

GENERAL CONSTRUCTION NOTES

. PROVIDE ALL WORK IN ACCORDANCE WITH THE FOLLOWING CODES AND STANDARDS:

INTERNATIONAL BUILDING CODE

BUILDINGS AND FACILITIES

NATIONAL ELECTRICAL CODE.

2012 EDITION NFPA 70 - NATIONAL ELECTRICAL CODE 2011 EDITION

NFPA 72 - NATIONAL FIRE ALARM CODE 2010 EDITION

ANSI A117.1 - ACCESSIBLE AND USABLE 2009 EDITION

PROVIDE RACEWAY AND WIRING TO ALL DEVICES AND EQUIPMENT INDICATED ON THE CONTRACT DRAWINGS. THE DRAWINGS INDICATE PARTIAL RACEWAY AND WIRING REQUIREMENTS TO HELP CLARIFY DESIGN INTENT. WHERE RACEWAY AND/OR WIRING IS NOT INDICATED FOR DEVICES OR EQUIPMENT THE ARRANGEMENT, GROUPING, AND ROUTING SHALL BE PROVIDED IN ACCORDANCE WITH THE 2011 EDITION OF THE

- ALL CONDUIT PENETRATIONS THROUGH WALLS AND CEILINGS SHALL BE 2-HOUR FIRESTOPPED IN ACCORDANCE WITH THE FIRESTOP DETAILS SHOWN ON DRAWING E7.0.
- . RACEWAYS SHALL BE EMT WITH COMPRESSION TYPE FITTINGS UNLESS NOTED OR DETAILED OTHERWISE. SIZE RACEWAYS FOR MAXIMUM OF 40% FILL PER THE NATIONAL ELECTRICAL CODE. CONCEAL RACEWAYS IN WALLS AND ABOVE DROP CEILINGS WHERE APPLICABLE. WHERE WIREMOLD SURFACE RACEWAYS ARE INDICATED, RACEWAYS, BOXES AND FITTINGS SHALL BE WIREMOLD #2300 SERIES, WHITE IN COLOR, UNLESS NOTED
- PROVIDE WIREMOLD #2338A-WH ROUND SURFACE BOXES TO MOUNT DETECTION DEVICES (SMOKE AND HEAT DETECTORS) WHERE THEY CANNOT BE SEMI-FLUSH MOUNTED IN
- PROVIDE THE DEVICE MANUFACTURER'S CUSTOM SURFACE BACKBOX FOR NOTIFICATION DEVICES (STROBES AND COMBINATION SPEAKER/STROBES) AND FOR PULL STATIONS WHERE THEY CANNOT BE SEMI-FLUSH MOUNTED IN WALLS OR CEILINGS. PROVIDE WIREMOLD #2310A ENTRANCE END FITTINGS TO ADAPT THE BACKBOX'S RACEWAY NOCK-OUTS TO THE #2300 SURFACE RACEWAY.
- PROVIDE FIRE ALARM SYSTEM CABLES/WIRING AS RECOMMENDED BY THE FIRE ALARM SYSTEM MANUFACTURER. CABLES/WIRES SHALL BE SIZED TO ACCOMMODATE VOLTAGE
- SPLICING: CONNECT CONDUCTORS ASSOCIATED WITH THE FIRE ALARM SYSTEM THAT ARE TERMINATED, SPLICED, OR INTERRUPTED TO TERMINAL BLOCKS. MARK EACH TERMINAL IN ACCORDANCE WITH THE WIRING DIAGRAMS OF THE SYSTEM. MARK ALL CONNECTIONS WITH APPROVED CRIMP-ON TERMINAL SPADE LUGS, PRESSURE-TYPE TERMINAL BLOCKS, OR PLUG CONNECTORS. SOLDER AND/OR WIRE NUTS SHALL NOT BE USED. PROVIDE GREENLITE CABLE ACCESSORY CORPORATION GTB-SERIES, BREAKOFF TYPE TERMINAL BLOCKS OR PRIOR APPROVED EQUAL (PHONE: 626-575-6263).
- INSTALL SMOKE AND HEAT DETECTORS IN ACCORDANCE WITH THEIR U.L. LISTED SPACINGS AND IN ACCORDANCE WITH NFPA 72.
- 10. COORDINATE AND PERFORM TESTING OF FIRE ALARM AND FIRE REPORTING SYSTEMS WITH USC'S SUPERVISING MONITORING STATION AS REQUIRED BY THE UNIVERSITY.
- 11. COORDINATE ALL REQUIRED OUTAGES TO EXISTING ELECTRICAL SERVICES AND THE EXISTING FIRE ALARM SYSTEM WITH DENNIS GALLAGHER OF USC MAINTENANCE (PHONE NUMBER 917-0340) AND TODD GRIFFIN OF USC HEALTH & SAFETY (PHONE NUMBER
- 12. INSTALL ELECTRICAL SYSTEMS WITHOUT INTERFERING WITH EXISTING DUCTS, PIPES, FIXTURES, STRUCTURAL MEMBERS, OR OTHER EXISTING BUILDING COMPONENTS. RACEWAY, EQUIPMENT, AND DEVICE LOCATIONS INDICATED ON PLAN ARE APPROXIMATE. THE CONTRACTOR SHALL LOCATE EQUIPMENT AND DEVICES SO AS NOT TO CONFLICT WITH EXISTING CEILING AND WALL MOUNTED EQUIPMENT, FIXTURES, AND DEVICES. THE CONTRACTOR SHALL MAINTAIN U.L. LISTED SPACINGS FOR FIRE ALARM SYSTEM DETECTION AND NOTIFICATION DEVICES WHEN DETERMINING THEIR EXACT MOUNTING
- 13. CUTTING, DRILLING, AND PATCHING: PROVIDE CHASES, SLOTS, AND OPENINGS IN EXISTING BUILDING COMPONENTS TO ALLOW FOR ELECTRICAL INSTALLATIONS. PERFORM CUTTING, DRILLING, FITTING, AND PATCHING REQUIRED TO:

REQUIREMENTS OF THE CONTRACT DOCUMENTS.

- A) INSTALL EQUIPMENT, MATERIALS, AND RACEWAYS IN EXISTING STRUCTURES. B) REMOVE AND REPLACE DEFECTIVE WORK THAT DOES NOT CONFORM TO
- C) UPON WRITTEN INSTRUCTIONS FROM THE ARCHITECT/ENGINEER, UNCOVER AND RESTORE WORK TO PROVIDE FOR ARCHITECT/ENGINEER OBSERVATION OF CONCEALED WORK.

PROTECT EXISTING STRUCTURES, FURNISHINGS, FINISHES, MECHANICAL SYSTEMS, AND ELECTRICAL SYSTEMS WHILE PERFORMING CUTTING, DRILLING, FITTING, AND PATCHING.

PATCH EXISTING SURFACES AND BUILDING COMPONENTS USING NEW MATERIALS THAT MATCH EXISTING MATERIALS. PATCHING SHALL BE PERFORMED BY EXPERIENCED INSTALLERS.

