

PHASING LEGEND

- PHASE 1 LIMITS
- PHASE 2 LIMITS
- PHASE 3 LIMITS
- PHASE 4 LIMITS

LEGEND

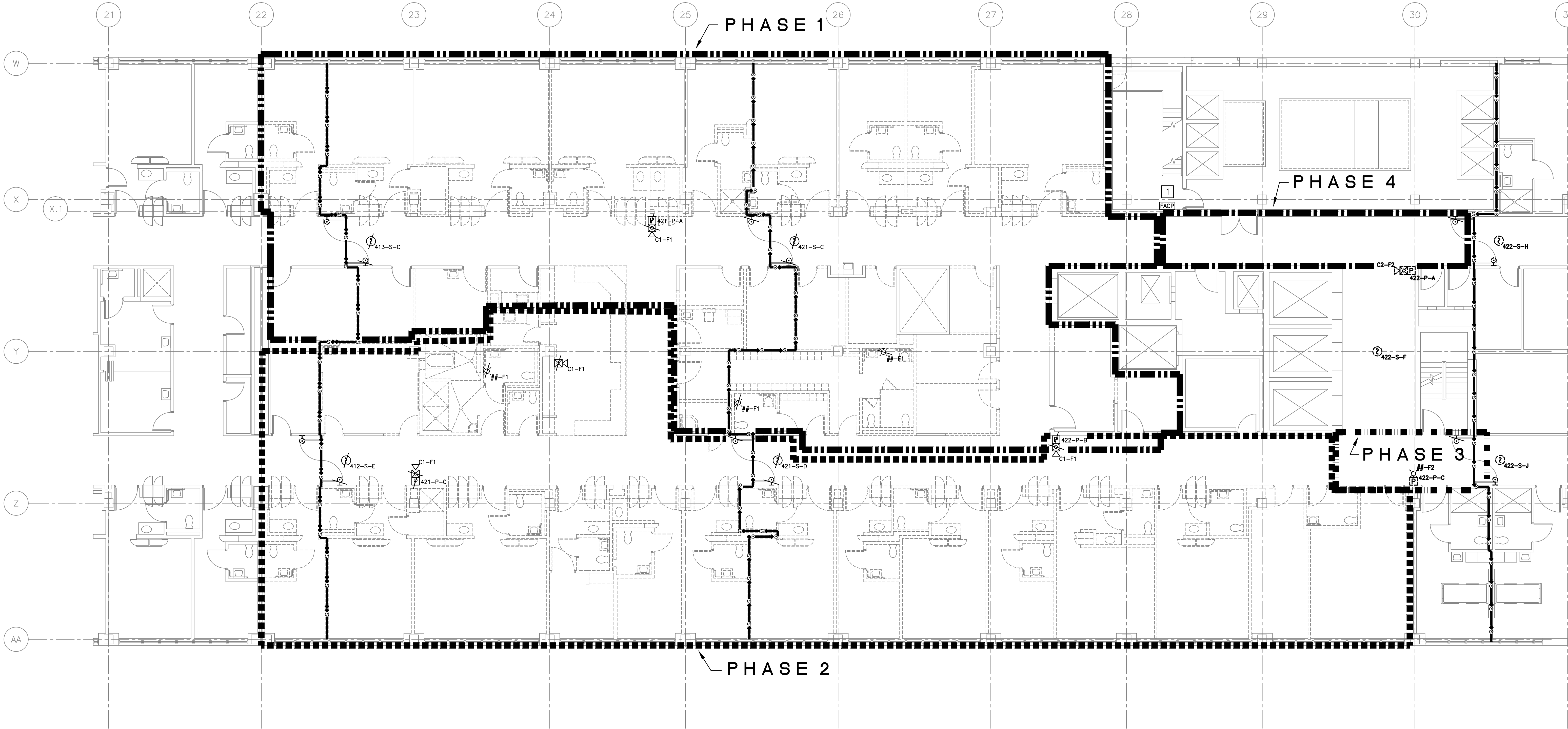
- WALL MOUNTED SPEAKER/STROBE (TO BE DEMOLISHED)
- WALL MOUNTED STROBE (TO BE DEMOLISHED)
- MANUAL PULL STATION (TO BE DEMOLISHED)
- SMOKE DETECTOR (EXISTING TO REMAIN)
- MANUAL PULL STATION (EXISTING TO REMAIN)
- FIRE ALARM SYSTEM SLC DEVICE NAMING
- FIRE ALARM SYSTEM NAC DEVICE NAMING
- DOOR HOLD OPEN (EXISTING TO REMAIN)
- FIRE ALARM CONTROL PANEL
- ONE HOUR FIRE AND SMOKE BARRIER
- TWO HOUR FIRE AND SMOKE BARRIER

