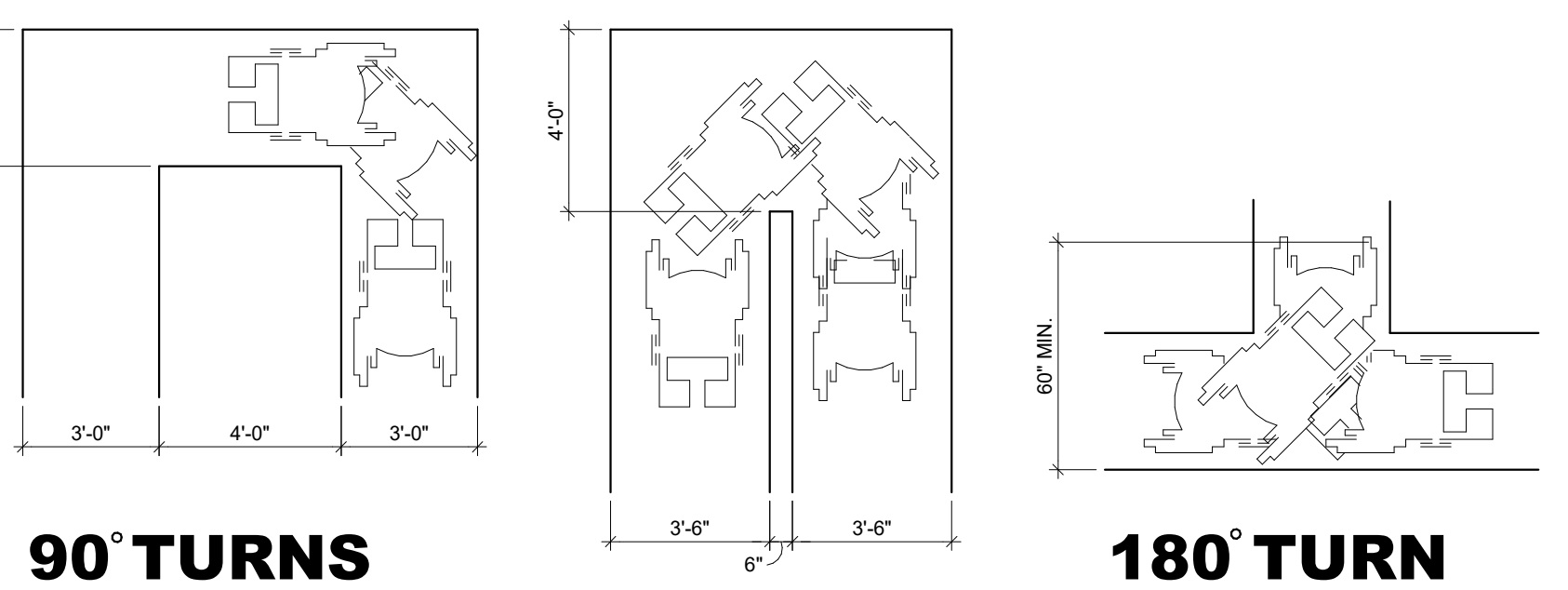


**ELEVATOR MOUNTING HEIGHTS**

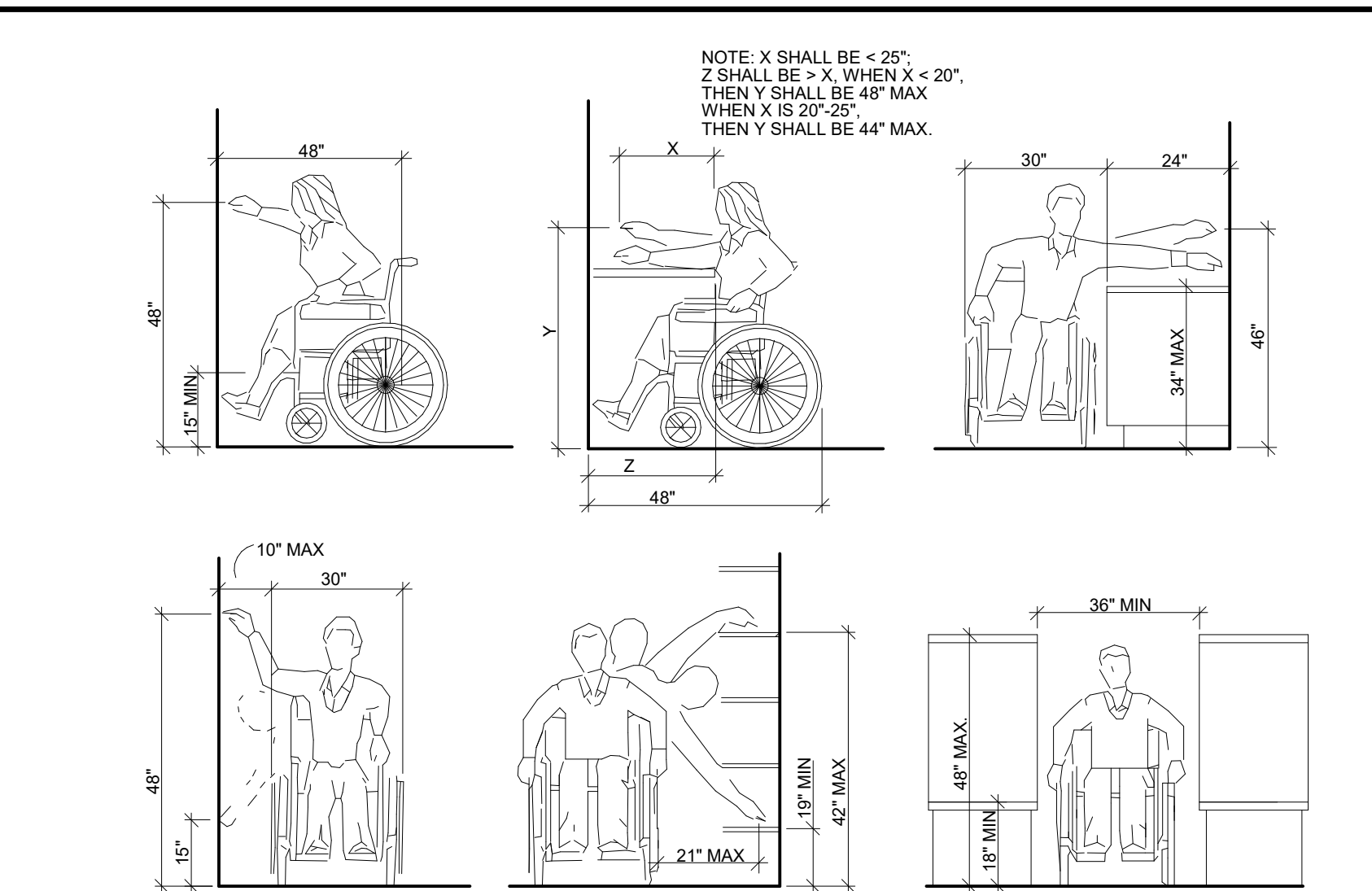
**MEDICAL EQUIPMENT**

NO SCALE



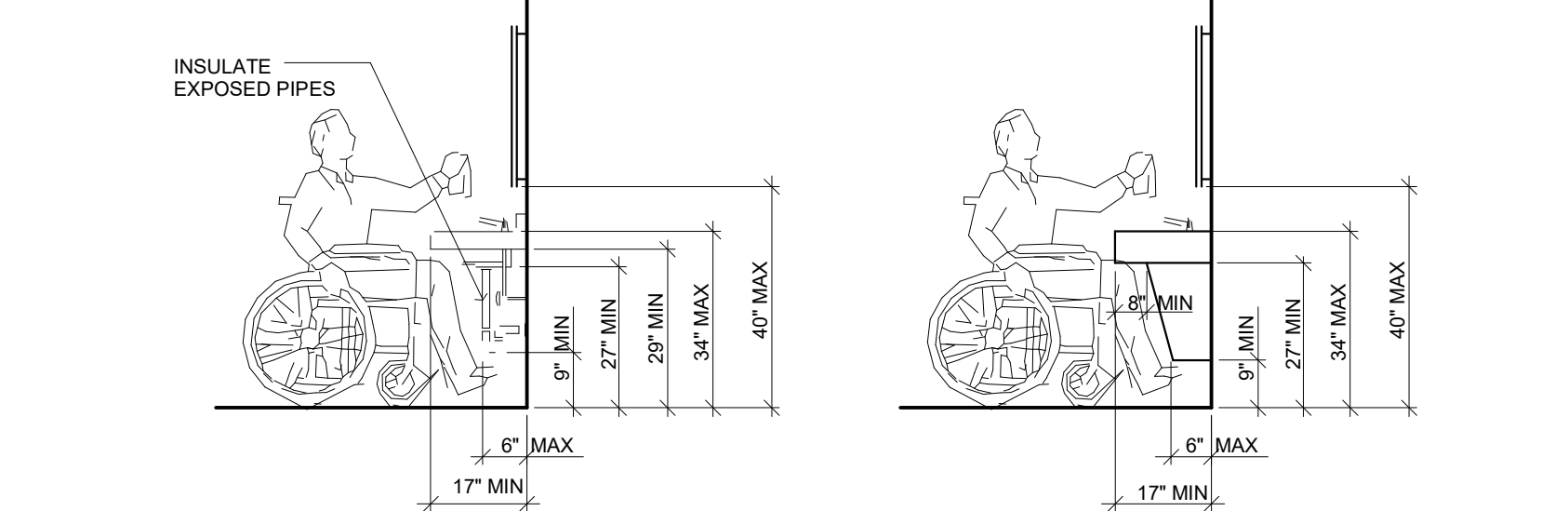
**90° TURNS**

**180° TURN**



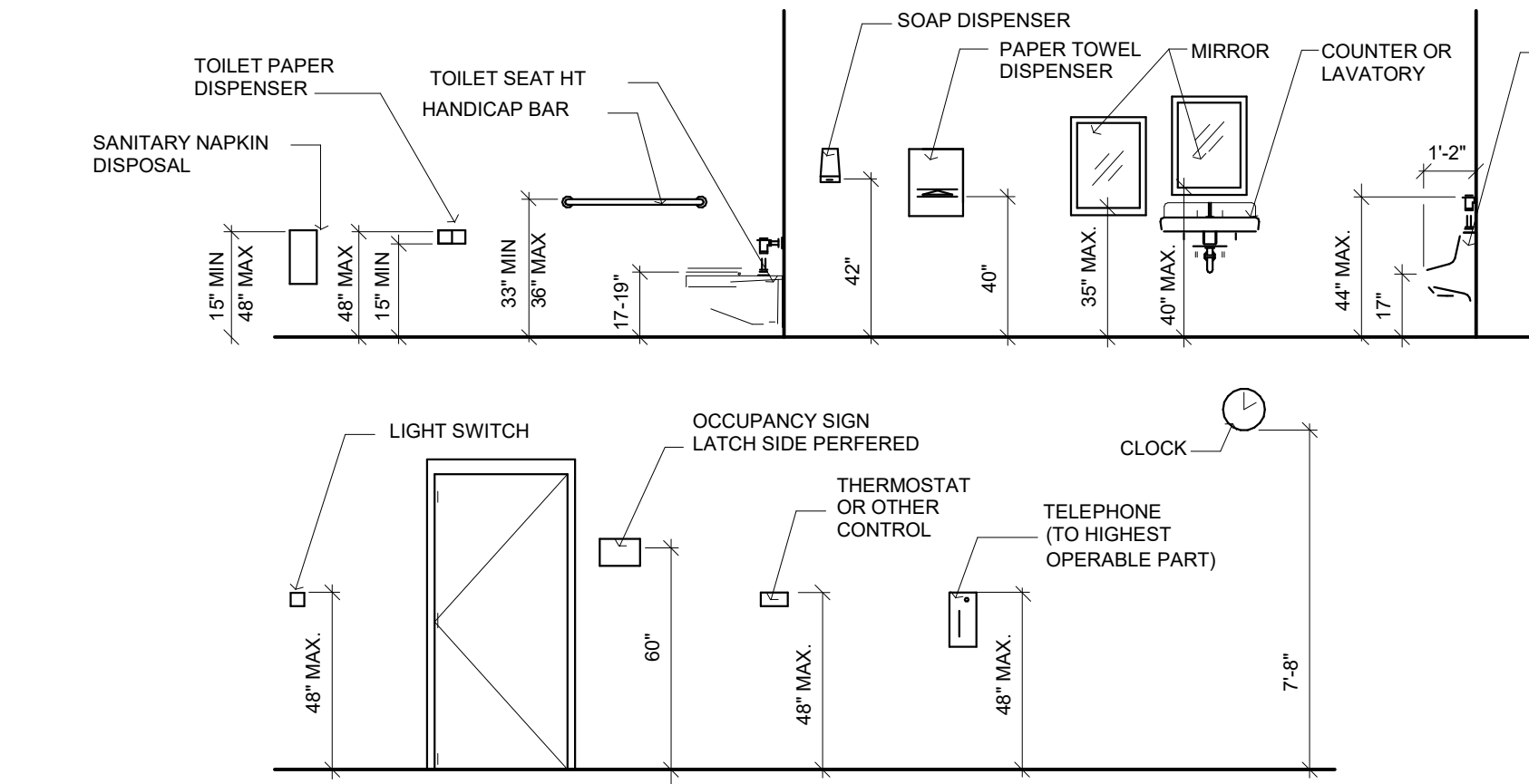
**GENERAL REACH DIMENSIONS**

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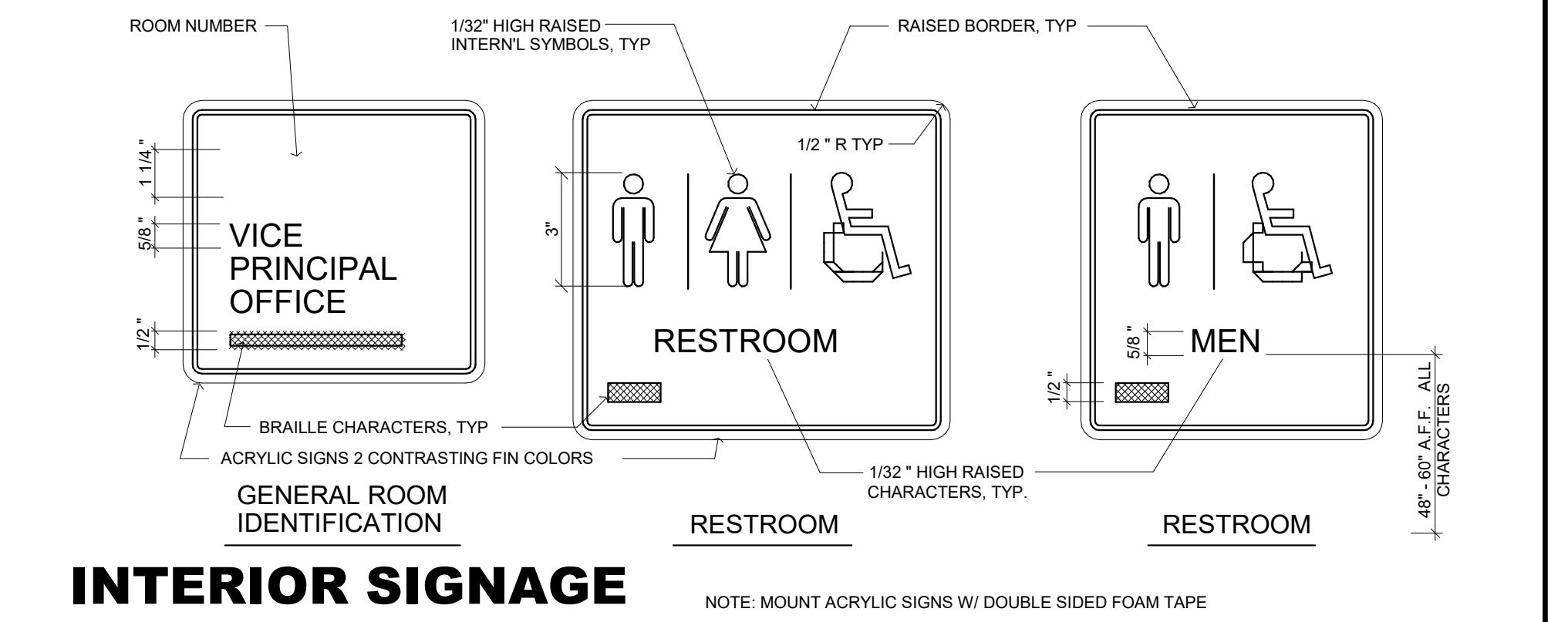
**LAVATORY DIMENSIONS**

NO SCALE



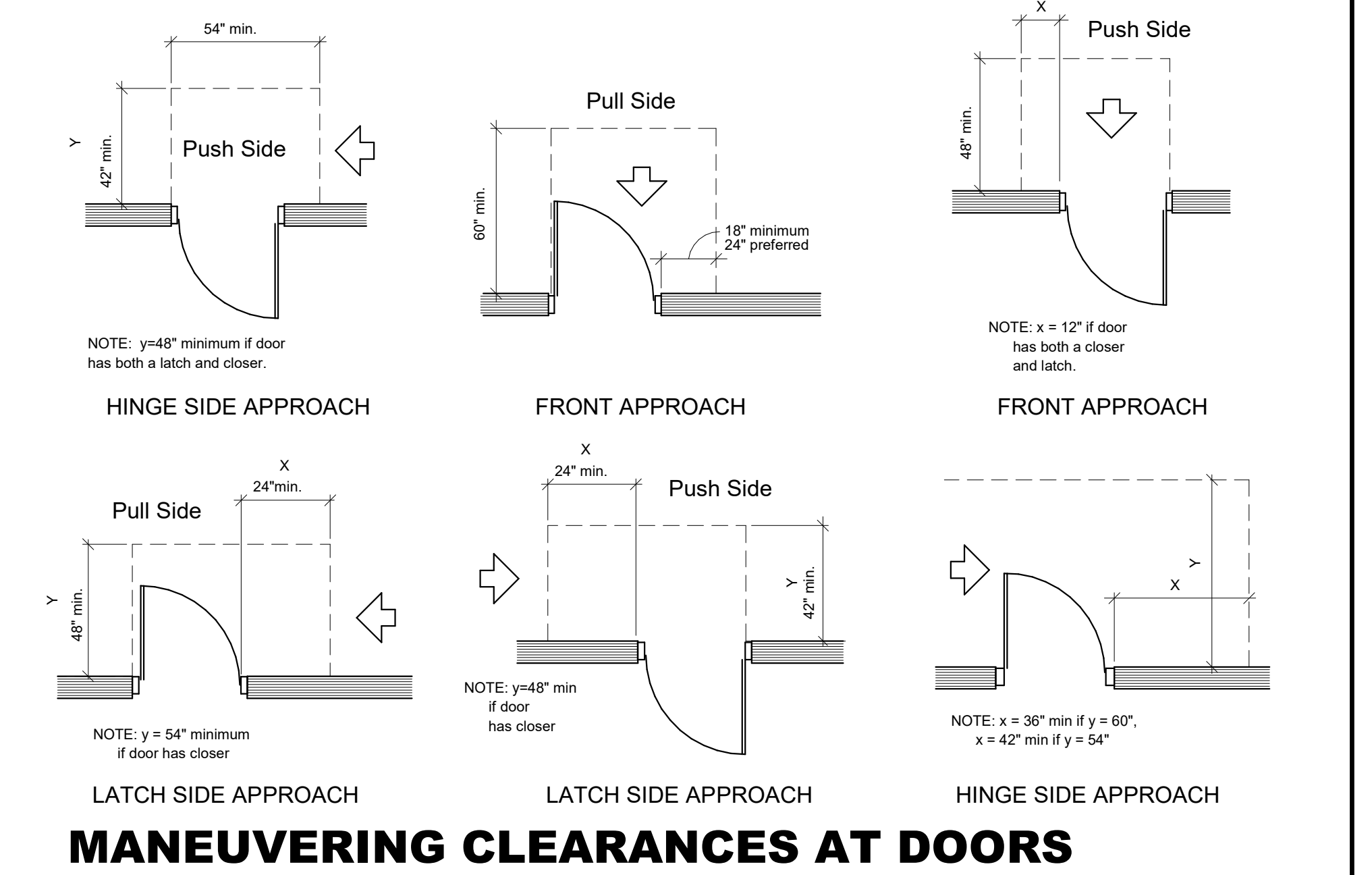
**MOUNTING HEIGHT DIMENSIONS**

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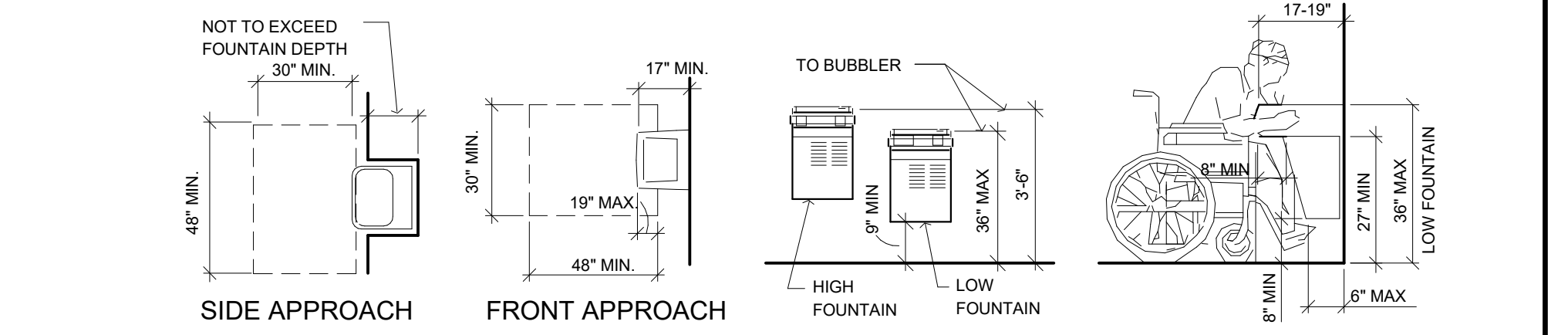
**INTERIOR SIGNAGE**