GENERAL DEMOLITION NOTES

- THE NEW FIRE ALARM SYSTEM SHALL BE FULLY INSTALLED AND TESTED PRIOR TO DEMOLITION OF THE EXISTING FIRE ALARM SYSTEM.
- 2. REMOVE ALL EXISTING FIRE ALARM SYSTEM EQUIPMENT, DEVICES, AND ALL ASSOCIATED RACEWAYS AND WIRING - CONTRACTOR SHALL TURN OVER EXISTING FIRE ALARM SYSTEM PANELS, DETECTION DEVICES, AND NOTIFICATION DEVICES TO THE USC FIRE MARSHAL (TODD GRIFFIN). INTENT OF THIS CONTRACT IS FOR THE CONTRACTOR TO DEMOLISH ALL EXISTING FIRE ALARM SYSTEM COMPONENTS AND ALL ASSOCIATED RACEWAYS AND WIRING SYSTEMS IN AND ON THE BUILDING, UNLESS SPECIFICALLY NOTED OTHERWISE.
- . THE CONTRACTOR SHALL VISIT THE SITE/BUILDING TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID AND SHALL INCLUDE ALL WORK REQUIRED FOR COMPLETE DEMOLITION IN HIS BID.
- 4. ALL HOLES EXPOSED BY THE REMOVAL OF EXISTING EQUIPMENT, DEVICES, AND RACEWAYS SHALL BE PATCHED AND PAINTED TO MATCH SURROUNDING FINISHES.

