

UNIVERSITY OF SOUTH CAROLINA

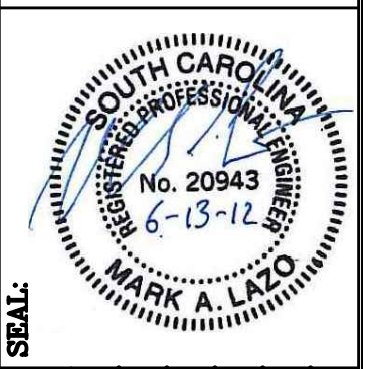


WILLIAMS-BRICE NURSING & AUDITORIUM BUILDING FIRE ALARM UPGRADES

STATE PROJECT NUMBER: H27-D162-JM

DRAWING INDEX

DWG #	SHEET #	SHEET TITLE
1	G-1	COVER SHEET AND DRAWING INDEX
2	F-0	FIRE ALARM LEGEND, NOTES & DETAILS
3	FD-1	BASEMENT FIRE ALARM DEMOLITION PLAN - NURSES BUILDING
4	FD-2	FIRST FLOOR FIRE ALARM DEMOLITION PLAN - NURSES BUILDING
5	FD-3	FIRST FLOOR FIRE ALARM DEMOLITION PLAN - AUDITORIUM BUILDING
6	FD-4	SECOND FLOOR FIRE ALARM DEMOLITION PLAN - NURSES BUILDING
7	FD-5	SECOND FLOOR FIRE ALARM DEMOLITION PLAN - AUDITORIUM BUILDING
8	FD-6	THIRD FLOOR FIRE ALARM DEMOLITION PLAN - NURSES BUILDING
9	FD-7	FOURTH FLOOR FIRE ALARM DEMOLITION PLAN - NURSES BUILDING
10	FD-8	FIFTH FLOOR FIRE ALARM DEMOLITION PLAN - NURSES BUILDING
11	FD-9	SIXTH FLOOR FIRE ALARM DEMOLITION PLAN - NURSES BUILDING
12	FA-1	BASEMENT FIRE ALARM PLAN - NURSES BUILDING
13	FA-2	FIRST FLOOR FIRE ALARM PLAN - NURSES BUILDING
14	FA-3	FIRST FLOOR FIRE ALARM PLAN - AUDITORIUM BUILDING
15	FA-4	SECOND FLOOR FIRE ALARM PLAN - NURSES BUILDING
16	FA-5	SECOND FLOOR FIRE ALARM PLAN - AUDITORIUM BUILDING
17	FA-6	THIRD FLOOR FIRE ALARM PLAN - NURSES BUILDING
18	FA-7	FOURTH FLOOR FIRE ALARM PLAN - NURSES BUILDING
19	FA-8	FIFTH FLOOR FIRE ALARM PLAN - NURSES BUILDING
20	FA-9	SIXTH FLOOR FIRE ALARM PLAN - NURSES BUILDING
21	FA-10	FIRE ALARM RISER DIAGRAM

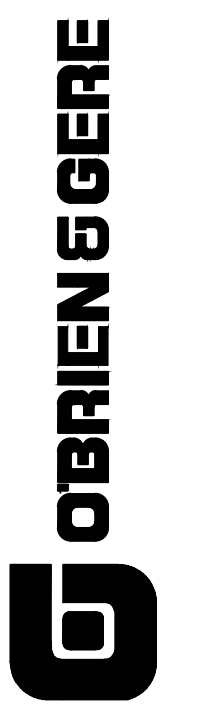
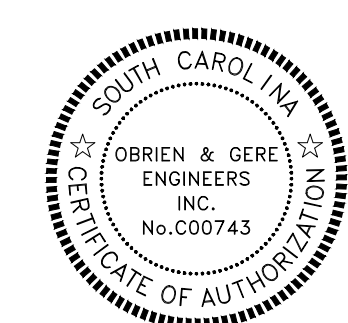


BUILDING:	DRAWING:	DATE:	DRAWN BY:	CHECKED BY:	SEAL:
S6		6-13-12	ICLB	MAL/CLB	
REV.	DESCRIPTION	DATE	ORIG.	BY	DRAWN BY

PROJECT TITLE: USC WILLIAMS-BRICE BUILDING
COVER SHEET & DRAWING INDEX

University of South Carolina

SHEET: G-1
OF
SHEET IN SET: 1 OF 21



FIRE ALARM LEGEND:

F	MANUAL FIRE ALARM BOX (DOUBLE ACTION)
R	RELAY MODULE
H	HEAT DETECTOR DEVICE (THERMAL DETECTOR)
S	SMOKE DETECTOR DEVICE – PHOTOELECTRIC
D _r	DUCT DETECTOR DEVICE – PHOTOELECTRIC
F _∞	SPEAKER/STROBE APPLIANCE
V _∞	STROBE APPLIANCE (WALL MOUNTED)
∞	STROBE APPLIANCE (CEILING MOUNTED)
FACU	FIRE ALARM/MASS NOTIFICATION CONTROL UNIT
RTU	REMOTE TRANSMITTER UNIT
FAA	FIRE ALARM ANNUNCIATOR UNIT (PANEL)
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TS	TAMPER SWITCH – FIRE SPRINKLER SYSTEM
FS	WATER FLOW SWITCH – FIRE SPRINKLER SYSTEM
EOL	END OF LINE RESISTOR
MM	MONITOR MODULE
D	ELECTRIC ALARM BELL WITH BACK BOX

SUBSCRIPTS:

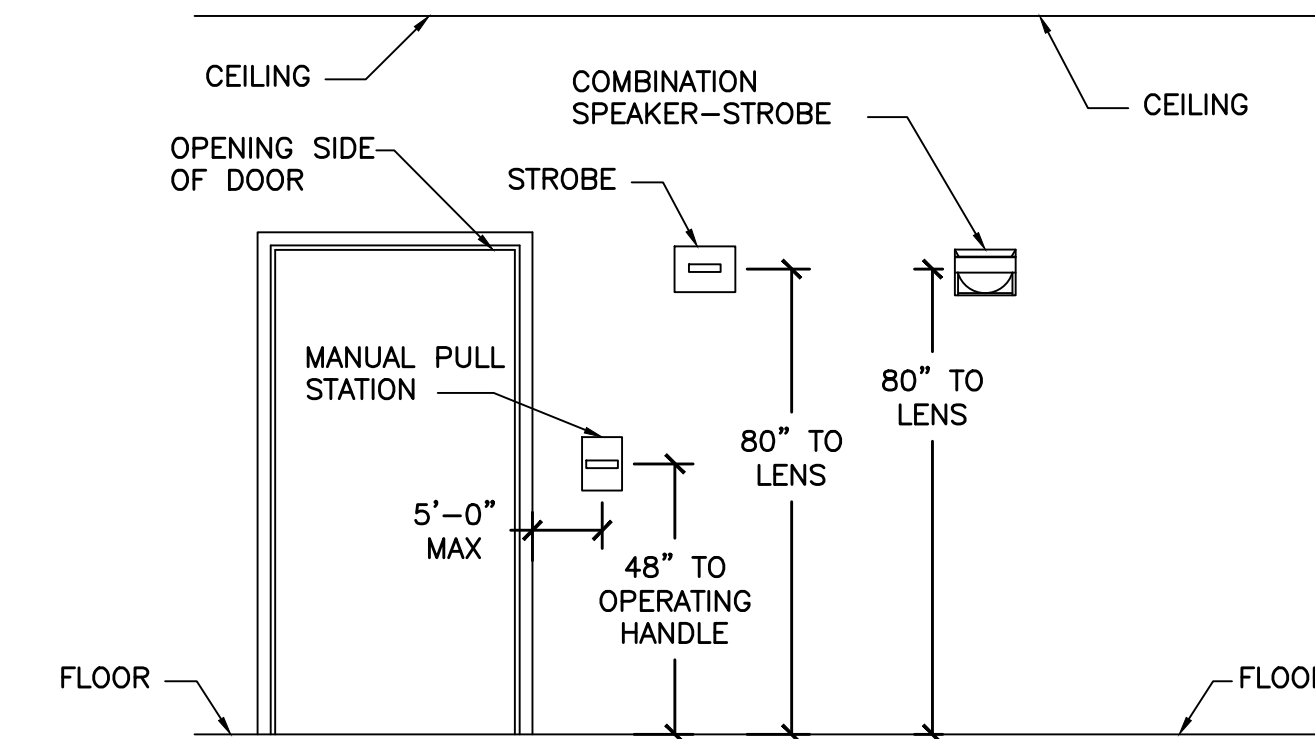
B	BATTERY OPERATED SMOKE ALARM
EL	ELEVATOR CONTROL FUNCTION
WP	WEATHER PROOF
R	RETURN
CD	CANDELA RATING OF APPLIANCE

BUILDING SYMBOLS:

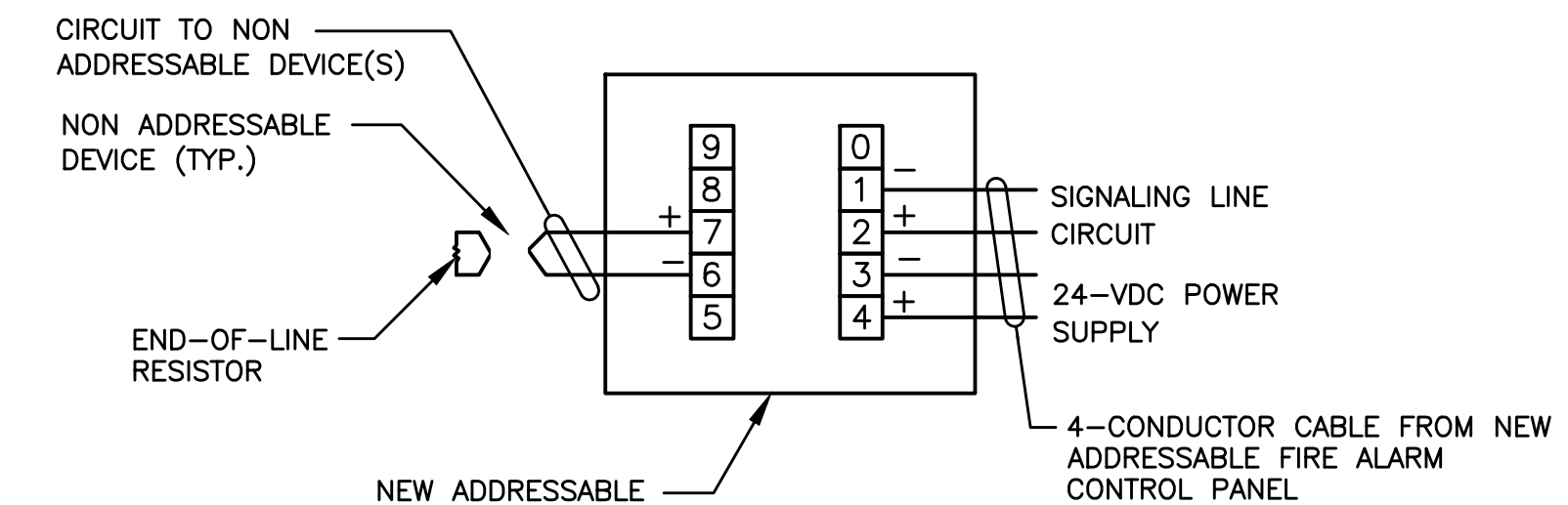
LIC	LAY-IN CEILING
GYP	GYPSUM BOARD CEILING
EXP	EXPOSED CEILING
AS	AUTOMATIC FIRE SPRINKLER PROTECTION
----	FIRE RATED WALL (1-HOUR)
----	FIRE RATED WALL (2-HOUR)
NE	NOT ENTERED (AT TIME OF SURVEY)

GENERAL FIRE ALARM NOTES:

1. DEMOLISH EXISTING FIRE ALARM AND DETECTION SYSTEM. ALL EXISTING WIRING SHALL BE REMOVED.
2. PROVIDE NEW ANALOG/ADDRESSABLE FIRE ALARM SYSTEM WITH VOICE EVACUATION CAPABILITIES FOR THE BUILDING.
3. THE EXISTING FIRE ALARM SYSTEM SHALL REMAIN OPERATIONAL UNTIL THE NEW SYSTEM IS INSTALLED, TESTED AND ACCEPTED.
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
5. 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.
6. WALL MOUNTED FIRE ALARM DEVICES IN UNFINISHED AREAS MAY BE SURFACE MOUNTED, THE CONDUIT MAY BE INSTALLED EXPOSED ON WALLS AND ON CEILINGS.
7. PROVIDE INDICATING LAMP FOR ALL CONCEALED DETECTORS.
8. FIRE ALARM MANUAL PULL STATIONS AT DOOR OPENINGS SHALL BE WITHIN 5'-0" HORIZONTALLY OF THE DOOR OPENING.
9. DUCT SMOKE SENSORS SHALL BE IN ACCORDANCE WITH NFPA 72, 90A, AND AS INDICATED ON THE CONTRACT DOCUMENTS.
10. 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.
11. ALL FLOOR AND WALL PENETRATIONS SHALL BE DRILLED, COORDINATED WITH USC ASBESTOS ABATEMENT TEAM (AAT), AND SHALL BE COORDINATED WITH STRUCTURAL SYSTEMS.
12. 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".
13. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR INTENDED USE.
14. FIRE ALARM FLOOR PLAN AND RISER DIAGRAM ARE DIAGRAMMATIC. CONDUIT RUNS AND MANNER OF CONNECTION SHALL BE DETERMINED BY THE CONTRACTOR IN ACCORDANCE WITH THE FIRE ALARM SYSTEM MANUFACTURER RECOMMENDATIONS AND NFPA 70.
15. ALL FIRE ALARM SYSTEM (FA) COMPONENTS SHOWN ON FA DRAWINGS SHALL BE NEW AND COMPATIBLE.
16. REFER TO PLAN DRAWINGS FOR APPROXIMATE FIRE ALARM SYSTEM QUANTITIES AND LOCATIONS. FIRE ALARM CONTRACTOR SHALL VISIT JOB SITE PRIOR TO BID TO BECOME FAMILIAR WITH EXISTING SYSTEM ARRANGEMENT AND SITE CONDITIONS FOR NEW SYSTEM INSTALLATION, TO PROVIDE A COMPREHENSIVE AND COMPLETE BID, SYSTEM DESIGN AND INSTALLATION.
17. PROVIDE TRANSIENT VOLT SURGE SUPPRESSION DEVICE WHERE CIRCUITS PENETRATE THE BUILDING ENVELOPE.
18. PROVIDE ADDRESSABLE MONITOR MODULES FOR NON-ADDRESSABLE DEVICES.
19. STROBE FOR AUDIO/VISUAL DEVICES SHALL HAVE WHITE/CLEAR LENS AND BE LABELED "FIRE".
20. NOTIFICATION APPLIANCE CIRCUITS (NAC) SHALL BE CLASS B.
21. SIGNALING LINE CIRCUITS (SLC) SHALL BE CLASS B.
22. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH FIRE ALARM VENDOR FOR SYSTEM OPERATING INSTRUCTIONS AND WIRING DIAGRAMS.
23. 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.
24. ALL DUCT DETECTORS (SUPPLY, RETURN AND PLENUM TYPES) SHALL BE PROVIDED WITH REMOTE STATUS INDICATION.
25. FIRE ALARM SIGNALS AND EMERGENCY COMMUNICATIONS SHALL TAKE PRECEDENCE OVER ALL OTHER SIGNALS, SUCH AS BUT NOT LIMITED TO PUBLIC ADDRESS SYSTEMS.
26. 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 TEAM (AAT).
27. NOT ALL SITE CONDITIONS ARE SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL SITE CONDITIONS PRIOR TO BID, INCLUDING EXISTING SYSTEM ARRANGEMENT AND SITE CONDITIONS FOR NEW SYSTEM INSTALLATION, DESIGN AND INSTALLATION FOR A COMPREHENSIVE AND COMPLETE BID.
28. EXISTING SYSTEM SHALL BE REMOVED IN ITS ENTIRETY 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.
29. THE EXISTING FACP SHALL BE REMOVED AND RETURNED TO EHS FIRE SAFETY, USC FIRE MARSHALS OFFICE.



1 TYPICAL WALL DEVICE MOUNTING HEIGHTS
F-0 NOT TO SCALE



2 TYPICAL ADDRESSABLE INTERFACE MODULE WIRING DIAGRAM
F-0 NOT TO SCALE

GENERAL FIRE ALARM NOTES (CONTINUED):

30. 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.
31. 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.
32. 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.
33. SYSTEM IMPAIRMENTS AND OUT-OF-SERVICE EVENTS SHALL BE IN CONDUCTED IN ACCORDANCE WITH NFPA 72, IFC AND USC EHS FIRE SAFETY REQUIREMENTS.
34. ALL NIGHT WORK SHALL BE COORDINATED WITH THE USC PROJECT MANAGER.
35. MODIFICATIONS TO THE EXISTING ELEVATOR CONTROLLER AND CABS ARE NOT INCLUDED IN THIS SCOPE OF WORK.