NO SCALE



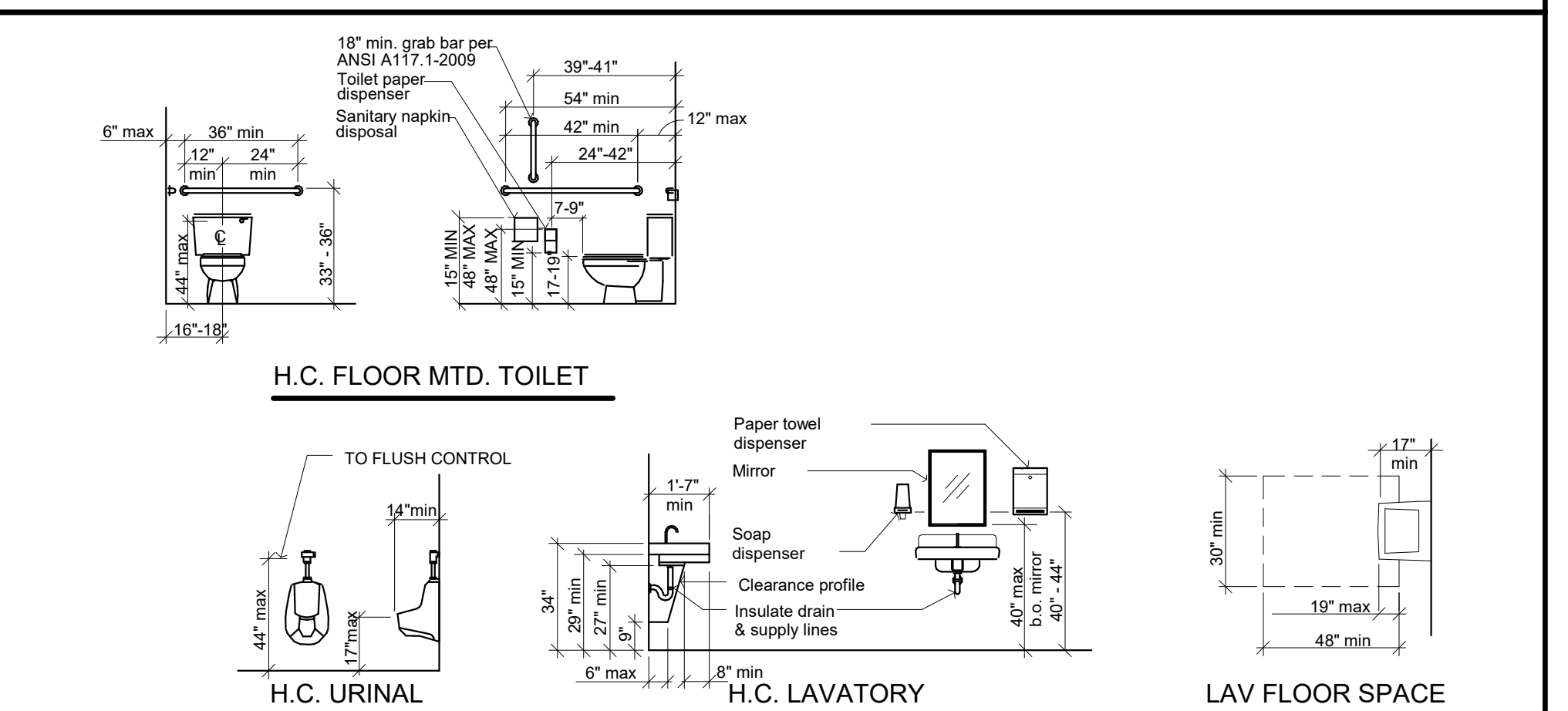
**MANEUVERING CLEARANCES AT DOORS**

NO SCALE



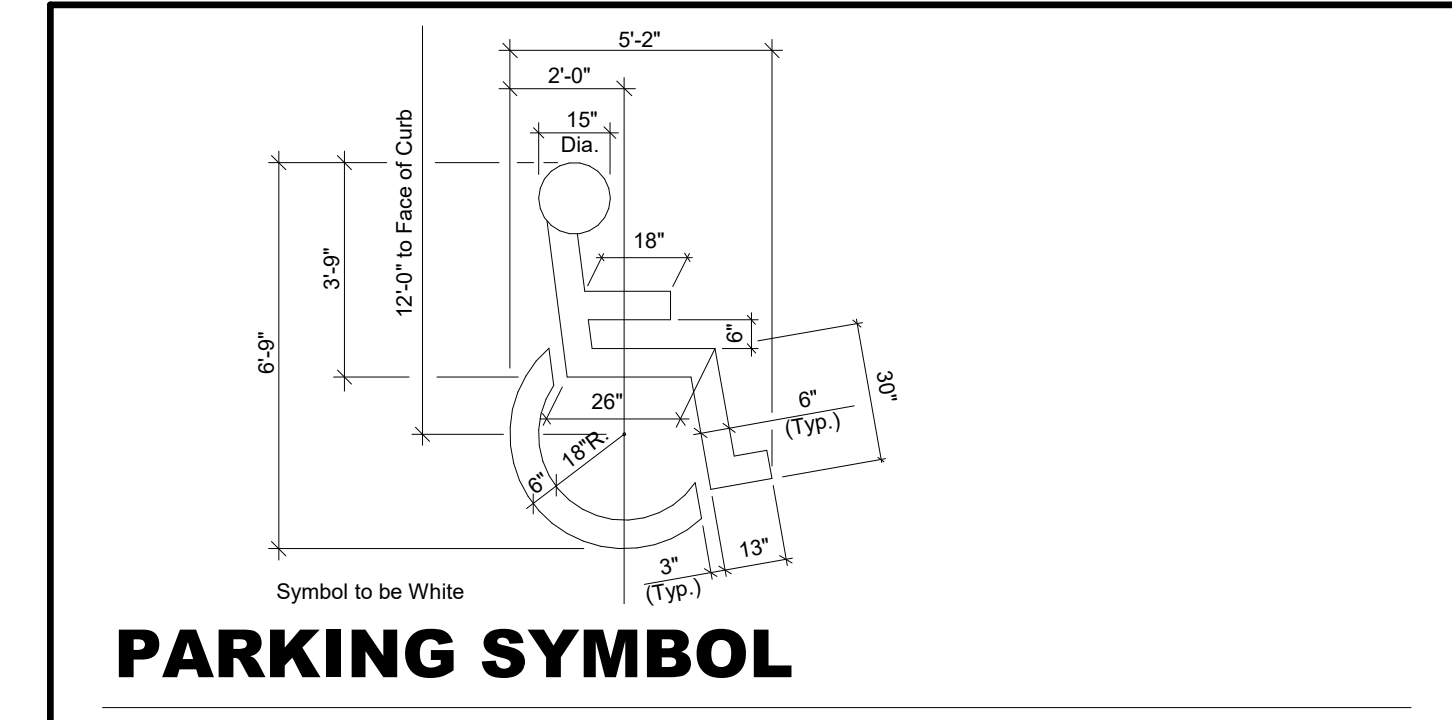
**DRINKING FOUNTAINS**

NO SCALE



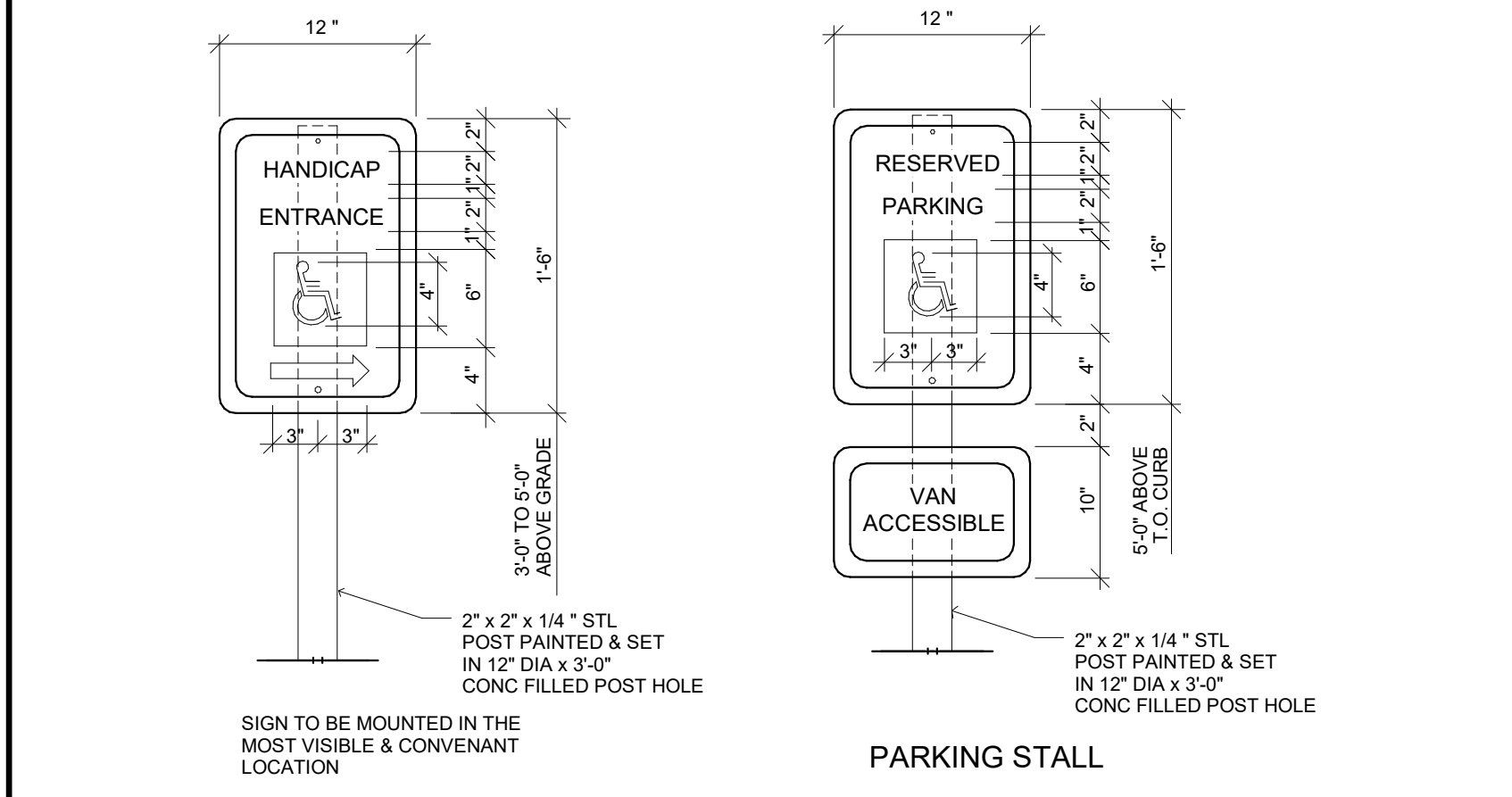
**BATHROOM FIXTURES & ACCESSORIES**

NO SCALE



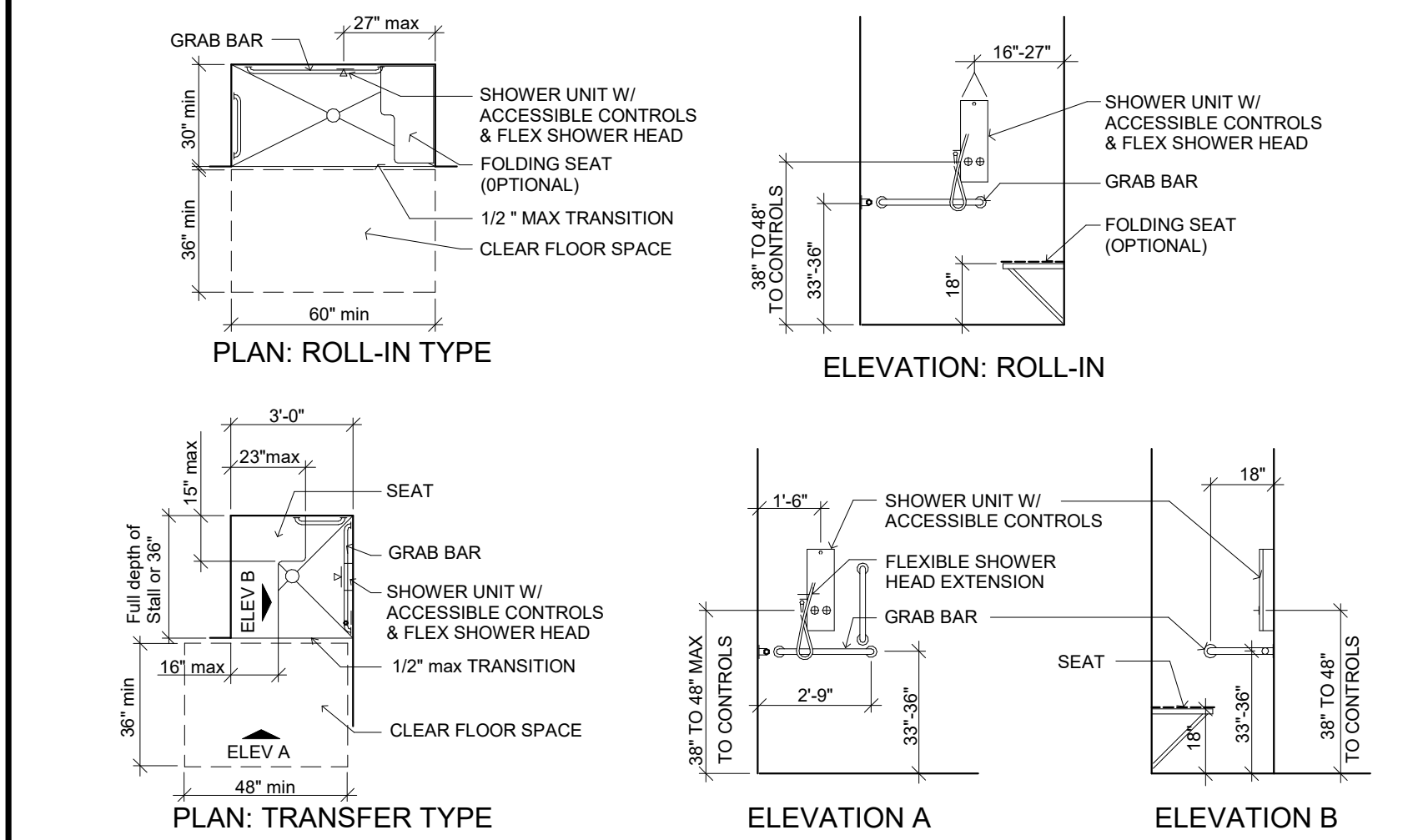
**PARKING SYMBOL**

NO SCALE



**OUTDOOR SIGNAGE**

NO SCALE



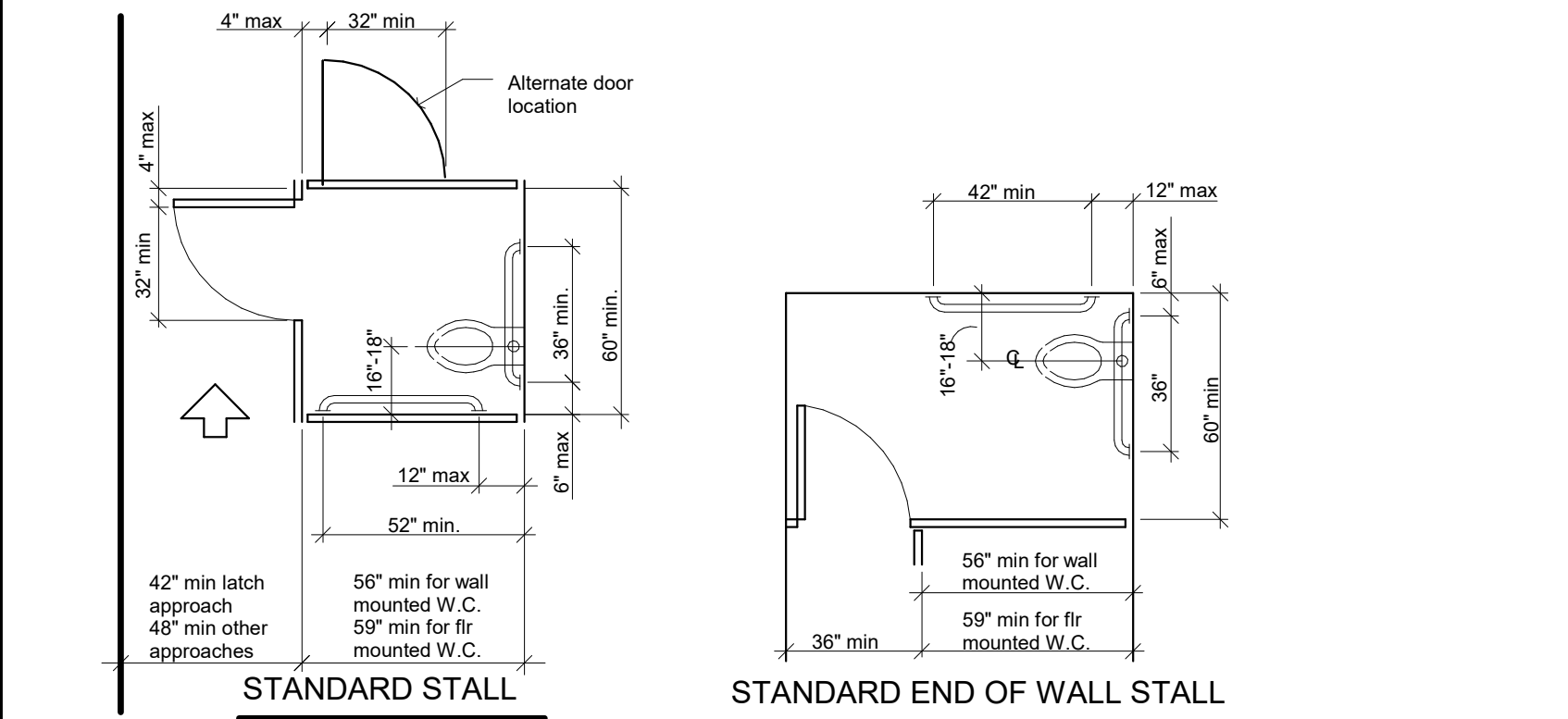
**ACCESSIBLE SHOWER**

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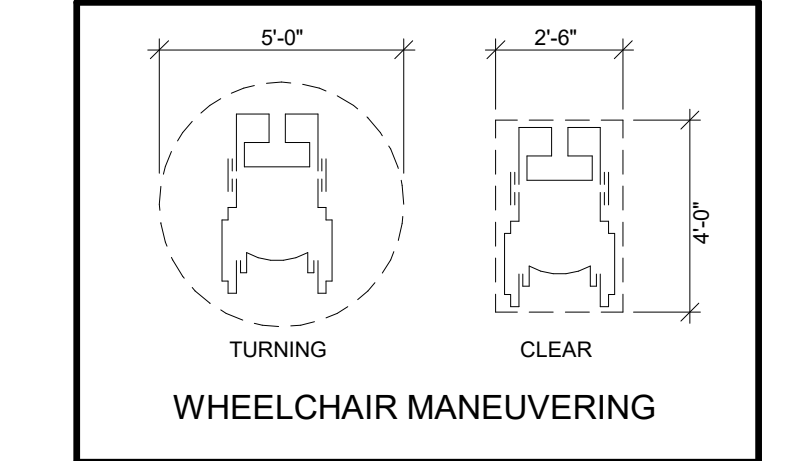
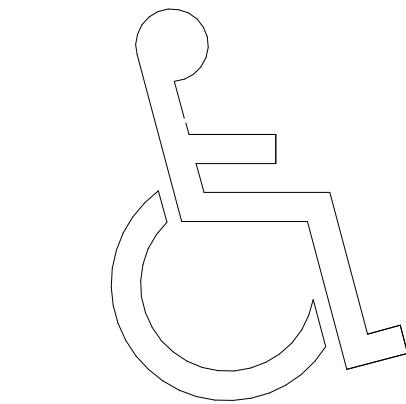
**ACCESSIBLE SINGLE TOILET**

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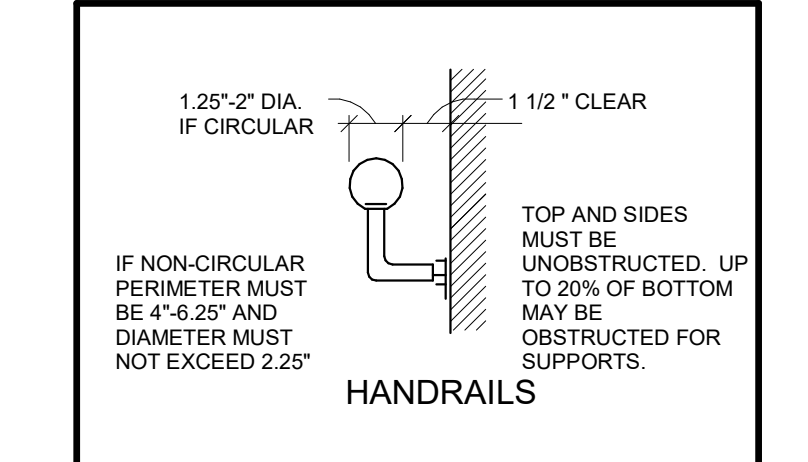


**ACCESSIBLE TOILET STALLS**

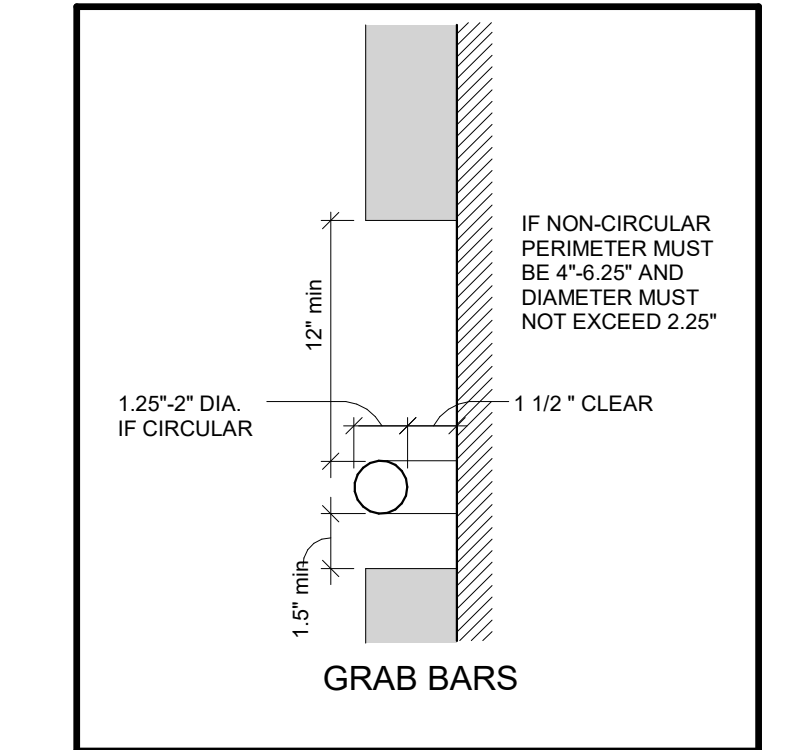
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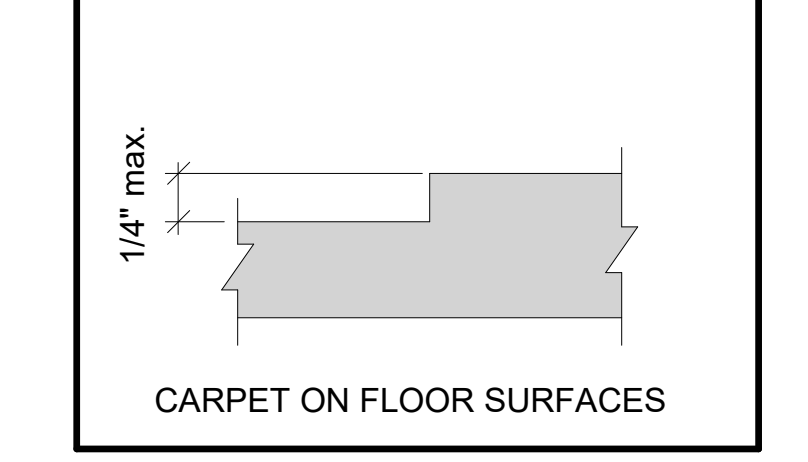
**WHEELCHAIR MANEUVERING**



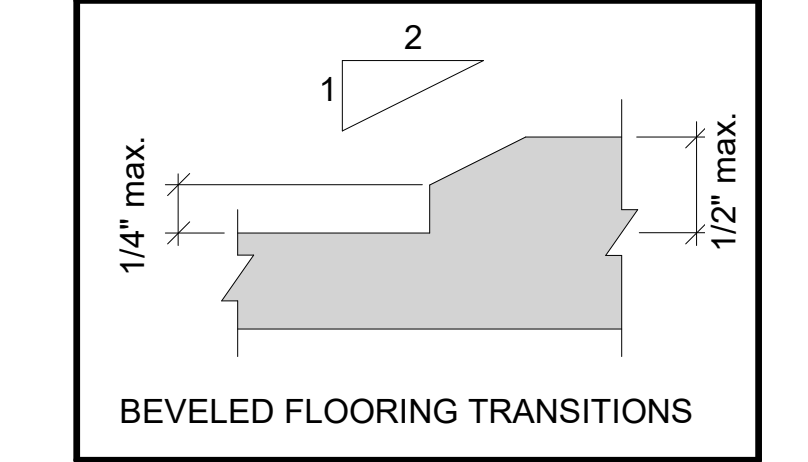
**HANDRAILS**



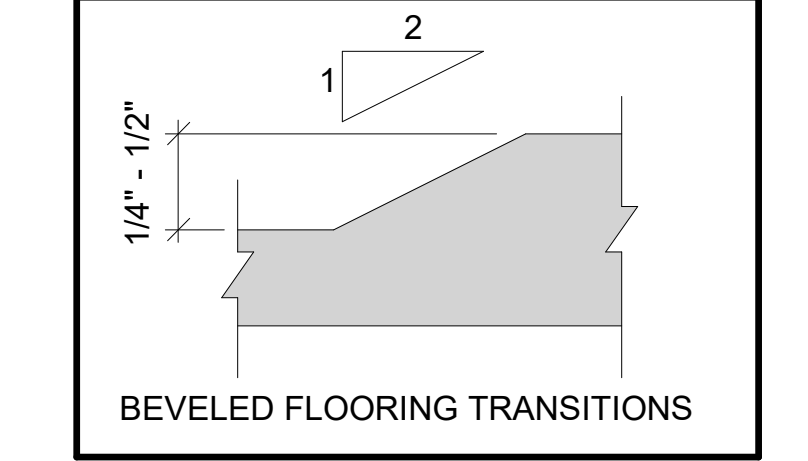
**GRAB BARS**



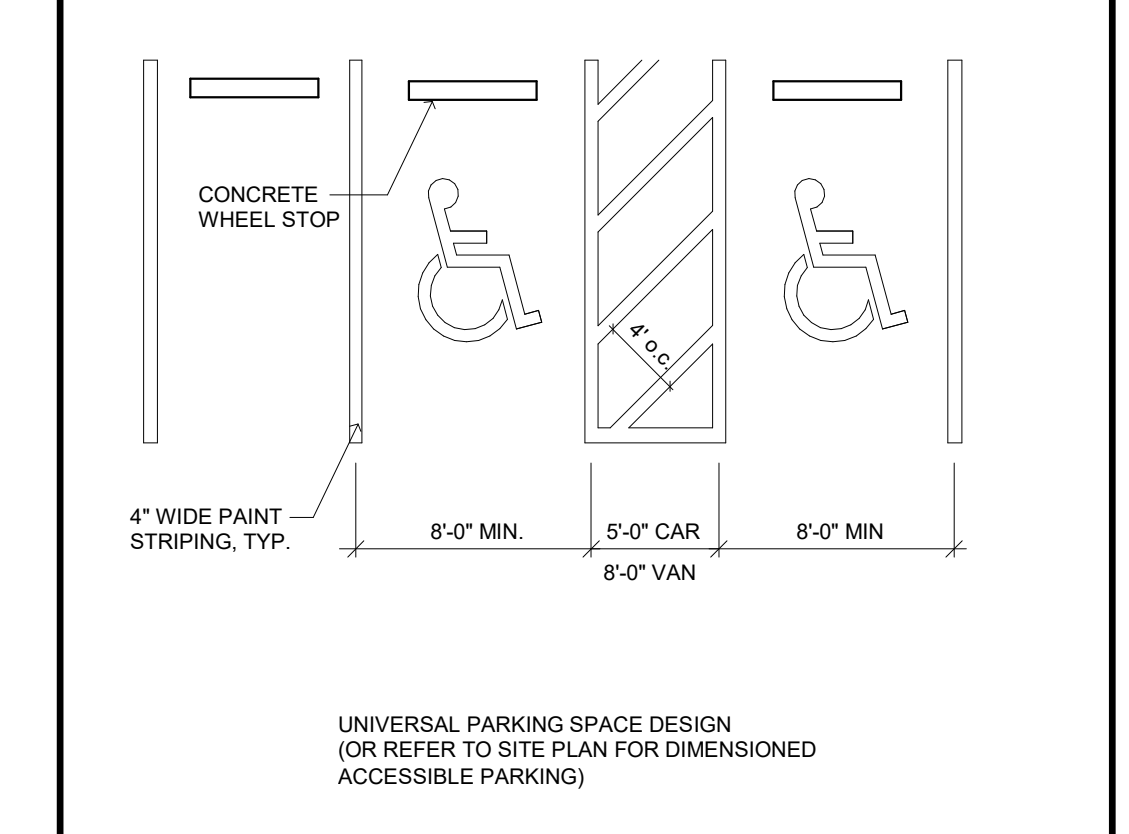
**CARPET ON FLOOR SURFACES**



**BEVELED FLOORING TRANSITIONS**



**BEVELED FLOORING TRANSITIONS**



**PARKING SPACES**

NO SCALE

No.	Description	Date

CONSULTANTS:

ARCHITECT/ENGINEERS:

**m:HFG**

ARCHITECTURE

117 PIERCE ST., SUITE 110  
SIOUX CITY, IOWA

**PEC**

142 N. MOSELY ST  
WICHITA, KANSAS

Drawing Title

**ABA SHEET**

Project Title		Project Number	
CONSTRUCT PHARMACY STERILE SOLUTIONS ROOMS B3		589A7-17-181	
Location		Drawing Number	
Robert J. Dole VA Medical Center WICHITA, KANSAS		ABA	
Date	Checked	Drawn	
Issue Date	Checker	JWRIGHT	

Office of Construction and Facilities Management

Department of Veterans Affairs

**CODE INFORMATION**

PROJECT INFORMATION:

- 1. CONSTRUCTION PURPOSE: RENOVATION
- 2. REASON FOR SUBMITTAL: NEW CONSTRUCTION
- 3. I CERTIFY THAT TO THE BEST OF OUR KNOWLEDGE THE SUBMITTED PLANS FOR THE ABOVE-REFERENCED PROJECT COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING:
  - 2012 INTERNATIONAL BUILDING CODE (IBC)
  - 2014 INTERNATIONAL MECHANICAL CODE (IMC)
  - 2014 INTERNATIONAL PLUMBING CODE (IPC)
  - 2014 NATIONAL ELECTRICAL CODE (NFPA-70)
  - 2015 LIFE SAFETY CODE (NFPA-101)
  - 2015 ABA ACCESSIBILITY STANDARDS
- 4. LOCATION OF ANY ANTICIPATED FUTURE ADDITIONS: UNKNOWN

5. OWNER:  
ROBERT J. DOLE VA MEDICAL CENTER  
5500 E. KELLOGG  
WICHITA, KS. 67218  
(316)986-2221

6. DATE DEVELOPED: 10-24-2017  
7. DESIGN TEAM:  
ARCHITECT:  
HEALTH FACILITIES GROUP, LLC  
142 N. MOSELY ST., SUITE 300  
WICHITA, KS 67202 316-262-2500  
CONTACT: NAME

DESIGN CONSULTANTS:  
PROFESSIONAL ENGINEERING CONSULTANTS  
303 S. TOPEKA  
WICHITA, KS 67202 316-262-2891  
CONTACT:  
BRIAN HENRY (MECHANICAL)  
EMAIL ADDRESS: BRIAN.HENRY@PEC1.COM  
BRETT WALBRIDGE (ELECTRICAL)  
EMAIL ADDRESS: BRETT.WALBRIDGE@PEC1.COM  
JOY CARMICHAEL (PLUMBING)  
EMAIL ADDRESS: JOY.CARMICHAEL@PEC1.COM

8. ARCHITECTS SEAL: SEE STAMP AT RIGHT  
9. FIRE SERVICE: CITY OF WICHITA FIRE DEPARTMENT  
10. INSPECTION: VSN SAFETY OFFICER  
11. OCCUPANCY GROUP TYPE:  
OCCUPANCY - BUSINESS (B)

12. CONSTRUCTION TYPE: 1A

13. STRUCTURAL CODE REQUIREMENTS

A. ALLOWABLE FLOOR AREA FROM IBC TABLE 503:

TOTAL ALLOWABLE FLOOR AREA: UNLIMITED

ACTUAL FLOOR AREA:

OCCUPANCY - BUSINESS (B)

2ND FLOOR = 4,819 SF

FIRST FLOOR = 4,819 SF

LOWER LEVEL = 4,819 SF

TOTAL = 14,457 SF

B. ALLOWABLE HEIGHT CALCULATIONS

OCCUPANCY - (B)

TYPE OF CONSTRUCTION: TYPE 1A

ALLOWABLE STORIES: UNLIMITED

ALLOWABLE HEIGHT: UNLIMITED

ACTUAL STORIES: 3

ACTUAL HEIGHT: 45'-2"

NO HEIGHT MODIFICATIONS REQUIRED

C. FIRE-RESISTANCE RATING FOR BUILDING ELEMENTS (TYPE 1A)

- 1. STRUCTURAL FRAME: 3HR
- 2. BEARING WALLS:
  - A. EXTERIOR: 3HR
  - B. INTERIOR: 3HR
- 3. NONBEARING WALLS:
  - A. EXTERIOR: PER TABLE 602
  - B. INTERIOR: NON-COMBUSTIBLE
- 4. FLOOR CONSTRUCTION: 2HR  
(INCLUDES SUPPORTING BEAMS & JOISTS)
- 5. ROOF CONSTRUCTION: 1HR  
(INCLUDES SUPPORTING BEAMS & JOISTS)
- 6. SHaft ENCLOSURES: 1HR (707.4)
- MISCELLANEOUS REQUIREMENTS: (2012 IBC)

- 1. TABLE 302.3.3.
- 2. 1 HR OCCUPANCY SEPARATION REQUIRED BETWEEN 1-2 & B OCCUPANCIES
- OCCUPANCY SEPARATION NEED NOT BE PROVIDED FOR INDOLE STORAGE

14. ACTIVE FIRE SAFETY SYSTEMS

\*NOTE:  
ALL AREAS OF NEW & EXISTING CONSTRUCTION OF THIS PROJECT WILL BE FULLY SPRINKLERED.  
SPRINKLER SYSTEM SHALL COMPLY WITH NFPA 13 IN ALL AREAS

- (a) SMOKE DETECTORS THROUGHOUT
- (b) GENERATOR POWERED EMERGENCY LIGHTING
- (c) BATTERY POWERED EXIT LIGHTING
- (d) HOOD SUPPRESSION SYSTEM
- (e) PORTABLE EXTINGUISHERS
- (f) AUTOMATIC AIR-HANDLING SHUT-DOWN
- (g) FIRE ALARM SYSTEM

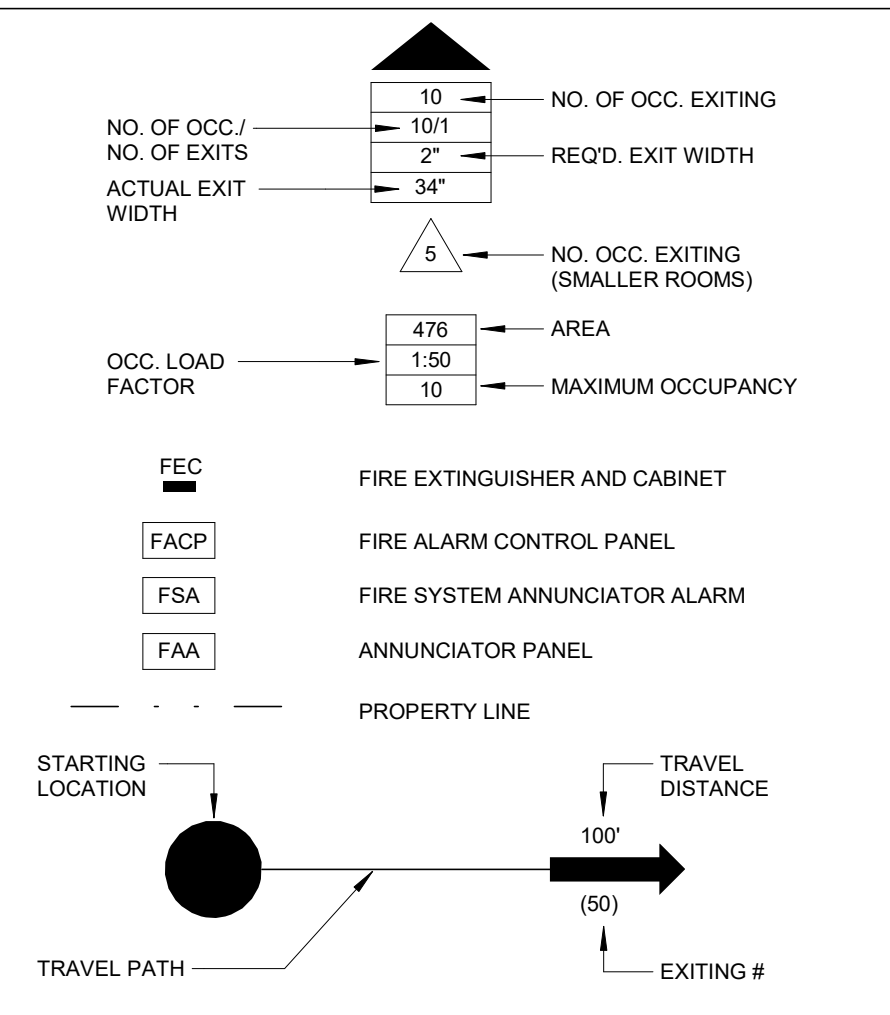
- 15. WATER SUPPLY: CITY OF WICHITA
- 16. SEWAGE TREATMENT: CITY OF WICHITA
- 17. HANDICAP PROVISIONS:  
ACCESSIBLE ROUTE, TOILETS, LAVATORIES, SIGNAGE AND PARKING