ELECTRICAL DRAWING LEGEND

E1.0	GENERAL NOTES, LEGEND, AND DETAILS
E2.0	FIRE ALARM SINGLE-LINE DIAGRAM
E3.0	FIRST FLOOR FIRE ALARM PLAN - RENOVATION
E4.0	SECOND FLOOR FIRE ALARM PLAN - RENOVATION
E5.0	THIRD FLOOR FIRE ALARM PLAN - RENOVATION
E6.0	FIRST AND SECOND FLOOR FIRE ALARM PLANS - DEMOLITION
E7.0	THIRD FLOOR FIRE ALARM PLAN - DEMOLITION & FIRESTOP DETAILS
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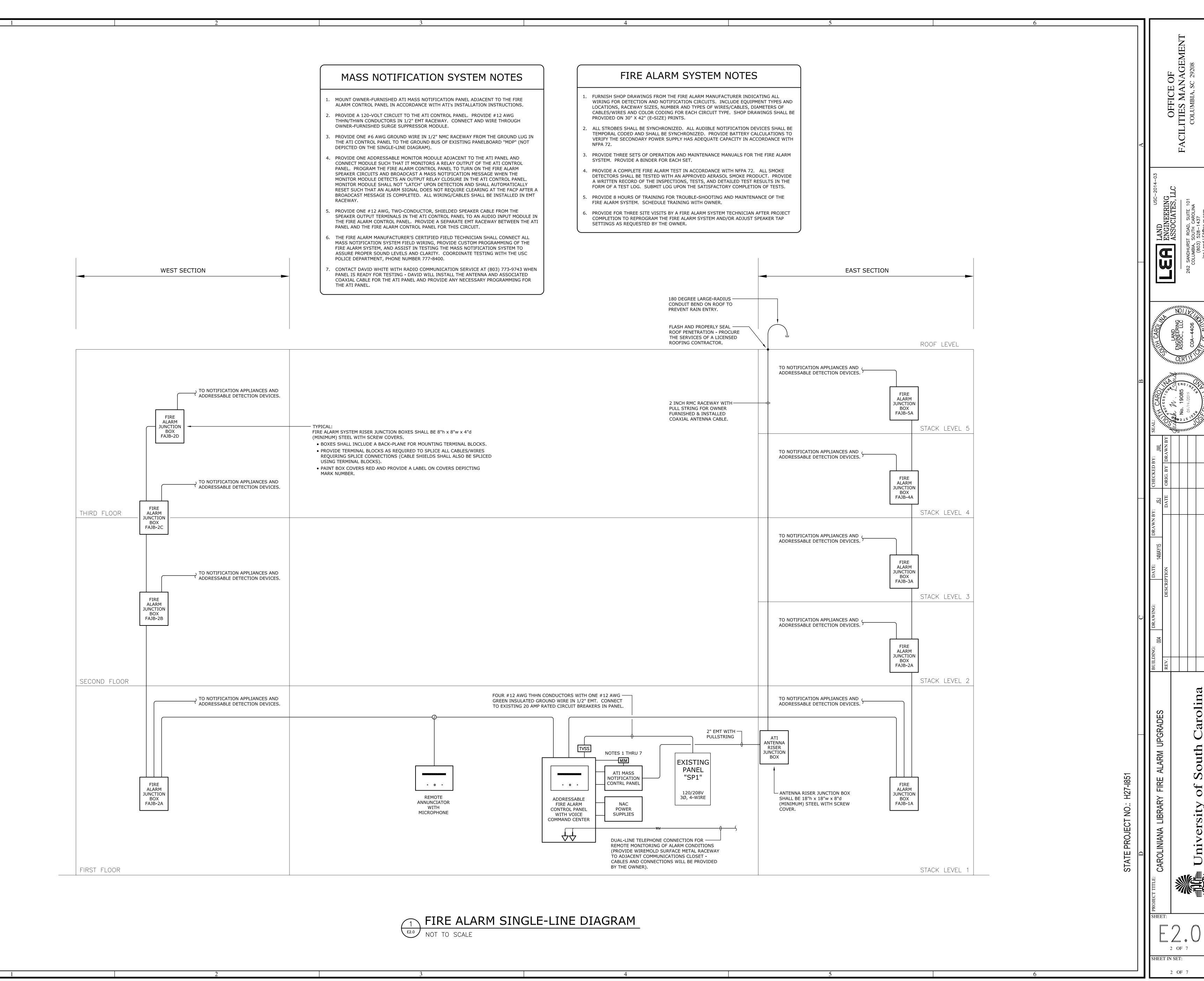
	ELECTRICAL LEGEND
	SURFACE MOUNTED CONTROL PANEL, TYPE AS NOTED ON PLAN.
	FLUSH MOUNTED CONTROL PANEL, TYPE AS NOTED ON PLAN.
→	RJ-31X COMMUNICATIONS PHONE JACK. MOUNT IN FIRE ALARM CABINET.
MIM	FIRE ALARM SYSTEM ADDRESSABLE MONITOR INTERFACE MODULE WITH CLASS "B" TYPE MONITOR WIRNG IN ACCORDANCE WITH NFPA 72. MOUNT MODULE IN A STEEL NEMA-1 ENCLOSURE.
RIM	FIRE ALARM SYSTEM ADDRESSABLE RELAY INTERFACE CONTROL MODULE. MOUNT MODULE IN A STEEL NEMA-1 ENCLOSURE.
F	FIRE ALARM MANUAL PULL STATION. SEMI-FLUSH MOUNT STATION IN WALL WITH TOP OF STATION AT 48 INCHES ABOVE FINISHED FLOOR. STATIONS SHOWN ON PLAN TO BE CONNECTED TO EXPOSED (EXP) EMT/CONDUIT OR WIREMOLD (WM) TYPE RACEWAY SHALL BE MOUNTED ON A CUSTOM SURFACE BOX (SEE GENERAL CONSTRUCTION NOTE 6 ON THIS DRAWING).
⑤	ADDRESSABLE PHOTO-ELECTRIC SMOKE DETECTOR - CEILING MOUNTED. DETECTORS SHOWN ON PLAN TO BE CONNECTED TO EXPOSED (EXP) EMT/CONDUIT OR WIREMOLD (WM) TYPE RACEWAY SHALL BE SURFACE MOUNTED ON A WIREMOLD #2338A-WH BOX (SEE GENERAL CONSTRUCTION NOTE 5 ON THIS DRAWING).
H	ADDRESSABLE 135 DEGREE HEAT DETECTOR WITH RATE-OF-RISE FEATURE - CEILING MOUNTED. DETECTORS SHOWN ON PLAN TO BE CONNECTED TO EXPOSED (EXP) EMT/CONDUIT OR WIREMOLD (WM) TYPE RACEWAY SHALL BE SURFACE MOUNTED ON A WIREMOLD #2338A-WH BOX (SEE GENERAL CONSTRUCTION NOTE 5 ON THIS DRAWING).
(D)	ADDRESSABLE PHOTO-ELECTRIC DUCT-TYPE SMOKE DETECTOR WITH SAMPLING TUBE. DETECTOR SHALL BE PROPERLY RATED FOR AIR FLOW IN DUCT SYSTEM. MOUNT TO DUCTWORK AND PROVIDE CUSTOM CONTROL WIRING TO SHUTDOWN AIR HANDLING UNIT FAN. MODIFY EXISTING DUCT INSULATION AS REQUIRED TO INSTALL DETECTOR. A SUPERVISORY ALARM SHALL BE INDICATED AT THE FIRE ALARM CONTROL PANEL WHEN DETECTOR IS ACTIVATED.
®	ISOLATION RELAY TO INTERFACE WITH AIR HANDLING UNIT SHUTDOWN CONTROLS. PROVIDE A NEMA 1 ENCLOSURE TO HOUSE RELAY.
₽₹	REMOTE TEST AND INDICATING STATION FOR DUCT-TYPE SMOKE DETECTOR. WALL MOUNT STATION AT 60 INCHES ABOVE FINISHED FLOOR.
\Diamond	REMOTE TEST AND INDICATING STATION FOR DUCT-TYPE SMOKE DETECTOR. MOUNT STATION CENTERED IN A CEILING TILE BELOW AND IN CLOSE PROXIMITY TO THE DUCT DETECTOR.
⊢ T)	ADDRESSABLE BEAM-TYPE SMOKE DETECTOR TRANSMITTER WITH INTEGRAL NFPA SENSITIVITY TEST FEATURE (SYSTEM SENSOR #BEAM200S OR EQUAL). SEMI-FLUSH MOUNT TRANSMITTER ON WALL - SEE DETAILS 1 AND 2 ON THIS DRAWING FOR PLACEMENT).
HR	ADDRESSABLE BEAM-TYPE SMOKE DETECTOR REFLECTOR (SYSTEM SENSOR #BEAM200S OR EQUAL). SURFACE MOUNT REFLECTOR ON WALL ALIGNED WITH TRANSMITTER - SEE DETAILS 1 AND 2 ON THIS DRAWING FOR PLACEMENT).
⊢ TB	REMOTE TEST AND INDICATING STATION FOR BEAM-TYPE SMOKE DETECTOR (SYSTEM SENSOR #RTS451/RTS151 OR EQUAL).
A	AUDIBLE (SPEAKER) NOTIFICATION APPLIANCE. SEMI-FLUSH MOUNT APPLIANCE IN CEILING. APPLIANCES SHOWN ON PLAN TO BE CONNECTED TO EXPOSED (EXP) EMT/CONDUIT OR WIREMOLD (WM) TYPE RACEWAY SHALL BE MOUNTED ON A CUSTOM SURFACE BOX (SEE GENERAL CONSTRUCTION NOTE 6 ON THIS DRAWING).
V 15cd	VISIBLE (STROBE) NOTIFICATION APPLIANCE, CEILING MOUNTED. SEMI-FLUSH MOUNT APPLIANCE IN CEILING. APPLIANCES SHOWN ON PLAN TO BE CONNECTED TO EXPOSED (EXP) EMT/CONDUIT OR WIREMOLD (WM) TYPE RACEWAY SHALL BE MOUNTED ON A CUSTOM SURFACE BOX (SEE GENERAL CONSTRUCTION NOTE 6 ON THIS DRAWING). PROVIDE APPLIANCE WITH STROBE CANDELA RATING NOTED ON PLAN.
