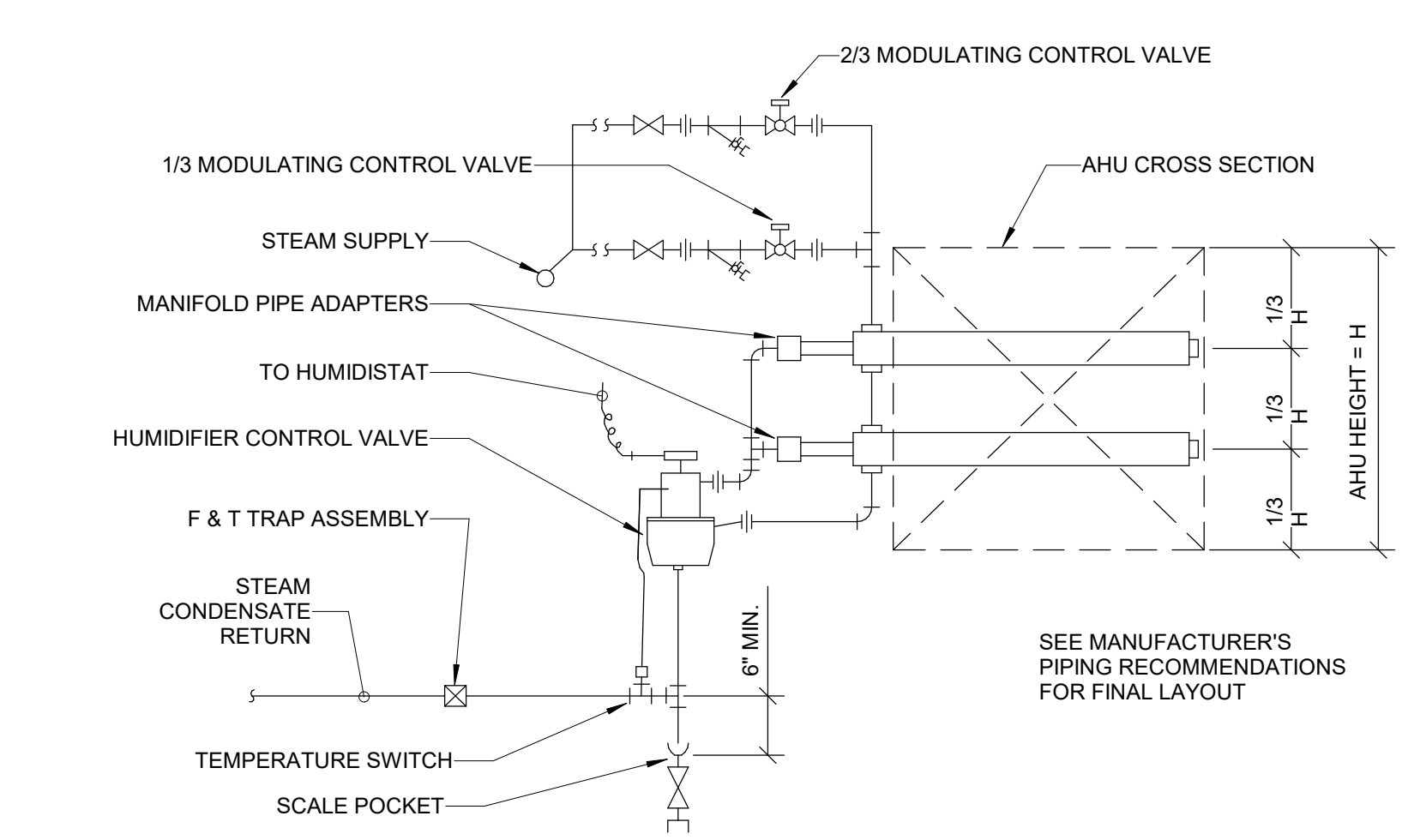
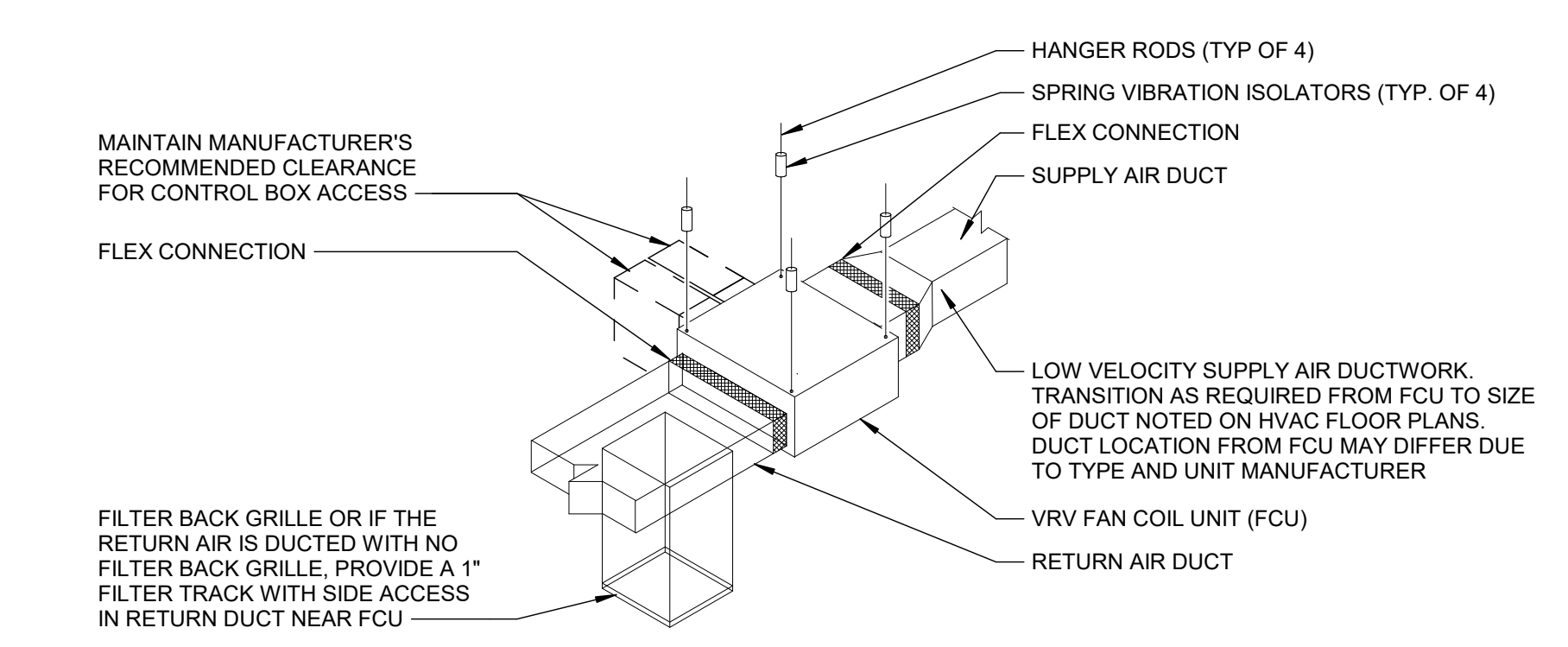
**KEY PLAN**  
 SCALE: NO SCALE



**FULLY SPRINKLERED  
 100% CONSTRUCTION DOCUMENTS**

<p><b>CONSULTANTS:</b></p>			<p><b>PROJECT MANAGER</b></p> <p>Headquarters:  <b>Apogee Consulting Group, P.A.</b>                  1151 Kildaire Farm Road, Suite 120                  Cary, North Carolina 27511</p> <p>www.acg-pa.com 919-858-7420</p>	<p>Office of                  Construction                  and Facilities                  Management</p> <p><b>VA</b> U.S. Department                  of Veterans Affairs</p>	<p>Drawing Title  <b>ENLARGED MECHANICAL PLANS</b></p> <p>Location  <b>WILKES-BARRE VA MEDICAL CENTER</b>                  1111 EAST END BLVD                  WILKES-BARRE, PA 18711</p>	<p>Project Title  <b>EXPAND MENTAL HEALTH CLINIC</b></p> <p>Approved</p> <p>Date                  FEBRUARY 21, 2024</p> <p>Checked                  SWR</p> <p>Drawn                  SWR</p>	<p>VA PROJECT NUMBER                  693-352</p> <p>Building Number                  # 1</p> <p>Drawing Number  <b>M-401</b></p> <p>Dwg 11 of 16</p>
			<p># Revisions:</p>	<p>Date</p>			





RECTANGULAR DUCT HANGERS MINIMUM SIZE

MAXIMUM HALF OF DUCT PERIMETER	PAIR AT 10 FT SPACING		PAIR AT 8 FT SPACING		PAIR AT 5 FT SPACING		PAIR AT 4 FT SPACING	
	STRAP	WIRE/ROD	STRAP	WIRE/ROD	STRAP	WIRE/ROD	STRAP	WIRE/ROD
P/2 = 30"	1" x 22 GA.	10 GA. (.135")	1" x 22 GA.	10 GA. (.135")	1" x 22 GA.	12 GA. (.106")	1" x 22 GA.	10 GA. (.135")
P/2 = 72"	1" x 18 GA.	3/8"	1" x 20 GA.	1/4"	1" x 22 GA.	1/4"	1" x 22 GA.	1/4"
P/2 = 96"	1" x 18 GA.	3/8"	1" x 18 GA.	3/8"	1" x 20 GA.	3/8"	1" x 22 GA.	1/4"
P/2 = 120"	1-1/2" x 16 GA.	1/2"	1" x 16 GA.	3/8"	1" x 18 GA.	3/8"	1" x 20 GA.	1/4"
P/2 = 168"	1-1/2" x 16 GA.	1/2"	1-1/2" x 16 GA.	1/2"	1" x 16 GA.	3/8"	1" x 18 GA.	3/8"
P/2 = 192"	NOT GIVEN	1/2"	1-1/2" x 16 GA.	1/2"	1" x 16 GA.	3/8"	1" x 16 GA.	3/8"