**BUILDING & LIFE SAFETY REQUIREMENTS**

**LEGEND**

NEW PARTITION KEY	WALL RATING	DESCRIPTION	NFPA 2000 (EXIST. HC)	NFPA 2000 (NEW HC)	IBC 2015	OPENINGS		DAMPERS	
						RATING	FRNC.	TYPE	FRNC.
[Key 1]	3 HR	BUILDING SEPARATION: FIRE WALL (TYPE I)	NOT APPLICABLE	NOT APPLICABLE	IBC 706.4	3 HR	IBC 706.6 TABLE 716.5	FIRE 3 HR	IBC 706.11 IBC 716.6.1 IBC 717.5.1
[Key 2]	2 HR	BUILDING SEPARATION: FIRE WALL (TYPE II)	NOT APPLICABLE	NOT APPLICABLE	IBC 706.4	90 MIN	IBC 706.6 TABLE 716.5	FIRE 90 MIN	IBC 706.11 IBC 716.6.1 IBC 717.5.1
[Key 3]	2 HR	OCCUPANCY/AREA SEPARATION FIRE BARRIER	NFPA 6.1.14 NFPA 8.2.3.1.2	NFPA 6.1.14 NFPA 8.2.3.1.2	IBC 508.3 IBC 508.3.3	90 MIN	NFPA 8.2.3.2.3.1 (1) IBC 707.6	FIRE 90 MIN	NFPA 8.2.3.2.4.1 IBC 707.10 IBC 717.3.2 IBC 717.5.2
[Key 4]	2 HR	HORIZONTAL EXIT (A& REFUGE AREA) FIRE BARRIER	NFPA 6.1.14 NFPA 8.2.3.1.2	NFPA 6.1.14 NFPA 8.2.3.1.2	IBC 508.3 IBC 508.3.3	90 MIN	NFPA 8.2.3.2.3.1 (1) IBC 707.6	FIRE 90 MIN	NFPA 8.2.3.2.4.1 IBC 707.10 IBC 717.3.2 IBC 717.5.2
[Key 5]	2 HR	VERT. OPG. EXIT ENCLSR(SHAFT) FIRE BARRIER	NFPA 19.3.1.1 NFPA 8.2.5.4	NFPA 18.3.1.1 NFPA 8.2.5.4	IBC 1023.2 IBC 713.4	90 MIN	NFPA 8.2.3.2.3.1 (1) IBC 716.5/722.1	NOT ALLOWED	NFPA 1005.3.4.1 NFPA 1020.12 IBC 707.10 IBC 716.6 IBC 717.5.2
[Key 6]	1 HR	EXIT PASSAGEWAY (HORIZ.) FIRE BARRIER	NFPA 19.2.2.7 NFPA 7.2.6	NFPA 18.2.2.7 NFPA 7.2.6	IBC 1024.1	90 MIN	NFPA 8.2.3.2.3.1 IBC 716.5/722.1	NOT ALLOWED	NFPA 1005.3.4.1 NFPA 1021.5
[Key 7]	1 HR	ATRIUM SEPARATION FIRE BARRIER	NFPA 8.2.5.6	NFPA 8.2.5.6	IBC 404.6	45 MIN	NFPA 8.2.3.2.3.1 IBC 716.5/722.1	FIRE 90 MIN	IBC 716.6 IBC 717.3.2 IBC 716.6.2 IBC 717.5.2
[Key 8]	1 HR	HAZ/INCIDENTAL USE FIRE BARRIER	NFPA 18.3.2.1 NFPA 8.4.1.1	NFPA 18.3.2.1 NFPA 8.4.1.1	IBC 508.2 IBC 707.3.7	45 MIN	NFPA 8.2.3.2.3.1 (2) IBC 707.6 IBC 716.5	FIRE 90 MIN	IBC 716.6 IBC 717.3.2 IBC 716.6.2 IBC 717.5.2
[Key 9]	NR-RESIST	HAZ/INCIDENTAL USE SMOKE PARTITIONS (SPRINKLERED)	NFPA 8.4.1.2	NFPA 8.4.1.2	IBC 508.2 IBC 707.3.7	NR	IBC 710.2.3 IBC 716.5.9.3 IBC 508.4.1.1	SEE NOTE B	
[Key 10]	1 HR / 1/2 HR	SUBDIVIDING SPACES SMOKE BARRIER (1-2 OCCUPANCY) NOT REGD. IN BUSINESS OCCUPANCY	NFPA 19.3.7.1	NFPA 18.3.7.1 NFPA 18.3.7.3	IBC 709.3 IBC 407.4	20 MIN	NFPA 8.3.4.2 (1) IBC 709.5	SMOKE 90 MIN SEE NOTE (A)	NFPA 6.3.5.1 IBC 709.8 IBC 717.5.5 SEE NOTE (C)
[Key 11]	NR	SUITE SEPARATION SMOKE PARTITION	NFPA 18.2.5	NFPA 18.2.5	IBC 1016.2.1	NR	IBC 710.5.2.3 IBC 716.5/9.3	SEE NOTE (B)	
[Key 12]	NR-RESIST SMK	EXIT ACCESS CORRIDORS (1-2) SMOKE PARTITIONS (SPRINKLERED)	NFPA 18.3.6.2	NFPA 18.3.6.2	IBC 407.3 IBC 710.3	NR	IBC 407.3.1	SEE NOTE (D)	
[Key 13]	1 HR	EXIT ACCESS CORRIDORS (1-1) FIRE PARTITION (SPRINKLERED)	NFPA 32.2.3.6.1	NFPA 2.2.3.6.1	IBC 1020.1 IBC 708.1	20 MIN	NFPA 8.2.3.2.3.1x1 IBC 722.1 IBC 716.5	NONE	IBC 716.6 IBC 717.5.4
[Key 14]	1/2 HR	EXIT ACCESS CORRIDORS (1-1 OR 1-2) FIRE PARTITION (EXIST CONDITION) (NON-SPRINKLERED)	NFPA 19.3.6.2.1 IBC -NP	NFPA 18.3.6.2.1 IBC -NP	NOT PERMITTED	20 MIN	IBC 722.1 IBC 716.5	FIRE (1-1) SMOKE (1-2)	IBC 716.6 IBC 717.5.4

**SYMBOLS**



**NOTES**

- (A) DAMPERS ARE NOT REQUIRED IN DUCT PENETRATIONS OF SMOKE BARRIERS WHERE HVAC SYSTEMS ARE FULLY DUCTED (18.3.7.3(C))
- (B) AIR TRANSFER OPENINGS IN SMOKE PARTITIONS SHALL HAVE DAMPERS (NFPA 8.2.4.4.3) (IBC 710.8)
- (C) SMOKE DAMPERS ARE NOT REQUIRED WHERE OPENINGS IN DUCT ARE LIMITED TO A SINGLE SMOKE COMPARTMENT & DUCTS ARE MADE OF STEEL (IBC 717.5.5)
- (D) TRANSFER GRILLES REGARDLESS OF WHETHER THEY ARE PROTECTED ARE NOT ALLOWED IN THESE DOORS OR WALLS (NFPA 19.3.6.4)

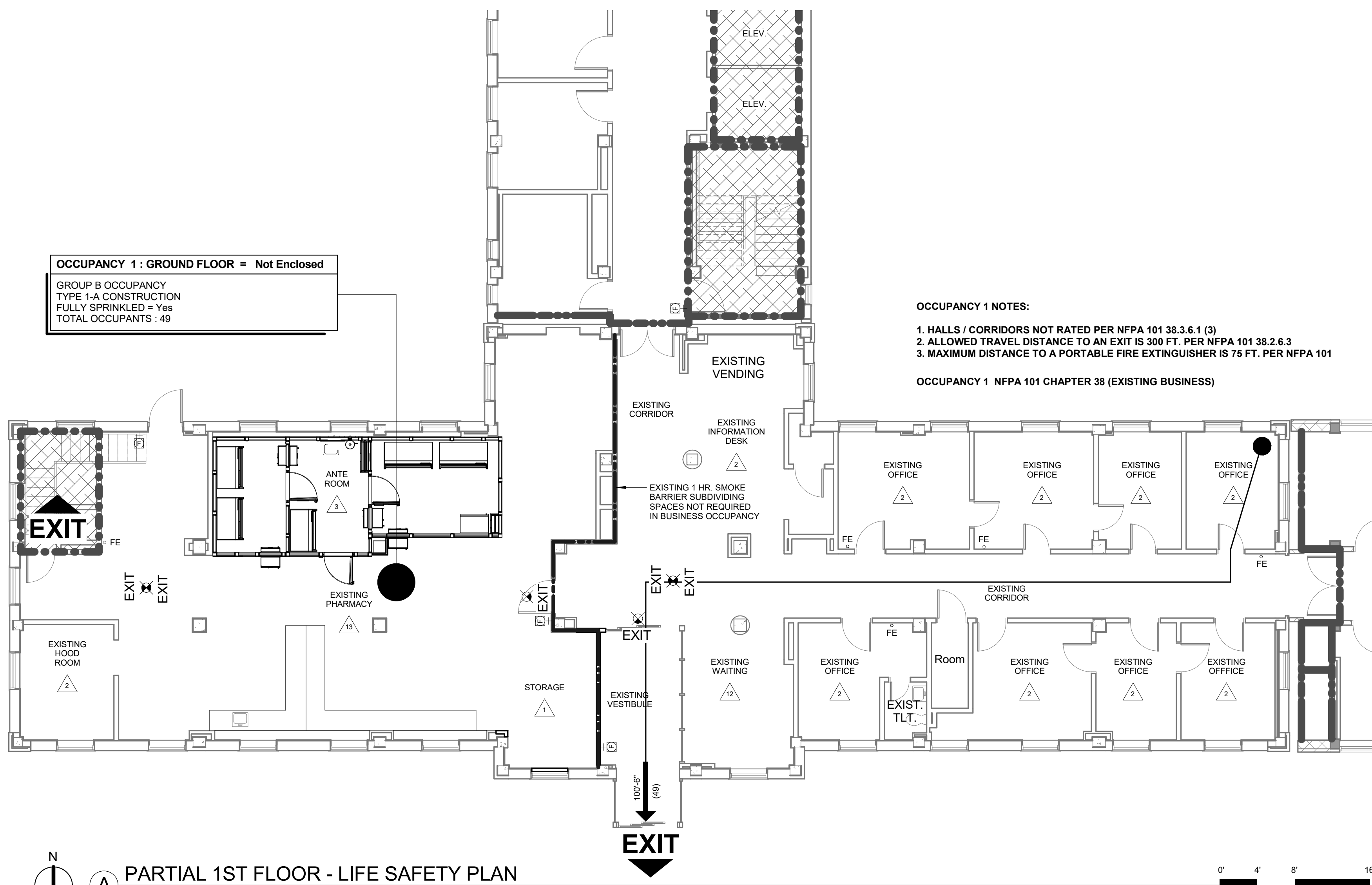
OCCUPANCY 1: GROUND FLOOR = Not Enclosed

GROUP B OCCUPANCY  
TYPE I-A CONSTRUCTION  
FULLY SPRINKLERED = Yes  
TOTAL OCCUPANTS: 49

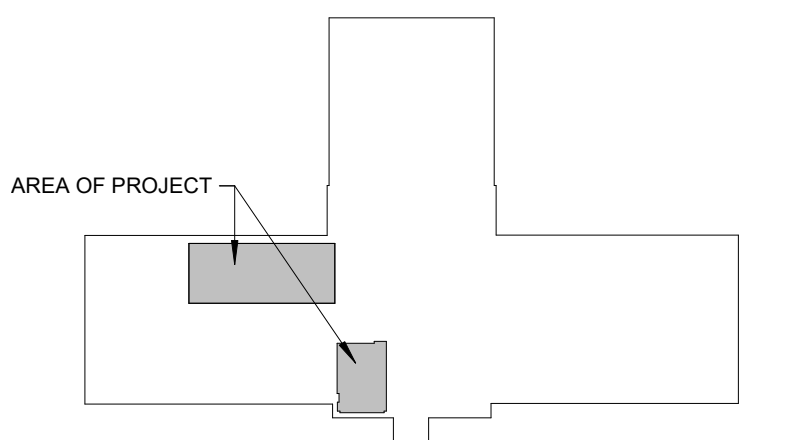
OCCUPANCY 1 NOTES:

- 1. HALLS / CORRIDORS NOT RATED PER NFPA 101 38.3.6.1 (3)
- 2. ALLOWED TRAVEL DISTANCE TO AN EXIT IS 300 FT. PER NFPA 101 38.2.6.3
- 3. MAXIMUM DISTANCE TO A PORTABLE FIRE EXTINGUISHER IS 75 FT. PER NFPA 101

OCCUPANCY 1 NFPA 101 CHAPTER 38 (EXISTING BUSINESS)



**PARTIAL 1ST FLOOR - LIFE SAFETY PLAN**  
1/8" = 1'-0"



**KEY PLAN - BLDG. 3 1ST FLOOR**

No.	Description	Date
Revisions:		Date

**CONSULTANTS:**  
-

**ARCHITECT/ENGINEERS:**  
  
 117 PIERCE ST., SUITE 110 SIOUX CITY, IOWA  
 142 N. MOSELY ST. WICHITA, KANSAS

Drawing Title  
**CODE PLAN**

Project Title  
**CONSTRUCT PHARMACY STERILE SOLUTIONS ROOMS B3**

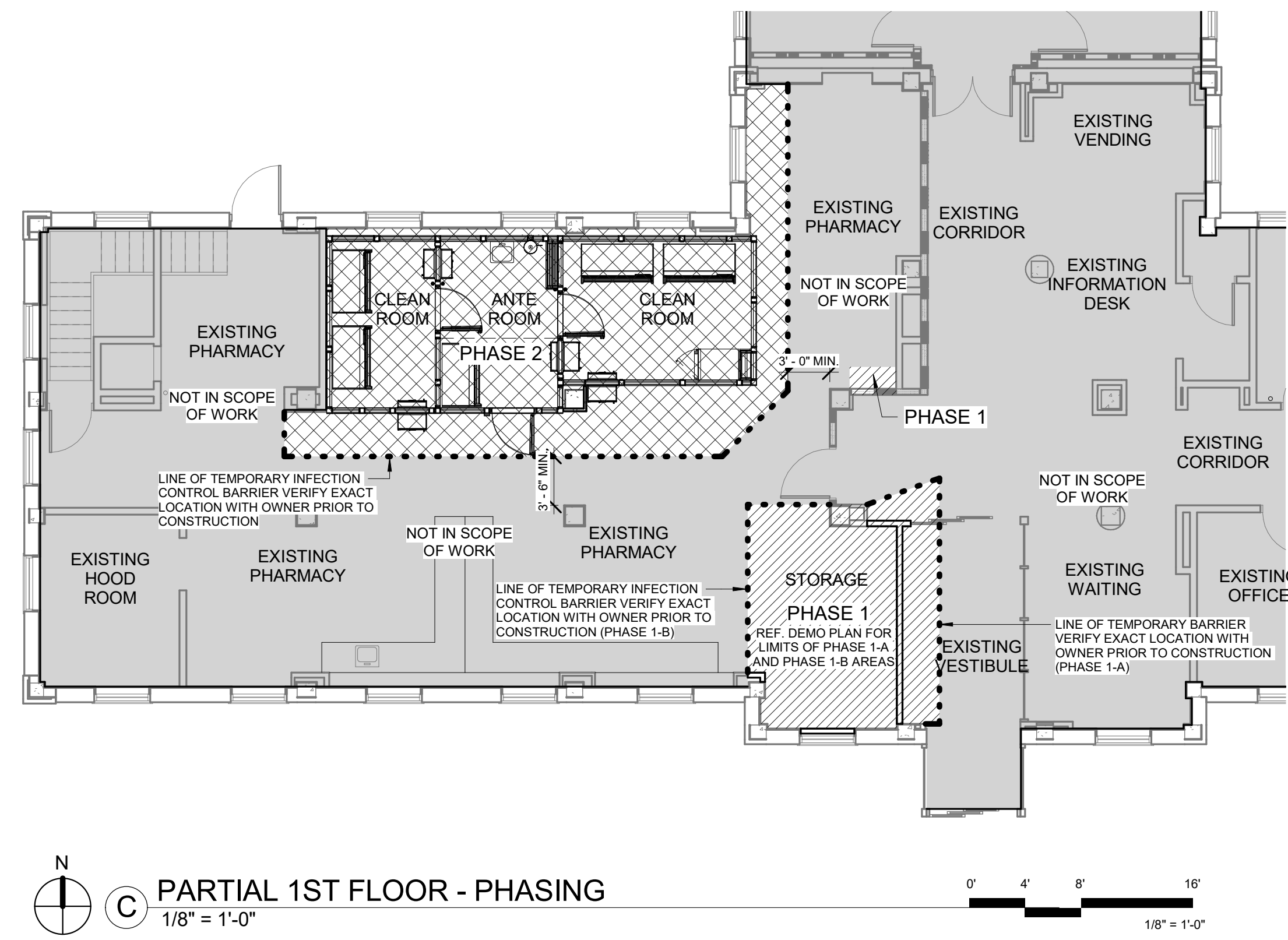
Location  
Robert J. Dole VA Medical Center WICHITA, KANSAS

Date Issue Date  
Checked  
Author

Project Number  
589A7-17-181

Drawing Number  
**CS1.1**

Office of Construction and Facilities Management  
Department of Veterans Affairs



PHASING LEGEND	PHASING IS ARCHITECTS CONCEPT. ACTUAL FIELD CONDITIONS AND ELEMENTS UNKNOWN AT THIS TIME MAY HAVE AFFECTS TO THE CONCEPT. G.C. TO VERIFY ALL PHASING WITH VA STAFF PRIOR TO ANY WORK BEING DONE.
<b>PHASE 1</b> [Dotted Hatching]	<b>PHASE 1-A</b> ● INSTALL TEMPORARY PARTITION G.C. TO DETERMINE ACCESS POINTS TO WORK AREA - F VERIFY LOCATION WITH VA STAFF. ● DEMO AREA LABELED PHASE 1-A. REF. DEMO AND MEP PLANS FOR ADDITIONAL NOTES AND DETAILS. ● CONSTRUCT NEW 1-HR. PARTITION WALL AND FINISH VESTIBULE SIDE - REF. FINISH PLAN FOR FINISHES. EXTEND EXISTING GYP. BD. CLG. OF VESTIBULE TO NEW PARTITION WALL AND FINISH PER SCHEDULE - PATCH AND REPAIR FLOORING AS REQUIRED IN EXISTING VESTIBULE AREA (MATCH EXISTING). REF. MEP PLANS FOR ADDITIONAL NOTES AND DETAILS. ● REMOVE TEMPORARY PARTITION AND APPLY FINISHES THAT PARTITION WOULD NOT ALLOW. - AREA SHOULD THEN BE CLEANED AND PUNCHED AND READY TO TURN OVER TO VA STAFF.
<b>PHASE 1-A</b> [Solid Hatching] SEE DEMO PLANS	<b>PHASE 1-B</b> ● INSTALL TEMPORARY INFECTION CONTROL PARTITION G.C. TO DETERMINE ACCESS POINTS TO WORK AREA - F VERIFY LOCATION WITH VA STAFF. ● DEMO AREA LABELED PHASE 1-B. REF. DEMO AND MEP PLANS FOR ADDITIONAL NOTES AND DETAILS. ● COMPLETE REMAINDER OF PHASE 1 WORK - REF. PLANS
<b>PHASE 1-B</b> [Dashed Hatching] SEE DEMO PLANS	<b>PHASE 2</b> ● COMPLETE WORK FOR REMAINDER OF PROJECT - REFER TO PLANS FOR DETAILS AND NOTES.
<b>PHASE 2</b> [Cross-Hatching]	

### GENERAL DEMOLITION NOTES:

A. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO WORK BEGINNING. THE CONTRACTOR IS RESPONSIBLE FOR INFORMING THE ARCHITECT OF ANY CONDITIONS THAT DIFFER FROM THE INFORMATION INDICATED IN THE DRAWINGS.

B. PROTECT ALL EXISTING BUILDING COMPONENTS WHICH ARE TO REMAIN. REPAIR ANY DAMAGED AREAS AS REQUIRED TO RETURN THEM TO THEIR ORIGINAL CONDITION.

C. VERIFY EXTENT OF DEMOLITION WORK WITH INFORMATION SHOWN IN THE DRAWINGS, AND WORK THAT IS NOT SHOWN AND MAY BE REQUIRED TO COMPLETE THE INTENDED WORK.

D. ALL WORK SHALL COMPLY WITH REQUIRED LOCAL CODES. CONTRACTOR IS RESPONSIBLE FOR OBTAINING REQUIRED PERMITS AND INSPECTIONS FOR ALL WORK ASSOCIATED WITH THIS CONTRACT.

E. CONTRACTOR SHALL REPAIR ALL DISTURBED AREAS AS REQUIRED TO MATCH SURROUNDING EXISTING FINISHES NOT DISTURBED.

F. TYPES OF FLOOR, WALL, AND CEILING FINISHES INDICATED FOR REMOVAL BY DEMOLITION NOTES IS FOR GENERAL INFORMATION ONLY FROM INFORMATION OBTAINED FROM EXISTING PLANS AND OBSERVATIONS. CONTRACTOR SHALL FIELD VERIFY MATERIAL TYPES ON SITE PRIOR TO BID AND INCLUDE NECESSARY WORK IN HIS BID.

G. ALL APPLIANCES, FURNITURE, AND EQUIPMENT TO REMAIN THE PROPERTY OF THE OWNER - CONTRACTOR TO COORDINATE REMOVAL, RELOCATION, STORAGE OF EQUIPMENT FROM DEMO AREAS WITH OWNERS.

H. PATCH FLOOR AT REMOVED WALLS AND CASEWORK PREPARE FLOOR TO RECEIVE NEW FLOORING AS REQUIRED.

I. ALL HOLES IN EXISTING SLAB LEFT FROM REMOVAL OF FIXTURES TO RECEIVE INFILL PER STRUCTURAL DETAIL.

J. REMOVE ALL CORNER GUARDS CAREFULLY AND REUSE IF POSSIBLE OR RETURN TO OWNER.

K. ELEMENTS INDICATED WITH A DASHED LINE ARE TO BE DEMOLISHED AND DISPOSED OF AS A PART OF THIS PROJECT UNLESS NOTED OTHERWISE.

L. IN EXISTING AREAS, RENOVATION AND DEMOLITION WORK SHALL BE ACCOMPLISHED WITH MINIMAL DISRUPTION TO OPERATIONS. IF REQUIRED, THE OWNER RESERVES THE RIGHT TO TEMPORARILY STOP WORK OF SPECIFIC CONSTRUCTION OPERATIONS SHOULD THE OWNER IDENTIFY AN EMERGENCY OR DANGER EXISTS TO THE WELFARE OF THE OCCUPANTS ON ACCOUNT OF SUCH WORK OR OPERATIONS.

M. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL MATERIAL IN A LEGAL MANNER NOT SCHEDULED FOR REUSE UNDER THIS PROJECT.

N. IN ALL WALLS AND CEILINGS THAT ARE TO BE REMOVED THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISCONNECTING AT SOURCE AND REMOVING OR CAPPING ELECTRICAL, PLUMBING, GAS LINES AND MECHANICAL DUCTWORK THAT IS DISCLOSED AND NOT SCHEDULED FOR REUSE. CONTRACTOR SHALL REROUTE AND CONTINUE ANY SYSTEM THAT MUST BE RETAINED FOR NEW CONSTRUCTION.

O. ALL ELECTRICAL CIRCUITS FOR EQUIPMENT THAT IS TO BE REMOVED SHALL BE DISCONNECTED AT SOURCE AND REMOVED.

P. ALL PIPING GAS, WATER SUPPLY, VENT, DRAIN LINES, ETC. SUPPLYING EQUIPMENT THAT IS TO BE REMOVED SHALL BE DISCONNECTED, REMOVED AND CAPPED ABOVE CEILING OR BELOW FLOOR. CONTRACTOR SHALL REROUTE AS NECESSARY, TO BE BEHIND NEW CONSTRUCTION. PATCH FLOOR BACK PRIOR TO TOPPING.

Q. ALL MED GASES AND PLUMBING TO BE REMOVED AT WALLS SCHEDULED FOR DEMOLITION.

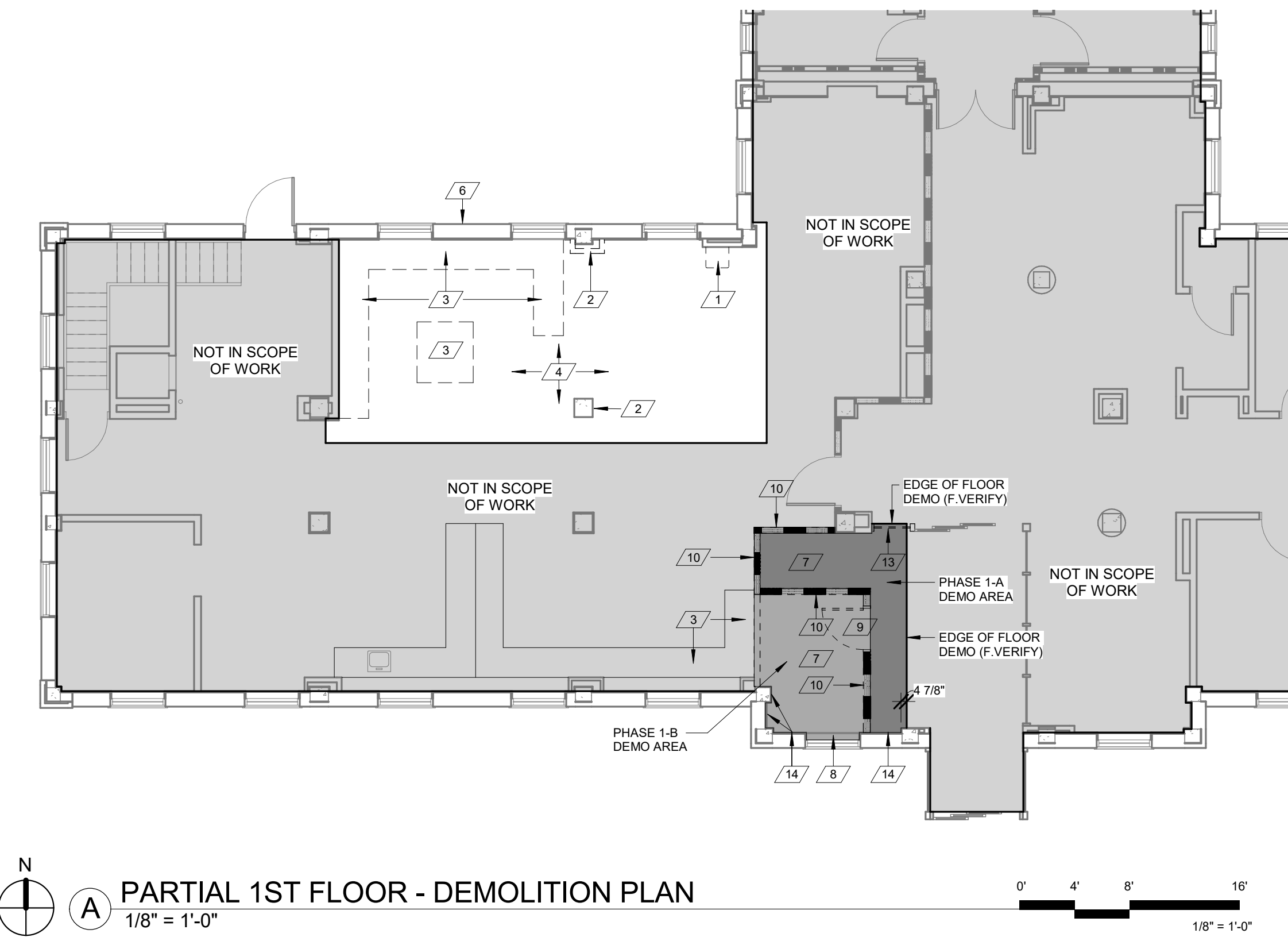
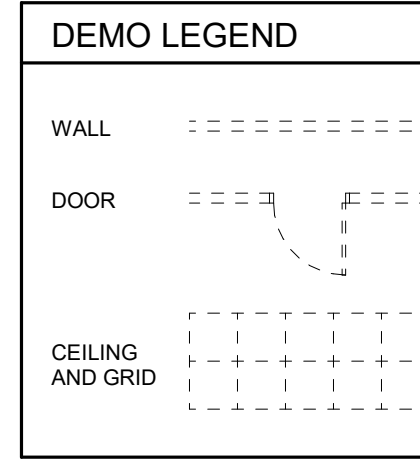
R. REMOVE ALL PLUMBING FIXTURES AND EQUIPMENT WITHIN ROOMS SCHEDULED TO BE DEMOLISHED. SEE MEP PIPING DRAWINGS.