<u>^</u> √√15cd	COMBINATION AUDIBLE/VISIBLE (SPEAKER & STROBE) NOTIFICATION APPLIANCE, CEILING MOUNTED. SEMI-FLUSH MOUNT APPLIANCE IN CEILING. APPLIANCES SHOWN ON PLAN TO BE CONNECTED TO EXPOSED (EXP) EMT/CONDUIT OR WIREMOLD (WM) TYPE RACEWAY SHALL BE MOUNTED ON A CUSTOM SURFACE BOX (SEE GENERAL CONSTRUCTION NOTE 6 ON THIS DRAWING). PROVIDE APPLIANCE WITH STROBE CANDELA RATING NOTED ON PLAN.
F 15cd	COMBINATION AUDIBLE/VISIBLE (SPEAKER & STROBE) NOTIFICATION APPLIANCE, SAME AS DESCRIBED ABOVE EXCEPT DEVICE SHALL BE WALL MOUNT TYPE. APPLIANCES SHOWN ON PLAN TO BE CONNECTED TO EXPOSED (EXP) EMT/CONDUIT OR WIREMOLD (WM) TYPE RACEWAY SHALL BE MOUNTED ON A CUSTOM SURFACE BOX (SEE GENERAL CONSTRUCTION NOTE 6 ON THIS DRAWING).
F A 15cd WP	COMBINATION AUDIBLE/VISIBLE (SPEAKER & STROBE) NOTIFICATION APPLIANCE, SAME AS WALL-MOUNT TYPE DESCRIBED ABOVE EXCEPT DEVICE SHALL BE WEATHERPROOF. PROVIDE A CUSTOM, GASKETED CAST-METAL BACKBOX TO SURFACE MOUNT APPLIANCE ON WALL.
o	STEEL JUNCTION BOX WITH COVER, SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. MOUNT ABOVE ACCESSIBLE CEILINGS WHERE APPLICABLE. FLUSH MOUNT IN NON-ACCESSIBLE CEILINGS WHERE APPLICABLE.
Ю	STEEL JUNCTION BOX WITH COVER, SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, WALL MOUNTED.
 ww	JUNCTION BOX WITH BLANK WHITE COVER, WIREMOLD #2348-WH. SURFACE MOUNT BOX ON CEILING.
⊢ ⊕ wm	JUNCTION BOX WITH BLANK WHITE COVER, WIREMOLD #2348-WH. SURFACE MOUNT BOX ON WALL AT APPROPRIATE HEIGHT.
	EMT RACEWAY WITH COMPRESSION TYPE FITTINGS - INSTALL CONCEALED IN WALLS AND ABOVE CEILINGS, AS APPLICABLE. INSTALL HORIZONTAL RACEWAYS TIGHT TO STRUCTURAL CEILINGS.
——ЕХР——	EMT RACEWAY WITH COMPRESSION TYPE FITTINGS - INSTALL EXPOSED ON WALLS AND CEILINGS, AS APPLICABLE. INSTALL HORIZONTAL RACEWAYS TIGHT TO STRUCTURAL CEILINGS.
——	WIREMOLD #2300 SURFACE RACEWAY SYSTEM. PROVIDE ALL FITTINGS AND HARDWARE REQUIRED FOR A COMPLETE AND AESTHETICALLY PLEASING SURFACE RACEWAY SYSTEM INSTALLATION. RIGIDLY MOUNT RACEWAY SYSTEM TO WALLS AND CEILINGS WITH METAL FASTENERS (DOUBLE-BACK TAPE SHALL NOT BE USED) AS APPLICABLE. WIREMOLD BOXES OR ENTRANCE-END FITTINGS SHALL BE PROVIDED ON BOTH SIDES OF WALLS (WITH EMT OR RMC CHASE NIPPLES IN-BETWEEN) WHERE FIRESTOPPING IS REQUIRED.
	EXISTING ELECTRICAL PANELBOARD - TO REMAIN IN PLACE.
	EXISTING FIRE ALARM SYSTEM PANEL - REMOVE PANEL AND ALL ASSOCIATED RACEWAY AND WIRING.
FR	EXISTING FIRE ALARM MANUAL PULL STATION - REMOVE STATION AND ALL ASSOCIATED RACEWAY AND WIRING. PROVIDE A CUSTOM-SIZE BLANK, WHITE, PHENOLIC WALLPLATE TO FULLY COVER EXISTING OPENING IN WALL. MOUNTING SCREWS SHALL BE PAINTED MATCH COLOR OF WALLPLATE.
⟨S⟩ _R	EXISTING FIRE ALARM SMOKE DETECTOR - REMOVE DETECTOR AND ALL ASSOCIATED RACEWAY AND WIRING. PROVIDE A CUSTOM-SIZE BLANK, ROUND, WHITE, PHENOLIC WALLPLATE TO FULLY COVER EXISTING OPENING IN CEILING. MOUNTING SCREWS SHALL BE PAINTED MATCH COLOR OF WALLPLATE.
$\left\langle \mathbb{H} \right\rangle_{R}$	EXISTING FIRE ALARM HEAT DETECTOR - REMOVE DETECTOR AND ALL ASSOCIATED RACEWAY AND WIRING. PROVIDE A CUSTOM-SIZE BLANK, ROUND, WHITE, PHENOLIC WALLPLATE TO FULLY COVER EXISTING OPENING IN CEILING. MOUNTING SCREWS SHALL BE PAINTED MATCH COLOR OF WALLPLATE.
(D _E	EXISTING DUCT-TYPE SMOKE DETECTOR - TO REMAIN IN PLACE (DUE TO NOT BEING ACCESSIBLE). REMOVE ALL ASSOCIATED RACEWAY AND WIRING. PROVIDE A SIGN OVER DETECTOR THAT READS "NOT IN SERVICE).
$\left\langle \mathbb{D}\right\rangle _{R}$	EXISTING DUCT-TYPE SMOKE DETECTOR - REMOVE AND REPLACE WITH NEW DUCT-TYPE SMOKE DETECTOR.

