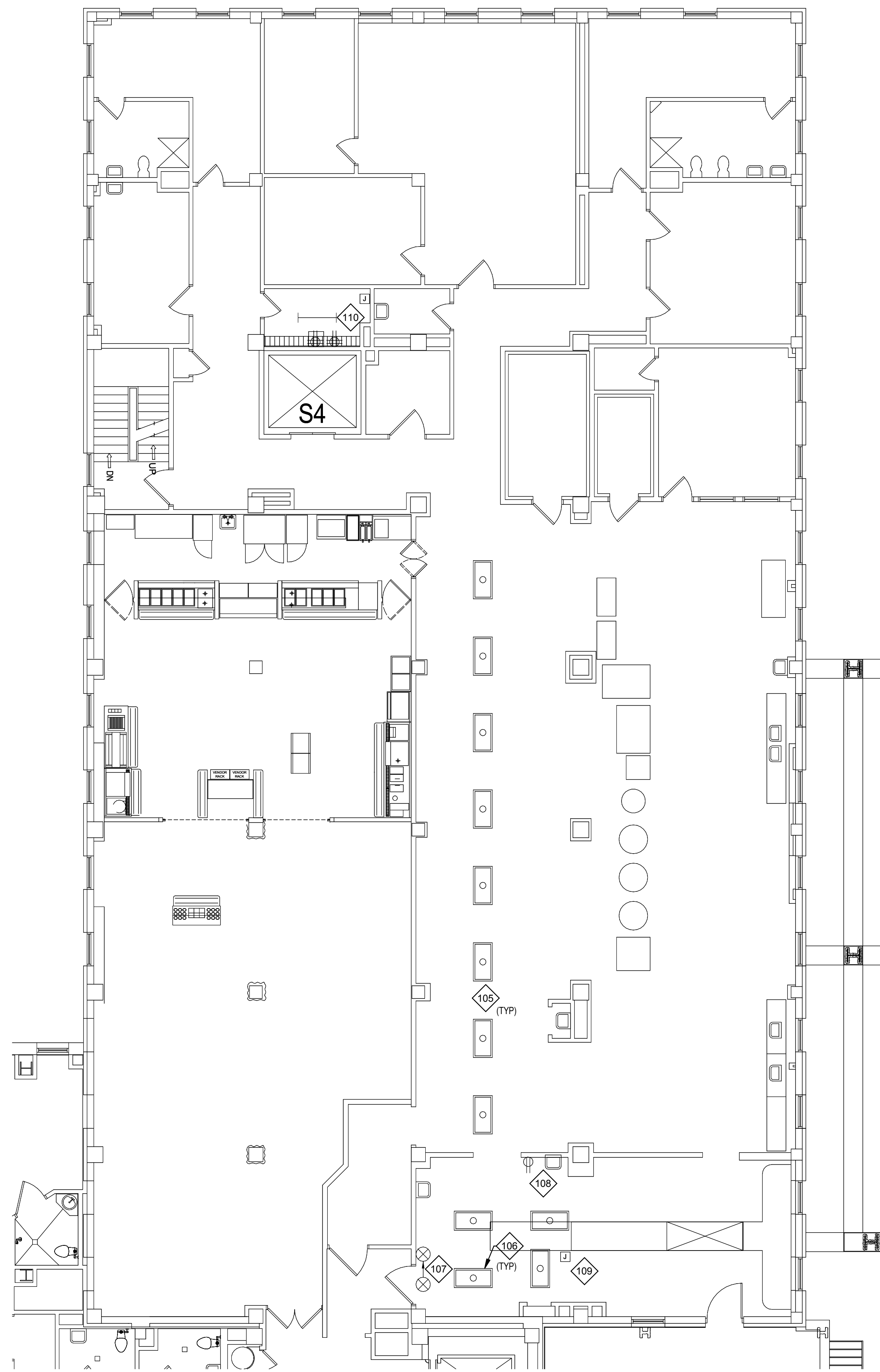


GENERAL NOTES

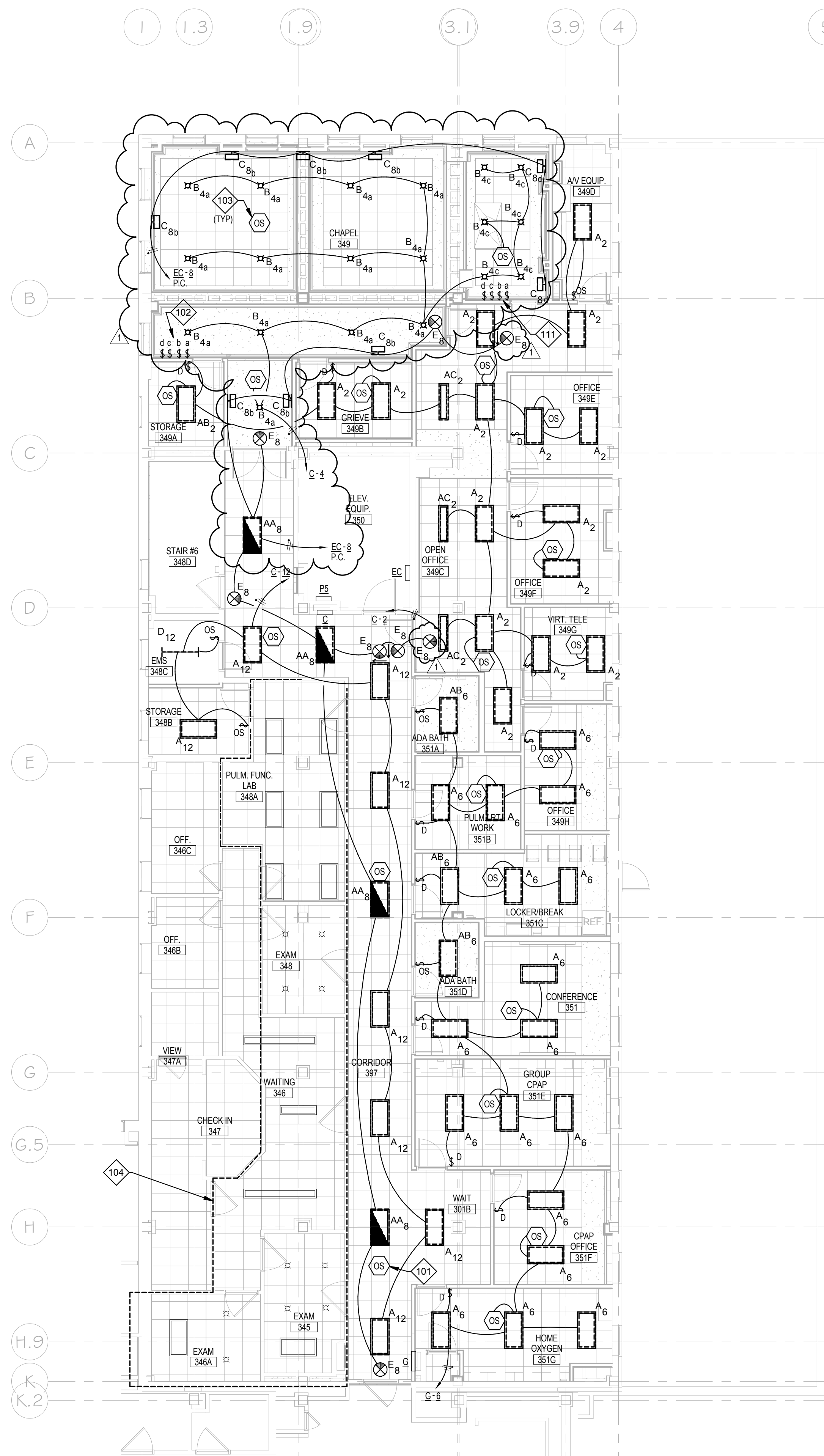
- #10 AWG CONDUCTORS SHALL BE USED THROUGHOUT THE HOMERUN CONDUIT UNTIL THE FIRST LIGHTING LOAD FOR EACH CIRCUIT IS CONNECTED TO THE HOMERUN CONDUCTORS.
- LIGHTING SWITCHES ON OPPOSITE SIDE OF PARTITIONS TO BE SEPARATED LATERALLY WITH A STUD BETWEEN THEM TO CONTROL SOUND TRANSMISSION.
- ALL PENETRATIONS THROUGH FIRE-RATED WALLS OR FLOORS TO PRESERVE RATINGS OF THE WALL OR FLOOR.
- SHADED FIXTURES (DALS, DOWNLIGHTS) IN CORRIDORS TO BE ON EMERGENCY POWER CIRCUIT AND TO FUNCTION AS A NIGHT LIGHT.
- MOUNT EXIT SIGNS TO WALLS WHENEVER POSSIBLE. CEILING MOUNTING OF EXIT SIGNS SHOULD BE BY EXCEPTION, WHERE THERE IS NO PRACTICAL WALL AVAILABLE.