S. RETURN ALL SIGNAGE AFFECTED BY CONSTRUCTION TO OWNER.

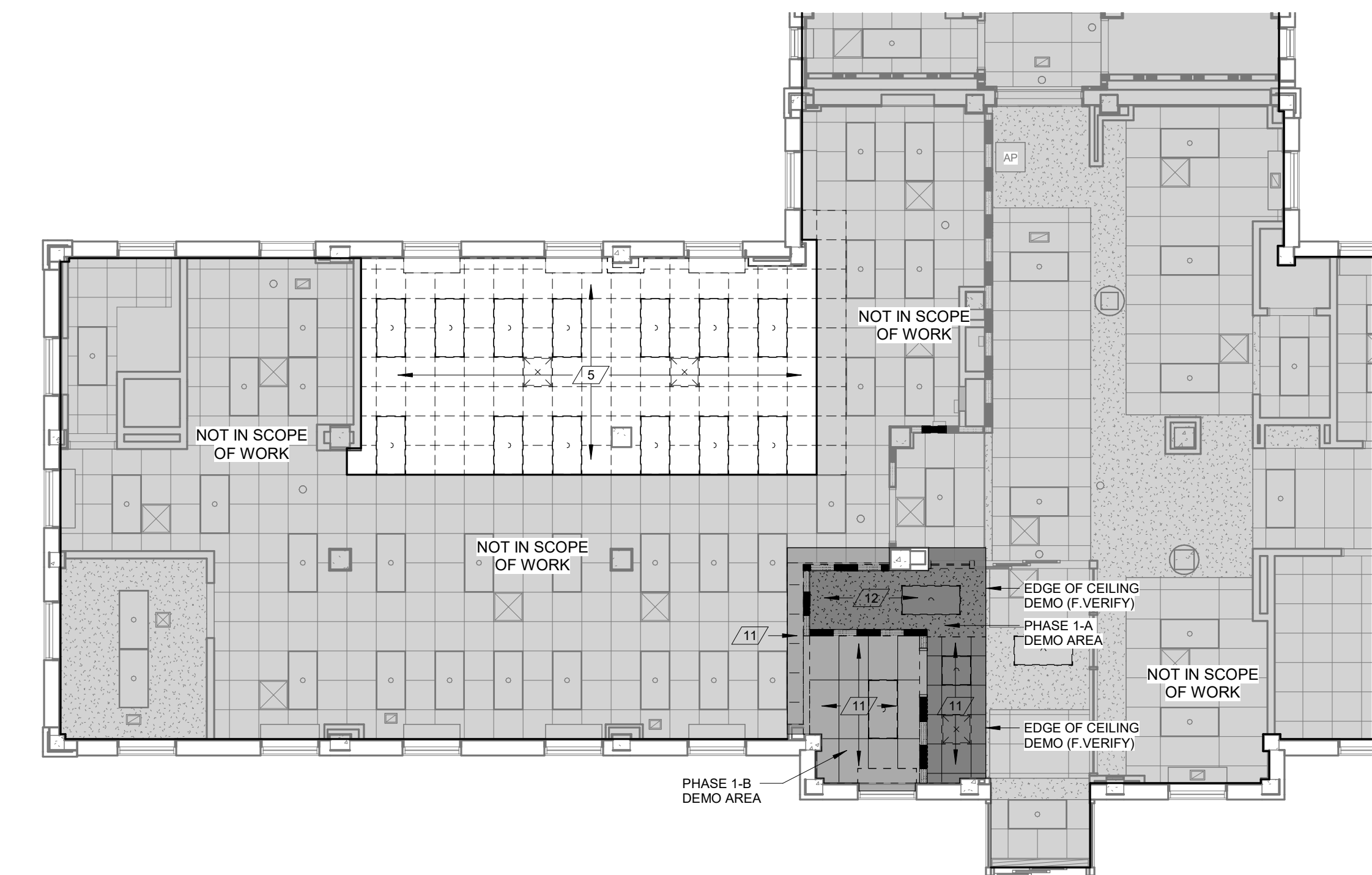
T. CONTRACTOR TO COORDINATE INFECTIOUS CONTROL REQUIREMENTS WITH OWNER PRIOR TO ANY CONSTRUCTION.

### DEMO SCHEDULE

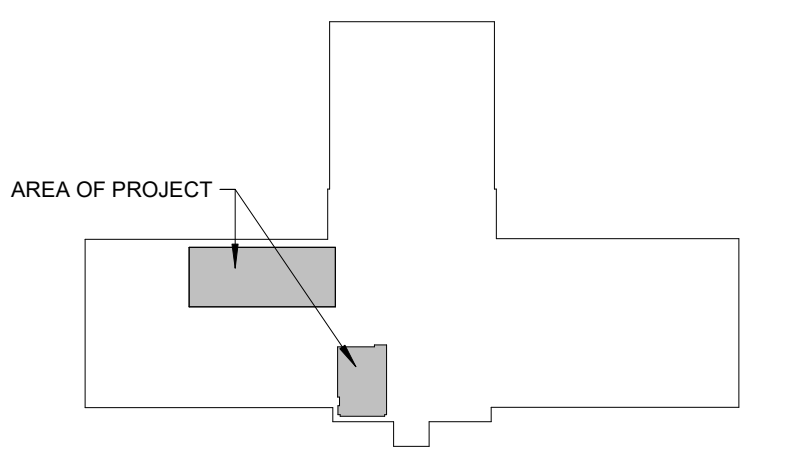
1	EXISTING SINK, TOWEL AND SOAP DISPENSER TO BE REMOVED - REFER TO GENERAL DEMOLITION NOTES
2	EXISTING FURRING AND ALL OF ITS COMPONENTS TO BE REMOVED AROUND EXISTING CONCRETE COLUMN. SALVAGE EXISTING CORNER GUARDS FOR POSSIBLE REUSE.
3	EXISTING SHELVING, MOBILE CARTS ETC. TO BE RELOCATED (BY HOSPITAL) PRIOR TO WORK OF NEW CONSTRUCTION
4	EXISTING VCT FLOORING TO BE REMOVED VERIFY EXTENTS WITH LATEST MFGS. CLEAN ROOM DRAWINGS - PATCH AND REPAIR CONCRETE SLAB AS REQUIRED TO RECEIVE NEW FLOORING.
5	EXISTING CEILING GRID AND TILE TO BE REMOVED TO ALLOW FOR INSTALLATION OF NEW CEILING AND TEMPORARY PARTITION. SALVAGE TILE AND REINSTALL AS REQUIRED (ONCE NEW CLEANROOM UNIT IS INSTALLED. REFER TO MEP DEMO PLANS FOR ADDITIONAL COMMENTS AND NOTES.
6	REMOVE EXISTING PORTION OF WALL AS REQUIRED TO ALLOW FOR NEW EXHAUST DUCT - VERIFY SIZE AND LOCATION WITH MECHANICAL PLANS.
7	EXISTING VCT FLOORING TO BE REMOVED - F VERIFY EXTENTS
8	REMOVE EXISTING WOOD SILL, TRIM, BUNDS AND METAL MESH AS REQUIRED TO ALLOW FOR NEW WINDOW INFILL. NOTE EXISTING WINDOW TO REMAIN
9	REMOVE EXISTING DOOR AND FRAME
10	REMOVE EXISTING WALL AND ALL OF ITS COMPONENTS TO BE REMOVED. PATCH AND REPAIR ABUTTING WALL SURFACE AS REQUIRED AND PREPARE FOR NEW FINISHES.
11	EXISTING CEILING GRID AND TILE TO BE REMOVED - REFERENCE MEP DEMO PLANS FOR ADDITIONAL NOTES AND DETAILS
12	EXISTING PORTION OF GYP. BD. CEILING TO BE REMOVED - (F VERIFY EXTENTS) - REFERENCE MEP DEMO PLANS FOR ADDITIONAL NOTES AND DETAILS.
13	REMOVE EXISTING PORTION OF SIDE LIGHT FROM EXISTING SLIDING DOOR.
14	REMOVE EXISTING WALL PROTECTION AT WALL AND PREPARE FOR NEW PAINT FINISH.



**A PARTIAL 1ST FLOOR - DEMOLITION PLAN**  
1/8" = 1'-0"



**B PARTIAL 1ST FLOOR - CEILING DEMOLITION PLAN**  
1/8" = 1'-0"



**KEY PLAN - BLDG. 3 1ST FLOOR**

No.	Description	Date

**CONSULTANTS:**

--

ARCHITECT/ENGINEERS:

**HFG**  
ARCHITECTURE  
117 PIERCE ST, SUITE 110  
SIOUX CITY, IOWA

**PEC**  
142 N. MOSELY ST  
WICHITA, KANSAS

Drawing Title

**PHASING / DEMOLITION PLANS**

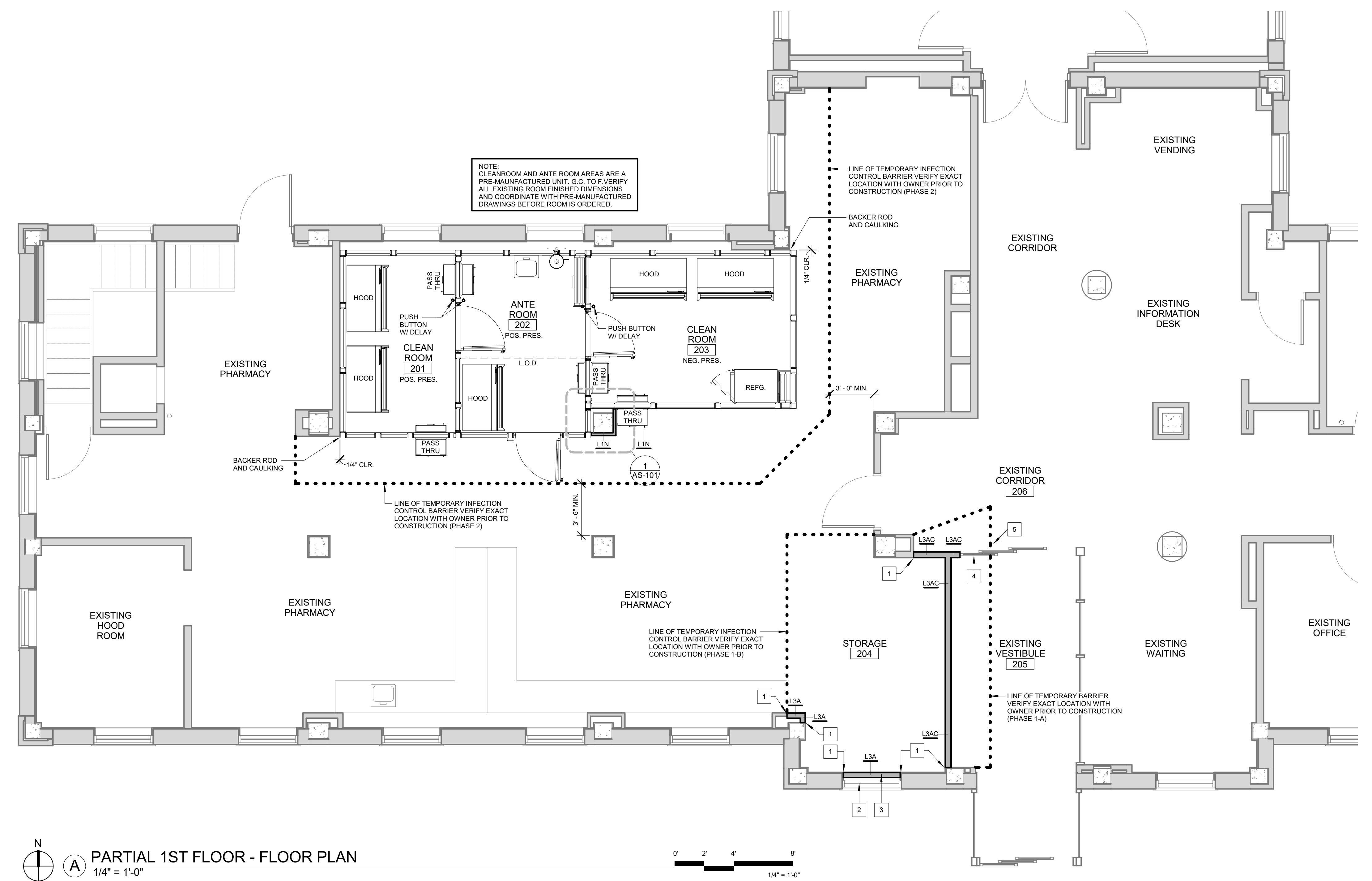
Project Title <b>CONSTRUCT PHARMACY STERILE SOLUTIONS ROOMS B3</b>			Project Number 589A7-17-181		
Location Robert J. Dole VA Medical Center WICHITA, KANSAS			Drawing Number <b>AD-101</b>		
Date	Issue Date	Checked	Checker	Drawn	Author

Office of Construction and Facilities Management

Department of Veterans Affairs

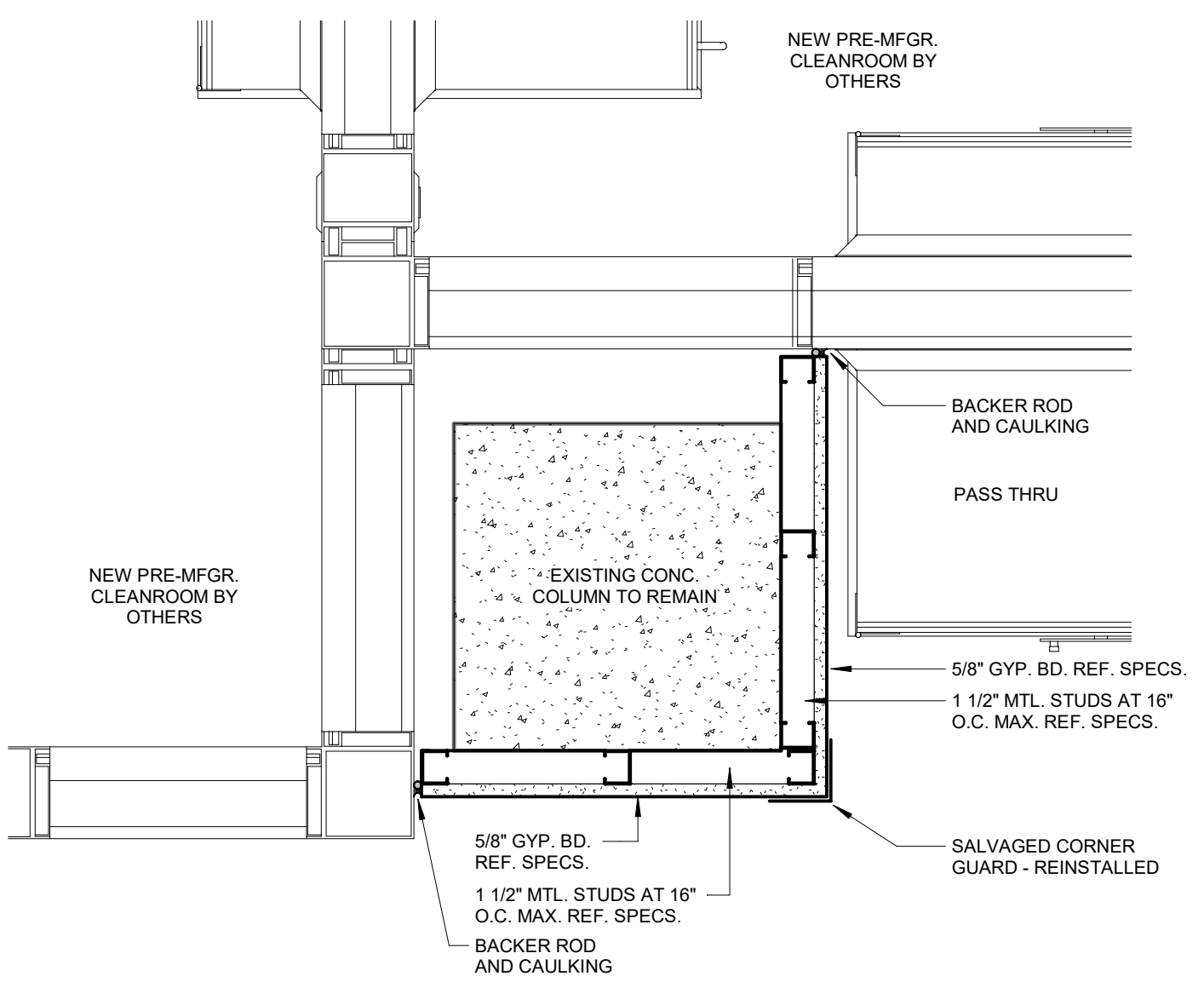
three inches = one foot  
 one and one half inches = one foot  
 one inch = one foot  
 three quarters inch = one foot  
 one half inch = one foot  
 one quarter inch = one foot  
 one eighth inch = one foot  
 one eighth inch = one foot

LEGEND FOR WALL TAGS	
<b>WALL MATERIALS</b>	
S - STRUCTURAL METAL STUDS, 20 ga. OR HEAVIER, (REF. STRUCT.)	
L - LIGHT GAUGE METAL STUDS, 25 ga. (REF. SPECS.)	
W - DIMENSIONAL WOOD STUDS	
B - CONCRETE MASONRY UNIT, STANDARD WEIGHTS FOR EXTERIOR & INTERIOR, UNLESS NOTED OTHERWISE (REF. STRUCT.)	
C - CONCRETE, PRECAST OR POURED IN PLACE, (REF. STRUCT.)	
O - COMPOSITE OR OTHER WALL TYPES, (REF. SECTIONS & DETAILS)	
<b>WALL WIDTHS</b>	
0 - 7/8" HAT CHANNEL	
1 - 1 5/8" HAT CHANNEL/STUDS	
2 - 2 1/2" SHAFT WALL FRAMING	
3 - 3 5/8" METAL STUD FRAMING 3 1/2" WOOD (2x4)	
4 - 4" METAL STUD FRAMING	
6 - 6" METAL STUD FRAMING	
7 - 6" SHAFT WALL FRAMING	
8 - 8" METAL STUD FRAMING	
<b>WALL INSULATION</b>	
N - NONE	
A - ACCOUSTICAL	
T - THERMAL	
<b>WALL HEIGHT</b>	
	SHADED WALLS INDICATES WALLS THAT EXTEND TO DECK
<b>NOTES:</b>	
WALLS TO RECEIVE GYPSUM BOARD PRODUCT ON BOTH FACES OF METAL STUD AND WALLS THAT REQUIRE ACCOUSTICAL SOUND BATT INSULATION SHALL BE CONSTRUCTED TO MEET A MINIMUM 45 STC UNLESS OTHERWISE NOTED.	
ALL STUD FRAMING TO BE 16" O.C., TYP.	
PROVIDE CEMENTIOUS BACKER BOARD AT ALL SHOWER & WET AREAS AND AS BACKER FOR CERAMIC WALL TILE, TOILET & SINK AREAS TO RECEIVE MOISTURE-RESISTANT GYP BOARD.	
PROVIDE ACCOUSTICAL SEALANT AT TOP & BOTTOM AND ALL PENETRATIONS OF WALLS WITH SOUND BATT.	
PROVIDE SEALANT AT TOP & BOTTOM AND ALL PENETRATIONS OF SMOKE PARTITION WALLS AS REQUIRED BY CODE.	
PROVIDE ALL NEW WALLS THAT GO TO STRUCTURE W/ 1 1/2" MTL. DEFLECTION TRACK - REF. STRUCT.	
PROVIDE SEALANT AT TOP & BOTTOM AND ALL PENETRATIONS ON ONE SIDE OF SMOKE PARTITION WALLS AS REQUIRED BY CODE - REF. SPECS	
BRACE ALL STUD WALLS TO STRUCTURE ABOVE @ 4'-0" O.C. OR EXTEND ALL STUDS TO DECK ABOVE, TYP.	
FIRE TAPES AND/OR FILL VOIDS AT TOP OF WALL - FIRE RATED WALLS AS REQUIRED BY CODE - REF. SPEC.	
INSTALL 5/8" TYPE X GYP BD ON ONE SIDE OF FURRING, TYP. INSTALL 5/8" TYPE X GYP BD ON BOTH SIDES OF STUD FRAMING, TYP. UNLESS NOTED OTHERWISE. EXTEND GYP BD TO 6" ABOVE CEILING UNLESS REQUIRED OTHERWISE. PROVIDE ACCOUSTICAL SEALANT AT TOP AND BOTTOM OF ALL PENETRATIONS OF WALL WITH SOUND BATT.	
INSTALL FIRE RATED SEAL/CLOSURE @ ALL OPENINGS, GAPS AND TOP & BOTTOM OF FRAMING AS SPECIFIED.	

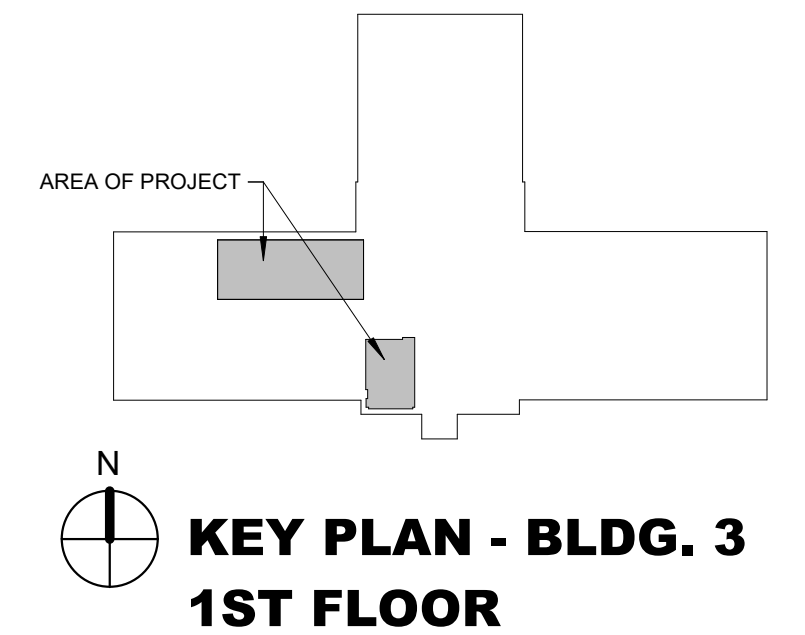


**1/4" = 1'-0"**

PLAN NOTES - FLOOR PLAN	
1	ALIGN FACE OF NEW FINISH WITH EXISTING FINISH.
2	APPLY BLACK-OUT FILM TO INSIDE FACE OF EXISTING WINDOW BEFORE EXISTING WINDOW OPENING IS INFILLED.
3	INFILL EXISTING WINDOW AS REQUIRED. MATCH EXISTING CONSTRUCTION. PREPARE FOR NEW FINISHES.
4	G.C. TO PROTECT EXISTING SLIDING DOOR DURING CONSTRUCTION.
5	G.C. TO CONSTRUCT TEMPORARY PARTITION SO AS NOT TO INTERFERE WITH SLIDING DOOR FUNCTION.



**1/2" = 1'-0"**



No.	Description	Date

**CONSULTANTS:**

-

**ARCHITECT/ENGINEERS:**

117 PIERCE ST, SUITE 110  
 SIOUX CITY, IOWA

142 N. MOSELY ST  
 WICHITA, KANSAS

Drawing Title

**FLOOR PLAN - DIMENSIONS**

Project Title		Project Number	
CONSTRUCT PHARMACY STERILE SOLUTIONS ROOMS B3		589A7-17-181	
Location		Drawing Number	
Robert J. Dole VA Medical Center WICHITA, KANSAS		AS-101	
Date	Checked	Drawn	
Issue Date	Checker	Author	

Office of Construction and Facilities Management

Department of Veterans Affairs

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

### FINISH SCHEDULE NOTES

#### GENERAL NOTES

A. PREMANUFACTURED CLEAN ROOM UNIT PROVIDES CEILING AND WALL FINISH.  
 B. ALL FLOORING TRANSITIONS OCCUR AT THE CENTERLINE OF THE DOOR. FLOOR COVERINGS SHALL BE BUILT UP OR CUT DOWN TO EXISTING SLAB TO HAVE MINIMAL HEIGHT DIFFERENCES AT TRANSITIONS.  
 C. ALL REMODEL AREAS PREP FLOOR PER MANUFACTURER'S REQUIREMENTS. REMOVE ANY ADHESIVE, LOOSE TOPPING OR CONCRETE, OIL OR GREASE.  
 D. REFER TO NOTES ON PLAN FOR ADDITIONAL FINISHES NOT REFLECTED IN THE FINISH SCHEDULE.

MANUFACTURER'S TRADE NAMES AND NUMBERS USED HEREIN ARE ONLY TO IDENTIFY COLORS, FINISHES, TEXTURES AND PATTERNS. PRODUCTS OF OTHER MANUFACTURER'S EQUIVALENT TO COLORS, FINISHES, TEXTURES AND PATTERNS OF MANUFACTURER'S LISTED THAT MEET REQUIREMENTS OF TECHNICAL SPECIFICATIONS WILL BE ACCEPTABLE UPON APPROVAL IN WRITING BY CONTRACTING OFFICER FOR FINISH REQUIREMENTS.  
 THIS NOTE APPLIES TO ALL SUCH INSTANCES IN THE DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.

#### WALL PROTECTION & FINISH LEGEND

CORNER GUARD [Symbol]

WALL PROTECTION (WP-X) [Symbol]

LINE OF TEMPORARY BARRIER CONTROL BARRIER VERIFY EXACT LOCATION WITH OWNER PRIOR TO CONSTRUCTION (PHASE 1-A) [Symbol]

LINE OF DEMARCATION (L.O.D.) RES-2B STRIPES ON FLOOR 2" WIDE x 4" LONG WITH 2" WIDE x 4" LONG RES-2A SPACES [Symbol]

KEY: CG-XX [Symbol] REFERS TO COLOR, REF CSK

[Symbol] REFERS TO HEIGHT, REF CSK

#### GENERAL NOTES

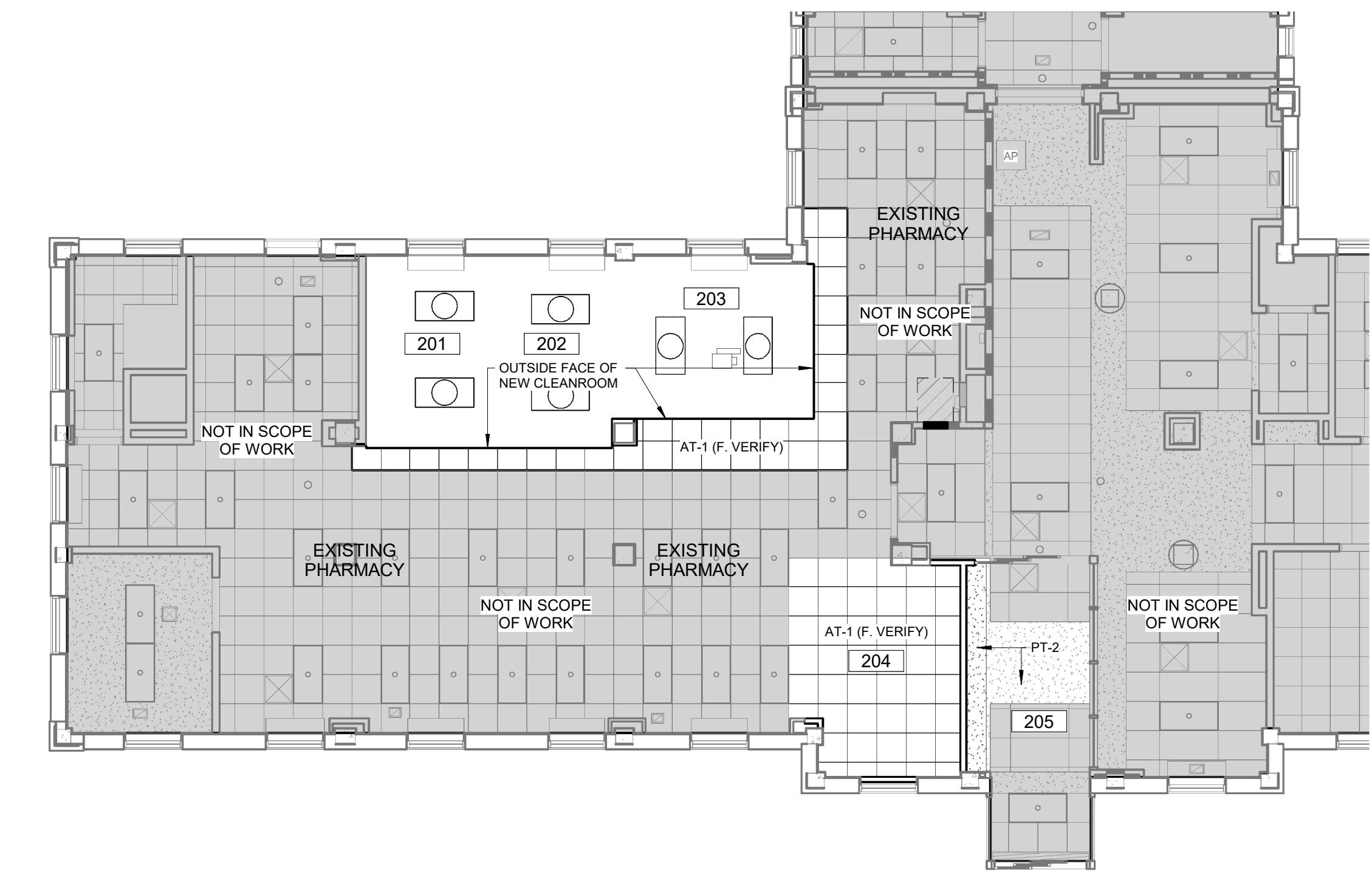
1. INSTALL ALL WALL CORNER GUARDS, END GUARDS, & ANGLE GUARDS ABOVE FLOOR BASE.  
 2. INSTALL ALL RIGID VINYL SHEET ABOVE FLOOR BASE.  
 3. REFER TO COLOR SCHEDULE KEY AND SPECIFICATIONS MANUAL FOR WALL PROTECTION MANUFACTURER, SIZE & COLOR.