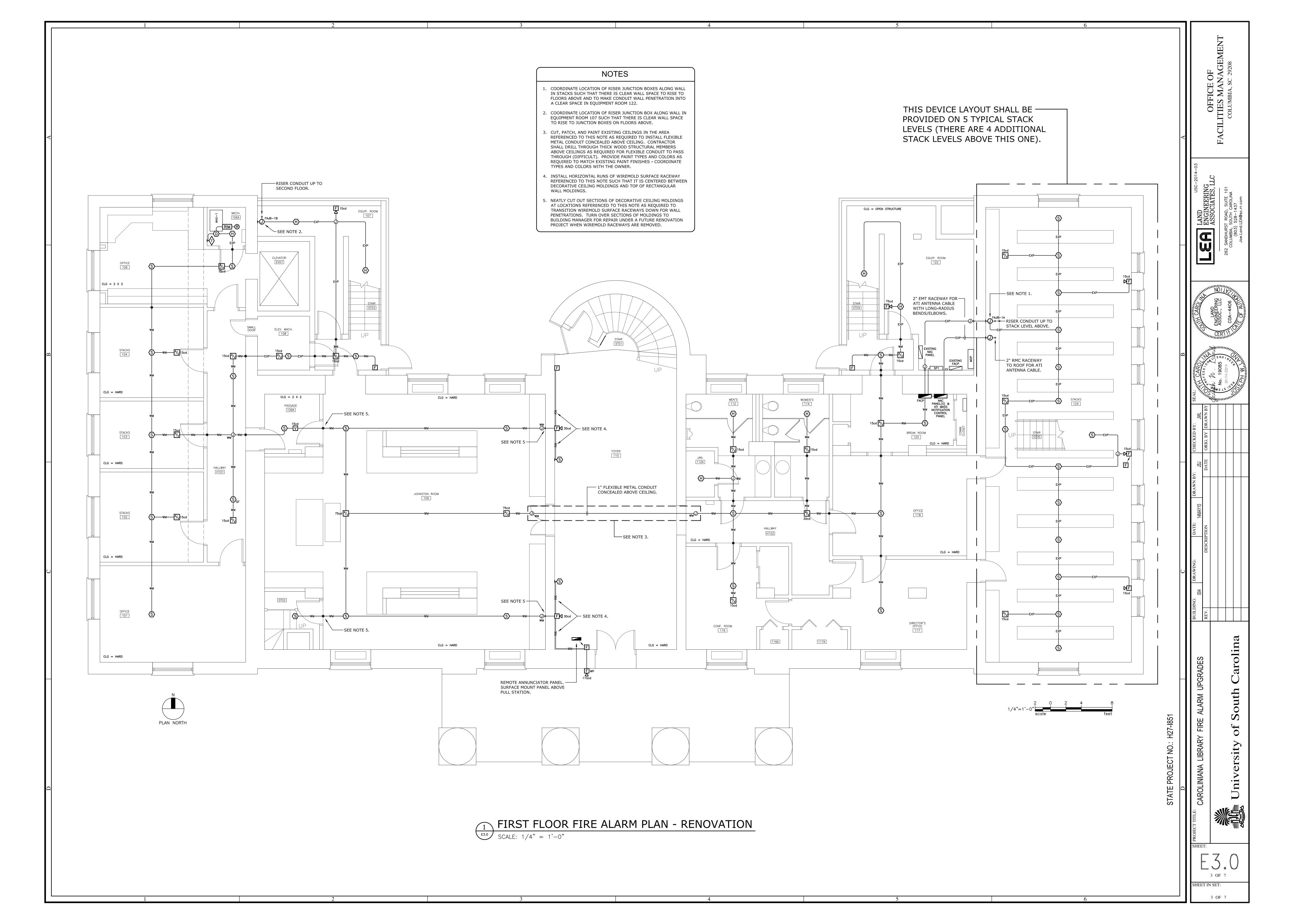
COLOR OF WALLPLATE.