SEAL:	
CHECKED BY:	
DATE:	16-13-12
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DATE:	
DESCRIPTION:	
BUILDING:	56
REV:	

PROJECT TITLE: USC WILLIAMS-BRICE BUILDING
FIRE ALARM LEGEND, NOTES & DETAILS

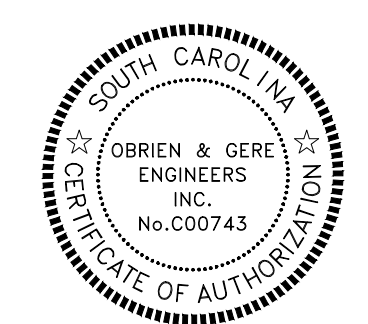
University of South Carolina

SHEET:

F-0
OF

SHEET IN SET:

2 OF 21

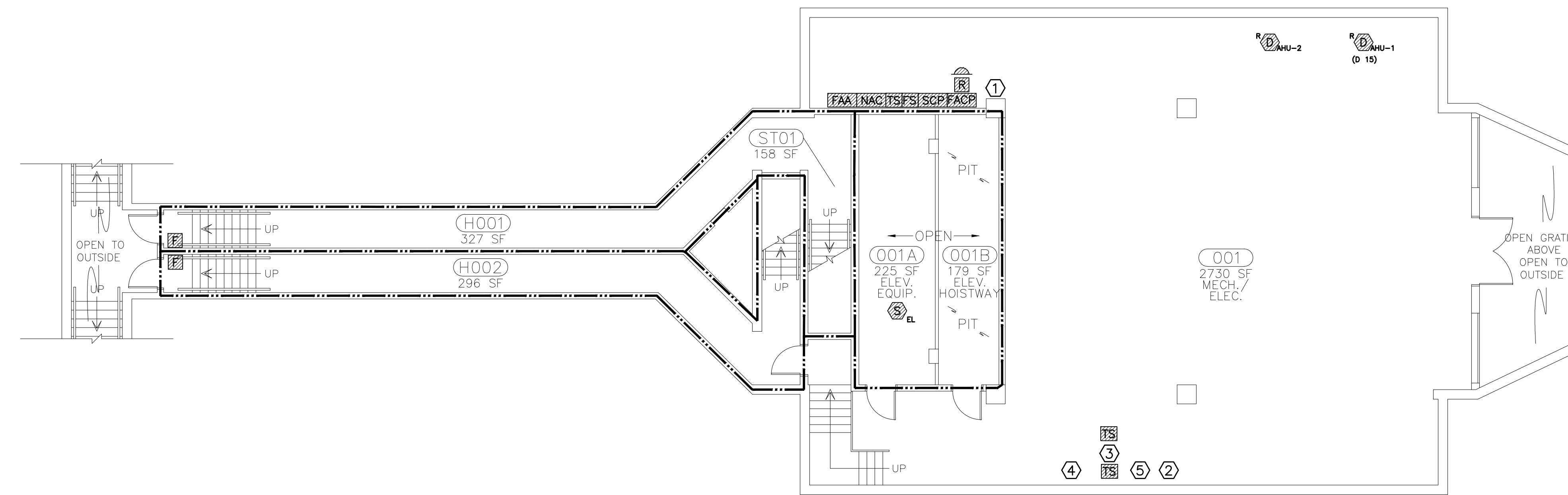


PLAN NOTES

1. THIS LEVEL IS NOT PROVIDED WITH FIRE SPRINKLER PROTECTION.
2. ALL CEILINGS ARE EXPOSED TO STRUCTURE ([EXP])

KEY NOTES (X)

1. ELECTRIC PANEL AA, 100-AMP, 120/208V, 3-PH, 4-WIRE. BREAKER NO. 15 & 17 FOR FIRE ALARM. BREAKER NO. 12 FOR NAC.
2. EXISTING BACKFLOW PREVENTION DEVICE (BFPD) WITHOUT ELECTRICAL SUPERVISION.
3. EXISTING ELECTRIC DRIVEN FIRE PUMP UNIT TO REMAIN.
4. EXISTING FIRE PUMP CONTROLLER TO REMAIN.
5. EXISTING JOCKEY PUMP CONTROLLER TO REMAIN.
6. 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.



PLAN LEGEND:

[EXP] EXPOSED TO STRUCTURE ABOVE

FIRE ALARM LEGEND (FOR DEMOLITION):

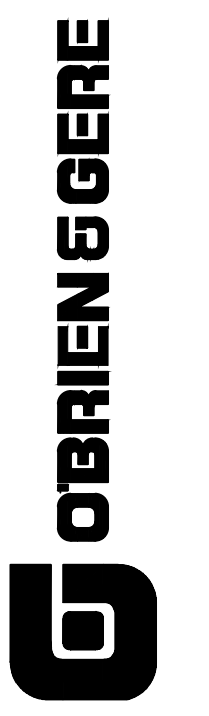
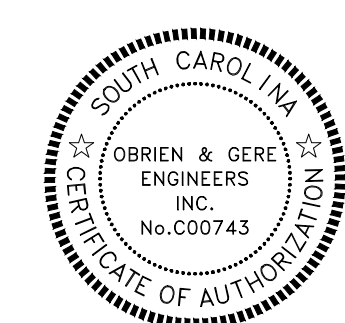
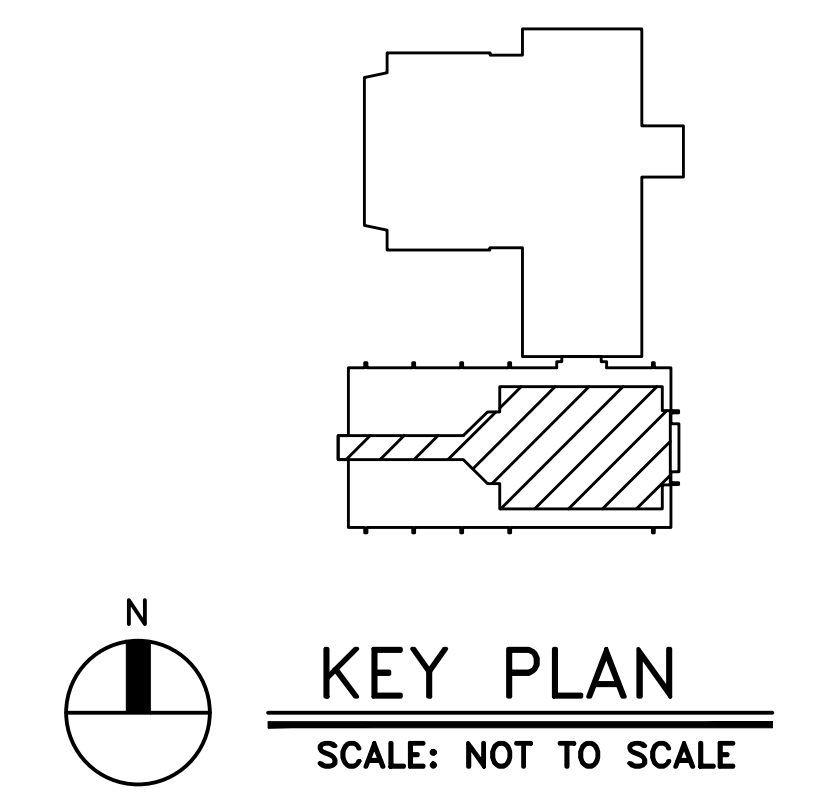
- [Symbol] BELL APPLIANCE
- [Symbol] SMOKE DETECTOR DEVICE
- [Symbol] TAMPER SWITCH - FIRE SPRINKLER
- [Symbol] WATER FLOW SWITCH
- [Symbol] FIRE ALARM CONTROL PANEL (UNIT)
- [Symbol] SUB-PANEL
- [Symbol] NOTIFICATION APPLIANCE CIRCUIT UNIT (PANEL)
- [Symbol] ANNUNCIATOR UNIT (PANEL)
- [Symbol] RELAY
- [Symbol] DUCT DETECTOR

SUB-SCRIPTS:

- R RETURN
- E ELEVATOR CONTROL FUNCTION

1 BASEMENT FIRE ALARM DEMOLITION PLAN - NURSES BUILDING
 FD-1 SCALE: 1/8" = 1' - 0"

(6) RATED WALL LEGEND
 - - - - - 2-HOUR FIRE RESISTANCE RATED BARRIER



DATE	DESCRIPTION	DATE	DESCRIPTION
16-13-12			

PROJECT TITLE: USC WILLIAMS-BRICE BUILDING
BASEMENT FIRE ALARM DEMOLITION PLAN

SHEET:
 FD-1
 OF
 SHEET IN SET:
 3 OF 21

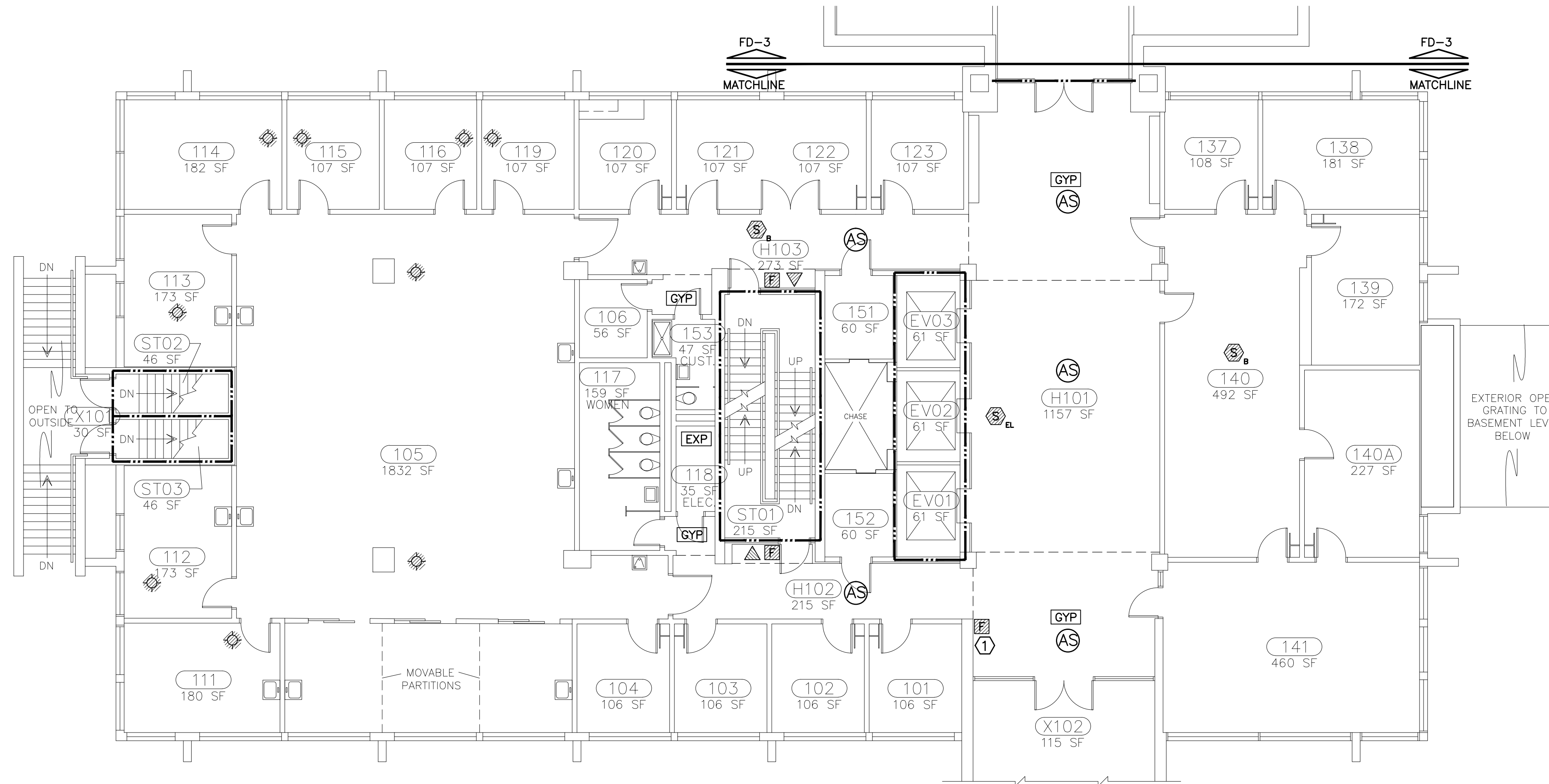
University of South Carolina

PLAN NOTES

1. THIS LEVEL IS PROVIDED WITH PARTIAL FIRE SPRINKLER PROTECTION.
2. ALL CEILINGS ARE LAY-IN (LIC) TYPE UNLESS NOTED OTHERWISE.

KEY NOTES (X)

- 1 GRAPHIC ANNUNCIATOR PANEL (NON-FUNCTIONING).
- 2 LOCATION OF POST INDICATOR VALVE WITHOUT ELECTRICAL SUPERVISION.
- 3 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.



PLAN LEGEND:

- GYP DRYWALL CEILING
- EXP EXPOSED TO STRUCTURE ABOVE
- LIC LAY-IN CEILING
- AS AUTOMATIC FIRE SPRINKLER PROTECTION

FIRE ALARM LEGEND (FOR DEMOLITION):

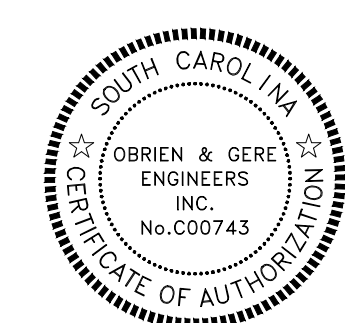
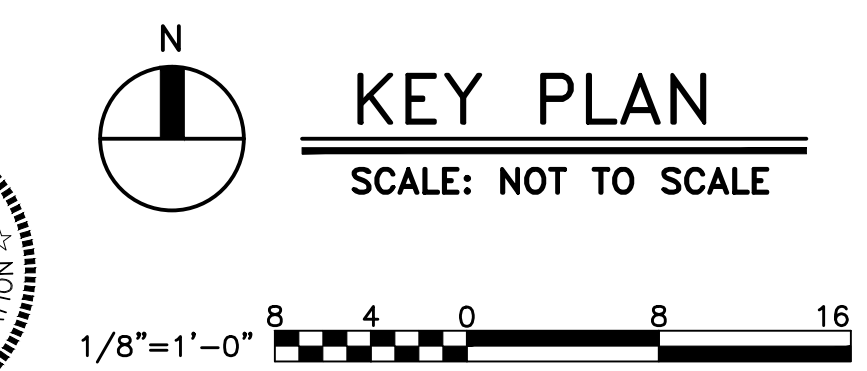
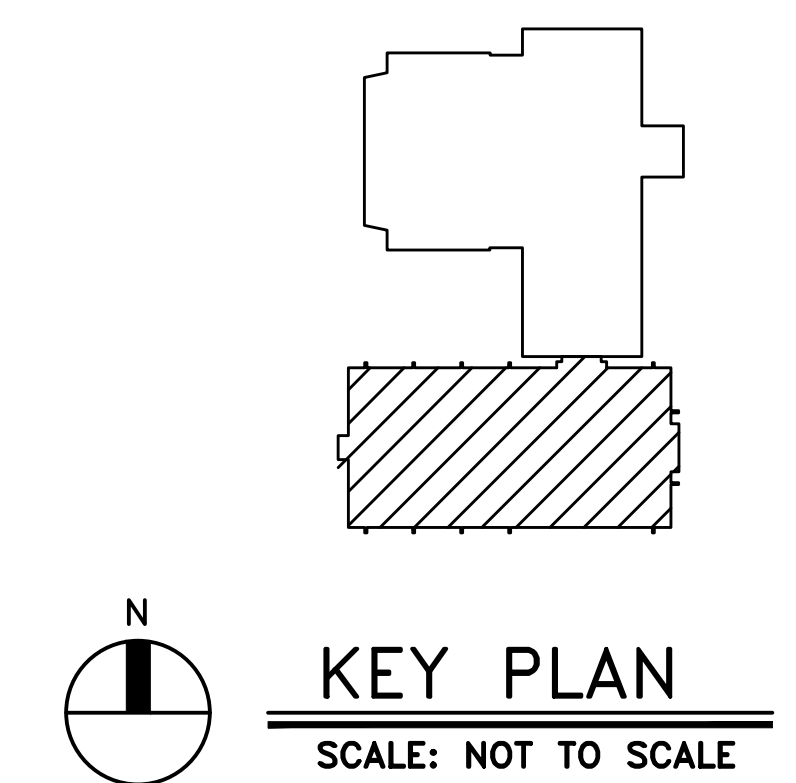
- MANUAL PULL BOX
- HORN APPLIANCE
- STROBE APPLIANCE (CEILING MOUNTED)
- SMOKE DETECTOR DEVICE

SUB-SCRIPTS:

- a BATTERY POWERED SMOKE ALARM
- b ELEVATOR CONTROL FUNCTION

1 FIRST FLOOR FIRE ALARM DEMOLITION PLAN - NURSES BUILDING
 SCALE: 1/8" = 1' - 0"

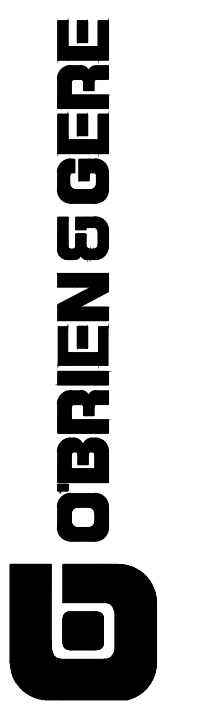
3 RATED WALL LEGEND
 2-HOUR FIRE RESISTANCE RATED BARRIER