NOTE: TABULATED DATA FROM SMACNA ALLOWS FOR DUCT REINFORCING AND INSULATION, BUT NOT EXTERNAL LOAD

MAXIMUM PIPE/TUBING SUPPORT SPACING

NOM. SIZE (IN.)	THRU 3/4"	1	1 1/4"	1 1/2"	2	2 1/2"	3	4	5	6	8	10	12
PIPE (FT.)	7	7	7	9	10	11	12	14	16	17	19	22	23
TUBING (FT.)	5	7	8	8	9	10	12	13	14	16	-	-	-

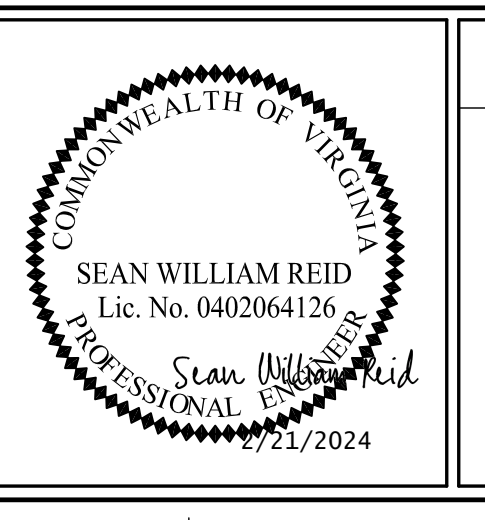
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE

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 100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

PROJECT MANAGER



AGC Project Number 20-083  
 Headquarters:  
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Office of Construction and Facilities Management  
 U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL DETAILS  
 Location: WILKES-BARRE VA MEDICAL CENTER  
 1111 EAST END BLVD  
 WILKES-BARRE, PA 18711

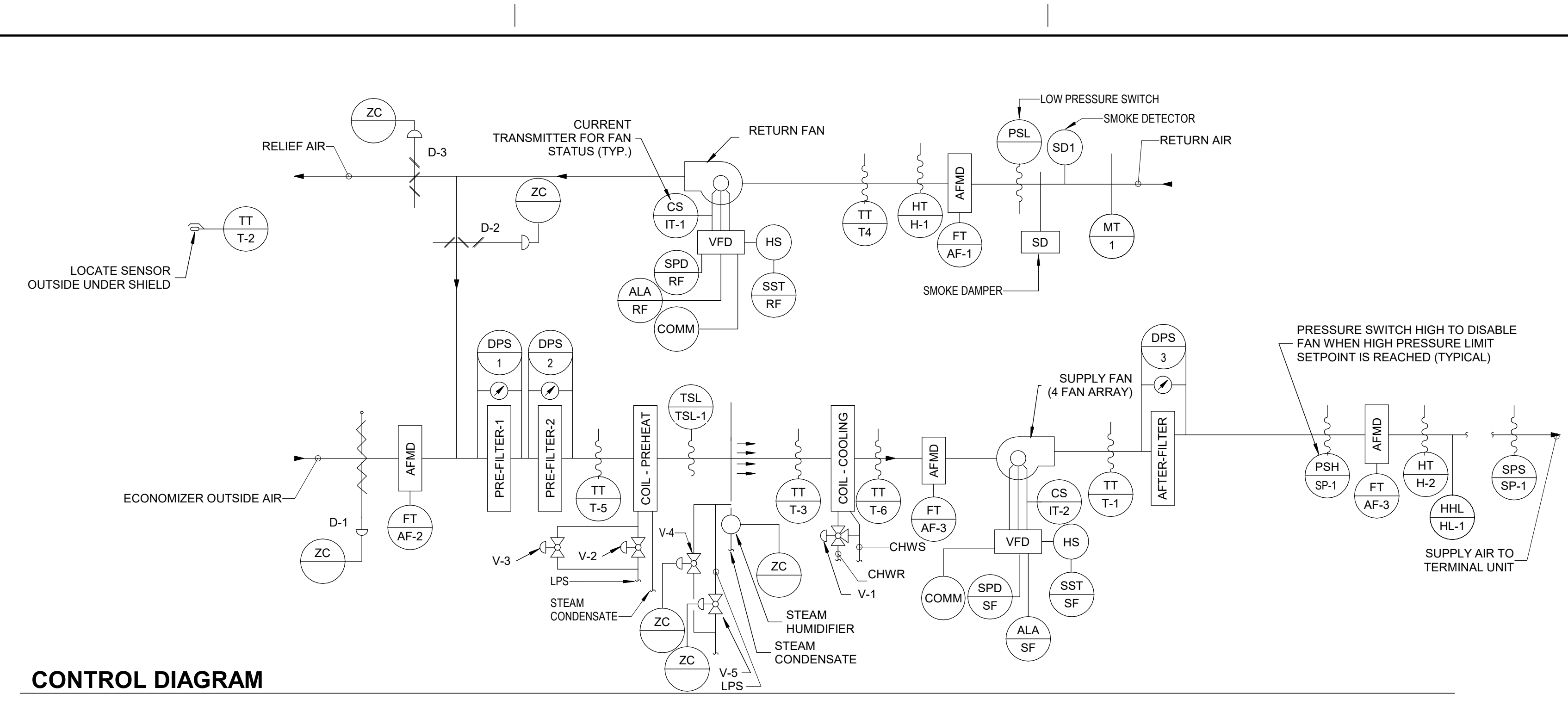
Project Title: EXPAND MENTAL HEALTH CLINIC  
 Approved  
 Date: FEBRUARY 21, 2024  
 Checked: SWR  
 Drawn: SWR

VA PROJECT NUMBER: 693-352  
 Building Number: # 1  
 Drawing Number: M-501  
 Dwg 12 of 16









**CONTROL DIAGRAM**

SYSTEM COMPONENT:	POINT ID	ABBREVIATION	POINT LEGEND	SYSTEM OUTPUTS		SYSTEM INPUTS		SYSTEM SOFTWARE/CONTROL		PAGE:
				BINARY	ANALOG	BINARY	ANALOG	ALARM PROCESSING	APPLICATION/FUNCTION	
RETURN AIR TEMPERATURE	Ai-1	T-4								
RETURN AIR HUMIDITY	Ai-2	H-1								
MIXED AIR TEMPERATURE	Ai-4	T-5								
PRE-HEAT TEMPERATURE	Ai-5	T-3								
COOLING COIL TEMPERATURE	Ai-6	T-6								
DISCHARGE AIR TEMPERATURE	Ai-7	T-1								
DISCHARGE STATIC PRESSURE	Ai-8	SP-1								
DISCHARGE AIR HUMIDITY	Ai-9	H-2								
OUTSIDE AIR TEMPERATURE	Ai-11	T-2								
GEN EA TEMPERATURE	Ai-12	T-7								
HEAT RECOVERY RETURN TEMP	Ai-13	T-8								
HEAT RECOVERY SUPPLY TEMP	Ai-14	T-9								
RETURN FAN STATUS	Bi-2	CS-IT 1								
SUPPLY FAN STATUS	Bi-3	CS-IT 2								
PRE-FILTER 1	Bi-1	DPS-1								
MIXED AIR LOW LIMIT	Bi-6	TSL-1								
STATIC PRESSURE HIGH LIMIT	Bi-7	SP-1								
HUMIDITY HIGH LIMIT	Bi-8	HL-1								
SUPPLY FAN VSMC ALARM	Bi-9	ALA-SF								
RETURN FAN VSMC ALARM	Bi-10	ALA-RF								
DUCT SMOKE DETECTOR	Bi-11	SD								
EF-1 STATUS	Bi-4	CS-IT 3								
EF-2 STATUS	Bi-5	CS-IT 4								
EXHAUST DAMPER POSITION	Bi-12	D-5								
EXHAUST DAMPER POSITION	Bi-13	D-6								
HRCP-1 STATUS	Bi-20	CS-IT 5								
RETURN FAN VSMC	AO-1	SPD-RF								FULL COMMUNICATION
SUPPLY FAN VSMC	AO-2	SPD-SF								FULL COMMUNICATION
MIN OUTSIDE AIR DAMPER	AO-3	D-4								
RETURN AIR DAMPER	AO-4	D-2								
RELIEF AIR DAMPER	AO-5	D-3								
HRVALVE POSITION	AO-6	V-6								
PREHEAT VALVE 1/3	AO-8	V-2								
COOLING VALVE	AO-9	V-1								
STEAM HUMIDIFIER 1/3 VALVE	AO-10	V-4								
RETURN FAN START/STOP	BO-1	SST-RF								
SUPPLY FAN START/STOP	BO-2	SST-SF								
EF-1 START/STOP	BO-3	SST EF 1								
EF-2 START/STOP	BO-4	SST EF 2								
EXHAUST DAMPER OPEN/CLOSE	BO-5	D-5								
EXHAUST DAMPER OPEN/CLOSE	BO-6	D-6								
HRCP-1 START/STOP	BO-7	SST HRP								
AIRFLOW MONITORING - RA	FT-1	AF-1 / PSL								
AIRFLOW MONITORING - OA	FT-2	AF-2								
AIRFLOW MONITORING - SA	FT-3	AF-3								
AIRFLOW MONITORING - SA	FT-4	AF-4								
STEAM HUMIDIFIER 2/3 VALVE	AO-11	V-5								
ECONOMIZER DAMPER	AO-6	D-1								
PREHEAT VALVE 2/3	AO-7	V-3								
PRE-FILTER 2	Bi-14	DPS-2								
AFTER FILTER	Bi-15	DPS-3								
SMOKE DETECTOR 1	Bi-16	SD-1								

