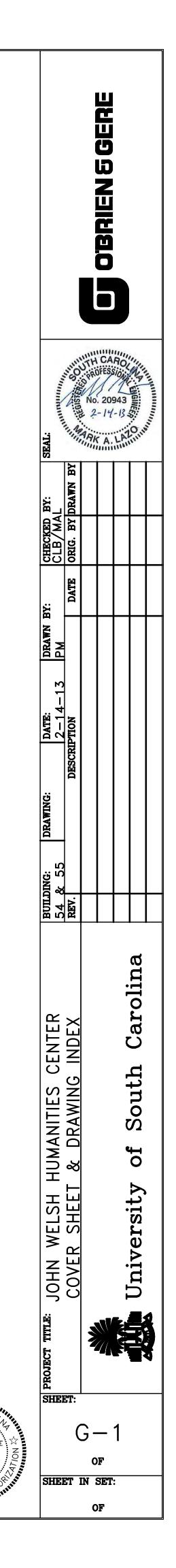
# UNIVER R S I T Y F HI ARU JOHN WELSH HUMANITIES CENTER BUILDING FIRE ALARM UPGRADES STATE PROJECT NUMBER: H27-I851-C

# **DRAWING INDEX**

DWG #	SHEET #	SHEET TITLE
1 2	G-1 F-0	COVER SHEET & DRAWING INDEX FIRE ALARM LEGEND, NOTES & DETAILS
3	FD-1	BASEMENT FIRE ALARM DEMOLITION PLAN
4	FD-2	GROUND FLOOR FIRE ALARM DEMOLITION PLAN
5	FD-3	FIRST FLOOR FIRE ALARM DEMOLITION PLAN
6	FD-4	SECOND FLOOR FIRE ALARM DEMOLITION PLAN
7	FD-5	THIRD FLOOR FIRE ALARM DEMOLITION PLAN
8	FD-6	FOURTH FLOOR FIRE ALARM DEMOLITION PLAN
9	FD-7	MECHANICAL & FIFTH FLOOR FIRE ALARM DEMOLITION PLAN
10	FD-8	SIXTH FLOOR FIRE ALARM DEMOLITION PLAN
11	FD-9	SEVENTH FLOOR FIRE ALARM DEMOLITION PLAN
12	FD-10	EIGHTH FLOOR FIRE ALARM DEMOLITION PLAN
13	FD-11	NINTH FLOOR FIRE ALARM DEMOLITION PLAN
14	FD-12	MECHANICAL FLOOR FIRE ALARM DEMOLITION PLAN
15	FA-1	BASEMENT FIRE ALARM NEW WORK PLAN
16	FA-2	GROUND FLOOR FIRE ALARM NEW WORK PLAN
17	FA-3	FIRST FLOOR FIRE ALARM NEW WORK PLAN
18	FA-4	SECOND FLOOR FIRE ALARM NEW WORK PLAN
19	FA-5	THIRD FLOOR FIRE ALARM NEW WORK PLAN
20	FA-6	FOURTH FLOOR FIRE ALARM NEW WORK PLAN
21	FA-7	MECHANICAL & FIFTH FLOOR FIRE ALARM NEW WORK PLAN
22	FA-8	SIXTH FLOOR FIRE ALARM NEW WORK PLAN
23	FA-9	SEVENTH FLOOR FIRE ALARM NEW WORK PLAN
24	FA-10	EIGHTH FLOOR FIRE ALARM NEW WORK PLAN
25	FA-11	NINTH FLOOR FIRE ALARM NEW WORK PLAN
26	FA-12	MECHANICAL FLOOR FIRE ALARM NEW WORK PLAN
27	FA-13	FIRE ALARM RISER DIAGRAM

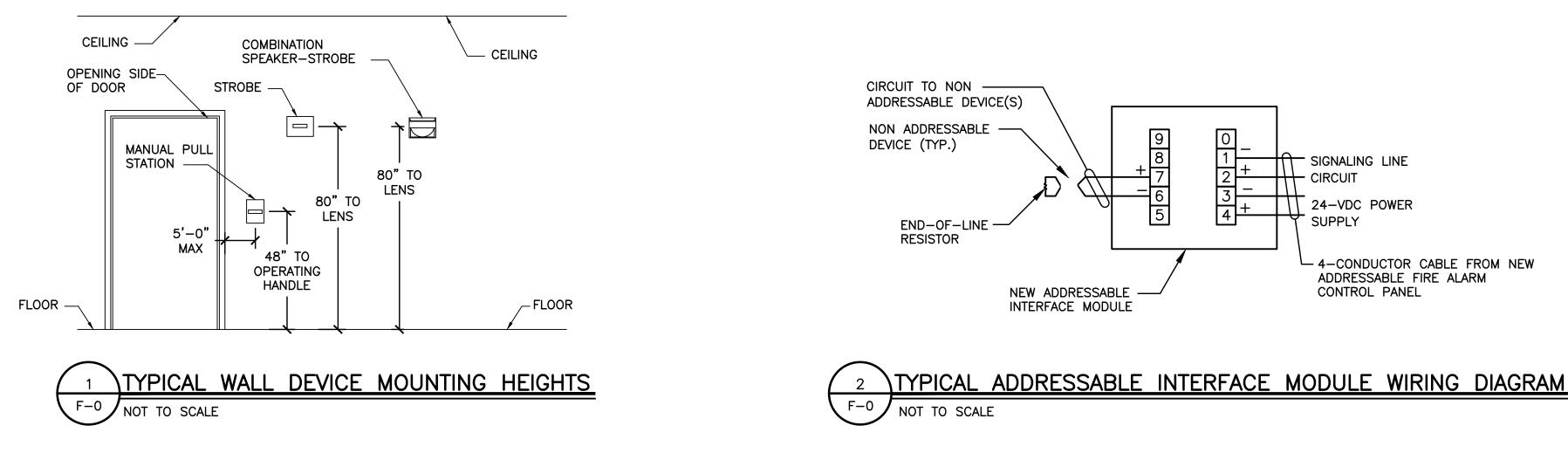




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#### **GENERAL FIRE ALARM NOTES:**

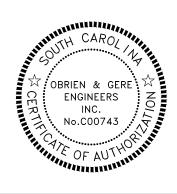
- DEMOLISH EXISTING FIRE ALARM AND DETECTION SYSTEM AS SHOWN. ALL EXISTING 1. WIRING SHALL BE REMOVED.
- 2. PROVIDE NEW ANALOG/ADDRESSABLE FIRE ALARM SYSTEM WITH EMERGENCY VOICE/ALARM COMMUNICATION CAPABILITIES FOR THE BUILDING. ALL COMPONENTS SHALL BE NEW UNLESS NOTED EXISTING TO REMAIN.
- 3. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR INTENDED USE.
- 4. THE NEW FIRE ALARM SYSTEM SHALL BE IN FULL ACCORDANCE WITH THE REQUIREMENTS AND APPENDIX OF THE FOLLOWING: - NFPA 70, 2008 EDITION
  - NFPA 72, 2010 EDITION
  - INTERNATIONAL MECHANICAL CODE, (IMC) 2009 EDITION
  - INTERNATIONAL BUILDING CODE (IBC), 2009 EDITION
  - INTERNATIONAL EXISTING BUILDING CODE (IEBC), 2009 EDITION - STATE AND LOCAL AUTHORITIES
- EXISTING SYSTEM SHALL BE REMOVED IN ITS ENTIRETY AS NECESSARY WHERE SHOWN AFTER NEW SYSTEM HAS BEEN INSTALLED, THOROUGHLY AND SUCCESSFULLY TESTED PER ALL THE REQUIREMENTS OF NFPA 72, AND ACCEPTED BY THE USC FIRE MARSHAL'S OFFICE.
- 6. REFER TO PLAN DRAWINGS AND PROJECT DOCUMENTS FOR APPROXIMATE FIRE ALARM SYSTEM QUANTITIES AND LOCATIONS, NOT ALL SITE CONDITIONS ARE SHOWN. FIRE ALARM CONTRACTOR SHALL VISIT JOB SITE WITH ALL PROJECT DOCUMENTS PRIOR TO BID TO BECOME FAMILIAR WITH PROJECT DESIGN, INSTALLATION, TESTING AND COMMISSIONING REQUIREMENTS, EXISTING SYSTEM ARRANGEMENT AND SITE CONDITIONS FOR DEMOLITION AND NEW SYSTEM INSTALLATION, TO PROVIDE A COMPREHENSIVE AND COMPLETE BID, SYSTEM DESIGN, INSTALLATION, TESTING, COMMISSIONING AND APPROVAL REQUIREMENTS.
- 7. FIRE ALARM FLOOR PLANS AND RISER DIAGRAM ARE DIAGRAMMATIC AND NOT INTENDED TO SHOW EACH AND EVERY COMPONENT, DEVICE, APPLIANCE, ETC. CONDUIT PATHWAYS AND INTERCONNECTIONS SHALL BE DETERMINED BY THE BUILDING FEATURES, NFPA 70, NFPA 72, SYSTEM MANUFACTURER REQUIREMENTS AND RECOMMENDATIONS, AND ASBESTOS CONDITIONS.
- 8. THE EXISTING ORIGINAL FACP SHALL BE REMOVED AND RETURNED TO EHS FIRE SAFETY, USC FIRE MARSHALS OFFICE. THE RECENTLY INSTALLED AND EXISTING 4100U FACU SHALL REMAIN AND SERVE AS THE PRIMARY PANEL.
- 9. UPON SYSTEM ACTIVATION AN AUTOMATIC GENERAL ALARM SHALL BE PROVIDED, AS REQUIRED BY THE USC FIRE MARSHAL, SOUND AN ALERT TONE FOLLOWED BY VOICE INSTRUCTIONS FOR TOTAL EVACUATION OF THE BUILDING IN ALARM.
- 10. AN APPROVED TWO-WAY FIRE DEPARTMENT COMMUNICATIONS SYSTEM HAS BEEN CONFIRMED TO BE PROVIDED BY THE COLUMBIA FIRE DEPARTMENT BY MEANS OF A FIRE DEPARTMENT RADIO SYSTEM.
- 11. A GENERAL ALARM HAS BEEN REQUIRED FOR TOTAL EVACUATION OF THE BUILDING IN ALARM. PROVIDE A LEVEL 0 (ZERO) SURVIVABILITY AT THE DIRECTION OF THE USC FIRE MARSHAL, AND IN ACCORDANCE WITH NFPA 70 AND NFPA 72 REQUIREMENTS.
- 12. FIRE ALARM SIGNALS AND EMERGENCY COMMUNICATIONS SHALL TAKE PRECEDENCE OVER ALL OTHER SIGNALS, SUCH AS BUT NOT LIMITED TO PUBLIC ADDRESS SYSTEMS.
- 13. ALL NOTIFICATION APPLIANCES CIRCUITS (NAC) SHALL PERFORM TO CLASS "B" AS DEFINED BY NFPA 70 AND NFPA 72 REQUIREMENTS.
- 14. ALL SIGNALING LINE CIRCUITS (SLC) SHALL PERFORM TO CLASS "B" STYLE 7 AS DEFINED BY NFPA 70 AND NFPA 72 REQUIREMENTS.
- 15. ALL INDICATING DEVICE CIRCUITS (IDC) SHALL PERFORM TO CLASS "B" AS DEFINED BY NFPA 70 AND NFPA 72 REQUIREMENTS.
- 16. THE INSTALLATION OF WIRING BETWEEN THE FACU AND RELAY MODULES OR OTHER APPLIANCES SHALL PERFORM TO CLASS "B" AS DEFINED BY NFPA 70 AND NFPA 72 REQUIREMENTS.
- 17. CONDUCTORS FOR THE FIRE ALARM SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70. THE CONDUCTORS SHALL NOT BE INSTALLED WITH CONDUCTORS OF LIGHTING OR POWER SYSTEMS. THE SUM OF THE CROSS-AREA OF INDIVIDUAL CONDUCTORS SHALL NOT EXCEED 40% OF THE INTERIOR CROSS-SECTION OF THE CONDUIT. ALL FIRE ALARM SYSTEM CONDUIT SHALL NOT BE LESS THAN 3/4".
- 18. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH FIRE ALARM VENDOR FOR SYSTEM OPERATING INSTRUCTIONS AND WIRING DIAGRAMS.
- 19. ALL FLOOR AND WALL PENETRATIONS SHALL BE DRILLED, COORDINATED WITH USC ASBESTOS ABATEMENT TEAM (AAT), AND SHALL BE COORDINATED WITH STRUCTURAL SYSTEMS.
- 20. IN FINISHED AREAS, WALL MOUNTED DEVICES SHALL BE RECESS MOUNTED. THE CONDUIT SHALL BE INSTALLED CONCEALED IN THE WALLS AND CEILINGS UNLESS REFERENCED AS CEILING MOUNTED.



#### GENERAL FIRE ALARM NOTES (CONTINUED):

- 21. WALL MOUNTED FIRE ALARM DEVICES IN UNFINISHED AREAS MAY BE SURFACE MOUNTED. THE CONDUIT MAY BE INSTALLED EXPOSED ON WALLS AND ON CEILINGS.
- 22. PROVIDE INDICATING LAMP FOR ALL CONCEALED DETECTORS.
- 23. FIRE ALARM MANUAL PULL STATIONS AT DOOR OPENINGS SHALL BE WITHIN 5'-0" HORIZONTALLY OF THE DOOR OPENING.
- 24. DUCT SMOKE SENSORS SHALL BE IN ACCORDANCE WITH NFPA 72, 90A, AND AS INDICATED ON THE CONTRACT DOCUMENTS.
- 25. PROVIDE SYNCHRONIZATION FOR ALL NEW AUDIBLE (SPEAKER) AND VISIBLE (STROBE) NOTIFICATION APPLIANCES WHERE THERE ARE MORE THAN TWO DEVICES WITHIN A FIELD OF VIEW TO COMPLY WITH THE REQUIREMENTS OF NFPA 72, 2010 EDITION.
- 26. PROVIDE TRANSIENT VOLT SURGE SUPPRESSION DEVICE WHERE CIRCUITS PENETRATE THE BUILDING ENVELOPE IN ACCORDANCE WITH NFPA 70 AND NFPA 72 REQUIREMENTS.
- 27. PROVIDE ADDRESSABLE MONITOR MODULES FOR NON-ADDRESSABLE DEVICES.
- 28. STROBE FOR AUDIO/VISUAL DEVICES SHALL HAVE WHITE/CLEAR LENS AND BE LABELED "FIRE"
- 29. DUCT DETECTORS SHALL BE PROVIDED IN RETURN AIR SYSTEMS WITH A DESIGN CAPACITY OF 2,000-CFM. ACCESS TO DETECTORS SHALL BE PROVIDED FOR INSPECTION AND MAINTENANCE PURPOSES. ACTUATION OF THE DUCT DETECTOR SHALL SHUT DOWN ALL OPERATIONAL CAPABILITIES OF THE DISTRIBUTION SYSTEM.
- 30. ALL DUCT DETECTORS (SUPPLY, RETURN AND PLENUM TYPES) SHALL BE PROVIDED WITH REMOTE STATUS INDICATION.
- 31. INSTALL SMOKE DETECTORS NO CLOSER THAN 3'-0" TO HVAC AIR SUPPLY DIFFUSERS.
- 32. ASBESTOS HAS BEEN IDENTIFIED IN CERTAIN LOCATIONS IN THIS BUILDING. REFER TO THE PROJECT MANUAL, APPENDIX A FOR ASBESTOS REPORT. CONTRACTORS SHALL MAKE EVERY EFFORT TO AVOID DISTURBING AREAS THAT HAVE BEEN IDENTIFIED AS CONTAINING ASBESTOS. WHERE THIS IS NOT POSSIBLE, CONTRACTORS SHALL COORDINATE PENETRATIONS WITH USC ASBESTOS ABATEMENT PROGRAM MANAGER. IF MATERIALS ARE ENCOUNTERED IN PLACE AND DEEMED SUSPECT FOR ASBESTOS AND IT IS NOT LISTED IN THE ASBESTOS REPORT, STOP WORK AND CALL THE USC ASBESTOS PROGRAM MANAGER FOR FURTHER TESTING OR ABATEMENT. TAKE PROPER PRECAUTIONS AT ALL TIMES.
- 33. CONTRACTOR SHALL BE RESPONSIBLE TO MAKE REPAIRS TO EXISTING BUILDING FEATURES DURING SCOPE OF WORK SUCH AS BUT NOT LIMITED TO WALLS, CEILINGS OR FLOORS AS A RESULT OF DEMOLITION OF EXISTING FIRE ALARM SYSTEM OR INSTALLATION OF NEW SYSTEM. REPAIRS MAY INCLUDE RESTORATION OF FIRE RESISTANCE RATED WALL FLOORS AND CEILINGS, AND/OR REPLACEMENT OF EXISTING CEILING TILES WITH NEW CEILING TILES OF EQUAL/APPROVED TYPE, STYLE AND SIZE.
- 34. CONTRACTOR SHALL BE RESPONSIBLE TO KEEP WORK AREA AND BUILDING CLEAN AND FREE FROM DEBRIS AT ALL TIMES DURING SCOPE OF WORK, AND NOT IMPEDE MEANS OF EGRESS FROM BUILDING.
- 35. CONTRACTOR SHALL BE RESPONSIBLE TO TAKE PRECAUTIONS TO NOT DAMAGE EXISTING BUILDING FEATURES OR SYSTEMS DURING SCOPE OF WORK SUCH AS BUT NOT LIMITED TO WALLS, WALL COVERINGS (I.E. PAINT, WALLPAPER, ETC.), FLOORS, FLOOR COVERINGS (I.E. CARPET, TILE, ETC.), CEILINGS, DOORS, MECHANICAL SYSTEMS, ETC. FAILURE TO COMPLY WILL BE AT CONTRACTORS RISK.
- 36. SYSTEM IMPAIRMENTS AND OUT-OF-SERVICE EVENTS SHALL BE IN CONDUCTED IN ACCORDANCE WITH NFPA 72, IFC AND USC EHS FIRE SAFETY REQUIREMENTS.
- 37. ALL NIGHT WORK SHALL BE COORDINATED WITH THE USC PROJECT MANAGER.
- 38. MODIFICATIONS TO THE EXISTING ELEVATOR CONTROLLER AND CABS ARE NOT INCLUDED IN THIS SCOPE OF WORK.
- 39. REFER TO FIRE ALARM SYSTEM SPECIFICATION 20 31 11 FOR ADDITIONAL REQUIREMENTS AND INFORMATION.
- 40. ALL EXISTING SPRINKLER FLOOR CONTROL VALVES (EXCLUDING PUMP UNIT VALVES) SHALL BE CHAIN-LOCKED IN THE OPEN POSITION PER USE FIRE MARSHAL. TAMPER SWITCHES DO NOT EXIST, AND NOT POSSIBLE TO BE COMPATIBLE WITH THE VALVES. HOWEVER, INTELLIGENT DEVICES SHALL BE PROVIDED AT EACH VALVE FOR FUTURE SUPERVISION CAPABILITIES.

FIRE ALARM LEGEND:							
F	MANUAL FIRE ALARM BOX (DOUBLE ACTION)						
R	RELAY MODULE			Ľ	j		
$\langle H \rangle$	HEAT DETECTOR DEVICE (THERMAL DETECTOR)				י כ		
$\langle S \rangle$	SMOKE DETECTOR DEVICE - PHOTOELECTRIC						
⊦⟨S⟩	SMOKE DETECTOR DEVICE - PHOTOELECTRIC (WALL MOUNTED)						
$\langle D \rangle_{R}$	DUCT DETECTOR DEVICE - PHOTOELECTRIC			N-JICZ.U	<b>ב</b>		
FO	SPEAKER/STROBE APPLIANCE		-				
V <sub>cd</sub>	STROBE APPLIANCE (WALL MOUNTED)						
	STROBE APPLIANCE (CEILING MOUNTED)						
DH	HORN TYPE NOTIFICATION APPLIANCE (WALL MOUNTED)			min	in in	1.	
В	BELL TYPE NOTIFICATION APPLIANCE		NUM C	PROFE	SSION	n's	
FACP	FIRE ALARM/MASS NOTIFICATION CONTROL PANEL	in the second	EGISTER	No. 2	0943	ENGINEE	
DACT	DIGITAL ALARM COMMUNICATIONS TRANSMITTER	Ë	1.19	AR	LA	0,111	1111
RTU	REMOTE TRANSMITTER UNIT	SEAL	ास्र	anini 	inner		
RTS	REMOTE TEST STATION WITH LED AND KEY SWITCH		WN BY				
FAA	FIRE ALARM ANNUNCIATOR UNIT (PANEL)	AL AL	BY DRAWN	$\downarrow$	╞		
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR	CHECKED CLB/MA	B.				
SCP	SUB-PANEL	CLE	ORI	$\downarrow$	╞		
NAC	NOTIFICATION APPLIANCE CIRCUIT UNIT (PANEL)		DATE				
TS	TAMPER SWITCH - FIRE SPRINKLER SYSTEM	BY:		$\downarrow$	╞		
FS	WATER FLOW SWITCH - FIRE SPRINKLER SYSTEM	drawn PM					
EOL	END OF LINE RESISTOR						
MM	MONITOR MODULE	-13					
		-14- -14-	N				
	EXISTING LINE TYPE	DATE: 2-1.	DESCRIPTION				
	NEW WORK LINE TYPE		DESCI				
	DEMOLITION LINE TYPE						
	FUTURE WORK LINE TYPE	DRAWING:					
SUBSCRIPTS:							
SS	SINGLE STATION - BATTERY OPERATED	22 22					
EL WP	ELEVATOR CONTROL FUNCTION WEATHER PROOF	BUILDING: 54 & 5!	Þ.	+	╋		
R CD	RETURN CANDELA RATING OF APPLIANCE	BU 5 4	2				
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BUILDING SYMBOLS:					•	in	
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GYP	GYPSUM BOARD CEILING	CENTER			{	Carolina	
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AS	AUTOMATIC FIRE SPRINKLER PROTECTION				-	lt	
	FIRE RATED WALL (2-HOUR)		王 王		9	South	
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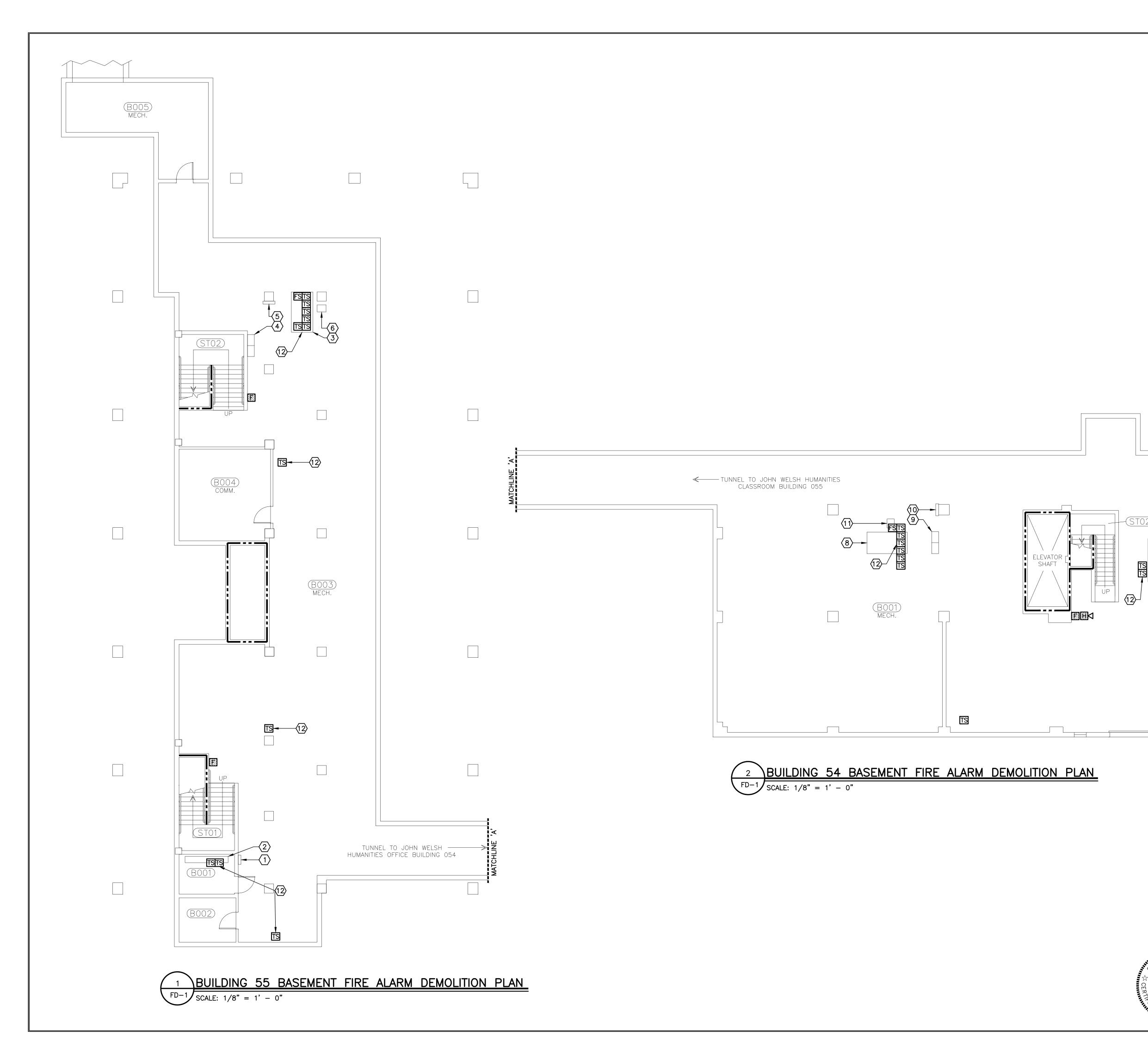
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- 1. THIS LEVEL IS NOT PROVIDED WITH FIRE SPRINKLER PROTECTION.
- 2. ALL CEILINGS ARE EXPOSED TO STRUCTURE (EXP)
- 3. CEILING TYPES ARE REFERENCED FOR INFORMATION PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE TO FIELD DETERMINE ALL BUILDING FEATURES.

#### KEY NOTES (#)

- 1. ELECTRIC PANEL BEL, 120/208V, 3-PH, 4-WIRE. BREAKER NO. 1 & 3 FOR FIRE ALARM.
- 2. EXISTING BACKFLOW PREVENTION DEVICE (BFPD) FOR BUILDING 55 TO REMAIN.
- 3. EXISTING ELECTRIC DRIVEN FIRE PUMP UNIT FOR BUILDING 55 TO REMAIN.
- 4. EXISTING FIRE PUMP CONTROLLER FOR BUILDING 55 TO REMAIN.
- 5. EXISTING JOCKEY PUMP CONTROLLER FOR BUILDING 55 TO REMAIN.
- 6. EXISTING JOCKEY PUMP FOR BUILDING 55 TO REMAIN.
- 7. EXISTING BACKFLOW PREVENTION DEVICE (BFPD) FOR BUILDING 54 TO REMAIN.
- 8. EXISTING ELECTRIC DRIVEN FIRE PUMP UNIT FOR BUILDING 54 TO REMAIN.
- 9. EXISTING FIRE PUMP CONTROLLER FOR BUILDING 54 TO REMAIN.
- 10. EXISTING JOCKEY PUMP CONTROLLER FOR BUILDING 54 TO REMAIN.
- 11. EXISTING JOCKEY PUMP FOR BUILDING 54 TO REMAIN.
- 12. EXISTING DEVICE(S) TO REMAIN.

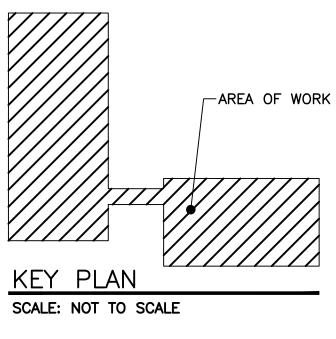
#### ASBESTOS HAZARDS MATERIALS NOTES:

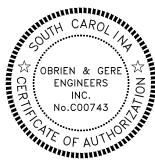
- 1. OFFICE BUILDING #54:
- A. JOINT COMPOUND TESTS POSITIVE FOR ASBESTOS CONTAINING MATERIALS. B. POPCORN TEXTURE CEILING SPRAY AT ELEVATORS
- TESTS POSITIVE FOR ASBESTOS CONTAINING MATERIALS. C. THERE IS ASBESTOS BLACK MASTIC ON THE HVAC
- DUCTS IN THE ENTIRE BUILDING AS WELL AS ON THE WATER LINES ABOVE THE CEILING IN THE BUILDING.
- D. THE FLOOR TILES IN THE HALLS AND UNDER CARPET IN THE BUILDING (9x9), AS WELL AS THE BLACK MASTIC THAT HOLDS IT TO THE CONCRETE TESTS POSITIVE FOR ASBESTOS CONTAINING MATERIALS.