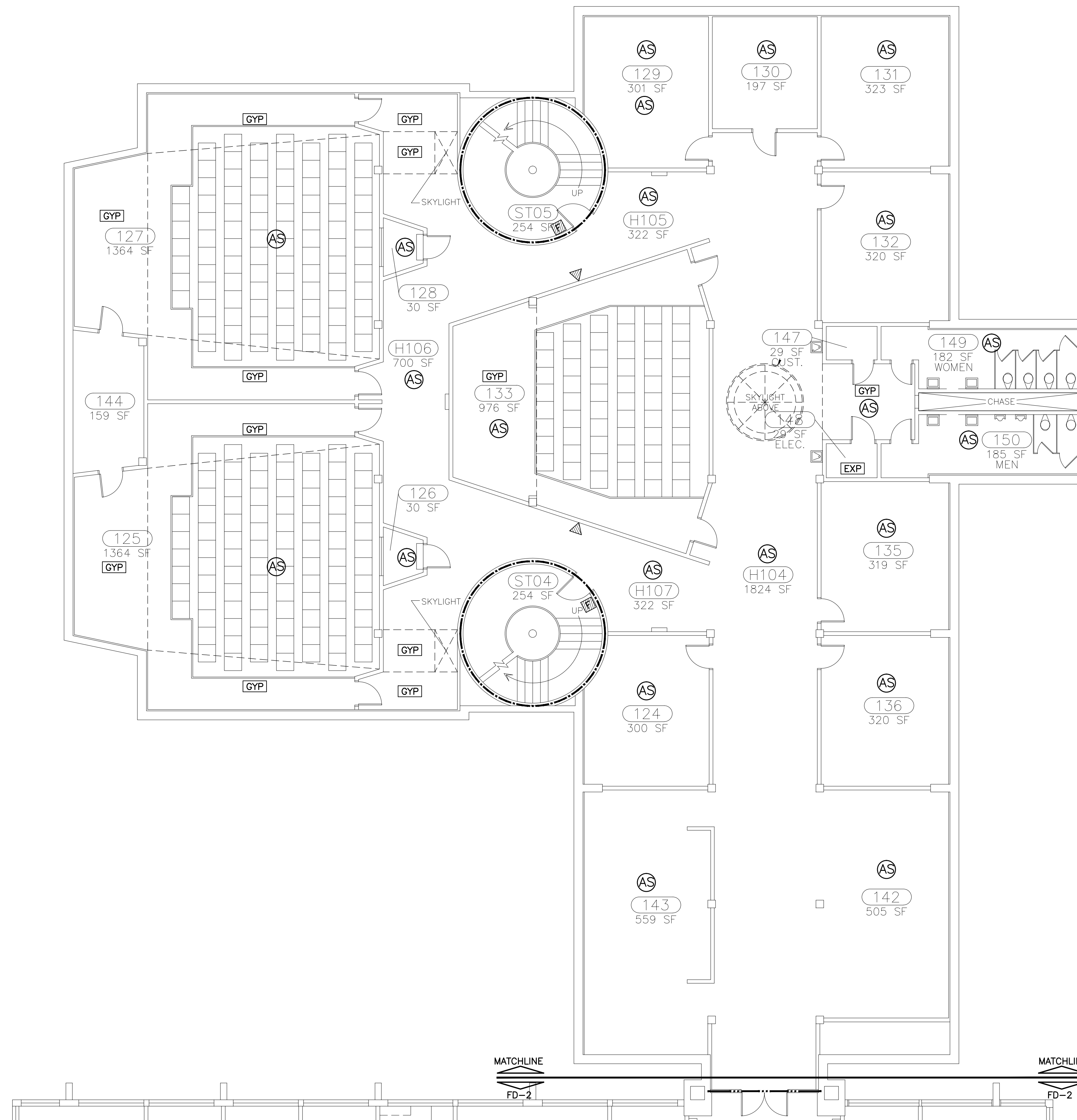
DATE	DESCRIPTION	DATE	DESCRIPTION

PROJECT TITLE: USC WILLIAMS-BRICE BUILDING
FIRST FLOOR FIRE ALARM DEMOLITION PLAN

SHEET: FD-2
 OF
SHEET IN SET: 4 OF 21



University of South Carolina



PLAN NOTES

1. THIS LEVEL IS PROVIDED WITH PARTIAL FIRE SPRINKLER PROTECTION.
2. ALL CEILINGS ARE LAY-IN (LIC) TYPE UNLESS NOTED OTHERWISE.

KEY NOTES (X)

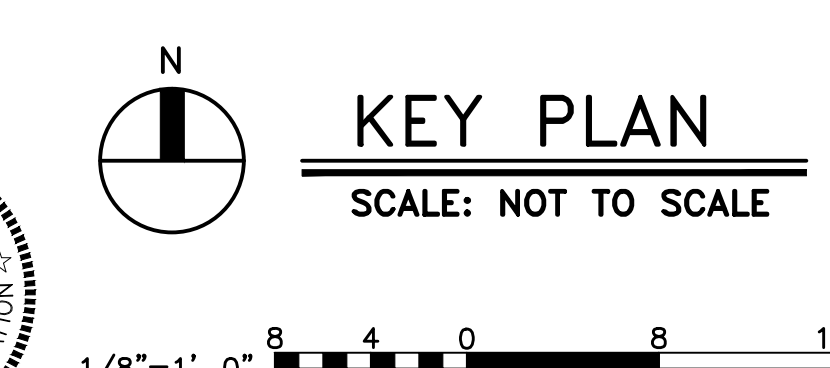
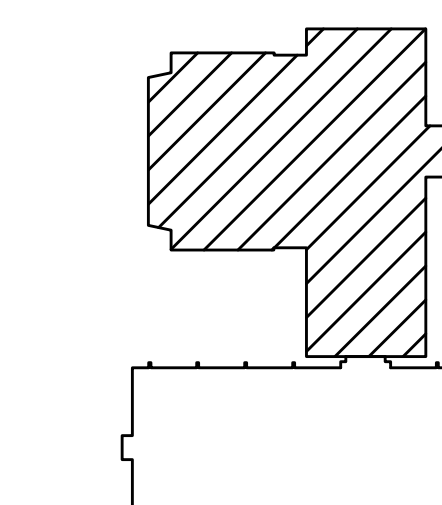
1. FIRE RESISTANCE RATING (FRR) OF WALL/FLOOR ASSEMBLIES ARE PROVIDED FOR INFORMATIONAL PURPOSES AND SURMISED TO BE AS INDICATED. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE FRR WALL/FLOOR ASSEMBLIES SHOWN. ALL PENETRATIONS OF WALL/FLOOR FRR ASSEMBLIES SHALL BE PROVIDED WITH A UL LISTED OR APPROVED FIRESTOPPING ASSEMBLY EQUAL TO THE FRR OF THE WALL/FLOOR.

PLAN LEGEND:

- GYP DRYWALL CEILING
- EXP EXPOSED TO STRUCTURE ABOVE
- LIC LAY-IN CEILING
- AS AUTOMATIC FIRE SPRINKLER PROTECTION

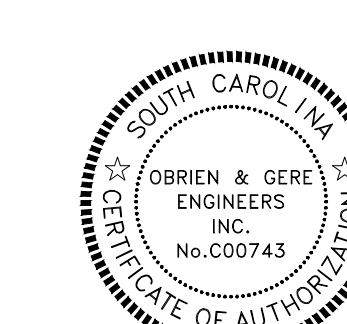
FIRE ALARM LEGEND (FOR DEMOLITION): (Hatched Box)

- MANUAL PULL BOX
- HORN APPLIANCE
- SMOKE DETECTOR DEVICE



1 FIRST FLOOR FIRE ALARM DEMOLITION PLAN – AUDITORIUM BUILDING
 SCALE: 1/8" = 1' - 0"

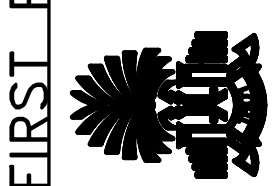
1 RATED WALL LEGEND
 - - - - - 1-HOUR FIRE RESISTANCE RATED BARRIER



DATE	DESCRIPTION	BY
16-13-12		

BUILDING: 56
 REV: 1
 PROJECT TITLE: USC WILLIAMS-BRICE BUILDING
 FIRST FLOOR FIRE ALARM DEMOLITION PLAN
 SHEET:

FD-3
 OF
 SHEET IN SET:
 5 OF 21



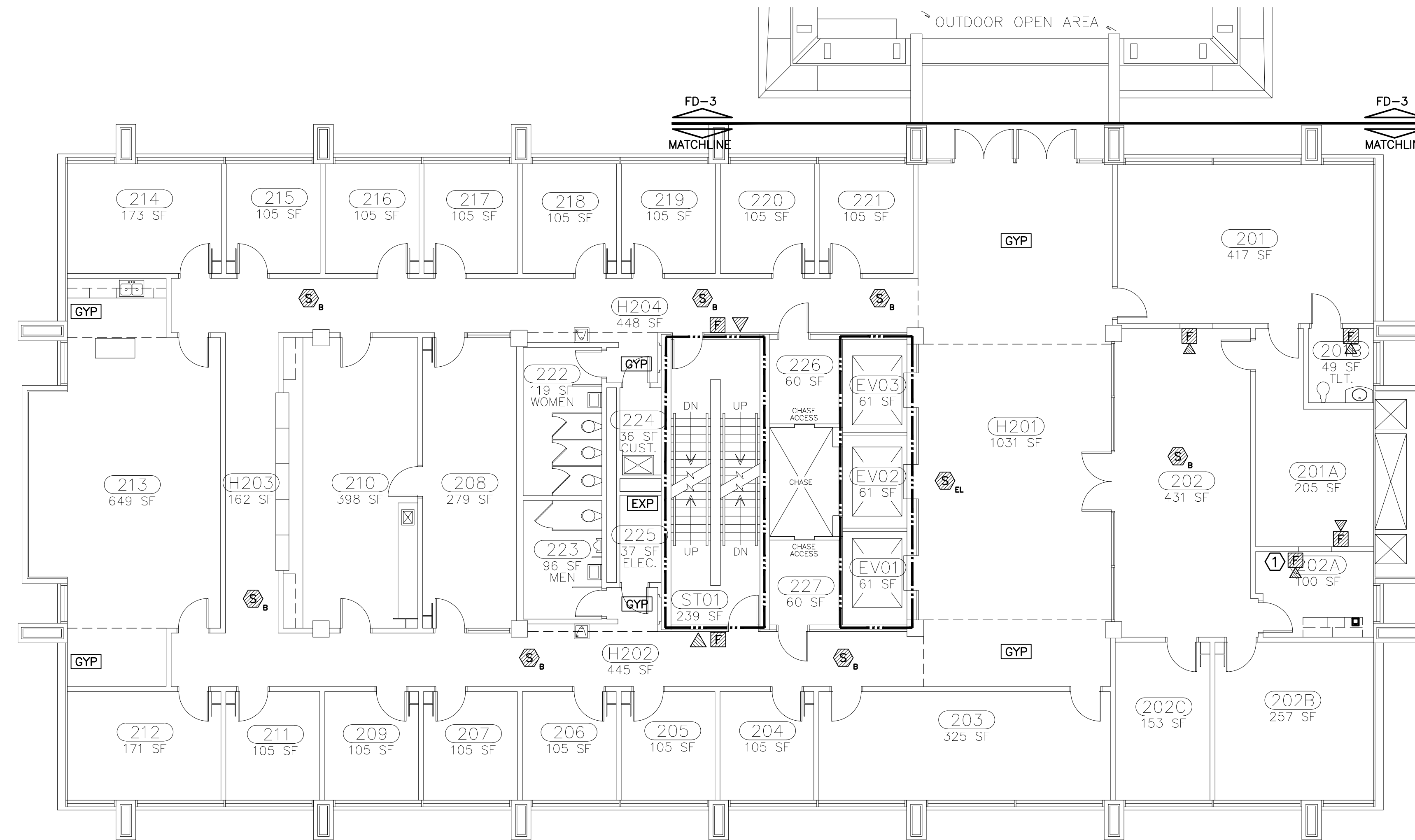
University of South Carolina

PLAN NOTES

1. THIS LEVEL IS NOT PROVIDED WITH FIRE SPRINKLER PROTECTION.
2. ALL CEILINGS ARE LAY-IN (LIC) TYPE UNLESS NOTED OTHERWISE.

KEY NOTES (X)

- 1 GRAPHIC ANNUNCIATOR PANEL (NON-FUNCTIONING).
- 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.



PLAN LEGEND:

- GYP DRYWALL CEILING
- EXP EXPOSED TO STRUCTURE ABOVE
- LIC LAY-IN CEILING

FIRE ALARM LEGEND (FOR DEMOLITION)

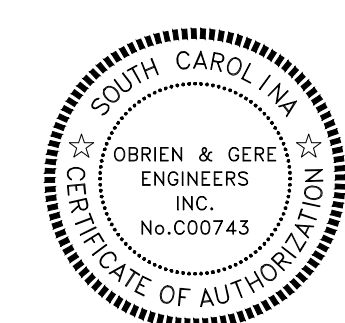
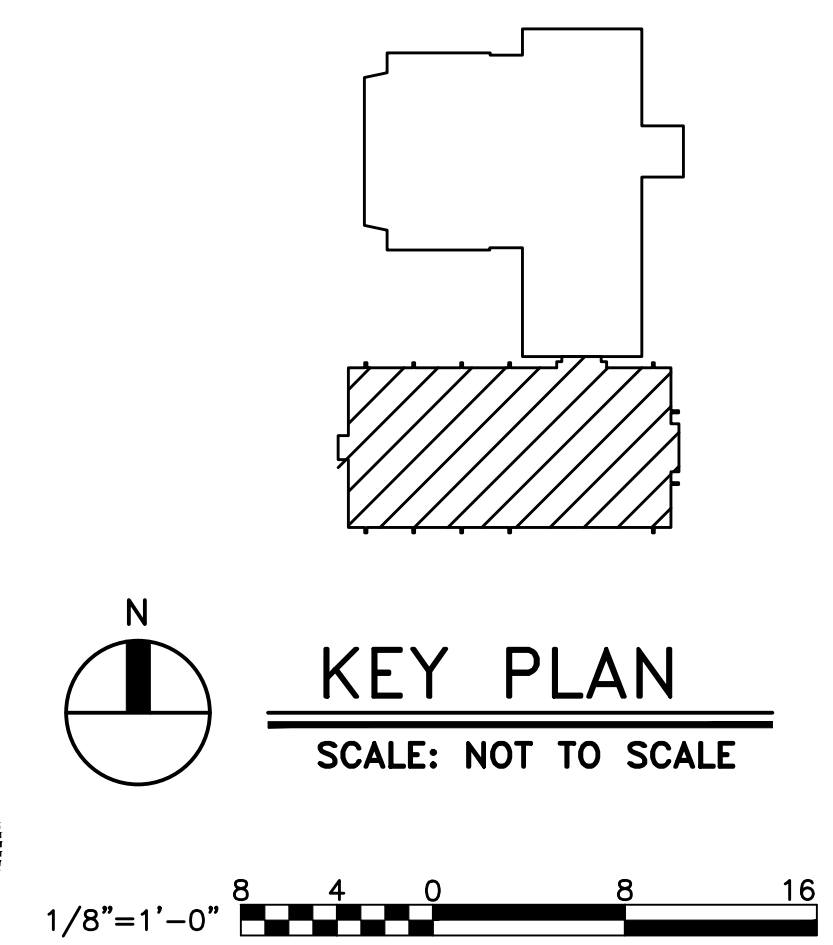
- MANUAL PULL BOX
- HORN APPLIANCE
- HORN/STROBE APPLIANCE
- SMOKE DETECTOR DEVICE

SUB-SCRIPTS:

- a BATTERY POWERED SMOKE ALARM
- b ELEVATOR CONTROL FUNCTION

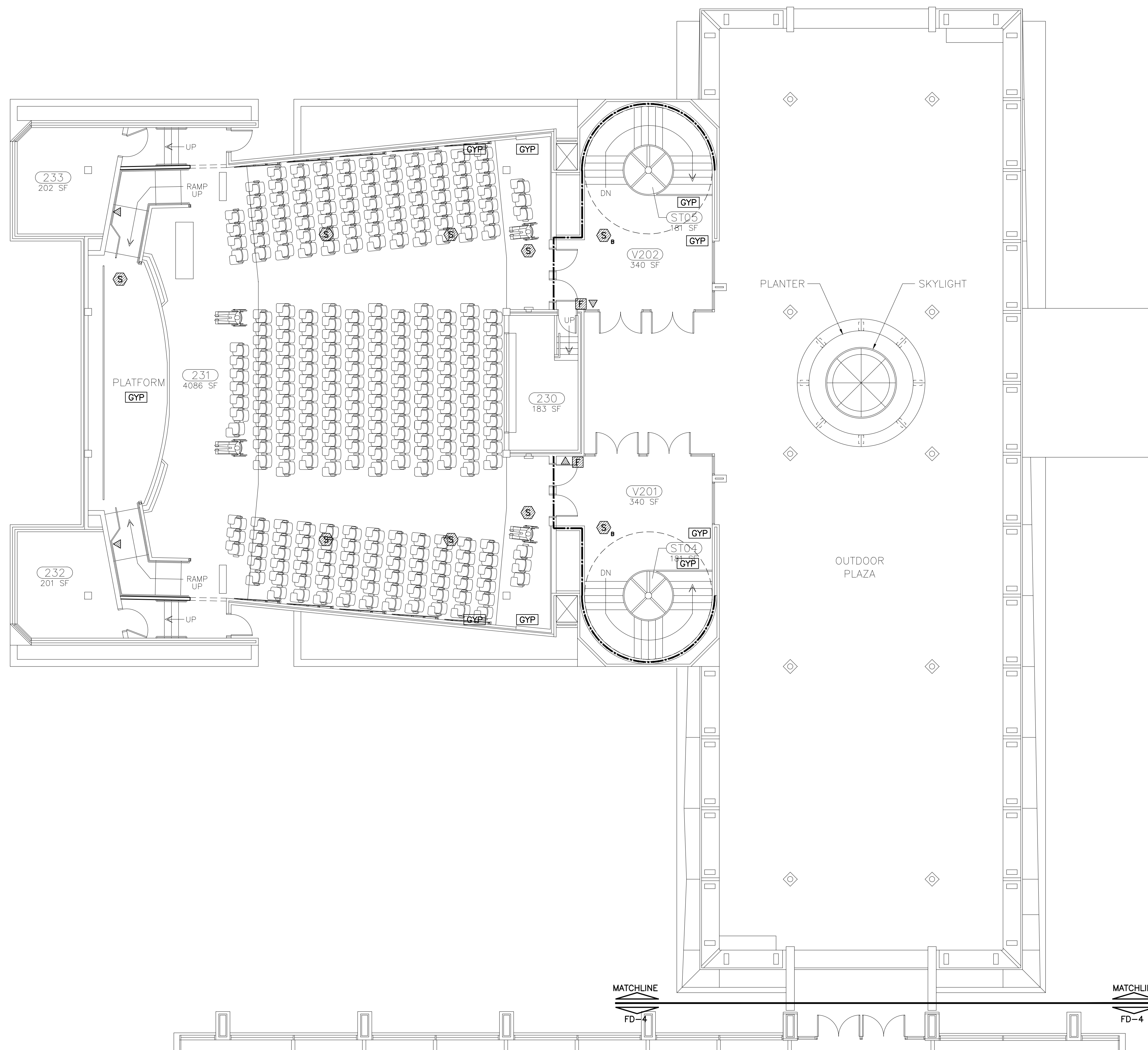
1 SECOND FLOOR FIRE ALARM DEMOLITION PLAN - NURSES BUILDING
 SCALE: 1/8" = 1' - 0"

2 RATED WALL LEGEND
 2-HOUR FIRE RESISTANCE RATED BARRIER



BUILDING:	DRAWING:	DATE:	DRAWN BY:	CHECKED BY:	ORIG. BY:
S6		6-13-12	CLB		
REV:	DESCRIPTION:	DATE:	BY:	DATE:	BY:





PLAN NOTES

1. THIS LEVEL IS NOT PROVIDED WITH FIRE SPRINKLER PROTECTION.
2. ALL CEILINGS ARE LAY-IN (LIC) TYPE UNLESS NOTED OTHERWISE.

KEY NOTES (X)

1. 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.

PLAN LEGEND:

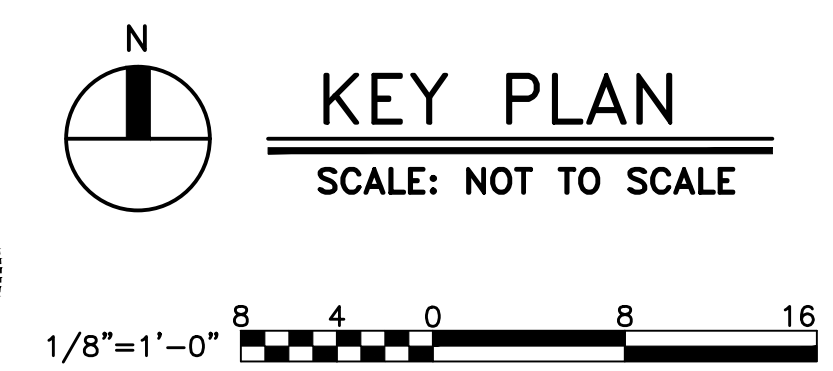
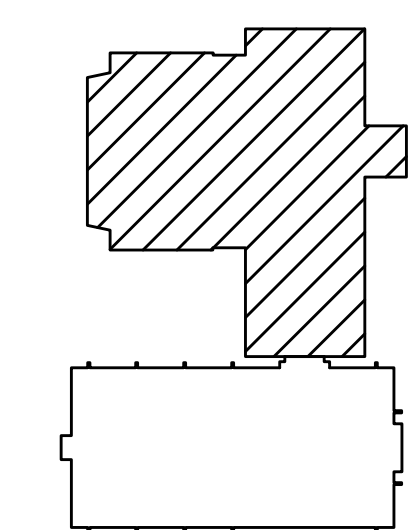
- [GYP] DRYWALL CEILING
- [EXP] EXPOSED TO STRUCTURE ABOVE
- [LIC] LAY-IN CEILING

FIRE ALARM LEGEND (FOR DEMOLITION):

- [Symbol] MANUAL PULL BOX
- [Symbol] HORN APPLIANCE
- [Symbol] SMOKE DETECTOR DEVICE

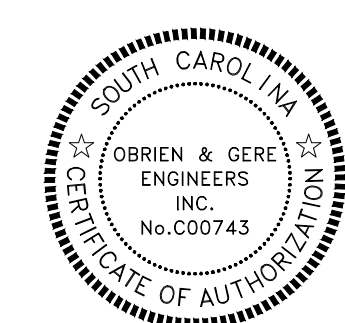
SUB-SCRIPTS:

- a. BATTERY POWERED SMOKE ALARM
- b. ELEVATOR CONTROL FUNCTION



1 SECOND FLOOR FIRE ALARM DEMOLITION PLAN - AUDITORIUM BUILDING
 FD-5 SCALE: 1/8" = 1' - 0"

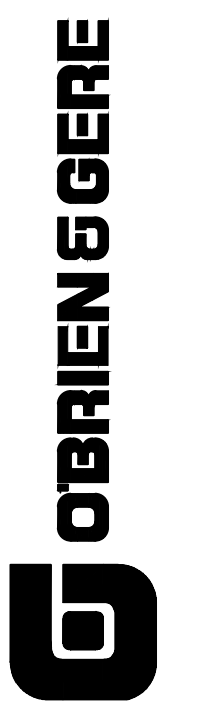
RATED WALL LEGEND
 --- 1-HOUR FIRE RESISTANCE RATED BARRIER



DATE	DESCRIPTION	BY
6-13-12	DRYING	CLB

PROJECT TITLE: USC WILLIAMS-BRICE BUILDING
SECOND FLOOR FIRE ALARM DEMOLITION PLAN

SHEET: FD-5
 OF
SHEET IN SET: 7 OF 21



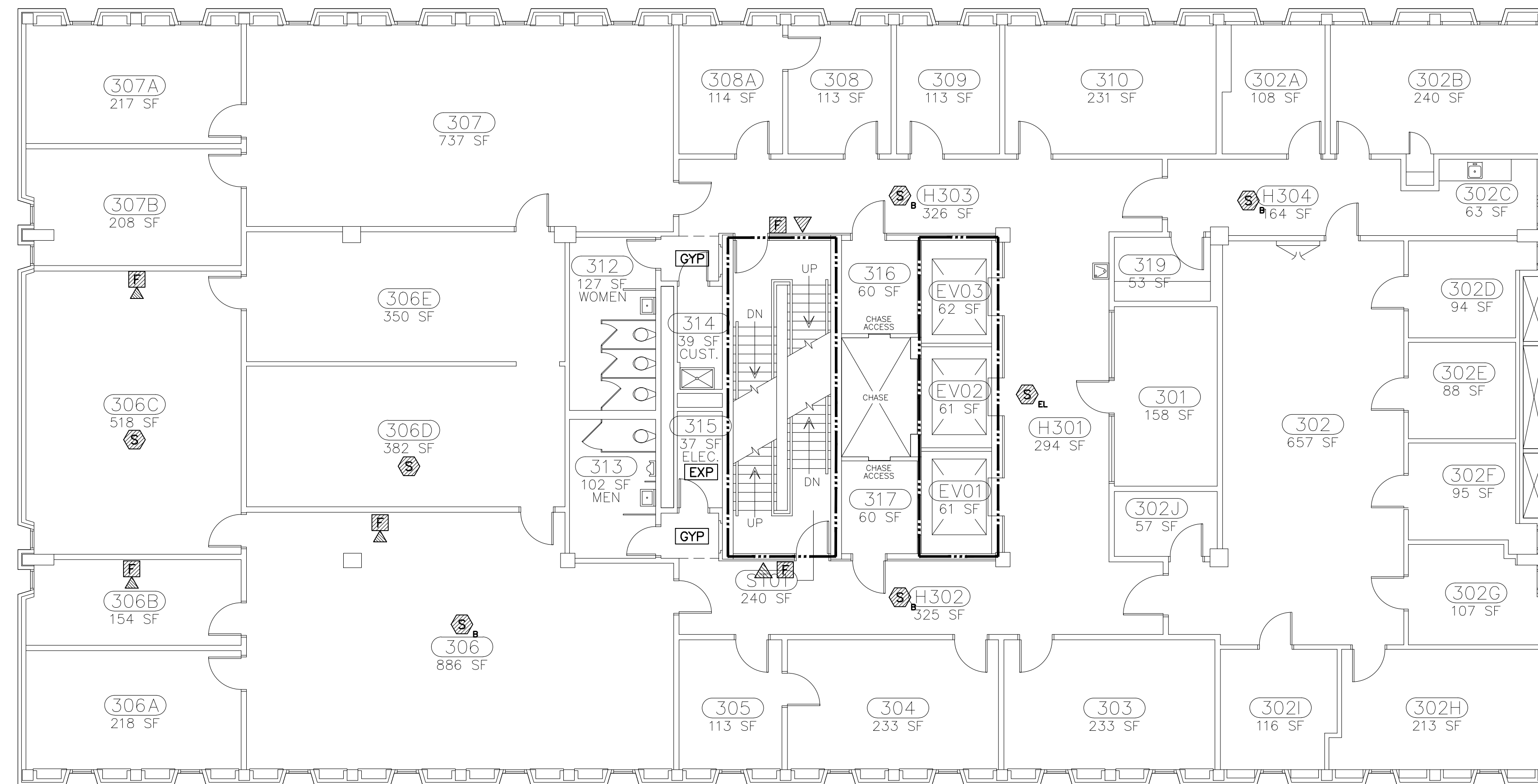
University of South Carolina

PLAN NOTES

1. THIS LEVEL IS NOT PROVIDED WITH FIRE SPRINKLER PROTECTION.
2. ALL CEILINGS ARE LAY-IN (LIC) TYPE UNLESS NOTED OTHERWISE.

KEY NOTES (X)

1. 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.



PLAN LEGEND:

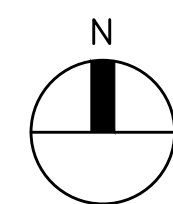
- (GYP) DRYWALL CEILING
- (EXP) EXPOSED TO STRUCTURE ABOVE
- (LIC) LAY-IN CEILING

FIRE ALARM LEGEND (FOR DEMOLITION):

- (M) MANUAL PULL BOX
- (H) HORN APPLIANCE
- (HS) HORN/STROBE APPLIANCE
- (SD) SMOKE DETECTOR DEVICE

SUB-SCRIPTS:

- a. BATTERY POWERED SMOKE ALARM
- b. ELEVATOR CONTROL FUNCTION

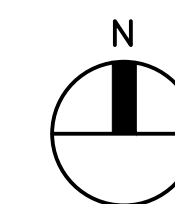


1 THIRD FLOOR FIRE ALARM DEMOLITION PLAN - NURSES BUILDING

FD-6 SCALE: 1/8" = 1' - 0"

1 RATED WALL LEGEND

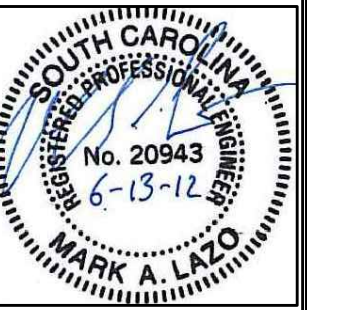
----- 2-HOUR FIRE RESISTANCE RATED BARRIER



KEY PLAN

SCALE: NOT TO SCALE

1/8"=1'-0" 8 4 0 8 16



SEAL:

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PROJECT TITLE: USC WILLIAMS-BRICE BUILDING THIRD FLOOR FIRE ALARM DEMOLITION PLAN

SHEET:

FD-6

OF

SHEET IN SET:

8 OF 21

University of South Carolina

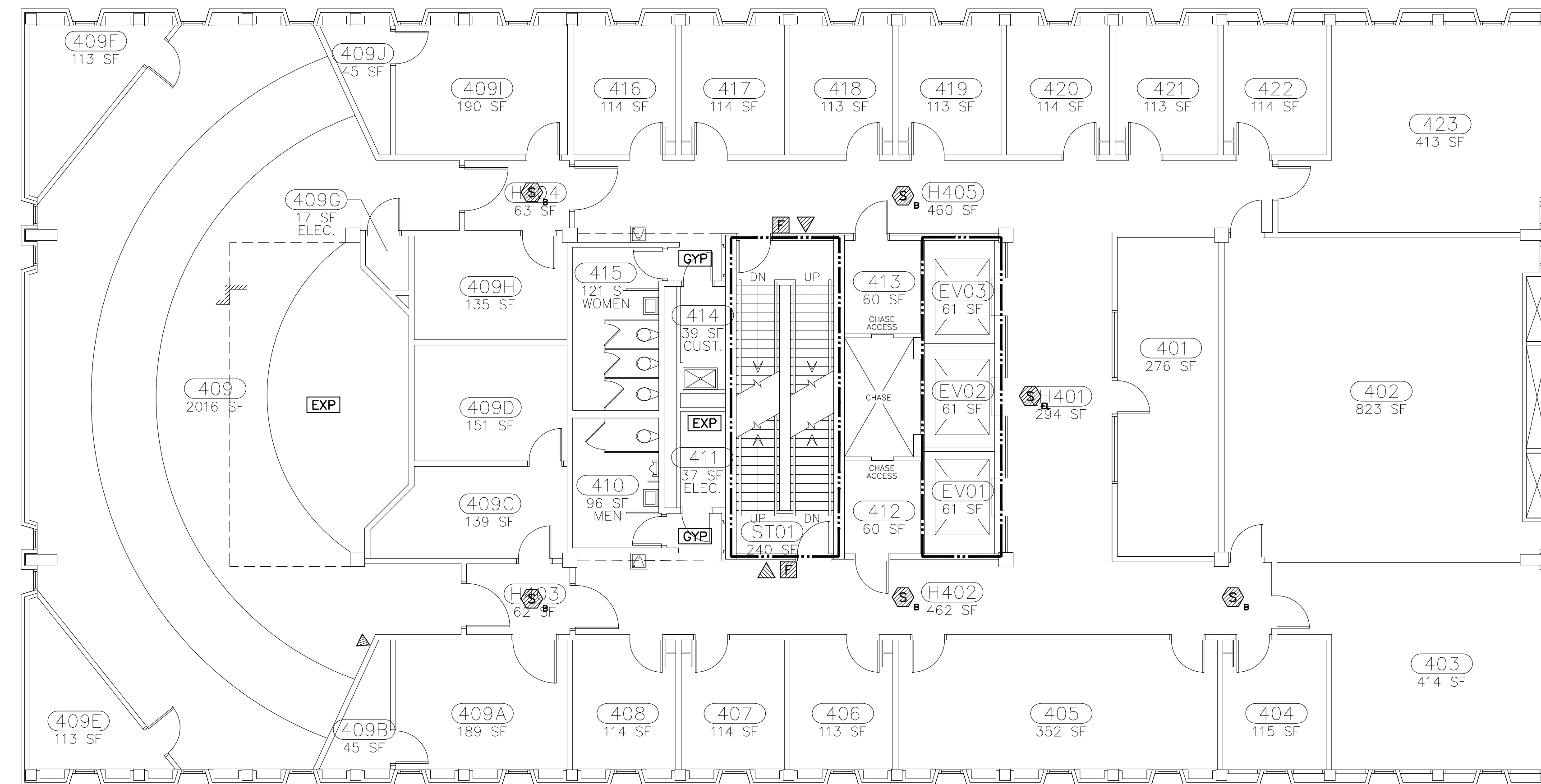


PLAN NOTES

1. THIS LEVEL IS NOT PROVIDED WITH FIRE SPRINKLER PROTECTION.
2. ALL CEILINGS ARE LAY-IN (LIC) TYPE UNLESS NOTED OTHERWISE.

