

UNIVERSITY OF SOUTH CAROLINA

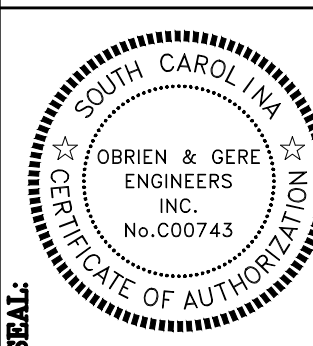
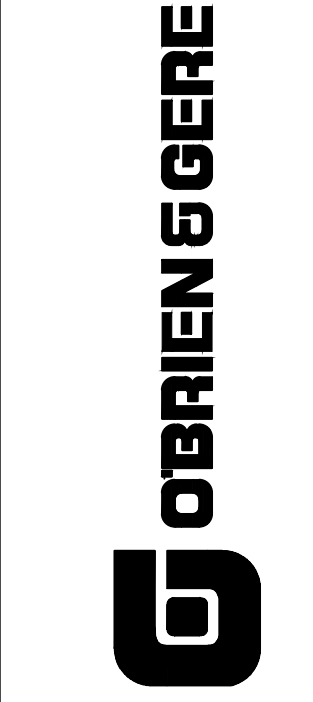


WARDLAW COLLEGE OF EDUCATION/ DRAYTON HALL FIRE ALARM REPLACEMENT

STATE PROJECT NUMBER: H27-I851 CP00367484

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PROJECT TITLE: WARDLAW/DRAYTON HALL BUILDINGS
COVER SHEET & DRAWING INDEX
University of South Carolina

John M. Kennedy
11-20-2014

SHEET:
G-1
OF
SHEET IN SET:
1 OF 11

GENERAL FIRE ALARM NOTES:

- DEMOLISH EXISTING FIRE ALARM AND DETECTION SYSTEM AS SHOWN. ALL EXISTING WIRING SHALL BE REMOVED.
- 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.
- THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR INTENDED USE.
- THE NEW FIRE ALARM SYSTEM SHALL BE IN FULL ACCORDANCE WITH THE REQUIREMENTS AND APPENDIX OF THE FOLLOWING:
 - NFPA 70, 2011 EDITION
 - NFPA 72, 2010 EDITION
 - INTERNATIONAL MECHANICAL CODE, (IMC) 2012 EDITION
 - INTERNATIONAL BUILDING CODE (IBC), 2012 EDITION
 - INTERNATIONAL EXISTING BUILDING CODE (IEBC), 2012 EDITION
 - STATE AND LOCAL AUTHORITIES
- EXISTING SYSTEM SHALL BE REMOVED IN ITS ENTIRETY IN ACCORDANCE WITH NFPA 72 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.
- 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, CODE COMPLIANT SYSTEM DESIGN, INSTALLATION, TESTING, COMMISSIONING AND APPROVAL REQUIREMENTS.
- 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.
- THE EXISTING ORIGINAL FACP SHALL BE REMOVED AND RETURNED TO EHS FIRE SAFETY, USC FIRE MARSHALS OFFICE.
- 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.
- 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.
- CONTRACTOR SHALL PROVIDE AUDIBILITY AND INTELLIGIBILITY PER NFPA72 REQUIREMENTS, IN ACCORDANCE WITH NFPA 70 AND NFPA 72, AND USC FIRE MARSHAL
- FIRE ALARM SIGNALS AND EMERGENCY COMMUNICATIONS SHALL TAKE PRECEDENCE OVER ALL OTHER SIGNALS, SUCH AS BUT NOT LIMITED TO PUBLIC ADDRESS SYSTEMS.
- ALL NOTIFICATION APPLIANCES (NAC) SHALL PERFORM TO CLASS "B" AS DEFINED BY NFPA 70 AND NFPA 72 REQUIREMENTS.
- ALL SIGNALING LINE CIRCUITS (SLC) SHALL PERFORM TO CLASS "B" STYLE 4 AS DEFINED BY NFPA 70 AND NFPA 72 REQUIREMENTS.
- ALL INDICATING DEVICE CIRCUITS (IDC) SHALL PERFORM TO CLASS "B" AS DEFINED BY NFPA 70 AND NFPA 72 REQUIREMENTS.
- 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.
- 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".
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH FIRE ALARM VENDOR FOR SYSTEM OPERATING INSTRUCTIONS AND WIRING DIAGRAMS.
- ALL FLOOR AND WALL PENETRATIONS SHALL BE DRILLED, COORDINATED WITH USC ASBESTOS ABATEMENT TEAM (AAT), AND SHALL BE COORDINATED WITH STRUCTURAL SYSTEMS.
- 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.
- WALL MOUNTED FIRE ALARM DEVICES IN UNFINISHED AREAS MAY BE SURFACE MOUNTED, THE CONDUIT MAY BE INSTALLED EXPOSED ON WALLS AND ON CEILINGS.
- PROVIDE INDICATING LAMP FOR ALL CONCEALED DETECTORS.
- FIRE ALARM MANUAL PULL STATIONS AT DOOR OPENINGS SHALL BE WITHIN 5'-0" HORIZONTALLY OF THE DOOR OPENING.

GENERAL FIRE ALARM NOTES (CONTINUED):

- DUCT SMOKE SENSORS SHALL BE IN ACCORDANCE WITH NFPA 72, 90A, AND AS INDICATED ON THE CONTRACT DOCUMENTS.
- 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.
- PROVIDE TRANSIENT VOLT SURGE SUPPRESSION DEVICE WHERE CIRCUITS PENETRATE THE BUILDING ENVELOPE AND, FIRE ALARM EQUIPMENT SUPPLIED FROM THE BUILDING ELECTRICAL SYSTEM, (I.E. DOOR HOLDERS, NAC BOOSTER PANELS, ETC.), IN ACCORDANCE WITH NFPA 70 AND NFPA 72 REQUIREMENTS.
- PROVIDE ADDRESSABLE MONITOR MODULES FOR NON-ADDRESSABLE DEVICES. MOUNTING HEIGHT SHALL BE IN ACCORDANCE WITH ADA COMPLIANCE.
- STROBE FOR AUDIO/VISUAL DEVICES SHALL HAVE WHITE/CLEAR LENS AND BE LABELED "FIRE".
- DUCT DETECTORS SHALL BE PROVIDED IN RETURN AIR SYSTEMS WITH A DESIGN CAPACITY GREATER THAN 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.
- ALL DUCT DETECTORS (SUPPLY, RETURN AND PLENUM TYPES) SHALL BE PROVIDED WITH REMOTE STATUS INDICATION.
- INSTALL SMOKE DETECTORS NO CLOSER THAN 3'-0" TO HVAC AIR SUPPLY DIFFUSERS.
- ASBESTOS HAS BEEN IDENTIFIED IN CERTAIN LOCATIONS IN EACH 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.
- 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.
- 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.
- 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.
- SYSTEM IMPAIRMENTS AND OUT-OF-SERVICE EVENTS SHALL BE IN CONDUCTED IN ACCORDANCE WITH NFPA 72, IFC AND USC EHS FIRE SAFETY REQUIREMENTS.
- ALL NIGHT WORK SHALL BE COORDINATED WITH THE USC PROJECT MANAGER.
- MODIFICATIONS TO THE EXISTING ELEVATOR CONTROLLER AND CABS ARE NOT INCLUDED IN THIS SCOPE OF WORK.
- REFER TO FIRE ALARM SYSTEM SPECIFICATION 20 31 11 FOR ADDITIONAL REQUIREMENTS AND INFORMATION.
- FIRE RESISTANCE RATING (FRR) OF WALL/FLOOR ASSEMBLIES ARE PROVIDED FOR INFORMATIONAL PURPOSES AND SURMISED TO BE AS INDICATED. ADDITIONAL FRR WALL ASSEMBLIES MAY EXIST (SUCH AS CORRIDOR WALLS, ETC.). IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATED AND FIELD VERIFY ALL FRR WALL/FLOOR ASSEMBLIES. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE FRR WALL/FLOOR ASSEMBLIES SHOWN, AND/OR FIELD LOCATED/VERIFIED. ALL PENETRATIONS OF FRR ASSEMBLIES SHALL BE PROVIDED WITH A UL LISTED OR APPROVED 2-HOUR FIRE STOPPING MATERIAL.
- ALL FIRE ALARM PANELS AND EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH NFPA TO ARTICLE 250 AND 800 WITH A MAXIMUM OF 25 OHMS RESISTANCE.
- PROVIDE ELECTRONIC RECORDS AND STORE ADJACENT TO FIRE ALARM CONTROL PANEL UNIT THAT INCLUDES A COPY OF THE SITE SPECIFIC PROGRAMMING SOFTWARE AND AN I/O MATRIX, PER NFPA 72.23.2.2.1 ANY SPECIAL EQUIPMENT REQUIRED TO OBTAIN THE SOFTWARE OR I/O MATRIX, SUCH AS A DONGLE, IS REQUIRED TO BE STORED AT THE SAME LOCATION.
- NEW FACU SHALL BE CAPABLE FOR EXPANSION TO INCLUDE FUTURE BUILDING IMPROVEMENTS, SUCH AS, BUT NOT LIMITED TO; RATE OF RISE DETECTORS; SMOKE-PROTECTED ASSEMBLY SEATING; EMERGENCY VENTILATION INTERFERENCE FOR STAGE; PROSCENIUM OPENING INTERFACING; TAMPER SWITCHES; WATER FLOW SWITCHES; PRESSURE SWITCHES; ETC.
- ALL ELECTRICAL AND COMMUNICATION ROOMS SHALL BE PROVIDED WITH SMOKE DETECTION INSTALLED IN ACCORDANCE WITH NFPA 72 REQUIREMENTS.

FIRE ALARM LEGEND:

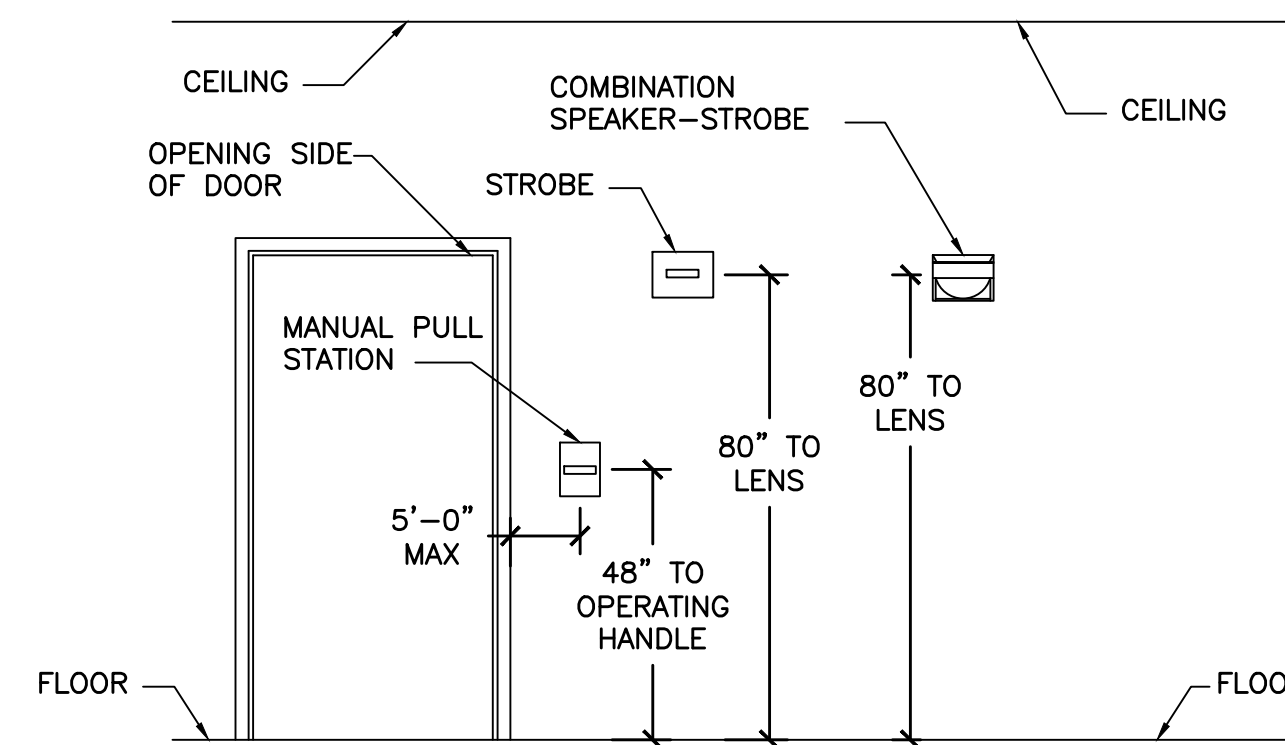
- F** MANUAL FIRE ALARM BOX (DOUBLE ACTION)
- R** RELAY MODULE
- H** HEAT DETECTOR DEVICE (THERMAL DETECTOR)
- S** SMOKE DETECTOR DEVICE - PHOTOELECTRIC
- (S)** SMOKE DETECTOR DEVICE - PHOTOELECTRIC (WALL MOUNTED)
- (D)_{N/S}** DUCT DETECTOR DEVICE - PHOTOELECTRIC (SUPPLY AND/OR RETURN)
- (F)_{CO}** SPEAKER/STROBE APPLIANCE
- (V)_{CO}** STROBE APPLIANCE (WALL MOUNTED)
- (S)_{CO}** STROBE APPLIANCE (CEILING MOUNTED)
- (H)** HORN TYPE NOTIFICATION APPLIANCE (WALL MOUNTED)
- (H)** HORN TYPE NOTIFICATION APPLIANCE (CEILING MOUNTED)
- (B)** BELL TYPE NOTIFICATION APPLIANCE
- H** DOOR HOLD
- FACP** FIRE ALARM/MASS NOTIFICATION CONTROL PANEL
- DACT** DIGITAL ALARM COMMUNICATIONS TRANSMITTER
- RTU** REMOTE TRANSMITTER UNIT
- RTS** REMOTE TEST STATION WITH LED AND KEY SWITCH
- FAA** FIRE ALARM ANNUNCIATOR UNIT (PANEL)
- TVSS** TRANSIENT VOLTAGE SURGE SUPPRESSOR
- SCP** SUB-PANEL
- NAC** NOTIFICATION APPLIANCE CIRCUIT UNIT (PANEL)
- TS** TAMPER SWITCH - FIRE SPRINKLER SYSTEM
- FS** WATER FLOW SWITCH - FIRE SPRINKLER SYSTEM
- EOL** END OF LINE RESISTOR
- MM** MONITOR MODULE
- ()** ALARM BELL WITH BACK BOX