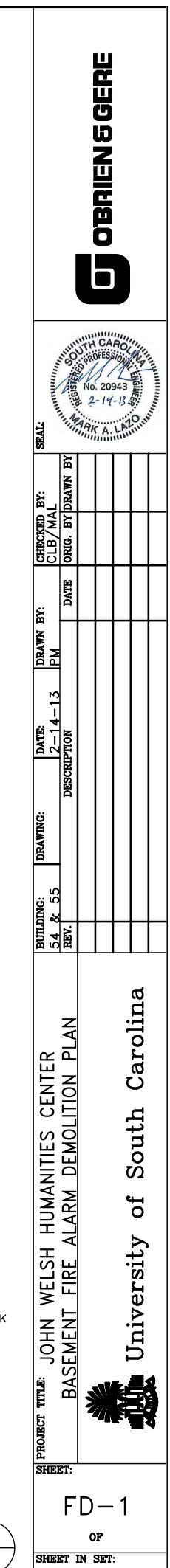
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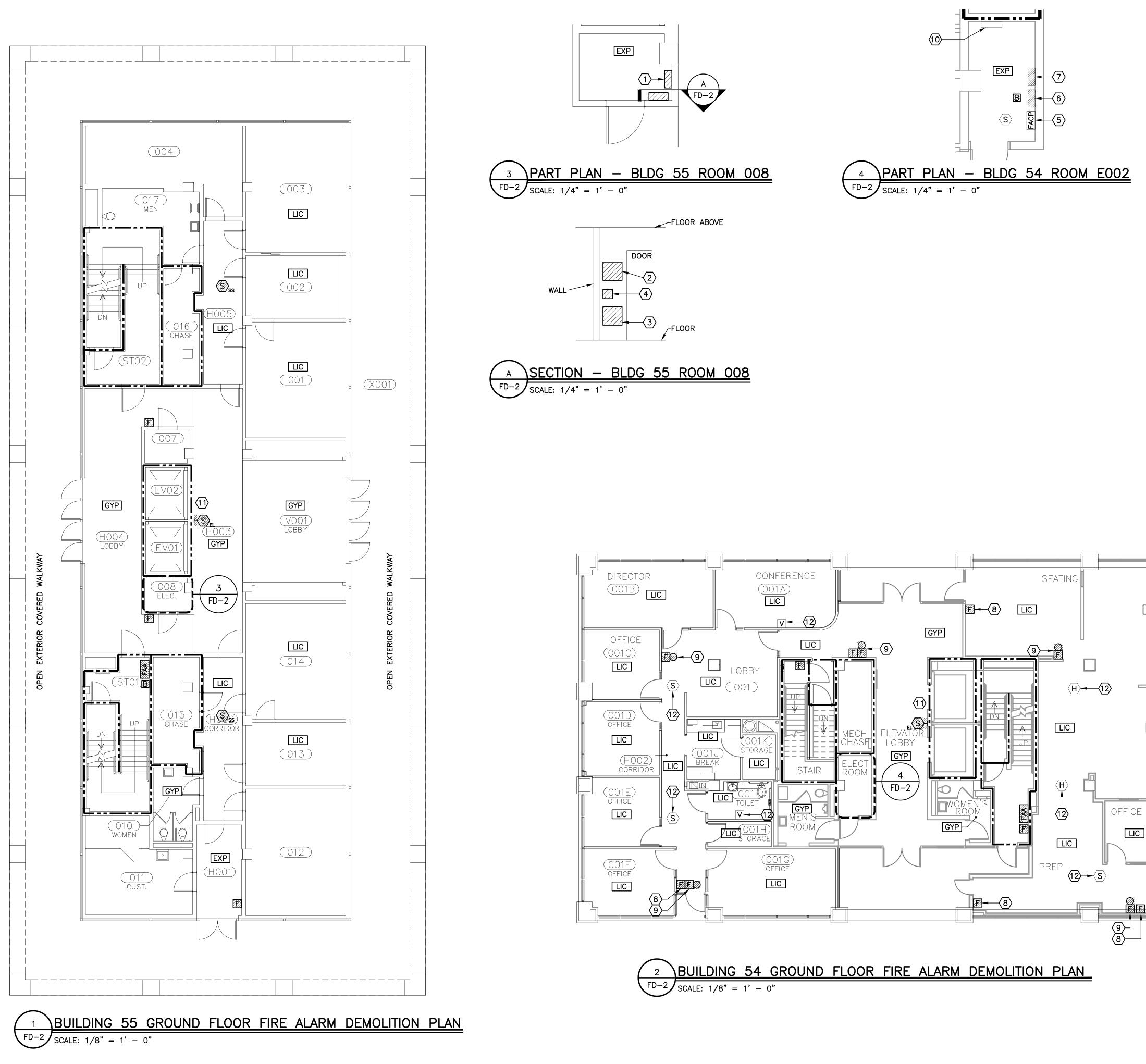
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- 2. CLASSROOM #55: A. JOINT COMPOUND TESTS POSITIVE FOR ASBESTOS CONTAINING MATERIALS.
- B. THERE IS ASBESTOS FLOOR TILE AND MASTIC (9x9 AND BLACK) INSIDE EACH ROOM CONCEALED UNDER CARPET AND NOT CONCEALED THAT SHOULD NOT BE DISTURBED.









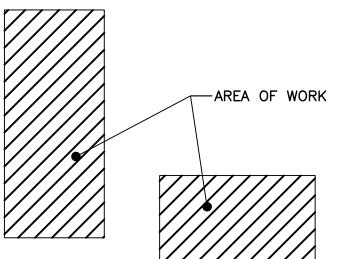
- 1. THIS LEVEL IS NOT PROVIDED WITH FIRE SPRINKLER PROTECTION.
- 2. THERE ARE NO DEVICES LOCATED IN THE ELEVATOR PITS OF EITHER BUILDING ON THIS DRAWING.
- 3. FIRE RESISTANCE RATING (FRR) OF WALL/FLOOR ASSEMBLIES ARE PROVIDED FOR INFORMÁTIONAL PURPOSES AND SURMISED TO BE AS INDICATED. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE FRR WALL/FLOOR ASSEMBLIES SHOWN. ALL PENETRATIONS OF WALL/FLOOR FRR ASSEMBLIES SHALL BE PROVIDED WITH A UL LISTED OR APPROVED FIRESTOPPING ASSEMBLY EQUAL TO THE FRR OF THE WALL/FLOOR.
- 4. CEILING TYPES ARE REFERENCED FOR INFORMATION PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE TO FIELD DETERMINE ALL BUILDING FEATURES.

#### KEY NOTES (#)

- 1. SIMPLEX TIME RECORDER TYPE SU TO BE REMOVED.
- 2. ADEMCO CONTROLLER TO BE REMOVED.
- 3. ADEMCO 5110XM 5 ZONE DACT FIRE ALARM COMMUNICATOR TO BE REMOVED.
- 4. SA1451 BOX TO BE REMOVED.
- 5. EXISTING SIMPLEX 4100U FIRE ALARM CONTROL PANEL TO REMAIN, AND SERVE AS THE PRIMARY PANEL.
- 6. SIMPLEX TIME RECORDER PANEL TO BE REMOVED.
- 7. MONITOR MODULE PANEL TO BE REMOVED.
- 8. EXISTING SINGLE ACTION MANUAL FIRE ALARM BOX TO BE REMOVED AND REPLACED WITH A NEW DOUBLE ACTION PULL FIRE ALARM BOX. EXISTING BACKBOX AND FIRE ALARM WIRING TO BE REUSED. SEE DRAWING FA-2 FOR MORE INFORMATION.
- 9. EXISTING HORN/STROBE APPLIANCE TO BE REMOVED AND REPLACED WITH A NEW SPEAKER/STROBE APPLIANCE. EXISTING BACKBOX AND CONDUIT TO BE REUSED. SEE DRAWING FA-2 FOR MORE INFORMATION.
- 10. ELECTRIC PANEL EGL, 120/208V, 3-PH, 4-WIRE. BREAKER 2 & 4 FOR FIRE ALARM.
- 11. EXISTING FIRE FIGHTER'S KEY SWITCH TO REMAIN.
- 12. EXISTING DEVICE TO REMAIN.

#### ASBESTOS HAZARDS MATERIALS NOTES:

- 1. OFFICE BUILDING #54: A. JOINT COMPOUND TESTS POSITIVE FOR ASBESTOS CONTAINING MATERIALS.
- B. POPCORN TEXTURE CEILING SPRAY AT ELEVATORS TESTS POSITIVE FOR ASBESTOS CONTAINING MATERIALS.
- C. THERE IS ASBESTOS BLACK MASTIC ON THE HVAC DUCTS IN THE ENTIRE BUILDING AS WELL AS ON THE WATER LINES ABOVE THE CEILING IN THE BUILDING.
- D. THE FLOOR TILES IN THE HALLS AND UNDER CARPET IN THE BUILDING (9x9), AS WELL AS THE BLACK MASTIC THAT HOLDS IT TO THE CONCRETE TESTS POSITIVE FOR ASBESTOS CONTAINING MATERIALS.
- CLASSROOM #55:
- A. JOINT COMPOUND TESTS POSITIVE FOR ASBESTOS CONTAINING MATERIALS.
- B. THERE IS ASBESTOS FLOOR TILE AND MASTIC (9x9 AND BLACK) INSIDE EACH ROOM CONCEALED UNDER CARPET AND NOT CONCEALED THAT SHOULD NOT BE DISTURBED.







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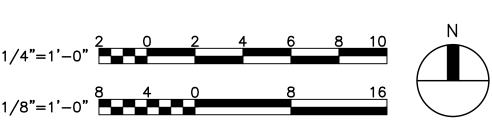
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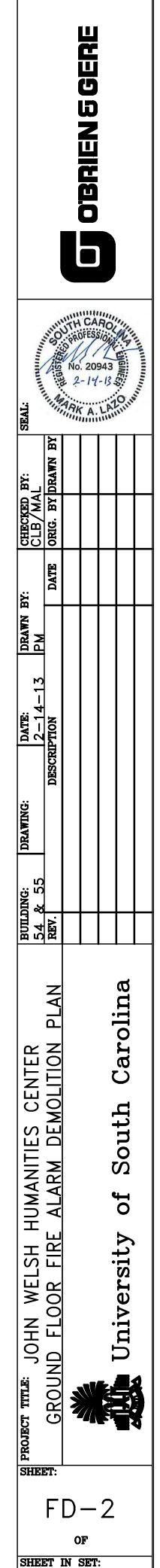
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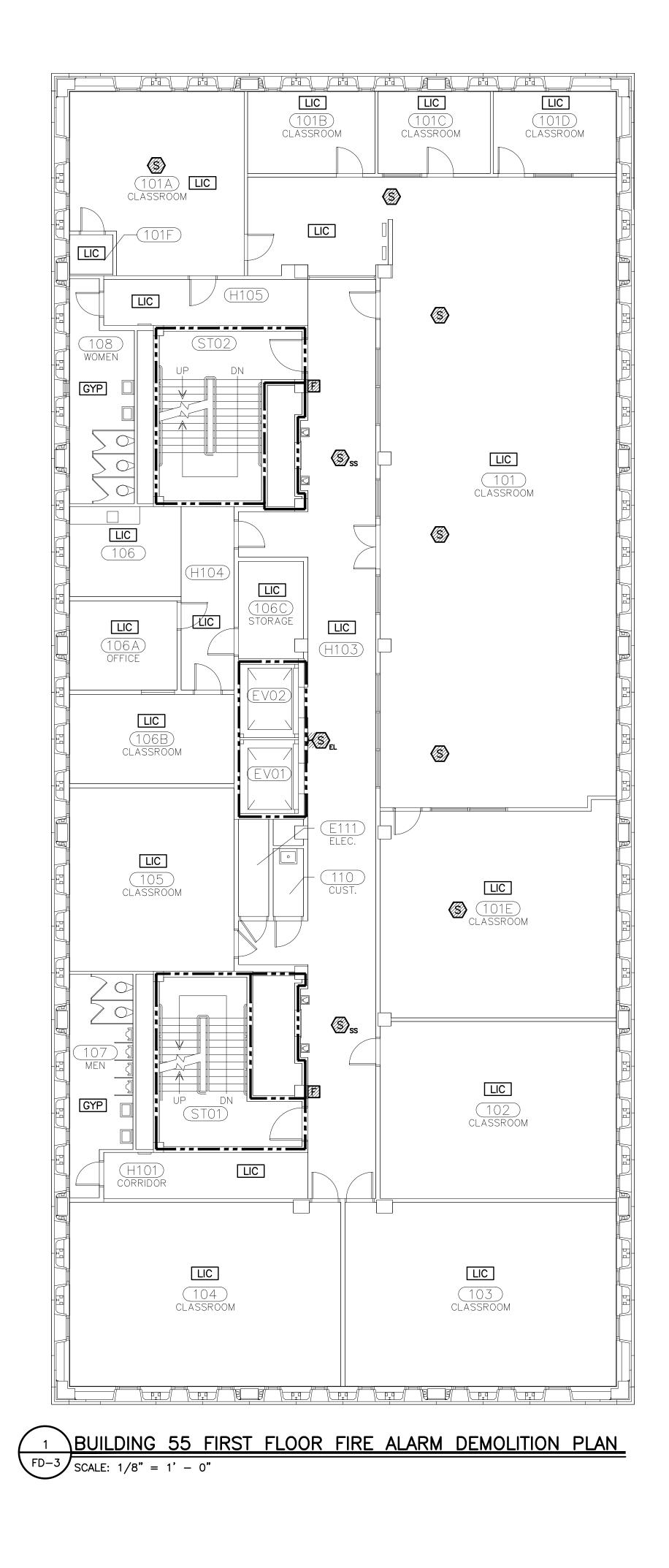
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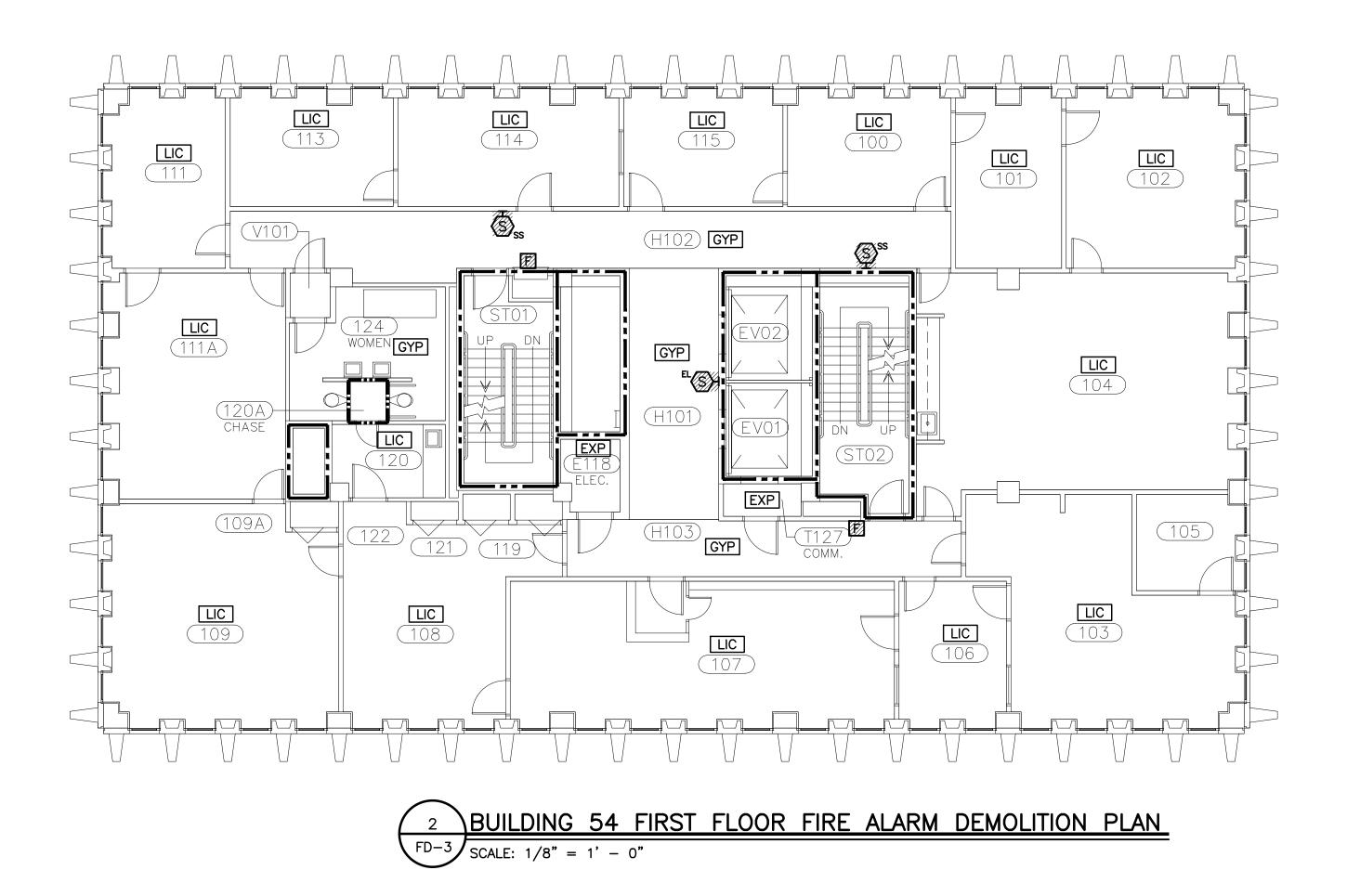
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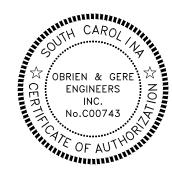


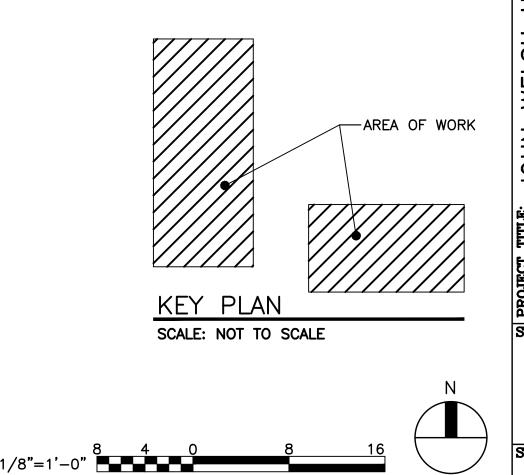
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- CEILING TYPES ARE REFERENCED FOR INFORMATION PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE TO FIELD DETERMINE ALL BUILDING FEATURES.

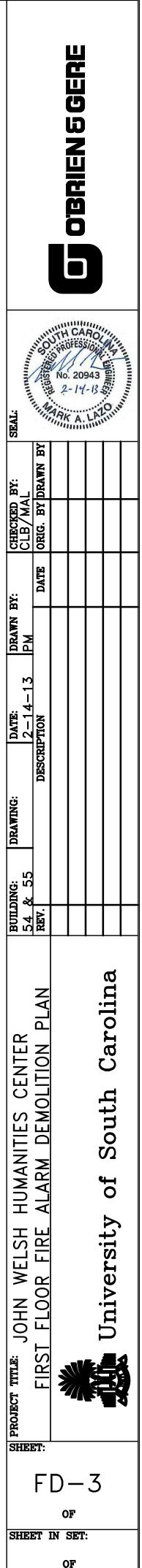
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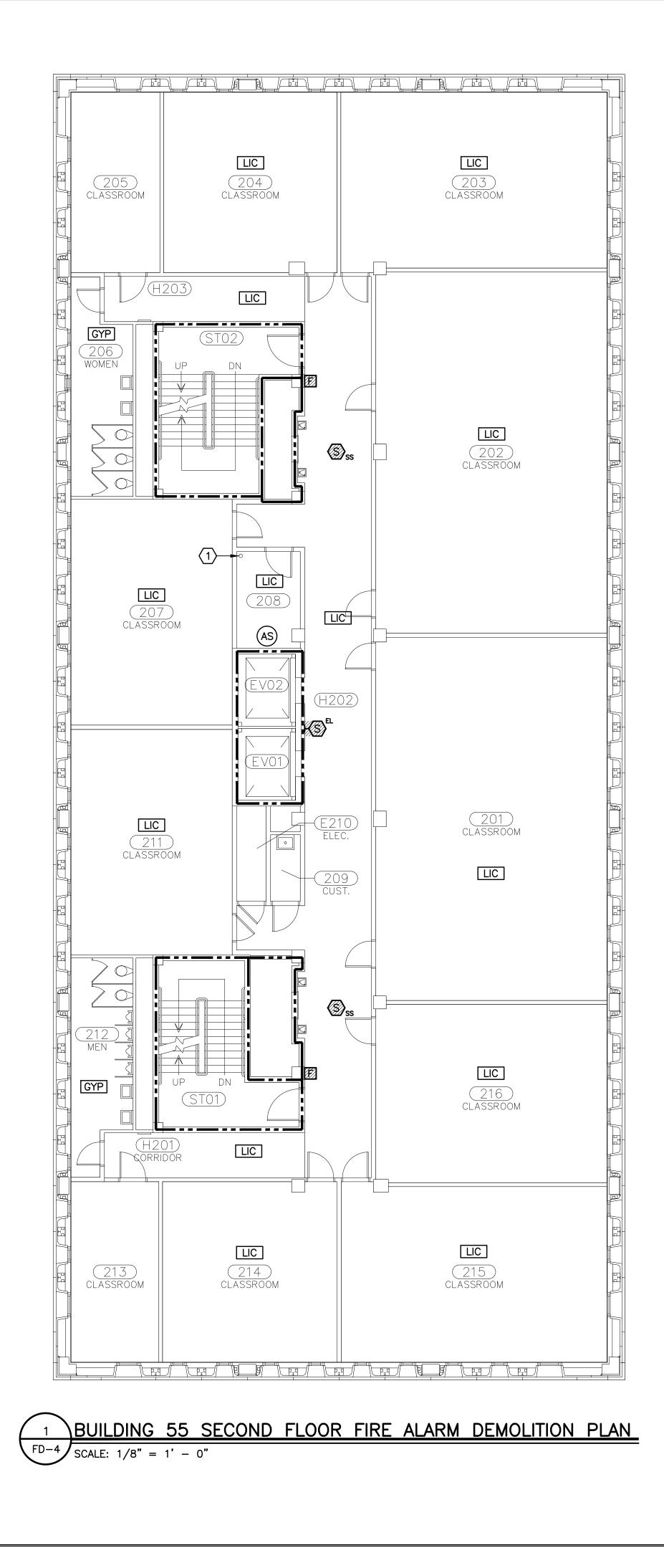
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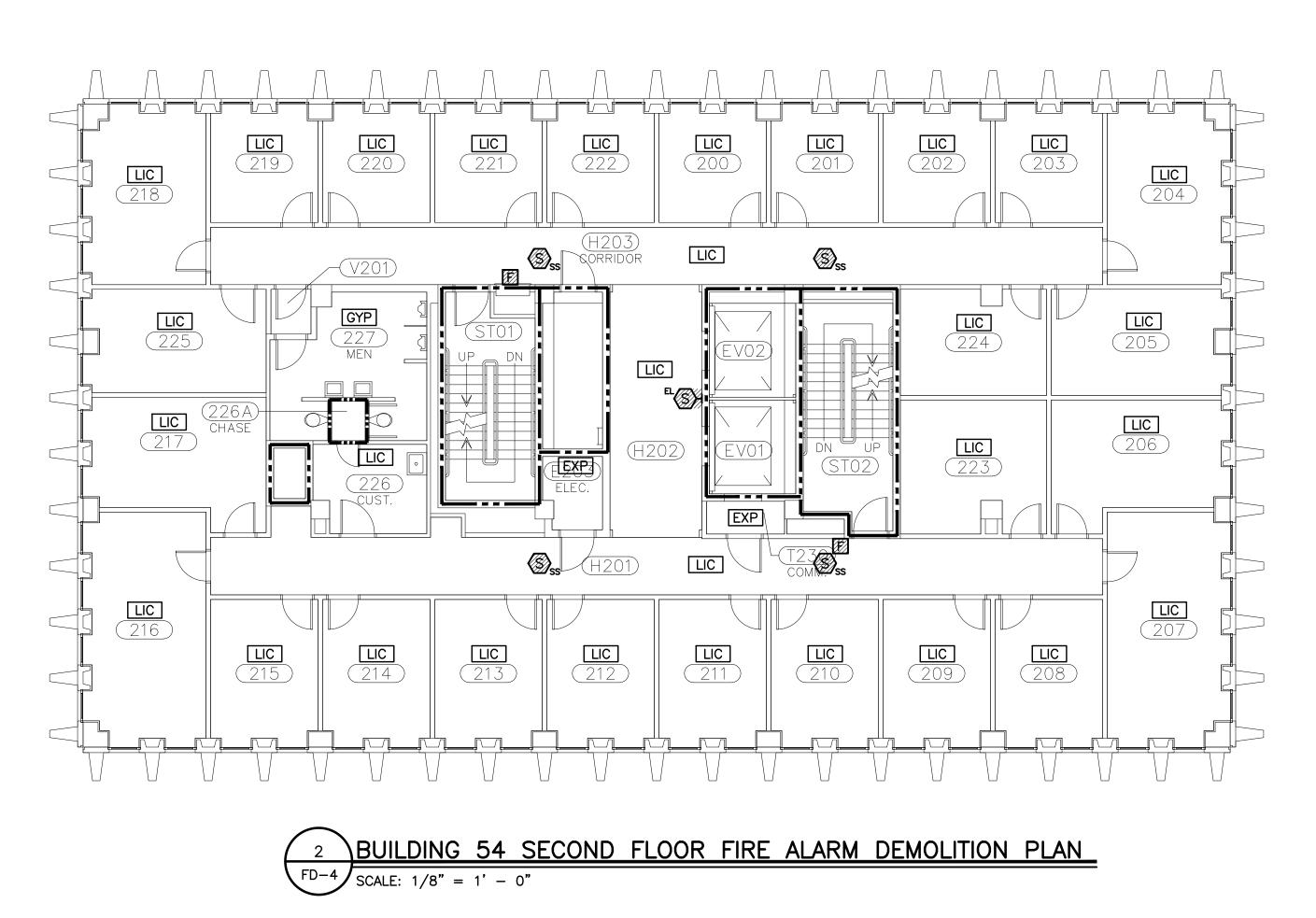
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- 3. TYPES ARE REFERENCED FOR INFORMATION PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE TO FIELD DETERMINE ALL BUILDING FEATURES.

<u>key notes</u> (#)

1. FIRE SPRINKLER PIPING WITH VALVE. VALVE IS NOT SUPERVISED.

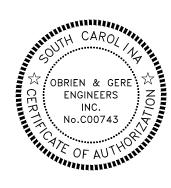
#### ASBESTOS HAZARDS MATERIALS NOTES:

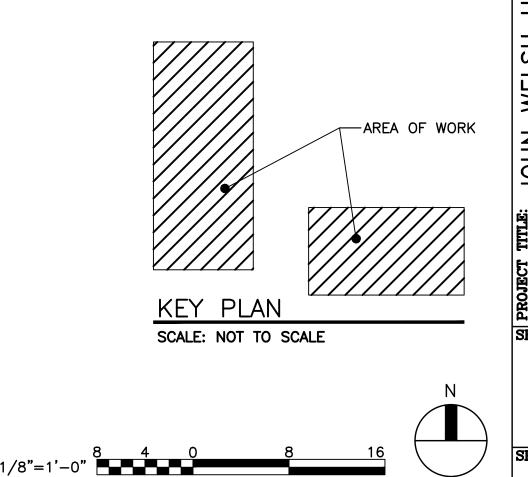
1. OFFICE BUILDING #54:

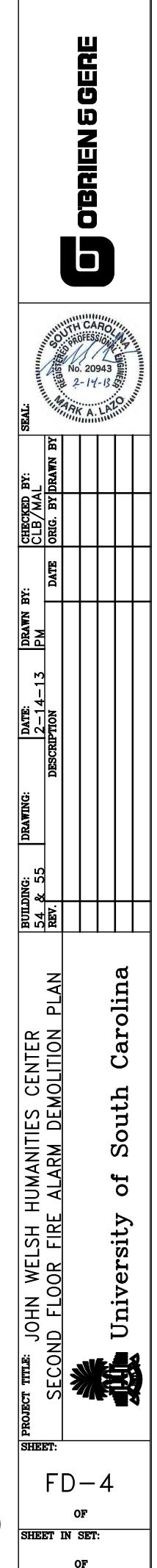
- A. JOINT COMPOUND TESTS POSITIVE FOR ASBESTOS CONTAINING MATERIALS.
- B. POPCORN TEXTURE CEILING SPRAY AT ELEVATORS TESTS POSITIVE FOR ASBESTOS CONTAINING MATERIALS.
- C. THERE IS ASBESTOS BLACK MASTIC ON THE HVAC DUCTS IN THE ENTIRE BUILDING AS WELL AS ON THE WATER LINES ABOVE THE CEILING IN THE BUILDING.
- D. THE FLOOR TILES IN THE HALLS AND UNDER CARPET IN THE BUILDING (9x9), AS WELL AS THE BLACK MASTIC THAT HOLDS IT TO THE CONCRETE TESTS POSITIVE FOR ASBESTOS CONTAINING MATERIALS.