KEY NOTES (X)

- 1 GRAPHIC ANNUNCIATOR PANEL (NON-FUNCTIONING).
- 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.



PLAN LEGEND:

- GYP DRYWALL CEILING
- EXP EXPOSED TO STRUCTURE ABOVE
- LIC LAY-IN CEILING

FIRE ALARM LEGEND (FOR DEMOLITION):

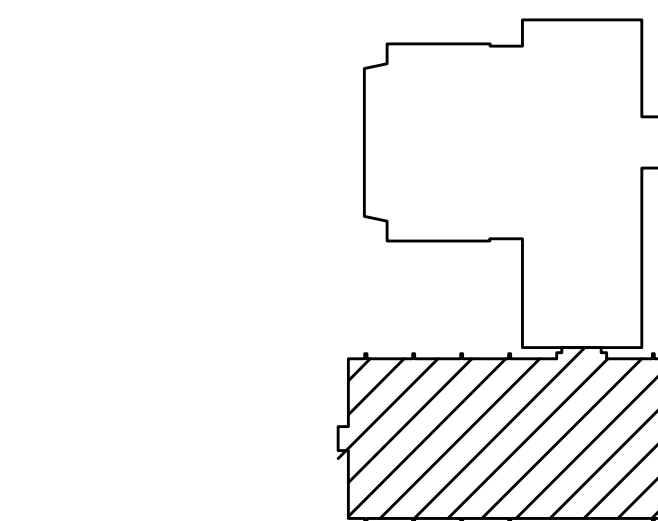
- MANUAL PULL BOX
- HORN APPLIANCE
- SMOKE DETECTOR DEVICE

SUB-SCRIPTS:

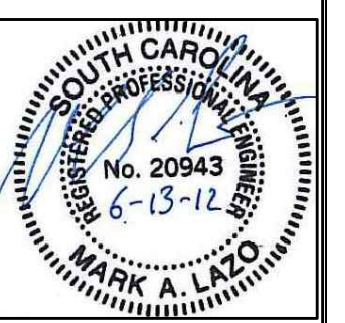
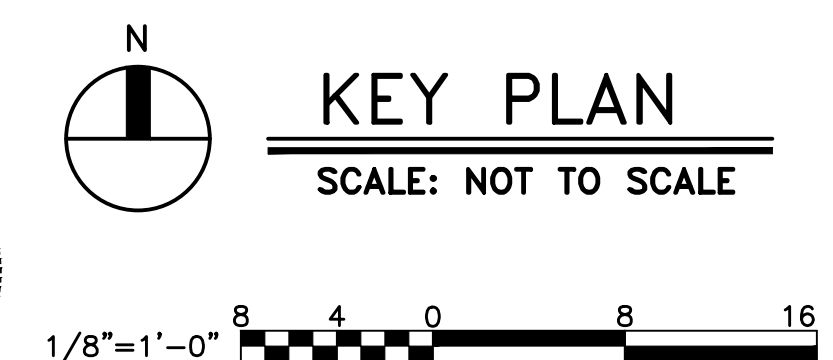
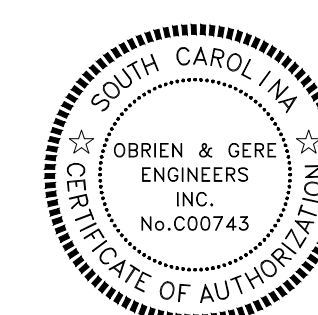
- a BATTERY POWERED SMOKE ALARM
- b ELEVATOR CONTROL FUNCTION

1 FOURTH FLOOR FIRE ALARM DEMOLITION PLAN – NURSES BUILDING
 SCALE: 1/8" = 1' - 0"

2 RATED WALL LEGEND
 2-HOUR FIRE RESISTANCE RATED BARRIER



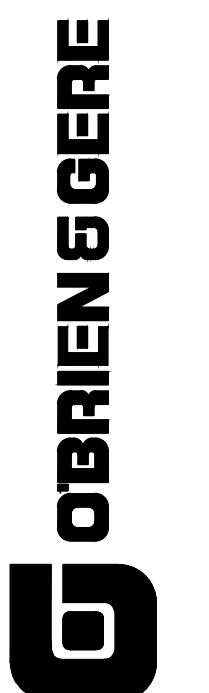
KEY PLAN
 SCALE: NOT TO SCALE



DATE	DESCRIPTION	BY
16-13-12		

PROJECT TITLE: USC WILLIAMS-BRICE BUILDING
FOURTH FLOOR FIRE ALARM DEMOLITION PLAN

SHEET: FD-7
 OF
SHEET IN SET: 9 OF 21



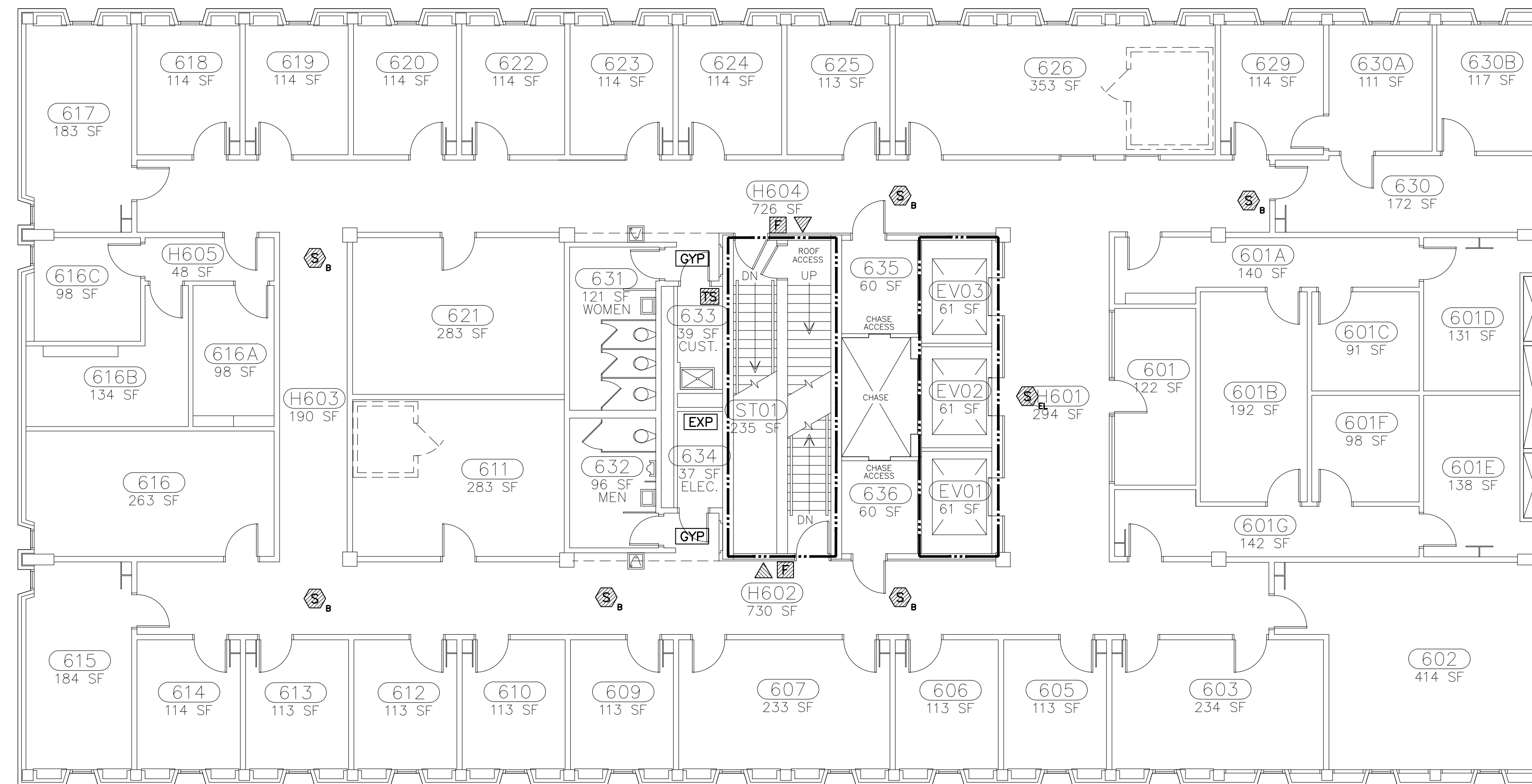
University of South Carolina

PLAN NOTES

1. THIS LEVEL IS NOT PROVIDED WITH FIRE SPRINKLER PROTECTION.
2. ALL CEILINGS ARE LAY-IN (LIC) TYPE UNLESS NOTED OTHERWISE.

KEY NOTES (X)

- 1 GRAPHIC ANNUNCIATOR PANEL (NON-FUNCTIONING).
- 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.



PLAN LEGEND:

- GYP DRYWALL CEILING
- EXP EXPOSED TO STRUCTURE ABOVE
- LIC LAY-IN CEILING

FIRE ALARM LEGEND (FOR DEMOLITION):

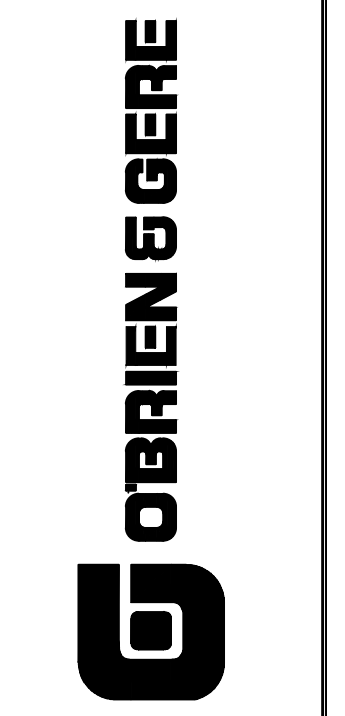
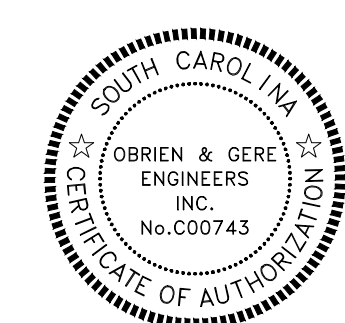
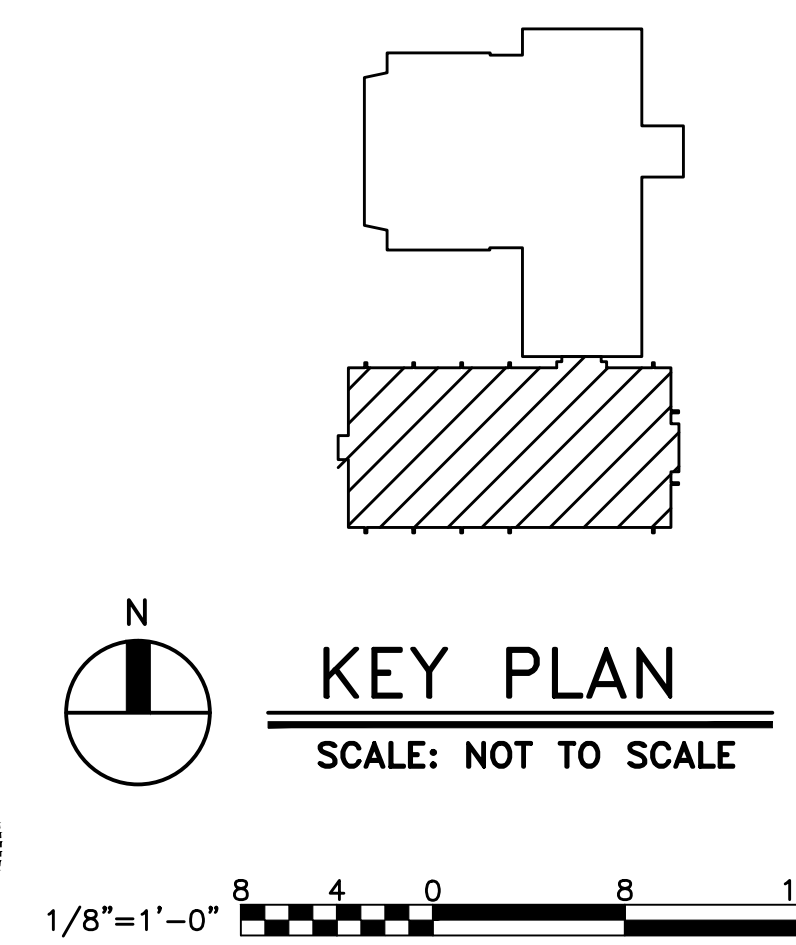
- MANUAL PULL BOX
- HORN APPLIANCE
- HORN/STROBE APPLIANCE
- SMOKE DETECTOR DEVICE
- TAMPER SWITCH - FIRE SPRINKLER

SUB-SCRIPTS:

- a BATTERY POWERED SMOKE ALARM
- b ELEVATOR CONTROL FUNCTION

SIXTH FLOOR FIRE ALARM DEMOLITION PLAN - NURSES BUILDING
 SCALE: 1/8" = 1' - 0"

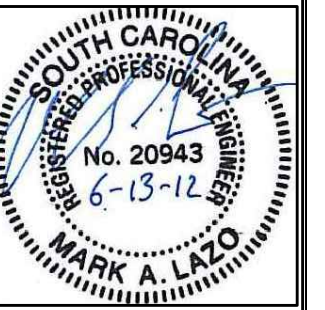
RATED WALL LEGEND
 2-HOUR FIRE RESISTANCE RATED BARRIER



DATE	DESCRIPTION	BY

PROJECT TITLE: USC WILLIAMS-BRICE BUILDING
SIXTH FLOOR FIRE ALARM DEMOLITION PLAN

SHEET: FD-9
 OF
 SHEET IN SET: 11 OF 21

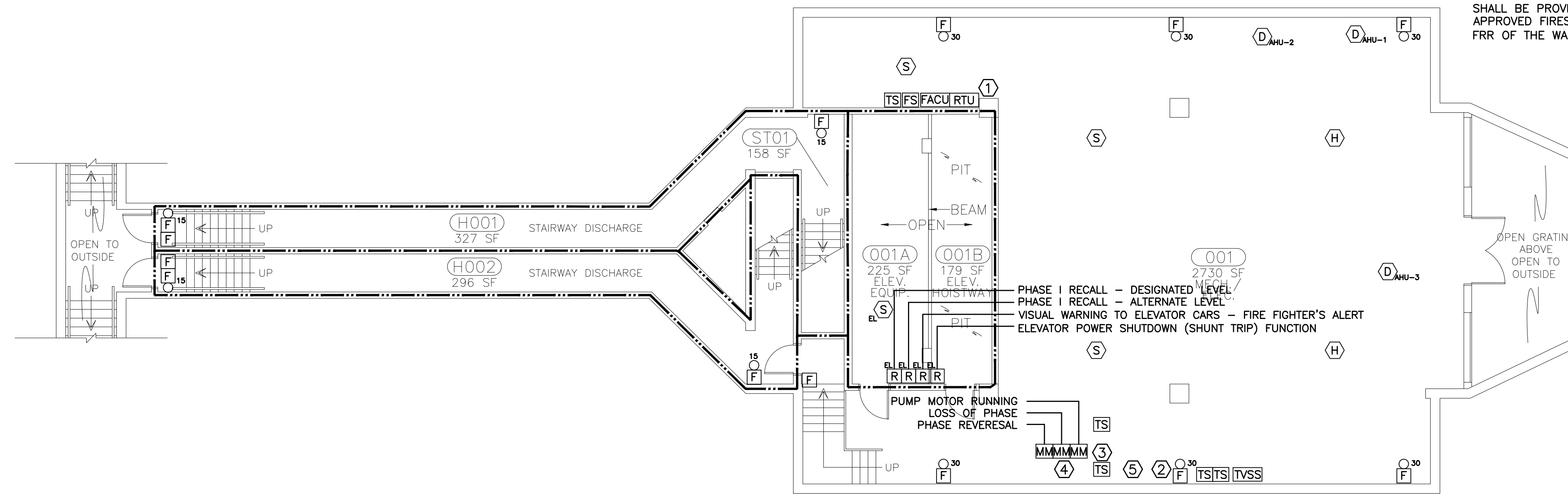


PLAN NOTES

1. THIS LEVEL IS NOT PROVIDED WITH FIRE SPRINKLER PROTECTION.
2. ALL CEILINGS ARE EXPOSED TO STRUCTURE ([EXP])

KEY NOTES (X)

1. ELECTRIC PANEL AA, 100-AMP, 120/208V, 3-PH, 4-WIRE. CONTRACTOR TO PROVIDE 120V DEDICATED POWER BRANCH CIRCUIT(S) TO FACU AND RTU. BREAKER SHALL BE IDENTIFIED AS "FIRE ALARM CIRCUIT" IN THE PANEL BOARD DIRECTORY. PROVIDE WITH RED MARKING AND MECHANICALLY SECURED. THE LOCATION OF THE DEDICATED BRANCH CIRCUIT SHALL BE IDENTIFIED AT THE CONTROL UNIT.
2. EXISTING BACKFLOW PREVENTION DEVICE (BFPD). PROVIDE NEW ELECTRICAL SUPERVISION.
3. EXISTING ELECTRIC DRIVEN FIRE PUMP UNIT TO REMAIN.
4. EXISTING FIRE PUMP CONTROLLER TO REMAIN.
5. EXISTING JOCKEY PUMP CONTROLLER TO REMAIN.
6. 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.