SUBSCRIPTS:

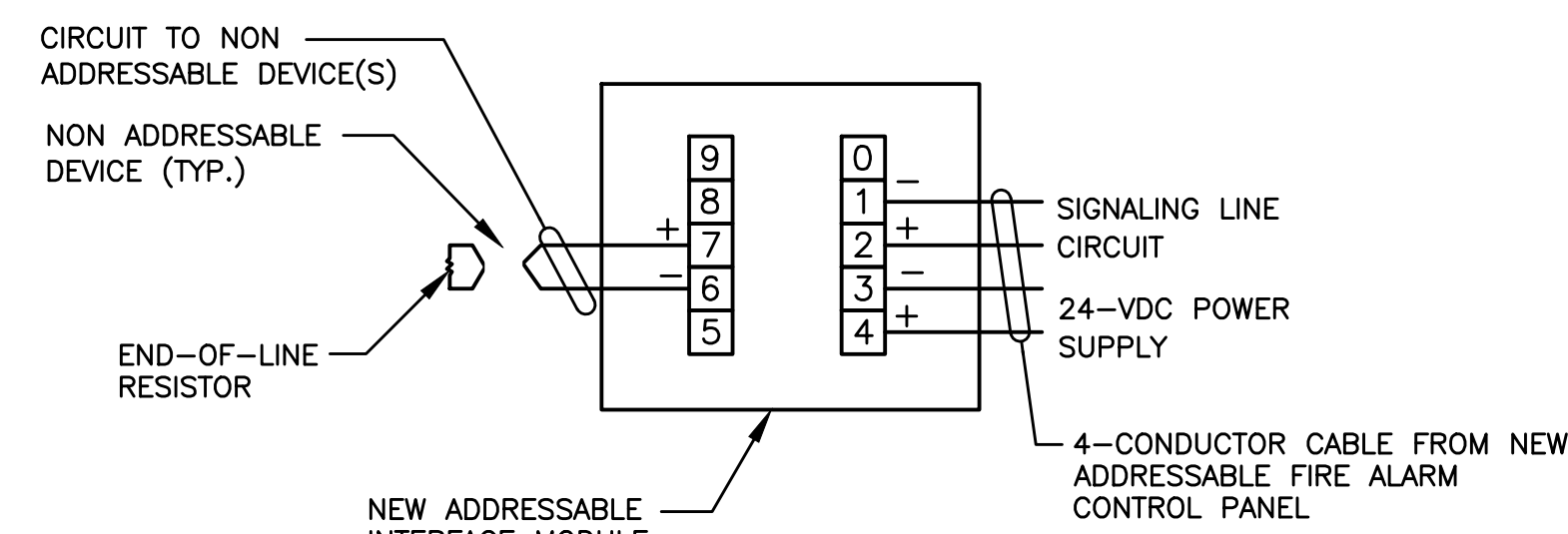
- CO** CANDELA RATING OF APPLIANCE
- EL** ELEVATOR CONTROL FUNCTION
- R** RETURN
- S** SUPPLY
- SS** SINGLE STATION - BATTERY OPERATED
- WP** WEATHER PROOF

BUILDING SYMBOLS:

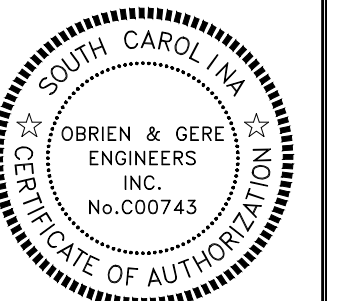
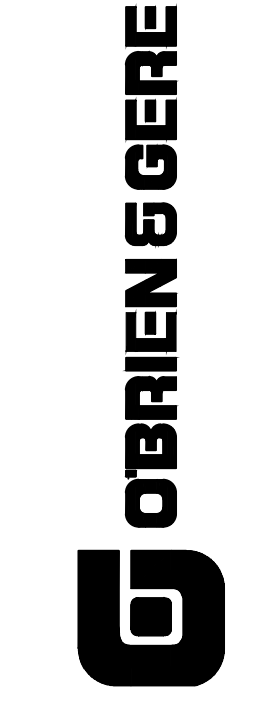
- LIC** LAY-IN CEILING
- GYP** GYPSUM BOARD CEILING
- EXP** EXPOSED CEILING
- LPA** LATH AND PLASTER CEILING
- POP** GYPSUM BOARD CEILING WITH TEXTURED FINISH
- (AS)** AUTOMATIC FIRE SPRINKLER PROTECTION
- (0'-0")** CEILING HEIGHT
- - - - -** FIRE RATED WALL (2-HOUR)



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



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

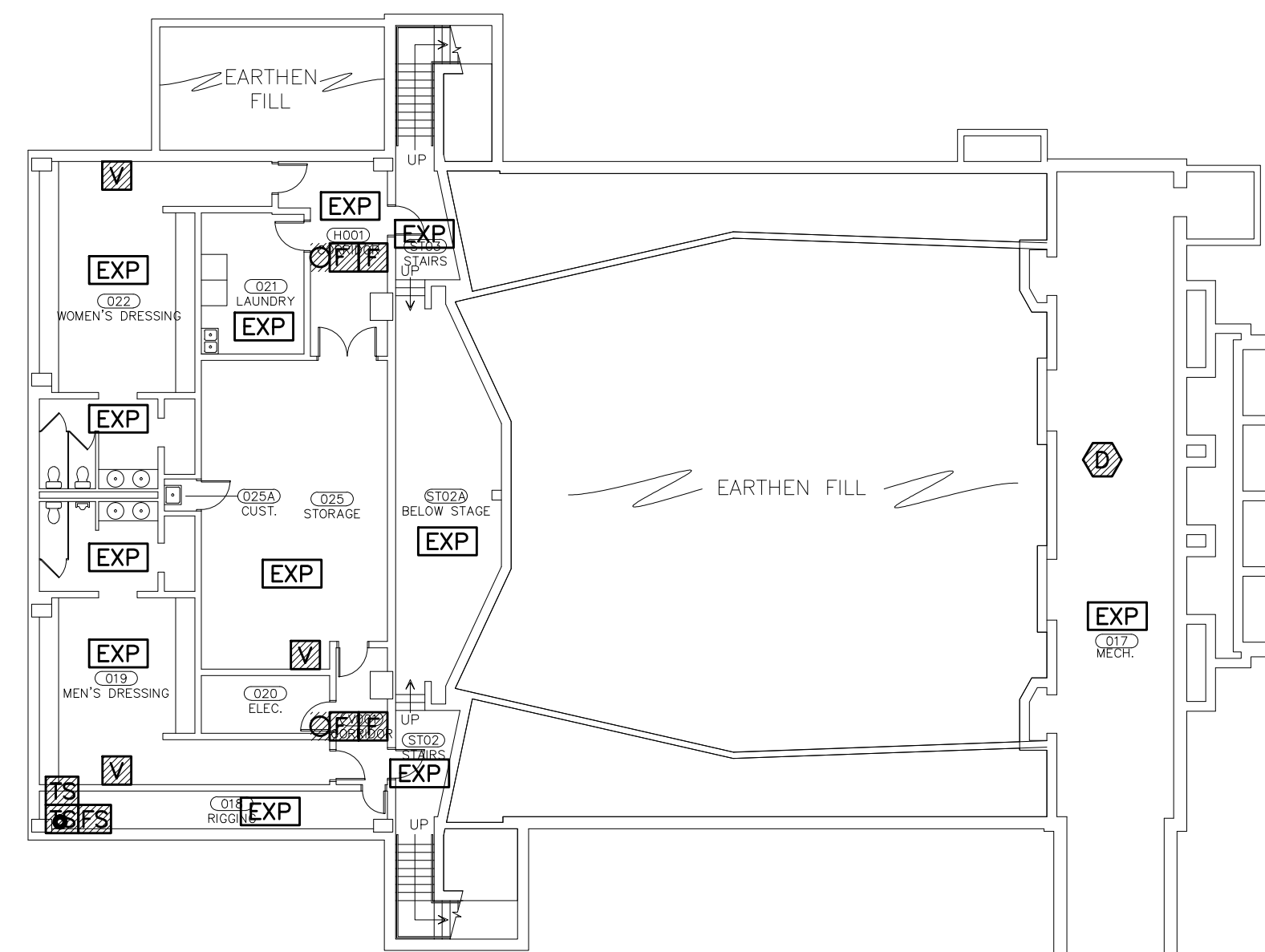


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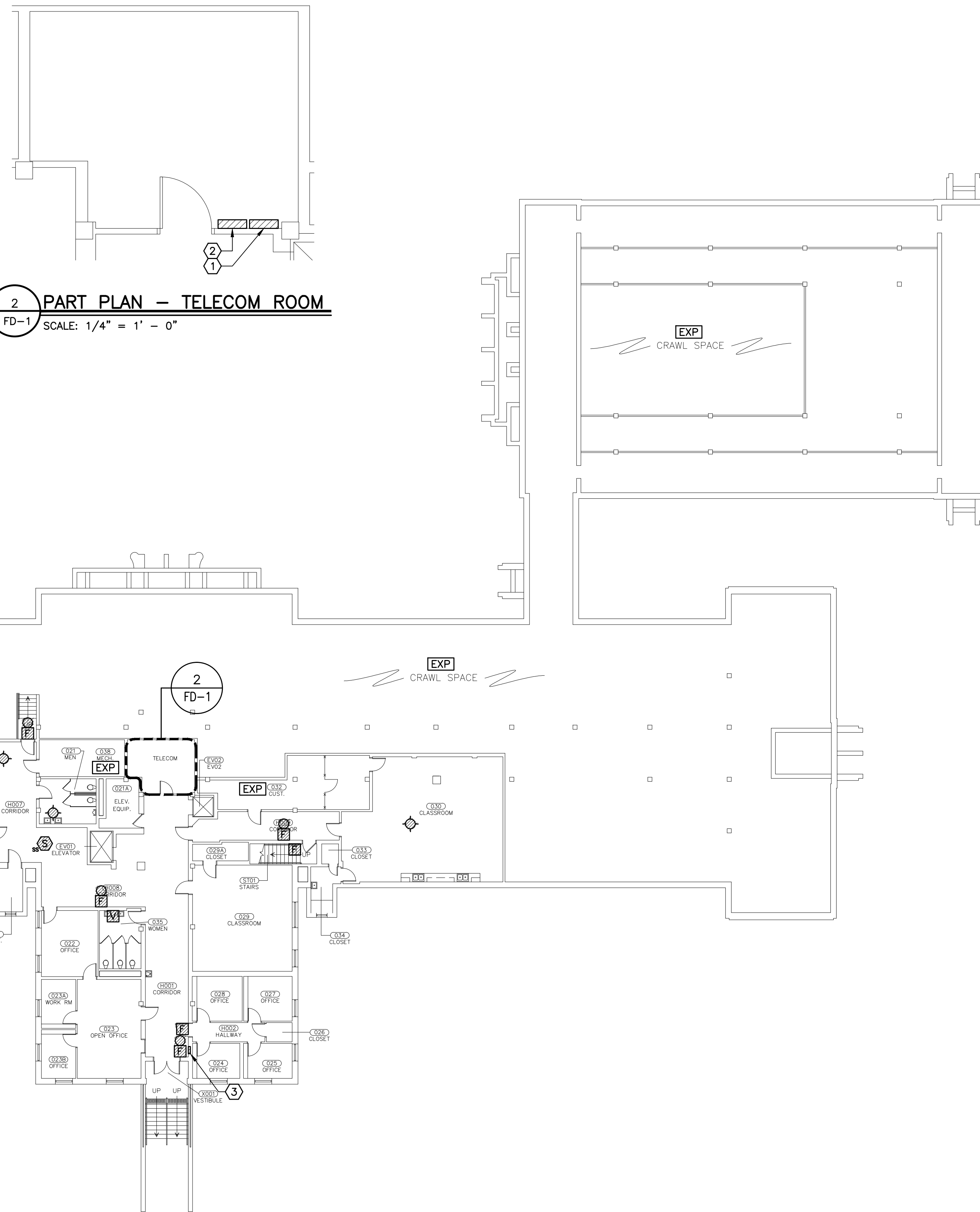
PROJECT TITLE: WARDLAW/DRAYTON HALL BUILDINGS
FIRE ALARM LEGEND, NOTES & DETAILS

