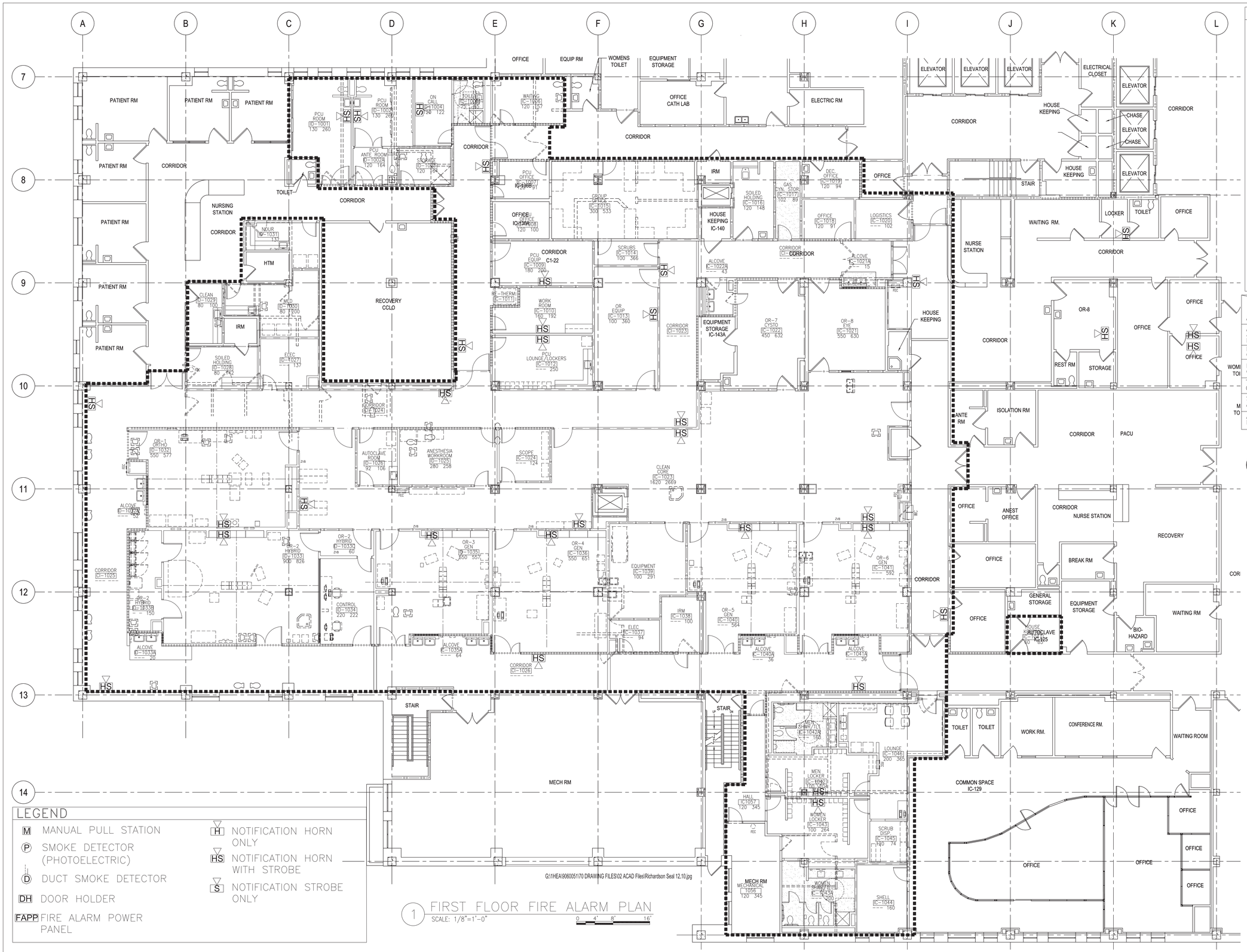

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1 FIRST FLOOR FIRE ALARM PLAN