#### COLOR SCHEDULE KEY

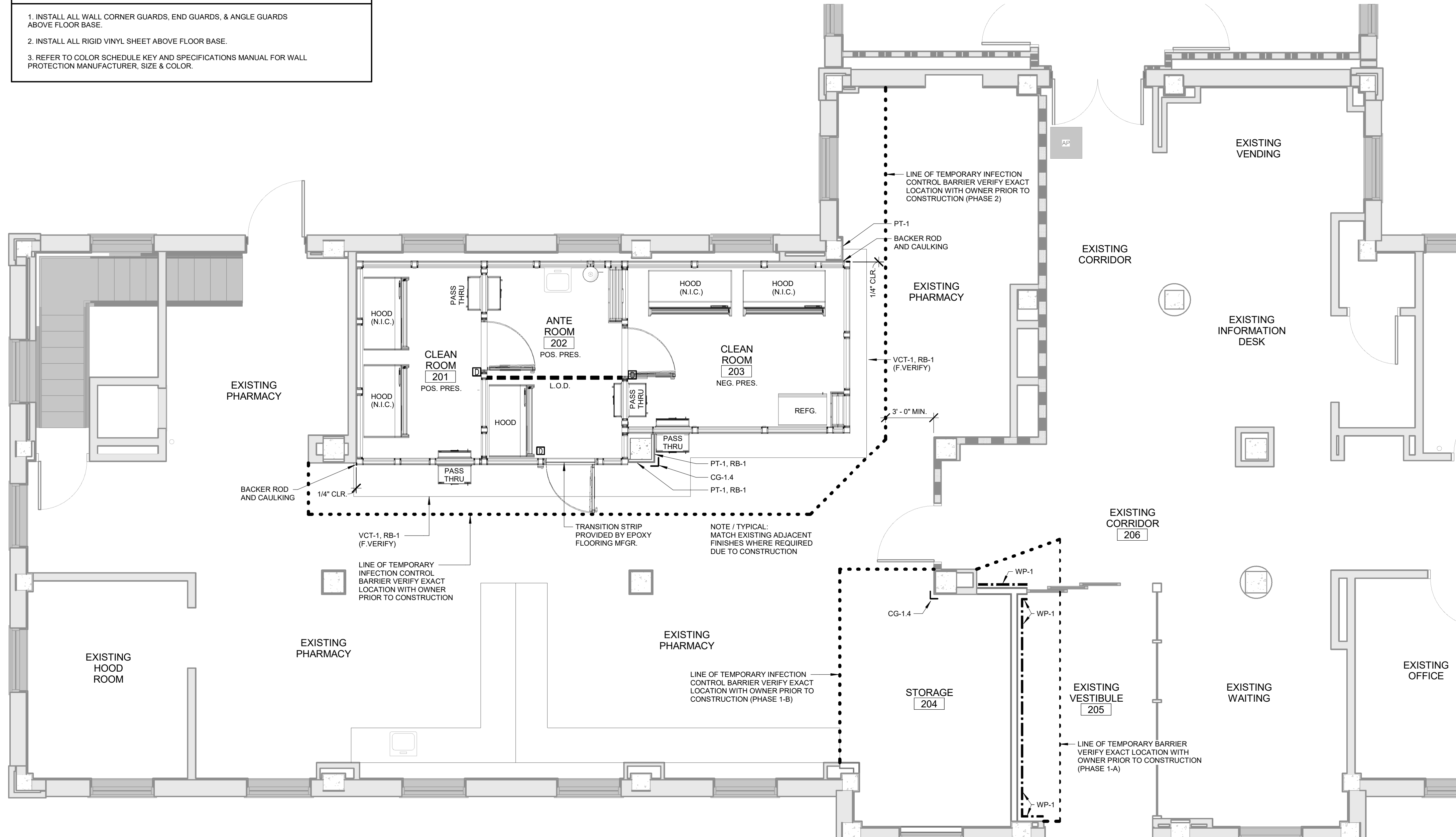
CODE	DESCRIPTION	MANUFACTURER	STYLE NAME	STYLE / COLOR	SIZE / TYPE	NOTES
AT-1	ACOUSTICAL CEILING TILE	MATCH EXIST'G ADJACENT	MATCH EXIST'G ADJACENT	MATCH EXIST'G ADJACENT	MATCH EXIST'G ADJACENT	
CG-1	CORNER GUARD	INPRO	156 SERIES CORNER GUARD	SOLID COLOR TO MATCH EXISTING	3" WING, 4" HIGH	
PT-1	PAINT	MATCH EXIST'G ADJACENT	MATCH EXIST'G ADJACENT	MATCH EXIST'G ADJACENT	MATCH EXIST'G ADJACENT	MATCH EXIST'G ADJACENT SHEEN
PT-2	PAINT	SHERWIN WILLIAMS	CEILING WHITE	SW7007	FLAT	MATCH EXIST'G ADJACENT
RB-1	RESILIENT BASE	MATCH EXIST'G ADJACENT	MATCH EXIST'G ADJACENT	MATCH EXIST'G ADJACENT	MATCH EXIST'G ADJACENT	MATCH EXIST'G ADJACENT
RES-2A	RESINOUS EPOXY FLOOR - L.O.D.	STONHARD	STONRES STR	RAIN		
RES-2B	RESINOUS EPOXY FLOOR - L.O.D.	STONHARD	STONRES STR	COPPER RIDGE	2" WIDE, 4" LONG STRIPES WITH 4" LONG GAPS	LINE OF DEMARCATION
VCT-1	VINYL COMPOSITION TILE	ARMSTRONG	STANDARD EXCELON MULTI COLOR	CARNIVAL_WHITE 52500	12"X12"X1/8"	
WP-1	WALL PROTECTION	INPRO	ELEMENTS PATTERN WALL PROTECTION	BE019 BOULDER	3/16" THICK, 4'-0" WITH 3/8"x3/8" TOP CAP	ALL SEAMS CAULKED

#### FINISH SCHEDULE

RM #	ROOM NAME	FLOOR	BASE	Wall Finish (N)	Wall Finish (E)	Wall Finish (S)	Wall Finish (W)	CEILING TYPE	CEILING COLOR	NOTES
201	CLEAN ROOM	RES-2	RES-2	-	-	-	-	-	-	COORDINATE FLASH COVE HEIGHT WITH WINDOW FRAME
202	ANTE ROOM	RES-2	RES-2	-	-	-	-	-	-	COORDINATE FLASH COVE HEIGHT WITH WINDOW FRAME
203	CLEAN ROOM	RES-2	RES-2	-	-	-	-	-	-	COORDINATE FLASH COVE HEIGHT WITH WINDOW FRAME
204	STORAGE	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	AT-1	PT-2	
205	EXISTING VESTIBULE	EXTG	RB-1	PT-1	PT-1	PT-1	PT-1	WP-1	PT-2	
206	EXISTING CORRIDOR	EXTG	RB-1	PT-1	PT-1	PT-1	PT-1	WP-1	PT-2	
EX	EXISTING PHARMACY	VCT-1	RB-1	-	-	-	-	PT-1	AT-1	PATCH VCT AT NEW CONSTRUCTION



**B PARTIAL 1ST FLOOR - REFLECTED CEILING PLAN**  
 1/8" = 1'-0"



**A PARTIAL 1ST FLOOR - FINISH PLAN**  
 1/4" = 1'-0"

No.	Description	Date

**CONSULTANTS:**

-

ARCHITECT/ENGINEERS:

**m::HFG** **PEC**

**ARCHITECTURE**

117 PIERCE ST, SUITE 110  
 SIOUX CITY, IOWA

142 N. MOSELY ST  
 WICHITA, KANSAS

Drawing Title

**FINISH FLOOR PLAN**

Project Title		Project Number	
CONSTRUCT PHARMACY STERILE SOLUTIONS ROOMS B3		589A7-17-181	
Location		Drawing Number	
Robert J. Dole VA Medical Center WICHITA, KANSAS		AI-101	
Date	Checked	Drawn	
Issue Date	Checker	Author	

Office of Construction and Facilities Management

Department of Veterans Affairs

**HATCH LEGEND**

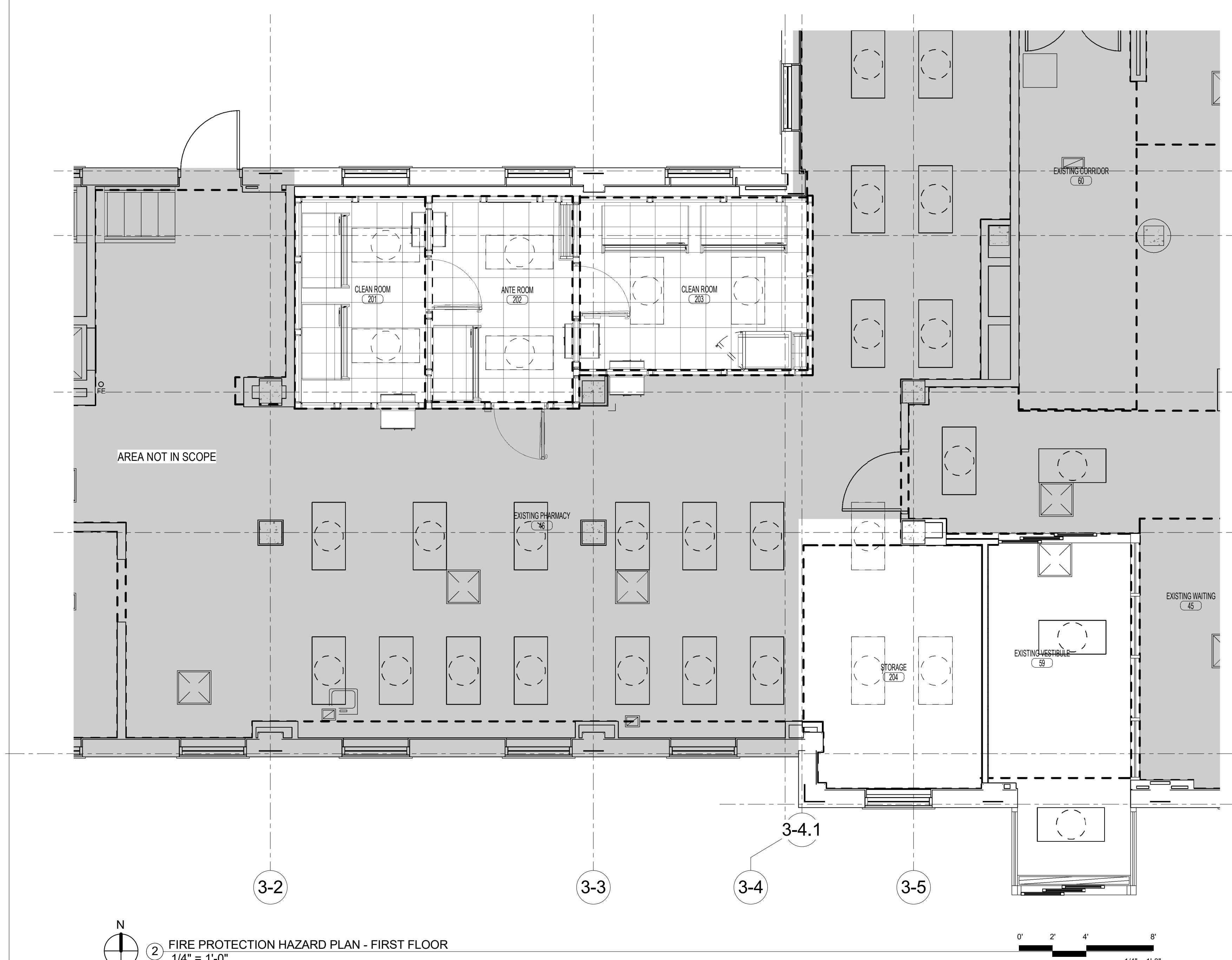
□ LIGHT HAZARD  
 ■ AREA NOT IN SCOPE

**# PLAN NOTES**

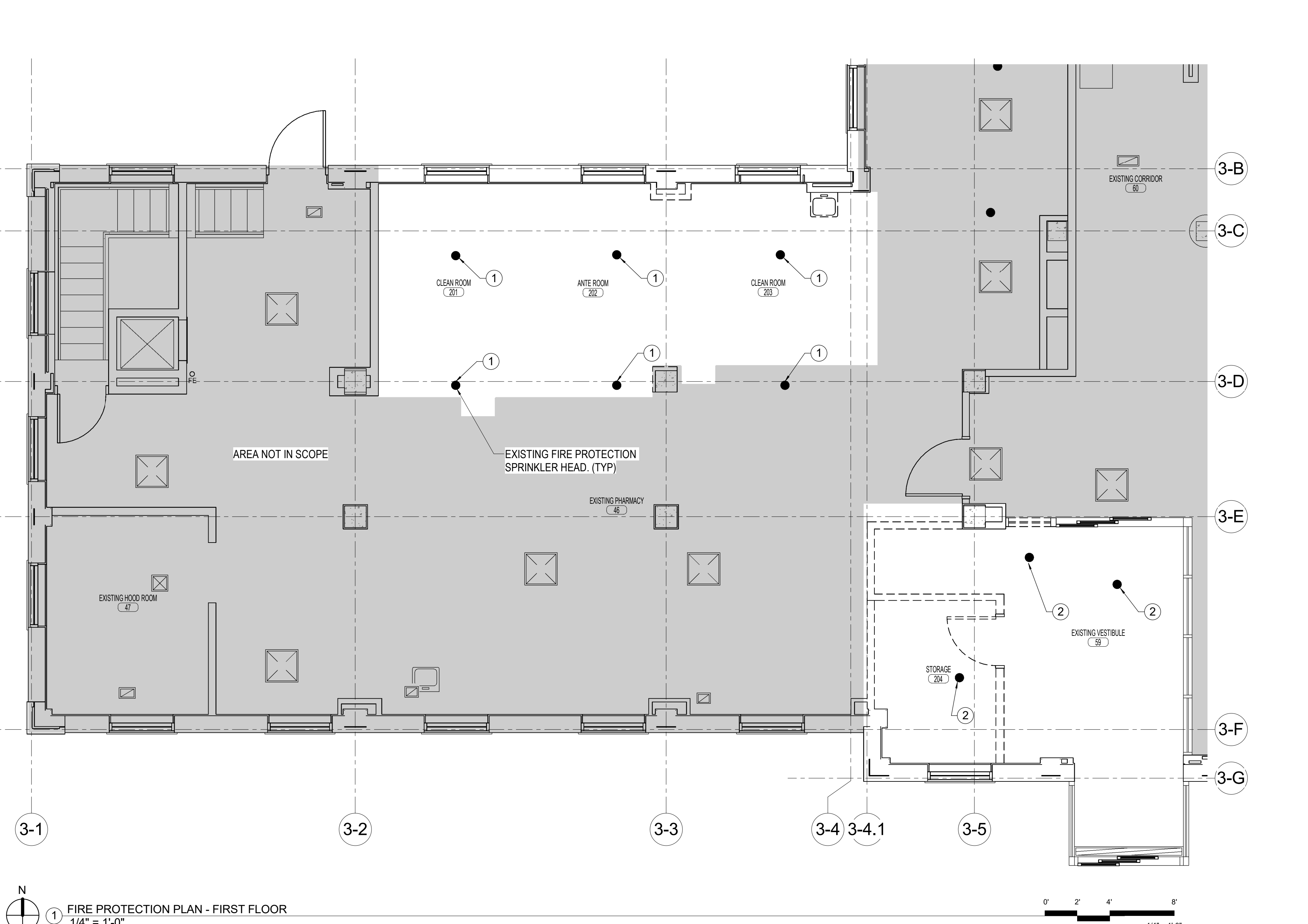
1. EXTEND SPRINKLER HEADS DOWN TO MODULAR UNIT. COORDINATE INSTALLATION OF HEADS WITH MODULAR SUPPLIER. REWORK HEADS AS REQUIRED FOR PROPER COVERAGE.
2. RELOCATE SPRINKLER HEADS AS REQUIRED TO SERVE NEW FLOOR PLAN AREA.

**GENERAL NOTES**

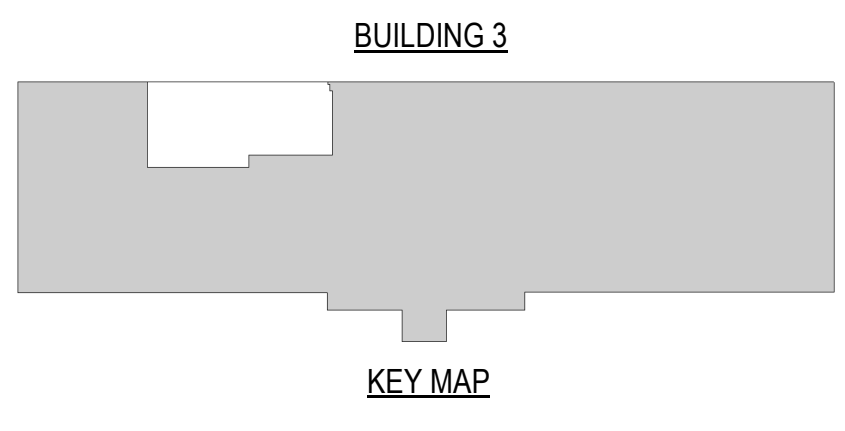
1. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK. BRING ANY DISCREPANCIES FROM THE DRAWINGS AND NOTES TO THE OWNER'S REPRESENTATIVE IMMEDIATELY. MINOR CHANGES IN THE SCOPE OF THE DEMOLITION WORK SHALL NOT JUSTIFY AN ADDITIONAL COST.
2. CONTRACTOR SHALL PROVIDE PROTECTIVE PLASTIC DROP CLOTHS TO PROTECT THE EXISTING OCCUPIED AREAS AND EQUIPMENT FROM DUST AND DEBRIS DURING THE CONSTRUCTION WORK AND SHALL CLEAN THE AREAS OF ALL CONSTRUCTION DIRT DAILY, AND UPON COMPLETION OF THE WORK.
3. ALL DRAINED PIPING RISERS AND MAINS SHALL BE REFILLED WITH FLUID AND PROPERLY VENTED BY THIS CONTRACTOR, ONCE NEW WORK HAS BEEN INSTALLED.
4. COORDINATE WITH THE OWNER THE REMOVAL AND REPLACEMENT OF ALL EXISTING CEILINGS, WALL, ETC. AS REQUIRED FOR MECHANICAL DEMOLITION WORK.
5. ALL CUTTING AND CHANNELING OF EXISTING NON-STRUCTURAL ELEMENTS SHALL BE ACCOMPLISHED IN A NEAT AND WORKMANLIKE MANNER WITHOUT REMOVAL OF EXCESS MATERIALS. THIS CONTRACTOR SHALL PATCH AND REPLACE WITH MATERIAL SIMILAR TO ADJACENT CONSTRUCTION.
6. CUTTING OF STRUCTURAL MEMBERS IS NOT ALLOWED.
7. THIS CONTRACTOR SHALL GIVE FULL COOPERATION TO THE OWNER IN THE SCHEDULING AND PROCEDURE OF WORK AND SHALL TAKE EVERY PRECAUTION TO PREVENT DAMAGE FROM FREEZING TO EXISTING SYSTEMS.
8. RELOCATE EXISTING DUCTWORK, PIPING, ELECTRICAL CONDUITS, AND CABLING AS NECESSARY TO ACCOMPLISH FINAL INSTALLATION AS SHOWN.
9. COORDINATE ROUTING OF PLUMBING AND HVAC PIPING WITH DUCTWORK, LIGHTS, ARCHITECTURAL CEILING AND STRUCTURAL ELEMENTS. PIPING SHALL RISE AND DROP, JOG OR OFFSET, AS REQUIRED TO AVOID CONFLICTS. DUCTWORK SHALL TAKE PRECEDENCE OVER ALL PIPING, EXCEPT WHERE GRADE MUST BE MAINTAINED FOR DRAINAGE.
10. ANY EXPENSES ARISING FROM LACK OF COORDINATION SHALL BE AT CONTRACTOR'S EXPENSE. ALL DUCT AND PIPE ELEVATIONS SHOWN IN PARENTHESIS ARE BOTTOM OF DUCT OR PIPE UNLESS INDICATED OTHERWISE ON PLANS.



2 FIRE PROTECTION HAZARD PLAN - FIRST FLOOR  
 1/4" = 1'-0"



1 FIRE PROTECTION PLAN - FIRST FLOOR  
 1/4" = 1'-0"



No.	Description	Date

**CONSULTANTS:**

-



**ARCHITECT/ENGINEERS:**

**m::HFG** **PEC**  
**ARCHITECTURE**  
 117 PIERCE ST, SUITE 110 142 N. MOSELY ST  
 SIOUX CITY, IOWA WICHITA, KANSAS

Drawing Title  
**FIRE PROTECTION PLANS**

Project Title CONSTRUCT PHARMACY STERILE SOLUTIONS ROOMS B3			Project Number 589A7-17-181
Location Robert J. Dole VA Medical Center WICHITA, KANSAS			Drawing Number FP101
Date 02/09/18	Checked RMH	Drawn AR	

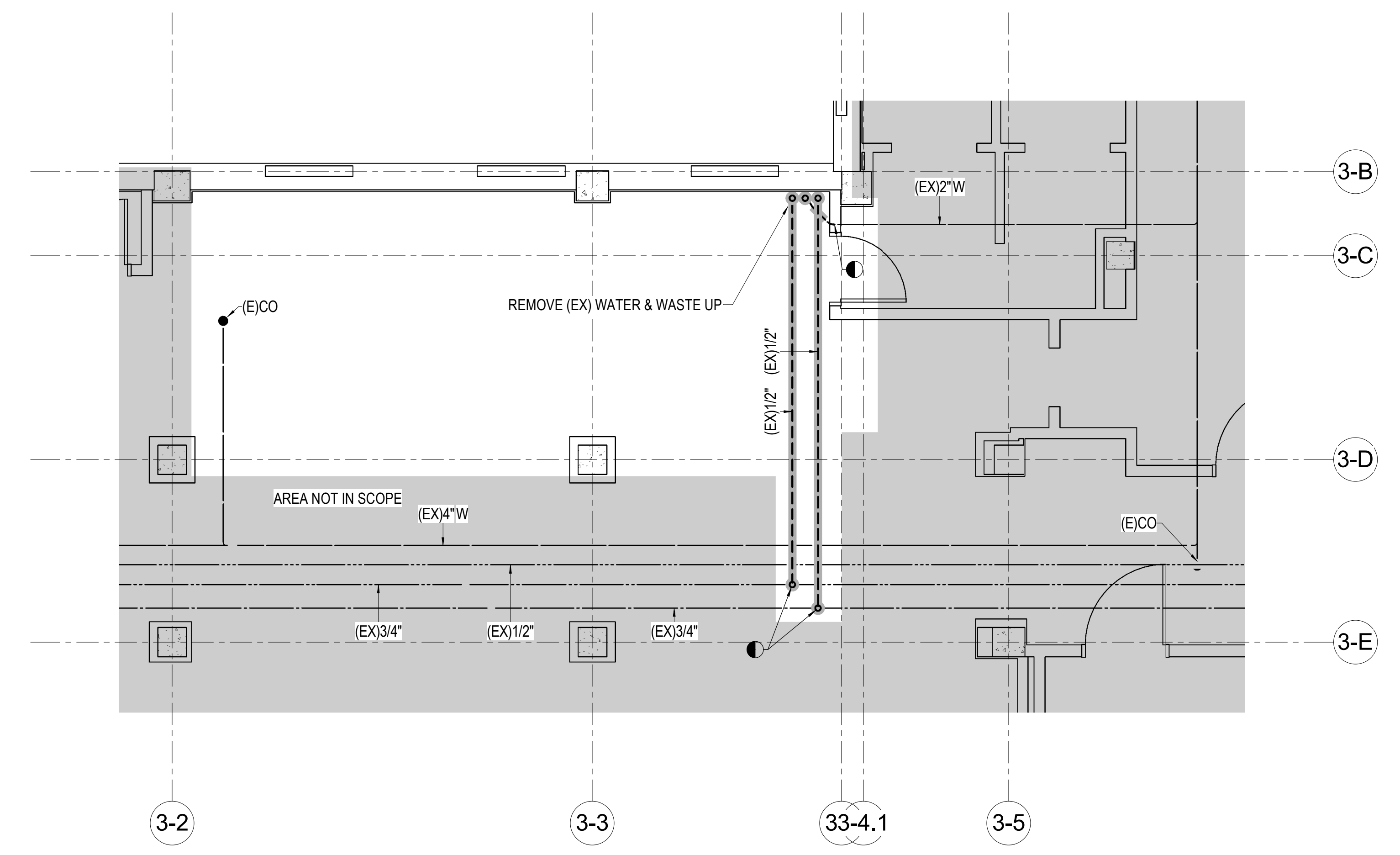
Office of Construction and Facilities Management  
 Department of Veterans Affairs



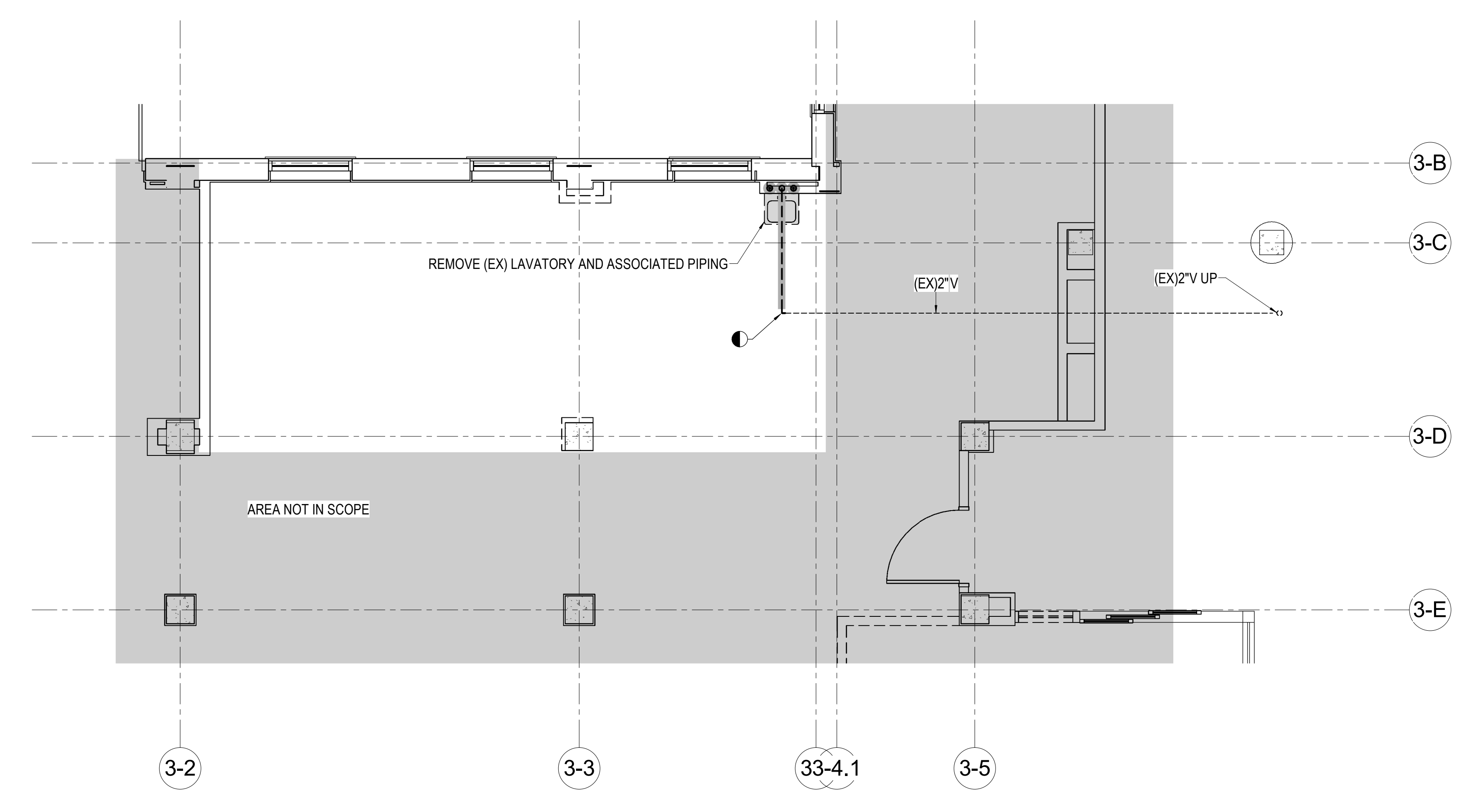


**PLUMBING DEMO NOTES**

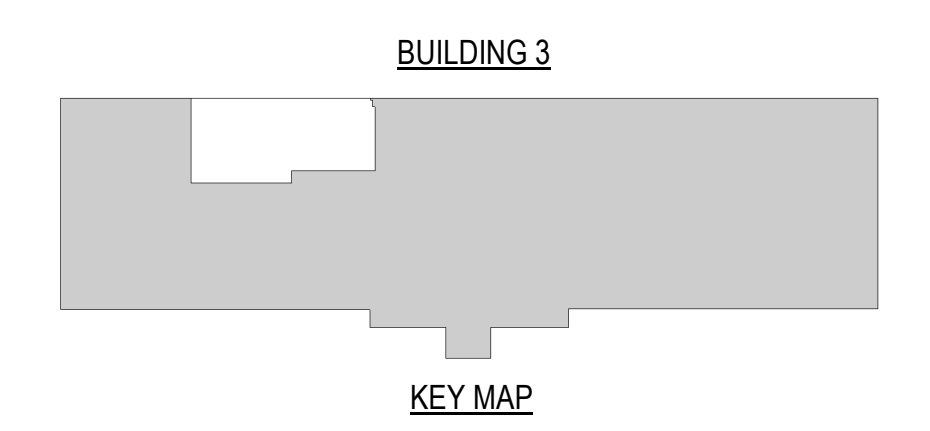
1. PLANS ARE SCHEMATIC IN NATURE. LAYOUT IS BASED ON BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS.
2. ALL CUTTING, PATCHING AND DEMOLITION WORK SHALL BE CLOSELY COORDINATED WITH THE EXISTING CONDITIONS AND THE REQUIRED NEW WORK. G.C. SHALL PATCH AND FINISH PENETRATIONS OF EXISTING SURFACES TO MATCH ADJACENT SURFACES.
3. ALL PIPING TO BE REMOVED SHALL BE CAPPED AT THE MAINS, AND HANGERS REMOVED, UNLESS OTHERWISE NOTED.
4. ALL ACCESSIBLE ABANDONED PIPING SHALL BE REMOVED.
5. REFER TO ARCHITECTURAL SPECIFICATIONS AND PLANS FOR PHASING OF DEMOLITION AND NEW WORK. ADJACENT AREAS ARE 100% OCCUPIED AND CONTRACTOR SHALL WORK CLOSELY WITH OWNER TO SCHEDULE DEMOLITION AND CONSTRUCTION TO BE AS LEAST DISRUPTIVE AS POSSIBLE.
6. ALL DEMO WORK ON SHALL BE DONE AT NIGHT AND/OR WEEKENDS, OR AS DIRECTED BY THE COR.
7. COMPLETE COORDINATION OF DRAWINGS SHALL BE REQUIRED BY PARAGRAPH "SUBMITTAL" IN SPECIFICATION SECTION 220511. CONSTRUCTION SHALL NOT START ON ANY SYSTEM UNTIL THE COORDINATION DRAWINGS HAVE BEEN APPROVED BY VA.