University of South Carolina

Handwritten signature and date: 11-20-2014



2 PART PLAN - TELECOM ROOM
FD-1 SCALE: 1/4" = 1' - 0"



1 BASEMENT FIRE ALARM DEMOLITION PLAN
FD-1 SCALE: 1/16" = 1' - 0"

GENERAL NOTES

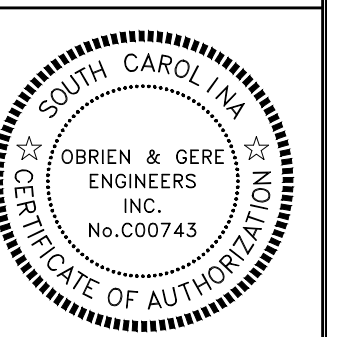
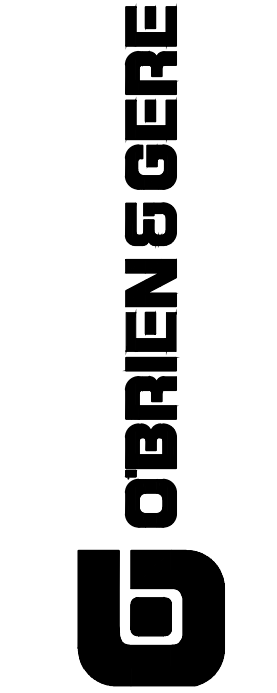
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KEY NOTES (#)

1. SIMPLEX FIRE ALARM SYSTEMS FIRE ALARM CONTROL PANEL TO BE REMOVED AND RETURNED TO EHS FIRE SAFETY, USC FIRE MARSHAL'S OFFICE.
2. ADEMCO 5110XM 5 ZONE (DACT) FIRE ALARM COMMUNICATOR TO BE REMOVED AND RETURNED TO EHS FIRE SAFETY, USC FIRE MARSHAL'S OFFICE.
3. FIRE ALARM ANNUNCIATOR PANEL TO BE REMOVED.

ASBESTOS HAZARDS MATERIALS NOTES:

1. WARDLAW COLLEGE OF EDUCATION:
 - A. JOINT COMPOUND TESTS POSITIVE FOR ASBESTOS CONTAINING MATERIALS.
 - B. FIRE DOORS TEST POSITIVE FOR ASBESTOS CONTAINING MATERIALS IN THIS BUILDING.
 - C. THERE IS ASBESTOS BLACK MASTIC ON THE HVAC DUCTS IN THE ENTIRE BUILDING AS WELL AS ON THE WATER LINES INSULATION ABOVE THE CEILING IN THE BUILDING.
 - D. THE FLOOR TILES IN THE BUILDING (9x9), AS WELL AS THE BLACK MASTIC THAT HOLDS IT TO THE CONCRETE TESTS POSITIVE FOR ASBESTOS CONTAINING MATERIALS.
 - E. THERE IS ASBESTOS TSI IN THE BASEMENT MECHANICAL ROOM STEAM PIPE AND HOT WATER PIPE AIR CELL IN THE CRAWL SPACE. IF CONTRACTOR HAS TO DISTURB THIS MATERIAL CALL TY RUSSELL WITH USC BEFORE DISTURBANCE OCCURS.

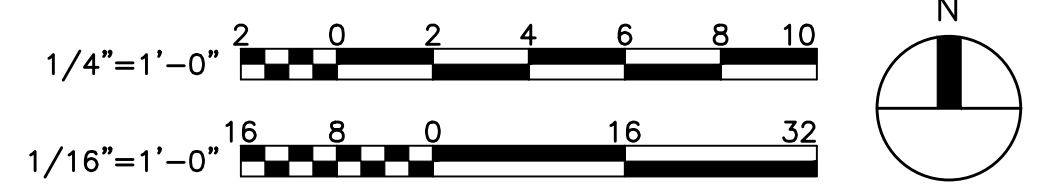


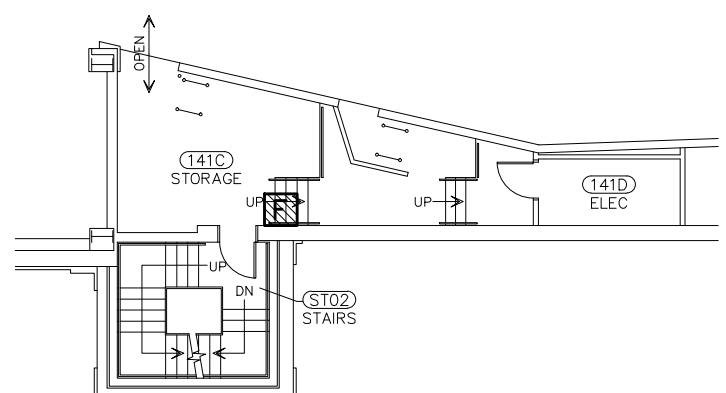
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PROJECT TITLE: WARDLAW/DRAYTON HALL BUILDINGS
BASEMENT FIRE ALARM DEMOLITION PLAN

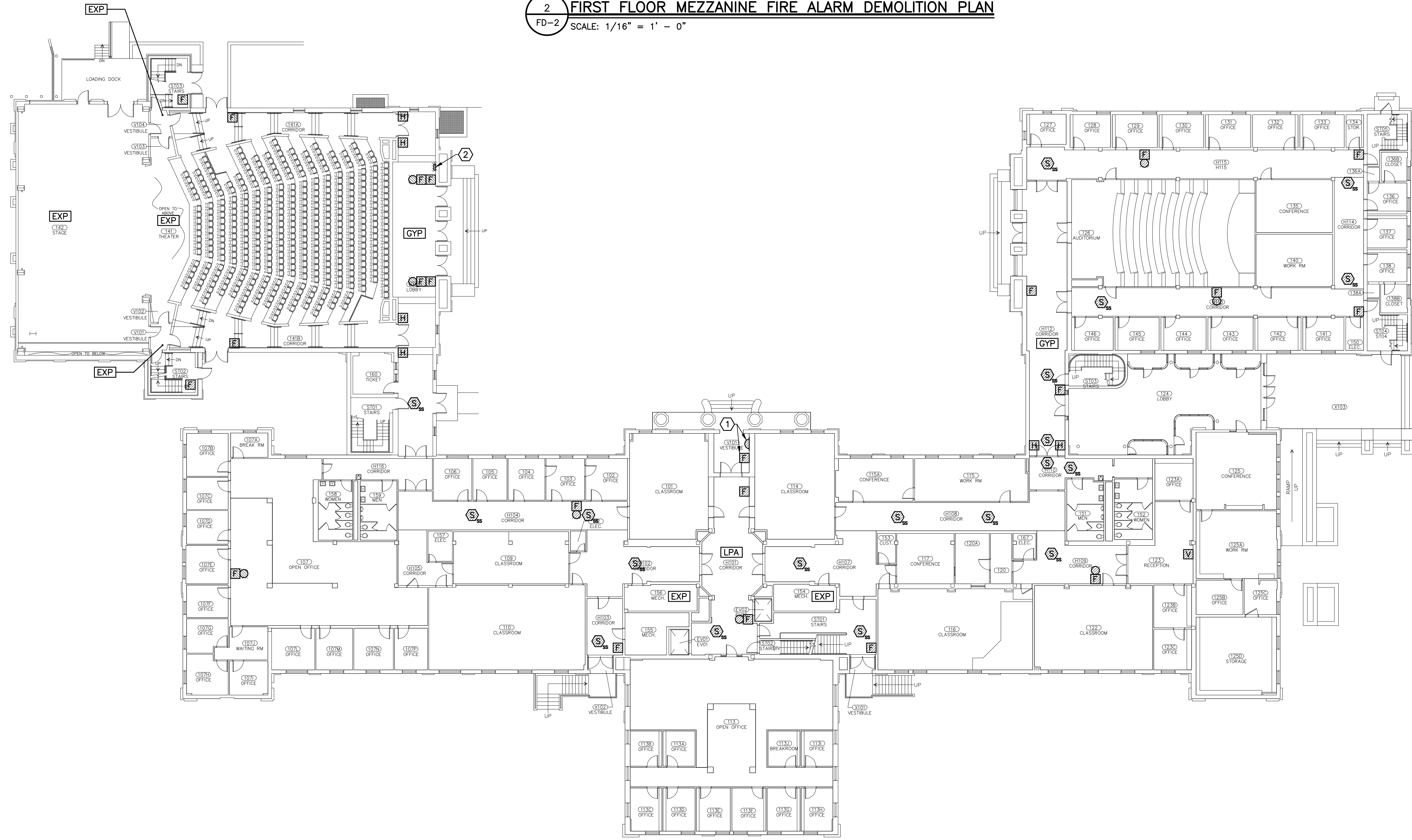
SHEET: FD-1
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SHEET IN SET:
3 OF 11

John M. Kennedy
11-20-2014





2 FIRST FLOOR MEZZANINE FIRE ALARM DEMOLITION PLAN
FD-2 SCALE: 1/16" = 1' - 0"



1 FIRST FLOOR FIRE ALARM DEMOLITION PLAN
FD-2 SCALE: 1/16" = 1' - 0"

GENERAL NOTES

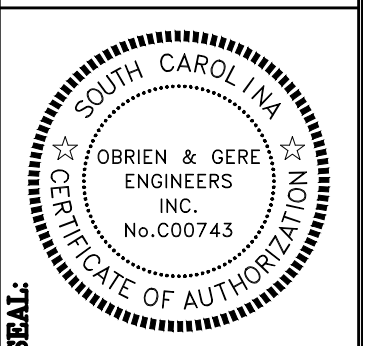
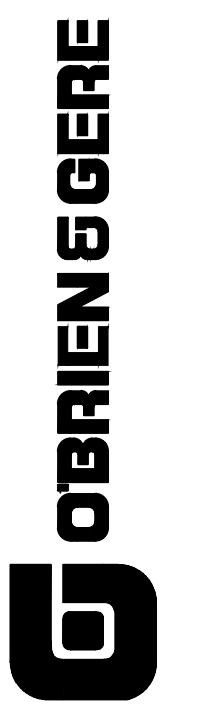
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KEY NOTES

1. PULL BOX AND ALARM BELL TO BE REMOVED AND RETURNED TO EHS FIRE SAFETY, USC FIRE MARSHAL'S OFFICE.
2. FIRE ALARM ANNUNCIATOR PANEL TO BE REMOVED.

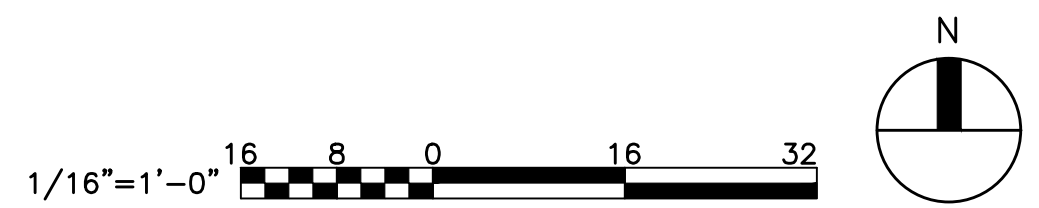
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 - B. FIRE DOORS TEST POSITIVE FOR ASBESTOS CONTAINING MATERIALS IN THIS BUILDING.
 - C. THERE IS ASBESTOS BLACK MASTIC ON THE HVAC DUCTS IN THE ENTIRE BUILDING AS WELL AS ON THE WATER LINES INSULATION ABOVE THE CEILING IN THE BUILDING.
 - D. THE FLOOR TILES IN THE BUILDING (9x9), AS WELL AS THE BLACK MASTIC THAT HOLDS IT TO THE CONCRETE TESTS POSITIVE FOR ASBESTOS CONTAINING MATERIALS.