PLAN LEGEND:

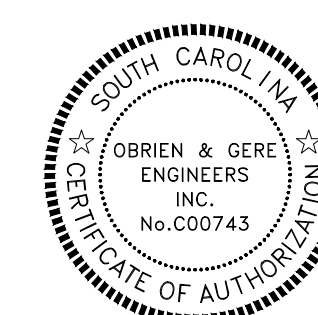
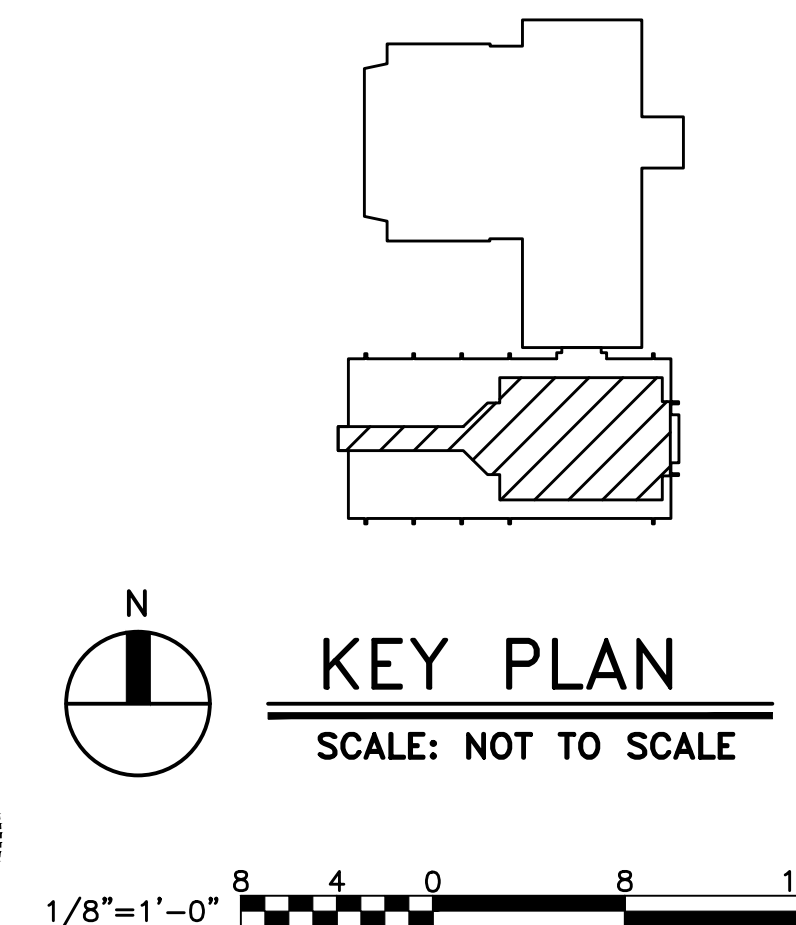
- [EXP] EXPOSED TO STRUCTURE ABOVE
- HEAT DETECTOR DEVICE (THERMAL DETECTOR)

FIRE ALARM LEGEND:

- [F] MAUNAL FIRE ALARM BOX (DOUBLE ACTION)
 - [S] SMOKE DETECTOR DEVICE - PHOTOELECTRIC
 - [H] HEAT DETECTOR DEVICE (THERMAL DETECTOR)
 - [TS] TAMPER SWITCH - FIRE SPRINKLER
 - [FS] WATER FLOW SWITCH - FIRE SPRINKLER
 - [FACU] FIRE ALARM/MASS NOTIFICATION CONTROL UNIT
 - [RTU] REMOTE TRANSMITTER UNIT
 - [R] RELAY MODULE
 - [D] DUCT DETECTOR DEVICE - PHOTOELECTRIC
 - [F_{co}] SPEAKER/STROBE APPLIANCE
 - [TVSS] TRANSIENT VOLTAGE SURGE SUPPRESSION
 - [MM] MONITOR MODULE
- SUB-SCRIPTS:
- r RETURN
 - e ELEVATOR CONTROL FUNCTION
 - co CANDELA RATING OF APPLIANCE

1 BASEMENT FIRE ALARM PLAN - NURSES BUILDING
 FA-1 SCALE: 1/8" = 1' - 0"

(6) RATED WALL LEGEND
 2-HOUR FIRE RESISTANCE RATED BARRIER



KEY PLAN
 SCALE: NOT TO SCALE

1/8"=1'-0" 8 4 0 8 16

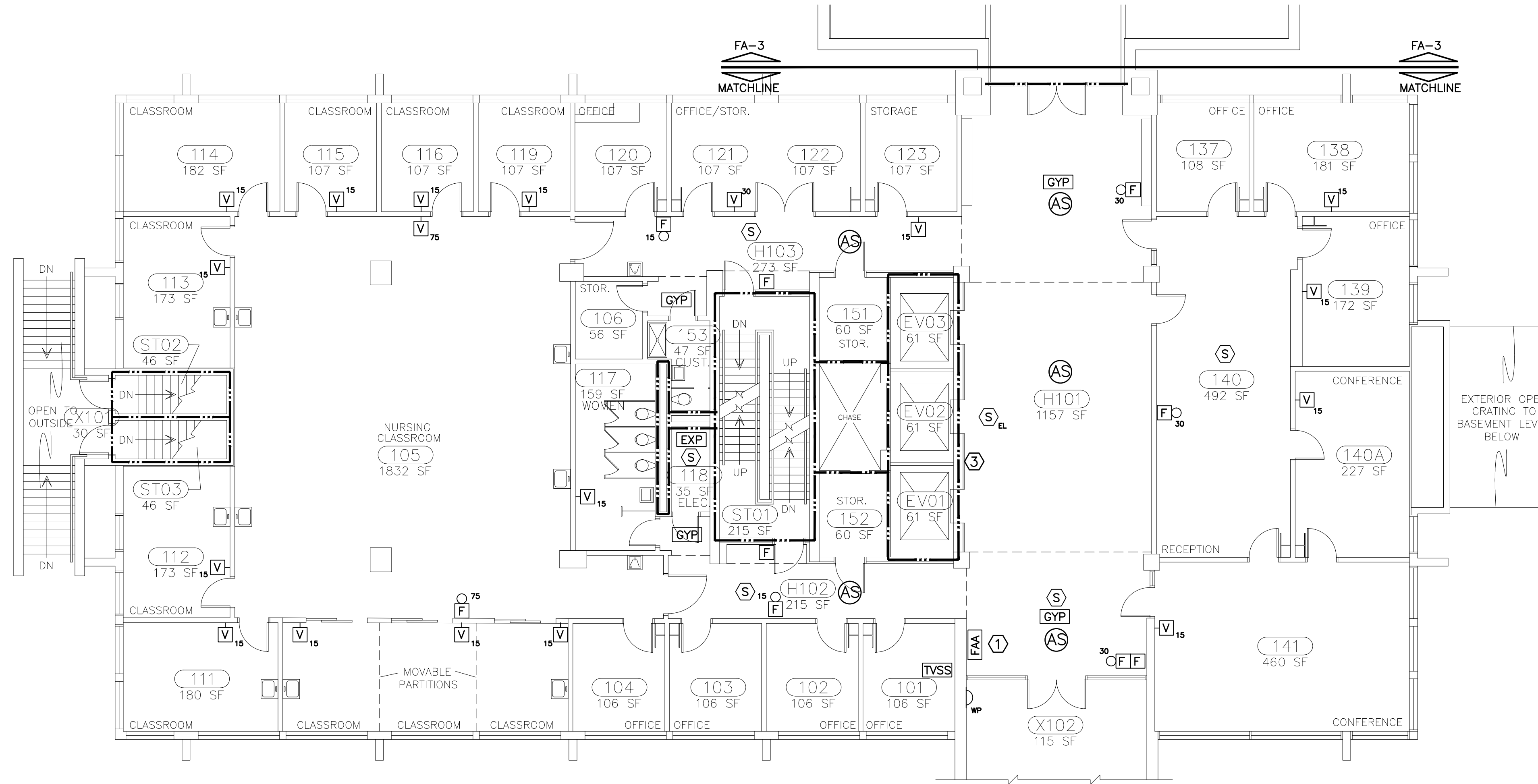
DATE	DESCRIPTION	DATE	DESCRIPTION
16-13-12			

PLAN NOTES

1. THIS LEVEL IS PROVIDED WITH PARTIAL FIRE SPRINKLER PROTECTION.
2. ALL CEILINGS ARE LAY-IN (LIC) TYPE UNLESS NOTED OTHERWISE.

KEY NOTES (X)

1. FIRE ALARM ANNUNCIATOR UNIT TO PROVIDE IDENTICAL FUNCTIONS AND DISPLAY AS THE FACU.
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. EXISTING FIRE FIGHTER'S KEY SWITCH TO REMAIN.



PLAN LEGEND:

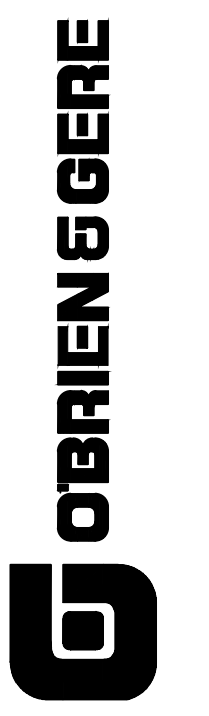
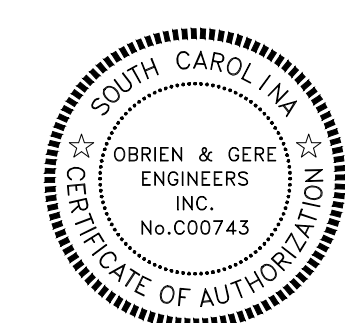
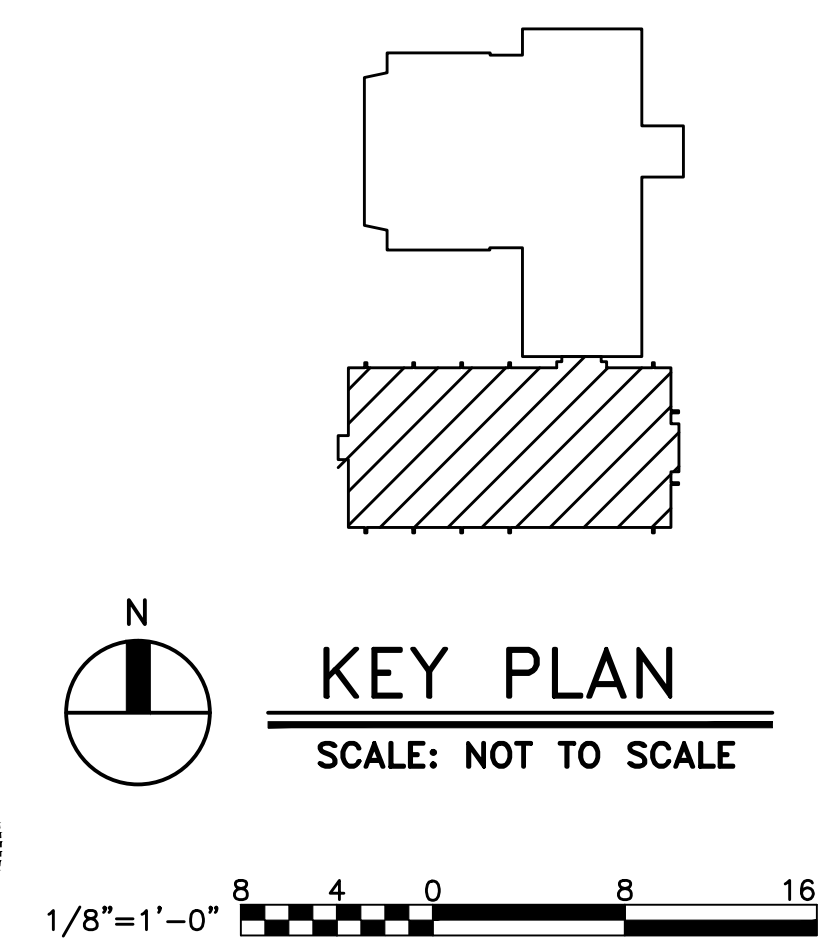
- GYP DRYWALL CEILING
- EXP EXPOSED TO STRUCTURE ABOVE
- LIC LAY-IN CEILING
- AS AUTOMATIC FIRE SPRINKLER PROTECTION

FIRE ALARM LEGEND:

- F MANUAL FIRE ALARM BOX (DOUBLE ACTION)
 - S SMOKE DETECTOR DEVICE - PHOTOELECTRIC
 - TS TAMPER SWITCH - FIRE SPRINKLER SYSTEM
 - FSP SPEAKER/STROBE APPLIANCE
 - V STROBE APPLIANCE (WALL MOUNTED)
 - CS STROBE APPLIANCE (CEILING MOUNTED)
 - FAA FIRE ALARM ANNUNCIATOR UNIT (PANEL)
 - EB ELECTRIC ALARM BELL WITH BACK BOX
 - MDC MAGNETIC DOOR HOLDER
- SUB-SCRIPTS:**
- EL ELEVATOR CONTROL FUNCTION
 - WP WEATHER PROOF
 - CD CANDELA RATING OF APPLIANCE

1 FIRST FLOOR FIRE ALARM PLAN - NURSES BUILDING
 FA-2 SCALE: 1/8" = 1' - 0"

2 RATED WALL LEGEND
 2-HOUR FIRE RESISTANCE RATED BARRIER

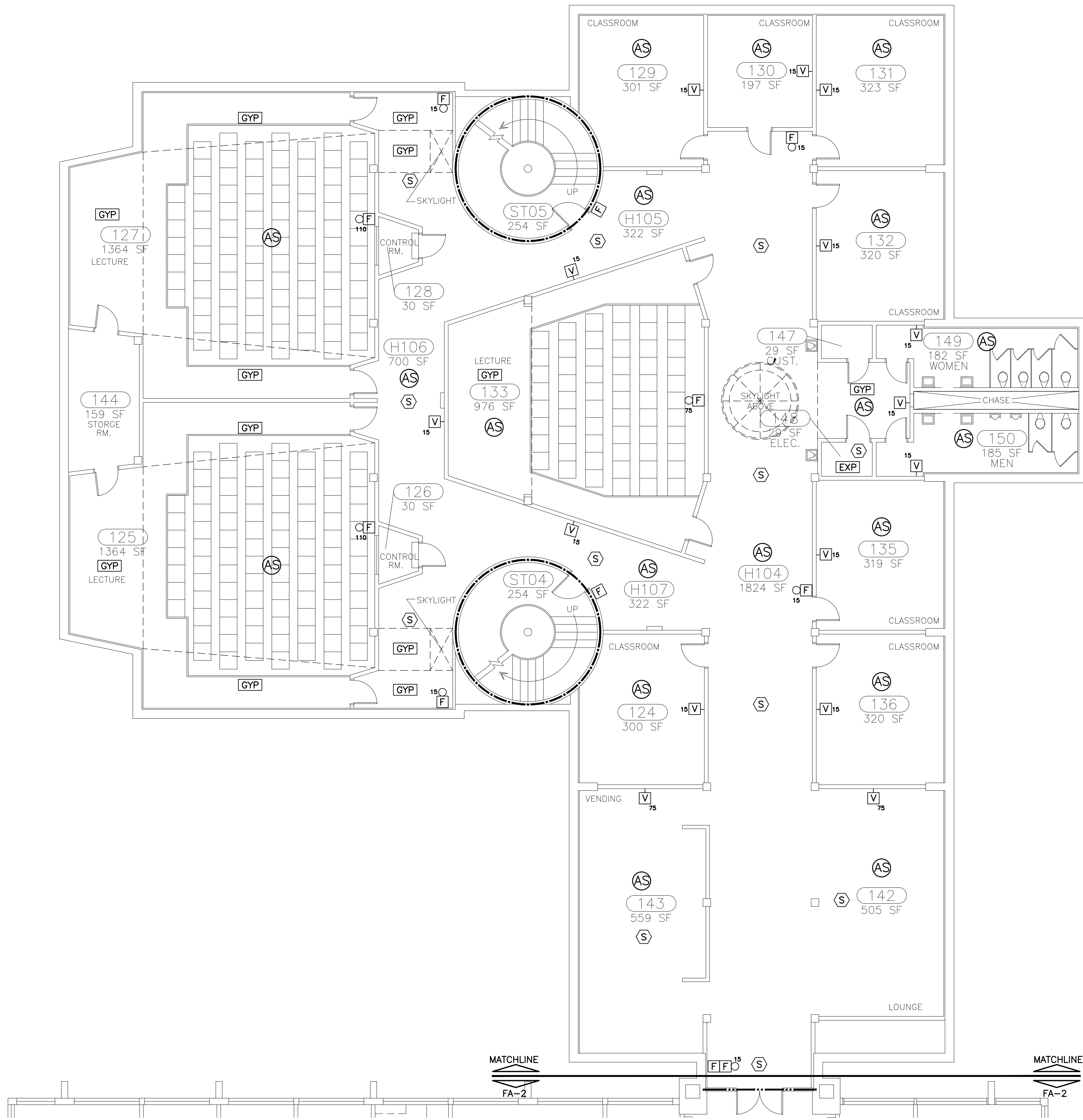


DATE	DESCRIPTION	DRAWN BY	CHECKED BY
16-13-12		CLB	MAJ/CLB

PROJECT TITLE: USC WILLIAMS-BRICE BUILDING
 FIRST FLOOR FIRE ALARM PLAN

UNIVERSITY of South Carolina

FA-2
 OF
 SHEET IN SET:
 13 OF 21



PLAN NOTES

1. THIS LEVEL IS PROVIDED WITH PARTIAL AUTOMATIC FIRE SPRINKLER PROTECTION.
2. ALL CEILINGS ARE LAY-IN (LIC) TYPE UNLESS NOTED OTHERWISE.

