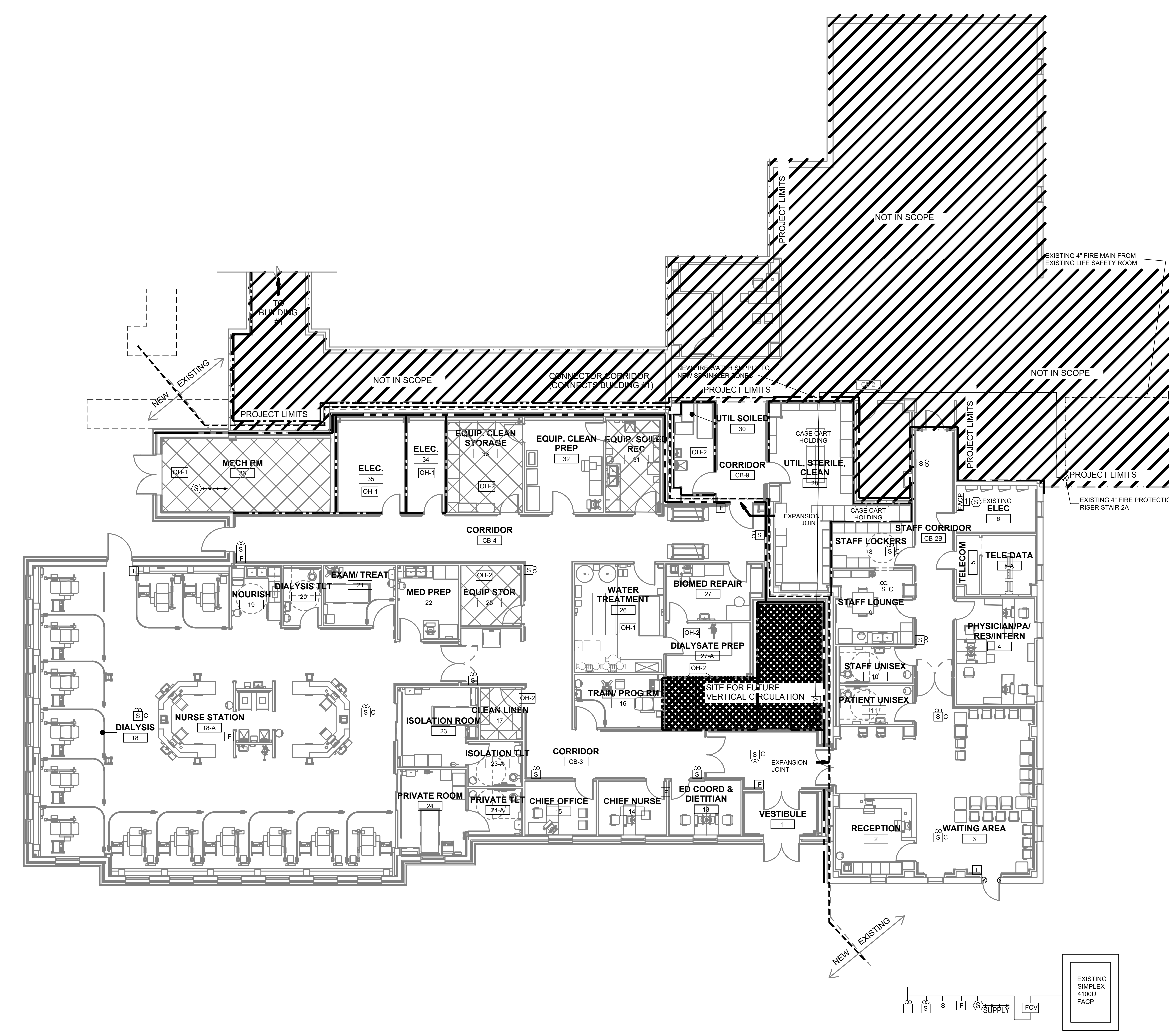


A
three inches = one foot
B
one and one half inches = one foot
C
one inch = one foot
D
three quarters inch = one foot
E
one half inch = one foot
F
one quarter inch = one foot
G
one eighth inch = one foot
H
one eighth inch = one foot
I
one eighth inch = one foot
J
one eighth inch = one foot
K
one eighth inch = one foot
L
one eighth inch = one foot
M
one eighth inch = one foot
N
one eighth inch = one foot
O
one eighth inch = one foot
P
one eighth inch = one foot
Q
one eighth inch = one foot
R
one eighth inch = one foot
S
one eighth inch = one foot
T
one eighth inch = one foot
U
one eighth inch = one foot
V
one eighth inch = one foot
W
one eighth inch = one foot
X
one eighth inch = one foot
Y
one eighth inch = one foot
Z
one eighth inch = one foot