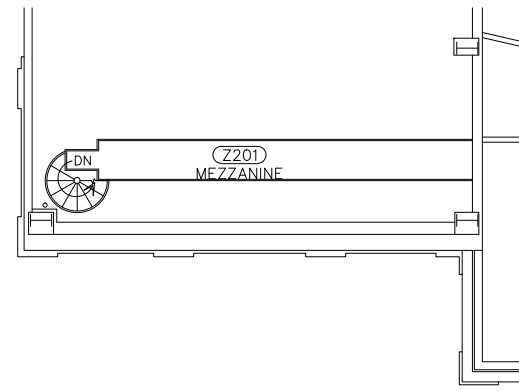


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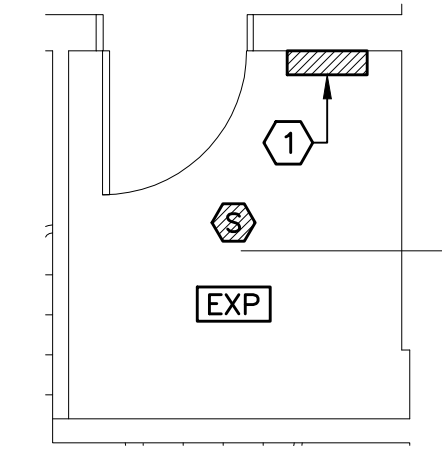
John M. Jewell
11-20-2014



PROJECT TITLE: WARDLAW/DRAYTON HALL BUILDINGS
FIRST FLOOR FIRE ALARM DEMOLITION PLAN
SHEET: FD-2 OF SHEET IN SET: 4 OF 11
University of South Carolina



2 SECOND FLOOR MEZZANINE FIRE ALARM DEMOLITION PLAN
 FD-3 SCALE: 1/16" = 1' - 0"



3 PART PLAN - ELECTRICAL ROOM 274L
 FD-3 SCALE: 1/4" = 1' - 0"

GENERAL NOTES

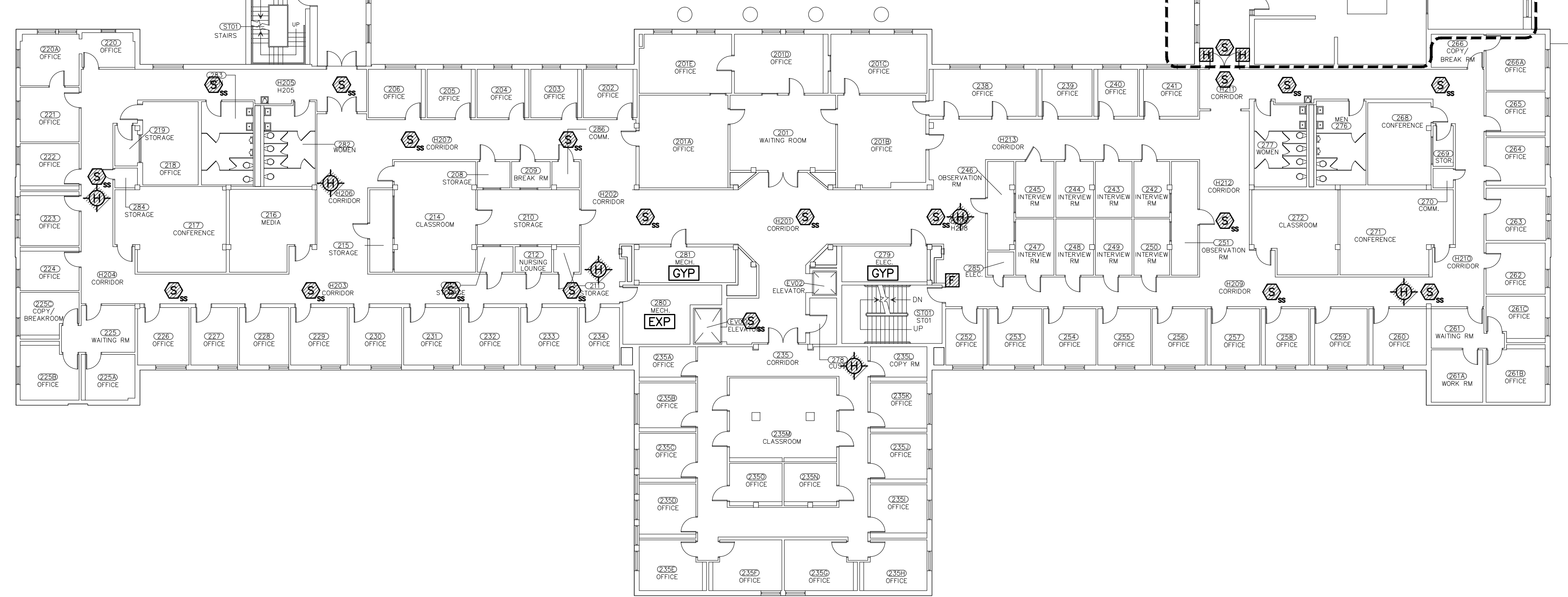
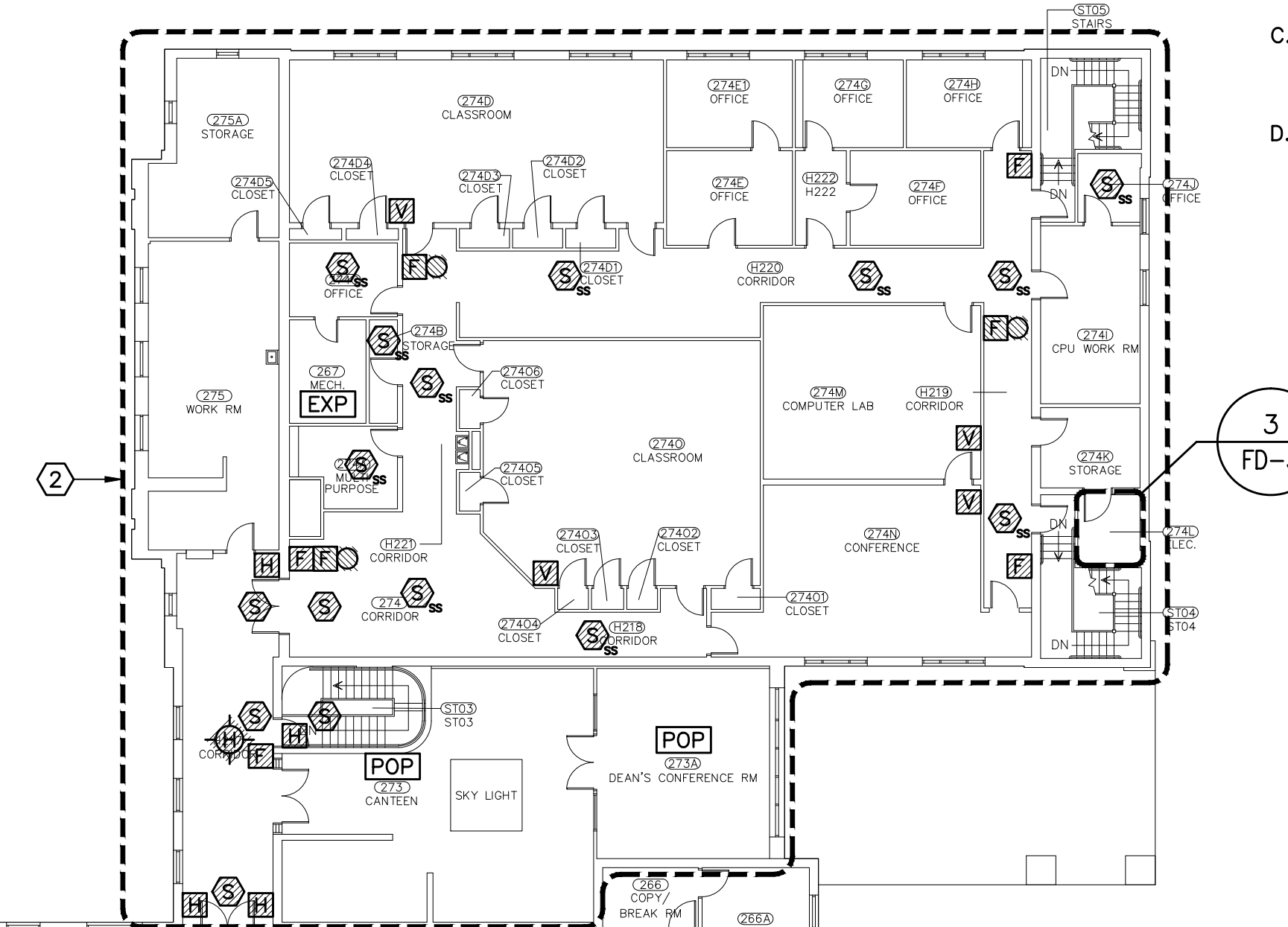
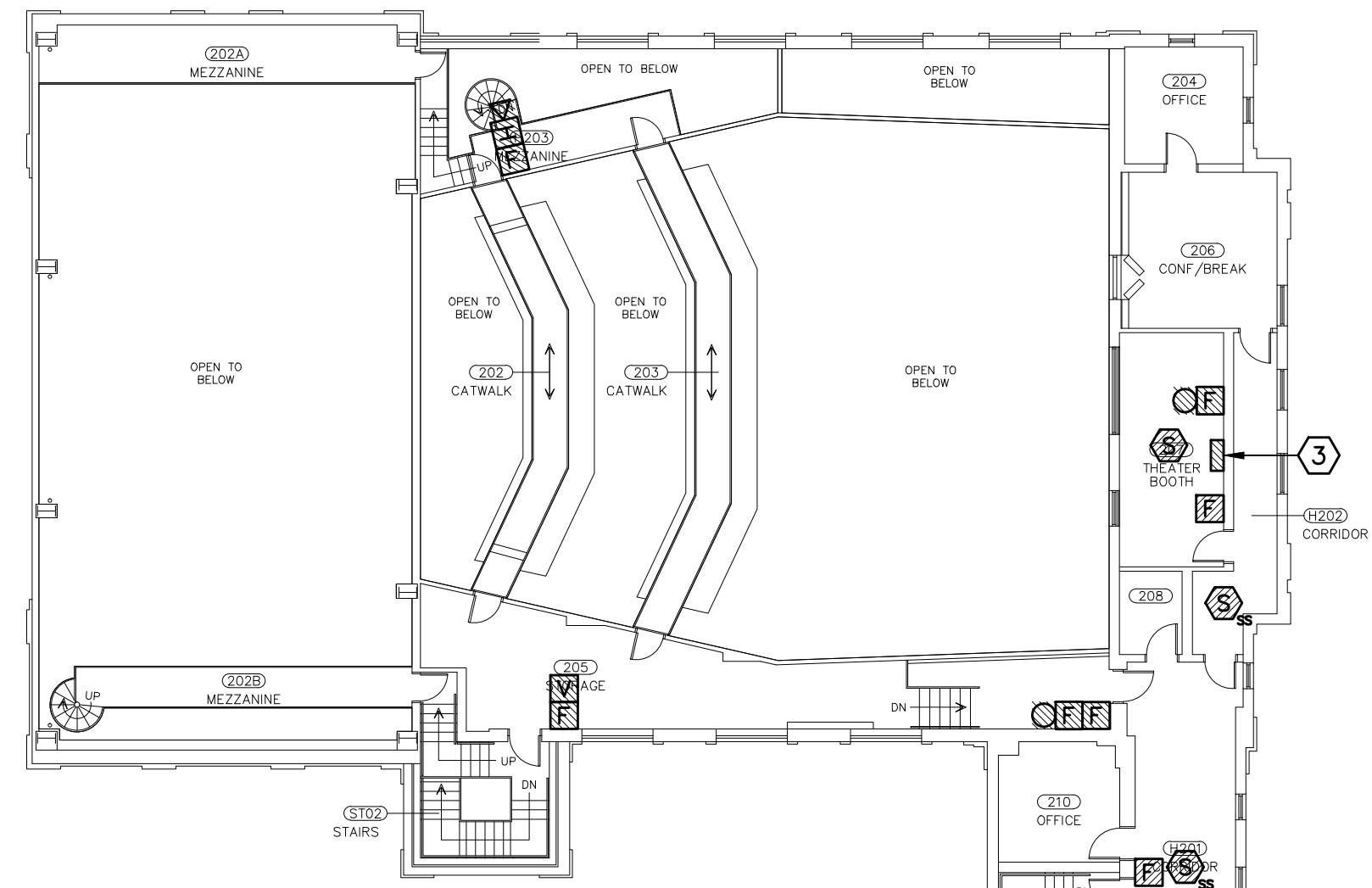
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KEY NOTES #

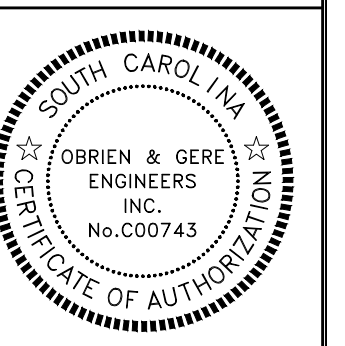
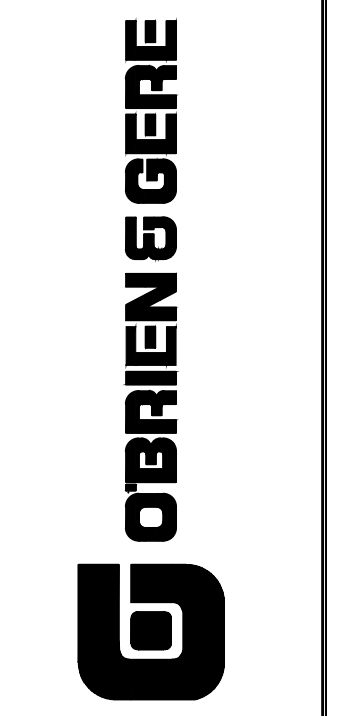
- SIMPLEX 4001 FIRE ALARM CONTROL PANEL TO BE REMOVED.
- FIRE ALARM DEVICES LOCATED WITHIN THIS AREA ARE CONNECTED TO THE SIMPLEX 4001 FIRE ALARM CONTROL PANEL LOCATED IN ELECTRICAL ROOM 274L.
- SIMPLEX FIRE ALARM CONTROL PANEL TO BE REMOVED.