GENERAL NOTES



- EXISTING TO REMAIN DEVICES WITHIN THE WORK AREA SHALL BE REMOVED AND REINSTALLED ONCE NEW WALL/CEILING IS INSTALLED, OR PROTECTED DURING CONSTRUCTION. EXISTING TO REMAIN DEVICES MAY BE REUSED OR NEW DEVICES MAY BE PROVIDED.
- DEMOLITION WORK IS TO BE COMPLETED IN PHASES AS INDICATED BY PHASING LIMITS. WHEN FIRE PROTECTION SYSTEMS ARE DISRUPTED, ENSURE PROCEDURES ARE INCORPORATED TO MAINTAIN EQUIVALENT LEVELS OF FIRE PROTECTION AND PROVIDE FORMAL NOTIFICATION TO THE FACILITY WHEN SYSTEMS ARE DOWN.

SHEET NOTES

- 1 FACP 2552 SERVES ALL FIRE ALARM DEVICES WITHIN THE WORK AREA.



FOURTH FLOOR PLAN - AREA 4C - FIRE ALARM DEMOLITION PLAN  
SCALE: 1/8"=1'-0"

		CONSULTANTS:		ARCHITECT/ENGINEERS:  McEntire Design ARCHITECTS  1001 WEST WASHINGTON STREET SUFFOLK VIRGINIA 23434 phone 757-923-9800 fax 757-923-9830	Drawing Title	Project Title	Project Number	Office of Construction and Facilities Management	
					FOURTH FLOOR PLAN - AREA 4C - FIRE ALARM DEMOLITION PLAN	IMPROVE PATIENT PRIVACY AREA 4C	652-13-103		
					Approved Project Director	Location	Building Number	Drawing Number  <b>500-F-001</b>  Dwg. 23 of 64	
						1201 BROAD ROCK BLVD., RICHMOND VA 23249	500		
						Date	Checked		Drawn
						DECEMBER 16, 2014	AJW		HDS
Revisions:	Date							 Department of Veterans Affairs	

PHASING LEGEND

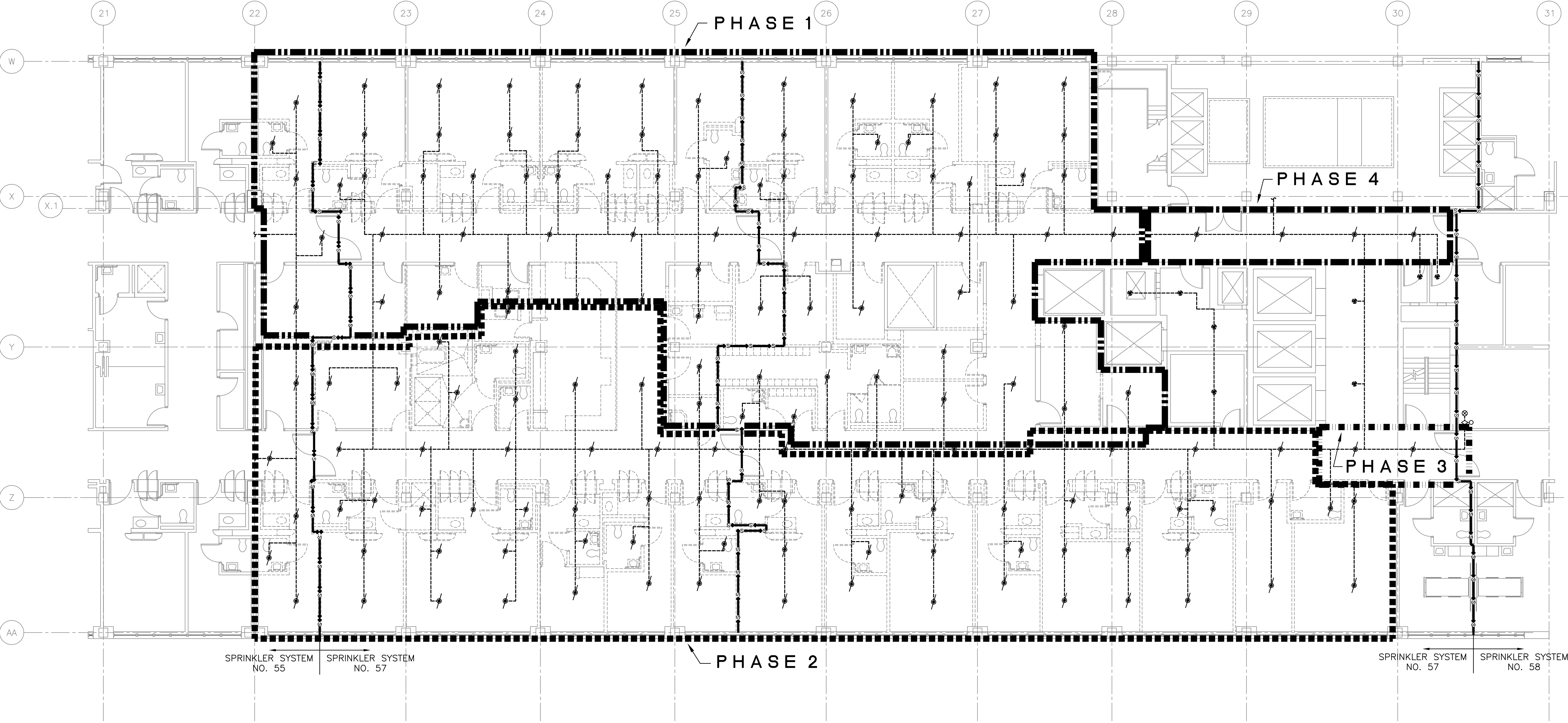
- PHASE 1 LIMITS
- PHASE 2 LIMITS
- PHASE 3 LIMITS
- PHASE 4 LIMITS