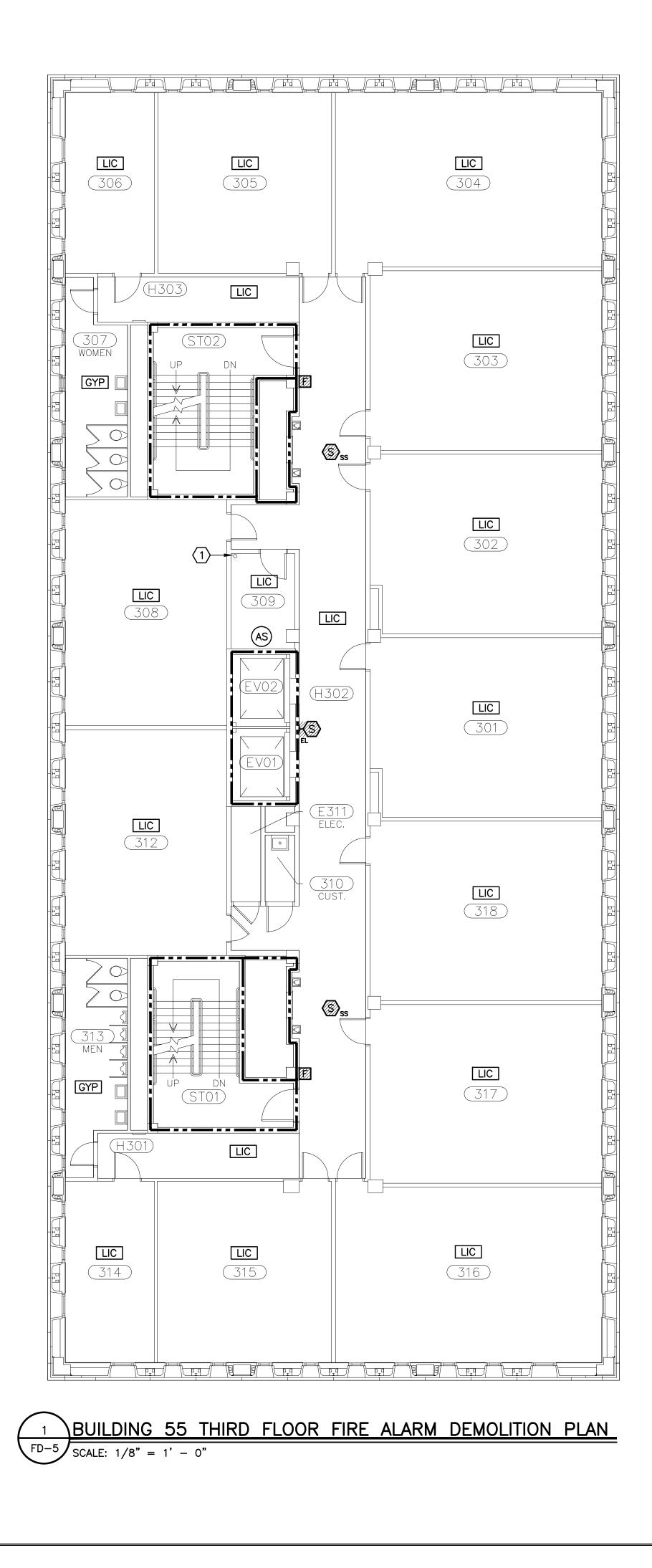
2. CLASSROOM #55:

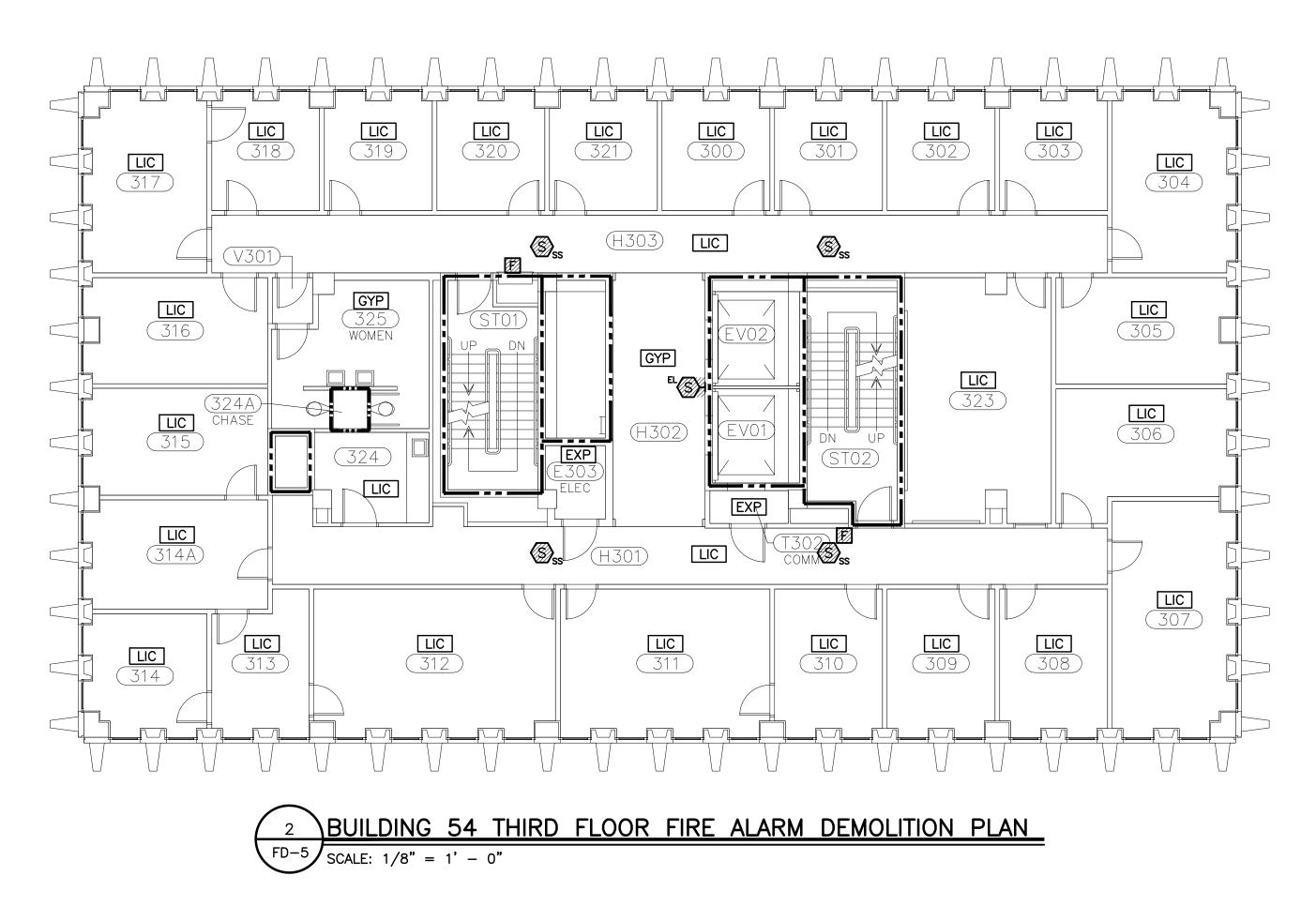
- A. JOINT COMPOUND TESTS POSITIVE FOR ASBESTOS CONTAINING MATERIALS.
- B. THERE IS ASBESTOS FLOOR TILE AND MASTIC (9x9 AND BLACK) INSIDE EACH ROOM CONCEALED UNDER CARPET AND NOT CONCEALED THAT SHOULD NOT BE DISTURBED.











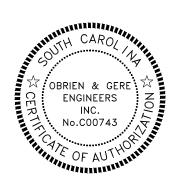


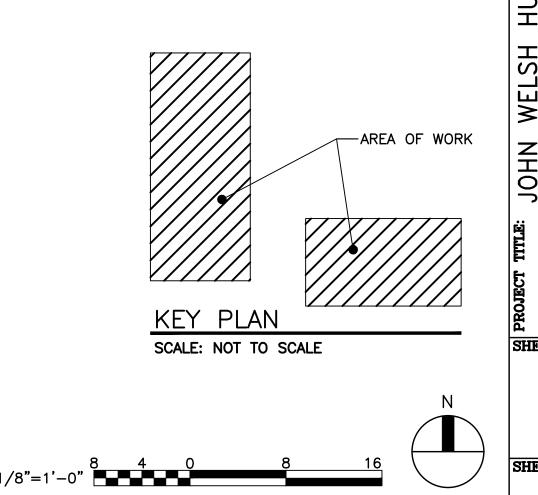
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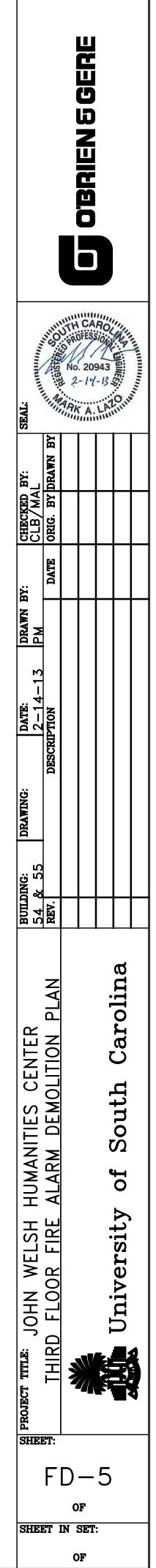
#### ASBESTOS HAZARDS MATERIALS NOTES:

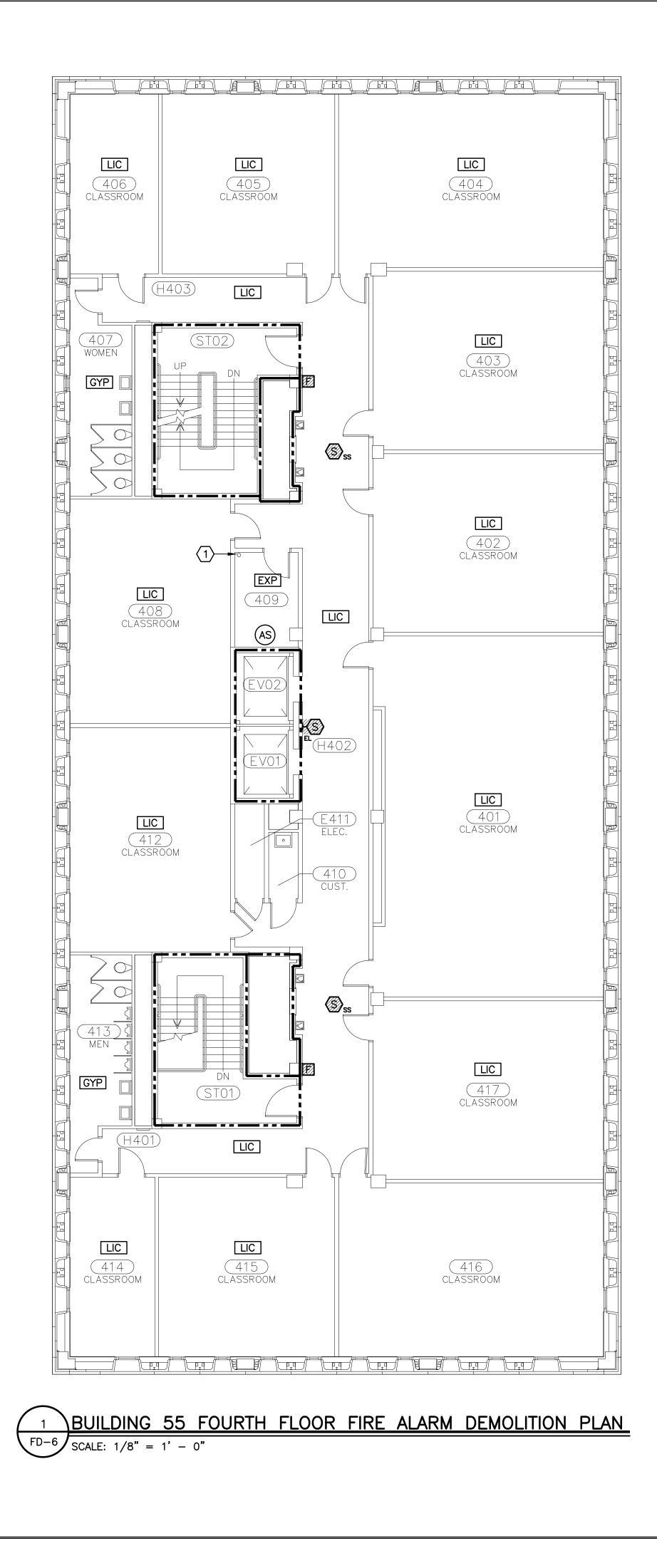
1. OFFICE BUILDING #54:

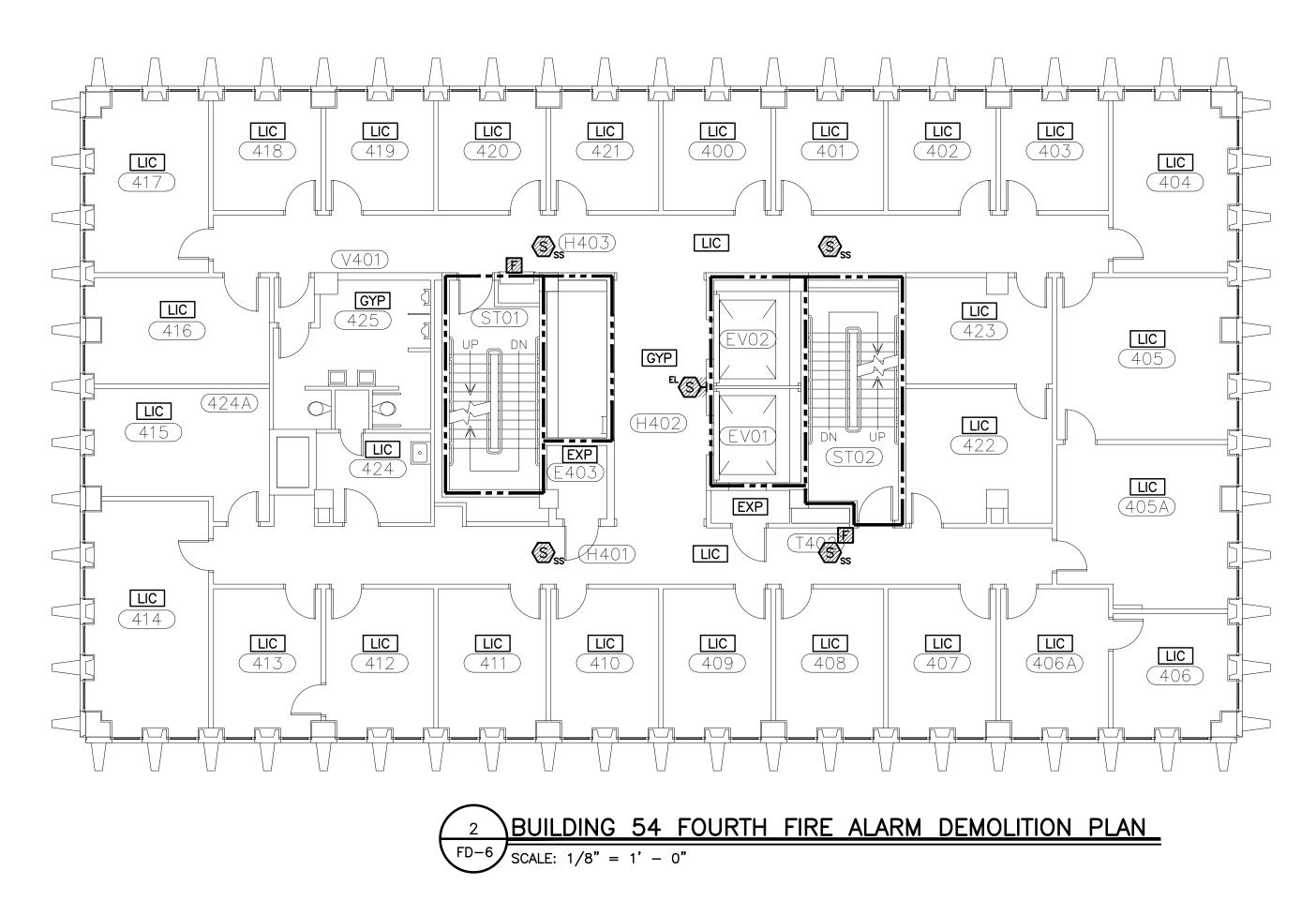
- A. JOINT COMPOUND TESTS POSITIVE FOR ASBESTOS CONTAINING MATERIALS.
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- C. THERE IS ASBESTOS BLACK MASTIC ON THE HVAC DUCTS IN THE ENTIRE BUILDING AS WELL AS ON THE WATER LINES ABOVE THE CEILING IN THE BUILDING.
- D. THE FLOOR TILES IN THE HALLS AND UNDER CARPET IN THE BUILDING (9x9), AS WELL AS THE BLACK MASTIC THAT HOLDS IT TO THE CONCRETE TESTS POSITIVE FOR ASBESTOS CONTAINING MATERIALS.
- 2. CLASSROOM #55: A. JOINT COMPOUND TESTS POSITIVE FOR ASBESTOS
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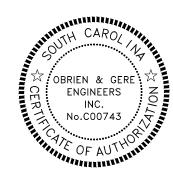


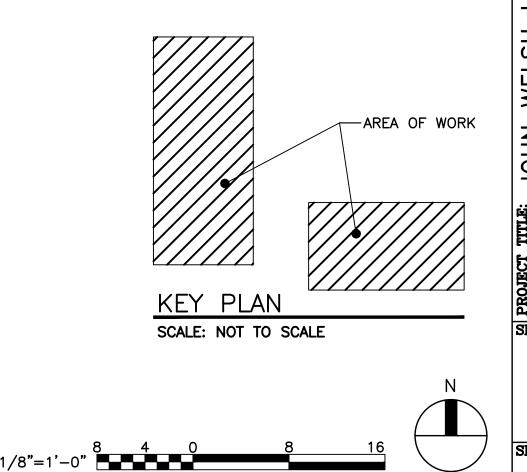
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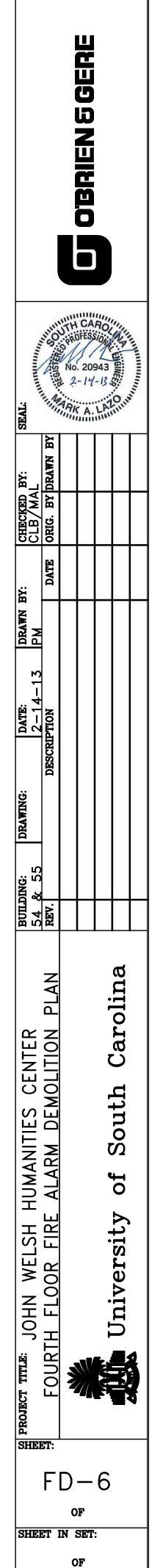
#### KEY NOTES (#)

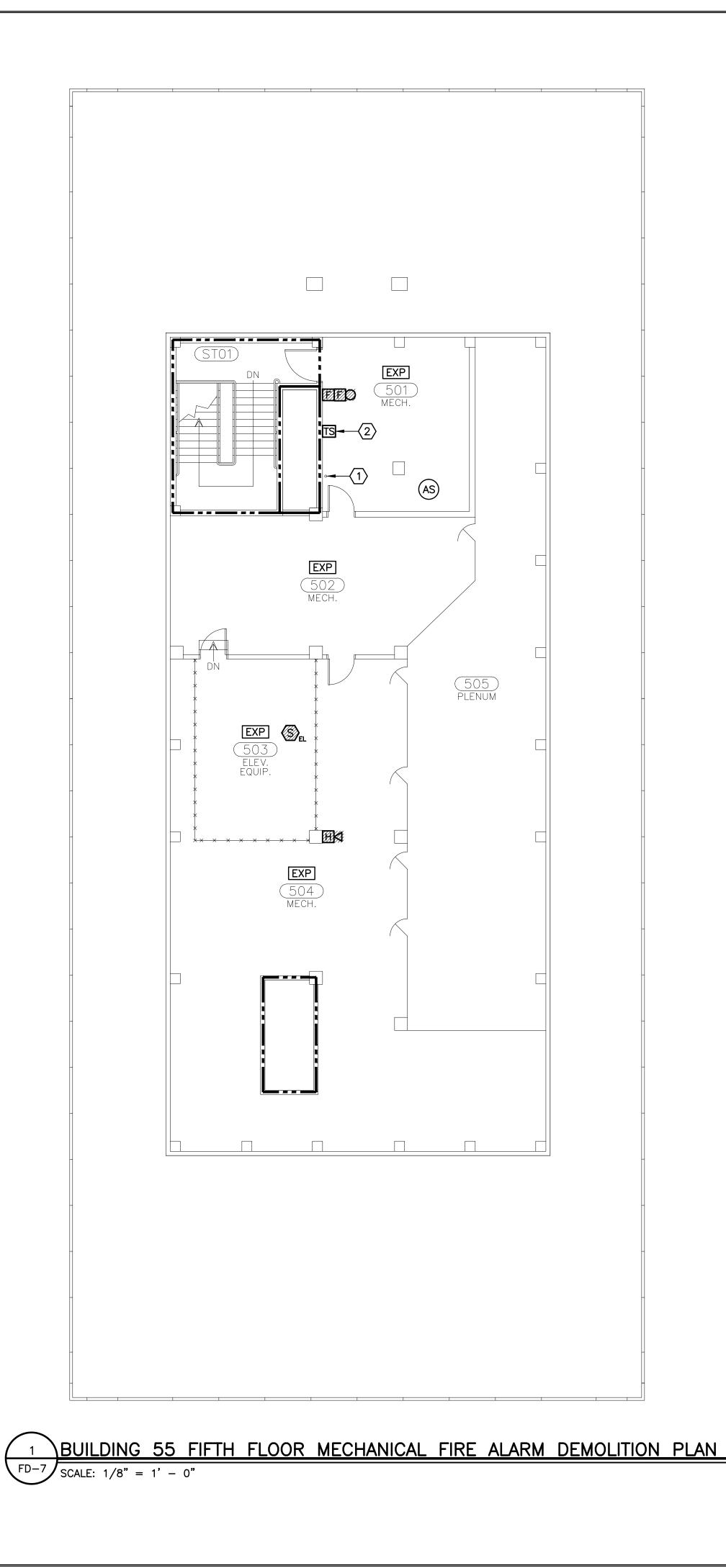
1. FIRE SPRINKLER PIPING WITH VALVE. VALVE IS NOT SUPERVISED.

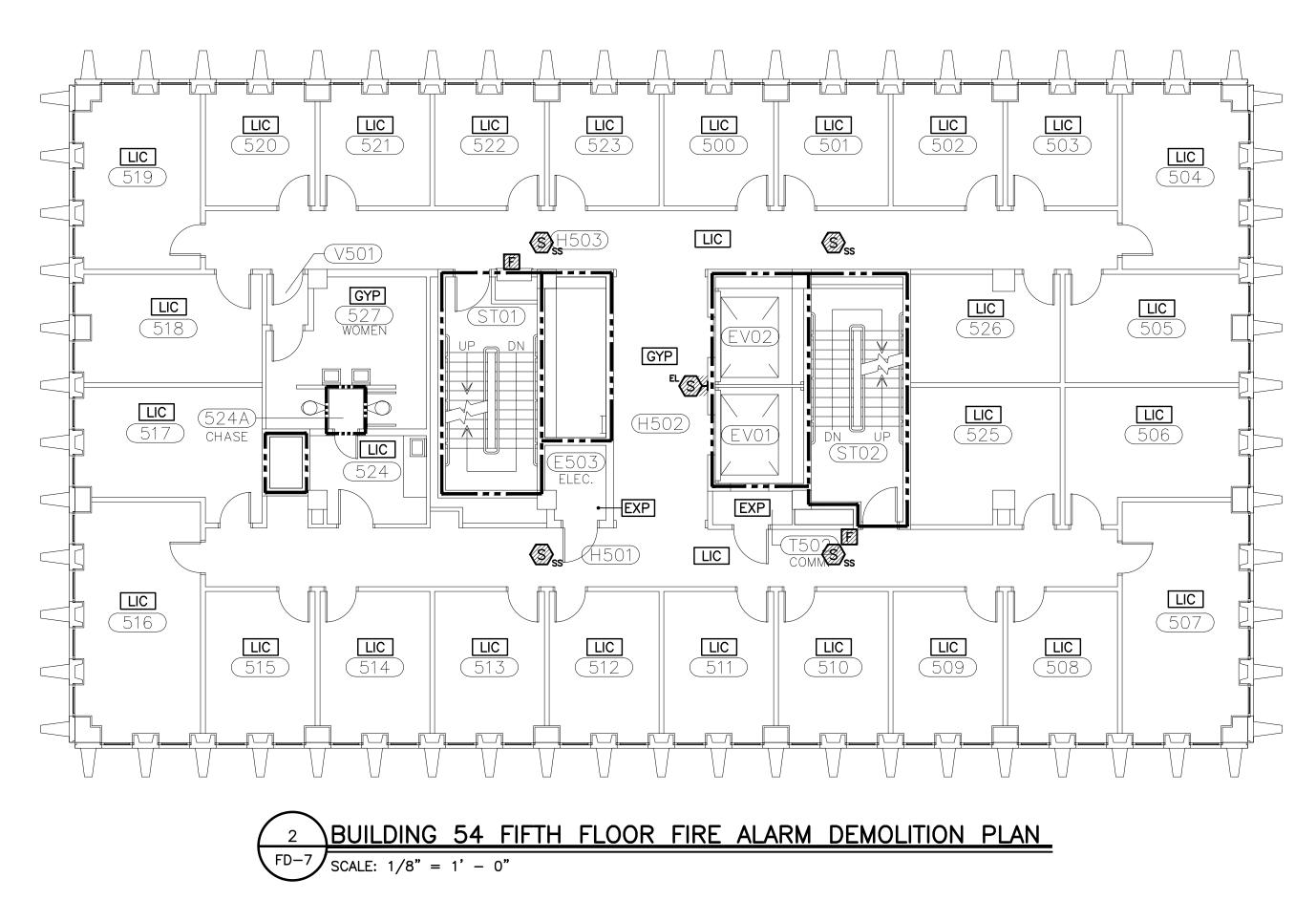
- 1. OFFICE BUILDING #54:
- A. JOINT COMPOUND TESTS POSITIVE FOR ASBESTOS CONTAINING MATERIALS.
  B. POPCORN TEXTURE CEILING SPRAY AT ELEVATORS
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- 2. CLASSROOM #55:
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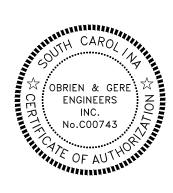
- 1. THIS LEVEL OF BUILDING 54 IS NOT PROVIDED WITH FIRE SPRINKLER PROTECTION.
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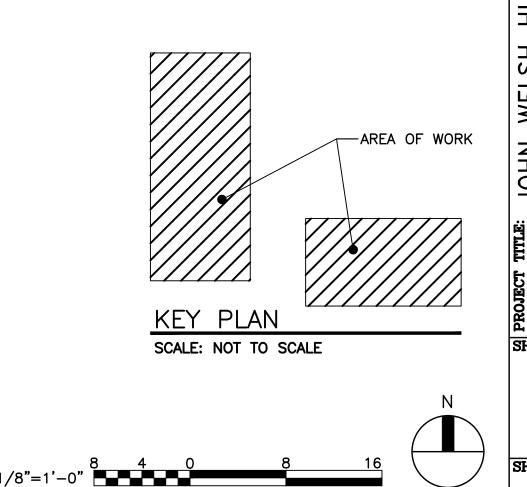
#### KEY NOTES (#)

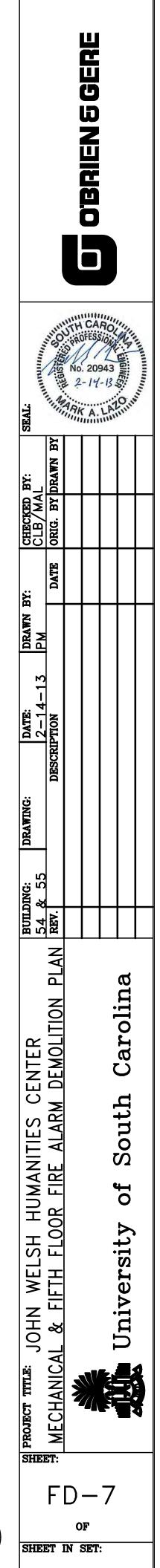
- 1. FIRE SPRINKLER PIPING WITH VALVE. VALVE IS NOT SUPERVISED.
- 2. EXISTING DEVICE TO REMAIN.