ASBESTOS HAZARDS MATERIALS NOTES:

- WARDLAW COLLEGE OF EDUCATION:
 - JOINT COMPOUND TESTS POSITIVE FOR ASBESTOS CONTAINING MATERIALS.
 - FIRE DOORS TEST POSITIVE FOR ASBESTOS CONTAINING MATERIALS IN THIS BUILDING.
 - THERE IS ASBESTOS BLACK MASTIC ON THE HVAC DUCTS IN THE ENTIRE BUILDING AS WELL AS ON THE WATER LINES INSULATION ABOVE THE CEILING IN THE BUILDING.
 - THE FLOOR TILES IN THE BUILDING (9x9), AS WELL AS THE BLACK MASTIC THAT HOLDS IT TO THE CONCRETE TESTS POSITIVE FOR ASBESTOS CONTAINING MATERIALS.

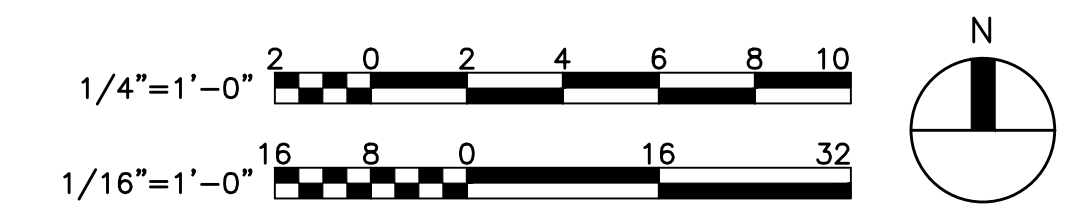


1 SECOND FLOOR FIRE ALARM DEMOLITION PLAN
 FD-3 SCALE: 1/16" = 1' - 0"



SEAL:	CHECKED BY:	DATE:	DRAWN BY:	DATE:	BUILDING:
	CLB	11/7/14	PM	11/20/14	DRAYTON
	ORIG. BY:	DESCRIPTION	ISSUED FOR:		REV
	PAM		BID		0

John M. Kennedy
 11-20-2014



PROJECT TITLE: WARDLAW/DRAYTON HALL BUILDINGS
 SECOND FLOOR FIRE ALARM DEMOLITION PLAN
 SHEET: FD-3 OF 5
 SHEET IN SET: 5 OF 11

University of South Carolina




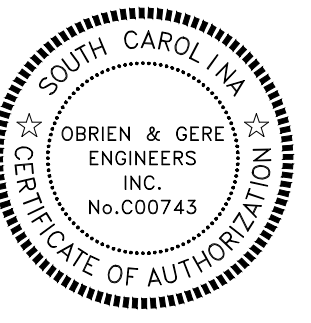
1 THIRD FLOOR FIRE ALARM DEMOLITION PLAN
 FD-4 SCALE: 1/16" = 1' - 0"

GENERAL NOTES

1. ALL CEILINGS ARE LAY-IN-CEILING (LIC) UNLESS NOTED OTHERWISE.
2. CEILING TYPES ARE REFERENCED FOR INFORMATION PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE TO FIELD DETERMINE ALL BUILDING FEATURES.

ASBESTOS HAZARDS MATERIALS NOTES:

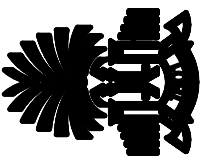
1. WARDLAW COLLEGE OF EDUCATION:
 - A. JOINT COMPOUND TESTS POSITIVE FOR ASBESTOS CONTAINING MATERIALS.
 - B. FIRE DOORS TEST POSITIVE FOR ASBESTOS CONTAINING MATERIALS IN THIS BUILDING.
 - C. THERE IS ASBESTOS BLACK MASTIC ON THE HVAC DUCTS IN THE ENTIRE BUILDING AS WELL AS ON THE WATER LINES INSULATION ABOVE THE CEILING IN THE BUILDING.
 - D. THE FLOOR TILES IN THE BUILDING (9x9), AS WELL AS THE BLACK MASTIC THAT HOLDS IT TO THE CONCRETE TESTS POSITIVE FOR ASBESTOS CONTAINING MATERIALS.

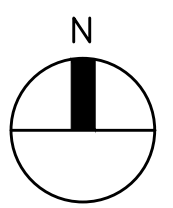

BUILDING:	DRAWING:	DATE:	DRAWN BY:	CHECKED BY:
DRAYTON	ISSUED FOR BID	11/7/14	JM	CLB
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	ISSUED FOR BID			JK
				DATE
				11/20/14
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				PAM

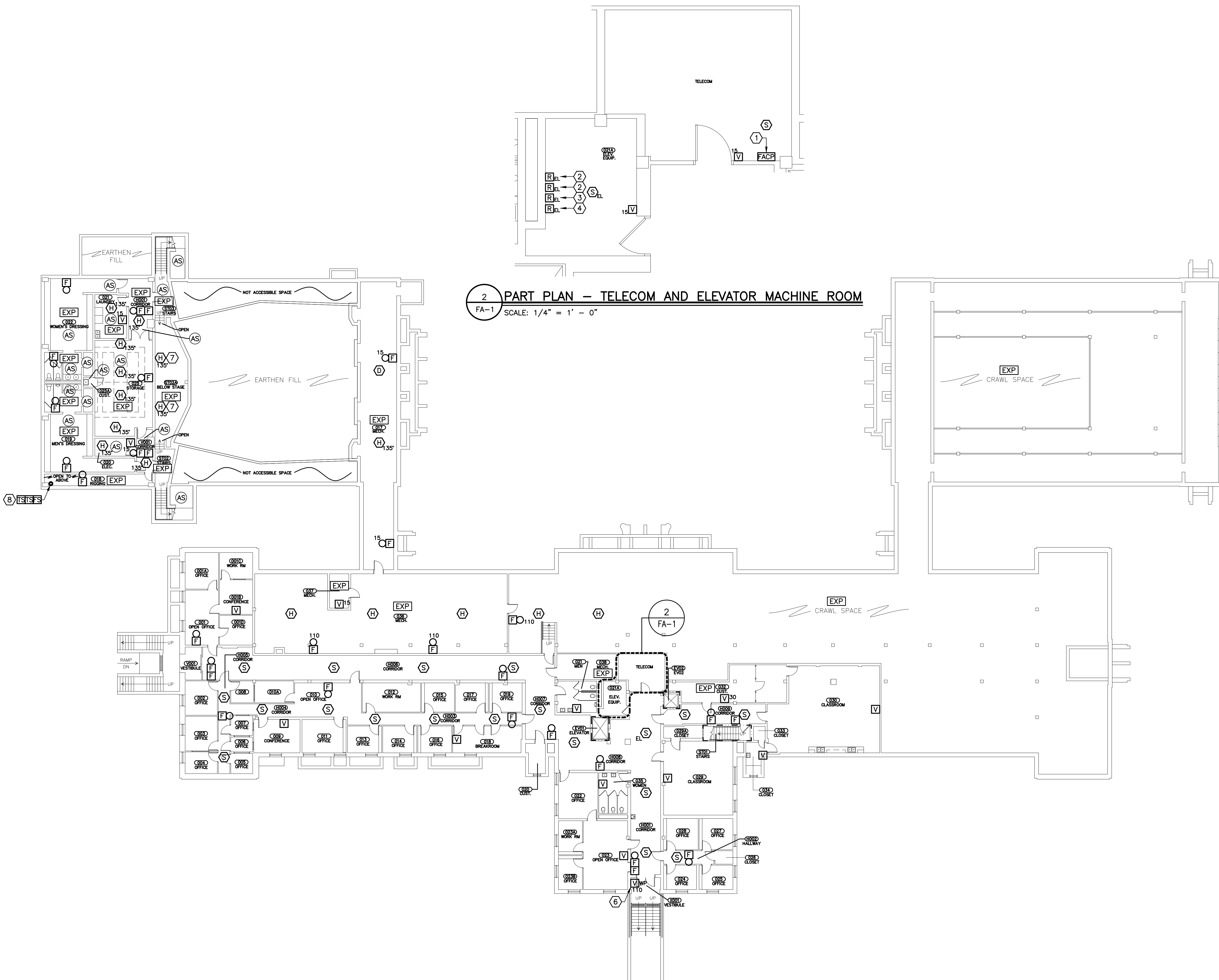
PROJECT TITLE: WARDLAW/DRAYTON HALL BUILDINGS
 THIRD FLOOR FIRE ALARM DEMOLITION PLAN

University of South Carolina



SHEET: FD-4
OF
SHEET IN SET: 6 OF 11



2 PART PLAN - TELECOM AND ELEVATOR MACHINE ROOM
 FA-1 SCALE: 1/4" = 1' - 0"

1 BASEMENT FIRE ALARM NEW WORK PLAN
 FA-1 SCALE: 1/16" = 1' - 0"

GENERAL NOTES

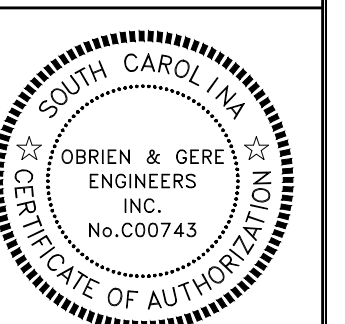
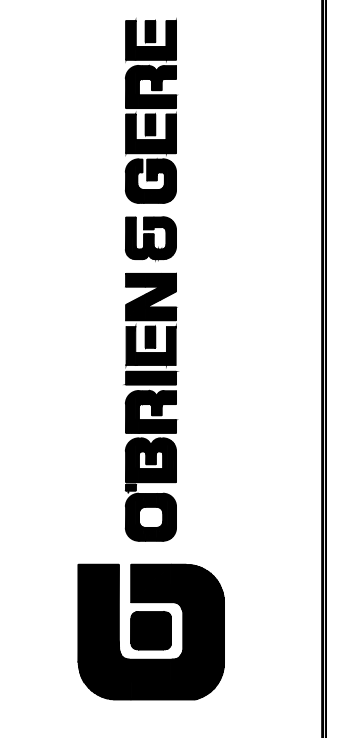
- ALL CEILINGS ARE LAY-IN-CEILING (LIC) UNLESS NOTED OTHERWISE.
- CEILING TYPES ARE REFERENCED FOR INFORMATION PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE TO FIELD DETERMINE ALL BUILDING FEATURES.
- SOME DETECTORS LOCATED NEAR STEAM PIPES MAY BE REQUIRED TO BE HEAT DETECTORS. CONTRACTOR SHALL CONSIDER AND INCLUDE HEAT DETECTION AND PROVIDE IF NECESSARY AND AS REQUIRED TO AVOID FALSE ALARMS.
- 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 LISTED IN KEYNOTES 2, 3, 4, AND 5 BELOW. 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.
- ALL VISUAL APPLIANCES SHALL BE A MINIMUM 75 CANDELA FOR ADA COMPLIANCE UNLESS NOTED OTHERWISE.
- ALL SPACES ARE CONSIDERED NON-SPRINKLERED UNLESS NOTED OTHERWISE ((AS)).

KEY NOTES (#)

- NEW FIRE ALARM CONTROL PANEL. CONTRACTOR TO CONNECT TO EXISTING DEDICATED 120V POWER CIRCUIT FOR FACP. BREAKER SHALL BE IDENTIFIED AS "FIRE ALARM CIRCUIT" IN THE PANELBOARD DIRECTORY. PROVIDE WITH RED MARKING MECHANICALLY SECURED. THE LOCATION OF THE DEDICATED BRANCH CIRCUIT SHALL BE IDENTIFIED AT THE CONTROL PANEL.
- PHASE 1 RECALL - DESIGNATED LEVEL.
- PHASE 1 RECALL - ALTERNATE LEVEL.
- VISUAL WARNING TO ELEVATOR CABS - FIRE FIGHTER'S ALERT.
- ELEVATOR POWER SHUTDOWN (SHUNT TRIP) FUNCTION.
- EXTERIOR DEVICES SHALL BE LOCATED AND PLACED UNDER BUILDING COVER TO PREVENT WATER EXPOSURE. CONTRACTOR SHALL COORDINATE LOCATION WITH THE USC FIRE MARSHAL AND USC FACILITIES DEPARTMENT AND COORDINATE WORK WITH BUILDING FEATURES AND OTHER TRADES.
- INSTALL WALL MOUNTED HEAT DETECTOR ON STAGE SIDE WALL IN EXISTING BELOW STAGE SPACE.
- LOCATION OF EXISTING SPRINKLER RISER WITH VERTICAL BACKFLOW PREVENTION DEVICE (BFPD). BFPD VALVES ARE CURRENTLY CHAIN-LOCKED IN THE OPEN POSITION. PROVIDE ELECTRICAL SUPERVISION TO COMPLY WITH CODE.