KEYED NOTES

- ACTIVATION OF ANY OCCUPANCY SENSOR IN CORRIDOR TO TURN ON ALL LIGHTS IN CORRIDOR.
- PROVIDE (4) WALL BOX DIMMING SWITCHES IN CHAPEL FOR LIGHTS, (A) FOR SEATING AREA, (B) FOR SEATING AREA SCONES, (C) FOR ALTAR AREA, (D) FOR ALTAR SCONES.
- ACTIVATION OF ANY OCCUPANCY SENSOR IN CHAPEL TO TURN ON ALL TYPE B LIGHTS IN CHAPEL. TYPE C LIGHTS TO BE ON 24/7 FOR CHAPEL OPERATION.
- REINSTALL EXISTING LIGHTS IN SAME LOCATIONS AND RECONNECT TO EXISTING CIRCUITRY AFTER VAV COILS ARE REPLACED IN RESPIRATORY CARE AREA.
- REMOVE AND REINSTALL EXISTING LIGHTS TO FACILITATE CEILING REMOVAL AND REINSTALLATION FOR PLUMBING WORK. TEMPORARILY SUPPORT LIGHTS IN PLACE WHILE CEILING IS GONE TO MAINTAIN FACILITY OPERATION.
- REMOVE EXISTING LIGHTING FIXTURES AND REINSTALL IN LOWERED CEILING IN DISHWASHING ROOM. EXTEND CIRCUITRY AS REQUIRED.
- RELOCATE EXISTING EXIT SIGN ADJACENT TO DOORFRAME TO ACCOMMODATE LOWERED CEILING. EXTEND CIRCUITRY AS REQUIRED.
- RELOCATE EXISTING RECEPTACLE TO ACCOMMODATE LOWERED CEILING. EXTEND CIRCUITRY AS REQUIRED.
- ADJUST HEIGHT OF EXISTING JUNCTION BOX AS REQUIRED TO SUIT LOWERED CEILING. RE-SUPPORT BOX AND EXTEND CIRCUITRY AS REQUIRED.
- REMOVE EXISTING LIGHT FIXTURE FOR REMOVAL OF CEILING. EXISTING CIRCUITRY TO REMAIN FOR REUSE. PROVIDE NEW TYPE 'D' LIGHT FIXTURE CHAIN HUNG AT 10' AFF. CONNECT TO EXISTING CIRCUITRY.
- PROVIDE (4) 3-WAY SWITCHES FOR CONTROL OF CHAPEL LIGHTS IN CONJUNCTION WITH CEILING OCCUPANCY SENSORS AND DIMMING SWITCHES.



PLAN NORTH
SECOND FLOOR LIGHTING PLAN
 1/8" = 1'-0"
 0 4' 8' 16'



PLAN NORTH
THIRD FLOOR LIGHTING PLAN
 1/8" = 1'-0"
 0 4' 8' 16'

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FINAL SUBMITTAL
 FOR CONSTRUCTION

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SECOND & THIRD FLOOR LIGHTING PLANS

Approved: Project Director
 Approver

Project Title
VA HEALTH CARE SYSTEM

Location
 VAS 438-16-104 BLDG. 5 CHAPEL
 SIOUX FALLS, SD 57105

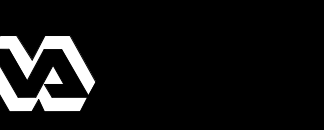
Project Number
 438-16-104 2016.052

Building Number
 5

Drawing Number
E-101

Scale: As indicated

Owner



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 one quarter inch = one foot
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 one inch = one foot
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 three inches = one foot
 six inches = one foot
 one foot = one foot