1 PLUMBING DEMOLITION PLAN - GROUND FLOOR  
1/4" = 1'-0"



2 PLUMBING DEMOLITION PLAN - FIRST FLOOR  
1/4" = 1'-0"



No.	Description	Date

**CONSULTANTS:**  
-



**ARCHITECT/ENGINEERS:**

**m::HFG** **PEC**  
ARCHITECTURE  
117 PIERCE ST., SUITE 110 142 N. MOSELY ST.  
SIOUX CITY, IOWA WICHITA, KANSAS

Drawing Title  
**PLUMBING DEMOLITION PLANS**

Project Title <b>CONSTRUCT PHARMACY STERILE SOLUTIONS ROOMS B3</b>		Project Number 589A7-17-181
Location Robert J. Dole VA Medical Center WICHITA, KANSAS		Drawing Number <b>PD100</b>
Date 02/09/18	Checked JAC	Drawn JGA

Office of  
Construction  
and Facilities  
Management

Department of  
Veterans Affairs

PLUMBING FIXTURE SCHEDULE										
MARK	DESCRIPTION	WASTE PIPE IN	VENT PIPE IN	COLD WATER IN	HOT WATER IN	WASTE FIXTURE UNITS	WATER FIXTURE UNITS	WRIST BLADE HANDLES	ELECTRIC SENSOR	REMARKS
P-531	SCRUB SINK	2	1.5	.5	.5	3	2	NO	NO	FOOT PEDAL CONTROL
P-710	EMERGENCY EYEWASH	2	1.5	.5	.5	-	-	NO	NO	FLAG CONTROL

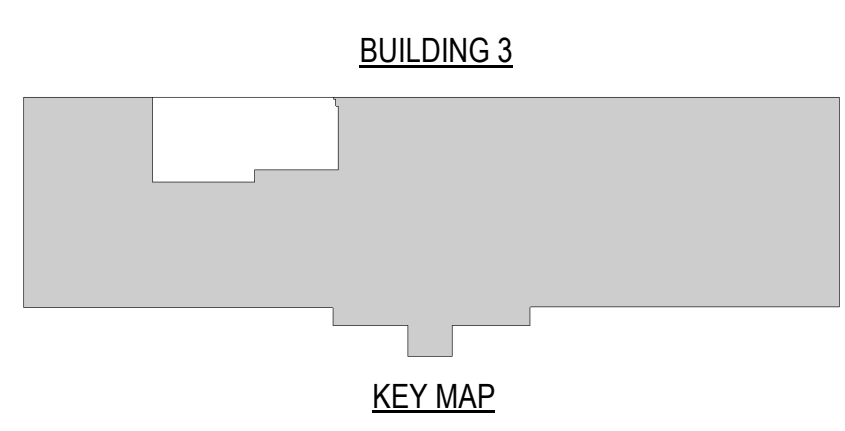
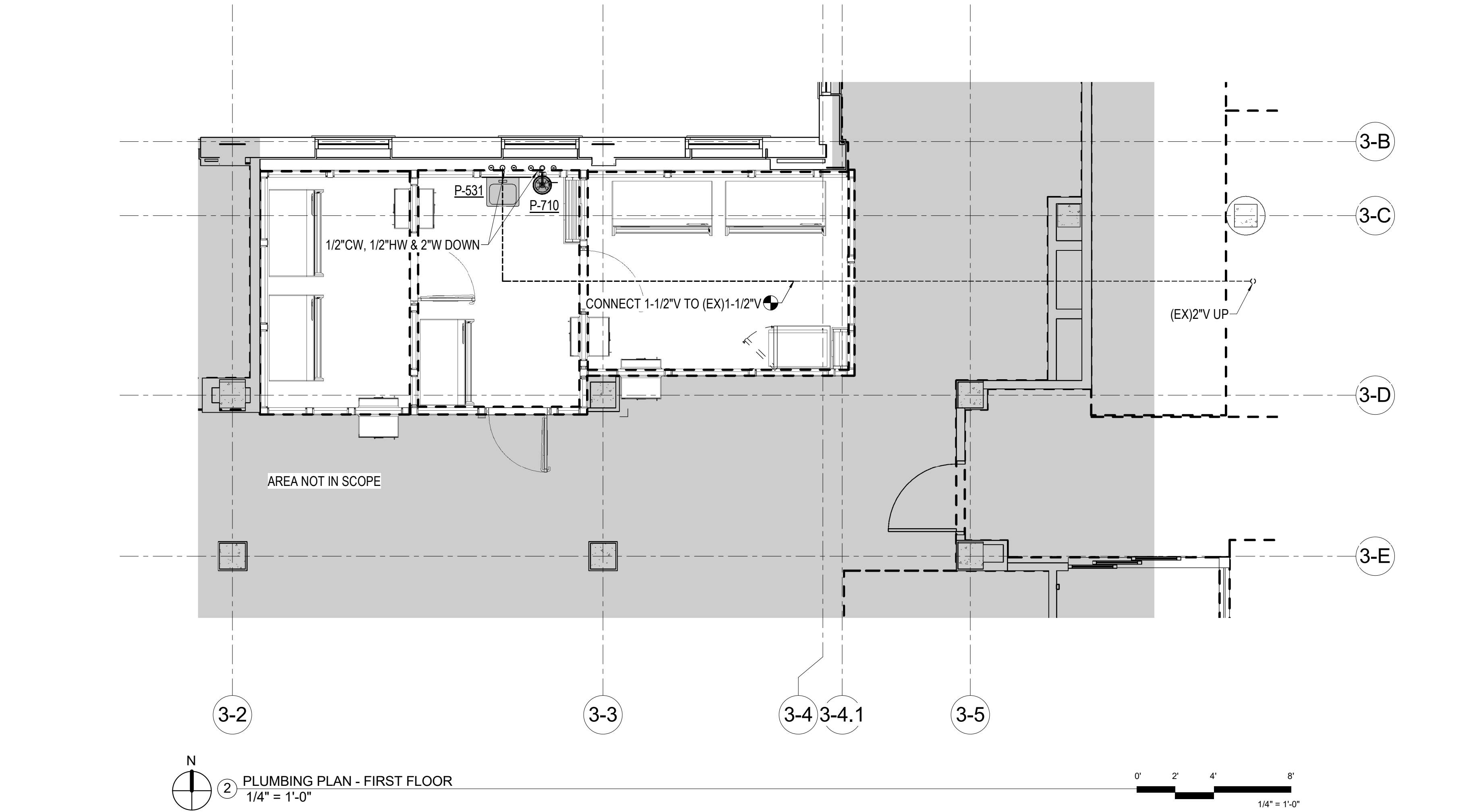
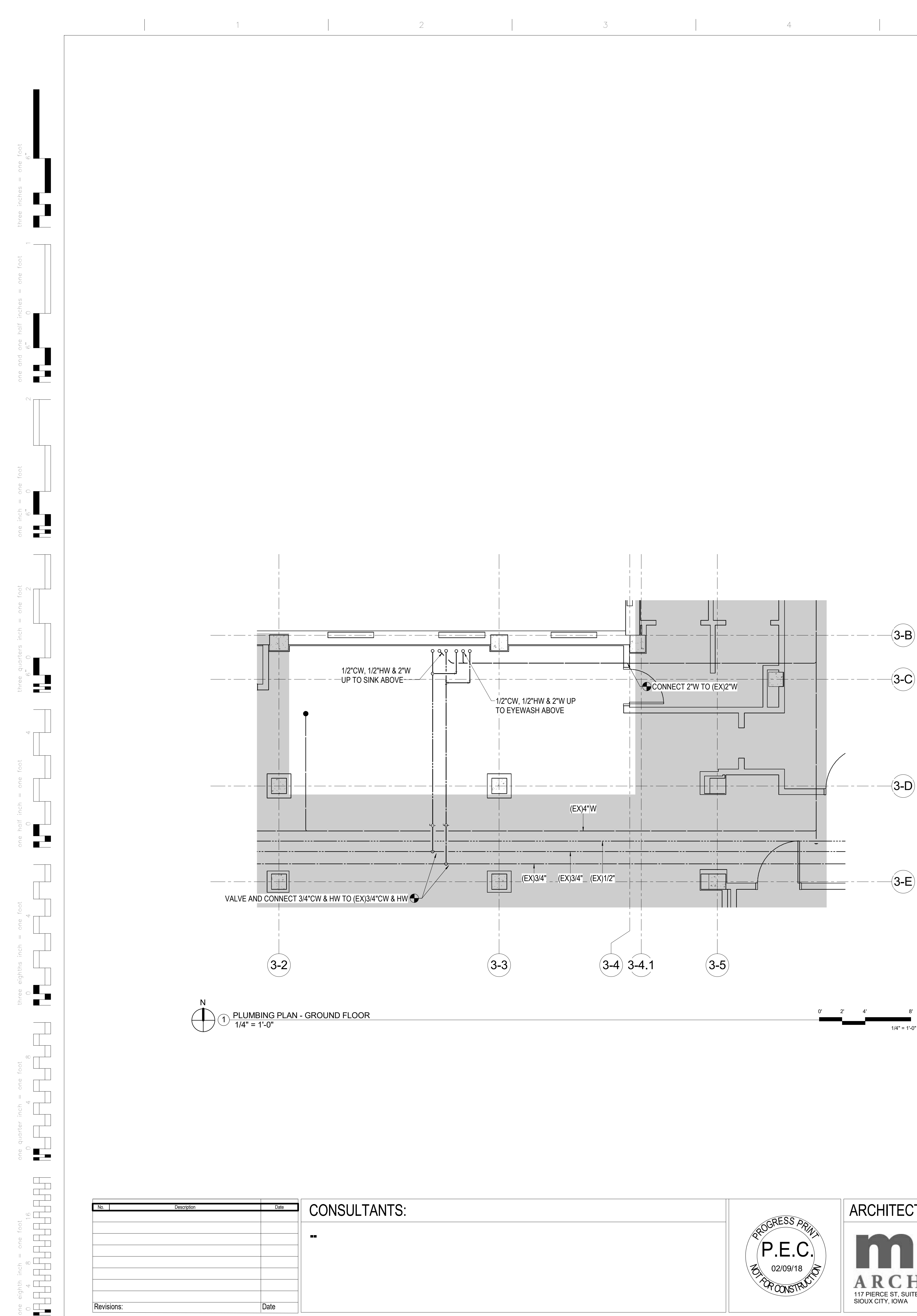
- GENERAL NOTES**
- PLANS ARE SCHEMATIC IN NATURE. LAYOUT IS BASED ON BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS.
  - ALL CUTTING, PATCHING AND DEMOLITION WORK SHALL BE CLOSELY COORDINATED WITH THE EXISTING CONDITIONS AND THE REQUIRED NEW WORK. G.C. SHALL PATCH AND FINISH PENETRATIONS OF EXISTING SURFACES TO MATCH ADJACENT SURFACES.
  - FIELD VERIFY BEST ROUTING FOR NEW PIPING AND DUCTWORK. COORDINATE WITH EXISTING EQUIPMENT, PIPING AND DUCTWORK. NEW PIPING SHALL RISE AND DROP, JOG OR OFFSET AS REQUIRED TO AVOID CONFLICTS. DUCTWORK SHALL TAKE PRECEDENCE OVER ALL PIPING, EXCEPT WHERE GRADE MUST BE MAINTAINED FOR DRAINAGE. ANY EXPENSES ARISING FROM LACK OF COORDINATION SHALL BE MADE AT THE CONTRACTOR'S EXPENSE.
  - REFER TO ARCHITECTURAL SPECIFICATIONS AND PLANS FOR PHASING OF DEMOLITION AND NEW WORK. ADJACENT AREAS ARE 100% OCCUPIED AND CONTRACTOR SHALL WORK CLOSELY WITH OWNER TO SCHEDULE DEMOLITION AND CONSTRUCTION TO BE AS LEAST DISRUPTIVE AS POSSIBLE.
  - ALL WORK SHALL BE DONE AT NIGHT AND/OR WEEKENDS, OR AS DIRECTED BY THE COR.
  - COMPLETE COORDINATION OF DRAWINGS SHALL BE REQUIRED BY PARAGRAPH "SUBMITTAL" IN SPECIFICATION SECTION 220511. CONSTRUCTION SHALL NOT START ON ANY SYSTEM UNTIL THE COORDINATION DRAWINGS HAVE BEEN APPROVED BY VA.

**PLUMBING FIXTURE DESCRIPTION**

**P-531: SCRUB SINK:**  
 BASED ON ELKAY EWS31201 31"X20"X10-1/2" DEEP 14 GAUGE STAINLESS STEEL WALL HUNG SINK WITH SINGLE HOLE DRILLING, BACKSPASH, AND WALL HANGER - CHICAGO FAUCET 629-FCABCP REMOTE GOOSENECK SPOUT WITH LAMINAR FLOW CONTROL, IN SPOUT INLET - CHICAGO FAUCET 834-EP5L0ABCP PEDAL BOX WITH EXTENDED PEDALS, REBUILDABLE AUTO-TIMED METERING CARTRIDGE, LOOSE KEY STOPS - GRID STRAINER DRAIN - CHROME PLATED CAST BRASS "P" TRAP. MOUNT RIM OF SINK AT 34" A.F.F. FLOOR MOUNTED CARRIER.

**P-710: EMERGENCY EYEWASH:**  
 BASED ON GUARDIAN GBF1724BC WALL MOUNTED EMERGENCY EYE/FACEWASH WITH STAINLESS STEEL BOWL AND DUST COVER, FLAG OPERATED STAINLESS STEEL STAY-OPEN BALL VALVE CONTROLLING FLOW TO EYEWASH, WALL BRACKET - WALL SUPPLY WITH LOOSE KEY STOP - 1-1/2" P" TRAP - GUARDIAN G3602 TEMPERING VALVE (FLOW RATE OF 4 GPM AT 10 PSI PRESSURE DROP) WITH CHECKSTOPS AND THERMOMETER IN STAINLESS STEEL CABINET IN WALL ABOVE, RUN 3/4" TEMPERED WATER LINE FROM VALVE TO EYEWASH. MOUNT TO CLEAR WHEELCHAIR KNEE CLEARANCE.

COMPLETE LAYOUT DRAWINGS SHALL BE REQUIRED BY SPECIFICATION PARAGRAPH, SUBMITTALS. CONSTRUCTION WORK SHALL NOT START ON ANY SYSTEM UNTIL THE LAYOUT DRAWINGS HAVE BEEN APPROVED BY VA.



<table border="1"> <thead> <tr> <th>No.</th> <th>Description</th> <th>Date</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr> <td>Revisions:</td> <td> </td> <td>Date</td> </tr> </tbody> </table>	No.	Description	Date																			Revisions:		Date	<b>CONSULTANTS:</b> -		<b>ARCHITECT/ENGINEERS:</b>  	Drawing Title <b>PLUMBING PLANS</b>	Project Title <b>CONSTRUCT PHARMACY STERILE SOLUTIONS ROOMS B3</b>	Project Number <b>589A7-17-181</b>	Office of Construction and Facilities Management 
	No.	Description	Date																												
Revisions:		Date																													
Location Robert J. Dole VA Medical Center WICHITA, KANSAS	Drawing Number <b>PL100</b>	Date <b>02/09/18</b>	Checked <b>JAC</b>	Drawn <b>JGA</b>																											

ABBREVIATIONS

Table of abbreviations for mechanical systems, including Architect/Engineer, Air Heat Exchanger, Air Blender, etc.

ABBREVIATIONS

Table of abbreviations for mechanical systems, including Existing, Exhaust Air, Entering Air, etc.

ABBREVIATIONS

Table of abbreviations for mechanical systems, including Input/Output, Indoor Air Quality, Inverted Bucket Trap, etc.

ABBREVIATIONS

Table of abbreviations for mechanical systems, including Pump, Pascal, Pumped Condensate, etc.

ABBREVIATIONS

Table of abbreviations for mechanical systems, including Under Cut, Unit Cooler, Unit Heater, etc.

Vertical scale markings on the left side of the page, including 'one eighth inch = one foot', 'one quarter inch = one foot', etc.

Vertical scale markings on the right side of the page, including 'one eighth inch = one foot', 'one quarter inch = one foot', etc.

MECHANICAL SHEET INDEX

Table with 2 columns: Sheet ID and Description. Rows include MM001 MECHANICAL COVER SHEET, MM002 MECHANICAL COVER SHEET, M-101 MECHANICAL FLOOR PLANS, M-501 MECHANICAL DETAILS AND SCHEDULES.

Table with 3 columns: No., Description, Date. Includes a Revisions section at the bottom.

CONSULTANTS: -



ARCHITECT/ENGINEERS: mHFG ARCHITECTURE and PEC logos. Address: 117 PIERCE ST., SUITE 110 SIOUX CITY, IOWA and 142 N. MOSELEY ST WICHITA, KANSAS.

Drawing Title: MECHANICAL COVER SHEET

Table with Project Title, Location, Date, Checked, Draw, Drawing Number, Project Number.

Office of Construction and Facilities Management. Department of Veterans Affairs logo.

PIPING SYMBOLS	
FWD	FEEDWATER PUMP DISCHARGE
FWS	FEEDWATER PUMP SUCTION
CTPD	CONDENSATE TRANSFER PUMP DISCHARGE
CTPS	CONDENSATE TRANSFER PUMP SUCTION
VR	VACUUM CONDENSATE RETURN
TC	TUBE CLEANER WATER SUPPLY
BO	BOILER BLOWOFF
CB	CONTINUOUS BLOWDOWN
BWS	BOILER WATER SAMPLE
FWS	FEEDWATER SAMPLE (FROM DEAERATOR)
CF	CHEMICAL FEED
OFL	OVERFLOW
A	COMPRESSED AIR
G	NATURAL GAS MAIN FUEL
GI	NATURAL GAS IGNITER FUEL
GPS	LIQUEFIED PETROLEUM GAS IGNITER FUEL
FOS	FUEL OIL SUPPLY
FOR	FUEL OIL RETURN
OW	COLD WATER (CITY WATER)
SW	SOFTENED WATER
HW	HOT WATER
RH	ROLLER-TYPE HANGER
SH	VARIABLE SPRING-TYPE HANGER (TYPE 51)*
SCH	SPRING CUSHION-TYPE HANGER (TYPE 48 OR 49)*
TH	CLEVIS-TYPE HANGER
PS	TRAPEZE HANGER (PROVIDE U-BOLT PIPE ATTACHMENT TO TRAPEZE EXCEPT WHERE RH ARE INDICATED)
RC	FLOOR-SUPPORTED PIPE STAND
RCL	RISER CLAMP (TYPE 42)*
WB	WALL BRACKET (TYPE 31, 32, 33)*
CSH	CONSTANT SUPPORT HANGER (TYPE 54, 55, 56)*
SS	SLIDING SUPPORTS (TYPE 35)*

\* TYPE NUMBERS REFER TO MANUFACTURER'S STANDARDIZATION SOCIETY STANDARD PRACTICE SP-58

PIPING SYMBOLS	
HPS	HIGH PRESSURE STEAM (60 PSIG AND ABOVE)
HPR	HIGH PRESSURE STEAM CONDENSATE RETURN
MPS	MEDIUM PRESSURE STEAM (16 PSIG THRU 59 PSIG)
MPR	MEDIUM PRESSURE STEAM CONDENSATE RETURN
LPS	LOW PRESSURE STEAM (15 PSIG AND BELOW)
LPR	LOW PRESSURE STEAM CONDENSATE RETURN
PC	CONDENSATE PUMP DISCHARGE
HWS	HOT WATER HEATING SUPPLY
HWR	HOT WATER HEATING RETURN
GWS	GLYCOL-WATER HEATING SUPPLY
GWR	GLYCOL-WATER HEATING RETURN
SWS	SOLAR WATER SUPPLY
SWR	SOLAR WATER RETURN
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
RHG	REFRIGERANT HOT GAS
CWS	CONDENSER WATER SUPPLY (FROM TOWER)
CWR	CONDENSER WATER RETURN (TO TOWER)
CWS	CHILLED WATER SUPPLY
CWR	CHILLED WATER RETURN
GCS	CHILLED GLYCOL-WATER SUPPLY
GCR	CHILLED GLYCOL-WATER RETURN
MW	MAKE-UP WATER
D	DRAIN LINE
V	VENT LINE
GWS	GLYCOL-WATER RUN AROUND SUPPLY
GWR	GLYCOL-WATER RUN AROUND RETURN
X	EXISTING PIPE TO BE REMOVED

GENERAL PIPING SYMBOLS	
	DIRECTION OF PIPE PITCH (DOWN)
	DIRECTION OF FLOW
	ANCHOR
	REDUCER OR INCREASER
	ECCENTRIC REDUCER
	TOP CONNECTION, 45° OR 90°
	BOTTOM CONNECTION, 45° OR 90°
	SIDE CONNECTION
	CAPPED OUTLET
	RISE OR DROP IN PIPE
	UNION
	PIPE UP
	PIPE DOWN
	INVERTED BUCKET TRAP SET INCLUDING PIPING ACCESSORIES SEE DETAIL
	FLOAT & THERMOSTATIC TRAP SET INCLUDING PIPING ACCESSORIES SEE DETAIL
	THERMOSTATIC TRAP SET INCLUDING PIPING ACCESSORIES SEE DETAIL
	THERMOMETER
	PRESSURE GAGE
	FLOW ELEMENT
	REFRIGERANT SIGHT GLASS
	TEST PLUG (PRESSURE/TEMPERATURE)
	AUTOMATIC AIR VENT
	MANUAL AIR VENT
	QUICK-COUPLE HOSE CONNECTOR
	FIRE PROTECTION RISER LOCATION

VALVE SYMBOLS	
	GATE VALVE - THREADED/FLANGED
	GLOBE VALVE - THREADED/FLANGED
	GLOBE VALVE WITH 3/4" HOSE ADAPTER
	CHECK VALVE
	WYE STRAINER (WITH BALL VALVE & HOSE CONNECTION)
	WYE STRAINER WITH VALVED DRAIN AND QUICK-COUPLE HOSE CONNECTOR
	FLEXIBLE CONNECTION
	ANGLE GLOBE VALVE
	BUTTERFLY VALVE
	BALL VALVE
	MODULATING CONTROL VALVE
	MODULATING CONTROL BUTTERFLY VALVE
	TWO POSITION CONTROL VALVE
	THREE-WAY MODULATING CONTROL VALVE
	THREE-WAY TWO POSITION CONTROL VALVE
	PRESSURE REGULATING VALVE
	PRESSURE SAFETY VALVE
	AUTOMATIC BALANCING CONTROL VALVE
	WATER BALANCE DEVICE
	CIRCUIT SETTER VALVE
	GATE VALVE WITH GLOBE-VALVED BYPASS
	PLUG VALVE
	CONTROL VALVE (CV) - FLOAT-OPERATED
	PRESSURE REDUCING VALVE (PRV)
	WATER LEVEL CONTROLLER
	FLOW METER

DRAWING SYMBOLS	
	DETAIL NUMBER DRAWING NUMBER WHERE DRAWN
	SECTION LETTER DRAWING NUMBER WHERE SHOWN
	BUILDING NO. WHERE EQUIPMENT IS LOCATED.
	EQUIPMENT ABBREVIATION (SUPPLY FAN)
	SUPPLY FAN NO. 3 IN BUILDING NO. 26
	TYPICAL UNIT NO.
	BUILDING NO. WHERE EQUIPMENT IS LOCATED
	ITEM (TERMINAL UNIT SHOWN)
	ITEM NUMBER (TERMINAL UNIT NO. 1)
	SERVED BY AIR HANDLER UNIT NO. 1

AIR TERMINAL SYMBOLS	
	TERMINAL UNIT WITH REHEAT COIL
	DOUBLE DUCT MIXING BOX.
	FAN POWERED VARIABLE VOLUME TERMINAL UNIT WITH HEATING COIL

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

DUCTWORK SYMBOLS	
	FLEXIBLE CONNECTION, EQUIPMENT, VIBRATION, OR SEISMIC
	VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH VANES EVEN IF SYMBOL IS MISSING)
	VANED ELBOW (SHORT RADIUS)
	STANDARD RADIUS ELBOW (LONG RADIUS)
	NEW DUCT (INSIDE DIMENSIONS: WIDTH x DEPTH)
	EXISTING DUCT TO REMAIN
	EXISTING DUCT TO BE REMOVED
	LOUVER (LOUVER SPECIFIED IN ARCHITECTURAL SECTION.)
	FLEXIBLE DUCTWORK (INSULATED)
	DUCT WITH SOUND LINING
	MANUAL VOLUME DAMPER
	FIRE DAMPER
	BACK DRAFT DAMPER

DUCTWORK SYMBOLS	
	COMBINATION FIRE/SMOKE DAMPER
	POINT OF CHANGE IN DUCT CONSTRUCTION BY STATIC PRESSURE CLASS. THE NUMBER ASSIGNS PRESSURE CLASS (IN. OF WATER) WHICH WILL ACCOMMODATE MAXIMUM OPERATING PRESSURE IN THE DUCT SUBSECTION. THE SYMBOL CONTINUES THE ASSIGNMENT UNTIL THE DUCT TERMINATES OR ANOTHER SYMBOL APPEARS. A "N" SUPERSCRIPT INDICATES NEGATIVE PRESSURE.
	AUTOMATIC CONTROL DAMPER MODULATING
	AUTOMATIC CONTROL DAMPER TWO POSITION
	STAINLESS STEEL DUCT
	MANUAL SPLITTER DAMPER
	STANDARD BRANCH SUPPLY OR RETURN, NO SPLITTER (45° TAP)
	DUCT MOUNTED COIL (HOT WATER OR STEAM COIL)
	DUCT MOUNTED COIL (ELECTRIC)

TERMINAL UNIT SYMBOLS	
	CEILOMETER OR RADIATOR (RECESSED)
	CEILOMETER OR RADIATOR (WALL HUNG)
	FLOOR MOUNTED VERTICAL RECESSED FAN COIL UNIT. LETTER INDICATES UNIT SIZE.
	FLOOR MOUNTED VERTICAL CABINET FAN COIL UNIT. LETTER INDICATES UNIT SIZE.
	THRU WALL AIR CONDITIONING UNIT. LETTER INDICATES UNIT SIZE.
	WINDOW TYPE AIR CONDITIONING UNIT. LETTER INDICATES UNIT SIZE.
	FLOOR MOUNTED HEAT PUMP. LETTER INDICATES UNIT SIZE.
	AIR CURTAIN
	UNIT HEATER (HORIZONTAL)
	UNIT HEATER (VERTICAL)
	2x2 RADIANT CEILING PANEL
	2x4 RADIANT CEILING PANEL

DUCTWORK SYMBOLS	
	SUPPLY DUCT (UP & DOWN)
	EXHAUST DUCT (UP & DOWN)
	RETURN DUCT (UP & DOWN)
	ROUND AND SQUARE 4-WAY CEILING DIFFUSERS
	SQUARE 3-WAY CEILING DIFFUSERS
	SQUARE 2-WAY CEILING DIFFUSERS
	SQUARE 1-WAY CEILING DIFFUSERS
	LINEAR SLOT DIFFUSER
	SUPPLY TOP REGISTER OR GRILLE (WALL TYPE)
	EXHAUST OR RETURN CEILING REGISTER OR GRILLE (WALL TYPE)
	EXHAUST OR RETURN BOTTOM REGISTER OR GRILLE (WALL TYPE)
	EXHAUST OR RETURN REGISTER OR TOP GRILLE (WALL TYPE)
	VANED ELBOW & AIR SPLIT TYPE DUCT TAKE-OFF
	CONNECT NEW DUCT TO EXISTING DUCT
	INCLINED RISE, IN DIRECTION OF AIR FLOW
	INCLINED DROP, IN DIRECTION OF AIR FLOW
	LIMIT OF DEMOLITION

No.	Description	Date

CONSULTANTS:  
-



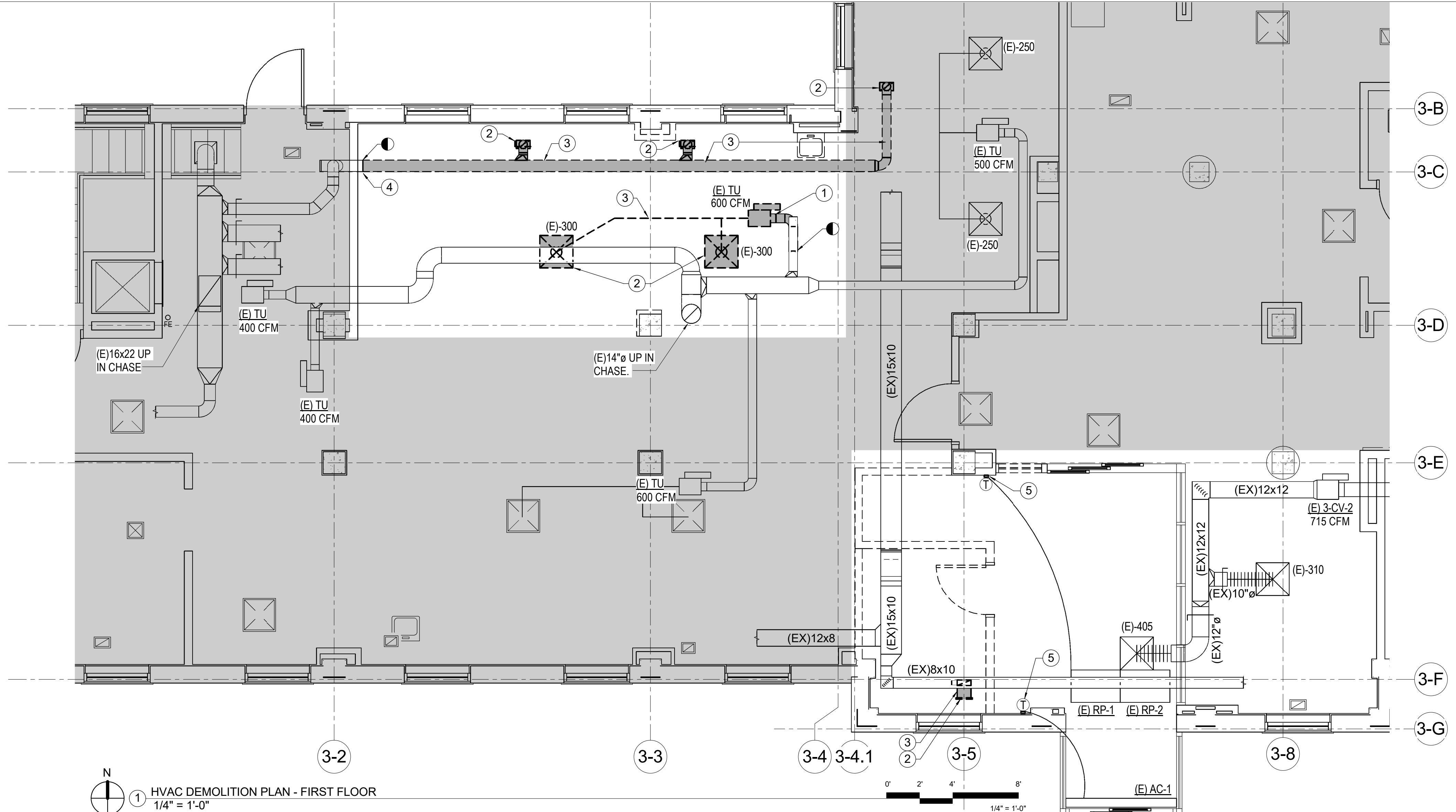
ARCHITECT/ENGINEERS:  
**mHFG** **PEC**  
**ARCHITECTURE**  
117 PIERCE ST., SUITE 110  
SIOUX CITY, IOWA  
142 N. MOSELEY ST  
WICHITA, KANSAS