ASBESTOS HAZARDS MATERIALS NOTES:

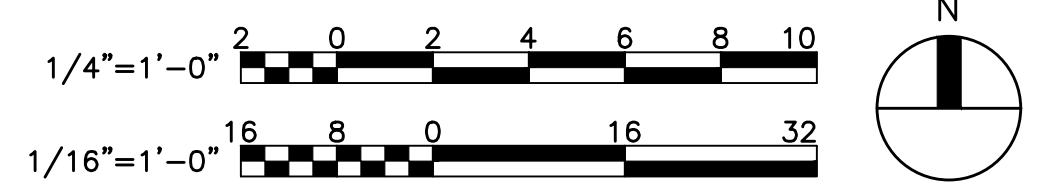
- WARDLAW COLLEGE OF EDUCATION:
 - JOINT COMPOUND TESTS POSITIVE FOR ASBESTOS CONTAINING MATERIALS.
 - FIRE DOORS TEST POSITIVE FOR ASBESTOS CONTAINING MATERIALS IN THIS BUILDING.
 - THERE IS ASBESTOS BLACK MASTIC ON THE HVAC DUCTS IN THE ENTIRE BUILDING AS WELL AS ON THE WATER LINES INSULATION ABOVE THE CEILING IN THE BUILDING.
 - THE FLOOR TILES IN THE BUILDING (9x9), AS WELL AS THE BLACK MASTIC THAT HOLDS IT TO THE CONCRETE TESTS POSITIVE FOR ASBESTOS CONTAINING MATERIALS.
 - THERE IS ASBESTOS TSI IN THE BASEMENT MECHANICAL ROOM STEAM PIPE AND HOT WATER PIPE AIR CELL IN THE CRAWL SPACE. IF CONTRACTOR HAS TO DISTURB THIS MATERIAL CALL TY RUSSELL WITH USC BEFORE DISTURBANCE OCCURS.
- CONTACT USC FACILITIES FOR ASBESTOS HAZARDS REPORT FOR THE DRAYTON HALL BUILDING PRIOR TO BID AND PRICE ACCORDING TO REPORT.



SEAL:	DATE:	CHECKED BY:	DATE:	DRAWN BY:	DATE:
	11/7/4/14	CLB	11/20/14	JK	11/20/14
BUILDING:	DESCRIPTION:	DATE:	ISSUED FOR:		
DRAYTON	ISSUED FOR BID				

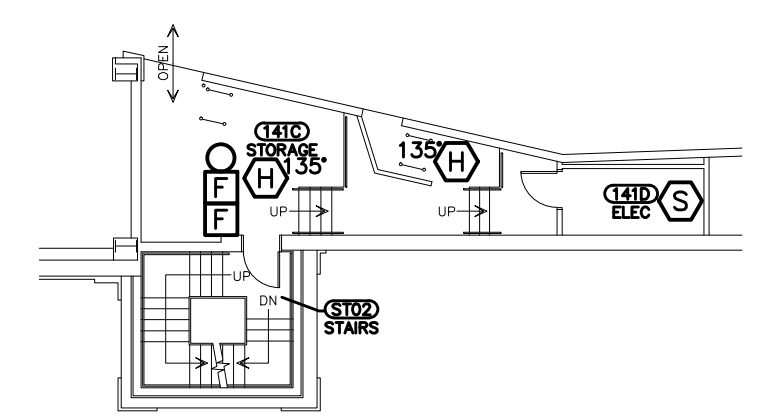
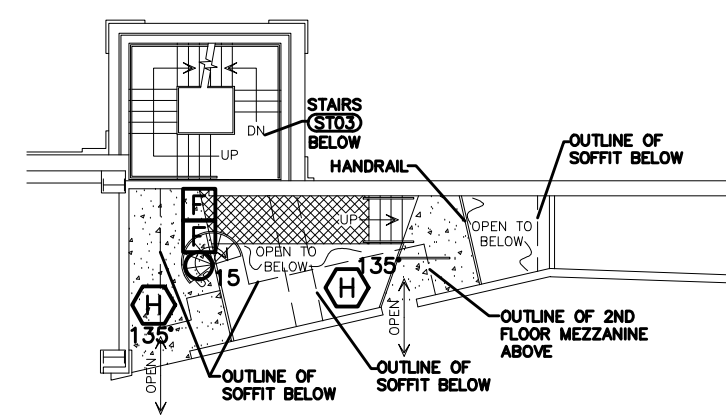
PROJECT TITLE: WARDLAW/DRAYTON HALL BUILDINGS
 BASEMENT FIRE ALARM NEW WORK PLAN

FA-1
 OF
 SHEET IN SET:
 7 OF 11



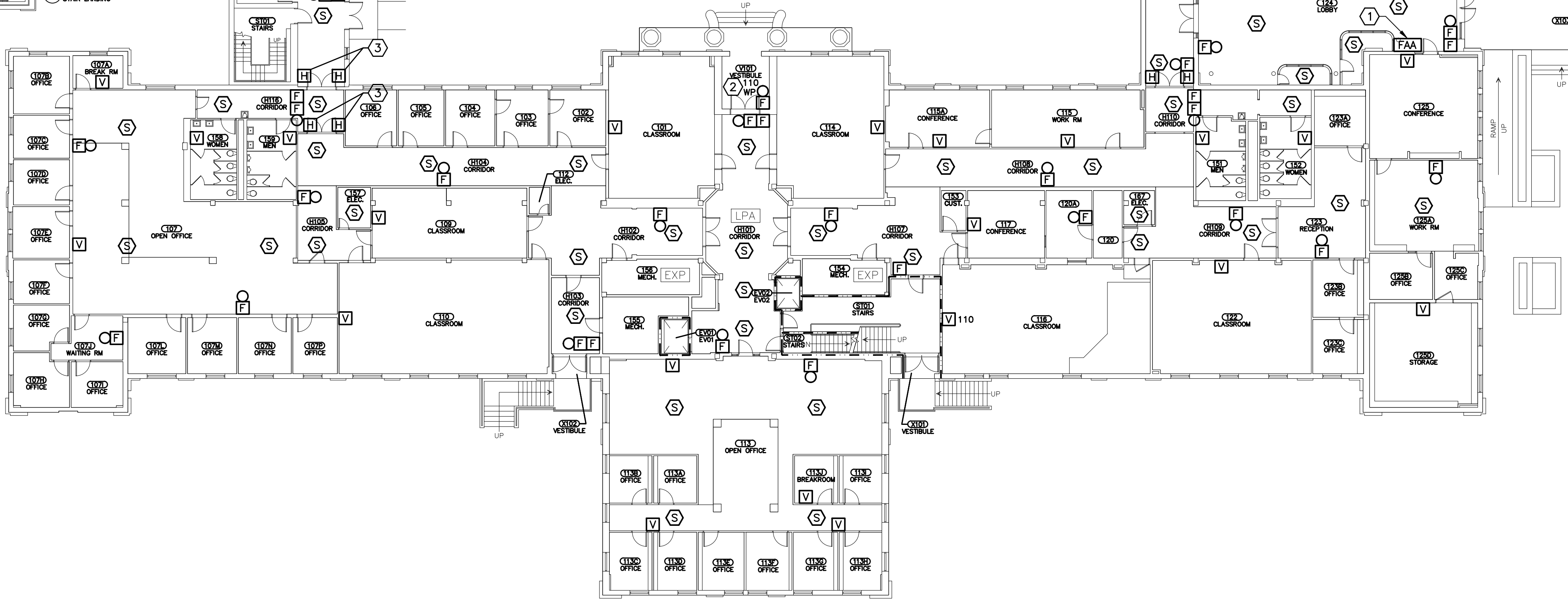
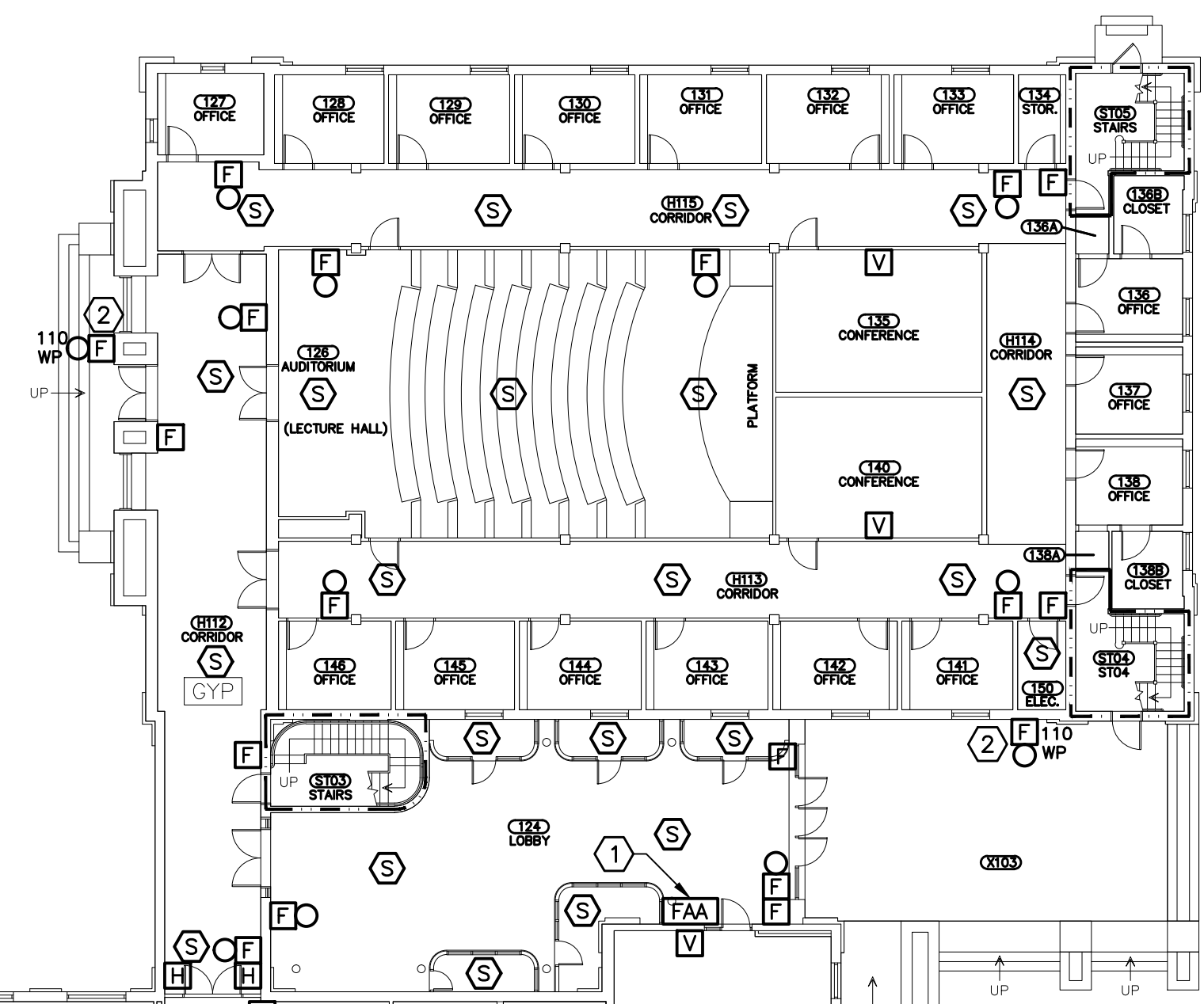
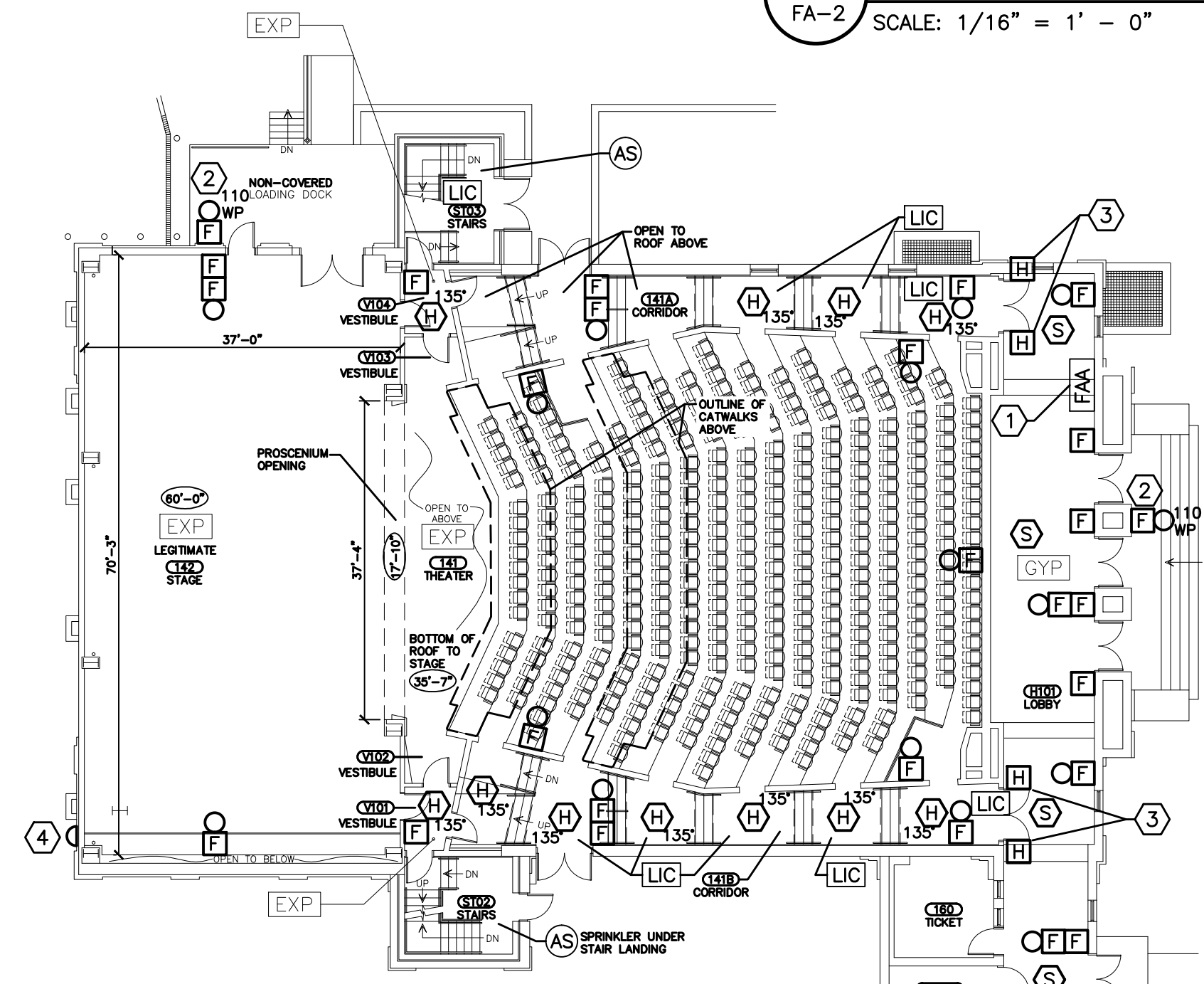
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 11-20-2014