LEGEND


- RECESSED PENDANT SPRINKLER (EXISTING TO REMAIN)
- RECESSED PENDANT SPRINKLER (TO BE DEMOLISHED)
- SPRINKLER PIPE (EXISTING)
- SPRINKLER PIPE (TO BE DEMOLISHED)
- UPRIGHT SPRINKLER
- RISER
- WATERFLOW SWITCH
- ONE HOUR FIRE AND SMOKE BARRIER
- TWO HOUR FIRE AND SMOKE BARRIER

GENERAL NOTES

- DEMOLISH EXISTING SPRINKLERS. RECONFIGURE EXISTING PIPING TO SERVE NEW SPRINKLER LAYOUT.
- DEMOLITION WORK IS TO BE COMPLETED IN PHASES AS INDICATED BY PHASING LIMITS. WHEN FIRE PROTECTION SYSTEMS ARE DISRUPTED, ENSURE PROCEDURES ARE INCORPORATED TO MAINTAIN EQUIVALENT LEVELS OF FIRE PROTECTION AND PROVIDE FORMAL NOTIFICATION TO THE FACILITY WHEN SYSTEMS ARE DOWN.



FOURTH FLOOR PLAN - AREA 4C - FIRE SUPPRESSION DEMOLITION PLAN  
SCALE: 1/8"=1'-0"

		CONSULTANTS:		<div></div>		ARCHITECT/ENGINEERS: <div><div>McEntire Design ARCHITECTS</div><div>1001 WEST WASHINGTON STREET SUFFOLK VIRGINIA 23434 phone 757-923-9800 fax 757-923-9830</div></div>		Drawing Title		Project Title		Project Number		Office of Construction and Facilities Management	
								FOURTH FLOOR PLAN - AREA 4C - FIRE SUPPRESSION DEMOLITION PLAN		IMPROVE PATIENT PRIVACY AREA 4C		652-13-103			
								Approved: Project Director		Location		Building Number			
										1201 BROAD ROCK BLVD., RICHMOND VA 23249		500			
										Drawing Number					
Revisions:		Date				Date		Checked		Drawn		500-F-002		Department of Veterans Affairs	
						DECEMBER 16, 2014		AJW		HDS		Dwg. 24 of 64			

FIRE ALARM GENERAL NOTES

GENERAL SCOPE – MODIFY EXISTING FIRE ALARM SYSTEM AS INDICATED DUE TO RENOVATION AND RECONFIGURATION IN WORK AREAS. COORDINATE FIRE ALARM INSTALLATION AND DEMOLITION WITH PHASING PLAN PER SHEET 500–9I–003.