**POINTS LIST**

**1. GENERAL FAN/TEMPERATURE CONTROL**

- 1.1 **COOLING-OCCUPIED/OVERRIDE:** AHU'S WILL BE INTERLOCKED WITH ASSOCIATED AREA EXHAUST FANS, SO EACH EXHAUST FAN WILL OPERATE WHENEVER ITS ASSOCIATED AHU IS ENERGIZED. AHU SUPPLY FAN SPEED SHALL BE DETERMINED BY DISCHARGE AIR PRESSURE AND COLLING OF VA BOX DAMPER POSITIONS. DISCHARGE AIR PRESSURE SHALL INCLUDE A "CRITICAL ZONE RESET STRATEGY" WHICH REDUCES DISCHARGE AIR PRESSURE UNTIL AT LEAST ONE ZONE VAV BOX DAMPER IS 90% OPEN. THE INITIAL AIR PRESSURE SETPOINT SHALL BE 5" WG (ADJUSTABLE). THE AHU RETURN AIR FAN SHALL BE INTERLOCKED WITH THE SUPPLY AIR FAN. THE RETURN AIR FAN SPEED OFFSET SHALL BE DETERMINED DURING THE INITIAL TAB WORK. AS SPACE PRESSURIZATION RISES ABOVE 0.1" WG, THE RELIEF AIR SHALL MODULATE OPEN TO MAINTAIN SPACE PRESSURIZATION AT 0.1" WG (ADJUSTABLE). ALL ASSOCIATED VAV SUPPLY AIR FANS SHALL BE ENERGIZED PRIOR TO ENERGIZING THE ASSOCIATED AHU SUPPLY AND RETURN AIR FANS.
- 1.2 **COOLING-UNOCCUPIED:** SHALL OPERATE AS IN OCCUPIED MODE. UNOCCUPIED MODE ONLY ADJUSTS THE SUPPLY AIR VOLUME TO THE OPERATING ROOMS.
- 1.3 **HEATING-OCCUPIED:** AHU SUPPLY AIR FAN SHALL BE ENERGIZED AND RUN CONTINUOUSLY. OA FLOW WILL BE MAINTAINED AS DESCRIBED IN COOLING-OCCUPIED MODE ABOVE. WHEN DISCHARGE AIR TEMPERATURE DROPS BELOW 52°F, DISCHARGE AIR TEMPERATURE CONTROLLER THRU DDC CONTROL SHALL MODULATE THE STEAM VALVE TO MAINTAIN 55°F LEAVING AIR TEMPERATURE. THE CHILLED WATER VALVE SHALL BE FULLY CLOSED TO THE COIL.
- 1.4 **HEATING-UNOCCUPIED:** UNIT SHALL BE DE-ENERGIZED UNLESS THE AVERAGE OF THE ZONE TEMPERATURES FALLS BELOW THE SETBACK TEMPERATURE SETPOINT. THE OA AND EA DAMPER SHALL BE CLOSED.
- 1.5 **TRANSITION FROM OCCUPIED TO UNOCCUPIED:** AUTOMATICALLY THRU DDC CONTROL AND PRESET TIME SCHEDULE. SYSTEM SHALL ALSO BE ABLE TO BE RETURNED TO OCCUPIED MODE FROM UNOCCUPIED MODE BY THE OPERATOR WORKSTATION. TRANSITION FROM COOLING TO HEATING SHALL OCCUR WHEN CHILLED WATER CONTROL VALVE IS CLOSED AND MIXED AIR TEMPERATURE FALLS BELOW 52°F.

**2. HUMIDIFICATION MODE:**

- 2.1 THE SUPPLY AIR HIGH LIMIT HUMIDITY SENSOR SETPOINT SHALL BE CAPABLE OF BEING ADJUSTED FROM EITHER THE CENTRAL OR LOCAL ECC CONTROL PANEL.
- 2.2 THE RETURN AIR HUMIDITY SENSOR LOCATED IN THE RETURN AIR DUCT SHALL MODULATE THE UNIT'S HUMIDIFIER STEAM CONTROL VALVE TO MAINTAIN THE SPACE HUMIDITY. THE HIGH LIMIT HUMIDITY SENSOR SHALL MODULATE THE UNIT'S HUMIDIFIER STEAM CONTROL VALVE TO MAINTAIN 30% ADJUSTABLE RELATIVE HUMIDITY IN THE SPACES.
- 2.3 THE OUTDOOR AIR TEMPERATURE SENSOR SHALL CLOSE OFF THE HUMIDIFIER STEAM SUPPLY VALVE WHEN THE OUTSIDE AIR TEMPERATURE IS ABOVE 60°F & OPEN THE HUMIDIFIER STEAM SUPPLY VALVE WHEN OUTSIDE AIR TEMPERATURE IS BELOW 60°F.
- 2.4 THE HUMIDIFIER STEAM CONDENSATE RETURN TEMPERATURE SWITCH SHALL FUNCTION TO CLOSE OFF THE HUMIDIFIER CONTROL VALVE UNTIL THE CONDENSATE TEMPERATURE APPROACHES STEAM TEMPERATURE. THE HUMIDIFIER CONTROL VALVE AND THE HUMIDIFIER STEAM SUPPLY VALVE WILL BE CLOSED TO THE HUMIDIFIER WHENEVER THE SUPPLY FAN IS OFF.

**3. ECONOMIZER:**

- 3.1 A COMPARATIVE ENTHALPHY ECONOMIZER STRATEGY SHALL BE UTILIZED. THE OUTSIDE AIR DAMPER SHALL MODULATE OPEN AND THE RETURN AIR DAMPER SHALL MODULATE CLOSED WHEN OA ENTHALPHY IS LESS THAN RETURN AIR ENTHALPHY IN COOLING MODE.

**4. SAFETY CONTROL/PROTECTION:**

- 4.1 SMOKE DETECTOR SHALL BE PROVIDED BY FIRE ALARM CONTRACTOR. THROUGH DDC CONTROL IT SHALL DE-ENERGIZE THE ASSOCIATED AHU. ALL ASSOCIATED VAV SUPPLY AND EXHAUST FANS (INCLUDING INTERLOCKS), SIGNAL FIRE ALARM PANEL AND CLOSE THE OUTSIDE AIR DAMPER UPON THE DETECTION OF THE PRODUCTS OF COMBUSTION.
- 4.2 **FREEZE PROTECTION:** IF STEAM HEATING COIL DISCHARGE AIR TEMPERATURE FALLS BELOW 40°F DURING HEATING MODE, THE FREEZESTAT SHALL CLOSE THE OUTSIDE AIR DAMPER, DE-ENERGIZE THE AHU SUPPLY AIR FAN AND FULLY OPEN THE PRIMARY STEAM AND CHILLED WATER VALVES TO COIL.
- 4.3 **PRESSURE PROTECTION:** A HIGH PRESSURE TRANSMITTER LOCATED AT THE SUPPLY FAN DISCHARGE SHALL DE-ENERGIZE THE SUPPLY AIR FAN IF ITS SETPOINT, 5" WG, IS REACHED.
- 4.4 **CONDENSATE HIGH LEVEL PROTECTION:** IF CONDENSATE HIGH LEVEL SWITCH IS ACTIVATED, UNIT SHALL BE DE-ACTIVATED AND AN ALARM INITIATED.

**5. WARM-UP / COOL-DOWN:**

- 5.1 **MORNING WARM-UP:** THE UNIT SHALL EMPLOY OPTIMUM START. PRIOR TO OCCUPIED STATUS, THE UNIT SHALL GO INTO MORNING WARM-UP. AHU CHW COIL CONTROL VALVE SHALL BE CLOSED TO OPEN THE COIL. THE SUPPLY FAN SHALL BE ENERGIZED AND THE STEAM VALVE SHALL BE FULLY OPEN TO THE COIL UNTIL OCCUPIED SPACE TEMPERATURE SETPOINT IS ACHIEVED. THE UNIT SHALL THEN CYCLE TO MAINTAIN SPACE OCCUPIED TEMPERATURE SETPOINT.
- 5.2 **MORNING COOL-DOWN:** THE UNIT SHALL EMPLOY OPTIMUM START. PRIOR TO OCCUPIED STATUS, THE UNIT SHALL GO INTO MORNING COOL-DOWN. THE OA AND EA DAMPERS SHALL FULLY CLOSE. THE SUPPLY FAN SHALL MODULATE TO MAINTAIN DUCT STATIC PRESSURE. THE CHW VALVE SHALL MODULATE TO MAINTAIN A 55°F LEAVING AIR TEMPERATURE AND THE PRIMARY STEAM VALVE SHALL BE FULLY CLOSED TO THE COIL. ASSOCIATED VAV BOX AIR VALVES SHALL INITIALLY BE FULLY OPEN AND THEN MODULATE TO MAINTAIN SPACE OCCUPIED TEMPERATURE SETPOINT. VAV BOX SUPPLY FANS SHALL BE ENERGIZED AND VAV BOX HW VALVES SHALL BE FULLY CLOSED TO THE COIL.