WALL LEGEND

LINETYPE	DESCRIPTION
---	2-HR FIRE WALL
---	PROJECT LIMITS
---	NEW / EXISTING BOUNDARY
XXXXXX	HAZARDOUS AREA

FIRE PROTECTION GENERAL NOTES

SPRINKLER SYSTEMS

THE EXISTING BUILDING IS FULLY SPRINKLERED. ANY EXISTING SPRINKLERS AND PIPING SERVING THE EXISTING PORTION NEW WORK AREA SHALL BE MODIFIED FOR THE NEW WALL LAYOUT SHOWN. THE EXISTING SYSTEM SHALL REMAIN IN SERVICE DURING CONSTRUCTION FOR THOSE AREAS OUTSIDE OF THE WORK SCOPE. THE SPRINKLER SYSTEM FOR THE NEW ADDITION AREA SHALL BE ZONED AS INDICATED BELOW AND SHALL BE SUPPLIED SUPPLIED FROM THE EXISTING 4" STANDPIPE IN STAIR 2A. HAZARD CLASSES AND DESIGN CRITERIA ARE SHOWN ON THIS DRAWING. SPRINKLERS SHALL BE ARRANGED IN A SYMMETRICAL PATTERN SO WHEN VIEWED IN TWO DIRECTIONS ALIGN AS MUCH A PRACTICAL. CONTROL VALVES AND WATER FLOW WILL BE SUPERVISED BY THE FIRE ALARM SYSTEM.

FIRE ALARM

EXISTING FIRE ALARM DEVICES WILL BE REMOVED. NEW DEVICES WILL BE PROVIDED AND LOCATED BASED ON NEW WALL AND CEILING CONFIGURATIONS. SPEAKER-STROBES AND ADDITIONAL SPEAKER UNITS WILL BE PROVIDED SO THAT SPEAKERS ARE SPACED APPROXIMATELY 30 FT ON CENTERS AS SUGGESTED BY THE VA FIRE PROTECTION DESIGN GUIDE. MANUAL FIRE ALARM STATIONS WILL BE PROVIDED AT EXITS AND IN THE NURSES STATION. THE EXISTING SYSTEM IS MONITORED 24 HRS A DAY. THE EXISTING FIRE ALARM CIRCUITS AND DEVICES SERVING THE EXISTING PORTION NEW WORK AREA SHALL BE MODIFIED FOR THE NEW WALL LAYOUT SHOWN AND REMAIN A PART OF THE EXISTING ZONE. THE FIRE ALARM CIRCUITS AND DEVICES FOR THE NEW ADDITION AREA SHALL BE A ZONED AS INDICATED BELOW. THE SEQUENCE OF OPERATION FOR THE NEW FIRE ALARM ZONE SHALL FOLLOW THE EXISTING BUILDING SEQUENCE OF OPERATION.

FIRE PROTECTION LEGEND

F	MANUAL FIRE ALARM PULL STATION; 48" MOUNTING HEIGHT U.N.O.
S	SPEAKER; 80" MOUNTING HEIGHT U.N.O. C DENOTES CEILING MOUNT
SB	SPEAKER / STROBE; 80" MOUNTING HEIGHT U.N.O., C DENOTES CEILING MOUNT
SD	STROBE; 80" MOUNTING HEIGHT U.N.O., C DENOTES CEILING MOUNT
SDS	PHOTOELECTRIC SMOKE DETECTOR, ADDRESSABLE
FCV	DUCT MOUNTED SMOKE DETECTOR FLOOR CONTROL VALVE ASSEMBLY COMPLETE WITH SUPERVISED CONTROL VALVE, CHECK VALVE, PRESSURE GAUGE, FLOW SWITCH, TEST AND DRAIN CONNECTION.
OH-1	ORDINARY HAZARD -1, 0.15 GPM OVER 1,500 SF WITH 250 GPM FOR HOSE STREAMS.
OH-2	ORDINARY HAZARD -2, 0.20 GPM OVER 1,500 SF WITH 250 GPM FOR HOSE STREAMS.