1. APPLICABLE CODES:

- VA

DEPARTMENT OF VETERANS AFFAIRS (VA) FIRE PROTECTION DESIGN MANUAL, SIXTH EDITION, ISSUED SEPTEMBER 2011.
- NFPA 72

NATIONAL FIRE ALARM CODE, 2010 EDITION.
- NFPA 70

NATIONAL ELECTRIC CODE, 2011 EDITION.
- NFPA 101

LIFE SAFETY CODE, 2009 EDITION.

2. REFER TO SPECIFICATION 283100 FOR ADDITIONAL INFORMATION. IF A CONFLICT OCCURS, THE MORE STRINGENT REQUIREMENT SHALL APPLY.

3. NOTIFICATION: PROVIDE PRIVATE MODE STAFF RESPONSE EVACUATION OF THE ZONE OF ALARM ORIGIN ONLY IN ACCORDANCE WITH NFPA 72 AND VA.

AUDIBLE SIGNAL SHALL CONFORM TO ANSI S3.41 AUDIBLE EMERGENCY EVACUATION SIGNAL (I.E., TEMPORAL THREE PATTERN) [VA 7.3.F.2].

SOUND PRESSURE LEVEL FROM AUDIBLE ALARM APPLIANCES SHALL NOT EXCEED 110 DBA IN ANY OCCUPIED AREA [NFPA 72 7.4.1.2]. AND SHALL BE DESIGNED TO REINITIATE MODE OPERATING REQUIREMENTS.

4. ALL NEW CONDUIT AND BACK BOXES SHALL BE CONCEALED IN FINISHED SPACES UNLESS OTHERWISE NOTED.

5. ALL CIRCUIT WIRING SHALL BE CLASS B.

6. ALL SYSTEM POWER AND GROUND CIRCUITS SHALL BE TYPE "THHN" SOLID COPPER SIZED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS AND THE APPLICABLE CODES AND BE INSTALLED IN EMT TYPE CONDUIT.

7. ALL WIRING, CABLES, BOXES, TROUGHS AND OTHER RELATED EQUIPMENT SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE (NEC).

8. SECONDARY POWER SUPPLY SHALL BE VIA DEDICATED FIRE ALARM BATTERIES CAPABLE OF OPERATING THE SYSTEM ON STANDBY FOR 24 HOURS FOLLOWED BY 5 MINUTES WITH THE SYSTEM AT FULL CAPACITY [NFPA 72 4.4.1.5.3.1]. CHARGING AND METERING SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 72.

9. PERFORM TESTING IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND NFPA 72.

10. INCLUDE THE SYSTEM WIRING, RACEWAYS, PULL BOXES, TERMINAL CABINETS, OUTLET AND MOUNTING BOXES, CONTROL EQUIPMENT, ALARM, AND SUPERVISORY SIGNAL INITIATING DEVICES, ALARM NOTIFICATION APPLIANCES, AND OTHER ACCESSORIES AND MISCELLANEOUS ITEMS REQUIRED FOR A COMPLETE OPERATING SYSTEM EVEN THOUGH EACH ITEM IS NOT SPECIFICALLY MENTIONED OR DESCRIBED. PROVIDE SYSTEM(S) COMPLETE AND READY FOR OPERATION.

11. PROVIDE EQUIPMENT MATERIALS, INSTALLATION, WORKMANSHIP, INSPECTION, AND TESTING IN STRICT ACCORDANCE WITH THE REQUIRED AND ADVISORY PROVISIONS OF NFPA 72, ISO 7240–16, IEC 60268–16, EXCEPT AS MODIFIED HEREIN. THE SYSTEM LAYOUT ON THE DRAWINGS SHOWS THE INTENT OF COVERAGE AND DEVICE/APPLIANCES ARE SHOWN IN SUGGESTED LOCATIONS. SUBMIT SHOP DRAWINGS SHOWING DEVICE LOCATIONS, TERMINAL CABINET LOCATIONS, JUNCTION BOXES, OTHER RELATED EQUIPMENT, CONDUIT ROUTING, WIRE COUNTS, CIRCUIT IDENTIFICATION IN EACH CONDUIT, AND CIRCUIT LAYOUTS FOR ALL FLOORS. DRAWINGS SHALL COMPLY WITH THE REQUIREMENTS OF NFPA 170. FINAL QUALITY, SYSTEM LAYOUT, AND COORDINATION ARE THE RESPONSABILITY OF THE CONTRACTOR.