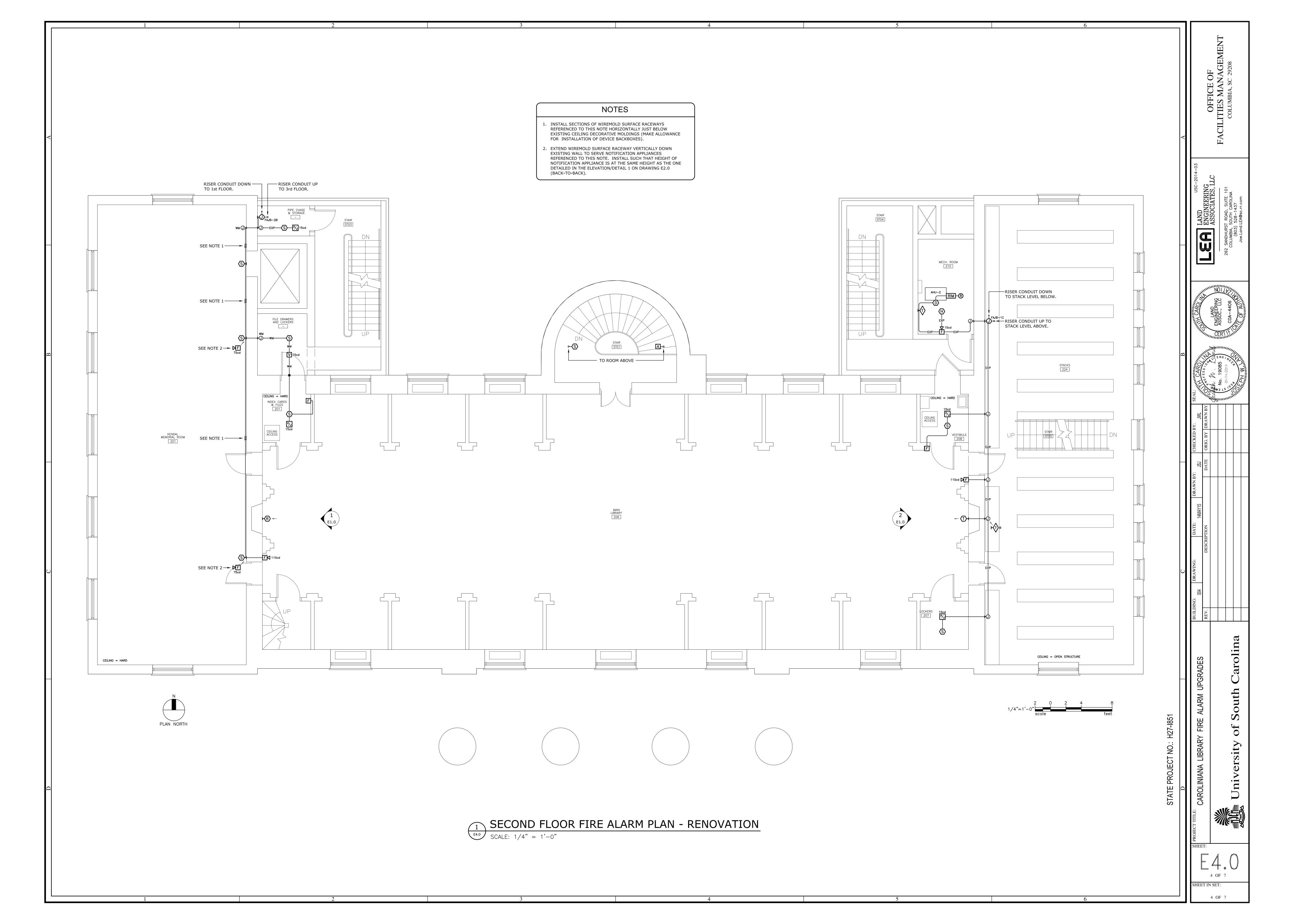
EXISTING FIRE ALARM NOTIFICATION APPLIANCE - REMOVE APPLIANCE AND ALL ASSOCIATED RACEWAY AND WIRING. PROVIDE A CUSTOM-SIZE

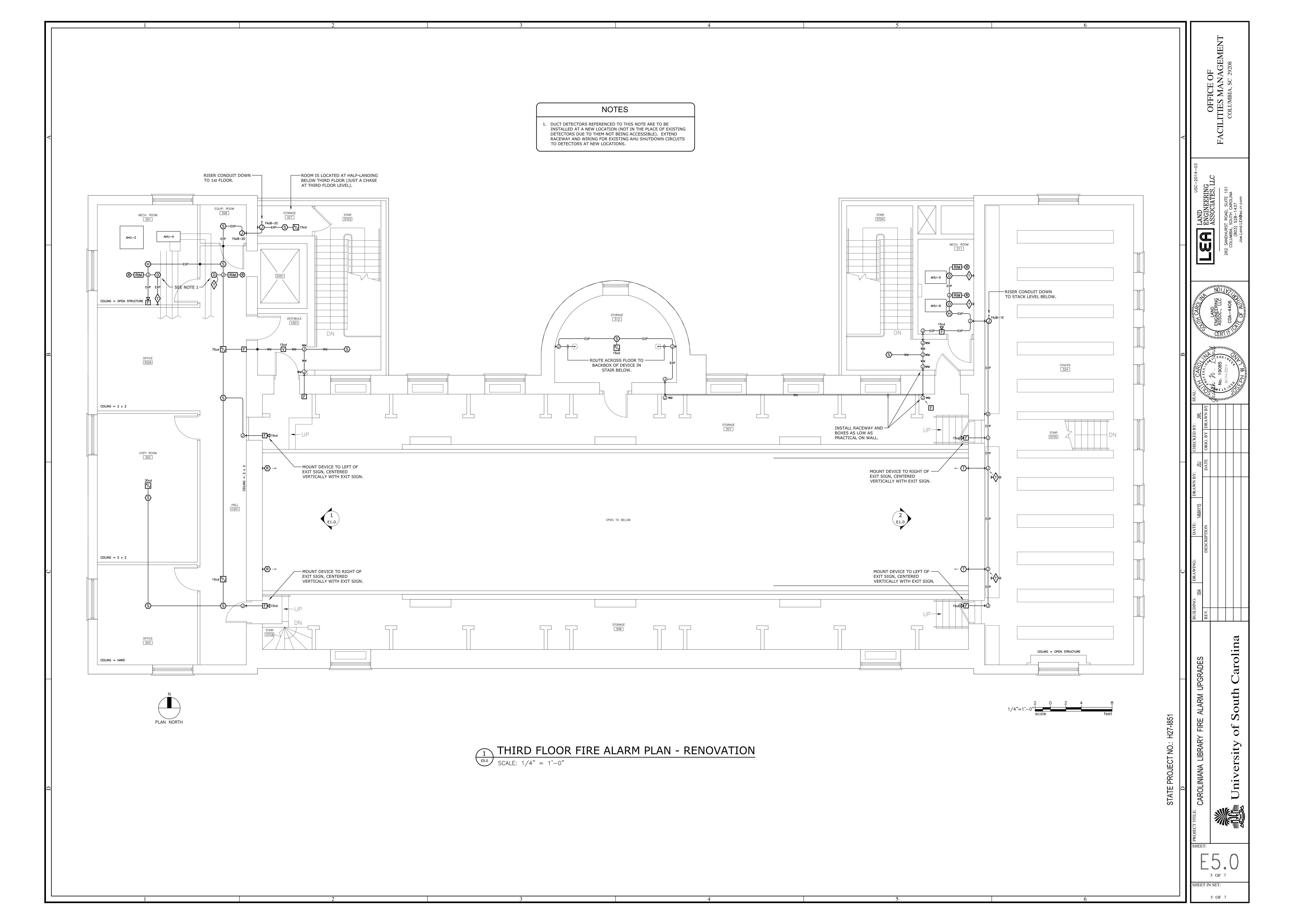
BLANK, WHITE, PHENOLIC WALLPLATE TO FULLY COVER EXISTING OPENING IN WALL. MOUNTING SCREWS SHALL BE PAINTED MATCH