**6. ALARMS:**

- 6.1 ALARM FOR DIRTY FILTER WHEN PRESSURE DROP EXCEEDS 0.5" WG ABOVE INITIAL PRESSURE DROP. ALARM IF LEAVING AIR TEMPERATURE EXCEEDS 80°F IN COOLING MODE OR DROPS BELOW 50°F IN HEATING MODE. ALARM IF AHU SUPPLY OR EXHAUST AIR FAN FALLS TO START OR FALLS DURING OPERATION. ALARM IF UNIT DISCHARGE STATIC PRESSURE EXCEEDS 5" WG. ALARM IF CONDENSATE REACHES HIGH LEVEL. ALARM UPON SMOKE DETECTOR ACTIVATION.

**7. GRAPHICS AND MONITORING:**

- 7.1 BAS FRONT END SYSTEM SHALL INCLUDE GRAPHICS SHOWING ALL HVAC SYSTEMS, ALARMS AND OTHER POINTS SHOWN ON THE DRAWINGS AND INCLUDED IN THE SPECIFICATIONS AND IN ACCORDANCE WITH VA REQUIREMENTS. VFDs SHALL REPORT OPERATIONAL AND ALARM CONDITIONS TO THE BAS.

**8. DDC PANELS:**

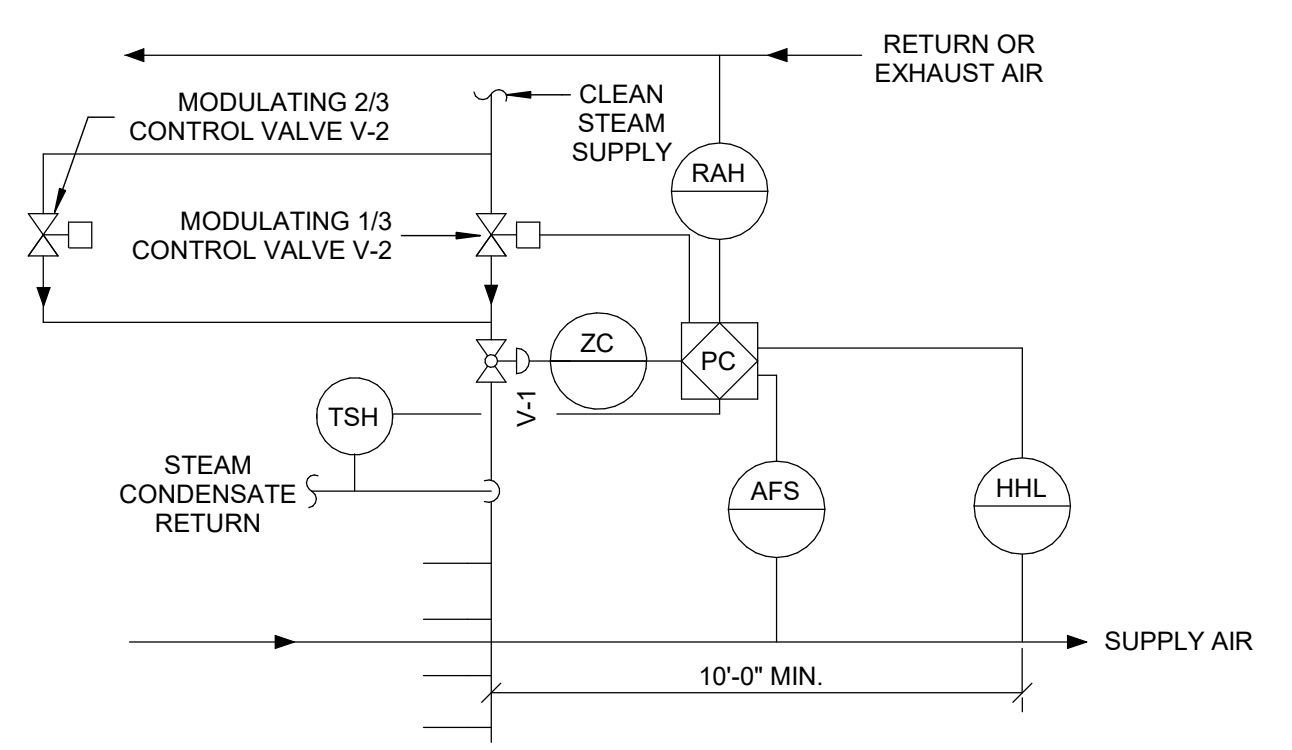
- 8.1 PROVIDE NETWORK AREA CONTROL PANELS IN ACCORDANCE WITH THE SPECS TO BE LOCATED IN THE EXISTING RESPECTIVE LOCATIONS TO SERVE AHUS, TERMINAL BOXES, AND OTHER EQUIPMENT.

**SEQUENCE OF OPERATION**

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 100% CONSTRUCTION DOCUMENTS

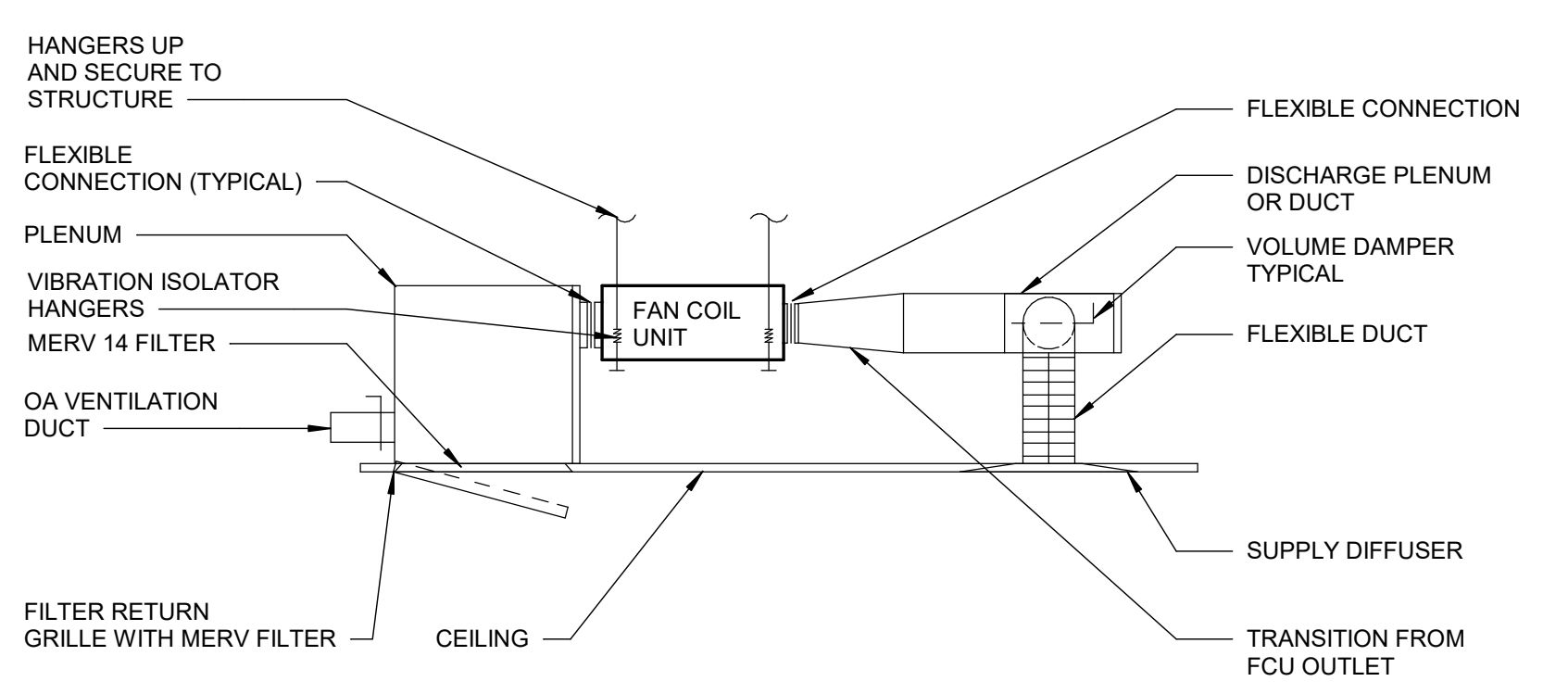
#	Revisions:	Date	CONSULTANTS:		<b>PROJECT MANAGER</b> ACG Project Number 20-083 Headquarters: <b>Apogee Consulting Group, P.A.</b> 1151 Kildaire Farm Road, Suite 120 Cary, North Carolina 27511 Engineers   Architects www.acg-pa.com 919-858-7420	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title <b>MECHANICAL CONTROLS</b> Location <b>WILKES-BARRE VA MEDICAL CENTER</b> 1111 EAST END BLVD WILKES-BARRE, PA 18711	Project Title <b>EXPAND MENTAL HEALTH CLINIC</b> Approved Date FEBRUARY 21, 2024	VA PROJECT NUMBER 693-352 Building Number # 1 Drawing Number <b>M-503</b> Dwg 14 of 16





**STEAM HUMIDIFIERS:**  
 RETURN (OR EXHAUST) AIR HUMIDITY SHALL BE MONITORED. ON A CALL FOR HUMIDIFICATION, HUMIDIFIER VALVE V-1 SHALL MODULATE TO MAINTAIN THE RETURN (OR EXHAUST) AIR HUMIDITY SET POINT TO 30% (ADJUSTABLE). PRIOR TO ACTIVATION OF V-1, THE ON/OFF CONTROL VALVE V-2 SHALL BE ENABLED THROUGH ECC AND JACKET TEMPERATURE SENSED BY TSH SHALL BE WARM ENOUGH TO PREVENT CONDENSATION. THE HIGH LIMIT HUMIDITY SENSOR, LOCATED IN THE SUPPLY AIR DUCT 10 FEET AWAY FROM THE HUMIDIFIER SHALL DISABLE THE HUMIDIFIER AND GIVE AN ALARM SIGNAL TO THE ECC. IF THE SUPPLY AIR HUMIDITY EXCEEDS 90% RH (ADJUSTABLE), THE AIRFLOW SWITCH SHALL PROVE AIRFLOW BEFORE HUMIDITY CONTROLS ARE ACTIVATED.