FIRE ALARM DEMOLITION NOTES

1. MINIMIZE DISRUPTIONS TO FIRE ALARM SYSTEMS. IF FIRE ALARM SYSTEM ARE TO BE DISRUPTED, ENSURE PROCEDURES ARE INCORPORATED TO MAINTAIN EQUIVALENT LEVELS OF FIRE PROTECTION AND PROVIDE FORMAL NOTIFICATION TO THE FACILITY WHILE SYSTEMS ARE DOWN.

2. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL PARTS, MATERIALS AND PROGRAMMING TO MAINTAIN SYSTEM OPERABILITY.

3. NEW DEVICES INSTALLED BUT NOT YET IN SERVICE SHALL BE TAGGED "NOT IN SERVICE." UPON ACCEPTANCE OF NEW FIRE FIRE ALARM SYSTEM TAGS SHALL BE REMOVED.

4. ANY EXISTING SYSTEM DEVICES TAKEN OUT OF SERVICE SHALL BE TAGGED "NOT IN SERVICE."

5. UNUSED DEVICES, WIRE AND CONDUIT SHALL BE DEMOLISHED. REPAIR ANY SURFACES DAMAGED BY FIRE ALARM DEMOLITION.

6. EXISTING WIRE AND CONDUIT MAY BE REUSED.

FIRE ALARM INPUT		OPERATION							
		ACTIVATE FA EVACUATION THROUGHOUT BUILDING	ALARM CONDITION AT FACU	SUPERVISORY CONDITION AT FACU	TRouble CONDITION AT FACU	TRANSMIT SIGNAL TO REMOTE STATION	SHUT DOWN ASSOCIATED AHU	CLOSE ASSOCIATED HVAC DAMPERS	RELEASE ACCESS CONTROL POINTS (E.G., MAG LOCKS)
MANUAL PULL STATION		●	●			●			●
SMOKE DETECTOR		●	●			●			●
DUCT DETECTOR				●			●	●	
AUTOMATIC SPRINKLER SYSTEM FLOW SWITCH		●	●			●			●
AUTOMATIC SPRINKLER SYSTEM TAMPER SWITCH				●		●			
FACU CIRCUIT FAULT (OPEN, GROUND, SHORT)					●	●			
OTHER TROUBLE CONDITION					●	●			
PRIMARY AC POWER LOSS					●	●			

FIRE ALARM INPUT-OUTPUT MATRIX

NO SCALE

FA-001

1

CONSULTANTS:

ARCHITECT/ENGINEERS:

Drawing Title

FIRE ALARM GENERAL NOTES

Approved Project Director

Project Title

IMPROVE PATIENT  
PRIVACY AREA 4C

Location

1201 BROAD ROCK BLVD., RICHMOND VA 23249

Date

DECEMBER 16, 2014

Checked

AJW

Drawn

HDS

Project Number

652–13–103

Building Number

500

Drawing Number

500-FA001

Dwg. 25 of 64

Office of  
Construction  
and Facilities  
Management














Department of  
Veterans Affairs



## PHASING LEGEND

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- Figure 1 is a schematic representation of the four phases of the study. It consists of four horizontal bars, each representing a phase. Each bar is divided into segments of different lengths and patterns, representing the sequence of trials. The phases are labeled as follows:
- PHASE 1 LIMITS:** The first bar, showing a sequence of trials with varying lengths and patterns.
  - PHASE 2 LIMITS:** The second bar, showing a sequence of trials with varying lengths and patterns.
  - PHASE 3 LIMITS:** The third bar, showing a sequence of trials with varying lengths and patterns.
  - PHASE 4 LIMITS:** The fourth bar, showing a sequence of trials with varying lengths and patterns.