VA FORM 08-6231

GENERAL NOTES

- FIRESTOP ALL PENETRATIONS THROUGH FIRE-RATED WALLS OR FLOORS TO PRESERVE RATING.
- SYNCHRONIZE STROBES IN ALL AREAS IN ACCORDANCE WITH NFPA 72.
- THESE WORK PLANS ARE TO BE CONSIDERED DIAGRAMMATIC AND REFLECT GENERAL ORDER OF MAGNITUDE. FINAL DESIGN, CALCULATIONS, AND ALL ELEMENTS NECESSARY FOR A COMPLETE SYSTEM ARE THE RESPONSIBILITY OF THE CONTRACTOR. QUANTITIES OF COMPONENTS AND FINAL WIRING SHALL BE VERIFIED WITH THE FIRE ALARM SYSTEM SUPPLIER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL ADDITIONAL POWER SUPPLIES, CONTROL MODULES, MONITOR MODULES, WIRE SIZE, WIRE QUANTITY, ETC., FOR A COMPLETE SYSTEM IN ACCORDANCE WITH THE APPLICABLE CODES, DESIGN DOCUMENTS, AND SPECIFICATIONS.
- ALL WORK SHALL CONFORM TO THE NATIONAL FIRE CODES (NFC), NFPA 70, NFPA 72, NFPA 101, THE VA FIRE PROTECTION DESIGN MANUAL, AND ADDITIONAL REFERENCED CODES AND STANDARDS.
- FINALIZED DUCT DETECTOR LOCATIONS SHALL BE COORDINATED WITH THE MECHANICAL CONTRACTOR.
- WHERE A DUCT SMOKE DETECTOR IS LOCATED ABOVE A CEILING OR IN A DIFFICULT TO REACH LOCATION, PROVIDE A REMOTE INDICATING LAMP AND A TEST KEY SWITCH ON NEARBY WALL AT 7 FEET ABOVE THE FINISHED FLOOR TO FACILITATE TESTING.
- SPRINKLER FLOW AND TAMPER SWITCHES SHALL HAVE REMOTE INDICATOR LIGHTS WITH LABELED IDENTIFICATIONS LOCATED IN NEAREST CEILING ACCESSIBLE TO THE PUBLIC OR AS DIRECTED BY OWNER.
- CONTROL MODULES AND MONITOR MODULES ARE NOT ALL SHOWN ON FLOOR PLANS. PROVIDE FINAL LOCATIONS AND QUANTITIES WITH SHOP DRAWINGS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING MONITOR MODULES FOR ALL TAMPER AND FLOW SWITCHES. COORDINATE EXACT QUANTITY WITH SPRINKLER CONTRACTOR.
- ALL FIRE ALARM WIRING SHALL BE INSTALLED IN METAL RACEWAY SEPARATE FROM ALL OTHER SYSTEMS IN ACCORDANCE WITH VA FIRE PROTECTION DESIGN MANUAL, PARAGRAPH 7.2.D.
- CIRCUITS IN THE RENOVATED AREA SHALL MATCH THE EXISTING SYSTEM. WIRING FOR FIRE ALARM SYSTEM SHALL BE SPECIFIED AND DEFINED IN NFPA 72 AS FOLLOWS: INITIATING DEVICE CIRCUITS (IDCI), CLASS B; SIGNALING LINE CIRCUITS (SLC), CLASS B; NOTIFICATION APPLIANCE CIRCUITS (NAC), CLASS B.
- NOTIFICATION APPLIANCES SHALL BE MOUNTED IN ACCORDANCE WITH NFPA 72 AND ACCESSIBILITY REQUIREMENTS. WALL MOUNTED VISUAL APPLIANCES (STROBES) SHALL BE MOUNTED SO THAT THE LENS IS A MINIMUM OF 80 INCHES ABOVE THE FLOOR OR A MINIMUM OF 8 INCHES FROM THE CEILING, WHICHEVER IS LOWER. CEILING MOUNTED VISUAL APPLIANCES SHALL COMPLY WITH NFPA 72.
- MANUAL PULL STATIONS SHALL BE MOUNTED SO THAT THE OPERATING MECHANISM IS LOCATED 42" TO 48" AFF.
- PROVIDE END OF LINE RESISTORS AS REQUIRED PER NFPA 70, NFPA 72, AND MANUFACTURER REQUIREMENTS.
- SEE SHEET E-301 FOR FIRE ALARM SYSTEM DETAILS.
- THE EXISTING FIRE ALARM CONTROL PANEL (NOTIFIER 303 VOICE SYSTEM) SHALL REMAIN IN SERVICE AND THE COMPONENTS IN THE RENOVATED AREA SHALL BE CONNECTED TO THE EXISTING FACP.
- CONTRACTOR SHALL INCLUDE A MATRIX ON THE SHOP DRAWINGS INDICATING THE INTENDED OPERATION OF THE SYSTEM. THE PROGRAMMING OF THE EXISTING FIRE ALARM CONTROL PANEL (NOTIFIER 303 VOICE SYSTEM) SHALL BE MODIFIED AS NEEDED TO ACCOMMODATE THE CHANGES TO THE SYSTEM IN THE RENOVATED AREA. CONTRACTOR SHALL MATCH THE GENERAL OPERATIONAL FEATURES AND REPORTING ZONES OF THE EXISTING SYSTEM.
- ANY NEW DEVICE LOCATIONS ON EXISTING MASONRY WALLS WHICH ARE NOT BEING FLURRED OUT SHALL BE SERVED USING DECORATIVE METALLIC SURFACE RACEWAY, PAINTED TO MATCH WALLS.