SPRINKLER SYSTEM NOTES

- BASE HYDRAULIC CALCULATIONS ON EXISTING WATER SUPPLY. STATIC 68 PSI, RESIDUAL 50 PSI, FLOW 1,000 GPM.
- UNLESS NOTED OTHERWISE ALL AREAS ARE LIGHT HAZARD OCCUPANCY, 0.10 GPM OVER 1,500 SF USING QR SPRINKLERS, 100 GPM FOR HOSES.
- ALL SPRINKLERS SHALL BE QUICK RESPONSE. DESIGN AREA MAY BE REDUCED FOR CEILING HEIGHT AND QR SPRINKLERS PER NFPA 13.
- REFER TO SPECIFICATIONS FOR FURTHER DETAILS. ALL WORK SHALL BE IAW NFPA 13, NFPA 72, NFPA 101.
- EXISTING SPRINKLERS AND PIPING SERVING THE EXISTING PORTION NEW WORK AREA SHALL BE MODIFIED FOR THE NEW WALL LAYOUT SHOWN. THE SPRINKLER SYSTEM FOR THE NEW ADDITION AREA SHALL BE A ZONED AS INDICATED BELOW AND SUPPLIED SUPPLIED FROM THE EXISTING 4" STANDPIPE IN STAIR 2A.
- LOCATE ALL SPRINKLERS IN A SYMMETRICAL PATTERN THAT ALIGN WHEN VIEWED FROM TWO DIRECTIONS.
- SPRINKLER PIPING SHALL BE SEISMICALLY SUPPORTED. Ss=0.264.

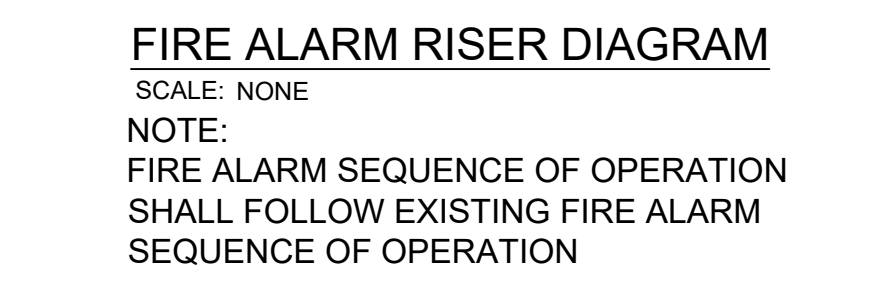
SHEET NOTES

- EXISTING SIMPLEX 4100U FIRE ALARM PANEL WITH CAPACITY FOR EXPANSION.
- APPROXIMATELY 201 EQ. FT. OF 4 INCH SCH. 40 PIPE TO TOP OF EXISTING 4 INCH RISER. 4 INCH RISER HAS 6 INCH DDC BACKFLOW PREVENTER.
- TO NEW SPRINKLER ZONE FOR NEW ADDITION