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

GENERAL NOTES

1. NOTE TO FIRE ALARM CONTRACTOR: THIS BUILDING IS A COMPLETELY SPRINKLERED BUILDING.
2. CONTRACTOR SHALL REMOVE AND STORE EXISTING FIRE EXTINGUISHERS AND ELECTRONIC MONITORING SYSTEM AND DEVICES UNTIL REQUIRED FOR RE-USE.
3. FOLLOW DRAWINGS IN LAYING OUT WORK. VERIFY EXISTING CONDITIONS PRIOR TO BEGINNING WORK.
4. DO NOT REUSE EXISTING WIRING OR CONDUIT FOR NEW WORK.
5. ROUTE NEW WIRING IN NEW CONCEALED CONDUIT.
6. ALL FIRE ALARM SYSTEM WORK SHALL COMPLY WITH THESE SPECIFICATIONS, NFPA 72 (LATEST EDITION) AND VA GUIDELINES.
7. UNLESS OTHERWISE INDICATED, ALL PULL STATIONS ARE WALL MOUNTED AND ALL SMOKE AND HEAT DETECTORS AND SPEAKERS AND STROBES ARE CEILING MOUNTED.
8. CONTRACTOR SHALL MINIMIZE SYSTEM OUTAGES. SYSTEMS SHALL BE RESTORED TO ACTIVE STATUS AT THE END OF EACH DAY.
9. FIRE ALARM CONTRACTOR SHALL ENSURE SYSTEM OPERATION IS COMPATIBLE WITH EXISTING SYSTEM.
10. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING WIRING CONNECTIONS AND CONDUIT ROUTINGS.
11. INSTALL DUCT SMOKE DETECTOR IN SUPPLY DUCT IN ACCORDANCE WITH NFPA 90A AND WITH MANUFACTURER'S INSTRUCTIONS.
12. FIRE ALARM ANNUNCIATOR PANEL SHALL BE SEMI-RECESSED.

ACTION \ INITIATION	MANUAL PULL STATION	AREA SMOKE DETECTOR
ACTIVATE FIRE ALARM SPEAKERS & STROBE LIGHTS THROUGHOUT BUILDING	X	X
DISPLAY ALARM INDICATION @ FACP & REMOTE ANNUNCIATOR	X	X
DISPLAY SUPERVISION CONDITION @ FACP & REMOTE ANNUNCIATOR		
TRANSMIT ALARM, SUPERVISORY OR TROUBLE SIGNAL VIA DACT	X	X
SHUT DOWN ASSOCIATED AHU		
ACTIVATE MAGNETIC DOOR RELEASE	X	X

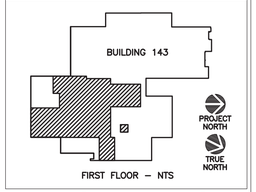
1 SEQUENCE OF OPERATION MATRIX

N.T.S. (FOR RENOVATION ONLY)

LEGEND

- M MANUAL PULL STATION
- P SMOKE DETECTOR (PHOTOELECTRIC)
- D DUCT SMOKE DETECTOR
- DH DOOR HOLDER
- FAPP FIRE ALARM POWER PANEL
- H NOTIFICATION HORN ONLY
- HS NOTIFICATION HORN WITH STROBE
- S NOTIFICATION STROBE ONLY

KEY PLAN



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Atriax, pllc
102 3rd Avenue, NE
PO Box 1629,
Hickory, NC 28603
Phone: 828.315.9962
Fax: 828.315.9964
www.atriaxgroup.com

CONSULTANTS

FreemanWhite
8845 Red Oak Blvd.
Charlotte, NC 28217-5593
Phone: 704.523.2230
Fax: 704.523.2235
www.freemanwhite.com

LeGrand Engineering, Inc.
215 Park Ave SE
Aiken, SC 29801
Phone: 803.502.0657
Fax: 803.643.4648
www.legrandengineering.com

Quality Consultaning Engineers, pllc
1419 Deer Forest Drive
Indian Land, SC 29707
Phone: 803.207.5450
djones@qualityconsultingengineers.com

SOUTH CAROLINA REGISTERED NO. 16887 PROFESSIONAL ENGINEER G. MARK LEGRAND 2-2-16

Approved: Energy Engineer	Approved: Safety Manager	Approved: Service Chief
100% CONSTRUCTION DOCUMENTS	Approved: Infection Control Officer	Approved: Chief of Staff
	Approved: GEMS Coordinator	Approved: Associate Director

Drawing Title: FA101 FIRST FLOOR FIRE ALARM PLAN

Approved: Chief of Facility Management Svc.