KEYED NOTES

- 331 PROVIDE NEW REMOTE POWER SUPPLY IN ROOM 348C.
- 332 NOT USED.
- 333 NOT USED.
- 334 NO FIRE ALARM WORK IN ELEVATOR EQUIPMENT ROOM.
- 335 COORDINATE LOCATIONS AND INSTALLATION OF DUCT DETECTORS WITH MECHANICAL CONTRACTOR.
- 336 NO FIRE ALARM WORK IN RESPIRATORY CARE AREA.

APPLICABLE CODES AND STANDARDS

VA FIRE PROTECTION DESIGN MANUAL - U.S. DEPARTMENT OF VETERANS AFFAIRS, SEVENTH EDITION (DECEMBER 2015)

NFC - NATIONAL FIRE CODES, PUBLISHED BY NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

NFPA 70 - NATIONAL ELECTRICAL CODE (2017 EDITION)

NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE (2016 EDITION)

NFPA 101 - LIFE SAFETY CODE (2015 EDITION)

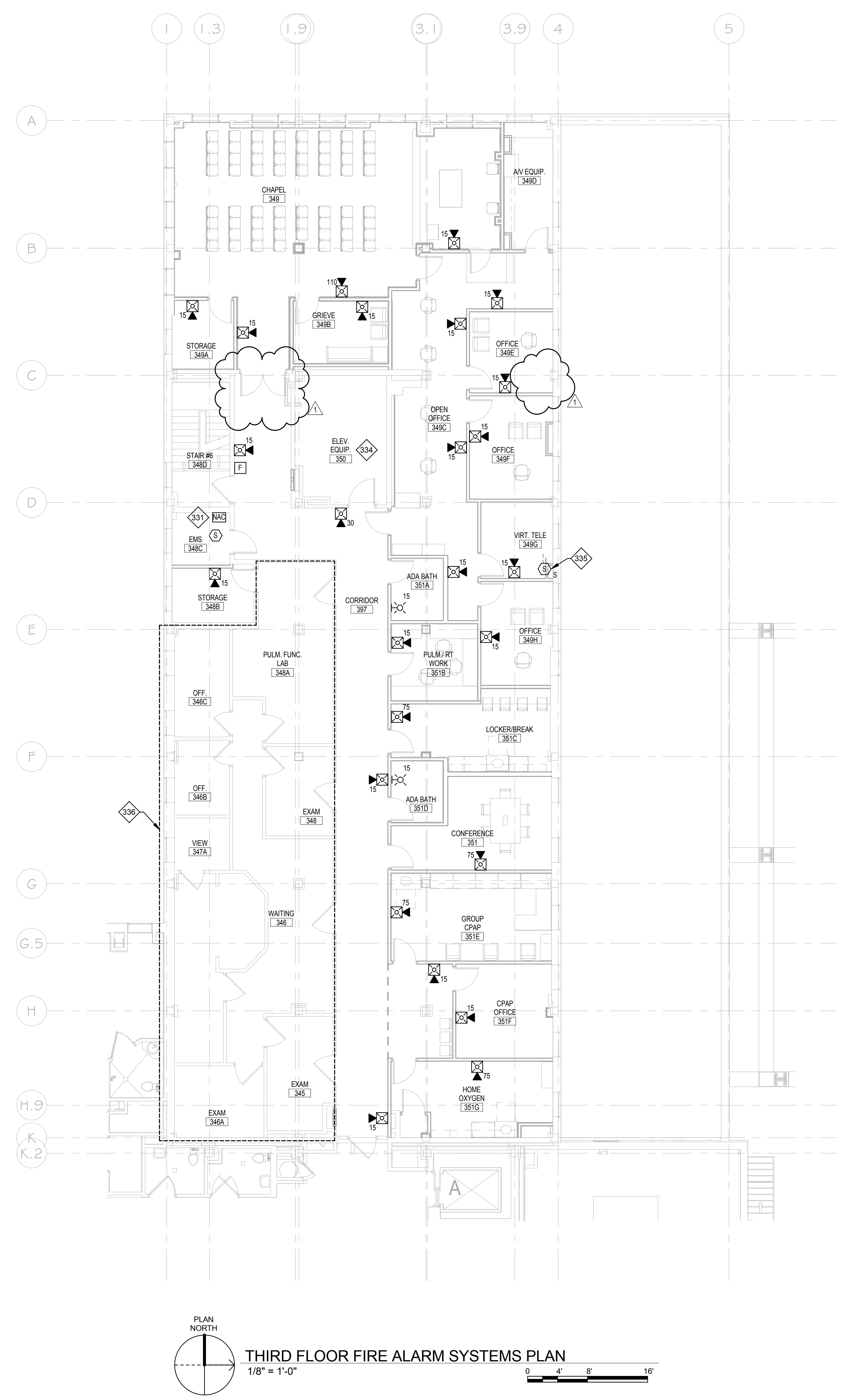
NFPA 110 - STANDARD FOR FIRE SAFETY AND EMERGENCY SYMBOLS (2015 EDITION)