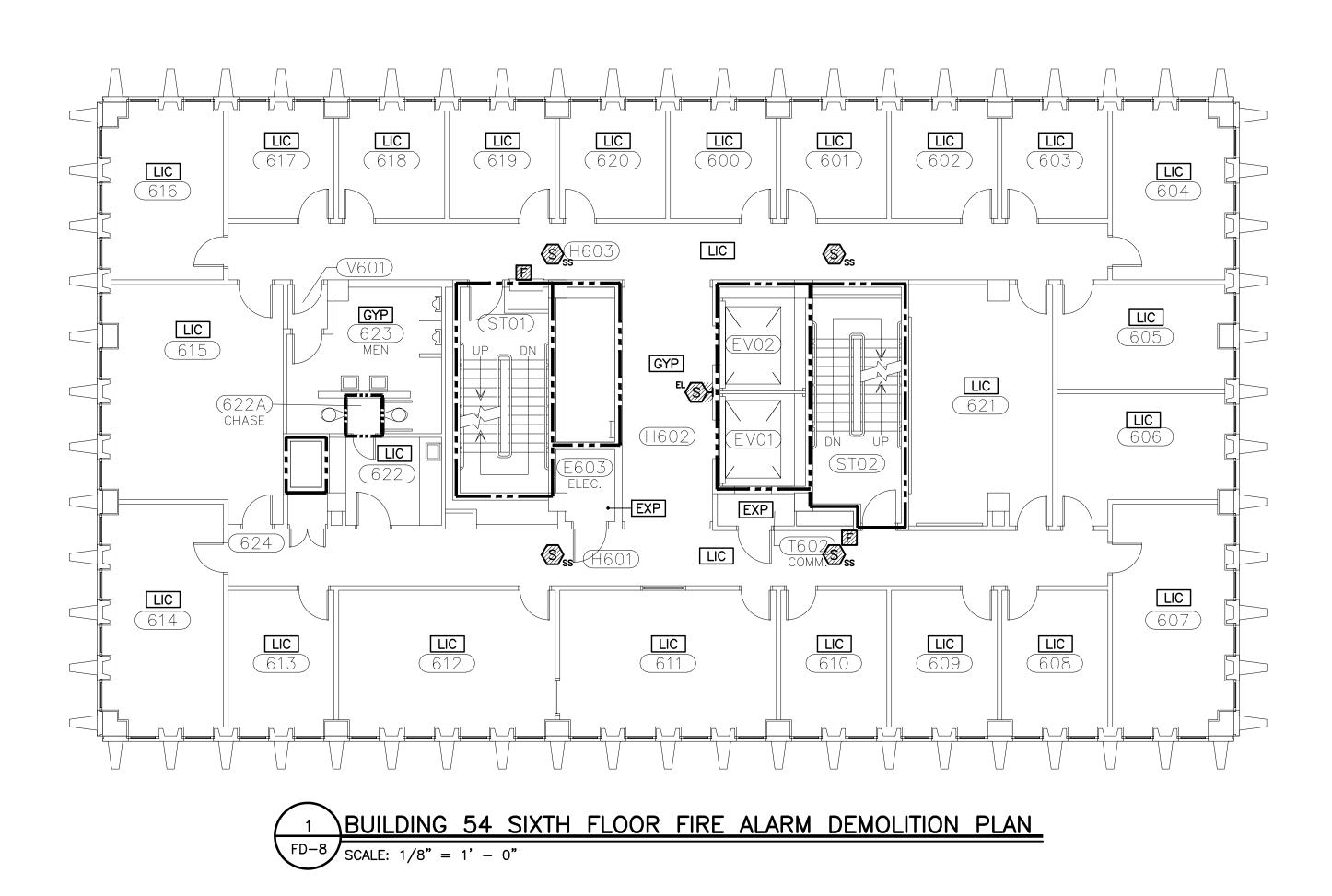
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- 1. OFFICE BUILDING #54: A. JOINT COMPOUND TESTS POSITIVE FOR ASBESTOS
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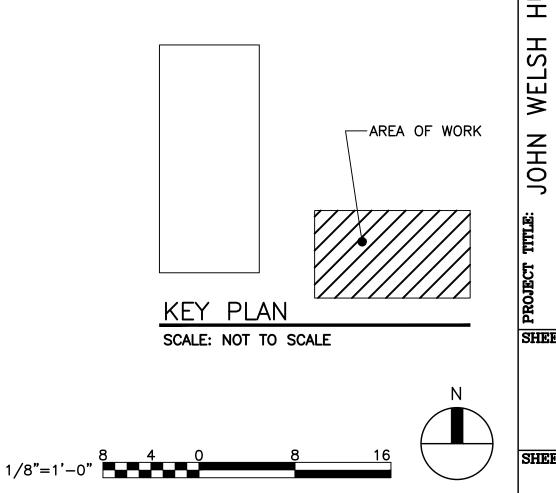


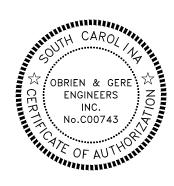


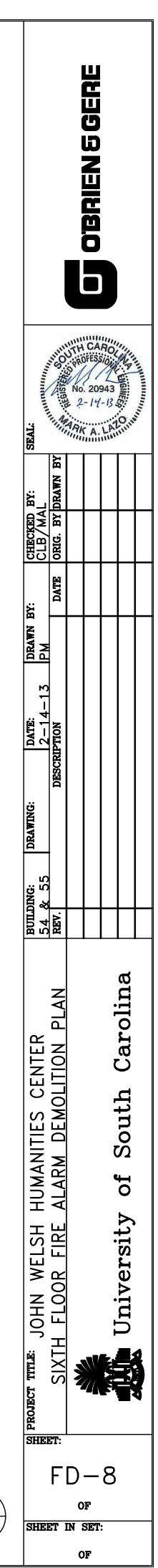


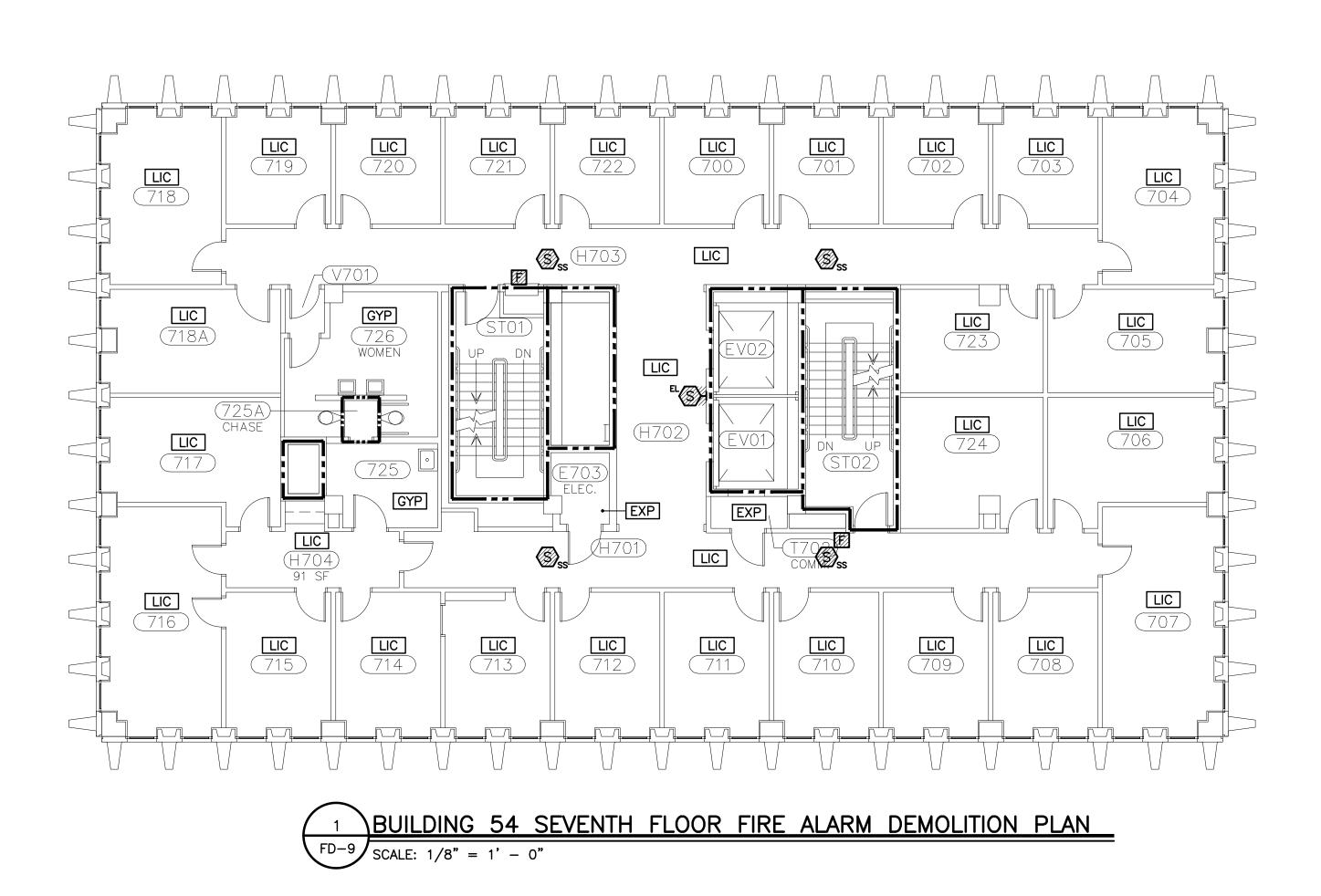
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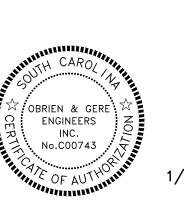


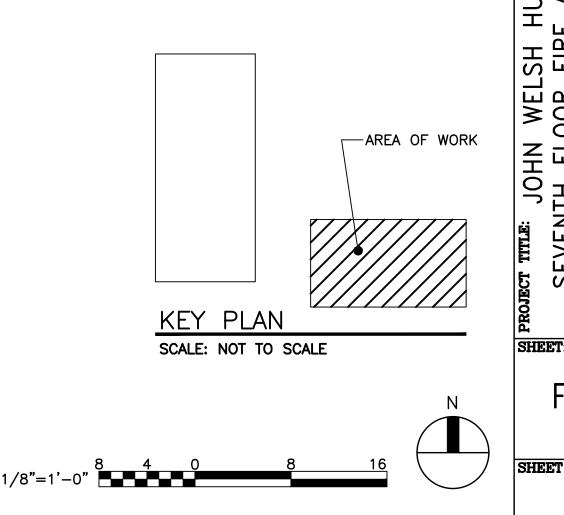


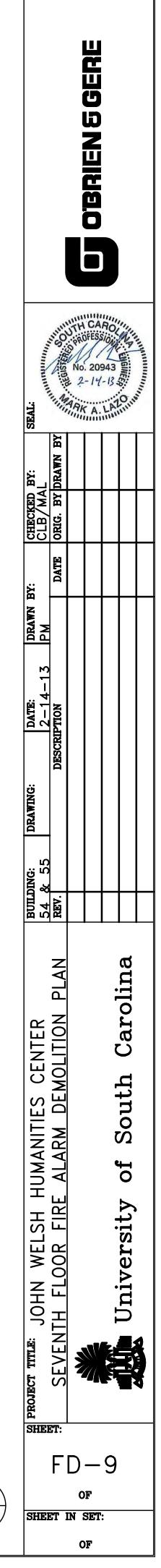


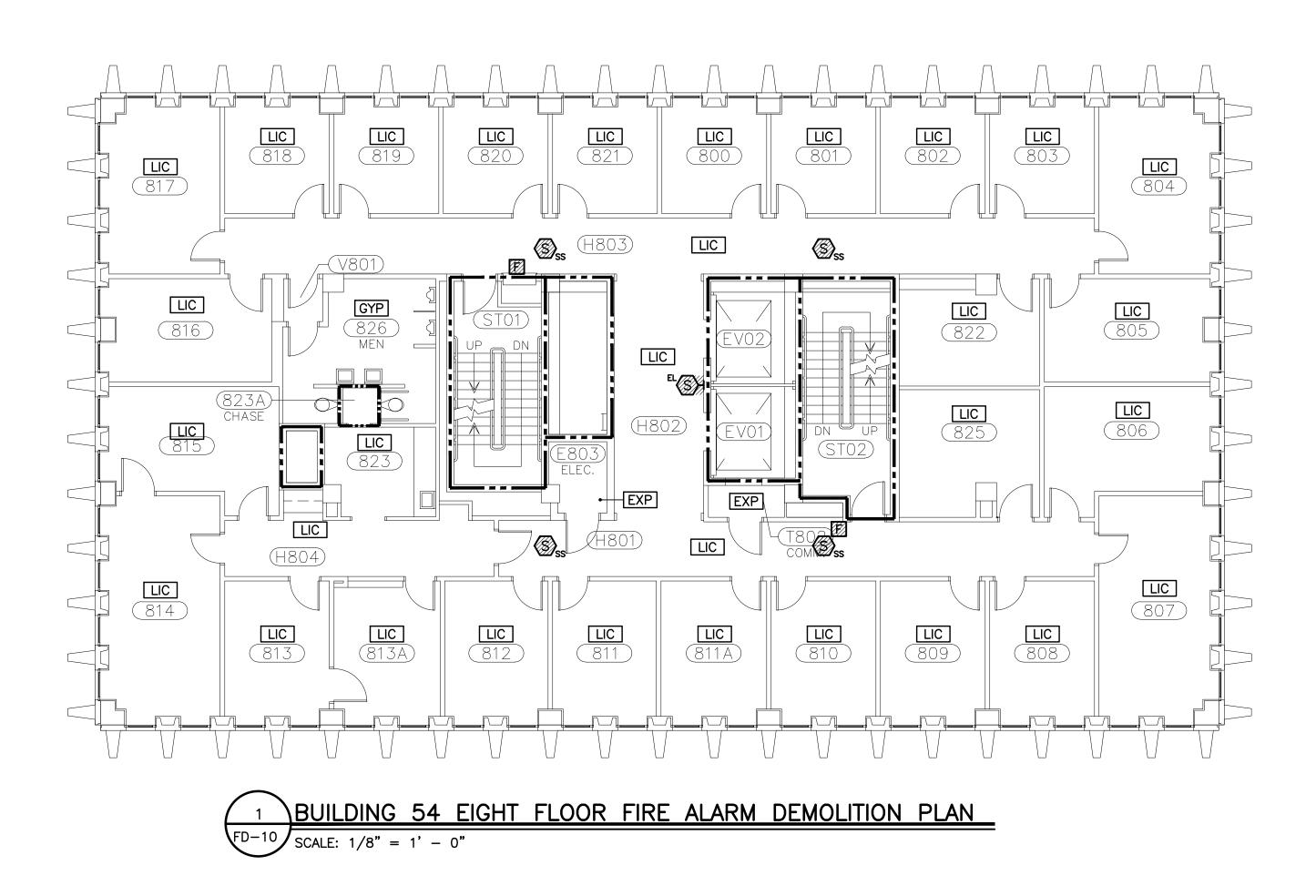
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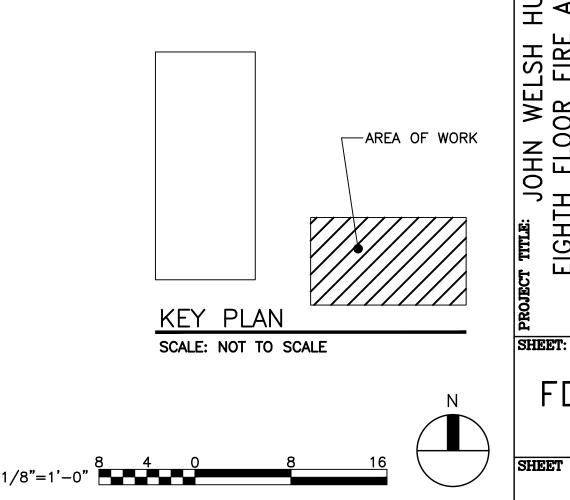


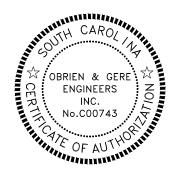


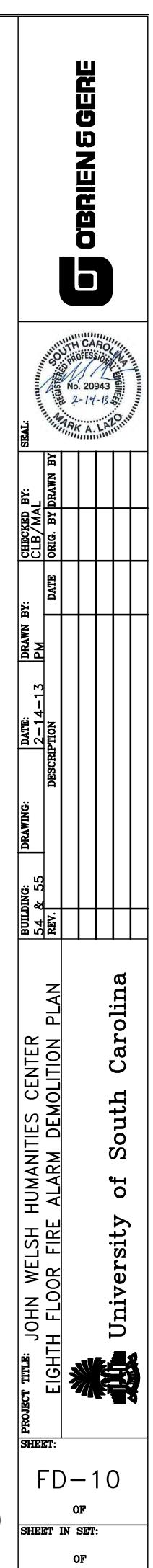


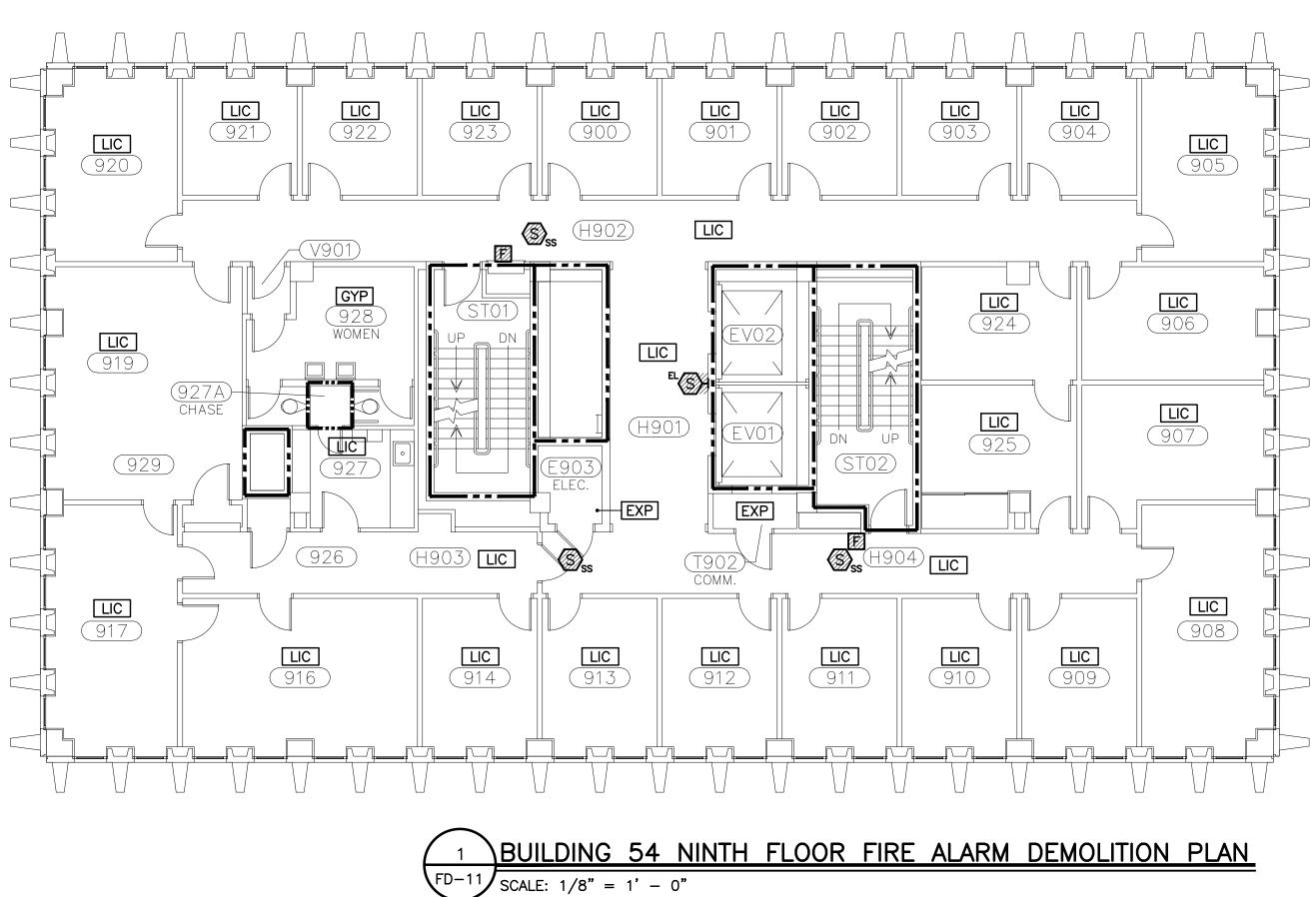
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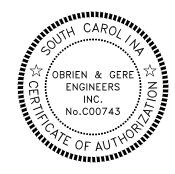


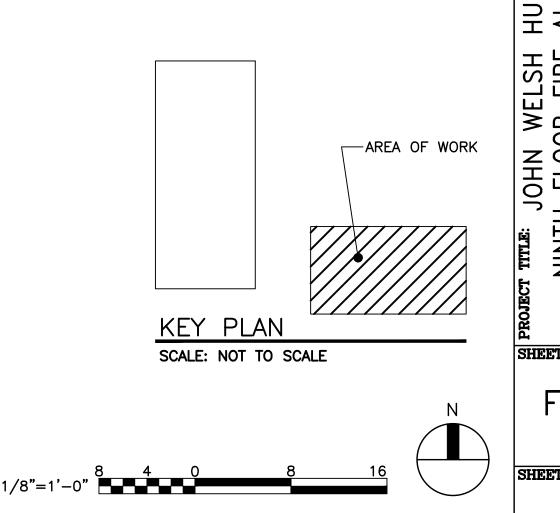


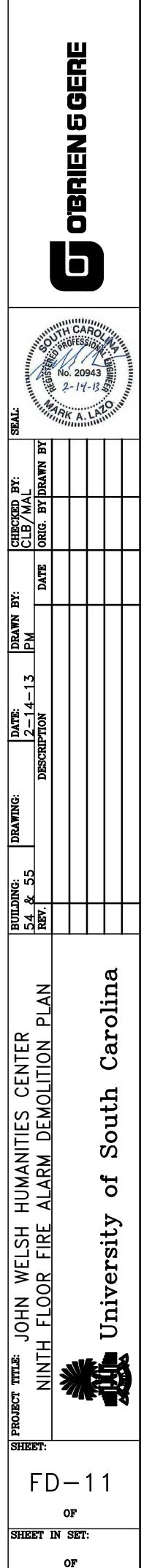


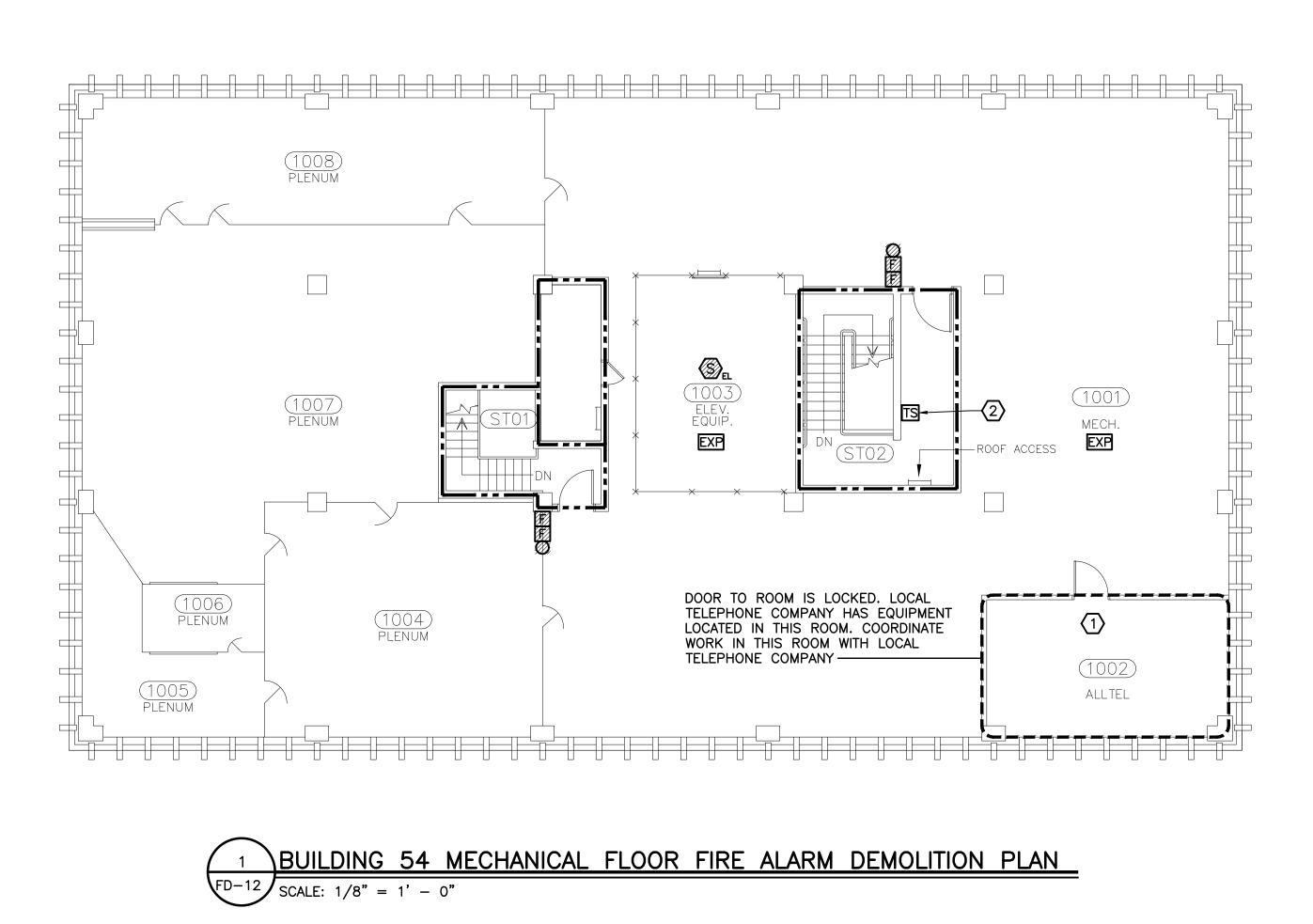
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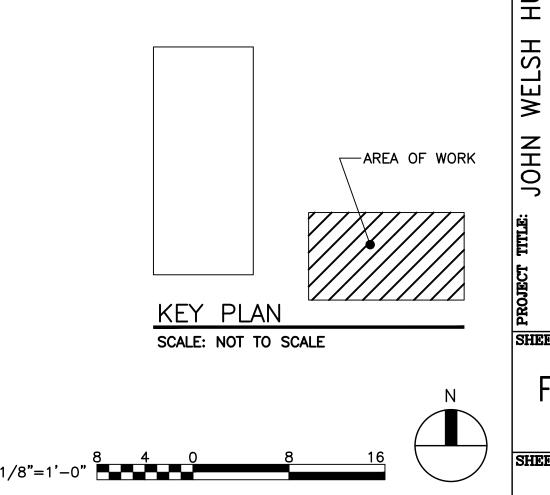
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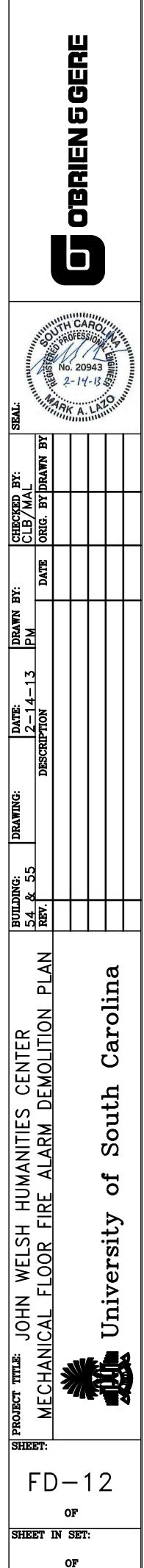
#### <u>Key notes:</u>