Approved: Medical Center Director

Project Title: RENOVATE / EXPAND SURGICAL SUITE

Building Number: BUILDING 143 | Checked: GML | Drawn: GML

Location: VA MEDICAL CENTER, SALEM, VA 24153

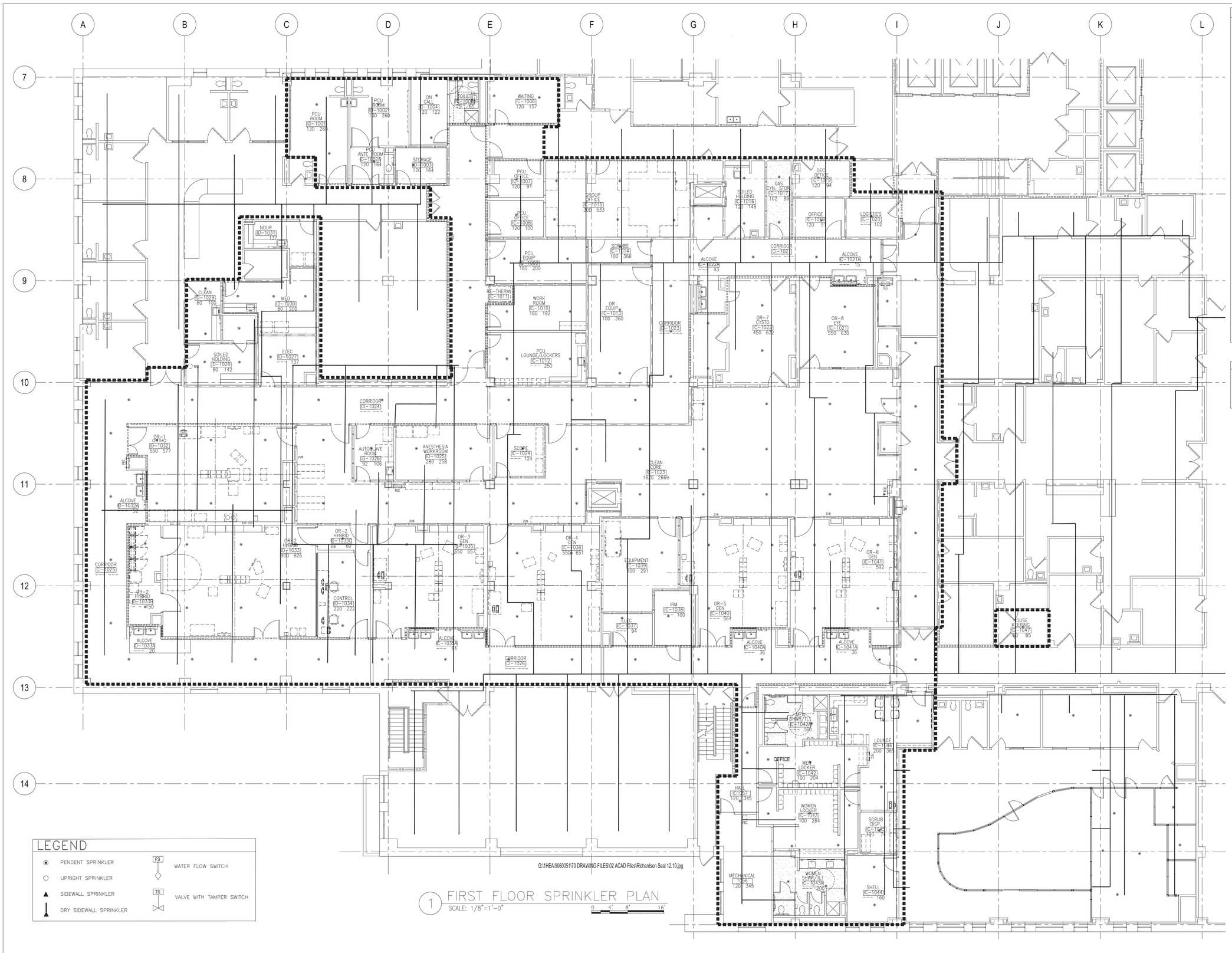
Date: 12 / 10/ 2015

Project No. 658-15-104

DRAWING NO. 2591

Dwg. Of

Veterans Affairs



1 FIRST FLOOR SPRINKLER PLAN

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

0 4' 8' 16'