**7 STEAM HUMIDIFIER CONTROLS**  
 Scale: No Scale



**4 FAN COIL UNIT SECTION DETAIL**  
 Scale: No Scale

POINT NAME:	HARDWARE POINTS					SOFTWARE POINTS				SHOW ON GRAPHIC	NOTES	
	AI	AO	BI	BO	AV	BV	SCHED	TREND	ALARM			
ROOM TEMPERATURE	X						X				X	
ROOM TEMPERATURE SETPOINT	X										X	
DISCHARGE AIR TEMPERATURE	X						X				X	
FAN STATUS			X				X	X	X		X	
FAN ON/OFF						X	X	X	X		X	
COOLING COIL CONTROL VALVE		X									X	
HIGH DISCHARGE AIR TEMPERATURE	X								X		X	
LOW DISCHARGE AIR TEMPERATURE	X								X		X	
TOTAL HARDWARE (8)	5	1	1	1			1	5	3		11	
TOTAL SOFTWARE (9)												

**5 TWO PIPE FAN COIL UNIT POINTS LIST**  
 Scale: No Scale

**TWO PIPE FAN COIL UNIT**

**RUN CONDITIONS - CONTINUOUS:**  
 THE UNIT SHALL RUN CONTINUOUSLY AND SHALL MAINTAIN:  
 • A 75°F (ADJ.) COOLING SETPOINT. ORS WILL BE SET AT 86°F WITH OCCUPANT OVERRIDE.  
 • A 70°F (ADJ.) HEATING SETPOINT. ORS WILL BE SET AT 75°F WITH OCCUPANT OVERRIDE.

**ALARMS SHALL BE PROVIDED AS FOLLOWS:**  
 • HIGH ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).  
 • LOW ZONE TEMP: IF THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).

**ZONE SETPOINT ADJUST:**  
 THE OCCUPANT SHALL BE ABLE TO ADJUST THE ZONE TEMPERATURE HEATING AND COOLING SETPOINTS AT THE ZONE SENSOR.

**OCCUPIED:**  
 • WHEN ZONE TEMPERATURE IS GREATER THAN ITS COOLING SETPOINT, THE CHILLED WATER VALVE SHALL MODULATE BETWEEN THE MINIMUM CHILLED WATER FLOW (ADJ.) AND THE MAXIMUM CHILLED WATER FLOW (ADJ.) UNTIL THE ZONE IS SATISFIED.  
 • WHEN THE ZONE TEMPERATURE IS BETWEEN THE COOLING SETPOINT AND THE HEATING SETPOINT, THE FAN SHALL MAINTAIN THE MINIMUM REQUIRED ZONE AIRFLOW (ADJ.).  
 • WHEN ZONE TEMPERATURE IS LESS THAN ITS HEATING SETPOINT, THE FAN SHALL MODULATE BETWEEN THE MINIMUM OCCUPIED AIRFLOW (ADJ.) AND THE MAXIMUM HEATING AIRFLOW (ADJ.) UNTIL THE ZONE IS SATISFIED.

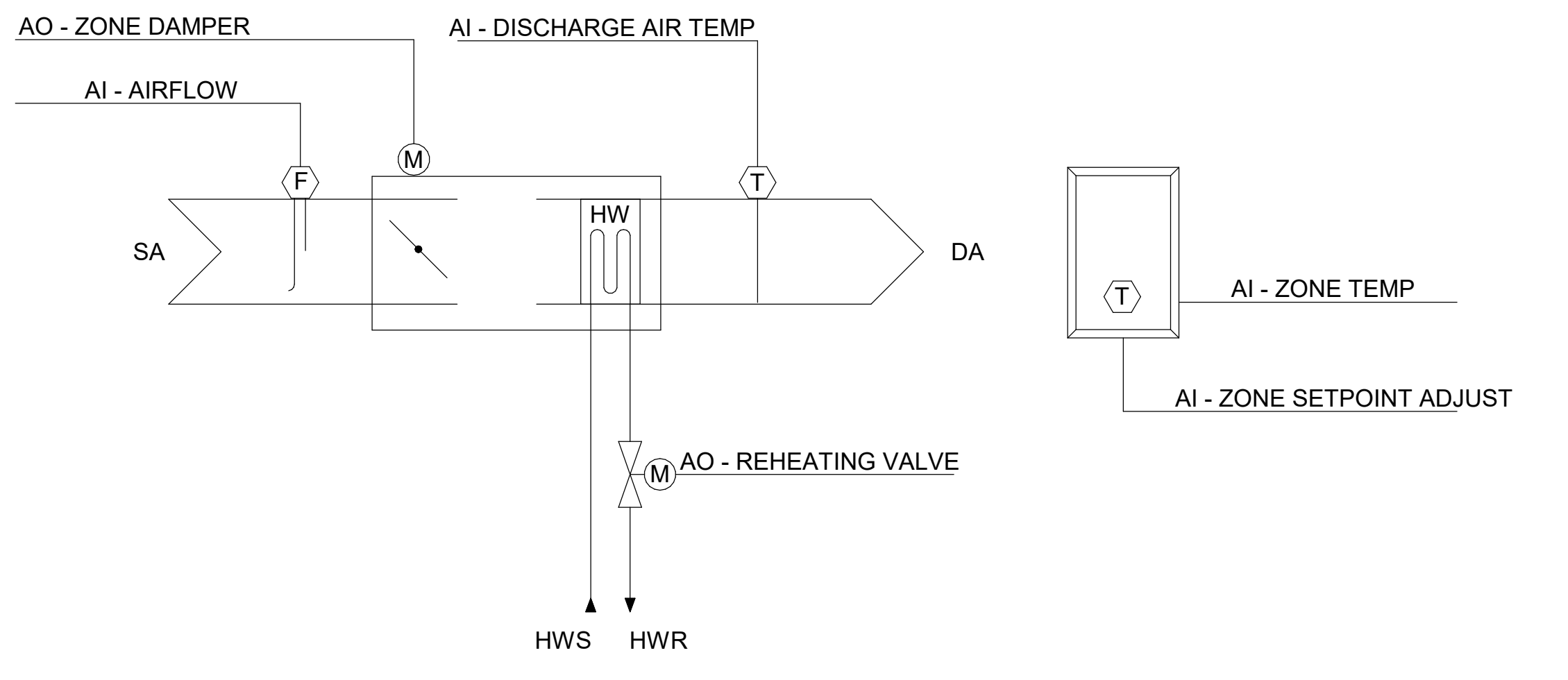
**UNOCCUPIED:**  
 • WHEN THE ZONE IS UNOCCUPIED THE FAN SHALL CONTROL TO ITS MINIMUM UNOCCUPIED AIRFLOW (ADJ.).

**CHILLED WATER COIL VALVE:**  
 THE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND MODULATE THE CHILLED WATER COIL VALVE CLOSED ON DROPPING ZONE TEMPERATURE TO MAINTAIN ITS COOLING SETPOINT.

**DISCHARGE AIR TEMPERATURE:**  
 THE CONTROLLER SHALL MONITOR THE DISCHARGE AIR TEMPERATURE.

**ALARMS SHALL BE PROVIDED AS FOLLOWS:**  
 • HIGH DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS GREATER THAN 100°F (ADJ.).  
 • LOW DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS LESS THAN 50°F (ADJ.).

**6 TWO PIPE FAN COIL UNIT**  
 Scale: No Scale



**1 VAV TERMINAL SCHEMATIC**  
 Scale: No Scale

POINT NAME:	HARDWARE POINTS					SOFTWARE POINTS				SHOW ON GRAPHIC	
	AI	AO	BI	BO	AV	BV	LOOP	SCHED	TREND		ALARM
ZONE TEMPERATURE	X								X		X
ZONE TEMPERATURE SETPOINT	X										X
AIRFLOW	X								X		X
DISCHARGE AIR TEMPERATURE	X								X		X
ZONE DAMPER		X									X
REHEATING VALVE		X							X		X
MAXIMUM OCCUPIED AIRFLOW SETPOINT						X			X		X
HEATING MODE							X		X		X
HEATING SETPOINT									X		X
COOLING SETPOINT									X		X
HIGH ZONE TEMPERATURE										X	
LOW ZONE TEMPERATURE											X
HIGH DISCHARGE TEMPERATURE											X
LOW DISCHARGE TEMPERATURE											X
MINIMUM OCCUPIED AIR FLOW SETPOINT						X			X		X
MINIMUM UNOCCUPIED AIRFLOW SETPOINT							X		X		X
TOTAL HARDWARE (6)	4	2				3	1		10	4	11
TOTAL SOFTWARE (18)											

**2 VAV TERMINAL UNIT CONTROLS**  
 Scale: No Scale

**VAV TERMINAL UNIT**

**VARIABLE AIR VOLUME - TERMINAL UNIT**

**RUN CONDITIONS - CONTINUOUS:**  
 THE UNIT SHALL RUN CONTINUOUSLY AND SHALL MAINTAIN:  
 • A 75°F (ADJ.) COOLING SETPOINT. ORS WILL BE SET AT 86°F WITH OCCUPANT OVERRIDE.  
 • A 70°F (ADJ.) HEATING SETPOINT. ORS WILL BE SET AT 75°F WITH OCCUPANT OVERRIDE.

**ALARMS SHALL BE PROVIDED AS FOLLOWS:**  
 • HIGH ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).  
 • LOW ZONE TEMP: IF THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).