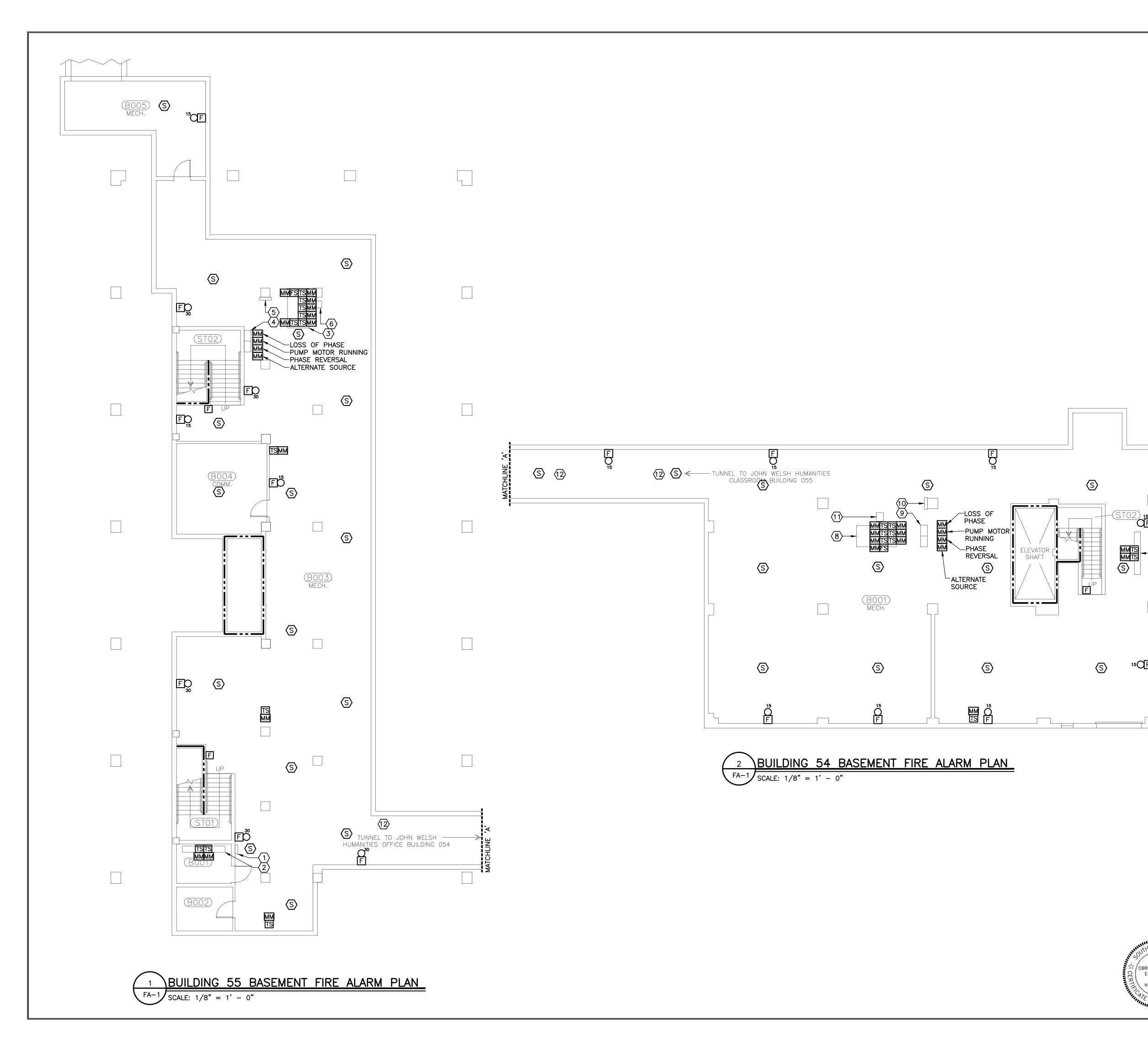
- 1. EXISTING FM-200 SYSTEM TO REMAIN.
- 2. EXISTING DEVICE TO REMAIN.

- 1. OFFICE BUILDING #54:
- A. JOINT COMPOUND TESTS POSITIVE FOR ASBESTOS CONTAINING MATERIALS.
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#### <u>GENERAL NOTES</u>

- 1. THIS LEVEL IS NOT PROVIDED WITH FIRE SPRINKLER PROTECTION.
- 2. ALL CEILINGS ARE EXPOSED TO STRUCTURE (EXP)
- 3. CEILING TYPES ARE REFERENCED FOR INFORMATION PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE TO
- FIELD DETERMINE ALL BUILDING FEATURES. 4. ALL EXISTING TAMPER SWITCHES AND WATER FLOW
- SWITCHES SHALL REMAIN, AND BE SUPERVISED BY FIRE ALARM SYSTEM.
- 5. SMOKE DETECTORS LOCATED NEAR STEAM PIPES MAY BE REQUIRED TO BE HEAT DETECTORS. CONTRACTOR SHALL CONSIDER AND INCLUDE HEAT DETECTION AND PROVIDE IF NECESSARY AND AS REQUIRED TO AVOID FALSE ALARMS.

#### KEY NOTES (#)

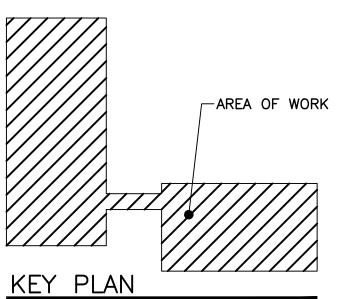
- 1. ELECTRIC PANEL BEL, 120/208V, 3-PH, 4-WIRE BREAKER NO. 1 & 3 FOR FIRE ALARM. BREAKER(S) SHALL BE IDENTIFIED AS "FIRE ALARM CIRCUIT" IN THE PANEL BOARD DIRECTORY. PROVIDE WITH RED MARKING MECHANICALLY SECURED. THE LOCATION OF THE DEDICATED BRANCH CIRCUIT SHALL BE IDENTIFIED AT THE CONTROL UNIT.
- 2. EXISTING BACKFLOW PREVENTION DEVICE (BFPD) FOR BUILDING 55.
- 3. EXISTING ELECTRICAL DRIVEN FIRE PUMP UNIT FOR BUILDING 55.
- 4. EXISTING FIRE PUMP CONTROLLER FOR BUILDING 55.
- 5. EXISTING JOCKEY PUMP CONTROLLER FOR BUILDING 55.
- 6. EXISTING JOCKEY PUMP FOR BUILDING 55.
- 7. EXISTING BACKFLOW PREVENTION DEVICE (BFPD) FOR BUILDING 54.
- 8. EXISTING ELECTRICAL DRIVEN FIRE PUMP UNIT FOR BUILDING 54.
- 9. EXISTING FIRE PUMP CONTROLLER FOR BUILDING 54.
- 10. EXISTING JOCKEY PUMP CONTROLLER FOR BUILDING 54.
- 11. EXISTING JOCKEY PUMP FOR BUILDING 54.
- 12. THE DEVICES LOCATED IN THE TUNNEL SHALL CAUSE A GENERAL ALARM IN BOTH BUILDINGS. ALL OTHER DEVICES SHALL ALARM THE BUILDING IT SERVES.

#### ASBESTOS HAZARDS MATERIALS NOTES:

1. OFFICE BUILDING #54:

- A. JOINT COMPOUND TESTS POSITIVE FOR ASBESTOS CONTAINING MATERIALS. B. POPCORN TEXTURE CEILING SPRAY AT ELEVATORS
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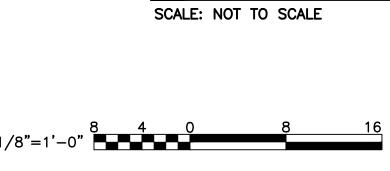
- 2. CLASSROOM #55: A. JOINT COMPOUND TESTS POSITIVE FOR ASBESTOS CONTAINING MATERIALS.
- B. THERE IS ASBESTOS FLOOR TILE AND MASTIC (9×9 AND BLACK) INSIDE EACH ROOM CONCEALED UNDER CARPET AND NOT CONCEALED THAT SHOULD NOT BE DISTURBED.

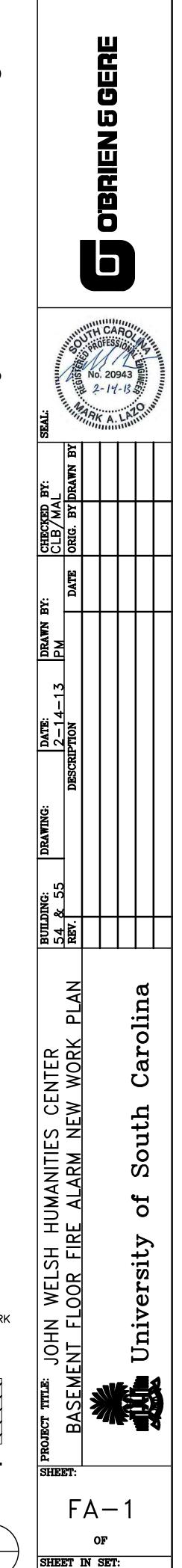


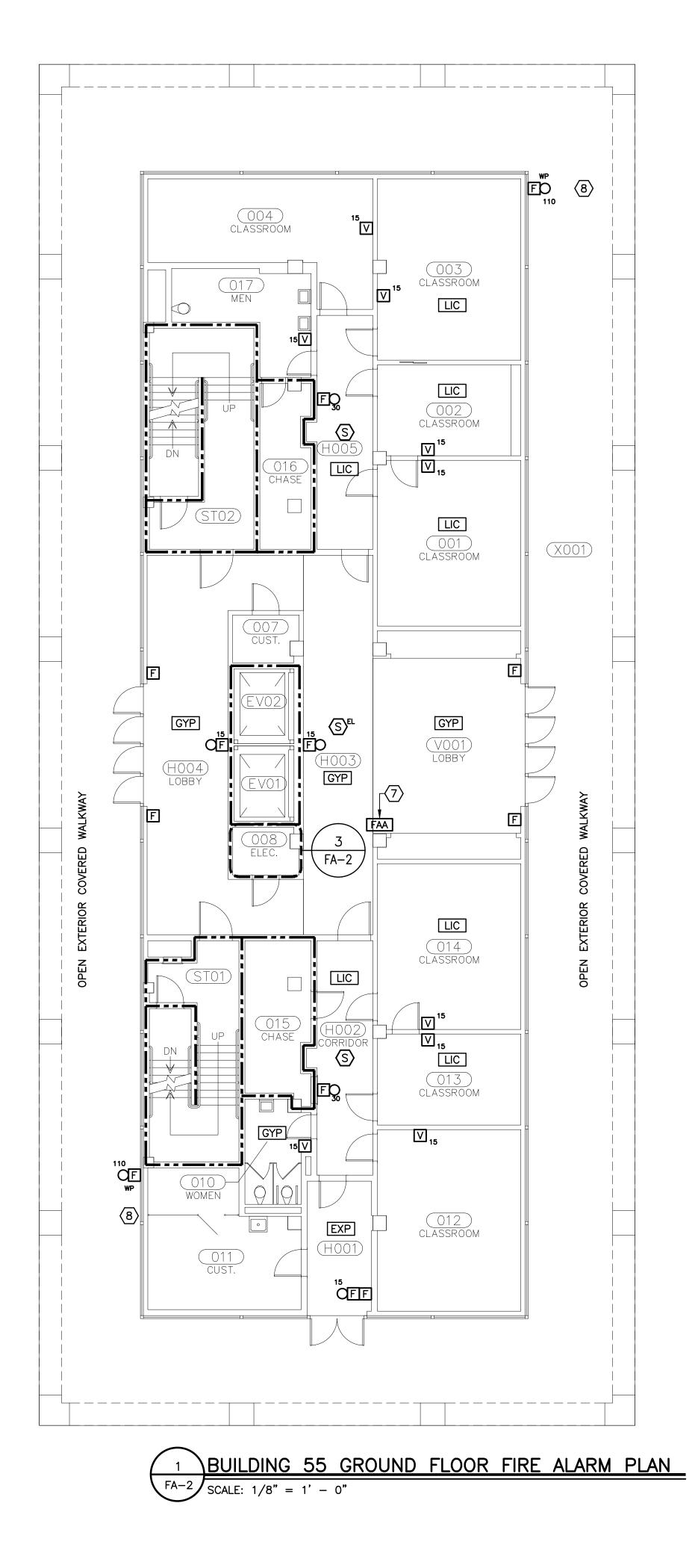


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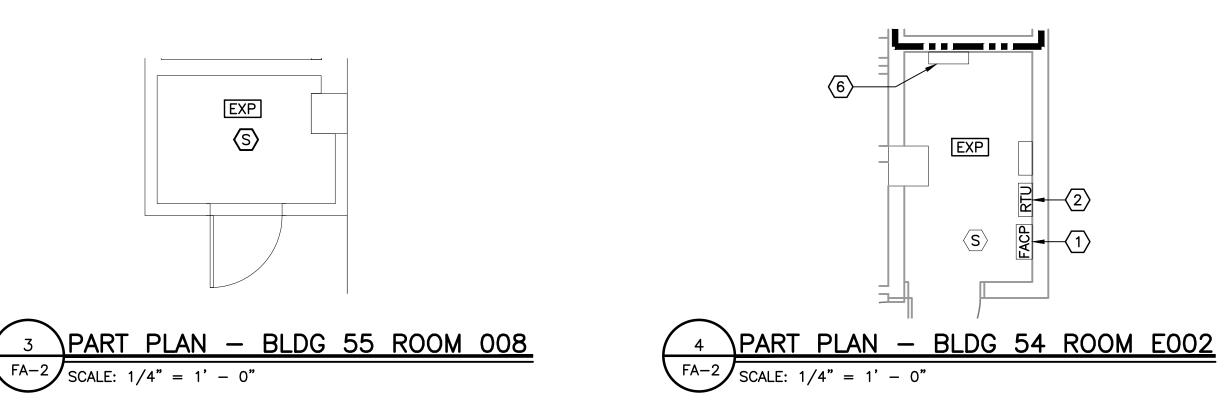
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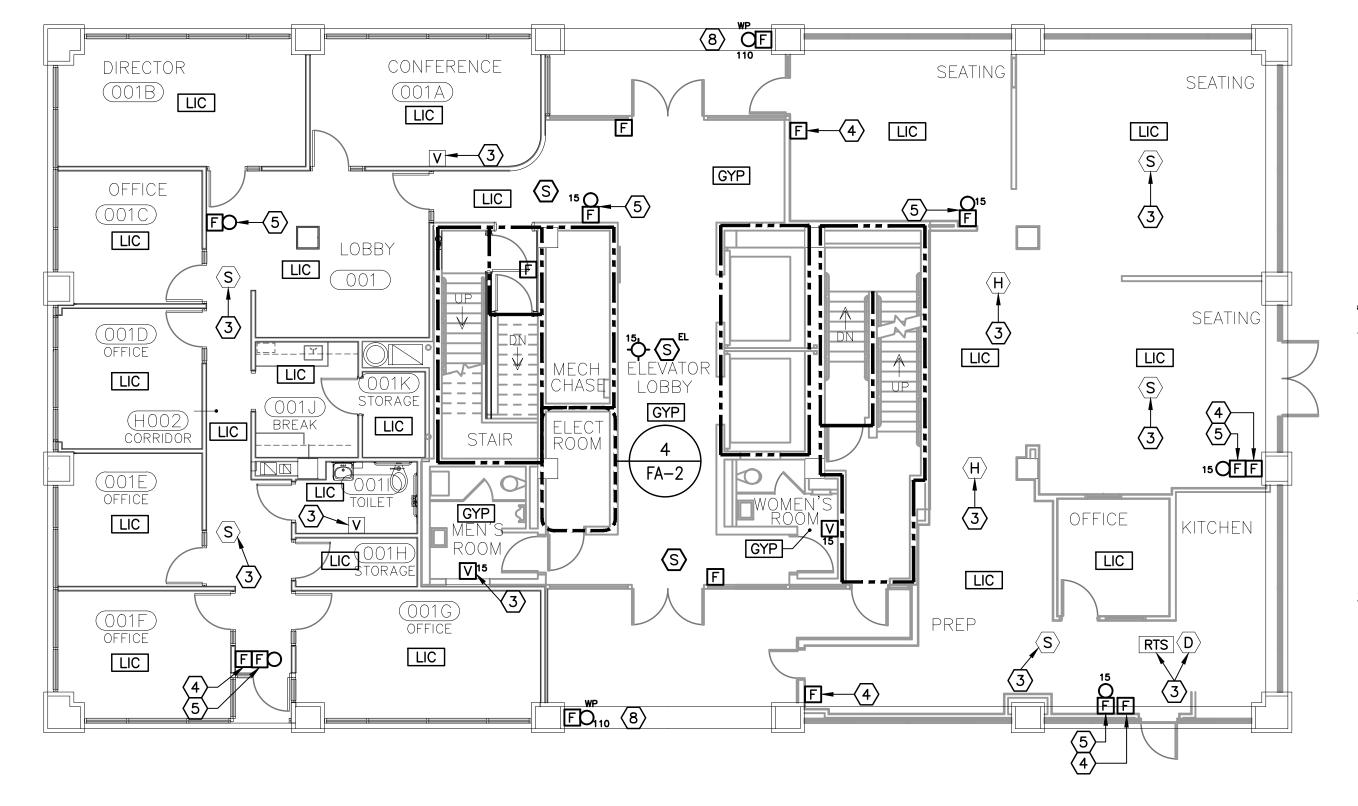






3





BUILDING 54 GROUND FLOOR FIRE ALARM PLAN FA-3 SCALE: 1/8" = 1' - 0"



- 1. THIS LEVEL IS NOT PROVIDED WITH FIRE SPRINKLER PROTECTION.
- 2. THERE ARE NO DEVICES LOCATED IN THE ELEVATOR PITS OF EITHER BUILDING ON THIS DRAWING.
- 3. NEW INITIATION DEVICES INDICATED ON THIS PLAN THAT DO NOT REPLACE AN EXISTING DEVICES SHALL BE CONNECTED TO THE NEAREST FIRE ALARM SIGNALING LINE CIRCUIT.
- 4. NEW NOTIFICATION APPLIANCES INDICATED ON THIS PLAN THAT DO NOT REPLACE AN EXISTING APPLIANCE SHALL BE CONNECTED TO THE NEAREST FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT.
- 5. FIRE RESISTANCE RATING (FRR) OF WALL/FLOOR ASSEMBLIES ARE PROVIDED FOR INFORMATIONAL PURPOSES AND SURMISED TO BE AS INDICATED. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE FRR WALL/FLOOR ASSEMBLIES SHOWN. ALL PENETRATIONS OF WALL/FLOOR FRR ASSEMBLIES SHALL BE PROVIDED WITH A UL LISTED OR APPROVED FIRESTOPPING ASSEMBLY EQUAL TO THE FRR OF THE WALL/FLOOR.
- 6. CEILING TYPES ARE REFERENCED FOR INFORMATION PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE TO FIELD DETERMINE ALL BUILDING FEATURES.

#### <u>KEY NOTES</u> $\langle \# \rangle$

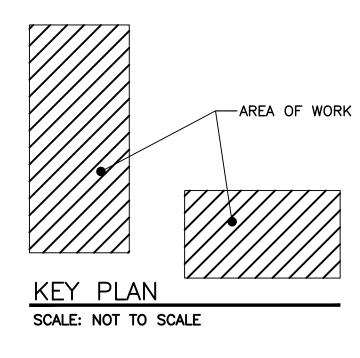
- 1. EXISTING SIMPLEX 4100U FIRE ALARM CONTROL PANEL TO REMAIN.
- 2. NEW TRANSMITTER UNIT AND ASSOCIATED ANTENNA TO BE PROVIDED BY THE FIRE ALARM INSTALLATION CONTRACTOR.
- 3. EXISTING DEVICE/APPLIANCE TO REMAIN.
- 4. NEW DOUBLE ACTION PULL STATION MOUNTED TO EXISTING BACKBOX. CONNECT TO EXISTING FIRE ALARM WIRING.
- 5. NEW SPEAKER/STROBE NOTIFICATION APPLIANCE MOUNTED TO EXISTING BACKBOX. CONNECT STOBE TO EXISTING FIRE ALARM WIRING AND PROVIDE NEW SPEAKER CIRCUIT.
- 6. ELECTRIC PANEL EGL, 120/208V, 3-PH, 4-WIRE. BREAKER 2 & 4 FOR FIRE ALARM. CONTRACTOR TO PROVIDE DEDICATED POWER BRANCH CIRCUIT(S) TO FACU AND RTU. BREAKER(S) SHALL BE IDENTIFIED AS "FIRE ALARM CIRCUIT" IN THE PANEL BOARD DIRECTORY. PROVIDE WITH RED MARKING MECHANICALLY SECURED. THE LOCATION OF THE DEDICATED BRANCH CIRCUIT SHALL BE IDENTIFIED AT THE CONTROL UNIT.
- 7. FIRE ALARM ANNUNCIATOR UNIT TO PROVIDE IDENTICAL FUNCTIONS AND DISPLAY INCLUDING MICROPHONE AS THE FIRE ALARM CONTROL PANEL. ANNUNCIATOR PANEL TO BE CONNECTED TO FIRE ALARM CONTROL UNIT LOCATED IN BUILDING 54, ELECTRICAL ROOM E002.
- 8. EXTERIOR DEVICES SHALL BE LOCATED AND PLACED UNDER BUILDING COVER TO PREVENT WATER EXPOSURE. CONTRACTOR SHALL COORDINATE LOCATION WITH THE USC FIRE MARSHAL AND USE FACILITIES DEPT AND COORDINATE WORK WITH BUILDING FEATURES AND OTHER TRADES.

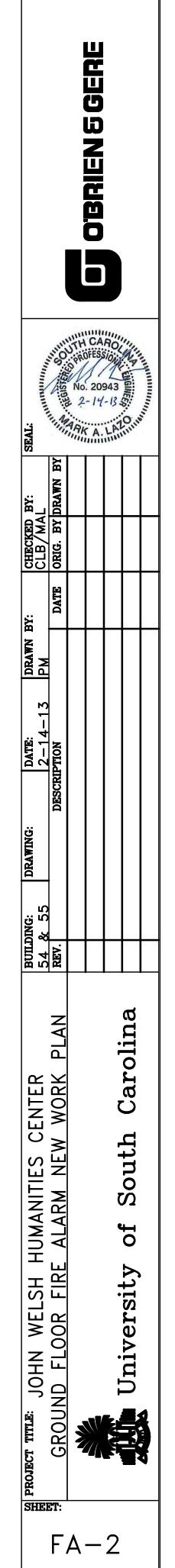
#### ASBESTOS HAZARDS MATERIALS NOTES:

- 1. OFFICE BUILDING #54:
- A. JOINT COMPOUND TESTS POSITIVE FOR ASBESTOS CONTAINING MATERIALS. B. POPCORN TEXTURE CEILING SPRAY AT ELEVATORS
- TESTS POSITIVE FOR ASBESTOS CONTAINING MATERIALS.
- C. THERE IS ASBESTOS BLACK MASTIC ON THE HVAC DUCTS IN THE ENTIRE BUILDING AS WELL AS ON THE WATER LINES ABOVE THE CEILING IN THE BUILDING.
- D. THE FLOOR TILES IN THE HALLS AND UNDER CARPET IN THE BUILDING (9x9), AS WELL AS THE BLACK MASTIC THAT HOLDS IT TO THE CONCRETE TESTS POSITIVE FOR ASBESTOS CONTAINING MATERIALS.

#### 2. CLASSROOM **#**55:

- A. JOINT COMPOUND TESTS POSITIVE FOR ASBESTOS CONTAINING MATERIALS.
- B. THERE IS ASBESTOS FLOOR TILE AND MASTIC (9x9 AND BLACK) INSIDE EACH ROOM CONCEALED UNDER CARPET AND NOT CONCEALED THAT SHOULD NOT BE DISTURBED.