## LEGEND

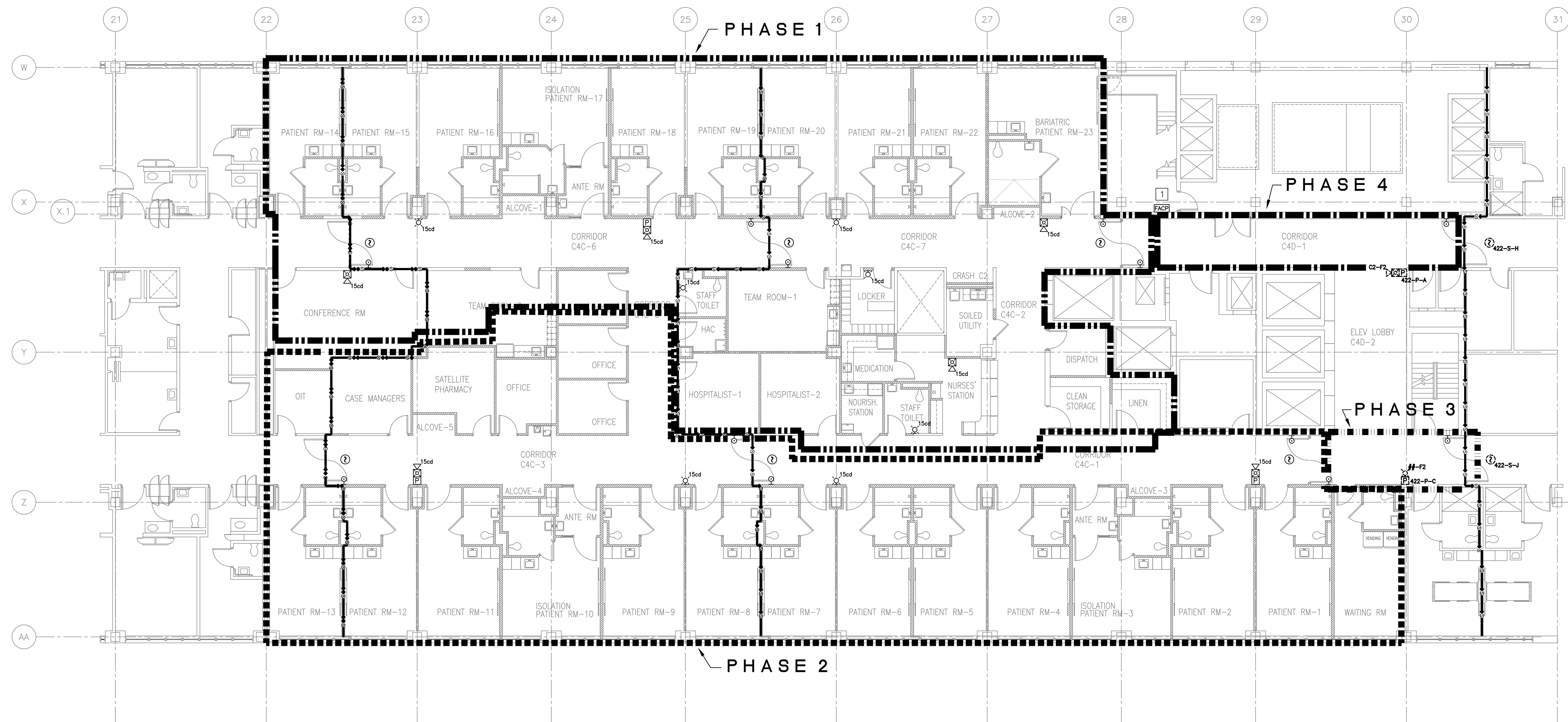
- |   |  |
|---|--|
|  | WALL MOUNTED SPEAKER/STROBE              |
|  | WALL MOUNTED STROBE                      |
|  | MANUAL PULL STATION                      |
|  | SMOKE DETECTOR                           |
|  | DOOR HOLD OPEN                           |
|  | ONE HOUR FIRE AND SMOKE BARRIER          |
|  | TWO HOUR FIRE AND SMOKE BARRIER          |
|  | SMOKE DETECTOR (EXISTING TO REMAIN)      |
|  | MANUAL PULL STATION (EXISTING TO REMAIN) |
|  | FIRE ALARM SYSTEM SLC DEVICE NAMING      |
|  | FIRE ALARM SYSTEM NAC DEVICE NAMING      |
|  | DOOR HOLD OPEN (EXISTING TO REMAIN)      |
|  | FIRE ALARM CONTROL PANEL                 |

## GENERAL NOTES

1. EXISTING TO REMAIN DEVICES WITHIN THE WORK AREA SHALL BE REMOVED AND REINSTALLED ONCE NEW WALL/CEILING IS INSTALLED, OR PROTECTED DURING CONSTRUCTION. EXISTING TO REMAIN DEVICES MAY BE REUSED OR NEW DEVICES MAY BE PROVIDED.
2. PROVIDE SMOKE DETECTORS BOTH SIDES OF CORRIDOR SMOKE BARRIER DOORS.
3. NEW WORK IS TO BE COMPLETED IN PHASES AS INDICATED BY PHASING LIMITS. WHEN FIRE PROTECTION SYSTEMS ARE DISRUPTED, ENSURE PROCEDURES ARE INCORPORATED TO MAINTAIN EQUIVALENT LEVELS OF FIRE PROTECTION AND PROVIDE FORMAL NOTIFICATION TO THE FACILITY WHEN SYSTEMS ARE DOWN.