Drawing Title  
**MECHANICAL COVER SHEET**

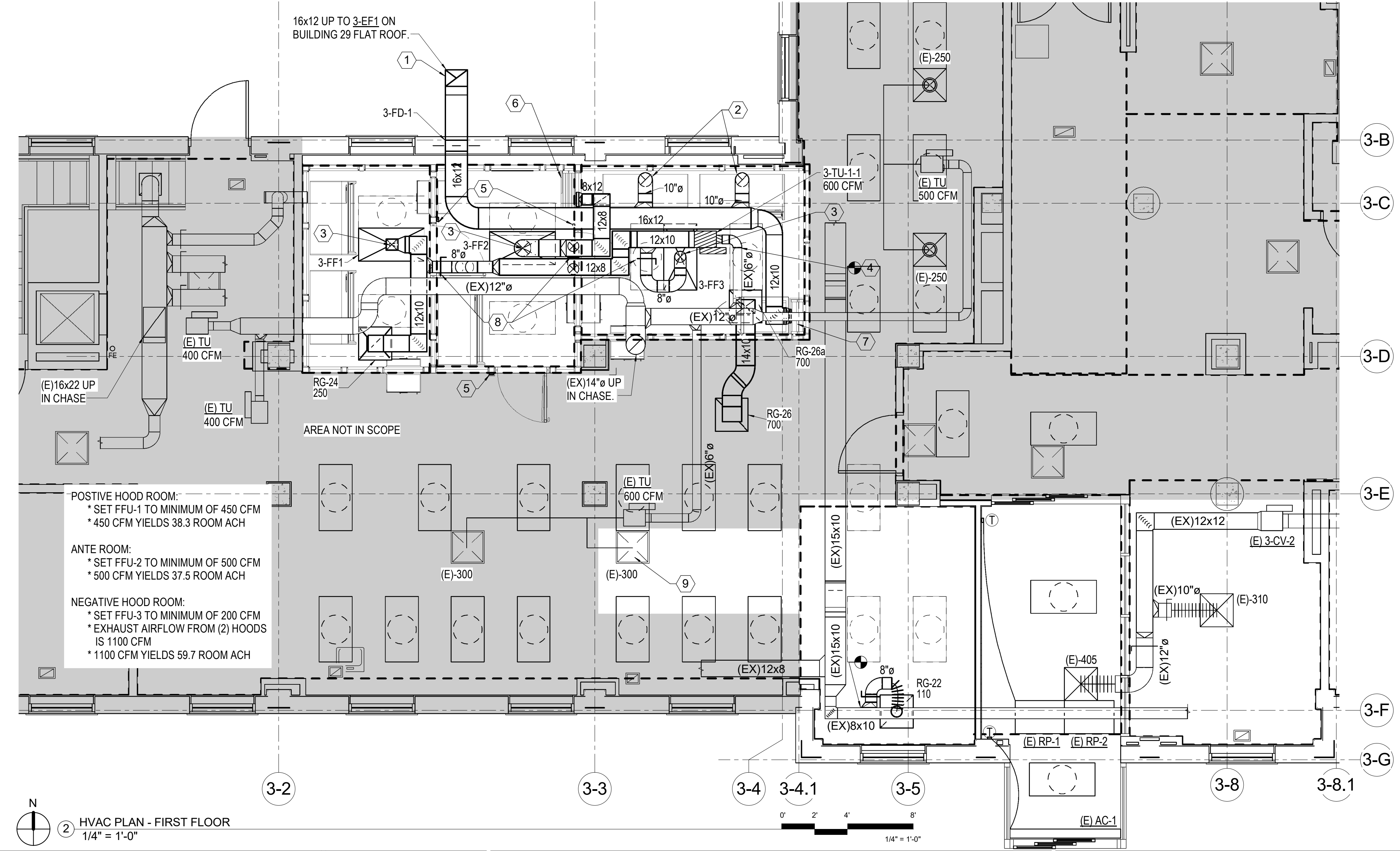
Project Title CONSTRUCT PHARMACY STERILE SOLUTIONS ROOMS B3	Project Number 589A7-17-181
Location Robert J. Dole VA Medical Center WICHITA, KANSAS	Drawing Number MM002
Date 02/09/18	Checked RMH
	Drawn AR

Office of  
Construction  
and Facilities  
Management  
 Department of  
Veterans Affairs

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



1 HVAC DEMOLITION PLAN - FIRST FLOOR  
1/4" = 1'-0"



2 HVAC PLAN - FIRST FLOOR  
1/4" = 1'-0"

- # DEMO PLAN NOTES**
- DEMOLISH EXISTING TERMINAL UNIT AND PREPARE MEDIUM VELOCITY SUPPLY DUCT FOR RECONNECTION IN NEW CONSTRUCTION. REMOVE CORRESPONDING THERMOSTAT AND CONTROLS.
  - REMOVE DIFFUSER/GRILLE.
  - REMOVE DASHED/SHADED DUCTWORK.
  - INSTALL CAP ON DUCTWORK.
  - REMOVE THERMOSTAT AND REINSTALL IN NEW CONSTRUCTION. SEE PLAN 2/M-101 FOR NEW LOCATION.
- MECHANICAL GENERAL NOTES**
- FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK. BRING ANY DISCREPANCIES FROM THE DRAWINGS AND NOTES TO THE OWNER'S REPRESENTATIVE IMMEDIATELY. MINOR CHANGES IN THE SCOPE OF THE DEMOLITION WORK SHALL NOT JUSTIFY AN ADDITIONAL COST.
  - CONTRACTOR SHALL PROVIDE PROTECTIVE PLASTIC DROP CLOTHS TO PROTECT THE EXISTING OCCUPIED AREAS AND EQUIPMENT FROM DUST AND DEBRIS DURING THE CONSTRUCTION WORK AND SHALL CLEAN THE AREAS OF ALL CONSTRUCTION DIRT DAILY, AND UPON COMPLETION OF THE WORK.
  - ALL DRAINED PIPING RISERS AND MAINS SHALL BE FILLED WITH FLUID AND PROPERLY VENTED BY THIS CONTRACTOR, ONCE NEW WORK HAS BEEN INSTALLED.
  - COORDINATE WITH THE OWNER THE REMOVAL AND REPLACEMENT OF ALL EXISTING CEILING, WALL, ETC. AS REQUIRED FOR MECHANICAL DEMOLITION WORK.
  - ALL CUTTING AND CHANNELING OF EXISTING NON-STRUCTURAL ELEMENTS SHALL BE ACCOMPLISHED IN A NEAT AND WORKMANLIKE MANNER WITHOUT REMOVAL OF EXCESS MATERIALS. THIS CONTRACTOR SHALL PATCH AND REPLACE WITH MATERIAL SIMILAR TO ADJACENT CONSTRUCTION.
  - CUTTING OF STRUCTURAL MEMBERS IS NOT ALLOWED.
  - THIS CONTRACTOR SHALL GIVE FULL COOPERATION TO THE OWNER IN THE SCHEDULING AND PROCEDURE OF WORK AND SHALL TAKE EVERY PRECAUTION TO PREVENT DAMAGE FROM FREEZING TO EXISTING SYSTEMS.
  - RELOCATE EXISTING DUCTWORK, PIPING, ELECTRICAL CONDUITS, AND CABLING AS NECESSARY TO ACCOMPLISH FINAL INSTALLATION AS SHOWN.
  - CAP ALL EXISTING DUCTWORK SHOWN TO BE DISCONNECTED AND NOT RE-USED.
  - COORDINATE ROUTING OF PLUMBING AND HVAC PIPING WITH DUCTWORK, LIGHTS, ARCHITECTURAL CEILING AND STRUCTURAL ELEMENTS. PIPING SHALL RISE AND DROP, JOG OR OFFSET, AS REQUIRED TO AVOID CONFLICTS. DUCTWORK SHALL TAKE PRECEDENCE OVER ALL PIPING, EXCEPT WHERE GRADE MUST BE MAINTAINED FOR DRAINAGE.
  - ANY EXPENSES ARISING FROM LACK OF COORDINATION SHALL BE AT CONTRACTOR'S EXPENSE. ALL DUCT AND PIPE ELEVATIONS SHOWN IN PARENTHESIS ARE BOTTOM OF DUCT OR PIPE UNLESS INDICATED OTHERWISE ON PLANS.
  - ALL SUPPLY, RETURN, AND EXHAUST BRANCHES TO GRILLES, REGISTERS, AND DIFFUSERS SHALL HAVE A MANUAL BALANCE DAMPER.

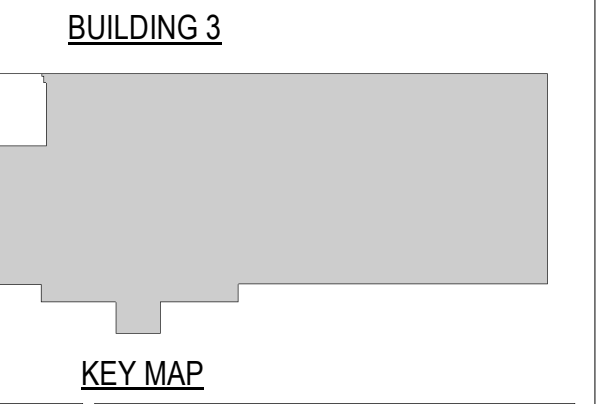
- # PLAN NOTES**
- EXHAUST FAN TO HAVE 10'-0" PLUME AND INSTALLED AT LEAST 25'-0" AWAY FROM AHU INTAKES, AND 10'-0" AWAY FROM ROOF EDGE.
  - TYPICAL FUME HOOD EXHAUST CONNECTION. DUCT SIZE AND LOCATION TO BE VERIFIED WITH THE MODULAR MANUFACTURER.
  - TYPICAL SUPPLY AIR CONNECTION TO MANUFACTURER SUPPLIED HEPA FAN FILTER UNIT. DUCT SIZE AND LOCATION TO BE VERIFIED WITH THE MODULAR MANUFACTURER. AIRFLOWS ARE SPECIFIED IN THE FAN FILTER UNIT SCHEDULE.
  - RECONNECT EXISTING HYDRONIC PIPING TO NEW TERMINAL UNIT.
  - DIGITAL MONITORING SYSTEMS INSTALLED AND PROVIDED BY MODULAR MANUFACTURER. DIGITAL MONITORS TO MEASURE TEMPERATURE, HUMIDITY, PRESSURE, HEPA FUNCTIONALITY, AND AIR CHANGES. COORDINATE LOCATION WITH MODULAR MANUFACTURER. TEMPERATURE CONTROL SHALL TIE INTO TERMINAL UNIT 3-TU-1-1.
  - RETURN AIR GRILLE PROVIDED BY MODULAR MANUFACTURER.
  - EXHAUST AIR GRILLE PROVIDED BY MODULAR MANUFACTURER.
  - SET AIRFLOW TO 200 CFM.
  - RELOCATE DIFFUSER HORIZONTALLY TOWARDS NEW REMODEL AREA BY EXTENDING FLEX DUCT TO MAXIMUM 6'-0" LENGTH.

**POSITIVE HOOD ROOM:**  
\* SET FFU-1 TO MINIMUM OF 450 CFM  
\* 450 CFM YIELDS 38.3 ROOM ACH

**ANTE ROOM:**  
\* SET FFU-2 TO MINIMUM OF 500 CFM  
\* 500 CFM YIELDS 37.5 ROOM ACH

**NEGATIVE HOOD ROOM:**  
\* SET FFU-3 TO MINIMUM OF 200 CFM  
\* EXHAUST AIRFLOW FROM (2) HOODS IS 1100 CFM  
\* 1100 CFM YIELDS 59.7 ROOM ACH

AREA NOT IN SCOPE



No.	Description	Date

Revisions: \_\_\_\_\_ Date: \_\_\_\_\_

CONSULTANTS:  
-



ARCHITECT/ENGINEERS:  
**mHFG**  
ARCHITECTURE  
117 PIERCE ST, SUITE 110  
SIOUX CITY, IOWA

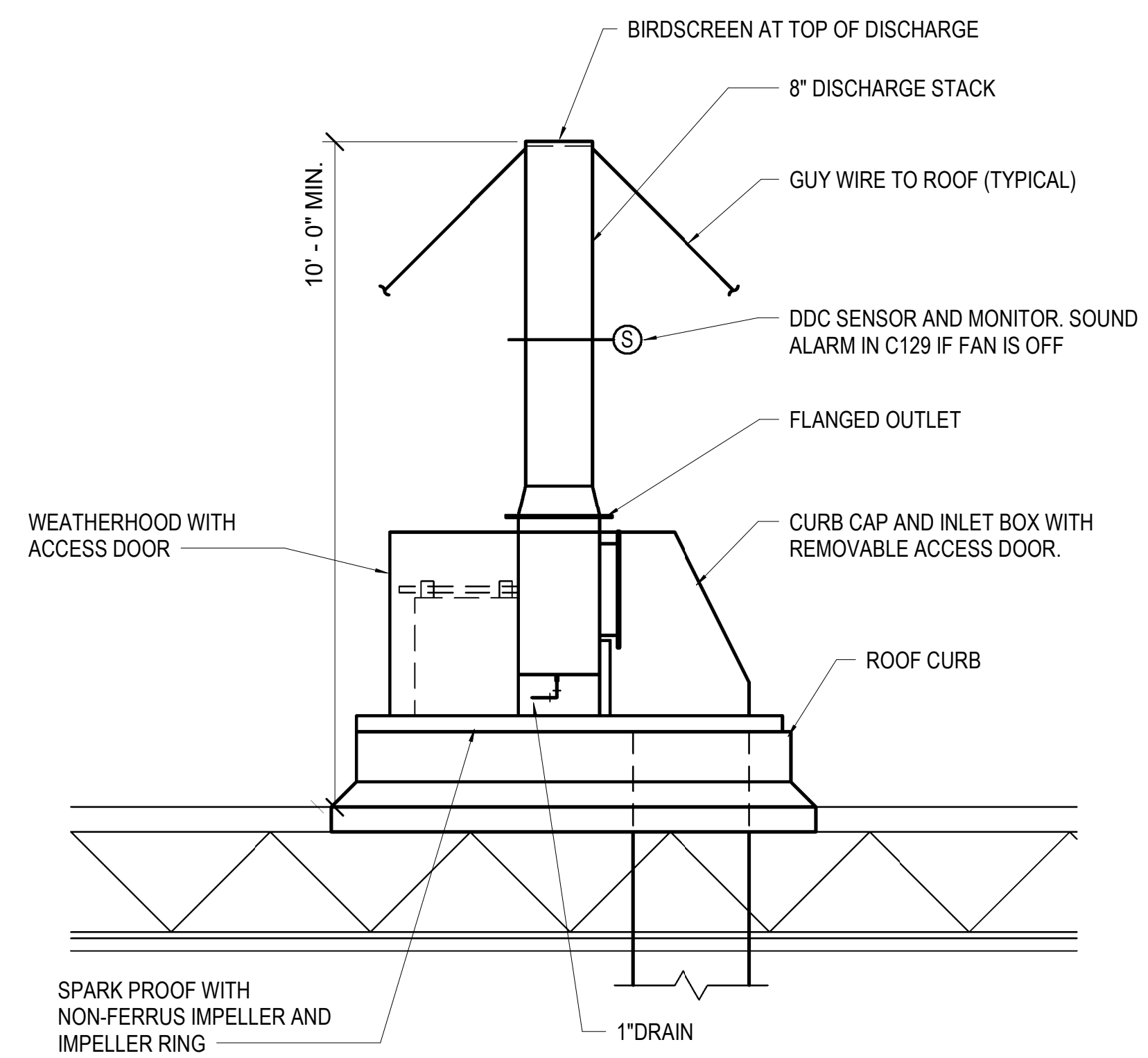


142 N. MOSELY ST  
WICHITA, KANSAS

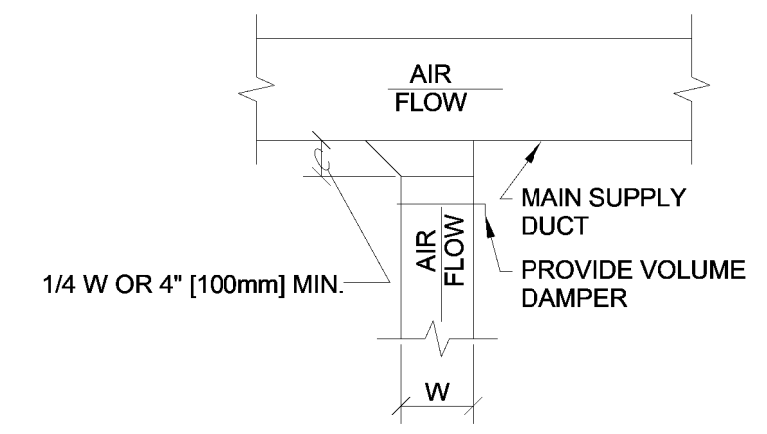
Drawing Title  
**MECHANICAL FLOOR PLANS**

Project Title <b>CONSTRUCT PHARMACY STERILE SOLUTIONS ROOMS B3</b>		
Location Robert J. Dole VA Medical Center WICHITA, KANSAS		
Date 02/09/18	Checked RMH	Drawn AR

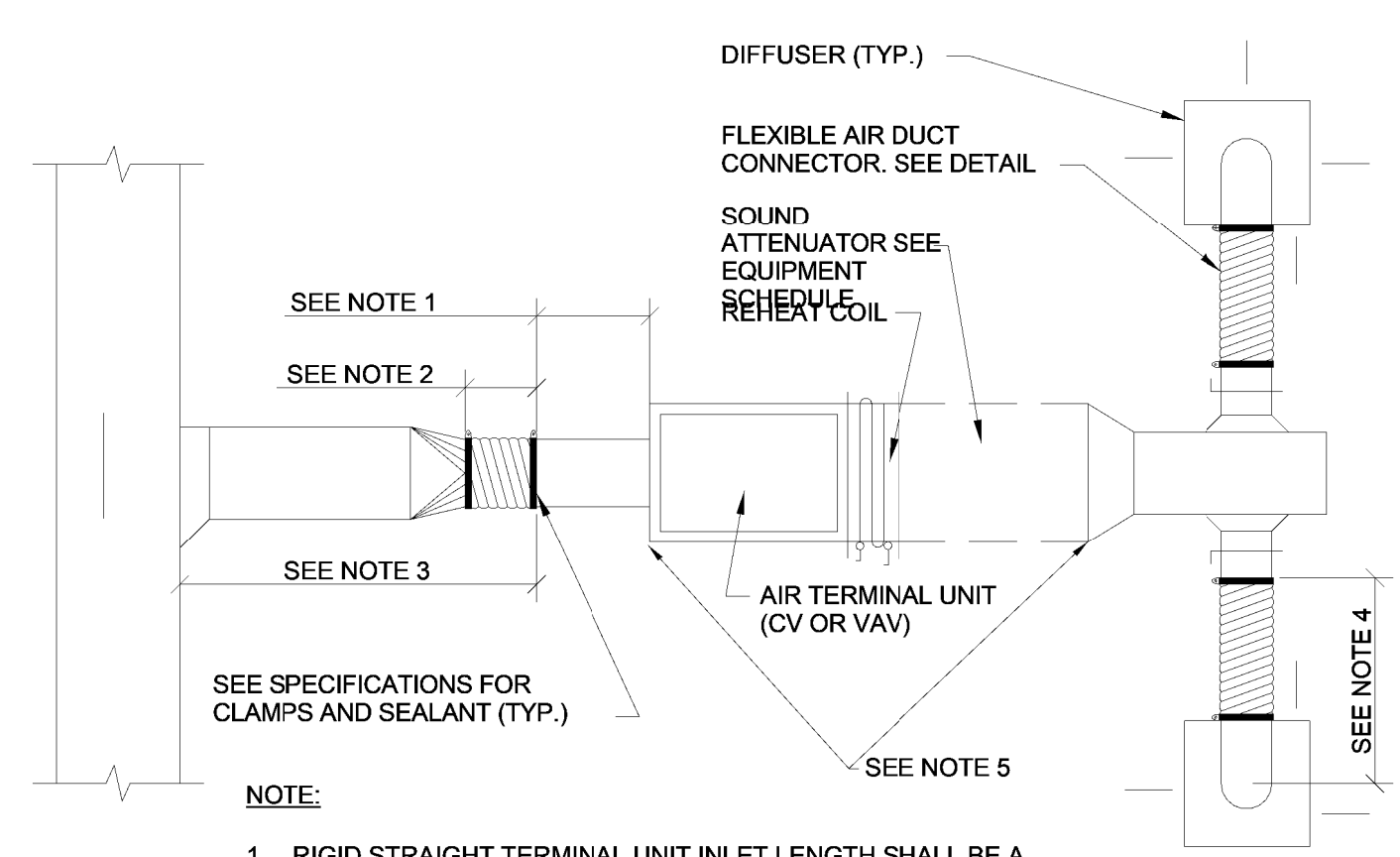
Project Number 589A7-17-181	Drawing Number <b>M-101</b>
Office of Construction and Facilities Management	
Department of Veterans Affairs	



2 EXHAUST STACK DETAIL  
NTS

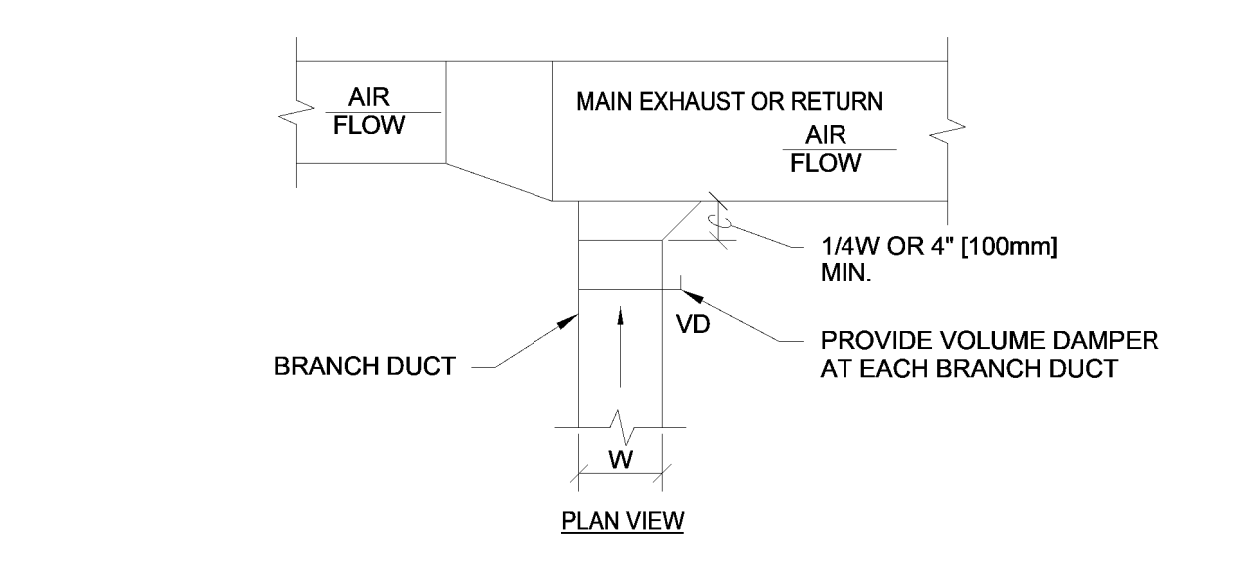


1 SUPPLY DUCTWORK TAKE-OFF  
NTS

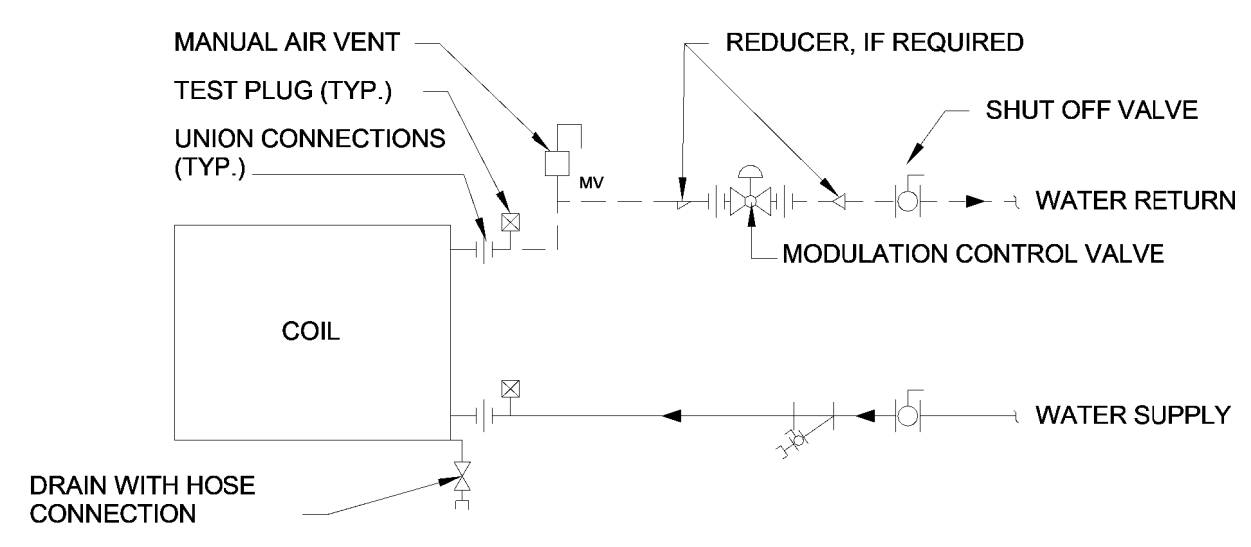


- NOTE:**
- RIGID STRAIGHT TERMINAL UNIT INLET LENGTH SHALL BE A MINIMUM OF 3 TIMES THE DIAMETER OF INLET.
  - A FLEXIBLE AIR DUCT CONNECTOR IS NOT MANDATORY FOR INLET TO THIS BOX, BUT ALLOWED TO ACCOMMODATE MINOR OFFSETS. MAXIMUM LENGTH 3'-0" (900mm).
  - A BRANCH DUCT SERVING AN INDIVIDUAL BOX MAY BE THE SAME SIZE AS THE BOX INLET, PROVIDED THE EQUIVALENT LENGTH OF THE BRANCH DUCT, AS SHOWN, DOES NOT EXCEED 10 FEET (3 METERS). FOR LONGER LENGTHS, INCREASE THE DUCT SIZE AND PROVIDE A DUCT TRANSITION TO MAINTAIN THE DUCT STATIC PRESSURE DROP AT OR BELOW 0.2"/100' (1.64Pa/m).
  - FLEXIBLE AIR DUCT CONNECTORS, WHEN USED FROM TERMINAL UNIT SUPPLY AIR DUCT TO DIFFUSER, SHALL NOT EXCEED 5'-0" (1500mm). USE RIGID ELBOWS FOR CHANGE OF DIRECTION GREATER THAN 45°.
  - COMPONENT ARRANGEMENT MAY VARY BY MANUFACTURER. PROVIDE INSULATION WVAPOR BARRIER FOR CONNECTING DUCT SECTIONS.
  - USE OF THE FLEXIBLE AIR DUCT CONNECTORS ARE NOT PERMITTED FOR THE DEDICATED AHU SERVING THE SURGICAL SUITE.

5 DUCT CONNECTIONS - AIR TERMINAL UNITS  
NTS



3 EXHAUST OR RETURN BRANCH DUCTWORK  
NTS



4 TERMINAL UNIT WATER COILS - PIPING CONNECTIONS  
NTS

MARK	TYPE	AIR FLOW		MAX APD		MOUNTING	PANEL/FRAME SIZE		NECK SIZE		NC	DAMPER	FINISH	REMARKS		
		CFM	[L/s]	CFM	[L/s]		IN WG	[Pa]	IN x IN	[mm x mm]					IN x IN	[mm x mm]
RC-22	RETURN REGISTER	110	[52]	170	[80]	0.088	22.000	CEILING	24 x 24	[600 x 600]	8" ø	[203 ø]	13	--	WHITE	1
RC-26	RETURN REGISTER	420	[200]	700	[330]	0.087	22.000	CEILING	24 x 24	[600 x 600]	16" ø	[406 ø]	16	ØBD	WHITE	1
RC-26a	RETURN REGISTER	420	[200]	700	[330]	0.087	22.000	CEILING	24 x 24	[600 x 600]	16" ø	[406 ø]	16	ØBD	WHITE	1, 2
RC-24	RETURN REGISTER	240	[110]	400	[190]	0.088	22.000	CEILING	24 x 24	[600 x 600]	12" ø	[305 ø]	12	ØBD	WHITE	1

**NOTE:**  
1. PROVIDE SQUARE TO ROUND ADAPTER.  
2. PROVIDE WITH HEPA FILTER.

MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	AIR FLOW		TSP		FAN							MOTOR ELECTRICAL				CONTROL SEQUENCE	REMARKS					
				CFM	[L/s]	IN	[Pa]	TYPE	WHEEL	CLASS	ARRANGEMENT, ROTATION, AND DISCHARGE	DIAMETER		MIN % EFF	DRIVE	FAN MAX RPM	NOMINAL POWER				VOLT	PHASE	RPM	SPEED CONTROL	
												IN	[mm]				BHP	HP							[kW]
3-EF1	BUILDING 29	BUILDING 3	EXHAUST	1,100	[31,148]	1.0	[129]	CENTRIFUGAL	BI	--	LABORATORY UPBLAST	12.25"	[312]	--	BELT	3274	0.92	1	0.75	208	1	1725	1	--	1

**REMARKS:**  
1.

**NOTE:**  
ALL SELECTIONS ARE BASED ON AN ALTITUDE OF 1287 FT.

MARK	LOCATION	AREA AND/OR ROOM SERVED	SYSTEM AIR HANDLING	SIZE	AIR FLOW		ADDITIONAL SOUND ATTENUATION REQUIRED	CONTROL TYPE	CONTROL SEQUENCE	REHEAT			REMARKS	
					MAX	MIN				HW	ELEC	NONE		
														CFM
3-TU-1-1	PHARMACY	BUILDING 3	(EX)3-AHU-1	F	600	--	600	--	CV	5 DEGREE DEADBAND	X	--	--	--

SIZE	MIN ALLOWABLE AIR FLOW	MAX ALLOWABLE AIR FLOW	DUCT INLET SIZE	MAX APD	MAXIMUM SOUND POWER LEVEL (Re: 10-12 WATTS) FOR BOX DISCHARGE AT MAXIMUM INLET DUCT STATIC							HOT WATER HEATING COIL						REMARKS							
					OCTAVE BANDS							EAT	EWT	FLOW		MAX WPD	PIPE RUNOUT SIZE TO COIL								
					2	3	4	5	6	7	8	"F	[°C]	"F	[°C]	GPM	[L/m]		FT	[kPa]	IN	[mm]			
A	60	28	170	80	4	100	0.4	100	67	63	55	51	48	41	55	13	180	82	0.5	1.9	3	9	0.75	19	MIN. 3.9 MBH
B	90	42	260	120	5	130	0.4	100	66	60	55	51	48	42	55	13	180	82	0.5	1.9	3	9	0.75	19	MIN. 4.9 MBH
C	130	61	380	180	6	150	0.4	100	64	62	58	55	50	44	55	13	180	82	0.7	2.7	4	12	0.75	19	MIN. 6.2 MBH
D	160	76	490	230	7	180	0.4	100	65	61	56	54	50	43	55	13	180	82	0.7	2.7	4	12	0.75	19	MIN. 7.7 MBH
E	230	110	680	320	8	200	0.4	100	68	64	57	54	50	43	55	13	180	82	1	3.8	3	9	0.75	19	MIN. 9.7 MBH
F	270	130	790	370	9	230	0.4	100	68	61	57	54	51	46	55	13	180	82	1.5	5.7	4	12	0.75	19	MIN. 12.6 MBH
G	350	170	1050	500	10	250	0.4	100	71	63	59	57	52	47	55	13	180	82	1.5	5.7	4	12	0.75	19	MIN. 14.1 MBH
H	500	240	1500	710	12	300	0.4	100	70	64	62	57	55	48	55	13	180	82	2.5	9.5	3	9	0.75	19	MIN. 20.5 MBH
I	750	350	2250	1100	14	350	0.4	100	67	60	60	54	51	45	55	13	180	82	3.5	13	4	12	0.75	19	MIN. 30.0 MBH
J	1000	470	3000	1400	16	400	0.4	100	69	63	62	57	55	49	55	13	180	82	4.5	17	4	12	1	25	MIN. 38.7 MBH

- NOTES:**
- INLET STATIC BASED ON ARI 885-88.
  - THIS SCHEDULE IS USED WITH THE TERMINAL UNIT SCHEDULE.
  - CONTROL SEQUENCE SHALL BE AS INDICATED ON THE AIR TERMINAL UNIT SCHEDULE.
  - PROVIDE SOUND ATTENUATION AFTER SECTION AS REQUIRED TO MEET ROOM NC LEVEL.