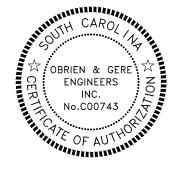


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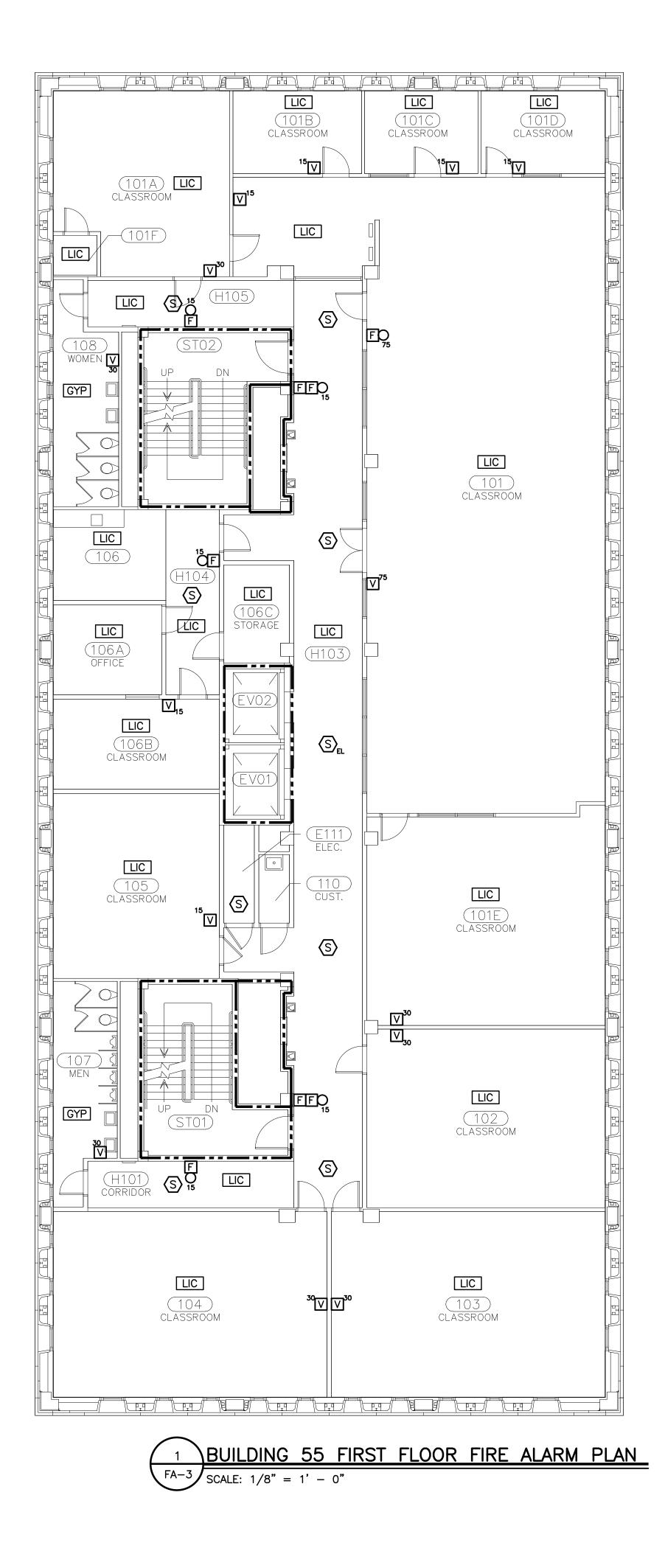
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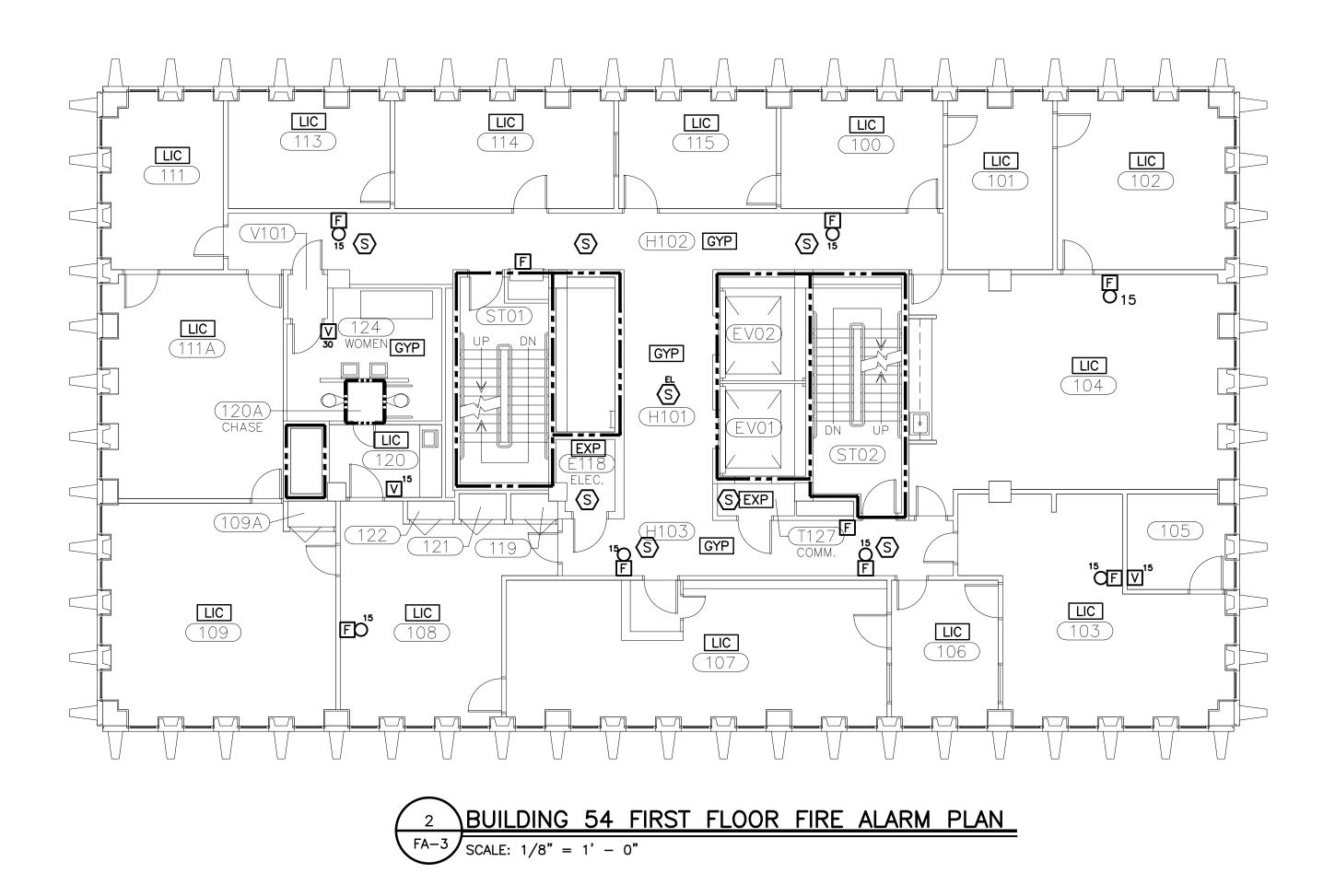
SHEET IN SET:





1/4''=1'-0

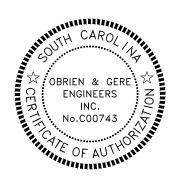


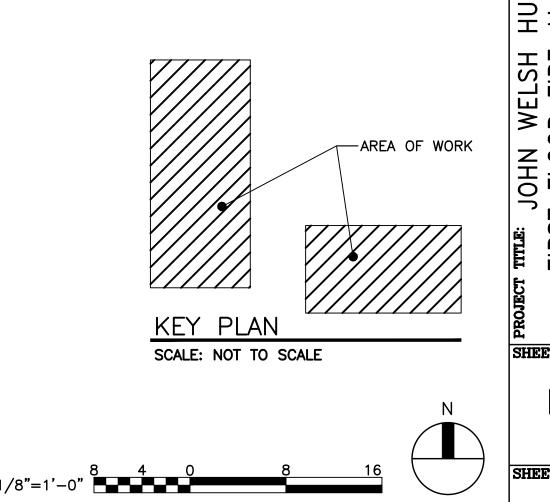


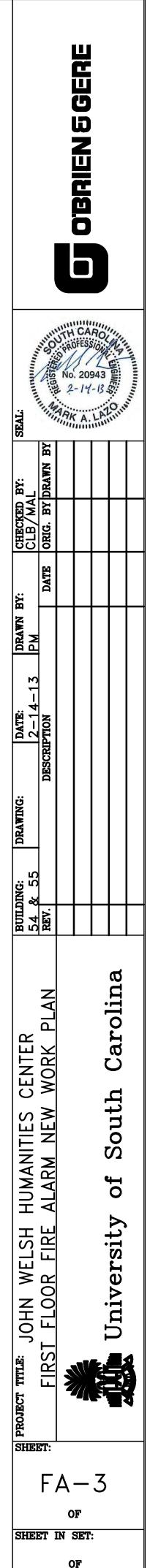


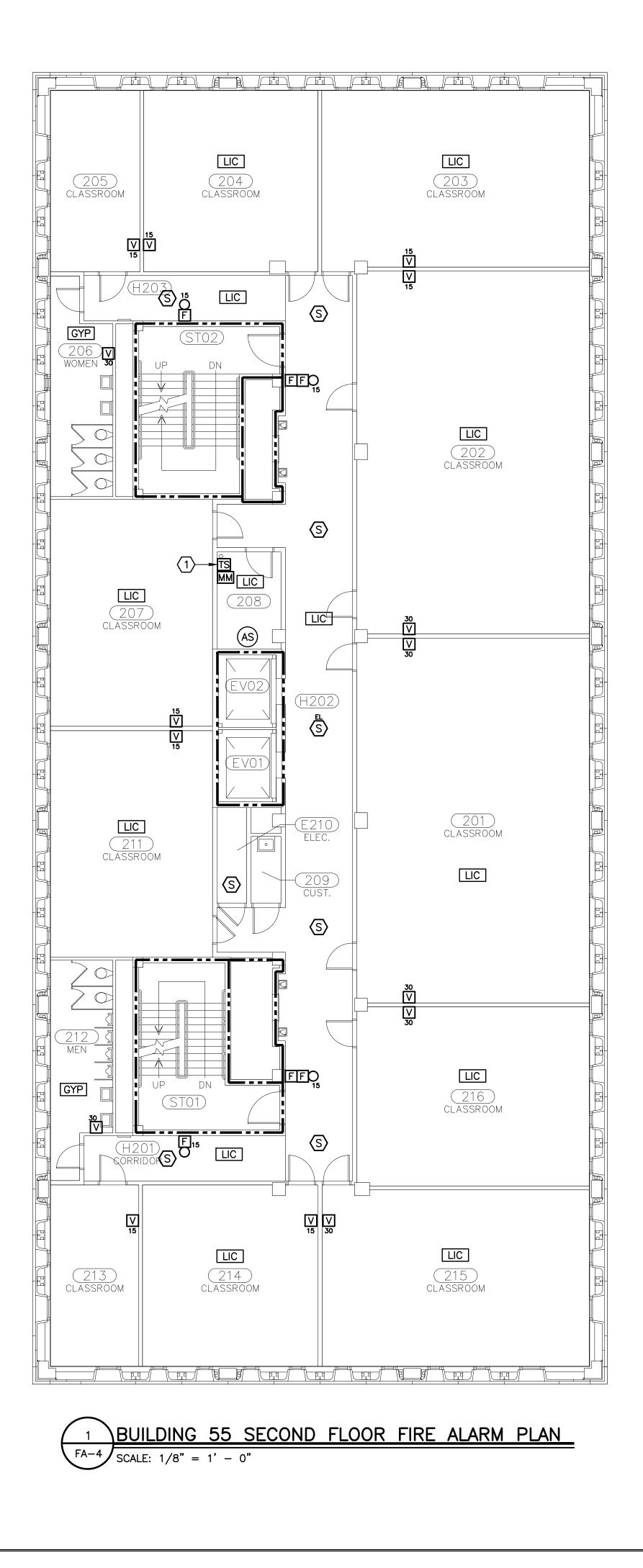
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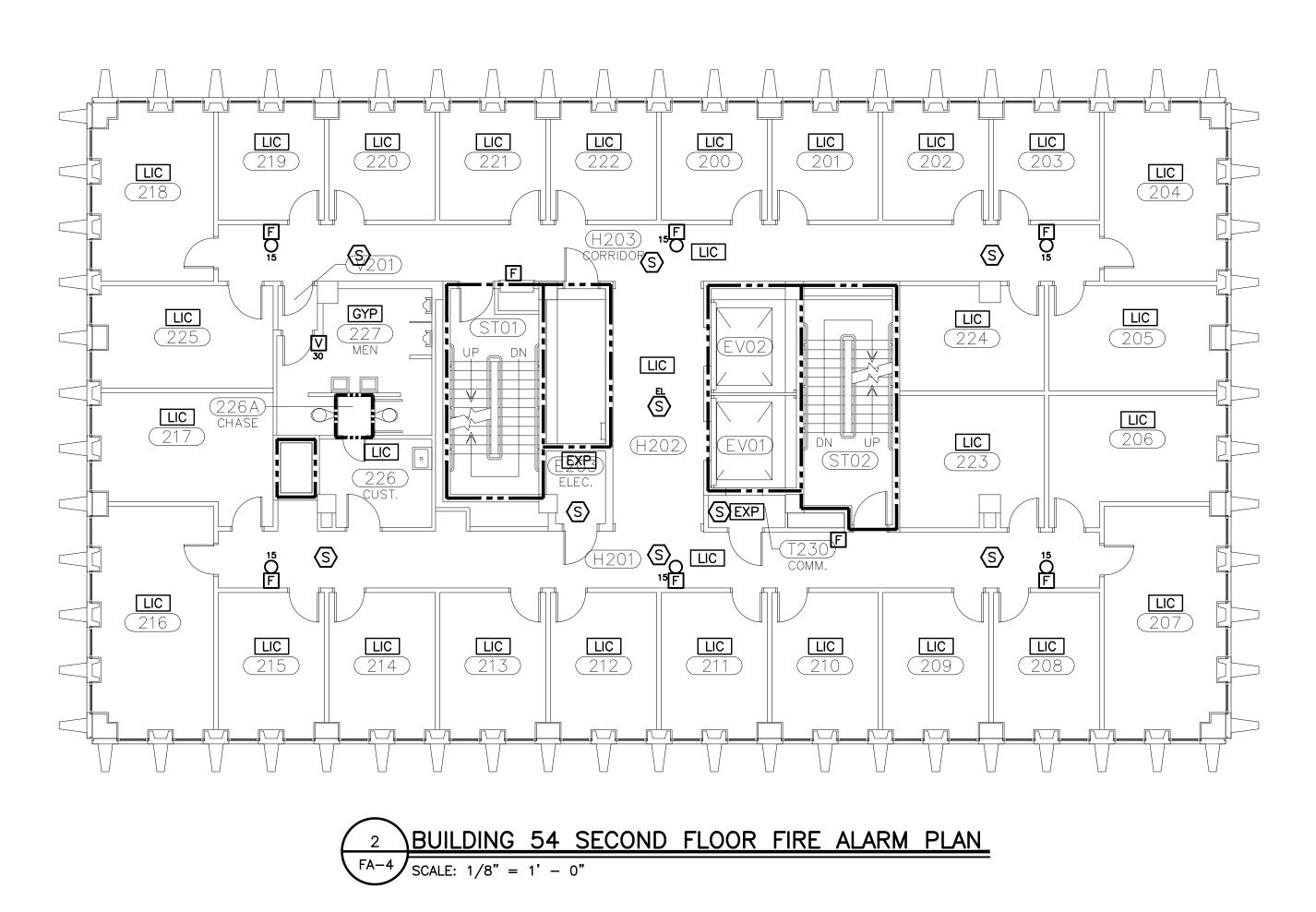
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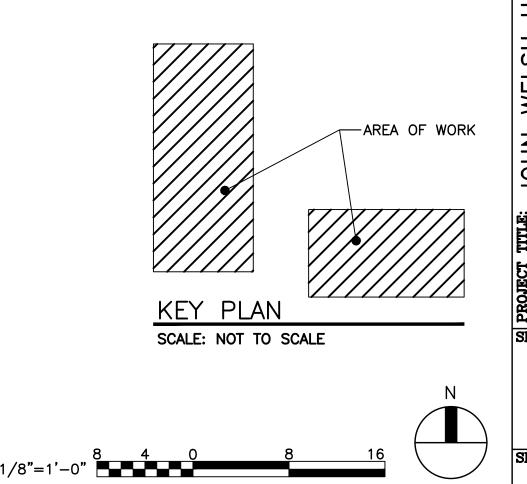
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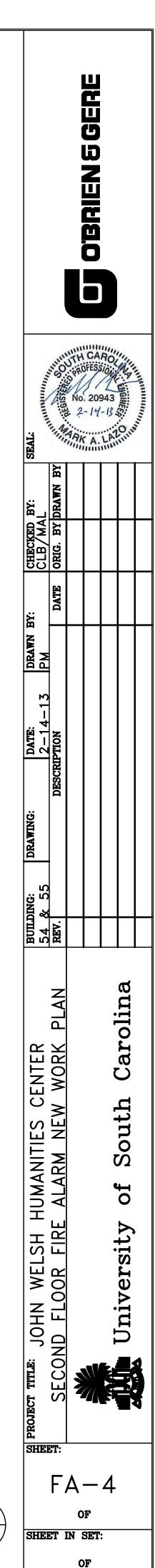
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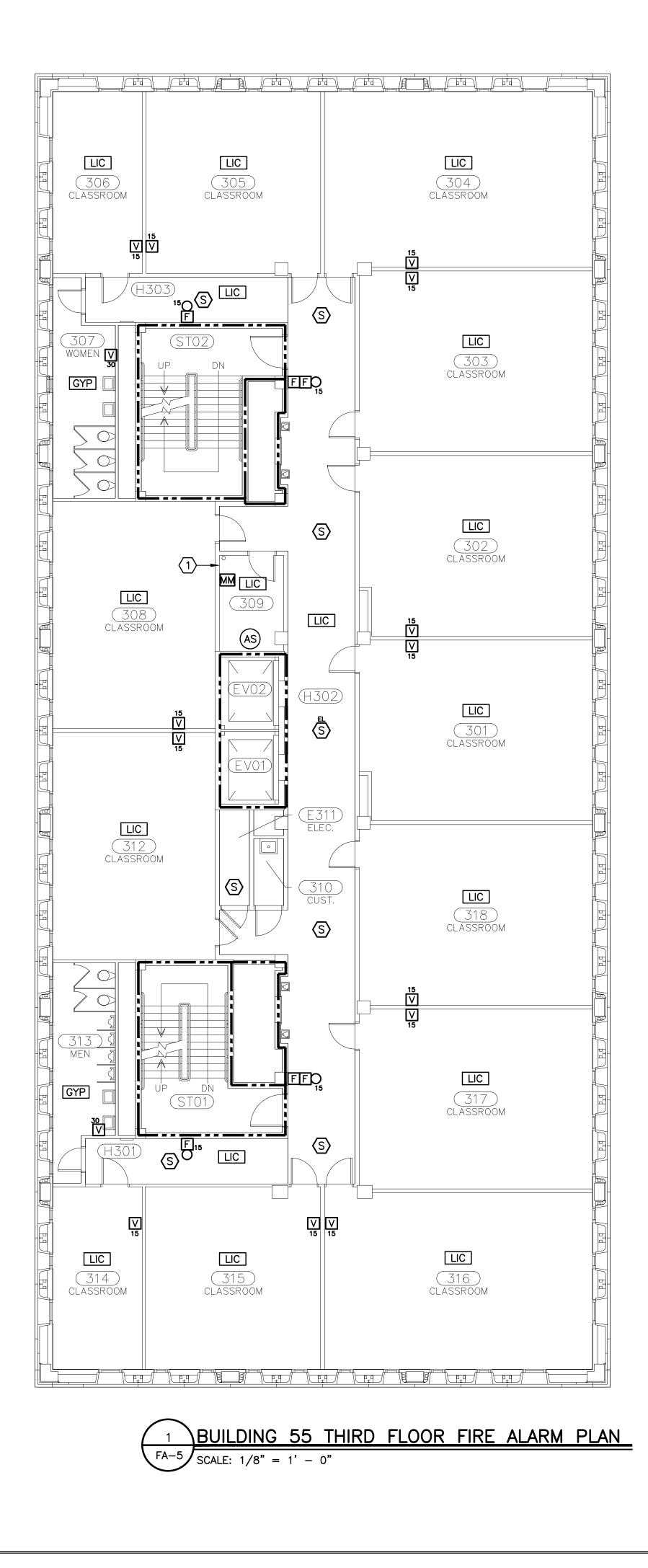
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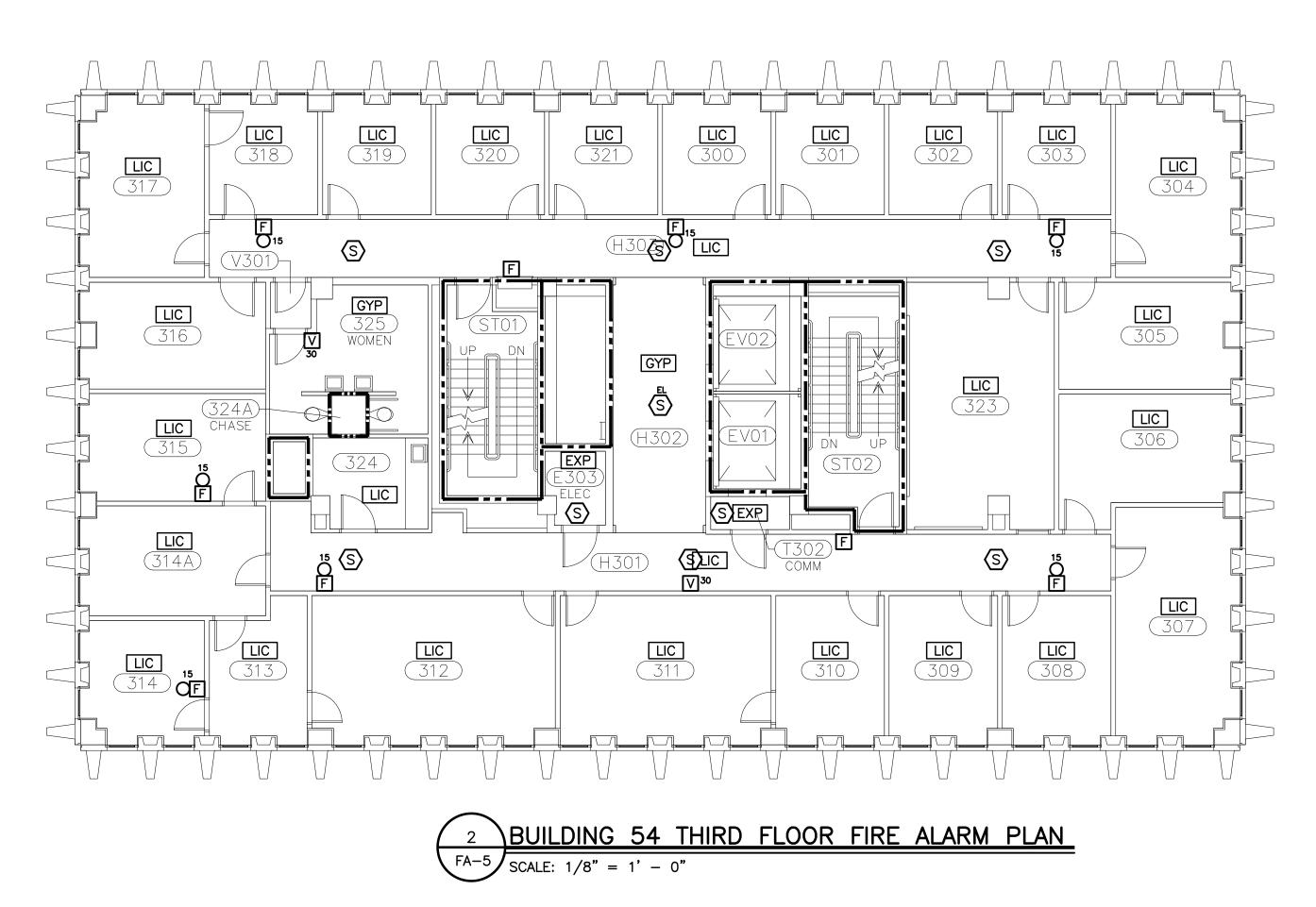
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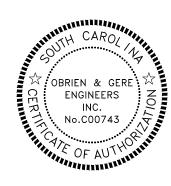
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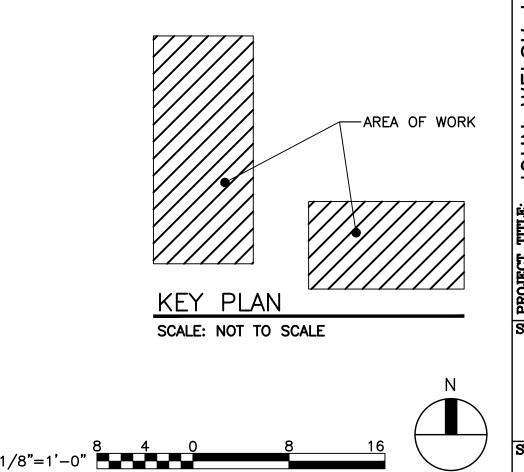
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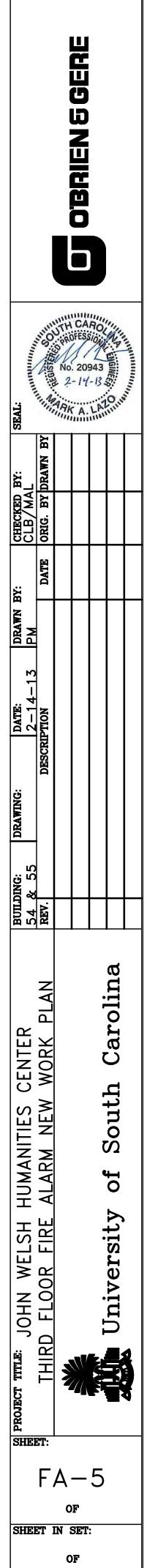
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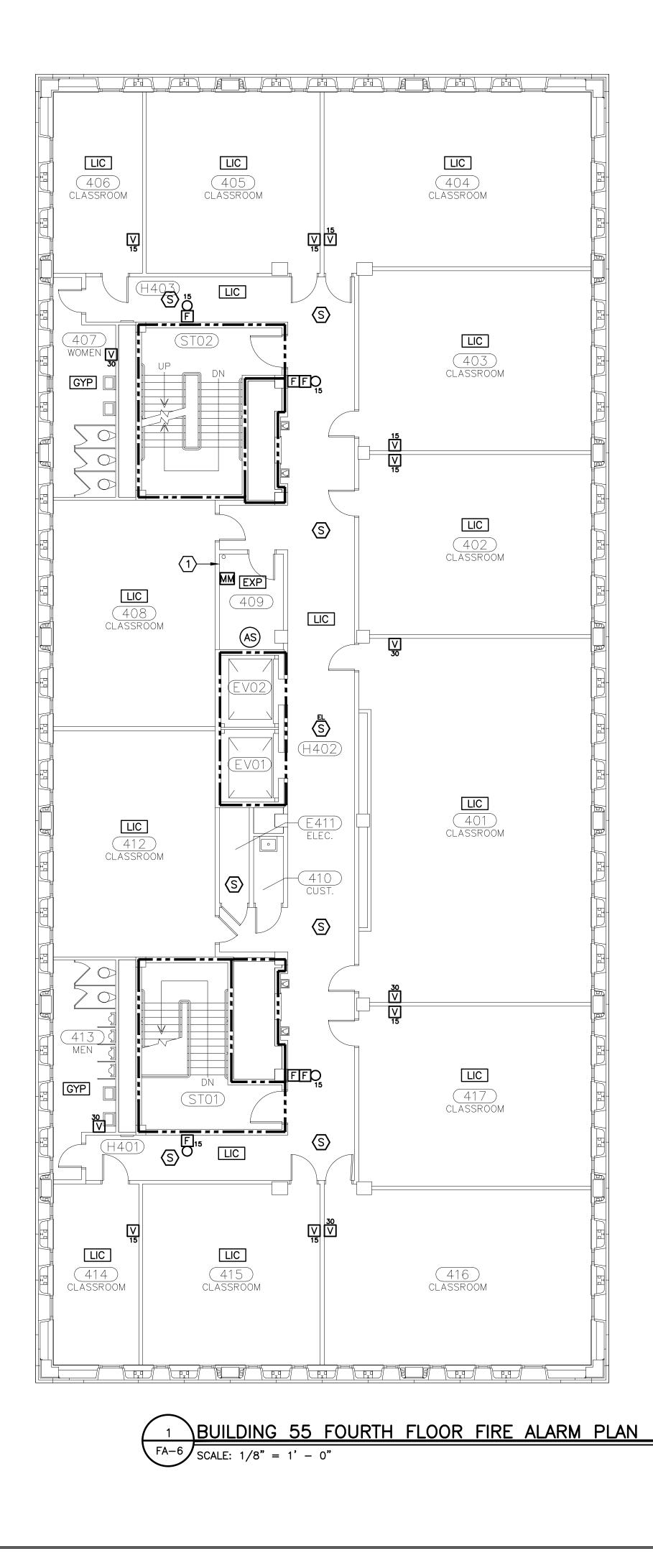
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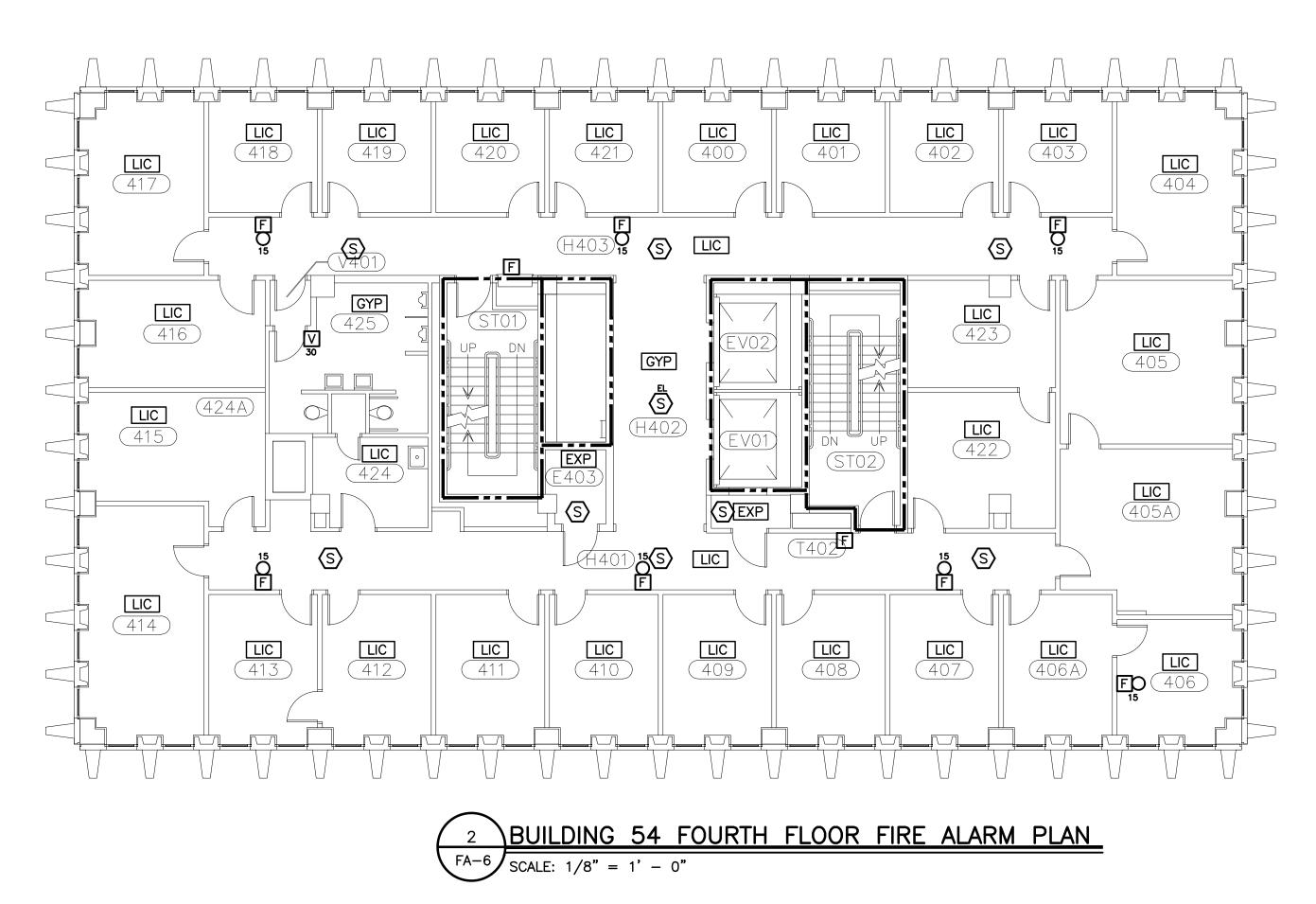
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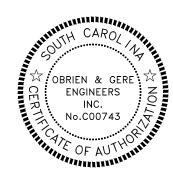
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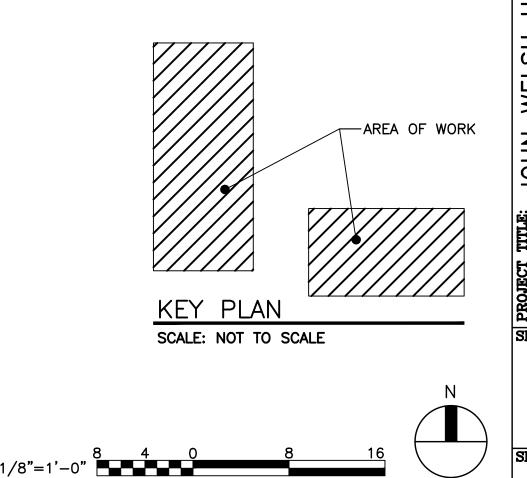
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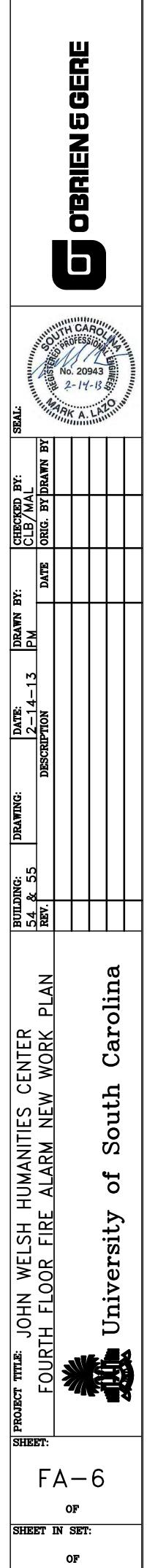
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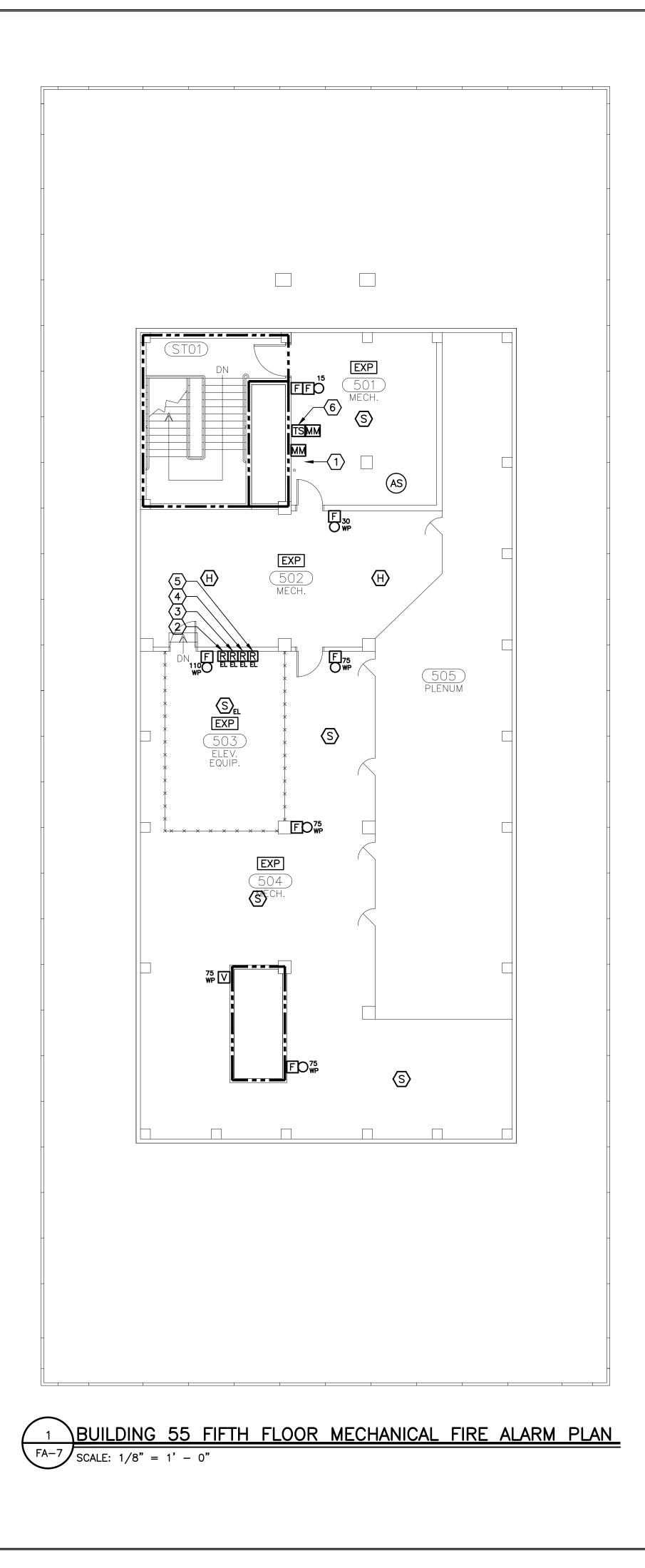
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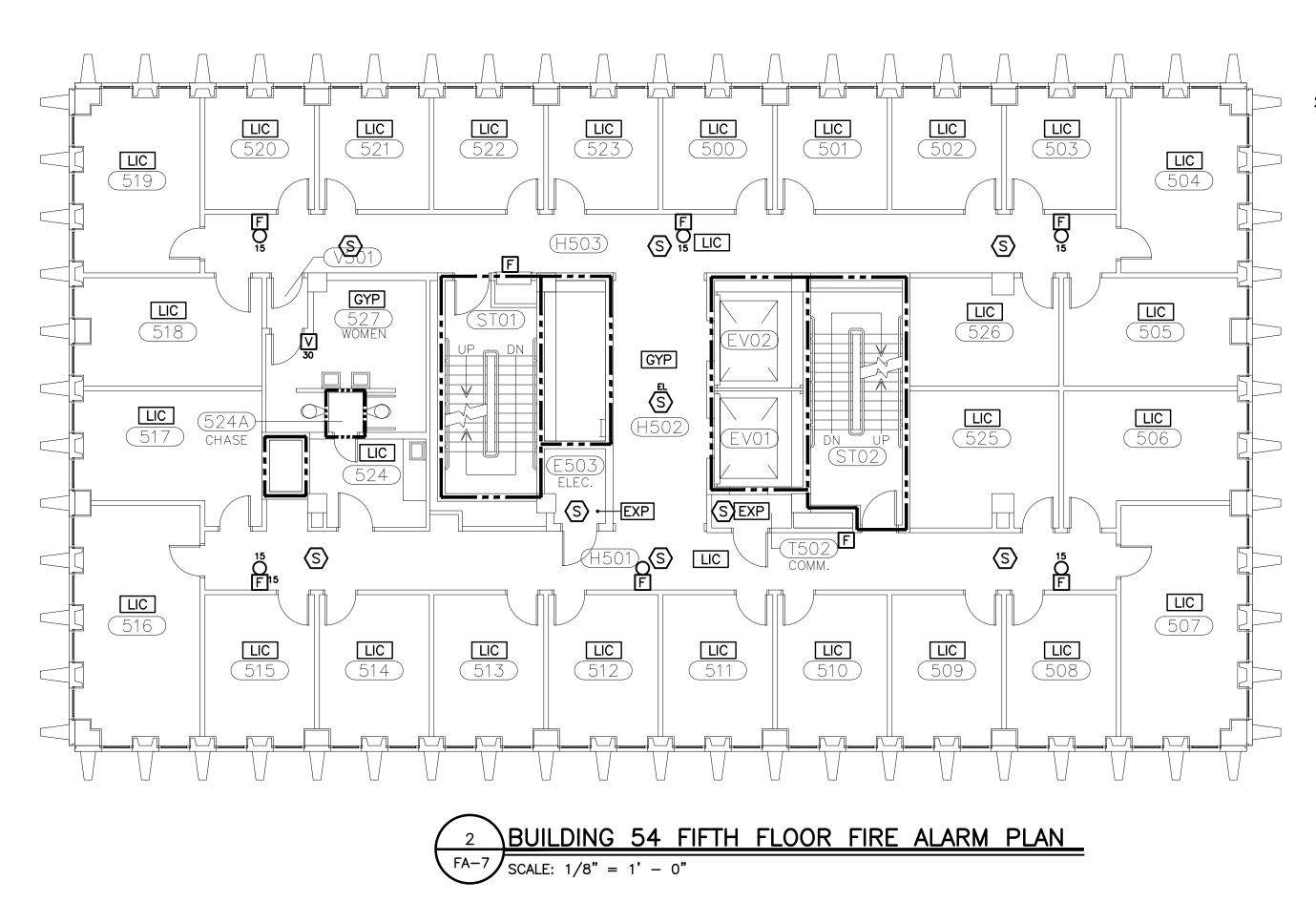
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- 2. PHASE 1 RECALL DESIGNATED LEVEL.
- 3. PHASE 1 RECALL ALTERNATE LEVEL.
- 4. VISUAL WARNING TO ELEVATOR CARS FIRE FIGHTER'S ALERT.
- 5. ELEVATOR POWER SHUTDOWN (SHUNT TRIP) FUNCTION.
- 6. EXISTING DEVICE TO REMAIN.