KEY NOTES (X)

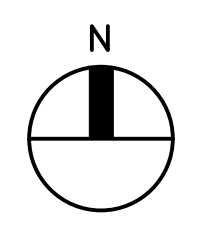
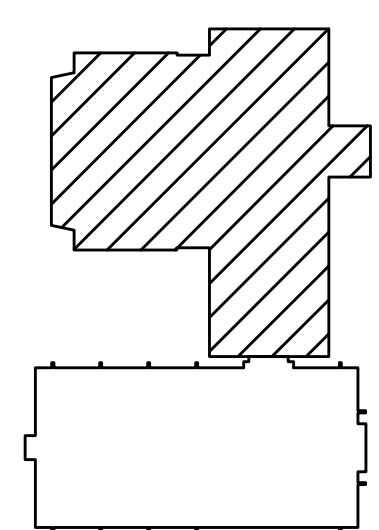
1. FIRE RESISTANCE RATING (FRR) OF WALL/FLOOR ASSEMBLIES ARE PROVIDED FOR INFORMATIONAL PURPOSES AND SURMISED TO BE AS INDICATED. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE FRR WALL/FLOOR ASSEMBLIES SHOWN. ALL PENETRATIONS OF WALL/FLOOR FRR ASSEMBLIES SHALL BE PROVIDED WITH A UL LISTED OR APPROVED FIRESTOPPING ASSEMBLY EQUAL TO THE FRR OF THE WALL/FLOOR.

PLAN LEGEND:

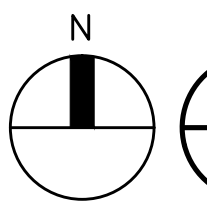
- GYP DRYWALL CEILING
 - EXP EXPOSED TO STRUCTURE ABOVE
 - LIC LAY-IN CEILING
 - AS AUTOMATIC FIRE SPRINKLER PROTECTION
- FIRE ALARM LEGEND:**
- F MANUAL FIRE ALARM BOX (DOUBLE ACTION)
 - S SMOKE DETECTOR DEVICE - PHOTOELECTRIC
 - F_{co} SPEAKER/STROBE APPLIANCE
 - V_{co} STROBE APPLIANCE (WALL MOUNTED)

SUB-SCRIPTS:

- co CANDELA RATING OF APPLIANCE

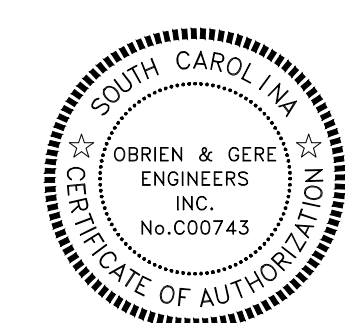


KEY PLAN
SCALE: NOT TO SCALE



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

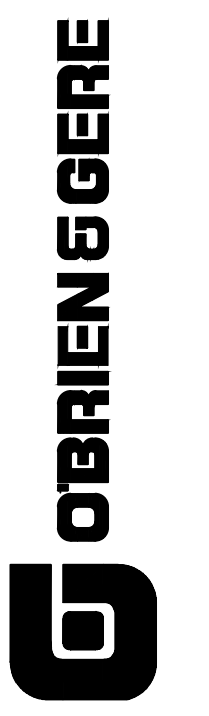
(1) RATED WALL LEGEND
- - - - - 1-HOUR FIRE RESISTANCE RATED BARRIER



DATE	DESCRIPTION	BY
16-13-12 <td></td> <td></td>		

PROJECT TITLE: USC WILLIAMS-BRICE BUILDING
FIRST FLOOR FIRE ALARM PLAN - AUDITORIUM

SHEET:
FA-3
OF
SHEET IN SET:
14 OF 21



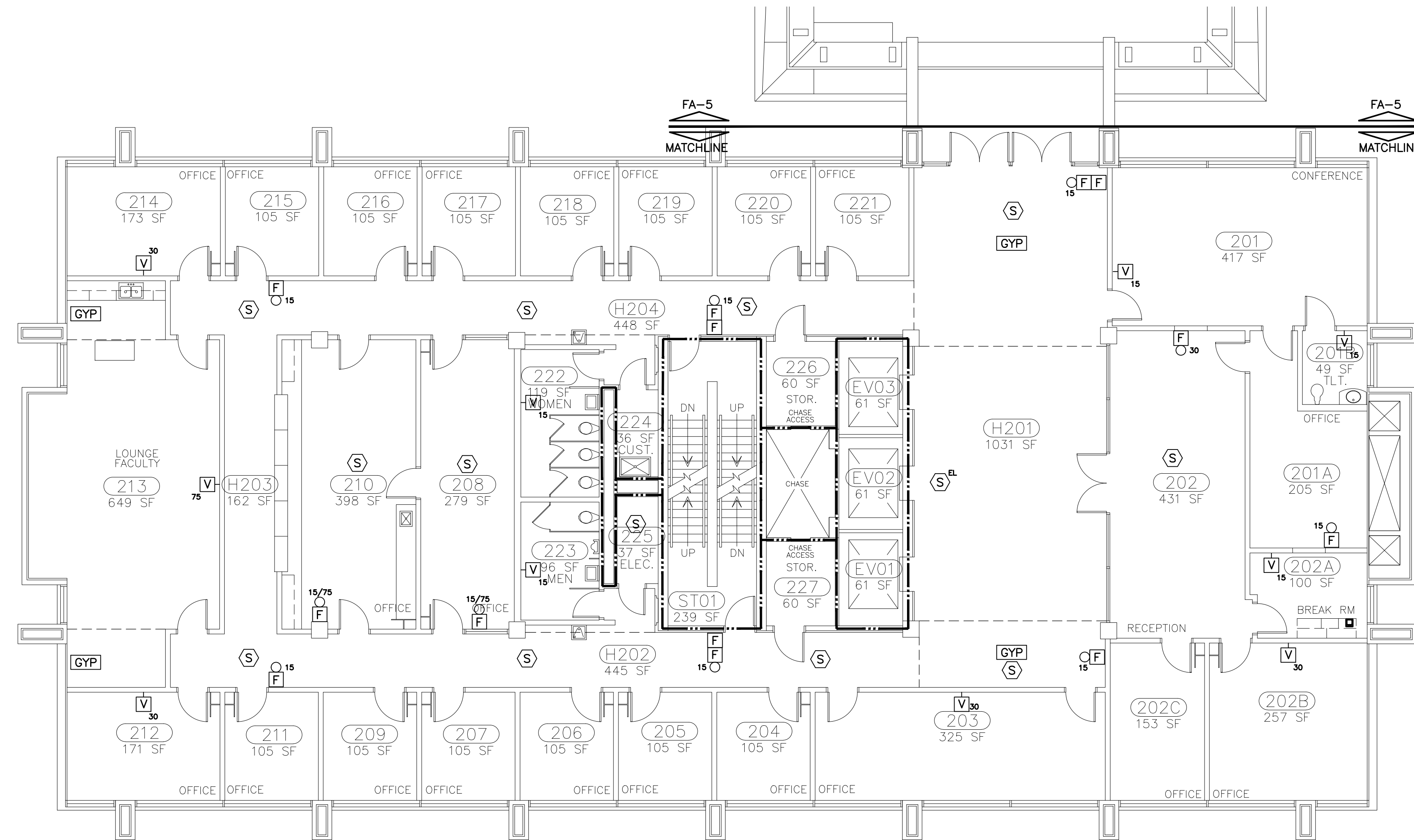
University of South Carolina

PLAN NOTES

1. THIS LEVEL IS NOTE PROVIDED WITH FIRE SPRINKLER PROTECTION.
2. ALL CEILINGS ARE LAY-IN (LIC) TYPE UNLESS NOTED OTHERWISE.

KEY NOTES (X)

1. 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.



PLAN LEGEND:

- GYP DRYWALL CEILING
- EXP EXPOSED TO STRUCTURE ABOVE
- LIC LAY-IN CEILING

FIRE ALARM LEGEND:

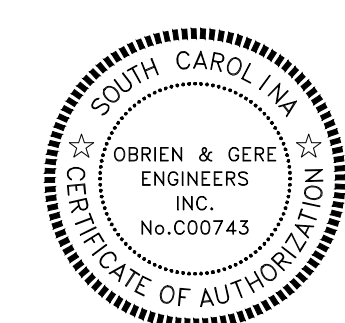
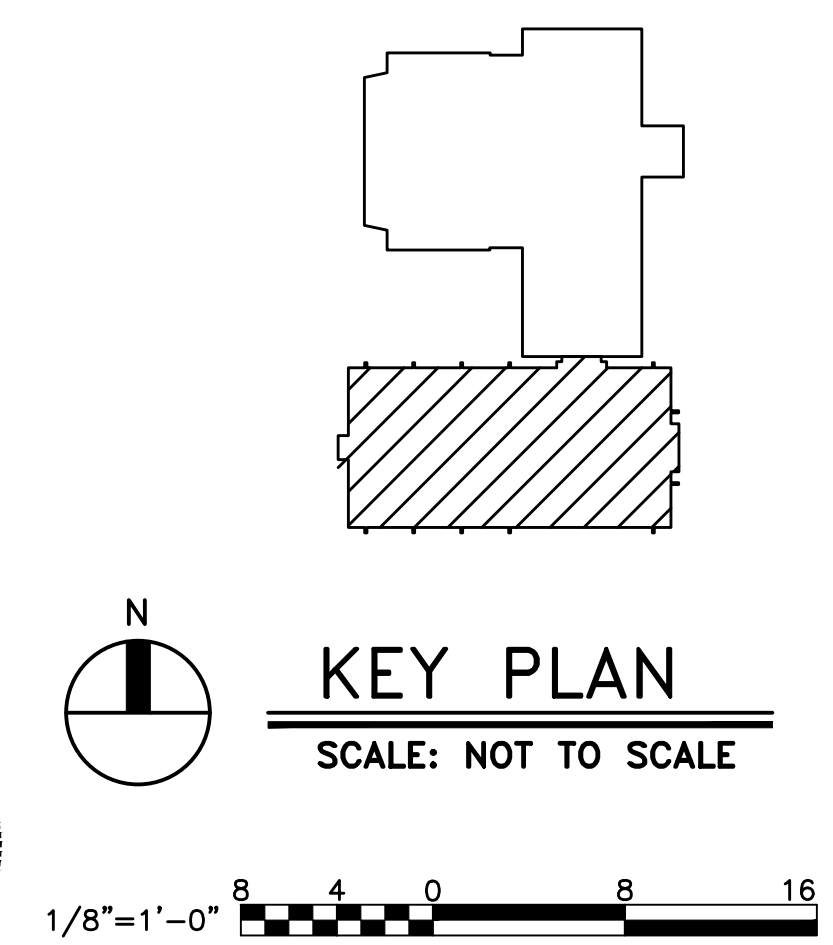
- F MANUAL FIRE ALARM BOX (DOUBLE ACTION)
- S SMOKE DETECTOR DEVICE - PHOTOELECTRIC
- F_{co} SPEAKER/STROBE APPLIANCE
- V_w STROBE APPLIANCE (WALL MOUNTED)
- V_{co} STROBE APPLIANCE (CEILING MOUNTED)

SUB-SCRIPTS:

- ELEVATOR CONTROL FUNCTION
- ⊙ CANDELA RATING OF APPLIANCE

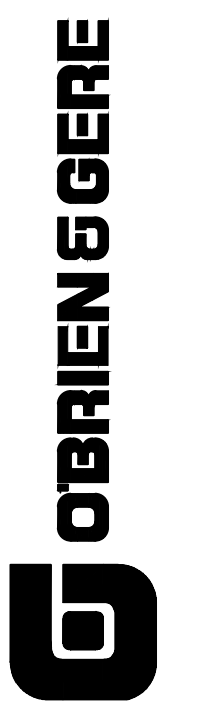
1 SECOND FLOOR FIRE ALARM PLAN - NURSES BUILDING
 FA-4 SCALE: 1/8" = 1' - 0"

RATED WALL LEGEND
 ———— 2-HOUR FIRE RESISTANCE RATED BARRIER



DATE	DESCRIPTION	DRAWN BY	CHECKED BY
16-13-12			

PROJECT TITLE: USC WILLIAMS-BRICE BUILDING SECOND FLOOR FIRE ALARM PLAN
SHEET: FA-4 OF SHEET IN SET: 15 OF 21
UNIVERSITY of South Carolina

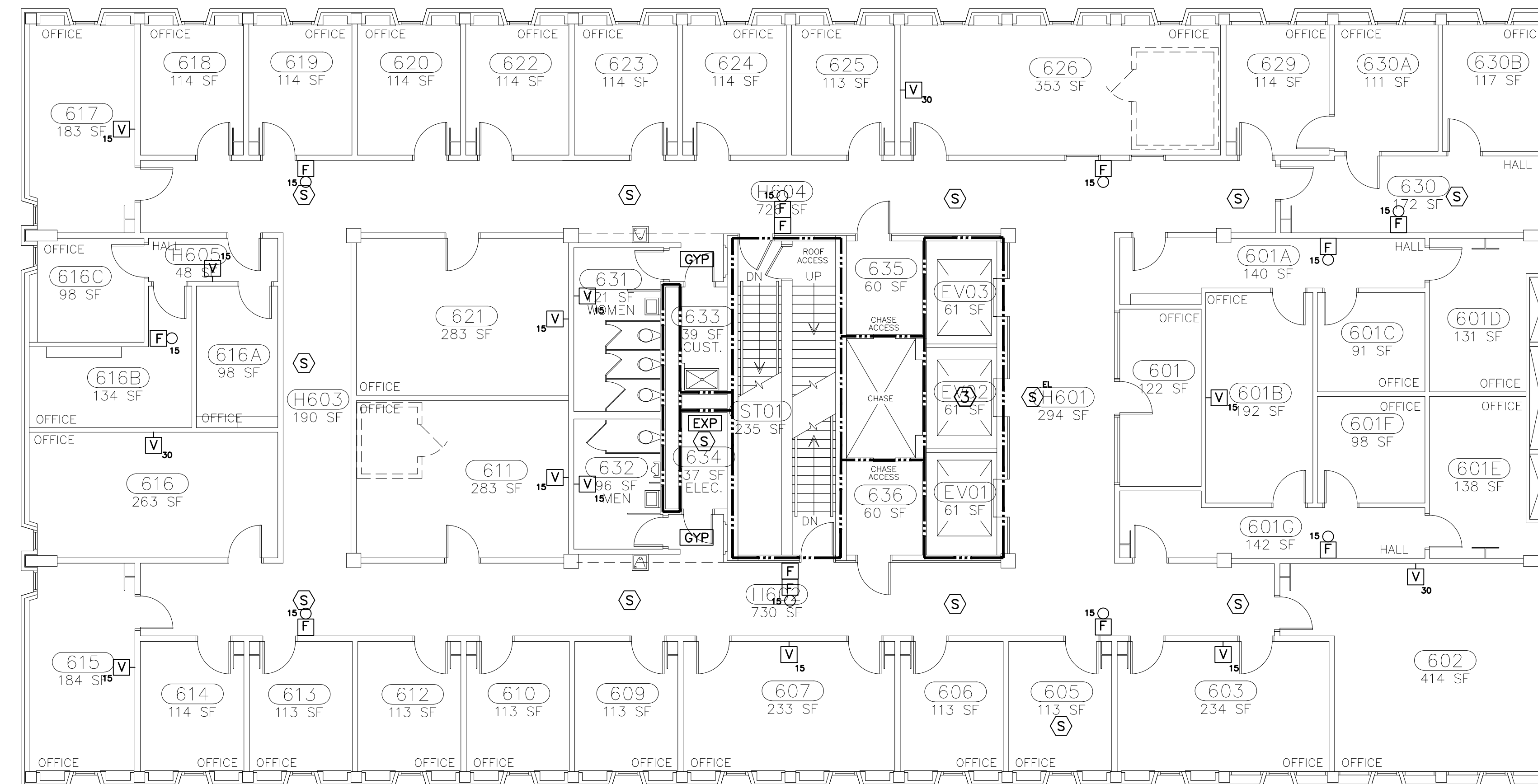


PLAN NOTES

1. THIS LEVEL IS NOT PROVIDED WITH FIRE SPRINKLER PROTECTION.
2. ALL CEILINGS ARE LAY-IN (LIC) TYPE UNLESS NOTED OTHERWISE.