## SHEET NOTES

- 1 FACP 2552 SERVES ALL FIRE ALARM DEVICES WITHIN THE WORK AREA.



**FOURTH FLOOR PLAN - AREA 4C - FIRE ALARM PLAN**  
SCALE: 1/8"=1'-0"

[illegible]

FIRE SPRINKLER GENERAL NOTES

GENERAL SCOPE – ALTER EXISTING WET PIPE SPRINKLER PROTECTION THROUGHOUT THE WORK AREA IN ACCORDANCE WITH APPLICABLE CODES LISTED BELOW AND AS INDICATED ON CONTRACT DRAWINGS.

1. APPLICABLE CODES:


- VA

DEPARTMENT OF VETERANS AFFAIRS FIRE PROTECTION DESIGN MANUAL, SIXTH EDITION, ISSUED SEPTEMBER 2011.
- NFPA 13

INSTALLATION OF SPRINKLER SYSTEMS, 2013 EDITION.
- NFPA 101

LIFE SAFETY CODE, 2012 EDITION.

2. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION. IF A CONFLICT OCCURS, THE MORE STRINGENT REQUIREMENT SHALL APPLY.
3. WET PIPE SPRINKLER PIPE SHALL BE U.L. LISTED BLACK STEEL, MINIMUM SCHEDULE 40. FOR ALL PIPE DIAMETERS EXCEPT WHERE A WATER QUALITY EVALUATION HAS BEEN DONE PERTAINING TO CORROSION. IF THE WATER QUALITY PERMITS, SCHEDULE 10 STEEL PIPING MAY BE USED FOR PIPE DIAMETERS NOMINALLY GREATER THAN 2 INCHES.
4. ALL AREAS ARE LIGHT HAZARD UNLESS OTHERWISE INDICATED ON CONTRACT DRAWINGS.
5. QUICK RESPONSE SPRINKLERS SHALL BE UTILIZED THROUGHOUT [VA 6.1.J].
6. PERFORM TESTING IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND NFPA 13.
7. PROVIDE SIX SPARE SPRINKLERS OF EACH TYPE USED AND SPARE SPRINKLER CABINET AND REQUIRED WRENCHES. INSTALL IN APPROVED LOCATION.
8. IDENTIFICATION SIGNS SHALL BE PROVIDED ON CEILINGS OR AREAS WHERE SPRINKLER CONTROL VALVES, SECTIONAL VALVES, INSPECTOR TEST VALVES, TAMPER VALVES, AND ALL OTHER RELATED SPRINKLER COMPONENTS ARE CONCEALED FROM VIEW.
9. THESE DRAWINGS DEMONSTRATE THE CONFIGURATION OF MAJOR SYSTEM COMPONENTS. THEY ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO SHOW EXACT LOCATIONS. PIPE LENGTHS AND ELEVATIONS INDICATED ON THE DRAWINGS (IF SHOWN) ARE APPROXIMATE. COORDINATE FINAL INSTALLATION WITH ACTUAL FIELD CONDITIONS AND OTHER CONSTRUCTION TRADES.
10. RUN SPRINKLER PIPING TIGHT TO THE CEILING.

		CONSULTANTS:			ARCHITECT/ENGINEERS:		Drawing Title FIRE SUPPRESSION GENERAL NOTES		Project Title IMPROVE PATIENT PRIVACY AREA 4C		Project Number 652-13-103		<div>Office of Construction and Facilities Management</div> <div>Department of Veterans Affairs</div>
					<div>McEntire Design ARCHITECTS</div> <div>1001 WEST WASHINGTON STREET SUFFOLK VIRGINIA 23434 phone 757-923-9800 fax 757-923-9830</div>		Approved Project Director		Location 1201 BROAD ROCK BLVD., RICHMOND VA 23249		Building Number 500		
							Date DECEMBER 16, 2014		Checked AJW		Drawing Number 500-FX001		
									Drawn HDS		Dwg. 27 of 64		
Revisions:		Date											