NOTE 1: FOR DESIGN FEATURES THAT ARE ADDRESSED BY BOTH THE IBC AS WELL AS BY NFPA 101 OR THE NFC, THE DOCUMENT REFERENCED BY NFPA 101 OR THE NFC SHALL BE USED EXCLUSIVELY.

NOTE 2: FIRE PROTECTION FEATURES NOT ADDRESSED BY THE NFC OR OTHERWISE ADDRESSED IN THE VA FIRE PROTECTION DESIGN MANUAL SHALL BE DESIGNED TO COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE INTERNATIONAL BUILDING CODE (IBC).

FIRE ALARM LEGEND

(S)	ADDRESSABLE SMOKE DETECTOR
(S)	ADDRESSABLE DUCT DETECTOR
(F)	FIRE ALARM MANUAL PULL STATION
15	VISUAL STROBE UNIT NUMBER DENOTES CD RATING
15	AUDIBLE/VISUAL ALARM SPEAKER/STROBE UNIT NUMBER DENOTES CD RATING
(NAC)	NOTIFICATION APPLIANCE CIRCUIT (REMOTE POWER SUPPLY)
(AOM)	FIRE ALARM CONTROL OR MONITOR MODULE



PLAN NORTH
THIRD FLOOR FIRE ALARM SYSTEMS PLAN
 1/8" = 1'-0"
 0 4' 8' 16'

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SEAL

FINAL SUBMITTAL FOR CONSTRUCTION

Professional Engineer Seal: MELISSA D. MCDONALD, No. 062-02197, State of Missouri, Exp. 11/30/2017

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Drawing Title
THIRD FLOOR FIRE ALARM PLAN