KEY NOTES (X)

- 1 GRAPHIC ANNUNCIATOR PANEL (NON-FUNCTIONING).
- 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 TOP OF ELEVATOR HOISTWAY IS NOT PROVIDED WITH FIRE SPRINKLER PROTECTION. NO DETECTION IS REQUIRED AT THE TOP OF THE HOISTWAY PER NFPA 72.



PLAN LEGEND:

- [GYP] DRYWALL CEILING
- [EXP] EXPOSED TO STRUCTURE ABOVE
- [LIC] LAY-IN CEILING

FIRE ALARM LEGEND:

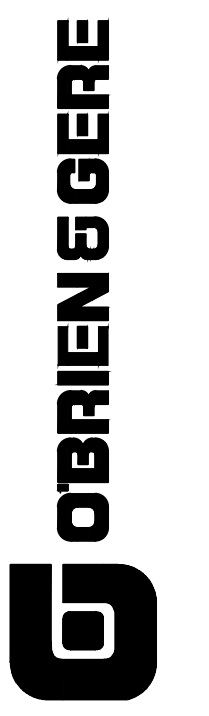
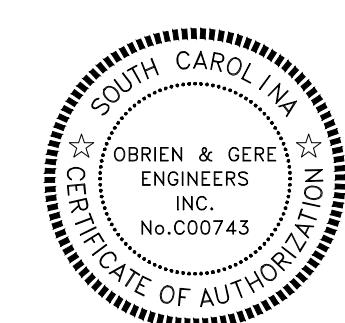
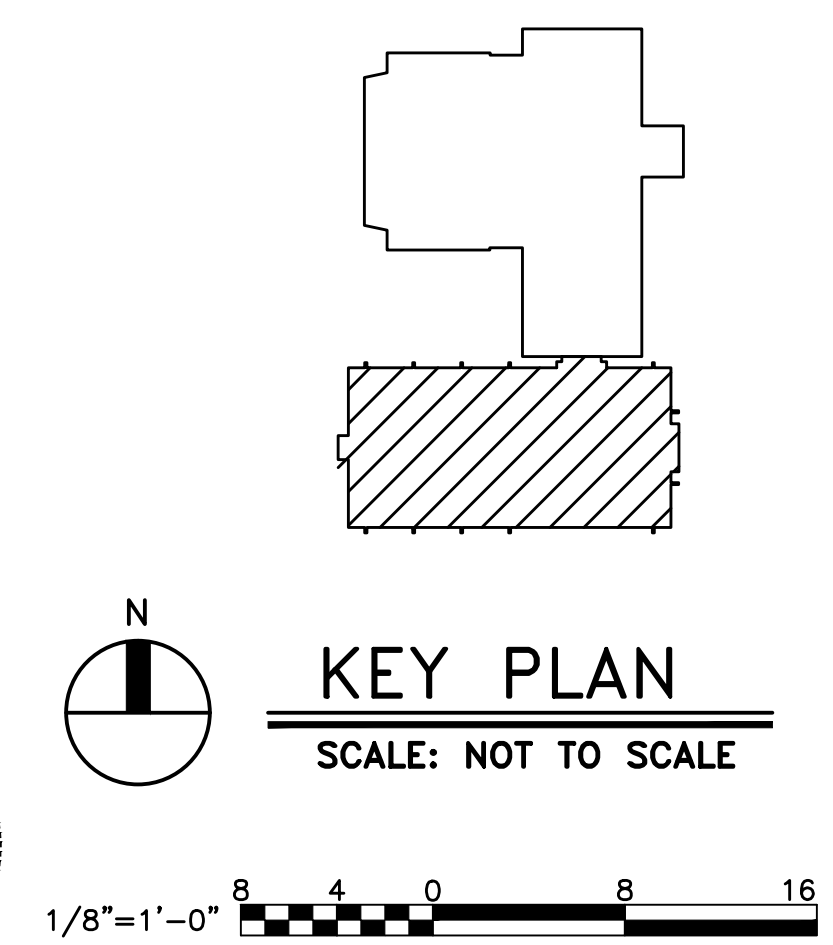
- [F] MANUAL FIRE ALARM BOX (DOUBLE ACTION)
- [S] SMOKE DETECTOR DEVICE - PHOTOELECTRIC
- [F] SPEAKER/STROBE APPLIANCE
- [V] STROBE APPLIANCE (WALL MOUNTED)

SUB-SCRIPTS:

- ELEVATOR CONTROL FUNCTION
- ⊙ CANDELA RATING OF APPLIANCE

SIXTH FLOOR FIRE ALARM PLAN - NURSES BUILDING
 SCALE: 1/8" = 1' - 0"

1 RATED WALL LEGEND
 - - - - - 2-HOUR FIRE RESISTANCE RATED BARRIER



DATE	DESCRIPTION	DRAWN BY	CHECKED BY
16-13-12			

PROJECT TITLE: USC WILLIAMS-BRICE BUILDING
 SIXTH FLOOR FIRE ALARM PLAN
 University of South Carolina
 FA-9
 OF
 SHEET IN SET:
 20 OF 21

FIRE ALARM LEGEND:

- F MANUAL FIRE ALARM BOX (DOUBLE ACTION)
- R RELAY MODULE
- H HEAT DETECTOR DEVICE (THERMAL DETECTOR)
- S SMOKE DETECTOR DEVICE - PHOTOELECTRIC
- D_R DUCT DETECTOR DEVICE - PHOTOELECTRIC
- F_{CO} SPEAKER/STROBE APPLIANCE
- V_{CO} STROBE APPLIANCE (WALL MOUNTED)
- _{CO} STROBE APPLIANCE (CEILING MOUNTED)
- FACU FIRE ALARM/MASS NOTIFICATION CONTROL UNIT
- RTU REMOTE TRANSMITTER UNIT
- FAA FIRE ALARM ANNUCIATOR UNIT (PANEL)
- TVSS TRANSIENT VOLTAGE SURGE SUPPRESSOR
- TS TAMPER SWITCH - FIRE SPRINKLER SYSTEM
- FS WATER FLOW SWITCH - FIRE SPRINKLER SYSTEM
- EOL END OF LINE RESISTOR
- MM MONITOR MODULE
- ⌋ ELECTRIC ALARM BELL WITH BACK BOX
- ⌋ MAGNETIC DOOR HOLDER

SUBSCRIPTS:

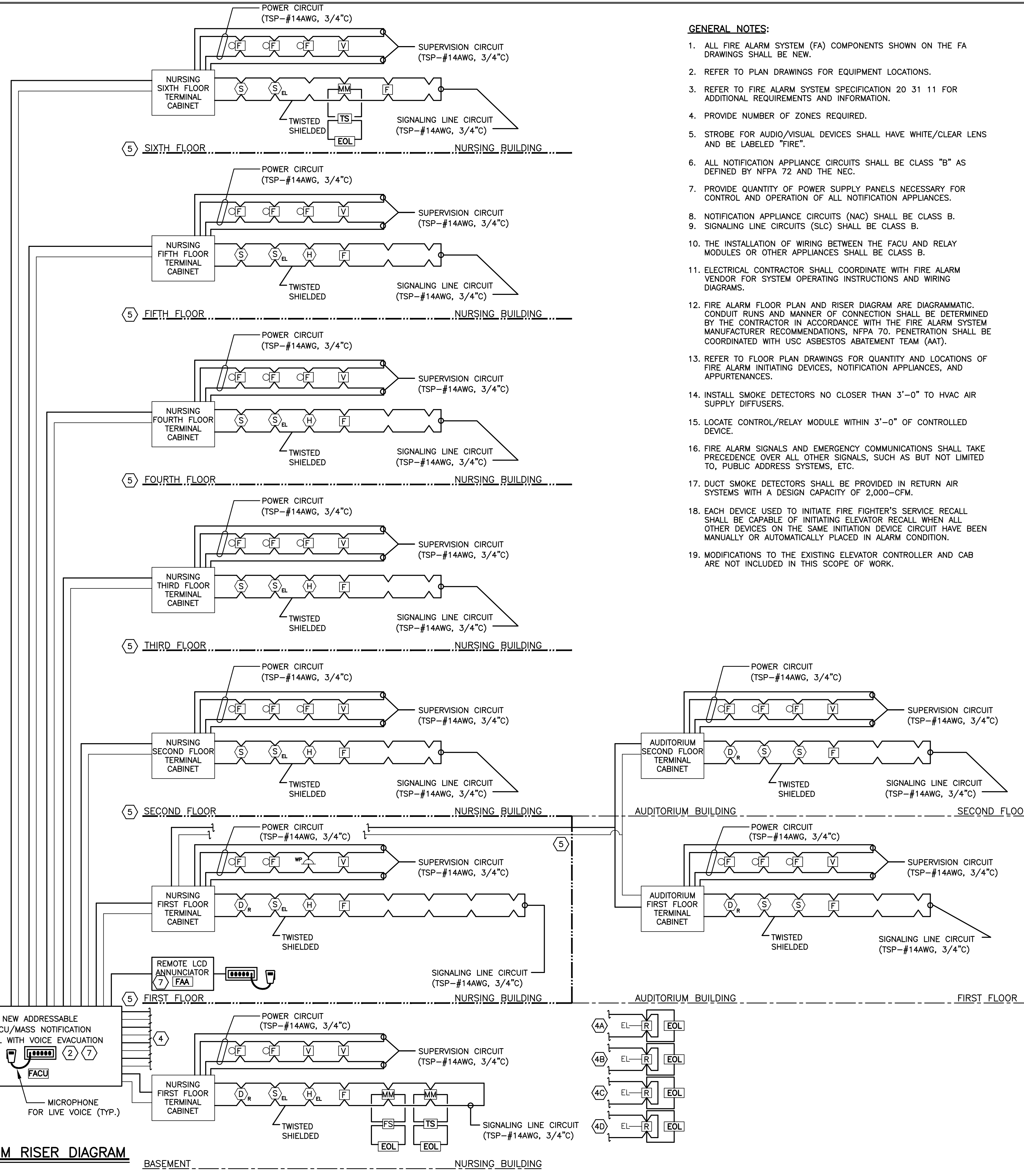
- B BATTERY OPERATED SMOKE ALARM
- EL ELEVATOR CONTROL FUNCTION
- WP WEATHER PROOF
- R RETURN
- CO CANDELA RATING OF APPLIANCE

BUILDING SYMBOLS:

- LIC LAY-IN CEILING
- GYP GYPSUM BOARD CEILING
- EXP EXPOSED CEILING
- AS AUTOMATIC FIRE SPRINKLER PROTECTION
- FIRE RATED WALL (1-HOUR)
- FIRE RATED WALL/FLOOR (2-HOUR)

KEY NOTES:

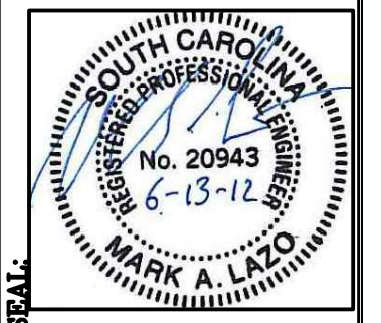
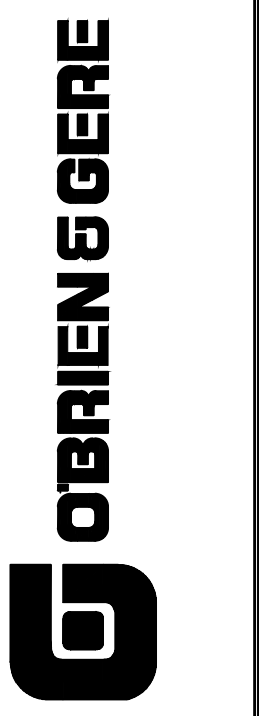
1. PROVIDE FACU WITH BUILT-IN DIALER WITH CONTACT ID.
2. PROVIDE FACU WITH SIGNAL INPUT MODULE COMPATIBLE WITH CAMPUS ATI SYSTEM.
3. CONNECT TO 120V POWER SOURCE FOR PANEL WITH EMERGENCY POWER SOURCE. CIRCUIT BREAKER SHALL BE RED AND LABELED 'FIRE ALARM CIRCUIT'. MECHANICALLY PROTECT CIRCUIT BREAKER IN THE 'ON' POSITION.
4. PROVIDE A MINIMUM OF FOUR (4) CONTROL/RELAY MODULES FOR ELEVATORS:
 - 4A. PHASE I RECALL - DESIGNATED LEVEL
 - 4B. PHASE I RECALL - ALTERNATE LEVEL
 - 4C. VISUAL WARNING SIGNAL IN CARS - FIRE FIGHTER'S ALERT
- 4D. SHUTDOWN (SHUNT TRIP) FUNCTION
5. 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, AND COORDINATE SUCH WITH THE USC, FIRE AUTHORITY, ELEVATOR CONTRACTOR, EQUIPMENT AND SITE CONDITIONS.
6. 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.
7. THE INTERFACE METHOD BETWEEN THE FACU AND THE ATI RTU IS THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. THE RTU IS INTENDED TO ALLOW FOR CAMPUS-WIDE EMERGENCY ANNOUNCEMENTS TO BE BROADCAST THROUGHOUT THE BUILDING USING THE VOICE EVACUATION SPEAKER SYSTEM OF THE BUILDINGS FIRE ALARM SYSTEM. THE ATI RTU PROGRAMMING WILL BE PERFORMED BY THE USC POLICE/SECURITY DEPARTMENT.
8. 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.



1 FIRE ALARM RISER DIAGRAM
FA-9 NOT TO SCALE

GENERAL NOTES:

1. ALL FIRE ALARM SYSTEM (FA) COMPONENTS SHOWN ON THE FA DRAWINGS SHALL BE NEW.
2. REFER TO PLAN DRAWINGS FOR EQUIPMENT LOCATIONS.
3. REFER TO FIRE ALARM SYSTEM SPECIFICATION 20 31 11 FOR ADDITIONAL REQUIREMENTS AND INFORMATION.
4. PROVIDE NUMBER OF ZONES REQUIRED.
5. STROBE FOR AUDIO/VISUAL DEVICES SHALL HAVE WHITE/CLEAR LENS AND BE LABELED "FIRE".
6. ALL NOTIFICATION APPLIANCE CIRCUITS SHALL BE CLASS "B" AS DEFINED BY NFPA 72 AND THE NEC.
7. PROVIDE QUANTITY OF POWER SUPPLY PANELS NECESSARY FOR CONTROL AND OPERATION OF ALL NOTIFICATION APPLIANCES.
8. NOTIFICATION APPLIANCE CIRCUITS (NAC) SHALL BE CLASS B.
9. SIGNALING LINE CIRCUITS (SLC) SHALL BE CLASS B.
10. THE INSTALLATION OF WIRING BETWEEN THE FACU AND RELAY MODULES OR OTHER APPLIANCES SHALL BE CLASS B.
11. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH FIRE ALARM VENDOR FOR SYSTEM OPERATING INSTRUCTIONS AND WIRING DIAGRAMS.
12. FIRE ALARM FLOOR PLAN AND RISER DIAGRAM ARE DIAGRAMMATIC. CONDUIT RUNS AND MANNER OF CONNECTION SHALL BE DETERMINED BY THE CONTRACTOR IN ACCORDANCE WITH THE FIRE ALARM SYSTEM MANUFACTURER RECOMMENDATIONS, NFPA 70. PENETRATION SHALL BE COORDINATED WITH USC ASBESTOS ABATEMENT TEAM (AAT).
13. REFER TO FLOOR PLAN DRAWINGS FOR QUANTITY AND LOCATIONS OF FIRE ALARM INITIATING DEVICES, NOTIFICATION APPLIANCES, AND APPURTENANCES.
14. INSTALL SMOKE DETECTORS NO CLOSER THAN 3'-0" TO HVAC AIR SUPPLY DIFFUSERS.
15. LOCATE CONTROL/RELAY MODULE WITHIN 3'-0" OF CONTROLLED DEVICE.
16. FIRE ALARM SIGNALS AND EMERGENCY COMMUNICATIONS SHALL TAKE PRECEDENCE OVER ALL OTHER SIGNALS, SUCH AS BUT NOT LIMITED TO, 'PUBLIC ADDRESS' SYSTEMS, ETC.
17. DUCT SMOKE DETECTORS SHALL BE PROVIDED IN RETURN AIR SYSTEMS WITH A DESIGN CAPACITY OF 2,000-CFM.
18. 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.
19. MODIFICATIONS TO THE EXISTING ELEVATOR CONTROLLER AND CAB ARE NOT INCLUDED IN THIS SCOPE OF WORK.



SCALE:	
CHECKED BY:	
DATE:	6-13-12
DRAWN BY:	
DATE:	
DESCRIPTION:	
BUILDING:	S6
REV:	

PROJECT TITLE: USC WILLIAMS-BRICE BUILDING
FIRE ALARM RISER DIAGRAM

University of South Carolina