MARK	LOCATION	FAN SYSTEM	SYSTEM / SERVICE	DUCT SIZE		DUCT PRESSURE CLASS		REMARKS
				IN	[mm]	IN WG	[Pa]	
3-FD-1	BLDG 3/BLDG 29	3-EF1	EXHAUST	16x12	--	--	--	--

MARK	TYPE	UNIT SIZE	INLET SIZE	CFM		OP SP	NC RAD	FAN			REMARKS	CONTROL REF	ELEC REF
				MAX	MIN			CFM	ESP	HP			
3-FF1	--	--	--	660	450	--	--	--	--	--	--	--	--
3-FF2	--	--	--	660	500	--	--	--	--	--	--	--	--
3-FF3	--	--	--	660	200	--	--	--	--	--	--	--	--

**NOTE:**  
FAN FILTER UNITS TO BE PROVIDED BY MODULAR MANUFACTURER. TAB CONTRACTOR TO BALANCE FAN FILTER UNITS TO MINIMUM VALUES LISTED IN SCHEDULE.

No.	Description	Date

**CONSULTANTS:**

--



**ARCHITECT/ENGINEERS:**

**m::HFG** **PEC**

ARCHITECTURE

117 PIERCE ST, SUITE 110 SIOUX CITY, IOWA

142 N. MOSELY ST WICHITA, KANSAS

Drawing Title

**MECHANICAL DETAILS AND SCHEDULES**

Project Title  
**CONSTRUCT PHARMACY STERILE SOLUTIONS ROOMS B3**

Project Number  
**589A7-17-181**

Location  
Robert J. Dole VA Medical Center WICHITA, KANSAS

Drawing Number  
**M-501**

Date  
**02/09/18**

Checked  
**RMH**

Drawn  
**AR**

Office of Construction and Facilities Management

Department of Veterans Affairs



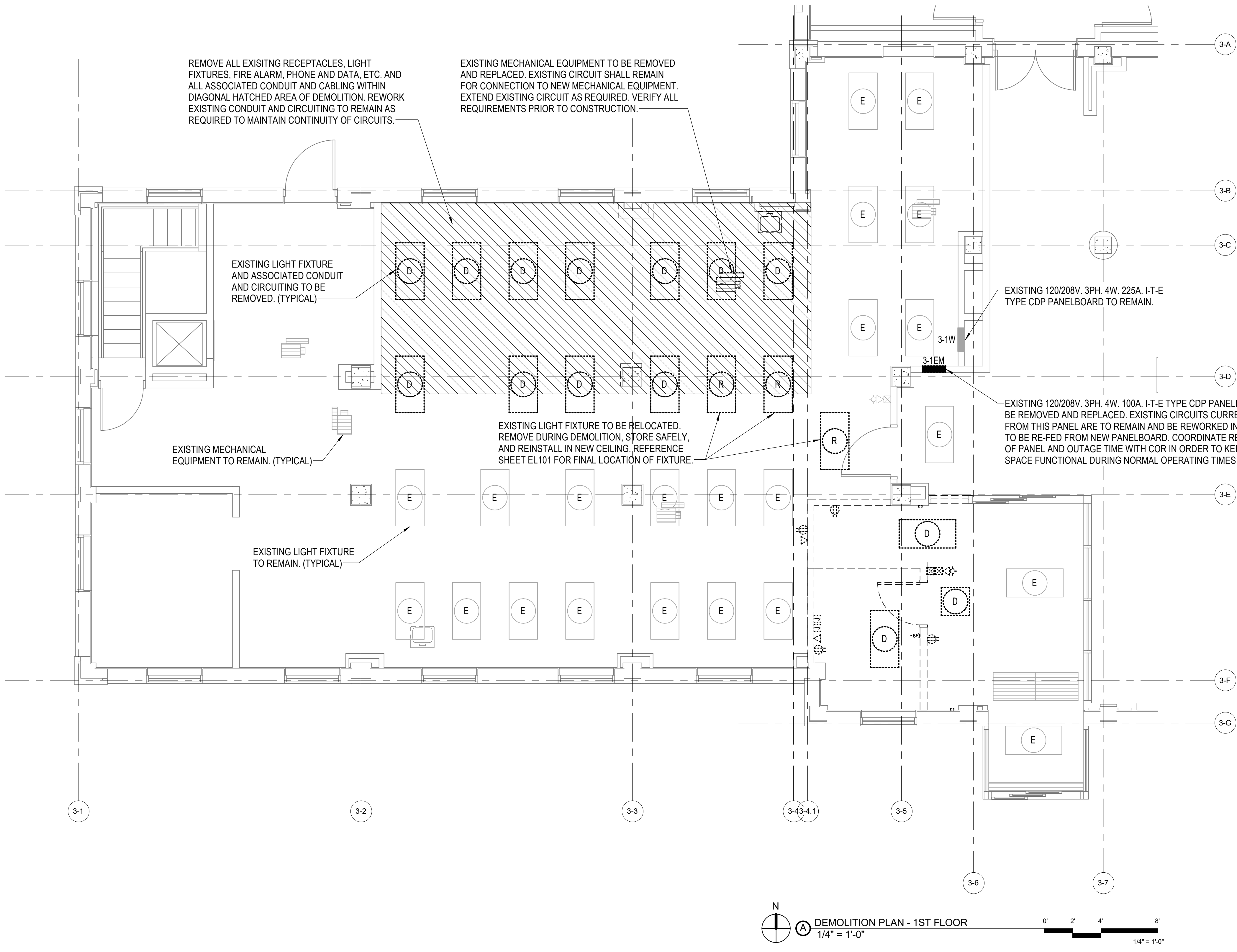




**DEMOLITION PLAN NOTES:**

- 1. DEMOLITION PLANS SHOW THE GENERAL EXTENT OF THE ELECTRICAL DEMOLITION WORK. THE ELECTRICAL CONTRACTOR SHALL DISCONNECT ELECTRICAL SERVICES TO ALL EQUIPMENT BEING REMOVED. SEE MECHANICAL PLANS. OWNER SHALL HAVE THE OPTION TO RETAIN REUSABLE ITEMS, SUCH AS COVERPLATES, RECEPTACLES, LIGHTS, PANELS, ETC. NOT BEING USED IN THE FINISHED WORK. COORDINATE WITH OWNER PRIOR TO STARTING DEMOLITION. PROPERLY AND LEGALLY DISPOSE OF ALL EQUIPMENT AND MATERIALS BEING REMOVED.
- 2. REMOVE ALL CONDUIT LEFT EXPOSED BY REMOVAL OF WALLS AND CEILINGS IN REMODELED AREAS. PLUG BOTH ENDS OF REMAINING CONDUIT IN WALL OR FLOOR WHERE CUT.
- 3. ELECTRICAL OUTLETS, ETC. POSSIBLY CONCEALED BY STORAGE SHELVING, CASEWORK, FURNITURE, ETC. ARE NOT SHOWN AND MAY REQUIRE REMOVAL.
- 4. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING ALL OPENINGS IN EXISTING CONSTRUCTION AFTER REMOVAL OF EQUIPMENT AND ELECTRICAL DEVICES, ETC.
- 5. WHERE EQUIPMENT AND OTHER DEVICES ARE BEING REMOVED, THE CIRCUITING SHALL BE REMOVED, IF POSSIBLE, BACK TO POINT OF SUPPLY. WHERE REQUIRED, CIRCUITING SHALL BE EXTENDED TO MAINTAIN CONTINUITY OF THE CIRCUIT OR OPERATION OF THE SYSTEM.
- 6. ALL DEVICES SHOWN DASHED ON THE DEMOLITION PLAN(S) SHALL BE REMOVED, UNLESS NOTED OTHERWISE.
- 7. PROVIDE MATCHING BLANK COVERPLATES WHERE DEVICES ARE BEING REMOVED FROM EXISTING WALLS TO REMAIN.
- 8. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO BEGINNING WORK.

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



N  
DEMOLITION PLAN - 1ST FLOOR  
1/4" = 1'-0"  
0 2 4 8  
1/4" = 1'-0"

No.	Description	Date

**CONSULTANTS:**

..



**ARCHITECT/ENGINEERS:**

**mHFG** **PEC**

**ARCHITECTURE**

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SIOUX CITY, IOWA

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WICHITA, KANSAS

Drawing Title

**PARTIAL ELECTRICAL DEMOLITION PLAN**

Project Title		Project Number	
CONSTRUCT PHARMACY STERILE SOLUTIONS ROOMS B3		589A7-17-181	
Location		Drawing Number	
Robert J. Dole VA Medical Center WICHITA, KANSAS		ED101	
Date	Checked	Drawn	
02/09/2018	BMW	JLW	

Office of Construction and Facilities Management

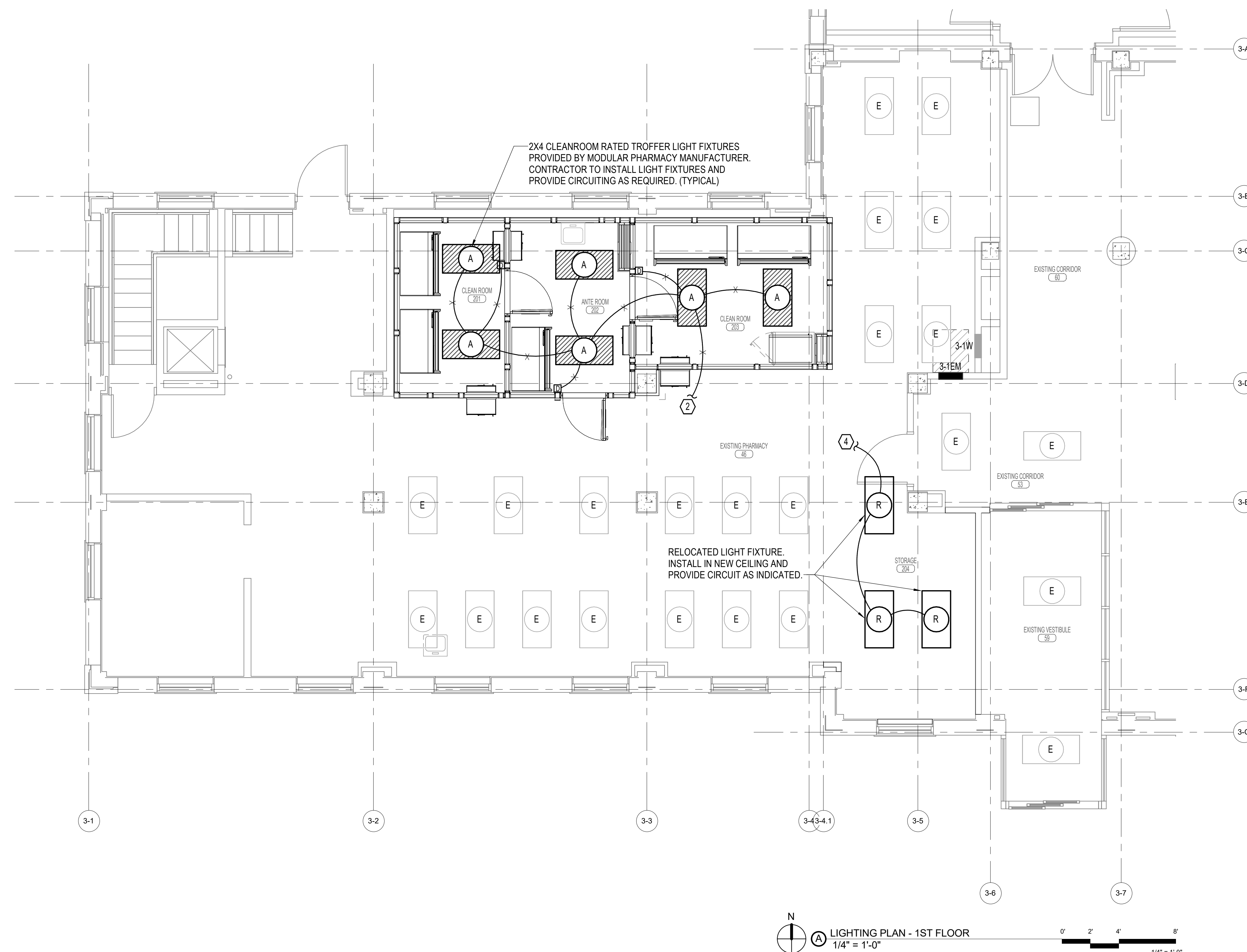
Department of Veterans Affairs

**LIGHTING PLAN NOTES:**

- BRANCH CIRCUITS ARE INDICATED AS ONE CIRCUIT HOME RUNS WITH INDIVIDUAL NEUTRALS. A MAXIMUM OF THREE CIRCUITS (MAXIMUM OF THREE PHASE CONDUCTORS) MAY BE GROUPED IN A SINGLE CONDUIT, WHERE MULTIPLE CIRCUITS ARE LOCATED IN THE SAME RACEWAY, JUNCTION BOX OR ENCLOSURE. NEUTRALS SHALL BE MARKED OR LABELED TO INDICATE WHICH CIRCUIT THEY ARE ASSOCIATED WITH. SEE SPECIFICATION SECTION "LOW VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES" FOR ADDITIONAL INFORMATION.
- A GROUND CONDUCTOR SIZED PER N.E.C. ARTICLE 250 IS REQUIRED IN ALL CONDUITS.
- ALL PENETRATIONS IN THE RATED WALLS AND CEILINGS SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASSES. THE SEALANT SHALL HAVE A T-RATING OF ONE HOUR.
- ALL PIPING, CONDUIT, AND OUTLET BOXES (ELECTRIC, TELEPHONE, COMPUTER, ETC.) IN THE RATED WALLS OR CEILING SHALL BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIAL.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LIGHT FIXTURE LOCATIONS. VERIFY ALL DISCREPANCIES WITH ARCHITECT PRIOR TO ROUGH-IN.

**# KEYED NOTES:**

- CONNECT TO NEAREST EXISTING CRITICAL POWER LIGHTING CIRCUIT AND CONTROLS SERVING THE EXISTING SPACE. EXTEND EXISTING CONDUIT AND CIRCUITING AS REQUIRED. VERIFY ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
- CONNECT TO NEAREST EXISTING NORMAL POWER LIGHTING CIRCUIT AND CONTROLS SERVING THE EXISTING SPACE. EXTEND EXISTING CONDUIT AND CIRCUITING AS REQUIRED. VERIFY ALL REQUIREMENTS PRIOR TO CONSTRUCTION.



N  
 LIGHTING PLAN - 1ST FLOOR  
 1/4" = 1'-0"  
 0' 2' 4' 8'  
 1/4" = 1'-0"

No.	Description	Date

**CONSULTANTS:**

--



**ARCHITECT/ENGINEERS:**

**m:hfg** **PEC**  
**ARCHITECTURE**  
 117 PIERCE ST. SUITE 110  
 SIOUX CITY, IOWA  
 142 N. MOSELY ST  
 WICHITA, KANSAS

**Drawing Title**

**PARTIAL ELECTRICAL LIGHTING PLAN**

<b>Project Title</b> CONSTRUCT PHARMACY STERILE SOLUTIONS ROOMS B3		<b>Project Number</b> 589A7-17-181	
<b>Location</b> Robert J. Dole VA Medical Center WICHITA, KANSAS		<b>Drawing Number</b> EL101	
<b>Date</b> 02/09/2018	<b>Checked</b> BMW	<b>Drawn</b> JLW	

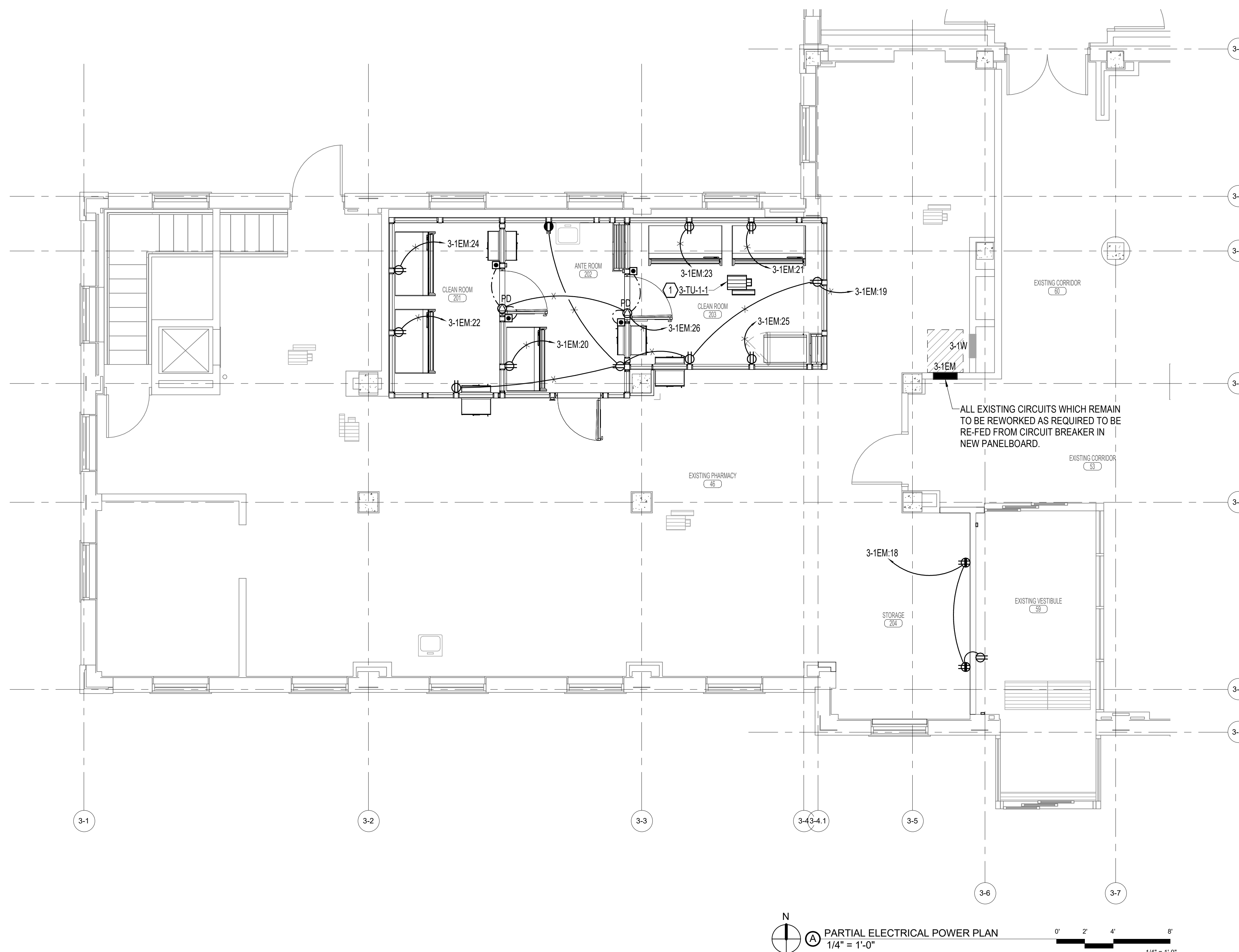
Office of  
 Construction  
 and Facilities  
 Management  
 Department of  
 Veterans Affairs

**POWER PLAN NOTES:**

- BRANCH CIRCUITS ARE INDICATED AS ONE CIRCUIT HOME RUNS WITH INDIVIDUAL NEUTRALS. A MAXIMUM OF THREE CIRCUITS (MAXIMUM OF THREE PHASE CONDUCTORS) MAY BE GROUPED IN A SINGLE CONDUIT. WHERE MULTIPLE CIRCUITS ARE LOCATED IN THE SAME RACEWAY, JUNCTION BOX OR ENCLOSURE, NEUTRALS SHALL BE MARKED OR LABELED TO INDICATE WHICH CIRCUIT THEY ARE ASSOCIATED WITH. SEE SPECIFICATION SECTION "LOW VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES" FOR ADDITIONAL INFORMATION.
- A GROUND CONDUCTOR SIZED PER N.E.C. ARTICLE 250 IS REQUIRED IN ALL CONDUITS.
- FOR CONNECTION REQUIREMENTS TO MECHANICAL UNITS, SEE MECHANICAL EQUIPMENT CONNECTION SCHEDULE.
- ALL PENETRATIONS IN THE RATED WALLS AND CEILINGS SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASSES. THE SEALANT SHALL HAVE A T-RATING OF ONE HOUR.
- ALL PIPING, CONDUIT, AND OUTLET BOXES (ELECTRIC, TELEPHONE, COMPUTER, ETC.) IN THE RATED WALLS OR CEILING SHALL BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIAL.
- OUTLET BOXES (ELECTRIC, TELEPHONE, COMPUTER, ETC.) SHALL BE LIMITED TO TWO OUTLET BOXES PER STUD SPACE. OUTLET BOXES ON OPPOSITE SIDES OF THE RATED WALLS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF 24 INCHES.

**KEYED NOTES:**

- CONNECT MECHANICAL EQUIPMENT TO EXISTING CIRCUIT. EXTEND EXISTING CIRCUIT AS REQUIRED. VERIFY ALL REQUIREMENTS PRIOR TO CONSTRUCTION.



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

No.	Description	Date
Revisions:		Date

**CONSULTANTS:**

--



ARCHITECT/ENGINEERS:

**mHFG** **PEC**

**ARCHITECTURE**

117 PIERCE ST, SUITE 110  
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142 N. MOSELY ST  
WICHITA, KANSAS

Drawing Title

**PARTIAL ELECTRICAL POWER PLAN**

Project Title			Project Number		
CONSTRUCT PHARMACY STERILE SOLUTIONS ROOMS B3			589A7-17-181		
Location			Drawing Number		
Robert J. Dole VA Medical Center WICHITA, KANSAS			EP101		
Date	Checked	Drawn			
02/09/2018	BMW	JLW			

Office of Construction and Facilities Management

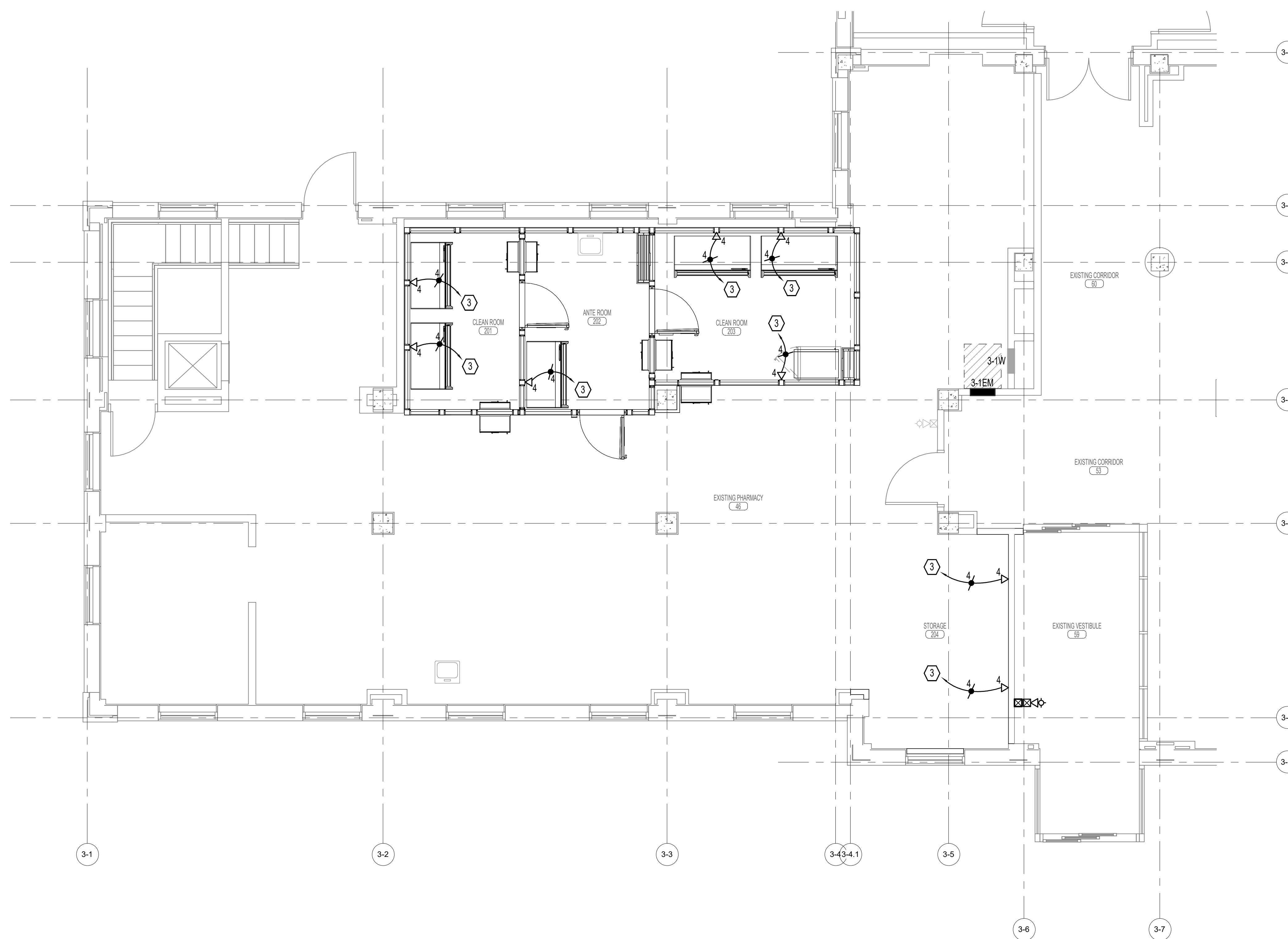
Department of Veterans Affairs

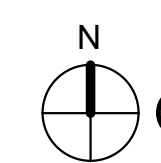

SYSTEMS PLAN NOTES:

- ALL PENETRATIONS IN THE RATED WALLS AND CEILING SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASSES. THE SEALANT SHALL HAVE A T-RATING OF ONE HOUR.
- ALL PIPING, CONDUIT, AND OUTLET BOXES (ELECTRIC, TELEPHONE, COMPUTER, ETC.) IN THE RATED WALLS OR CEILING SHALL BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIAL.
- OUTLET BOXES (ELECTRIC, TELEPHONE, COMPUTER, ETC.) SHALL BE LIMITED TO TWO OUTLET BOXES PER STUD SPACE. OUTLET BOXES ON OPPOSITE SIDES OF THE RATED WALLS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF 24 INCHES.
- WHERE THE SAME DEVICE IS SHOWN IN THE SAME LOCATION ON BOTH THE POWER AND SYSTEMS PLAN, ONLY ONE DEVICE IS REQUIRED. PROVIDE BOTH POWER AND SYSTEMS WIRING AS SHOWN.
- THE FIRE ALARM SYSTEM SHOWN HAS BEEN DESIGNED PER THE REQUIREMENTS OF NFPA 72, 2007 EDITION. DEVICES SHOWN INDICATE THE DESIGN INTENT AND SHALL BE THE MINIMUM PROVIDED. SYSTEM SUPPLIER SHALL PROVIDE ANY ADDITIONAL CODE REQUIRED DEVICES OR DEVICES REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

# KEYED NOTES:

- ROUTE CAT 6 DATA CABLING TO DATA PATCH PANEL IN NEAREST EXISTING TELECOM CLOSET. COORDINATE WITH COR.




 SYSTEMS PLAN - 1ST FLOOR  
 1/4" = 1'-0"
 
 1/4" = 1'-0"

No.	Description	Date
Revisions:		Date

CONSULTANTS:

--



ARCHITECT/ENGINEERS:



Drawing Title

PARTIAL ELECTRICAL SYSTEMS PLAN

Project Title

CONSTRUCT PHARMACY STERILE SOLUTIONS ROOMS B3

Project Number

589A7-17-181

Location

Robert J. Dole VA Medical Center WICHITA, KANSAS

Drawing Number

EY101

Date

02/09/2018

Checked

BMW

Drawn

JLW

Office of Construction and Facilities Management