**ZONE SETPOINT ADJUST:**  
 THE OCCUPANT SHALL BE ABLE TO ADJUST THE ZONE TEMPERATURE HEATING AND COOLING SETPOINTS AT THE ZONE SENSOR.

**PRESSURE INDEPENDENT VARIABLE VOLUME TERMINAL UNIT - FLOW CONTROL:**  
 THE UNIT SHALL MAINTAIN ZONE SETPOINTS BY CONTROLLING THE AIRFLOW THROUGH ONE OF THE FOLLOWING:

**OCCUPIED:**  
 • WHEN ZONE TEMPERATURE IS GREATER THAN ITS COOLING SETPOINT, THE ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM OCCUPIED AIRFLOW (ADJ.) AND THE MAXIMUM COOLING AIRFLOW (ADJ.) UNTIL THE ZONE IS SATISFIED.  
 • WHEN THE ZONE TEMPERATURE IS BETWEEN THE COOLING SETPOINT AND THE HEATING SETPOINT, THE ZONE DAMPER SHALL MAINTAIN THE MINIMUM REQUIRED ZONE AIRFLOW (ADJ.).  
 • WHEN ZONE TEMPERATURE IS LESS THAN ITS HEATING SETPOINT, THE CONTROLLER SHALL MODULATE THE HEATING VALVE OPEN TO MAINTAIN THE ZONE TEMPERATURE AT ITS HEATING SETPOINT. ADDITIONALLY, IF WARM AIR IS AVAILABLE FROM THE AHU, THE ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM OCCUPIED AIRFLOW (ADJ.) AND THE MAXIMUM HEATING AIRFLOW (ADJ.) UNTIL THE ZONE IS SATISFIED.

**UNOCCUPIED:**  
 • WHEN THE ZONE IS UNOCCUPIED THE ZONE DAMPER SHALL CONTROL TO ITS MINIMUM UNOCCUPIED AIRFLOW (ADJ.).  
 • WHEN THE ZONE TEMPERATURE IS GREATER THAN ITS COOLING SETPOINT, THE ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM UNOCCUPIED AIRFLOW (ADJ.) AND THE MAXIMUM COOLING AIRFLOW (ADJ.) UNTIL THE ZONE IS SATISFIED.  
 • WHEN ZONE TEMPERATURE IS LESS THAN ITS UNOCCUPIED HEATING SETPOINT, THE CONTROLLER SHALL MODULATE THE HEATING VALVE OPEN TO MAINTAIN THE ZONE TEMPERATURE AT THE SETPOINT. ADDITIONALLY, IF WARM AIR IS AVAILABLE FROM THE AHU, THE ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM UNOCCUPIED AIRFLOW (ADJ.) AND THE AUXILIARY HEATING AIRFLOW (ADJ.) UNTIL THE ZONE IS SATISFIED.

**REHEATING COIL VALVE:**  
 THE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND MODULATE THE REHEATING COIL VALVE OPEN ON DROPPING ZONE TEMPERATURE TO MAINTAIN ITS HEATING SETPOINT.

**REHEATING - HIGH DISCHARGE AIR TEMPERATURE LIMIT:**  
 THE CONTROLLER SHALL MEASURE THE DISCHARGE AIR TEMPERATURE AND LIMIT HOT WATER VALVE POSITION IF THE DISCHARGE AIR TEMPERATURE IS MORE THAN 15°F (ADJ.) ABOVE THE ZONE TEMPERATURE.

**DISCHARGE AIR TEMPERATURE:**  
 THE CONTROLLER SHALL MONITOR THE DISCHARGE AIR TEMPERATURE.

**ALARMS SHALL BE PROVIDED AS FOLLOWS:**  
 • HIGH DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS GREATER THAN 100°F (ADJ.).  
 • LOW DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS LESS THAN 50°F (ADJ.).

**3 VAV TERMINAL SEQUENCE OF OPERATION**  
 Scale: No Scale

FULLY SPRINKLERED  
 100% CONSTRUCTION DOCUMENTS

CONSULTANTS:				<b>PROJECT MANAGER</b> ACG Project Number 20-083  Headquarters: <b>Apogee Consulting Group, P.A.</b> 1151 Kildaire Farm Road, Suite 120 Cary, North Carolina 27511 Engineers   Architects www.acg-pa.com 919-858-7420		Office of Construction and Facilities Management U.S. Department of Veterans Affairs		Drawing Title <b>MECHANICAL CONTROLS</b> Location <b>WILKES-BARRE VA MEDICAL CENTER</b> 1111 EAST END BLVD WILKES-BARRE, PA 18711		Project Title <b>EXPAND MENTAL HEALTH CLINIC</b> Approved Date FEBRUARY 21, 2024 Checked xxx Drawn SWR		VA PROJECT NUMBER 693-352 Building Number # 1 Drawing Number <b>M-504</b> Dwg 15 of 16	
#	Revisions:	Date											