University of South Carolina



2 FIRST FLOOR MEZZANINE NORTH FIRE ALARM NEW WORK PLAN
FA-2 SCALE: 1/16" = 1' - 0"

3 FIRST FLOOR MEZZANINE SOUTH FIRE ALARM NEW WORK PLAN
FA-2 SCALE: 1/16" = 1' - 0"



1 FIRST FLOOR FIRE ALARM NEW WORK PLAN
FA-2 SCALE: 1/16" = 1' - 0"

- GENERAL NOTES**
- ALL CEILINGS ARE LAY-IN-CEILING (LIC) UNLESS NOTED OTHERWISE.
 - CEILING TYPES ARE REFERENCED FOR INFORMATION PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE TO FIELD DETERMINE ALL BUILDING FEATURES.
 - ALL VISUAL APPLIANCES SHALL BE A MINIMUM 75 CANDELA FOR ADA COMPLIANCE UNLESS NOTED OTHERWISE. REFER TO NEW WORK PLANS FOR ADDITIONAL INFORMATION/GUIDANCE.
 - ANY DIMENSIONS OR CEILING HEIGHTS PROVIDED ARE APPROXIMATE LENGTHS/DISTANCES.
 - ALL SPACES ARE CONSIDERED NON-SPRINKLERED UNLESS NOTED OTHERWISE ((AS)).

- KEY NOTES (#)**
- FIRE ALARM ANNUCIATOR UNIT TO PROVIDE IDENTICAL FUNCTIONS AND DISPLAY INCLUDING MICROPHONE AS THE FIRE ALARM CONTROL UNIT. ANNUCIATOR UNIT TO BE CONNECTED TO THE FIRE ALARM CONTROL UNIT LOCATED IN BASEMENT TELECOM ROOM.
 - EXTERIOR DEVICES SHALL BE LOCATED AND PLACED UNDER BUILDING COVER TO PREVENT WATER EXPOSURE. CONTRACTOR SHALL COORDINATE LOCATION WITH THE USC FIRE MARSHAL AND USC FACILITIES DEPARTMENT AND COORDINATE WORK WITH BUILDING FEATURES AND OTHER TRADES.
 - PROVIDE DOOR HOLDERS ONLY IN THIS AREA.
 - EXISTING MOTOR WATER GONG. PROVIDES EXTERIOR LOCAL ALARM.

- ASBESTOS HAZARDS MATERIALS NOTES:**
- WARDLAW COLLEGE OF EDUCATION:
 - JOINT COMPOUND TESTS POSITIVE FOR ASBESTOS CONTAINING MATERIALS.
 - FIRE DOORS TEST POSITIVE FOR ASBESTOS CONTAINING MATERIALS IN THIS BUILDING.
 - THERE IS ASBESTOS BLACK MASTIC ON THE HVAC DUCTS IN THE ENTIRE BUILDING AS WELL AS ON THE WATER LINES INSULATION ABOVE THE CEILING IN THE BUILDING.
 - THE FLOOR TILES IN THE BUILDING (9x9), AS WELL AS THE BLACK MASTIC THAT HOLDS IT TO THE CONCRETE TESTS POSITIVE FOR ASBESTOS CONTAINING MATERIALS.
 - CONTACT USC FACILITIES FOR ASBESTOS HAZARDS REPORT FOR THE DRAYTON HALL BUILDING PRIOR TO BID AND PRICE ACCORDING TO REPORT.

O'BRIEN & GERE

SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEERS
No. 000743
STATE OF SOUTH CAROLINA

SEAL:	CHECKED BY:	DATE:	DRAWN BY:	DATE:
	CLB	11/20/14	IPM	11/4/14
	ORIG. BY:	DESCRIPTION:	ISSUED FOR BID	
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	PAM			

BUILDING: DRAYTON HALL
PROJECT TITLE: WARDLAW/DRAYTON HALL BUILDINGS
FIRST FLOOR FIRE ALARM NEW WORK PLAN

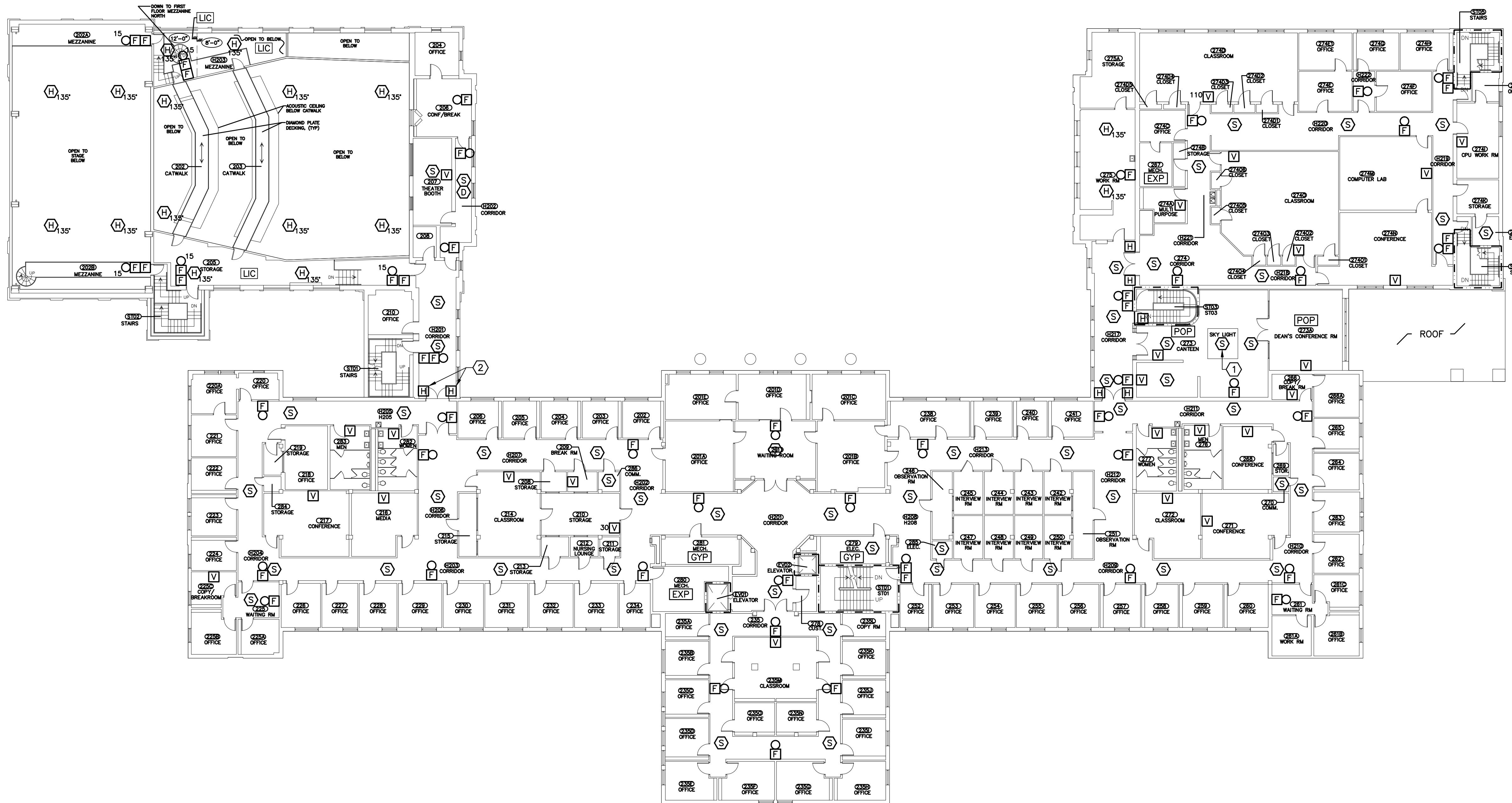
University of South Carolina

SHEET: FA-2 OF 8 OF 11

SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
No. 30943
JOHN M. KENNEDY

John Kennedy
11-20-2014





GENERAL NOTES

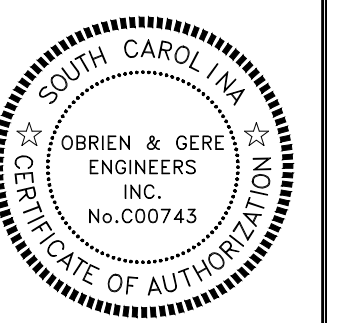
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3. ALL VISUAL APPLIANCES SHALL BE A MINIMUM 75 CANDELA FOR ADA COMPLIANCE UNLESS NOTED OTHERWISE.
4. ALL SPACES ARE CONSIDERED NON-SPRINKLERED.

KEY NOTES (#)

1. SMOKE DETECTOR SHALL BE LOCATED ON SIDEWALL OF SKY LIGHT OPENING.
2. PROVIDE DOOR HOLDERS ONLY IN THIS AREA.

ASBESTOS HAZARDS MATERIALS NOTES:

1. WARDLAW COLLEGE OF EDUCATION:
 - A. JOINT COMPOUND TESTS POSITIVE FOR ASBESTOS CONTAINING MATERIALS.
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2. CONTACT USC FACILITIES FOR ASBESTOS HAZARDS REPORT FOR THE DRAYTON HALL BUILDING PRIOR TO BID AND PRICE ACCORDING TO REPORT.



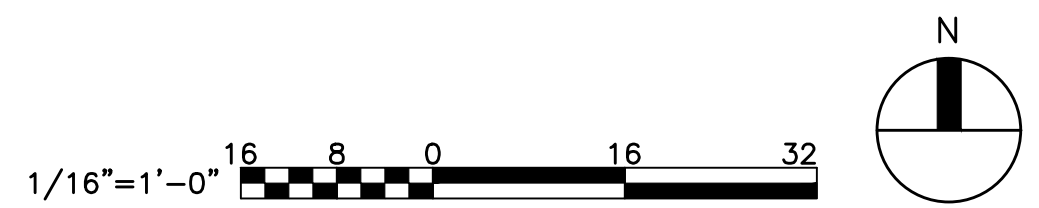
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	CLB	11/7/14	JM	11/20/14	
	ORIG. BY:	DESCRIPTION:	ISSUED FOR BID:		
	PAM				

PROJECT TITLE: WARDLAW/DRAYTON HALL BUILDINGS
 SECOND FLOOR FIRE ALARM NEW WORK PLAN
 SHEET: FA-3
 OF
 SHEET IN SET:
 9 OF 11

University of South Carolina

John M. Kennedy
 11-20-2014

1 SECOND FLOOR FIRE ALARM NEW WORK PLAN
 FA-3 SCALE: 1/16" = 1' - 0"





1 THIRD FLOOR FIRE ALARM NEW WORK PLAN
 FA-4 SCALE: 1/16" = 1' - 0"

GENERAL NOTES

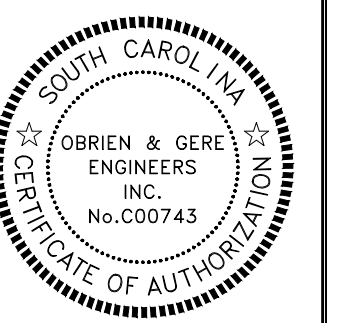
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2. CEILING TYPES ARE REFERENCED FOR INFORMATION PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE TO FIELD DETERMINE ALL BUILDING FEATURES.
3. ALL VISUAL APPLIANCES SHALL BE A MINIMUM 75 CANDELA FOR ADA COMPLIANCE UNLESS NOTED OTHERWISE.

KEY NOTES (#)

1. NEW TRANSMITTER UNIT AND ASSOCIATED ANTENNA TO BE PRE-WIRED BY THE FIRE ALARM INSTALLATION CONTRACTOR. COORDINATE EXACT LOCATION OF UNIT AND ANTENNA WITH USC FIRE MARSHALS OFFICE.