Approved: Project Director
 Approver

Project Title
VA HEALTH CARE SYSTEM

Location
 VAS 438-16-104 BLDG. 5 CHAPEL
 SIOUX FALLS, SD 57105

Date
 2017.03.13

Checked
 Checker

Drawn
 Author

Project Number
 438-16-104 2016.052

Building Number
 5

Drawing Number
E-310

Scale: As indicated

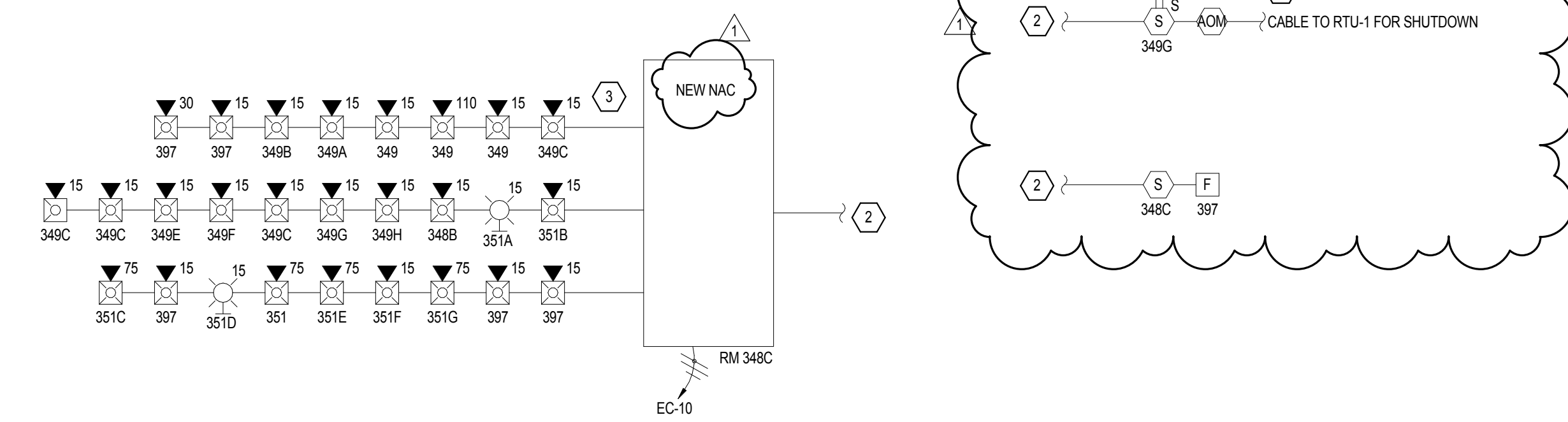
Owner

three eighths inch = one foot
 one half inch = one foot
 one quarter inch = one foot
 three sixteenths inch = one foot
 one eighth inch = one foot
 one sixteenth inch = one foot
 one thirty second inch = one foot
 one sixty fourth inch = one foot

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three inches = one foot
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 one inch = one foot
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FIRE ALARM LEGEND	
	ADDRESSABLE SMOKE DETECTOR
	ADDRESSABLE DUCT DETECTOR
	FIRE ALARM MANUAL PULL STATION
	VISUAL STROBE UNIT NUMBER DENOTES CD RATING
	AUDIBLE/VISUAL ALARM SPEAKER/STROBE UNIT NUMBER DENOTES CD RATING
	NOTIFICATION APPLIANCE CIRCUIT (REMOTE POWER SUPPLY)
	FIRE ALARM CONTROL OR MONITOR MODULE



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NFPA 170 - STANDARD FOR FIRE SAFETY AND EMERGENCY SYMBOLS (2015 EDITION)

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FIRE ALARM KEYED NOTES

1 PROVIDE CONTROL MODULE TO ACTUATE SHUTTING DOWN OF AIR HANDLING UNIT AND SIGNAL TO FIRE ALARM PANEL WHEN DUCT DETECTOR SENSES SMOKE.

2 CONNECT TO EXISTING FIRE ALARM CABLE SERVING THE AREA. EXISTING FIRE ALARM SYSTEM IS NOTIFIER 3000.

3 CONTRACTOR SHALL SHOW FINAL QUANTITY OF NOTIFICATION APPLIANCES AND ASSOCIATED CIRCUITS ON SHOP DRAWINGS.

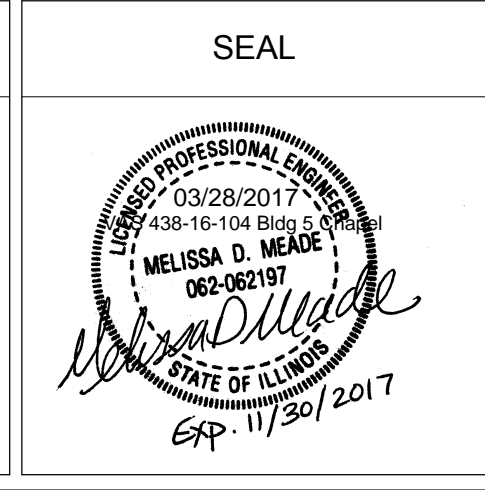
1 FIRE ALARM RISER DIAGRAM
 N.T.S.

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Drawing Title
FIRE ALARM RISER DIAGRAM

Approved: Project Director
 Approver

Project Title
VA HEALTH CARE SYSTEM

Location
 VAS 438-16-104 BLDG. 5 CHAPEL
 SIOUX FALLS, SD 57105

Date
 2017.03.13

Checked
 Checker

Drawn
 Author

Project Number
 438-16-104 2016.052

Building Number
 5

Drawing Number
E-501



Scale: 12" = 1'-0"