PHASING LEGEND

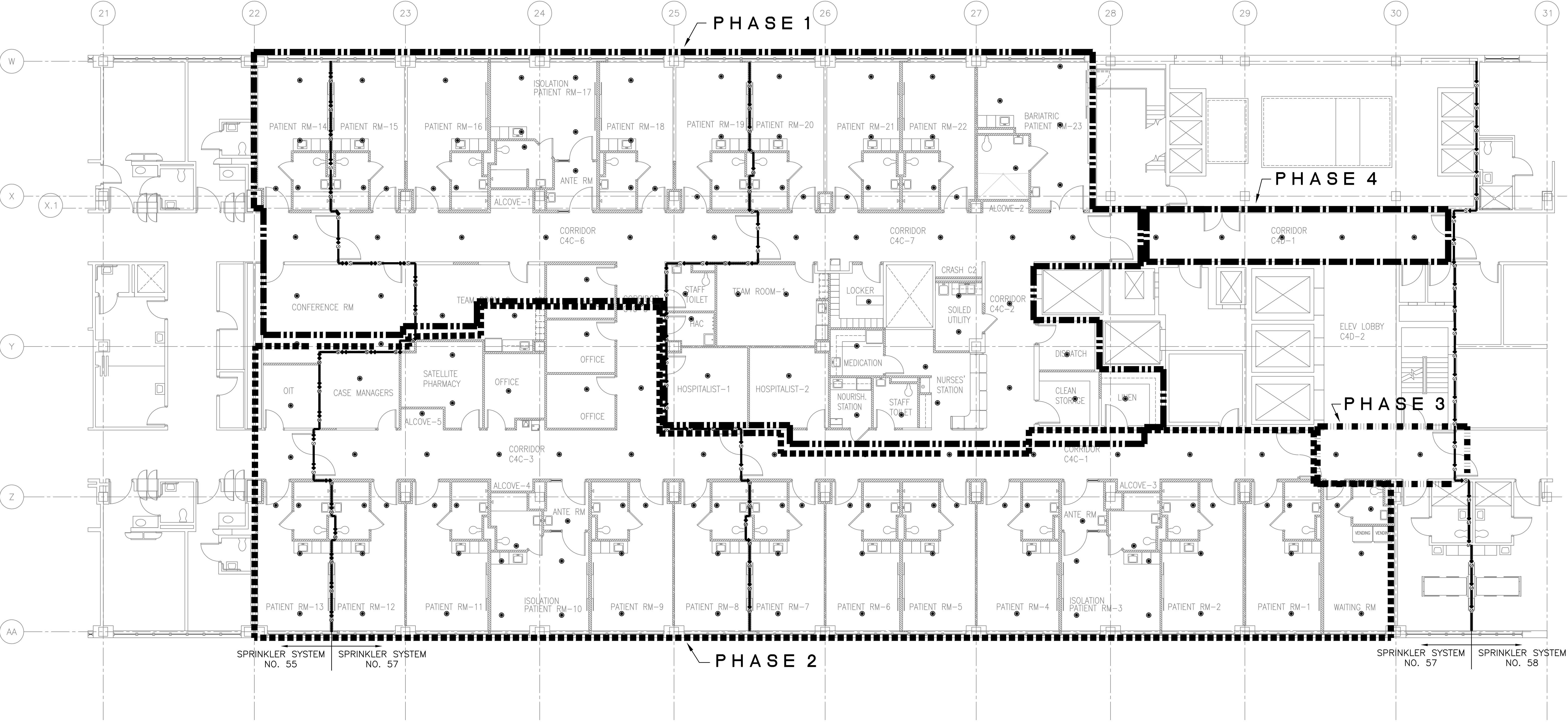
- PHASE 1 LIMITS
- PHASE 2 LIMITS
- PHASE 3 LIMITS
- PHASE 4 LIMITS

LEGEND

- NEW UPRIGHT SPRINKLER
- NEW STANDARD PENDANT SPRINKLER
- NEW SPRINKLER PIPE
- ONE HOUR FIRE AND SMOKE BARRIER
- TWO HOUR FIRE AND SMOKE BARRIER

GENERAL NOTES

- SPRINKLER SYSTEMS SHALL BE SEPARATED BY FIRE AND SMOKE BARRIERS.
- NEW WORK IS TO BE COMPLETED IN PHASES AS INDICATED BY PHASING LIMITS. WHEN FIRE PROTECTION SYSTEMS ARE DISRUPTED, ENSURE PROCEDURES ARE INCORPORATED TO MAINTAIN EQUIVALENT LEVELS OF FIRE PROTECTION AND PROVIDE FORMAL NOTIFICATION TO THE FACILITY WHEN SYSTEMS ARE DOWN.



FOURTH FLOOR PLAN - AREA 4C - FIRE SUPPRESSION PLAN  
SCALE: 1/8"=1'-0"

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