### ELECTRICAL ABBREVIATIONS LIST

1P	1 POLE (2P, 3P, 4P, ETC.)	CONST	CONSTRUCTION	GAL	GALLON	MTR	MOTOR, MOTORIZED	SPKR	SPEAKER
1PH	1 PHASE	CONT	CONTINUATION OR CONTINUOUS	GALV	GALVANIZED	MS	MANUAL TRANSFER SWITCH	SP	SPARE
2/C	TWO-CONDUCTOR (3/C, 4/C, ETC.)	CONTR	CONTRACTOR	GEN	GENERAL CONTRACTOR	NC	NOT APPLICABLE	SPR	SURFACE RACEWAY
2W	TWO-WIRE (3W, 4W, ETC.)	COORD	COORDINATE	GEN	GENERATOR	NA	NORMALLY CLOSED	SS	STAINLESS STEEL
3PH	3 PHASE	COR	CONTRACTING OFFICER'S	GRJ	GROUND	NEC	NATIONAL ELECTRICAL CODE	SSW	SELECTOR SWITCH
A	AMPERE	CRI	CONTROL POWER TRANSFORMER	GRND	GROUND	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION	STD	STANDARD
AAP	ALARM ANNUNCIATOR PANEL	CRT	COLOR RENDERING INDEX	GRS	GALVANIZED RIGID STEEL (CONDUIT)	NFDS	NON-FUSED SAFETY DISCONNECT	SURF	SURFACE MOUNTED
AC	ABOVE COUNTER	CPT	CURRENT TRANSFORMER	GYP BD	GYPSUM BOARD	HID	HIGH-INTENSITY DISCHARGE	SW	SWITCH
ACC	ACCESSIBLE	CT	CABLE TELEVISION	HIA	HAND-OFF-AUTOMATIC	HOA	HAND-OFF-AUTOMATIC	SWBD	SWITCHBOARD
ACLG	ACCESSIBLE ABOVE CEILING	CTR	CENTER	HOF	HAND-OFF-AUTOMATIC	HL	HIGH-INTENSITY DISCHARGE	SYM	SYMMETRICAL
ADO	AUTOMATIC DOOR OPENER	CJ	COPPER	HT	HEIGHT	HL	HIGH-INTENSITY DISCHARGE	SYS	SYSTEM
AIE	ARCHITECT/ENGINEER	CU FT	CUBIC FEET	HTR	HEATER	HL	HIGH-INTENSITY DISCHARGE	TC	TIMECLOCK
AF	AMP FRAME	D	DEMOLITION	HV	HIGH VOLTAGE	HT	HEATER	TEL	TELEPHONE
AFC	AVAILABLE FAULT CURRENT (KILOAMPS)	dB	DECIBEL	HV	HIGH VOLTAGE	HT	HEATER	TEL/DATA	TELEPHONE/DATA
AFB	ABOVE FINISHED FLOOR	DB	DIRECT BURIAL	HV	HIGH VOLTAGE	HT	HEATER	TERM	TERMINAL
AFG	ABOVE FINISHED GRADE	DC	DIRECT CURRENT	HV	HIGH VOLTAGE	HT	HEATER	TP	TWISTED PAIR
AFI	ARC FAULT CIRCUIT INTERRUPTER	DEG C	DEGREES CELSIUS	HV	HIGH VOLTAGE	HT	HEATER	TFS	TWISTED PAIR SHIELDED
AHJ	AUTHORITY HAVING JURISDICTION	DEG F	DEGREES FAHRENHEIT	HV	HIGH VOLTAGE	HT	HEATER	TR	TAMPER RESISTANT
AHU	AIR HANDLING UNIT	DEMO	DEMOLITION	HV	HIGH VOLTAGE	HT	HEATER	T-TSTAT	THERMOSTAT
AIC	AMPERE INTERRUPTING CAPACITY	DEPT	DEPARTMENT	HV	HIGH VOLTAGE	HT	HEATER	TTB	TELEPHONE TERMINAL BOARD
AL	ALUMINUM	DIA	DIAMETER	HV	HIGH VOLTAGE	HT	HEATER	TTCT	TELEPHONE TERMINAL CABINET
ALT	ALTERNATE	DISC	DISCONNECT	HV	HIGH VOLTAGE	HT	HEATER	TV	TELEVISION
AMP	AMPERE	DIST	DISTRIBUTION	HV	HIGH VOLTAGE	HT	HEATER	TYP	TYPICAL
APPROX	APPROXIMATELY	DN	DOWN	HV	HIGH VOLTAGE	HT	HEATER	UC	UNDER COUNTER
ARCH	ARCHITECT, ARCHITECTURAL	DS	SAFETY DISCONNECT SWITCH	HV	HIGH VOLTAGE	HT	HEATER	UE	UNDERGROUND ELECTRICAL
AT	AMP TRIP	DT	DOUBLE THROW	HV	HIGH VOLTAGE	HT	HEATER	UG	UNDERGROUND
ATS	AUTOMATIC TRANSFER SWITCH	DWG	DRAWING	HV	HIGH VOLTAGE	HT	HEATER	UH	UNIT HEATER
AUTO	AUTOMATIC	EM	ELECTROMAGNETIC INTERFERENCE	HV	HIGH VOLTAGE	HT	HEATER	UL	UNDERWRITER'S LABORATORY
AUX	AUXILIARY	EMS	ENERGY MANAGEMENT SYSTEM	HV	HIGH VOLTAGE	HT	HEATER	UL	UNDERGROUND TELEPHONE
AV	AUDIO VISUAL	EMT	ELECTRICAL METALLIC TUBING	HV	HIGH VOLTAGE	HT	HEATER	UTP	UNSHIELDED TWISTED PAIR
AWG	AMERICAN WIRE GAUGE	ELEC	ELECTRIC, ELECTRICAL	HV	HIGH VOLTAGE	HT	HEATER	UTL	UTILITY
BAS	BUILDING AUTOMATION SYSTEM	ELEV	ELEVATOR	HV	HIGH VOLTAGE	HT	HEATER	UV	UNIT VENTILATOR OR ULTRAVIOLET
BATT	BATTERY	EMERGENCY	EMERGENCY	HV	HIGH VOLTAGE	HT	HEATER	V	VOLT
BC	BARE COPPER	EMI	ELECTROMAGNETIC INTERFERENCE	HV	HIGH VOLTAGE	HT	HEATER	V	VOLT-AMPERES
BD	BOARD	EMS	ENERGY MANAGEMENT SYSTEM	HV	HIGH VOLTAGE	HT	HEATER	V	VOICE ALARM
BFF	BELOW FINISHED FLOOR	EOT	ELECTRICAL METALLIC TUBING	HV	HIGH VOLTAGE	HT	HEATER	V	VERTICAL
BLDG	BUILDING MANAGEMENT SYSTEM	EPO	EMERGENCY POWER OFF	HV	HIGH VOLTAGE	HT	HEATER	VFD	VARIABLE FREQUENCY DRIVE
BMS	BUILDING MANAGEMENT SYSTEM	EQUIP	EQUIPMENT	HV	HIGH VOLTAGE	HT	HEATER	VOLUME	VOLUME
BYP	BYPASS	ESMT	EASEMENT	HV	HIGH VOLTAGE	HT	HEATER	W	WATT
C	CONDUIT	ETR	EXISTING TO REMAIN	HV	HIGH VOLTAGE	HT	HEATER	W	WITH
CAB	CABINET	EWC	ELECTRIC WATER COOLER	HV	HIGH VOLTAGE	HT	HEATER	WH	WITHOUT
CALC	CALCULATED	EWH	ELECTRIC WALL HEATER	HV	HIGH VOLTAGE	HT	HEATER	WP	WEATHERPROOF
CAP	CAPACITY	EX	EXISTING	HV	HIGH VOLTAGE	HT	HEATER	WFM	TRANSFORMER
CAT	CATALOG, CATEGORY	EXP	EXPLOSION PROOF	HV	HIGH VOLTAGE	HT	HEATER	XFR	TRANSFER
CATV	COMMUNITY ANTENNA TELEVISION	FA	FIRE ALARM	HV	HIGH VOLTAGE	HT	HEATER	∠	ANGLE
CB	CIRCUIT BREAKER	FAAP	FIRE ALARM ANNUNCIATOR PANEL	HV	HIGH VOLTAGE	HT	HEATER	∞	AT
CCR	CONTROL CONTACTOR	FACP	FIRE ALARM CONTROL PANEL	HV	HIGH VOLTAGE	HT	HEATER	Δ	DELTA
CCT	CORRELATED COLOR TEMPERATURE	FC	FOOTCANDLE	HV	HIGH VOLTAGE	HT	HEATER	⊙	FEET
CCTV	CLOSED CIRCUIT TELEVISION	FCU	FAN COIL UNIT	HV	HIGH VOLTAGE	HT	HEATER	⊖	INCHES
CD	CANDELA	FXD	FIXTURE	HV	HIGH VOLTAGE	HT	HEATER	⊕	NUMBER
CD	CONSTRUCTION DOCUMENTS	FLR	FLOOR	HV	HIGH VOLTAGE	HT	HEATER	⊖	PHASE
CF	CONTRACTOR-FURNISHED	FU	FUSE	HV	HIGH VOLTAGE	HT	HEATER	⊖	CENTER LINE
CKT	CIRCUIT	FUSD	FUSED SAFETY DISCONNECT	HV	HIGH VOLTAGE	HT	HEATER	⊖	PLATE
CLG	CEILING	SW	SWITCH	HV	HIGH VOLTAGE	HT	HEATER		
CO	CONTRACTING OFFICER	FVR	FULL VOLTAGE REVERSING	HV	HIGH VOLTAGE	HT	HEATER		
COAX	COAXIAL CABLE	FVNR	FULL VOLTAGE NON-REVERSING	HV	HIGH VOLTAGE	HT	HEATER		
COMM	COMMUNICATION			HV	HIGH VOLTAGE	HT	HEATER		
CONN	CONNECTION			HV	HIGH VOLTAGE	HT	HEATER		

### ELECTRICAL GENERAL NOTES

- ALL ELECTRICAL DEVICES, FIXTURES, EQUIPMENT AND FEEDERS SHALL BE INSTALLED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, THE MANUFACTURER'S RECOMMENDED PROCEDURES, ALL APPLICABLE LOCAL AND STATE CODES, AMERICANS WITH DISABILITIES ACT AND WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND VA STANDARDS.
- PROVIDE ADDITIONAL SUPPORT FOR DEVICES, FIXTURES, EQUIPMENT AND FEEDERS WHERE THE BUILDING CONSTRUCTION IS NOT SUITABLE FOR DIRECT MOUNTING.
- FIRESTOP, DRAFTSTOP, SMOKESTOP AND/OR PROTECT THE ANNULAR SPACE AROUND ALL PENETRATIONS THROUGH WALLS, PARTITIONS, FLOORS, CEILING, AND ROOFS IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, UL LISTING REQUIREMENT AND THE APPLICABLE BUILDING CODES.
- VERIFY CEILING SYSTEMS AND PROVIDE MOUNTING ACCESSORIES, TRIMS AND ALL REQUIRED MOUNTING HARDWARE TO SUIT THE PARTICULAR INSTALLATION.
- PROTECT EXISTING UNDERGROUND AND BUILDING INTERIOR UTILITIES DURING CONSTRUCTION.
- BRANCH CIRCUIT CONDUCTORS SHALL BE 12 AWG COPPER MINIMUM.
- COORDINATE ANY AND ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION SO AS TO AVOID CONFLICT DURING CONSTRUCTION.
- ALL PANELS SHALL HAVE TYPED, COMPLETED DIRECTORIES INDICATING EQUIPMENT SERVED AND ROOM NUMBER (AS INDICATED ON FINAL BUILDING ROOM SIGNAGE) OF EQUIPMENT LOCATION, OR SPARE, OR SPACE.
- MANUFACTURER'S NAME AND MODEL NUMBER ARE GIVEN FOR DESCRIPTIVE PURPOSES, TO INDICATE A QUALITY STANDARD, AND ARE NOT INTENDED TO LIMIT PRODUCTS TO A PARTICULAR MANUFACTURER. PRODUCTS DEEMED EQUAL AND APPROVED BY THE DESIGNER WILL BE ACCEPTED. ALL PRODUCTS MUST COMPLY WITH "BUY AMERICAN ACT."
- ALL FEEDERS AND CIRCUITRY SHALL BE TORQUED PER THE PANEL, BREAKER, AND/OR PARTICULAR EQUIPMENT MANUFACTURER'S SPECIFICATIONS.
- CIRCUITRY TO SWITCHES, RECEPTACLES, AND ALL OTHER DEVICES SHALL BE TERMINATED ON THE DEVICE'S SCREW TERMINALS.
- MOUNTING HEIGHTS INDICATED ARE TO CENTER OF DEVICE, OUTLET, FIXTURE, OR EQUIPMENT UNLESS NOTED OTHERWISE.
- ALL WIRE TERMINATIONS SHALL BE RATED FOR 75 DEGREES C.
- ALL CONDUCTORS SHALL HAVE THHN/THWN INSULATION, UNLESS OTHERWISE NOTED.
- ALL CONDUIT SHALL BE RGS OR EMT UNLESS OTHERWISE NOTED. FMC CONDUIT SHALL BE USED ON VIBRATING EQUIPMENT (MAXIMUM LENGTH OF 6 FEET). PVC SHALL BE USED FOR UNDERGROUND CONDUIT OR WHERE CONCRETE-ENCASED, WHERE VIBRATING EQUIPMENT IS LOCATED OUTSIDE. LFMC CONDUIT SHALL BE USED (MAXIMUM SIX FEET) FOR FINAL CONNECTIONS.
- ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES AND EQUIPMENT SHALL BE LABEL LISTED BY AN APPROVED THIRD PARTY TESTING AGENCY.
- FOR ALL LED FIXTURES, THE FIXTURE MUST BE CAPABLE OF SELF-RESETTING TO THE SWITCHED/CONTROLLED STATE DURING ANY FLUCTUATION IN POWER SUPPLY WHERE AUTOMATIC PROTECTIVE MEASURES DISABLE THE LED LAMPS. PROVIDE A LETTER OR STATEMENT FROM THE MANUFACTURER, OR OTHER ACCEPTABLE PROOF, THAT ALL LED FIXTURES, WITH OR WITHOUT BROWNOUT PROTECTION, WILL RETURN TO THE SWITCHED/CONTROLLED STATE AUTOMATICALLY. PROVIDE STATEMENT WITH THE FIXTURE SUBMITTALS.
- IN CASE OF CONFLICTS OR DISCREPANCIES WITHIN OR AMONG THE CONTRACT DRAWINGS, THE BETTER QUALITY, MORE STRINGENT REQUIREMENTS OR GREATER QUANTITY OF WORK, AS DETERMINED BY THE GOVERNMENT, SHALL BE PROVIDED.
- COMPRESSION COUPLINGS SHALL BE USED. NO SET SCREW FITTINGS ARE ALLOWED.
- MINIMUM CONDUIT SIZE TO BE USED IS 3/4".
- FEEDER TAGS APPENDED WITH 'VD' ARE UPSIZED IN AMPACITY DUE TO VOLTAGE DROP.
- ALL NEW RECEPTACLES SHALL BE HOSPITAL GRADE.