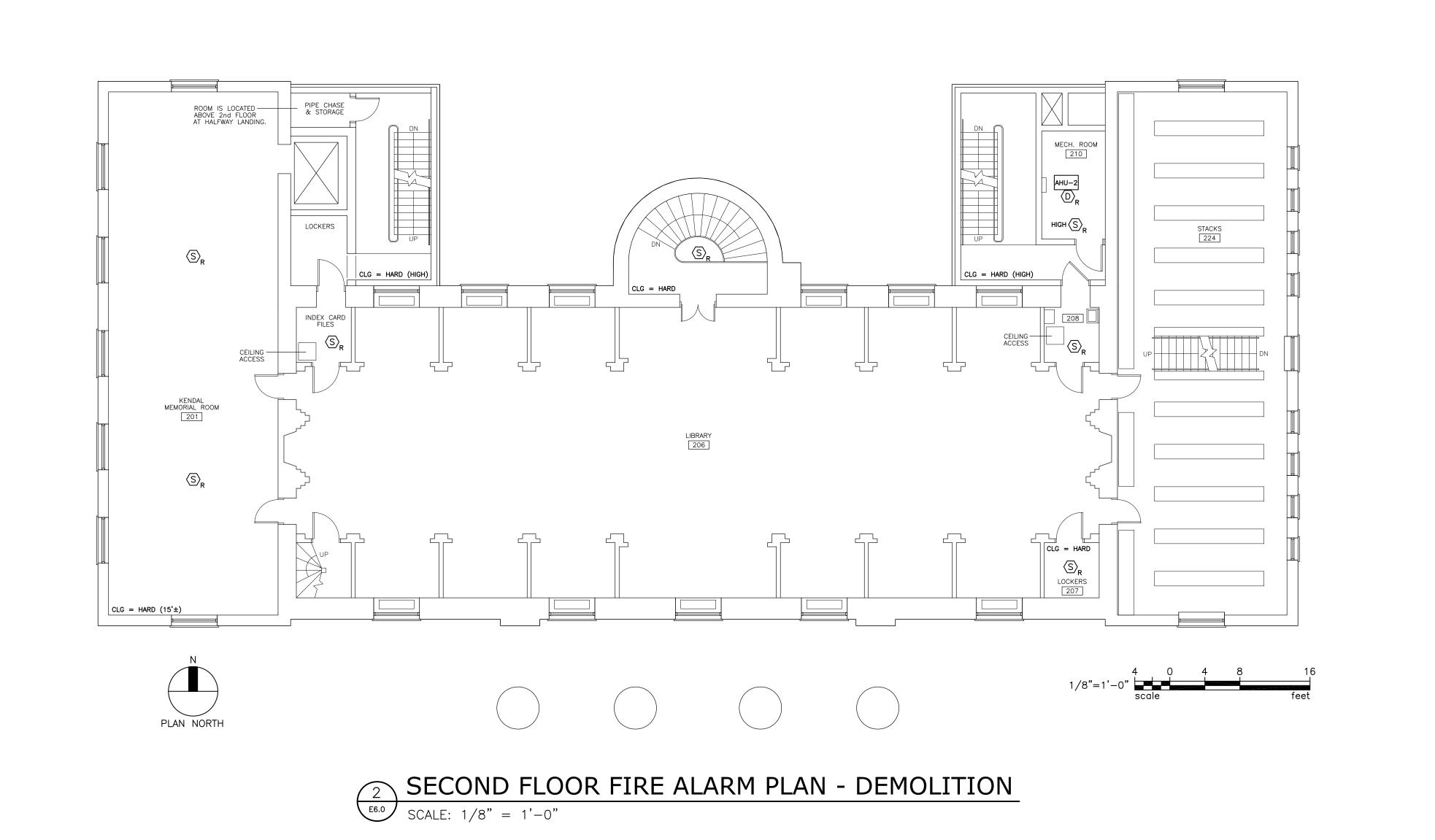
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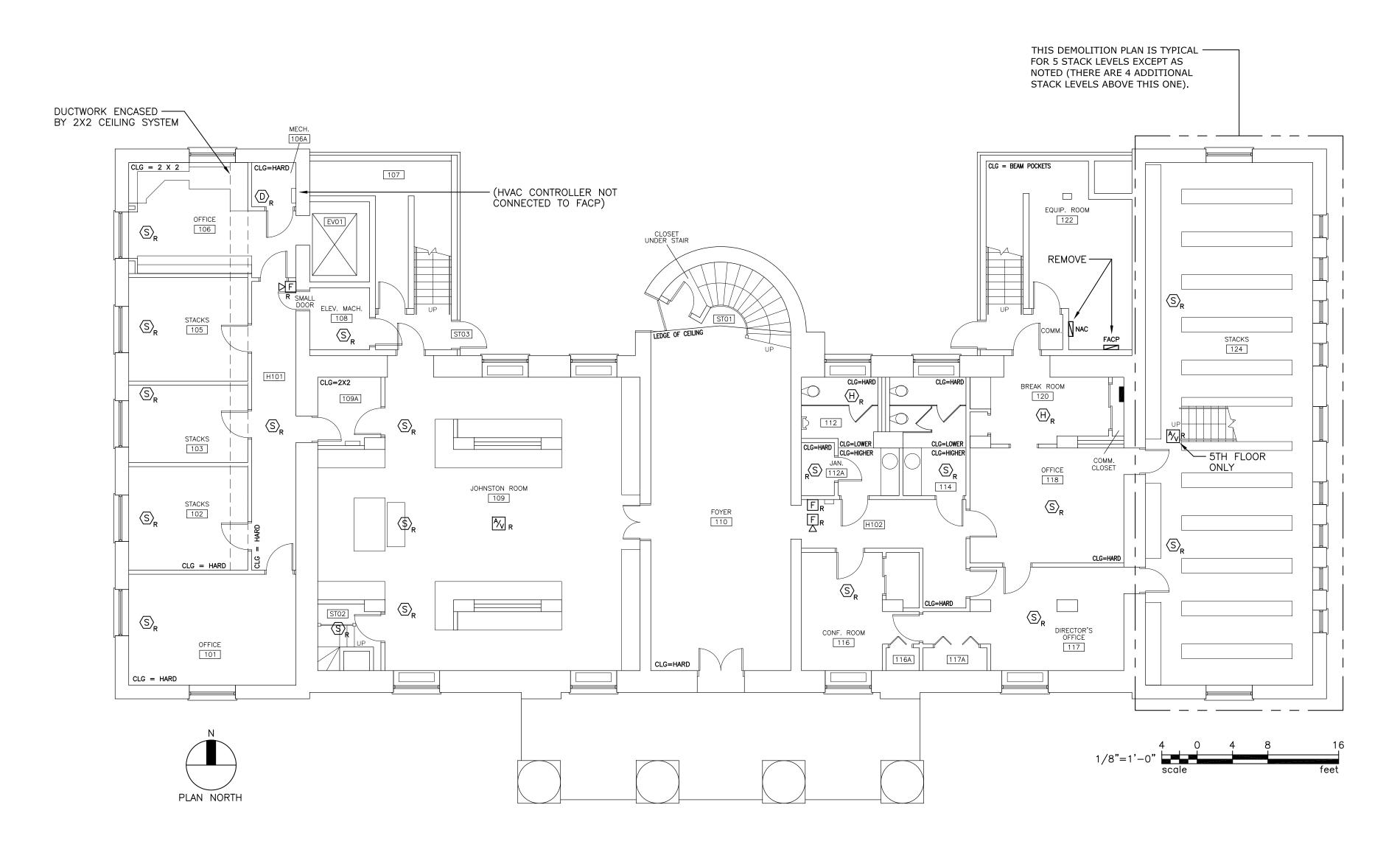