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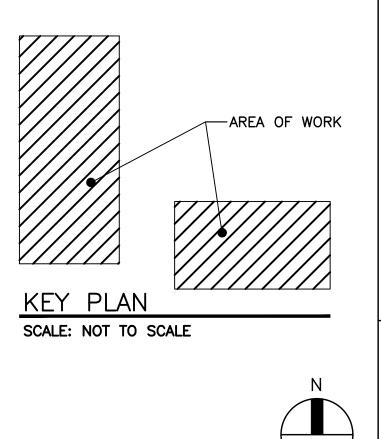
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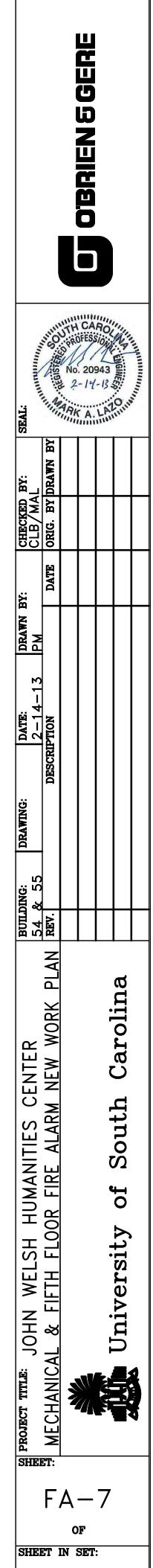
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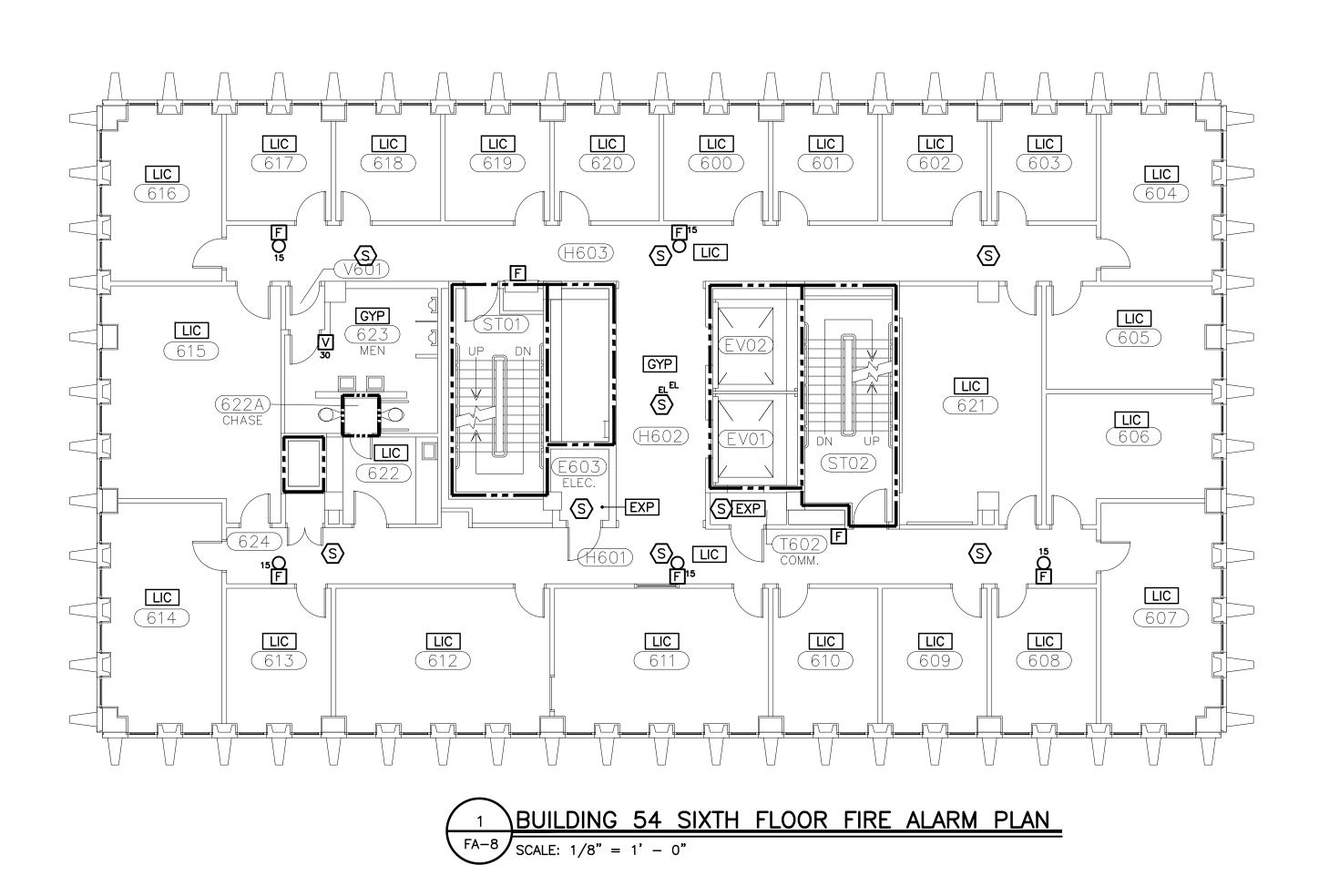
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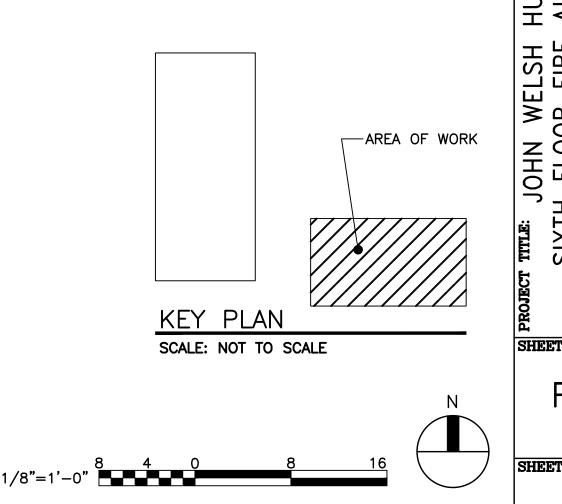




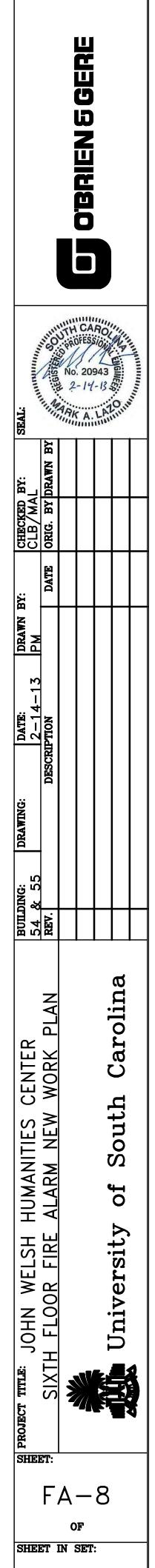
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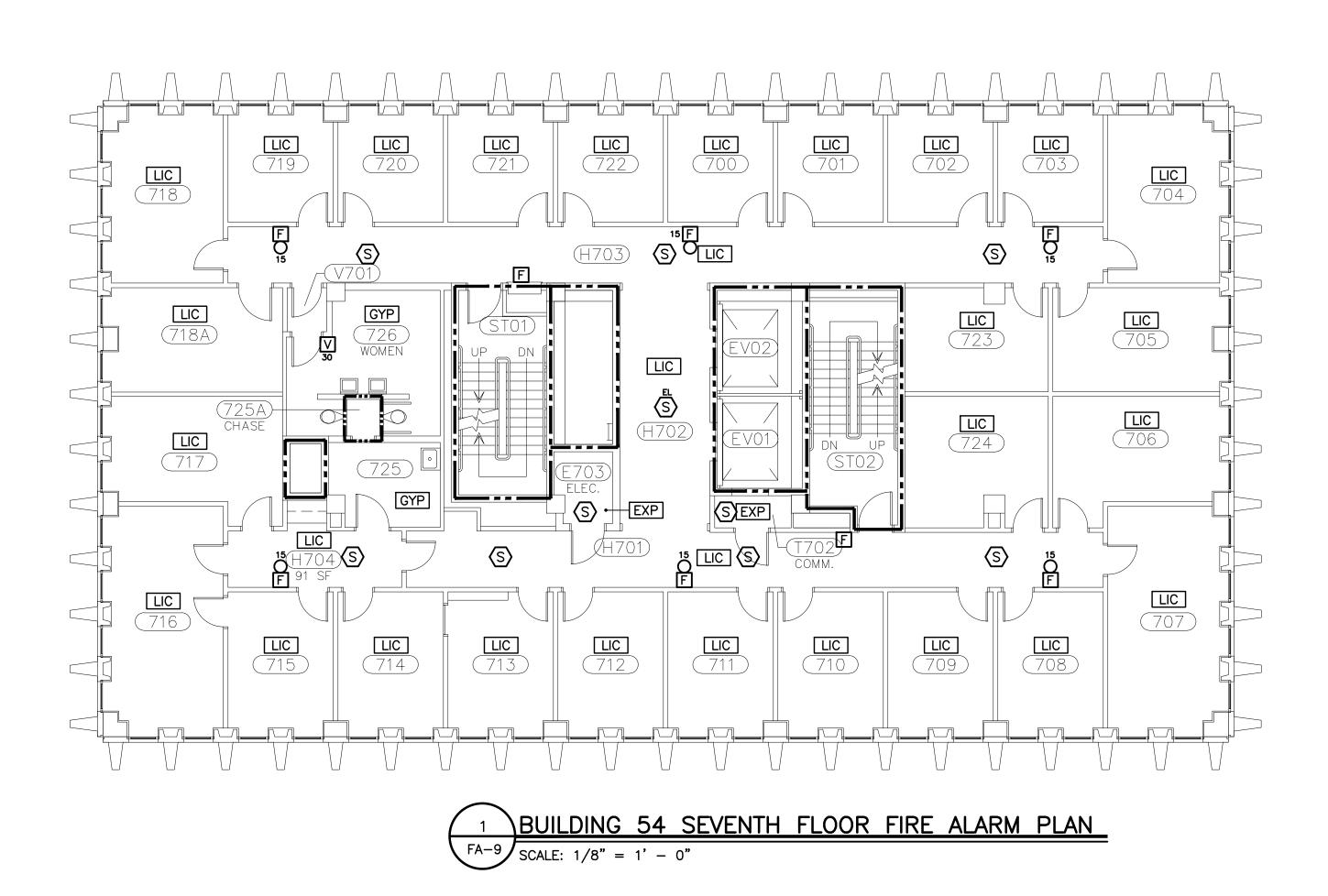
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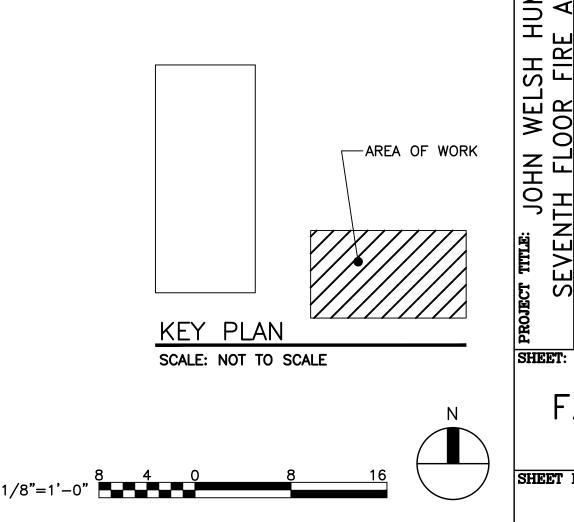


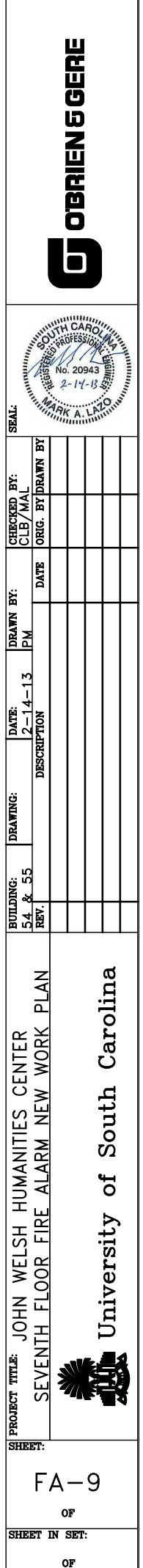


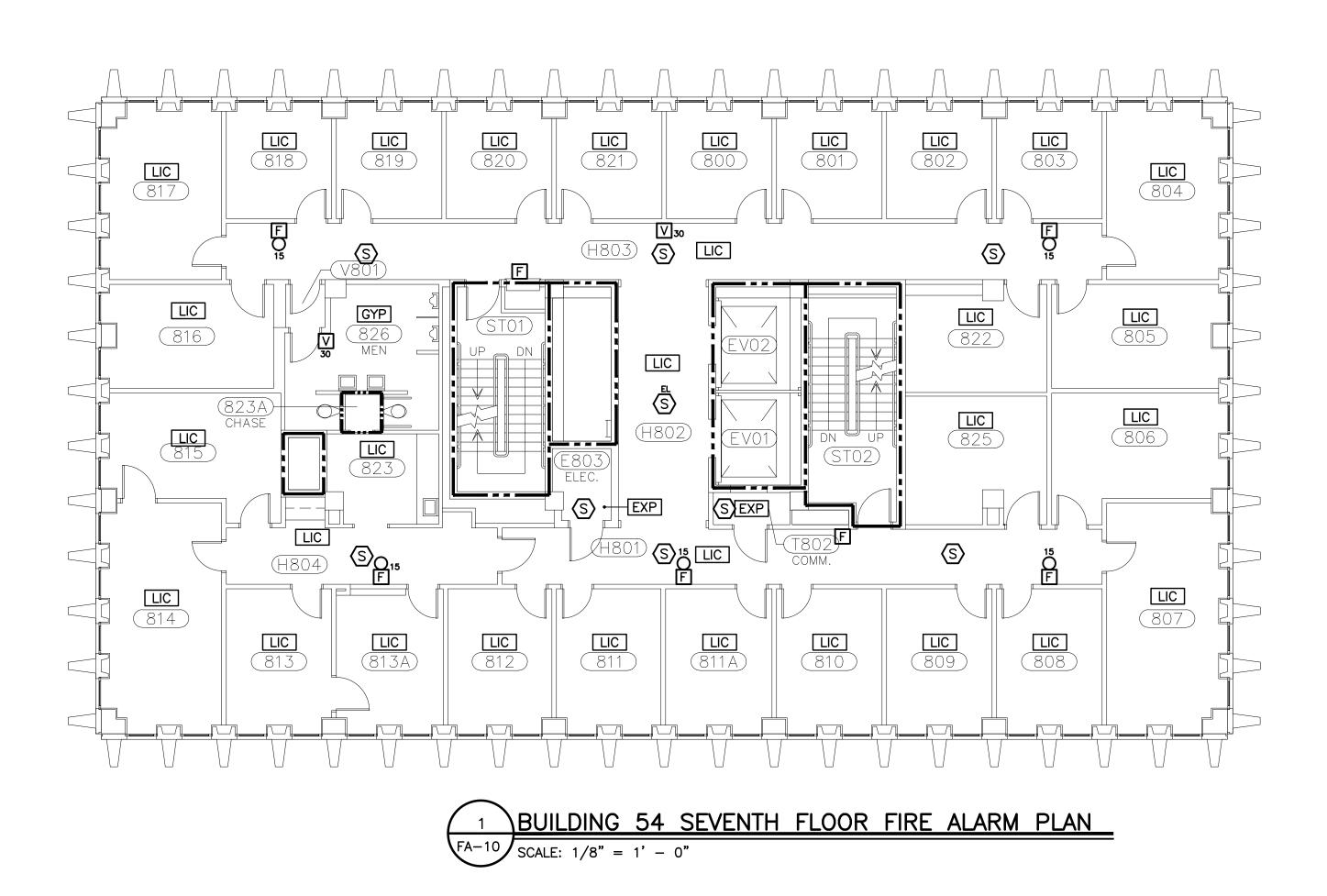
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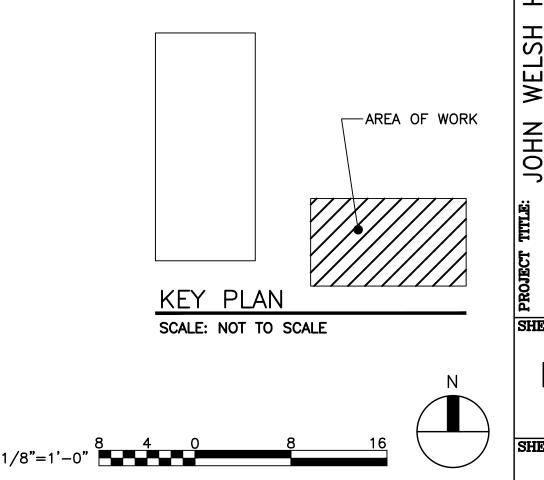