### ELECTRICAL SYMBOL NOTES

**A1 b** THE LIGHTING FIXTURE TYPE IS INDICATED BY AN UPPER CASE LETTER OR AN UPPER CASE LETTER AND NUMBER. THE SWITCH DESIGNATION (IF NEEDED) IS INDICATED BY A LOWER CASE LETTER.

EXAMPLE: LIGHTING FIXTURE TYPE 'A1' IS CONTROLLED BY SWITCH 'b'.

EXIT SIGNS: STEM INDICATES WALL MOUNTING. NO STEM INDICATES CEILING MOUNTING. SHADED AREA INDICATES ILLUMINATED FACE(S). ARROW INDICATES DIRECTIONAL ARROW ON ILLUMINATED FACE(S).

EXAMPLE 1: WALL MOUNTED EXIT SIGN TYPE 'E1' WITH SINGLE FACE AND DIRECTIONAL ARROW.

EXAMPLE 2: CEILING MOUNTED EXIT SIGN TYPE 'E2' WITH DOUBLE FACE AND DIRECTIONAL ARROWS.

DEVICES: THE SWITCH DESIGNATION IS INDICATED BY A LOWER CASE LETTER.

EXAMPLE: SPLIT DUPLEX RECEPTACLE, ONE RECEPTACLE OUTLET IS CONTROLLED BY SWITCH 'c'.

THE CONTROL DEVICE DESIGNATION IS INDICATED BY A LOWER CASE LETTER.

EXAMPLE: SINGLE POLE SWITCH 'd' TO CONTROL LIGHTING FIXTURES INDICATED BY 'd'.

TRANSFORMERS: THE TRANSFORMER TYPE IS INDICATED BY A NUMBER FOLLOWING THE UPPER CASE LETTER 'T'. SEE THE TRANSFORMER SCHEDULE OR THE SINGLE LINE DIAGRAM FOR THE TRANSFORMER DESCRIPTION AND REQUIREMENTS.

EXAMPLE: TRANSFORMER TYPE 'T1'.

PANELBOARDS: PANELBOARD DOORS MAY BE SHOWN TO INDICATE OPENING SIDE OF RECESSED PANELBOARDS. SEE PANELBOARD IDENTIFICATION FOR DESIGNATION CODES.

SHEET KEY NOTE: SEE THE SHEET KEY NOTES ON THAT SHEET FOR THE NOTE NUMBER INDICATED IN THE HEXAGON.

# DEMOLITION KEY NOTE: SEE THE SHEET KEY NOTES ON THAT SHEET FOR THE NOTE NUMBER INDICATED IN THE SQUARE.

HOME RUN TO BRANCH CIRCUIT PANEL: THE PANEL DESIGNATION AND CIRCUIT DESIGNATION ARE SHOWN ADJACENT TO THE HOME RUN ARROW. CIRCUIT BREAKER SIZES (AMPERE NUMBER OF POLES) ARE SHOWN IN THE PANEL SCHEDULE WITH THE CORRESPONDING PANEL AND CIRCUIT DESIGNATION.

EXAMPLE: HOME RUN TO PANELBOARD 'LPN'; CIRCUITS 1, 3, 5.

SYMBOL NOTATIONS: UPPER CASE LETTERS ADJACENT TO SYMBOLS INDICATE A UNIT TYPE. SEE APPROPRIATE SCHEDULE OR SPECIFICATIONS.

### LIGHTING SYMBOL LEGEND

SYMBOL	HEIGHT AFF *	DESCRIPTION
	---	2' X 2' RECESSED ARCHITECTURAL TROFFER
	---	2' X 4' RECESSED ARCHITECTURAL TROFFER
	---	2' X 4' RECESSED ARCHITECTURAL TROFFER - EMERGENCY BACK UP
	---	2' X 4' RECESSED FLAT LENS TROFFER
	---	1' X 4' RECESSED FLAT LENS TROFFER
	---	2' LINEAR - SURFACE MOUNTED
	7'-0\"/>	2' LINEAR - WALL MOUNTED
	7'-0\"/>	4' LINEAR - WALL MOUNTED
	---	4' LINEAR STRIP - SUSPENDED
	---	6" DIAMETER RECESSED DOWNLIGHT
	---	6" DIAMETER RECESSED DOWNLIGHT
	7'-0\"/>	EXIT SIGN - WALL MOUNTED
	---	EXIT SIGN - CEILING MOUNTED
	7'-6\"/>	EMERGENCY LIGHT BATTERY OPERATED - WALL MOUNTED
	9'-0\"/>	WALL PACK
	9'-0\"/>	WALL PACK - EMERGENCY BACK UP
	48\"/>	SINGLE POLE WALL SWITCH
		SWITCH MODIFIERS: OS: OCCUPANCY SENSOR, LOW VOLTAGE, DUAL TECHNOLOGY VS: VACANCY SENSOR, LOW VOLTAGE, DUAL TECHNOLOGY DR: DUAL RELAY VSD: VACANCY SENSOR, LINE VOLTAGE, DIMMER LVD: LOW VOLTAGE DIMMER LV: LOW VOLTAGE D: LINE VOLTAGE DIMMER T: DIGITAL TIMER K: KEYED 3: 3 WAY 4: 4 WAY
	---	OCCUPANCY SENSOR, LOW VOLTAGE, DUAL TECHNOLOGY - CEILING MOUNTED
	---	OCCUPANCY SENSOR, LOW VOLTAGE, DUAL TECHNOLOGY - WALL/CORNER MOUNTED
	---	LOW VOLTAGE LIGHTING CONTROL DEVICE
	---	LOW VOLTAGE LIGHTING CONTROL DEVICE WITH 0-10V DIMMING
	---	LOW VOLTAGE LIGHTING CONTROL DEVICE WITH 0-10V DIMMING
	---	LIGHT LEVEL SENSOR, SINGLE ZONE DIMMING CLOSED LOOP - CEILING MOUNTED

\* - ANY HEIGHTS INDICATED IN PLANS SHALL SUPERSEDE THOSE LISTED HERE.

### ELECTRICAL SYMBOL LEGEND

SYMBOL	HEIGHT	DESCRIPTION
	18"	120V SIMPLEX RECEPTACLE
	18"	120V DUPLEX RECEPTACLE
	18"	120V DUPLEX RECEPTACLE EMERGENCY OUTLET AND COVER PLATE SHALL BE RED IN COLOR
	18"	120V QUADRUPLEX RECEPTACLE
	18"	120V QUADRUPLEX RECEPTACLE EMERGENCY OUTLET AND COVER PLATE SHALL BE RED IN COLOR
	18"	208V DUPLEX RECEPTACLE
	18"	SPECIAL RECEPTACLE
		120V DUPLEX RECEPTACLE FLOOR BOX
		120V DUPLEX RECEPTACLE EMERGENCY FLOOR BOX OUTLET AND COVER PLATE SHALL BE RED IN COLOR
		120V QUADRUPLEX RECEPTACLE FLOOR BOX
		120V QUADRUPLEX RECEPTACLE EMERGENCY FLOOR BOX OUTLET AND COVER PLATE SHALL BE RED IN COLOR
		RECEPTACLE MODIFIERS: AC: 3" ABOVE COUNTERTOP/BACKSPLASH GFI: GROUND FAULT CURRENT INTERRUPTER WP: WEATHERPROOF ENCLOSURE DED: DEDICATED CIRCUIT
	AS NOTED	JUNCTION BOX, WALL MOUNTED, PURPOSE AS NOTED
	AS NOTED	JUNCTION BOX, CEILING MOUNTED, PURPOSE AS NOTED
	AS NOTED	JUNCTION BOX, FLOOR MOUNTED, PURPOSE AS NOTED
	AS NOTED	EQUIPMENT CONNECTION
	72" TOP	DISCONNECT SWITCH NON-FUSED
	72" TOP	DISCONNECT SWITCH FUSED
	48"	SINGLE POLE WALL SWITCH: 48" AFF STANDARD UNO
		SWITCH MODIFIERS: M: MOTOR-RATED

ALL HEIGHTS ARE TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.  
TOP: HEIGHT TO TOP OF DEVICE  
ANY HEIGHTS INDICATED IN PLANS SHALL SUPERSEDE THOSE LISTED HERE.

### DEDUCTIVE ALTERNATES:

DELETE ALL WORK ASSOCIATED WITH THE NEW SECOND FLOOR POLICE SUITE, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED DEMOLITION AND NEW CONSTRUCTION.

**FULLY SPRINKLERED  
100% CONSTRUCTION DOCUMENTS**

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#	Revisions:	Date											











