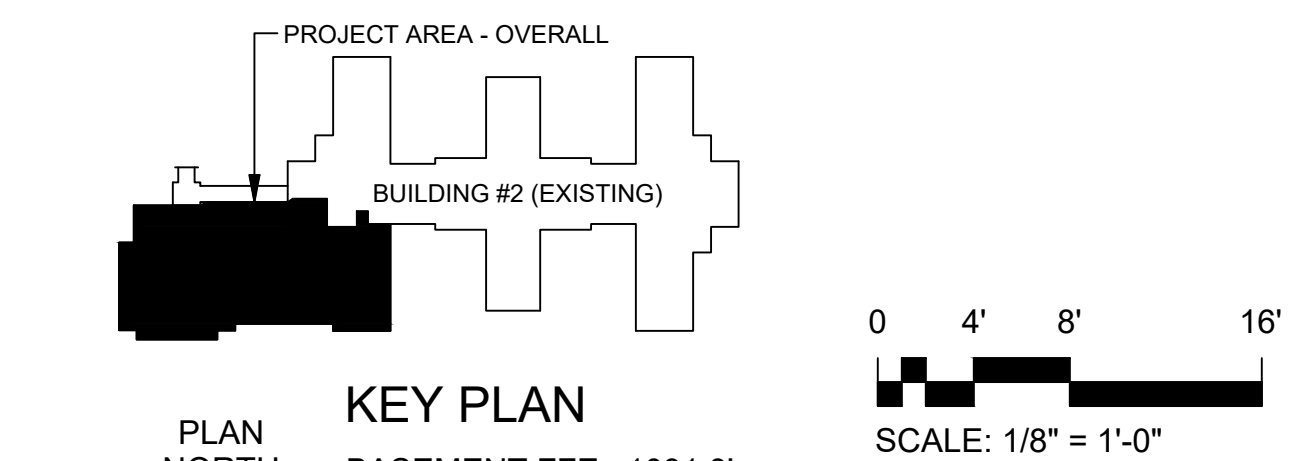
INPUT DEVICE	OUTPUT	1. Sound general building alarm for Other and High Rise (consult local code). See Section 7.2.1	2. Notify necessary staff for response for Health Care and High Rise buildings only (alarm signal may be different on different floors).	3. Notify Fire Department.	4. Initiate supervisory signal to a 24-hour manned point for immediate response.	5. Close associated smoke barrier doors on the floor proximate to detector.	6. Close dampers on fan barrier doors on the floor proximate to detector.	7. Shut down air handler served by the detector.	8. Recall elevator.	9. Initiate elevator shut down and disconnect elevator power.	10. Open windows against down draft of fire origin.	11. Disconnect fuel sources from cooking equipment.
Duct Smoke Detector*		X			X							
Area Smoke Detector*		X	X	X								X
Door Release Smoke Detector*		X	X	X		X	X					X
Elevator Smoke Detector*		X	X	X					X			
Manual Pull Station		X	X	X		X					X	
Elevator Machine Room Heat Detector		X	X	X						X		
Generator Room Heat Detector		X	X	X							X	
Sprinkler Waterflow / Pressure Switch		X	X	X		X					X	
Water Control Valve Tamper					X							
Fire Pump (Any alarm condition required by NFPA 20)					X							
High/Low Pressure Dry-Pipe Sprinkler System					X							
Kitchen Hood Suppression System	X	X	X	X		X					X	X
Gas Extinguishing Systems	X	X	X	X		X					X	
Dry-Pipe Valve Room Temperature Alarm					X							
Dedicated Fire Water Storage Tank Low Level					X							
Dedicated Fire Water Storage Tank Low Temperature					X							

*While NFPA 101 does not require some detectors to notify building occupants, VA requires all smoke detectors, other than duct smoke detectors, to notify building occupants. Only install smoke detectors when required by the Life Safety Code or its references.
** These doors that are required to be tied to the fire alarm system such as delayed egress and access controlled doors.
a- Do not provide duct detectors in dedicated (100%) exhaust fans, they should continue to run.

FIRE ALARM SEQUENCE OF OPERATIONS MATRIX



FIRE ALARM RISER DIAGRAM
SCALE: NONE
NOTE:
FIRE ALARM SEQUENCE OF OPERATION SHALL FOLLOW EXISTING FIRE ALARM SEQUENCE OF OPERATION



KEY PLAN
BASEMENT FFE: 1091.3'

Revisions:

	Date

Corporate Office:
766 Middle St.
Fairhope, AL 36532
Phone: 251.990.5778
Fax: 251.990.3716

BES
DESIGN/BUILD

Approved: Patient Safety Nurse

Approved: Energy Engineer

Approved: Safety Manager

Approved: Service Chief

Approved: Chief of Police

Approved: Infection Control Officer

Approved: Chief of Staff

Approved: Chief of Mental Health Service

Approved: GEMS Coordinator

Approved: Associate Director

Drawing Title
FIRE PROTECTION PLAN

Approved: Chief of Facility Management Svc.

Approved: Medical Center Director

Project Title
RELOCATE AND EXPAND RENAL DIALYSIS

Building Number
2

Location
SALEM VA MEDICAL CENTER

Date
2017.04.18

Project No.
658-315

Drawing No.
FP101

Sheet
70 of 120

Veterans Affairs