ASBESTOS HAZARDS MATERIALS NOTES:

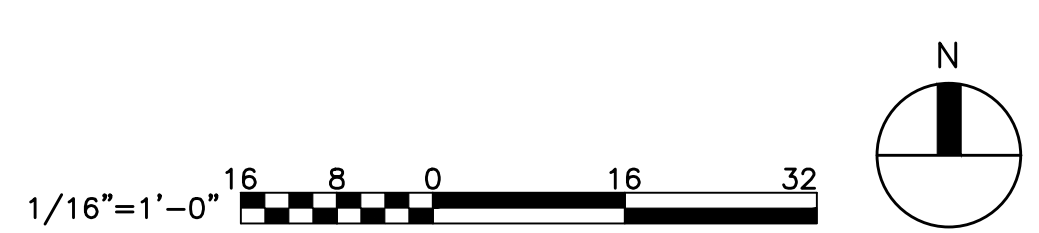
1. WARDLAW COLLEGE OF EDUCATION:
 - A. JOINT COMPOUND TESTS POSITIVE FOR ASBESTOS CONTAINING MATERIALS.
 - B. FIRE DOORS TEST POSITIVE FOR ASBESTOS CONTAINING MATERIALS IN THIS BUILDING.
 - C. THERE IS ASBESTOS BLACK MASTIC ON THE HVAC DUCTS IN THE ENTIRE BUILDING AS WELL AS ON THE WATER LINES INSULATION ABOVE THE CEILING IN THE BUILDING.
 - D. THE FLOOR TILES IN THE BUILDING (9x9), AS WELL AS THE BLACK MASTIC THAT HOLDS IT TO THE CONCRETE TESTS POSITIVE FOR ASBESTOS CONTAINING MATERIALS.
2. CONTACT USC FACILITIES FOR ASBESTOS HAZARDS REPORT FOR THE DRAYTON HALL BUILDING PRIOR TO BID AND PRICE ACCORDING TO REPORT.



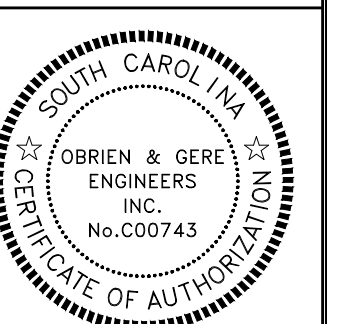
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				BY: PAM
				BY: JK
				BY: JK

PROJECT TITLE: WARDLAW/DRAYTON HALL BUILDINGS
 THIRD FLOOR FIRE ALARM NEW WORK PLAN
 University of South Carolina

John M. Kennedy
 11-20-2014



SHEET:
 FA-4
 OF
 SHEET IN SET:
 10 OF 11



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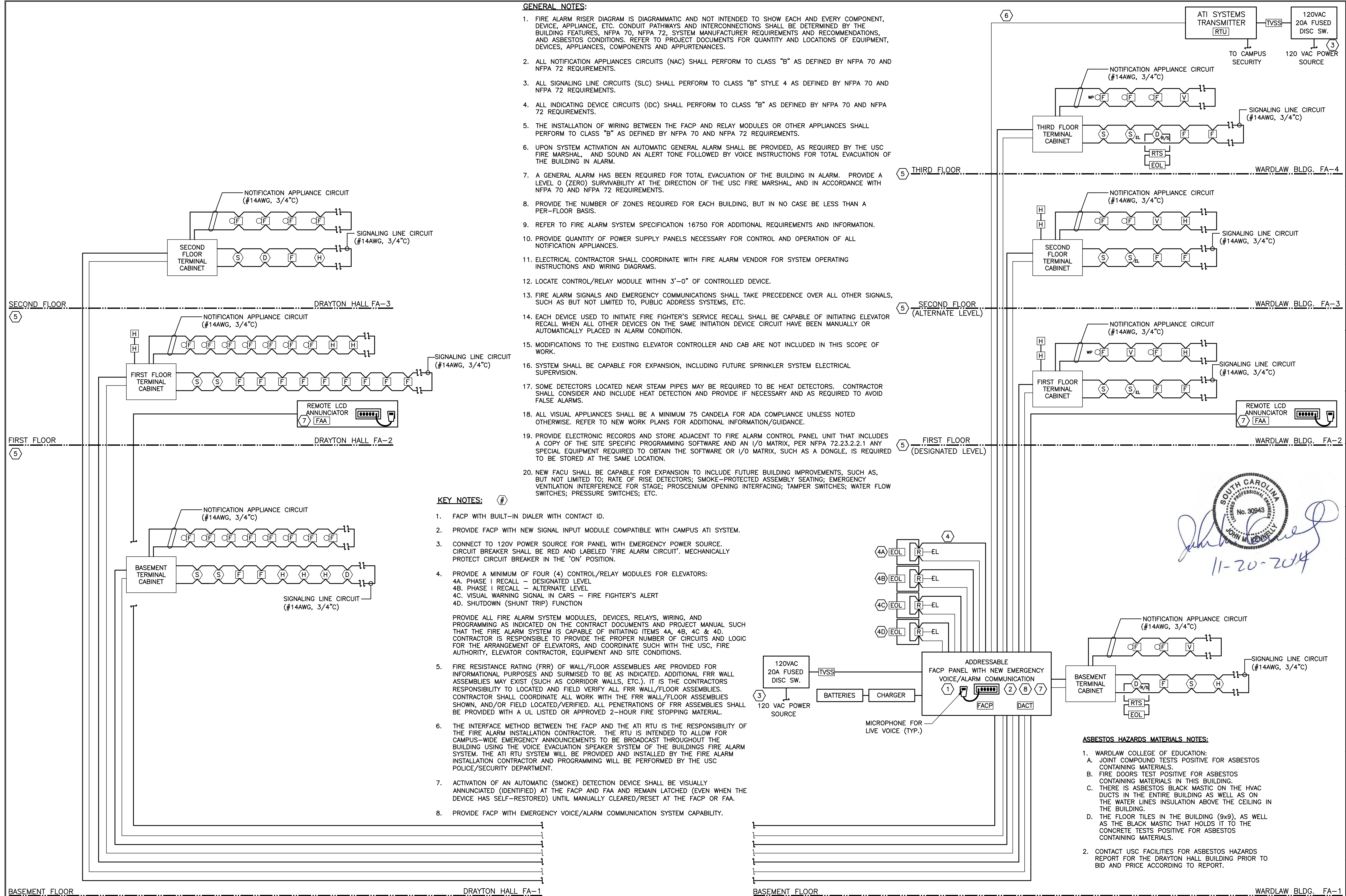
PROJECT TITLE: WARDLAW/DRAYTON HALL BUILDINGS
 FIRE ALARM RISER DIAGRAM
 SHEET: FA-5
 OF
 SHEET IN SET:
 11 OF 11

GENERAL NOTES:

1. 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 APPLIANCE CIRCUITS (NAC) SHALL PERFORM TO CLASS "B" AS DEFINED BY NFPA 70 AND NFPA 72 REQUIREMENTS.
3. ALL SIGNALING LINE CIRCUITS (SLC) SHALL PERFORM TO CLASS "B" STYLE 4 AS DEFINED BY NFPA 70 AND NFPA 72 REQUIREMENTS.
4. ALL INDICATING DEVICE CIRCUITS (IDC) SHALL PERFORM TO CLASS "B" AS DEFINED BY NFPA 70 AND NFPA 72 REQUIREMENTS.
5. THE INSTALLATION OF WIRING BETWEEN THE FACP 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. 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.
8. PROVIDE THE NUMBER OF ZONES REQUIRED FOR EACH BUILDING, BUT IN NO CASE BE LESS THAN A PER-FLOOR BASIS.
9. REFER TO FIRE ALARM SYSTEM SPECIFICATION 16750 FOR ADDITIONAL REQUIREMENTS AND INFORMATION.
10. PROVIDE QUANTITY OF POWER SUPPLY PANELS NECESSARY FOR CONTROL AND OPERATION OF ALL NOTIFICATION APPLIANCES.
11. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH FIRE ALARM VENDOR FOR SYSTEM OPERATING INSTRUCTIONS AND WIRING DIAGRAMS.
12. LOCATE CONTROL/RELAY MODULE WITHIN 3'-0" OF CONTROLLED DEVICE.
13. FIRE ALARM SIGNALS AND EMERGENCY COMMUNICATIONS SHALL TAKE PRECEDENCE OVER ALL OTHER SIGNALS, SUCH AS BUT NOT LIMITED TO, PUBLIC ADDRESS SYSTEMS, ETC.
14. 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.
15. MODIFICATIONS TO THE EXISTING ELEVATOR CONTROLLER AND CAB ARE NOT INCLUDED IN THIS SCOPE OF WORK.
16. SYSTEM SHALL BE CAPABLE FOR EXPANSION, INCLUDING FUTURE SPRINKLER SYSTEM ELECTRICAL SUPERVISION.
17. SOME 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.
18. ALL VISUAL APPLIANCES SHALL BE A MINIMUM 75 CANDELA FOR ADA COMPLIANCE UNLESS NOTED OTHERWISE. REFER TO NEW WORK PLANS FOR ADDITIONAL INFORMATION/GUIDANCE.
19. PROVIDE ELECTRONIC RECORDS AND STORE ADJACENT TO FIRE ALARM CONTROL PANEL UNIT THAT INCLUDES A COPY OF THE SITE SPECIFIC PROGRAMMING SOFTWARE AND AN I/O MATRIX, PER NFPA 72.23.2.2.1 ANY SPECIAL EQUIPMENT REQUIRED TO OBTAIN THE SOFTWARE OR I/O MATRIX, SUCH AS A DONGLE, IS REQUIRED TO BE STORED AT THE SAME LOCATION.
20. NEW FACU SHALL BE CAPABLE FOR EXPANSION TO INCLUDE FUTURE BUILDING IMPROVEMENTS, SUCH AS, BUT NOT LIMITED TO; RATE OF RISE DETECTORS; SMOKE-PROTECTED ASSEMBLY SEATING; EMERGENCY VENTILATION INTERFERENCE FOR STAGE; PROSCENIUM OPENING INTERFACING; TAMPER SWITCHES; WATER FLOW SWITCHES; PRESSURE SWITCHES; ETC.

KEY NOTES:

1. FACP WITH BUILT-IN DIALER WITH CONTACT ID.
 2. PROVIDE FACP WITH NEW 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
- 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.
5. FIRE RESISTANCE RATING (FRR) OF WALL/FLOOR ASSEMBLIES ARE PROVIDED FOR INFORMATIONAL PURPOSES AND SURMISED TO BE AS INDICATED. ADDITIONAL FRR WALL ASSEMBLIES MAY EXIST (SUCH AS CORRIDOR WALLS, ETC.). IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATED AND FIELD VERIFY ALL FRR WALL/FLOOR ASSEMBLIES. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE FRR WALL/FLOOR ASSEMBLIES SHOWN, AND/OR FIELD LOCATED/VERIFIED. ALL PENETRATIONS OF FRR ASSEMBLIES SHALL BE PROVIDED WITH A UL LISTED OR APPROVED 2-HOUR FIRE STOPPING MATERIAL.
 6. THE INTERFACE METHOD BETWEEN THE FACP AND THE ATI RTU IS THE RESPONSIBILITY OF THE FIRE ALARM 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 SYSTEM WILL BE PROVIDED AND INSTALLED BY THE FIRE ALARM INSTALLATION CONTRACTOR AND PROGRAMMING WILL BE PERFORMED BY THE USC POLICE/SECURITY DEPARTMENT.
 7. ACTIVATION OF AN AUTOMATIC (SMOKE) DETECTION DEVICE SHALL BE VISUALLY ANNUNCIATED (IDENTIFIED) AT THE FACP AND FAA AND REMAIN LATCHED (EVEN WHEN THE DEVICE HAS SELF-RESTORED) UNTIL MANUALLY CLEARED/RESET AT THE FACP OR FAA.
 8. PROVIDE FACP WITH EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM CAPABILITY.



ASBESTOS HAZARDS MATERIALS NOTES:

1. WARDLAW COLLEGE OF EDUCATION:
 - A. JOINT COMPOUND TESTS POSITIVE FOR ASBESTOS CONTAINING MATERIALS.
 - B. FIRE DOORS TEST POSITIVE FOR ASBESTOS CONTAINING MATERIALS IN THIS BUILDING.
 - C. THERE IS ASBESTOS BLACK MASTIC ON THE HVAC DUCTS IN THE ENTIRE BUILDING AS WELL AS ON THE WATER LINES INSULATION ABOVE THE CEILING IN THE BUILDING.
 - D. THE FLOOR TILES IN THE BUILDING (9x9), AS WELL AS THE BLACK MASTIC THAT HOLDS IT TO THE CONCRETE TESTS POSITIVE FOR ASBESTOS CONTAINING MATERIALS.
2. CONTACT USC FACILITIES FOR ASBESTOS HAZARDS REPORT FOR THE DRAYTON HALL BUILDING PRIOR TO BID AND PRICE ACCORDING TO REPORT.

1 FIRE ALARM RISER DIAGRAM
 FA-5
 SCALE: NOT TO SCALE