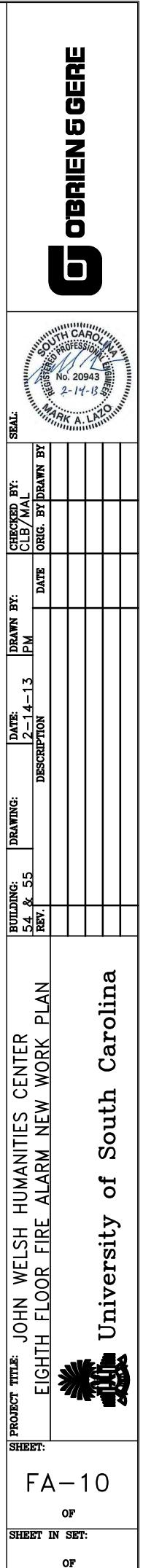
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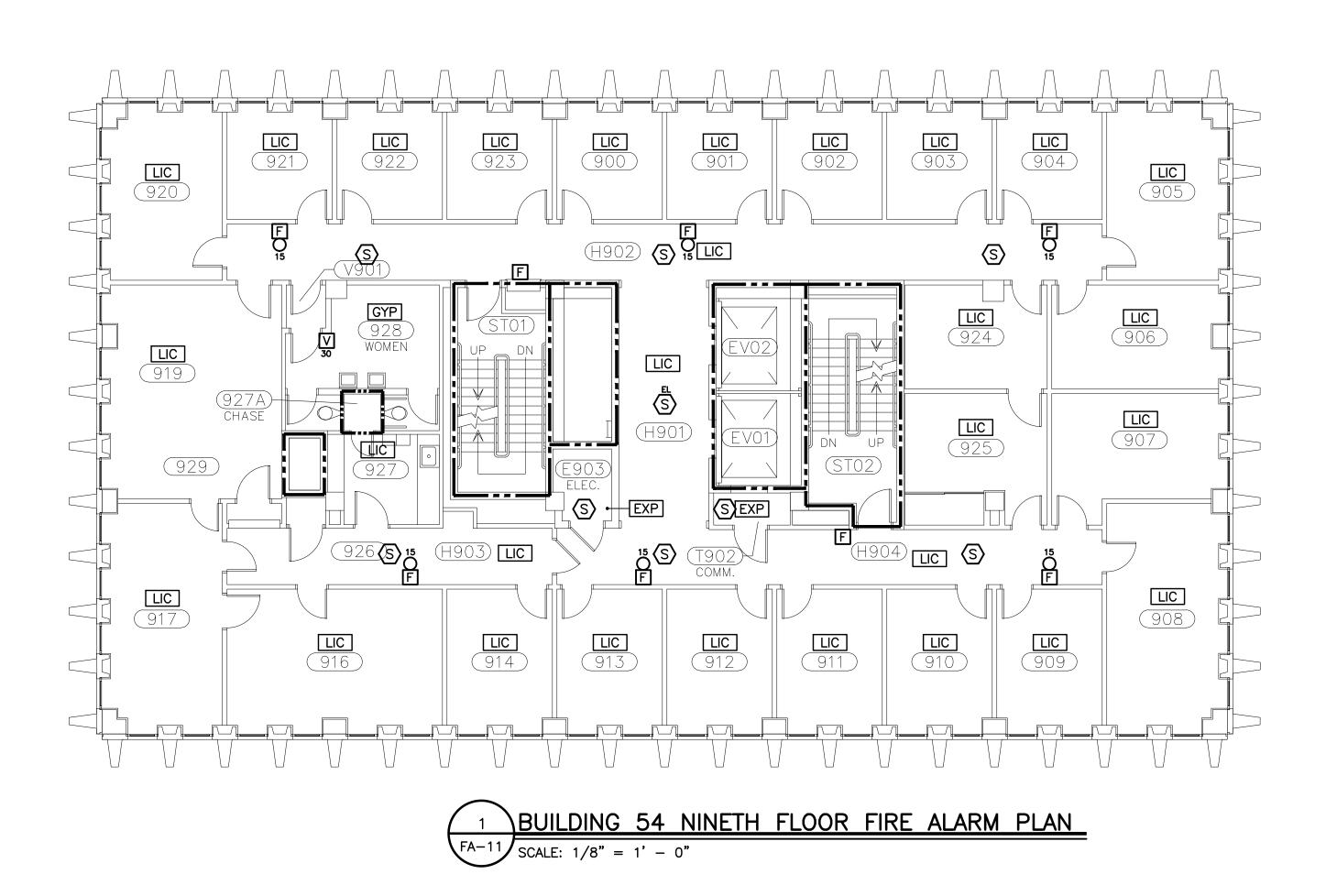
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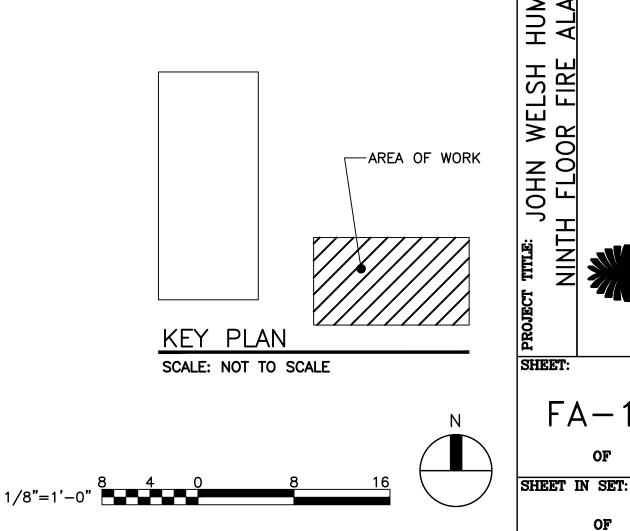
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- 2. FIRE RESISTANCE RATING (FRR) OF WALL/FLOOR ASSEMBLIES ARE PROVIDED FOR INFORMÁTIONAL PURPOSES AND SURMISED TO BE AS INDICATED. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE FRR WALL/FLOOR ASSEMBLIES SHOWN. ALL PENETRATIONS OF WALL/FLOOR FRR ASSEMBLIES SHALL BE PROVIDED WITH A UL LISTED OR APPROVED FIRESTOPPING ASSEMBLY EQUAL TO THE FRR OF THE WALL/FLOOR.
- 3. CEILING TYPES ARE REFERENCED FOR INFORMATION PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE TO FIELD DETERMINE ALL BUILDING FEATURES.

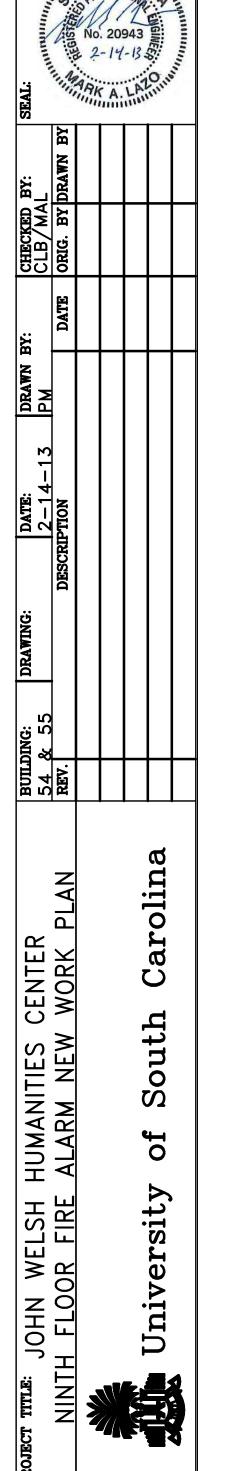
#### ASBESTOS HAZARDS MATERIALS NOTES:

1. OFFICE BUILDING #54:

- A. JOINT COMPOUND TESTS POSITIVE FOR ASBESTOS CONTAINING MATERIALS.
- B. POPCORN TEXTURE CEILING SPRAY AT ELEVATORS TESTS POSITIVE FOR ASBESTOS CONTAINING MATERIALS.
- C. THERE IS ASBESTOS BLACK MASTIC ON THE HVAC DUCTS IN THE ENTIRE BUILDING AS WELL AS ON THE WATER LINES ABOVE THE CEILING IN THE BUILDING.
- D. THE FLOOR TILES IN THE HALLS AND UNDER CARPET IN THE BUILDING (9x9), AS WELL AS THE BLACK MASTIC THAT HOLDS IT TO THE CONCRETE TESTS POSITIVE FOR ASBESTOS CONTAINING







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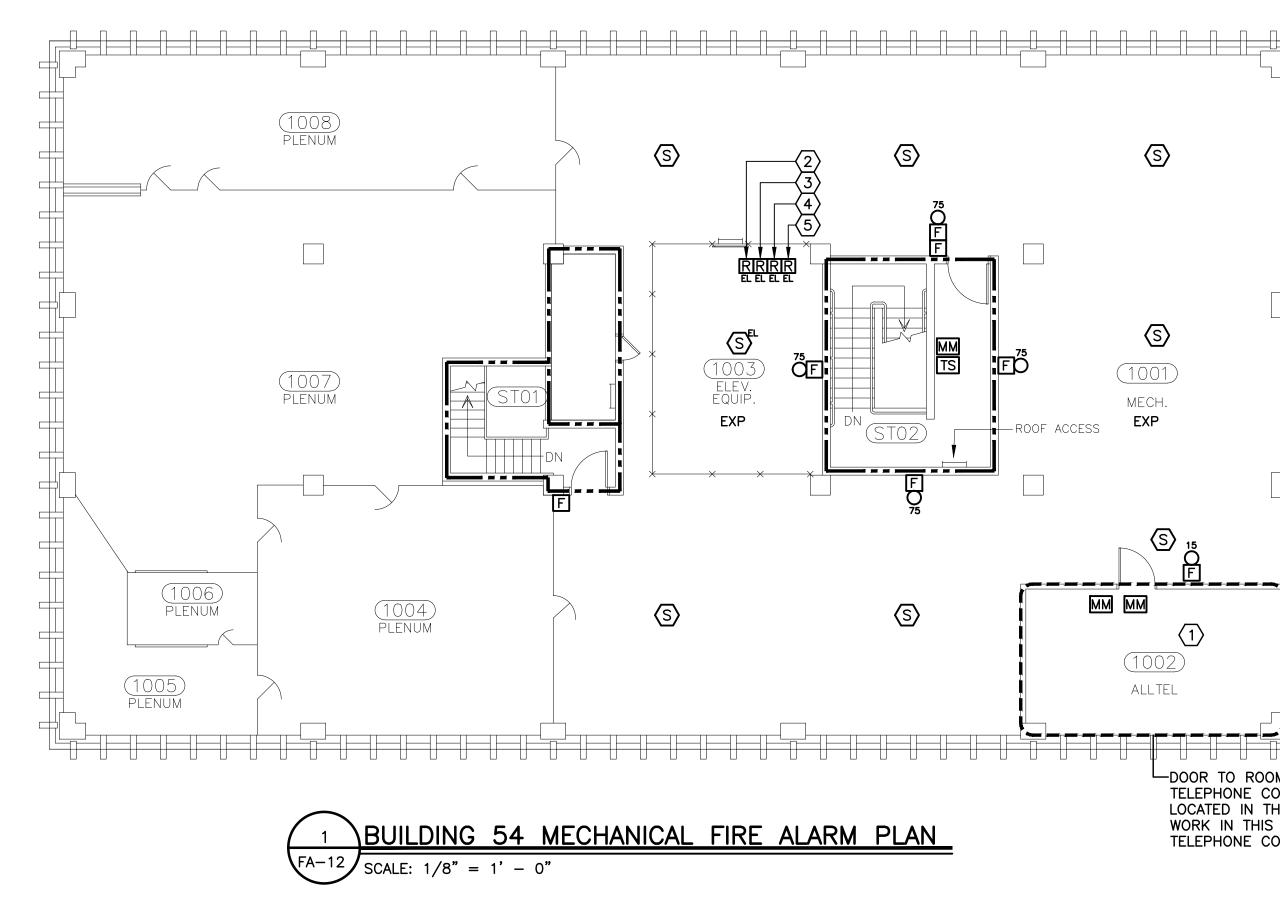
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- 2. FIRE RESISTANCE RATING (FRR) OF WALL/FLOOR ASSEMBLIES ARE PROVIDED FOR INFORMATIONAL PURPOSES AND SURMISED TO BE AS INDICATED. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE FRR WALL/FLOOR ASSEMBLIES SHOWN. ALL PENETRATIONS OF WALL/FLOOR FRR ASSEMBLIES SHALL BE PROVIDED WITH A UL LISTED OR APPROVED FIRESTOPPING ASSEMBLY EQUAL TO THE FRR OF THE WALL/FLOOR.
- 3. CEILING TYPES ARE REFERENCED FOR INFORMATION PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE TO FIELD DETERMINE ALL BUILDING FEATURES.
- 4. ALL EXISTING TAMPER SWITCHES AND WATER FLOW SWITCHES SHALL REMAIN AND BE SUPERVISED BY THE FIRE ALARM SYSTEM.

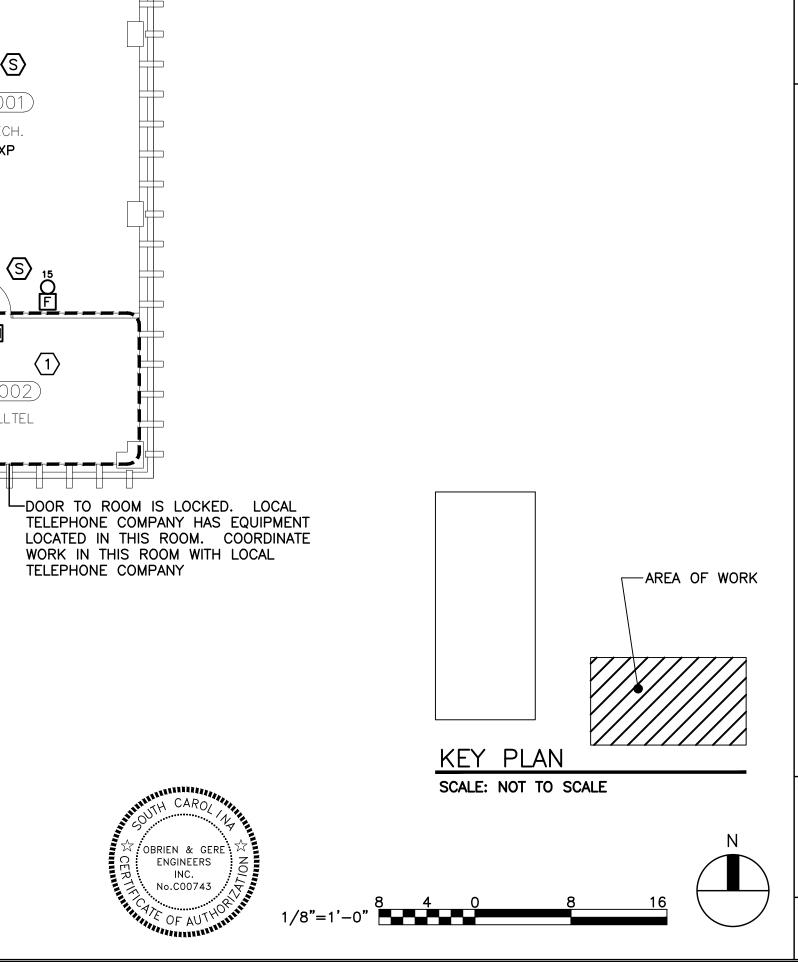
## <u>key notes</u> (#)

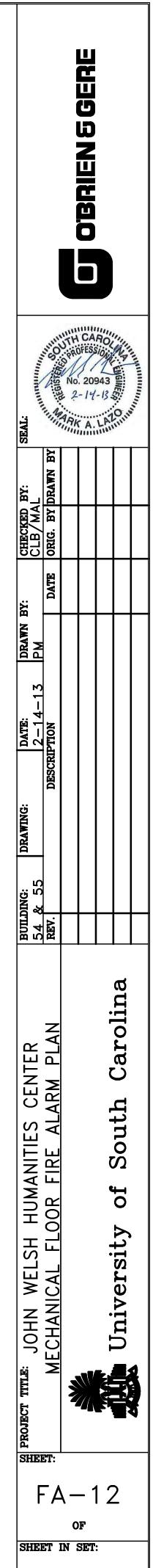
- 1. COMPARTMENT PROTECTED WITH AN EXISTING FM200 SYSTEM AND IS TO REMAIN. SYSTEM SHALL BE MONITORED BY FIRE ALARM SYSTEM.
- 2. PHASE 1 RECALL DESIGNATED LEVEL.
- 3. PHASE 1 RECALL ALTERNATE LEVEL.
- 4. VISUAL WARNING TO ELEVATOR CARS FIRE FIGHTER'S ALERT.
- 5. ELEVATOR POWER SHUTDOWN (SHUNT TRIP) FUNCTION.

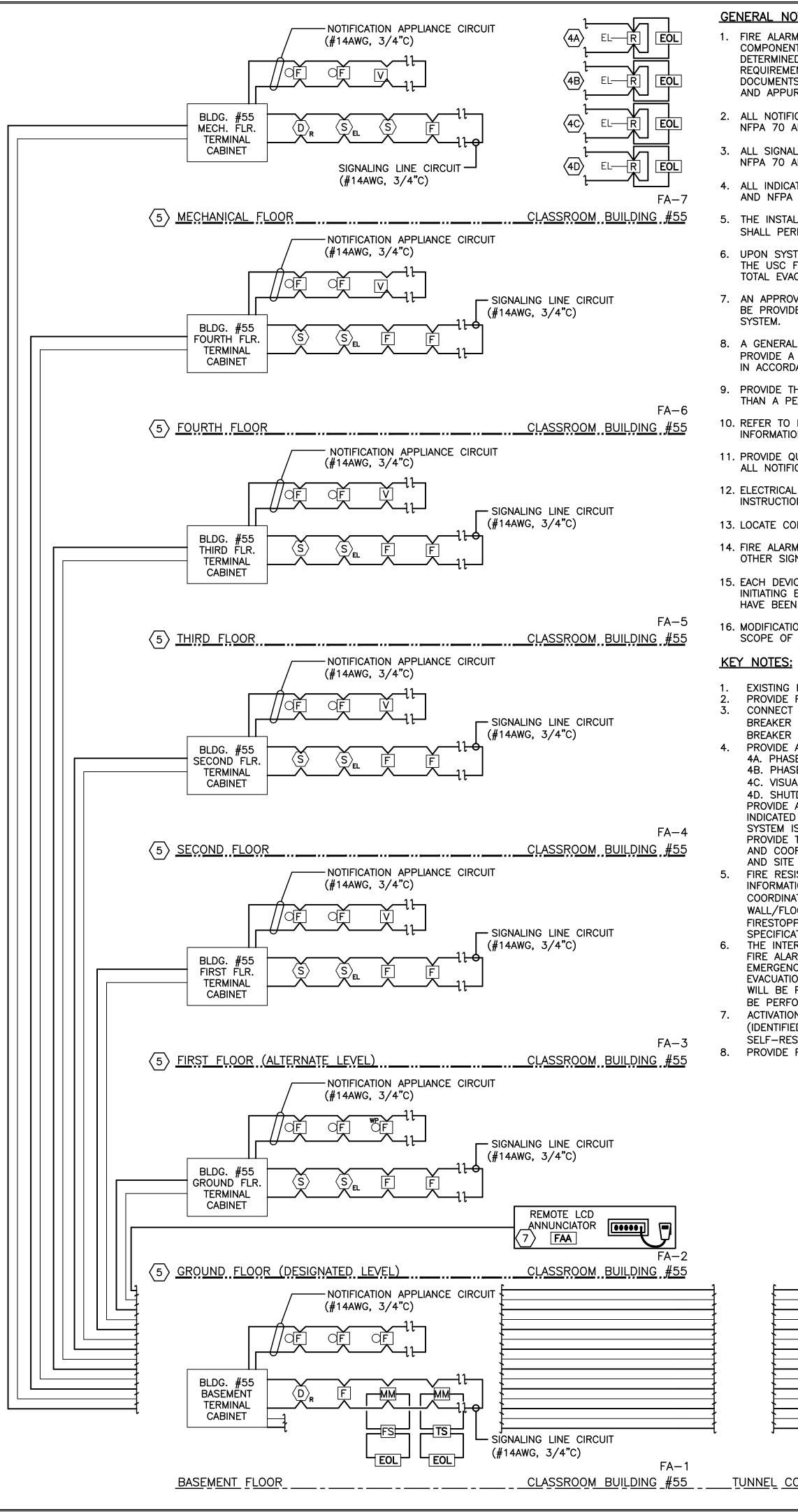
#### ASBESTOS HAZARDS MATERIALS NOTES:

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- C. THERE IS ASBESTOS BLACK MASTIC ON THE HVAC DUCTS IN THE ENTIRE BUILDING AS WELL AS ON THE WATER LINES ABOVE THE CEILING IN THE BUILDING.
- D. THE FLOOR TILES IN THE HALLS AND UNDER CARPET IN THE BUILDING (9x9), AS WELL AS THE BLACK MASTIC THAT HOLDS IT TO THE CONCRETE TESTS POSITIVE FOR ASBESTOS CONTAINING MATERIALS.







#### **GENERAL NOTES:** . FIRE ALARM RISER DIAGRAM IS DIAGRAMMATIC AND NOT INTENDED TO SHOW EACH AND EVERY COMPONENT, DEVICE, APPLIANCE, ETC. CONDUIT PATHWAYS AND INTERCONNECTIONS SHALL BE DETERMINED BY THE BUILDING FEATURES, NFPA 70, NFPA 72, SYSTEM MANUFACTURER REQUIREMENTS AND RECOMMENDATIONS, AND ASBESTOS CONDITIONS. REFER TO PROJECT DOCUMENTS FOR QUANTITY AND LOCATIONS OF EQUIPMENT, DEVICES, APPLIANCES, COMPONENTS AND APPURTENANCES. 2. ALL NOTIFICATION APPLIANCES CIRCUITS (NAC) SHALL PERFORM TO CLASS "B" AS DEFINED BY BLDG. #54 NFPA 70 AND NFPA 72 REQUIREMENTS. MECH. FLR. TERMINAL 3. ALL SIGNALING LINE CIRCUITS (SLC) SHALL PERFORM TO CLASS "B" STYLE 7 AS DEFINED BY CABINET NFPA 70 AND NFPA 72 REQUIREMENTS. (#14AWG, 3/4"C) 4. ALL INDICATING DEVICE CIRCUITS (IDC) SHALL PERFORM TO CLASS "B" AS DEFINED BY NFPA 70 AND NFPA 72 REQUIREMENTS. (5) <u>MECHANICAL FLOOR</u> 5. THE INSTALLATION OF WIRING BETWEEN THE FACU AND RELAY MODULES OR OTHER APPLIANCES SHALL PERFORM TO CLASS "B" AS DEFINED BY NFPA 70 AND NFPA 72 REQUIREMENTS. 6. UPON SYSTEM ACTIVATION AN AUTOMATIC GENERAL ALARM SHALL BE PROVIDED, AS REQUIRED BY THE USC FIRE MARSHAL, AND SOUND AN ALERT TONE FOLLOWED BY VOICE INSTRUCTIONS FOR TOTAL EVACUATION OF THE BUILDING IN ALARM. 7. AN APPROVED TWO-WAY FIRE DEPARTMENT COMMUNICATIONS SYSTEM HAS BEEN CONFIRMED TO BE PROVIDED BY THE COLUMBIA FIRE DEPARTMENT BY MEANS OF A FIRE DEPARTMENT RADIO BLDG. #54 NINTH FLR. 8. A GENERAL ALARM HAS BEEN REQUIRED FOR TOTAL EVACUATION OF THE BUILDING IN ALARM. TERMINAL PROVIDE A LEVEL 0 (ZERO) SURVIVABILITY AT THE DIRECTION OF THE USC FIRE MARSHAL, AND CABINET IN ACCORDANCE WITH NFPA 70 AND NFPA 72 REQUIREMENTS. 9. PROVIDE THE NUMBER OF ZONES REQUIRED FOR EACH BUILDING, BUT IN NO CASE BE LESS THAN A PER-FLOOR BASIS. 10. REFER TO FIRE ALARM SYSTEM SPECIFICATION 16750 FOR ADDITIONAL REQUIREMENTS AND (5) <u>NINTH FLOOR</u> INFORMATION. 11. PROVIDE QUANTITY OF POWER SUPPLY PANELS NECESSARY FOR CONTROL AND OPERATION OF ALL NOTIFICATION APPLIANCES. 12. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH FIRE ALARM VENDOR FOR SYSTEM OPERATING INSTRUCTIONS AND WIRING DIAGRAMS. 13. LOCATE CONTROL/RELAY MODULE WITHIN 3'-0" OF CONTROLLED DEVICE. BLDG. #54 14. FIRE ALARM SIGNALS AND EMERGENCY COMMUNICATIONS SHALL TAKE PRECEDENCE OVER ALL 3/5/7 FLR. OTHER SIGNALS, SUCH AS BUT NOT LIMITED TO, PUBLIC ADDRESS SYSTEMS, ETC. TERMINAL CABINET 15. EACH DEVICE USED TO INITIATE FIRE FIGHTER'S SERVICE RECALL SHALL BE CAPABLE OF INITIATING ELEVATOR RECALL WHEN ALL OTHER DEVICES ON THE SAME INITIATION DEVICE CIRCUIT HAVE BEEN MANUALLY OR AUTOMATICALLY PLACED IN ALARM CONDITION. 16. MODIFICATIONS TO THE EXISTING ELEVATOR CONTROLLER AND CAB ARE NOT INCLUDED IN THIS 3RD/5TH/7TH\_FLOORS SCOPE OF WORK. EXISTING FACU WITH BUILT-IN DIALER WITH CONTACT ID TO REMAIN. PROVIDE FACU WITH NEW SIGNAL INPUT MODULE COMPATIBLE WITH CAMPUS ATI SYSTEM. CONNECT TO 120V POWER SOURCE FOR PANEL WITH EMERGENCY POWER SOURCE. CIRCUIT BREAKER SHALL BE RED AND LABELED 'FIRE ALARM CIRCUIT'. MECHANICALLY PROTECT CIRCUIT BREAKER IN THE 'ON' POSITION. 4. PROVIDE A MINIMUM OF FOUR (4) CONTROL/RELAY MODULES FOR ELEVATORS: BLDG. #54 4A. PHASE I RECALL - DESIGNATED LEVEL /4/6/8 FLR 4B. PHASE I RECALL - ALTERNATE LEVEL TERMINAL 4C. VISUAL WARNING SIGNAL IN CARS - FIRE FIGHTER'S ALERT CABINET 4D. SHUTDOWN (SHUNT TRIP) FUNCTION PROVIDE ALL FIRE ALARM SYSTEM MODULES, DEVICES, RELAYS, WIRING, AND PROGRAMMING AS INDICATED ON THE CONTRACT DOCUMENTS AND PROJECT MANUAL SUCH THAT THE FIRE ALARM SYSTEM IS CAPABLE OF INITIATING ITEMS 4A, 4B, 4C & 4D, CONTRACTOR IS RESPONSIBLE TO PROVIDE THE PROPER NUMBER OF CIRCUITS AND LOGIC FOR THE ARRANGEMENT OF ELEVATORS (5) <u>2ND/4TH/6TH/8TH\_FLOORS</u> AND COORDINATE SUCH WITH THE USC, FIRE AUTHORITY, ELEVATOR CONTRACTOR, EQUIPMENT AND SITE CONDITIONS. FIRE RESISTANCE RATING (FRR) OF WALL/FLOOR ASSEMBLIES ARE PROVIDED FOR INFORMATIONAL PURPOSES AND SURMISED TO BE AS INDICATED. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE FRR WALL/FLOOR ASSEMBLIES SHOWN. ALL PENETRATIONS OF WALL/FLOOR FRR ASSEMBLIES SHALL BE PROVIDED WITH A UL LISTED OR APPROVED FIRESTOPPING ASSEMBLY EQUAL TO THE FRR OF THE WALL/FLOOR. REFER TO FIRESTOPPING SPECIFICATION 07841 FOR ADDITIONAL INFORMATION. THE INTERFACE METHOD BETWEEN THE FACU AND THE ATI RTU IS THE RESPONSIBILITY OF THE FIRE ALARM INSTALLATION CONTRACTOR. THE RTU IS INTENDED TO ALLOW FOR CAMPUS-WIDE BLDG. #54 EMERGENCY ANNOUNCEMENTS TO BE BROADCAST THROUGHOUT THE BUILDING USING THE VOICE FIRST FLR EVACUATION SPEAKER SYSTEM OF THE BUILDINGS FIRE ALARM SYSTEM. THE ATI RTU SYSTEM TERMINAL WILL BE PROVIDED AND INSTALLED BY THE FIRE ALARM CONTRACTOR AND PROGRAMMING WILL CABINET BE PERFORMED BY THE USC POLICE/SECURITY DEPARTMENT. ACTIVATION OF AN AUTOMATIC (SMOKE) DETECTION DEVICE SHALL BE VISUALLY ANNUNCIATED (IDENTIFIED) AT THE FACU AND FAA AND REMAIN LATCHED (EVEN WHEN THE DEVICE HAS SELF-RESTORED) UNTIL MANUALLY CLEARED/RESET AT THE FACU OR FAA. PROVIDE FACU WITH NEW EMERGENCY VOICE / ALARM COMMUNICATION SYSTEM CAPABILITY. FIRST FLOOR (ALTERNATE LEVEL) 6 120VAC ATI SYSTEMS EXISTING ADDRESSABLE TRANSMITTER 20A FUSED -|TVSS|-FACU PANEL WITH NEW EMERGENCY DISC SW. RTU VOICE/ALARM COMMUNICATION 120 VAC POWER TO CAMPUS DACT FACU CHARGER BATTERIES SOURCE SECURITY BLDG. #54 GROUND<sup>"</sup>FLR 120VAC TERMINAL 20A FUSED -|TVSS|-CABINET DISC SW. MICROPHONE FOR -(3) LIVE VOICE (TYP.) 120 VAC POWER (5) GROUND FLOOR (DESIGNATED LEVEL) SOURCE BLDG. #54 BASEMENT TERMINAL CABINET FIRE ALARM RISER DIAGRAM

#### TUNNEL CONNECTING BUILDINGS

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