FIRST FLOOR FIRE ALARM PLAN - DEMOLITION

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

CAROLINIANA LIBRARY FIRE ALARM UPGRADES

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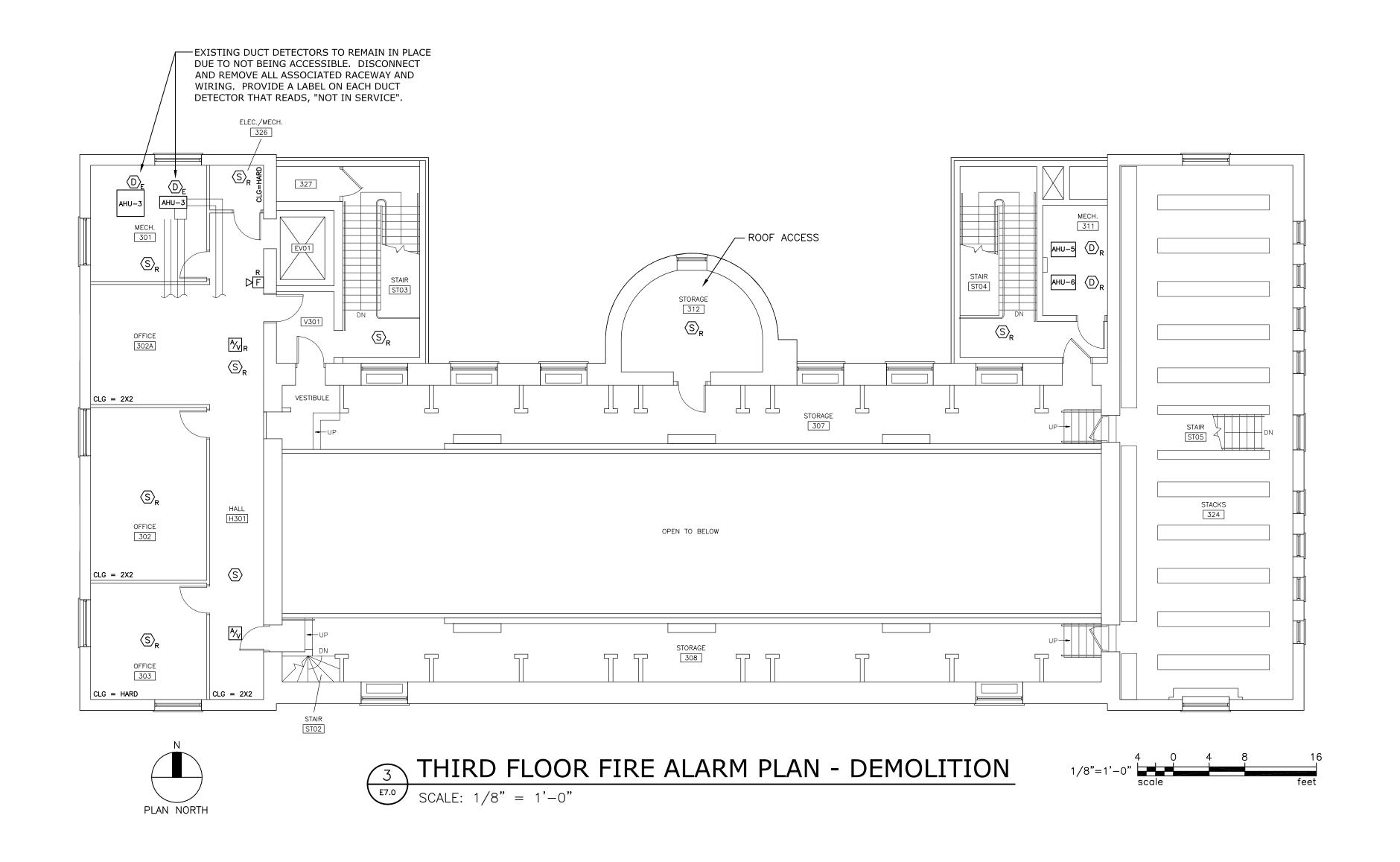
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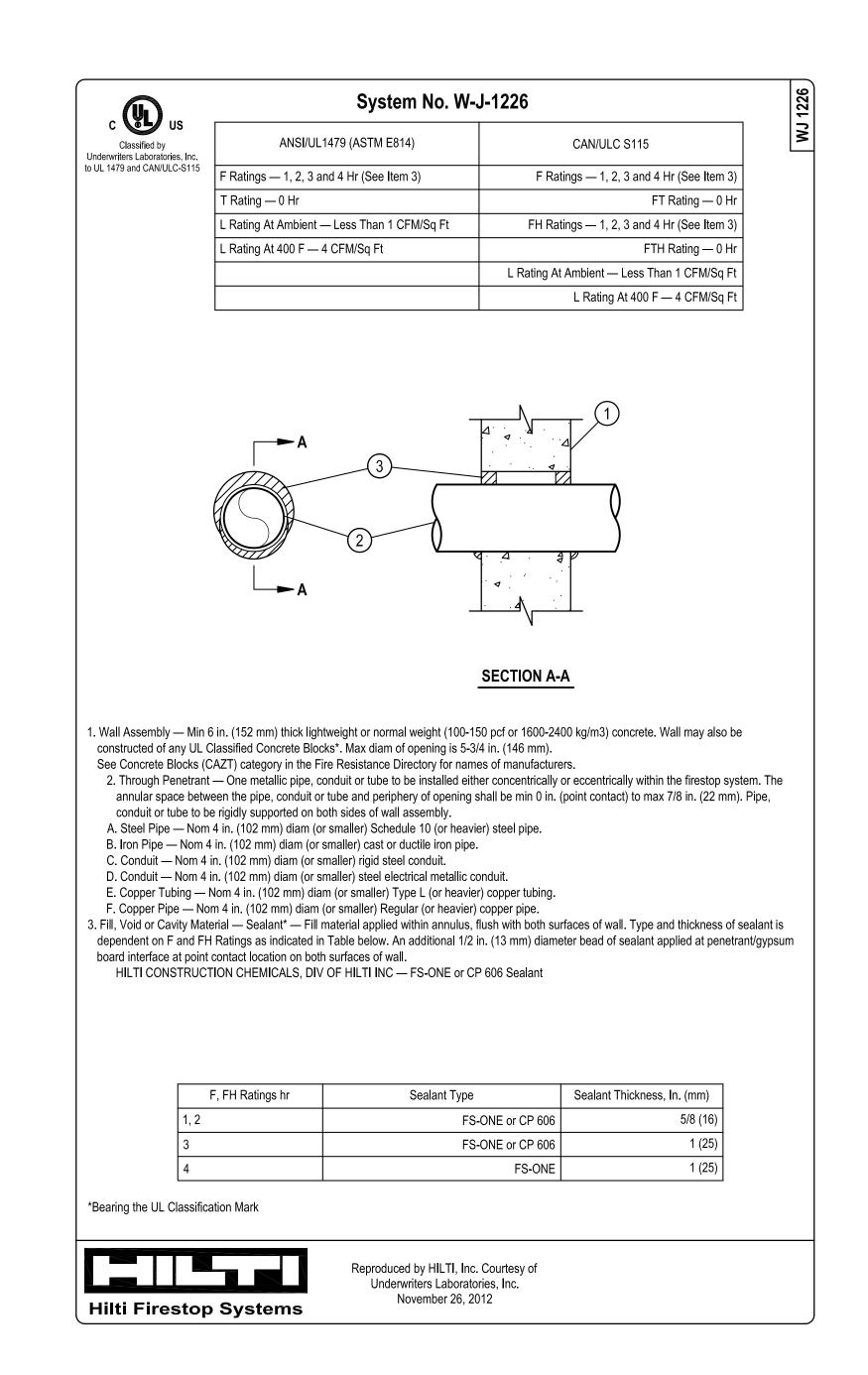
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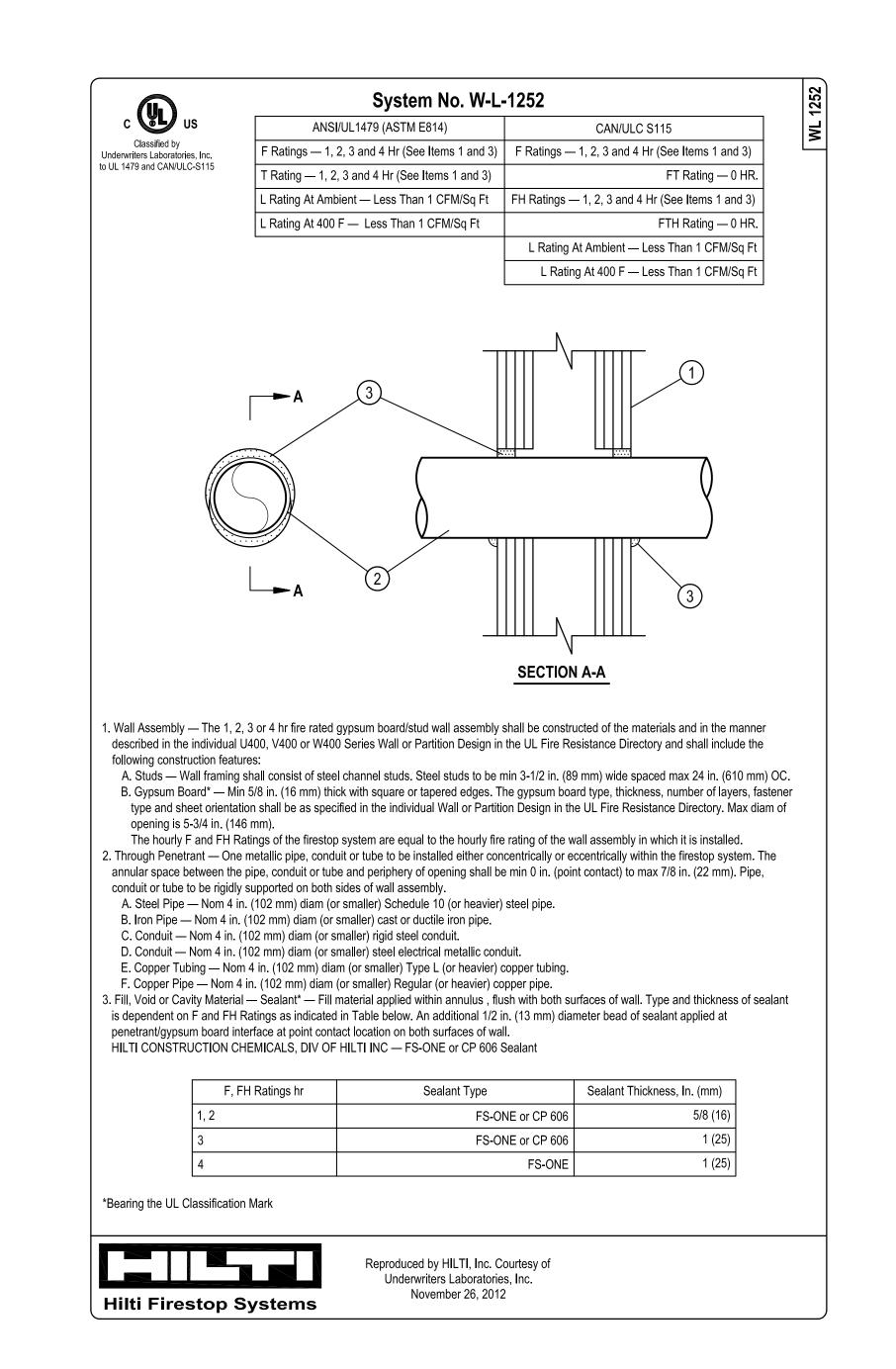
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FIRESTOP DETAIL - CONCRETE NOT TO SCALE