GENERAL NOTES

1. THIS PROJECT WILL RELOCATE EXISTING SPRINKLERS AND REUSE EXISTING PIPING AS MUCH AS PRACTICABLE.
2. ALL AREAS SHALL BE LIGHT HAZARD UNLESS OTHERWISE NOTED. THIS BUILDING SHALL BE FULLY SPRINKLERED PER NFPA 13, THE PROJECT SPECIFICATIONS AND FIRE SPRINKLER DRAWINGS.
3. THIS DRAWING SHOWS APPROXIMATE LOCATION OF EXISTING MAINS AND BRANCH LINES. EXISTING SYSTEM IS GRIDDED. CONTRACTOR SHALL VERIFY EXACT PIPE SIZES AND LOCATIONS IN FIELD.
4. THIS DRAWING ALSO SHOWS LOCATIONS OF NEW SPRINKLERS. CONTRACTOR SHALL VERIFY LOCATIONS BASED ON CONSTRUCTION CONDITIONS.
5. ALL NEW SPRINKLERS SHALL BE QUICK RESPONSE SPRINKLERS.
6. PIPING 2" AND SMALLER SHALL BE SCH. 40 BLACK STEEL PER ASTM STANDARD #A795, #A135, OR #A53.
7. PIPE 2 1\2" AND LARGER IN CONDITIONED SPACES MAY BE SCH. 10 WHEN ENDS ARE ROLL GROOVED AND JOINED WITH GROOVED COUPLINGS AND FITTINGS.
8. ALL THREADED FITTINGS SHALL BE CAST IRON PER ASME #B16.4 STANDARD.
9. ALL GROOVED FITTINGS SHALL BE PER ANSI #A-536 AND PER NFPA 13.
10. ALL PIPING SHALL BE INSTALLED TO FACILITATE COMPLETE DRAINAGE THROUGH MAIN DRAIN VALVE AND INTO MAIN DRAIN RISER ASSEMBLY. ANY PORTIONS OF TRAPPED WATER SHALL HAVE AUX. DRAIN VALVE AND PLUG.
11. DRY PIPING SHALL BE PITCHED IN ACCORDANCE WITH NFPA 13 TO DRAIN TO MAIN DRAINS AND AUXILIARY DRAINS.
12. INSTALL AND TEST ABOVEGROUND SPRINKLER PIPING PER NFPA 13. PRESSURE TEST PIPING TO 225 PSI FOR 2 HOURS WITH NO VISIBLE LEAKAGE OR LOSS OF PRESSURE FOR DURATION OF TEST. SMALL SECTIONS OF PIPING MAY BE OPERATIONALLY TESTED.
13. AT COMPLETION OF SYSTEM TESTING, COMPLETED CONTRACTORS MATERIAL AND TEST CERTIFICATES SHALL BE FORWARDED TO THE OWNER.
14. ALL EXPOSED PIPE, HANGER ASSEMBLIES, AND FITTINGS SHALL BE PRIMED AND PAINTED IN ACCORDANCE WITH THE SPECIFICATION.
15. ALL SYSTEM CONTROL VALVES 3" AND SMALLER SHALL BE INDICATING BUTTERFLY VALVES LISTED FOR FIRE PROTECTION, WITH INTEGRAL TAMPER SWITCH.
16. ALL PIPE LOCATIONS ARE TO BE MEASURED PRIOR TO FABRICATION AND INSTALLATION BY CONTRACTOR.
17. CONNECT NEW PIPING TO EXISTING AT NEAREST POINT.
18. PROVIDE UL LISTED HANGERS PER NFPA 13.
19. PROVIDE UL LISTED BRACING PER NFPA 13.
20. PROVIDE PRESSURE GAGES PER NFPA 13.
21. PROVIDE SPRINKLER TEMPERATURE RATINGS PER NFPA 13. PROVIDE SPRINKLER TYPES ACCORDING TO THE TABLE BELOW.
22. PROVIDE A STOCK OF SPARE SPRINKLERS IN A METAL WALL CABINET PER NFPA 13.
23. CONTRACTORS SHOP DRAWINGS SHALL INCLUDE LIGHTING FIXTURES AND HVAC VENTS ON REFLECTED CEILING PLANS TO REDUCE INTERFERENCES.
24. COORDINATE SPRINKLER LOCATIONS WITH REFLECTED CEILING PLAN.
25. CONTRACTOR SHALL VERIFY FIELD CONDITIONS OF ALL EXISTING PIPING AND SPRINKLER LOCATIONS PRIOR TO PREPARING SHOP DRAWINGS AND PERFORMING INSTALLATION.
26. IF NEW MAINS ARE INSTALLED, PROVIDE SEISMIC BRACING IN ACCORDANCE WITH NFPA 13.
27. OBTAIN A FLOW TEST LESS THAN ONE YEAR OLD.
28. PROVIDE A 10% SAFETY MARGIN IN THE HYDRAULIC CALCULATIONS.

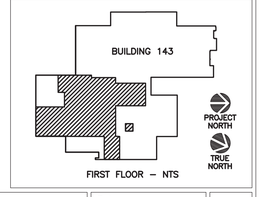
SPRINKLER TYPES TO BE USED IN BUILDING

LOCATION	TYPE
ALL PUBLIC AREAS	RECESSED PENDENT
AREAS WITH NO CEILING	UPRIGHT OR SIDEWALL

LEGEND

- PENDENT SPRINKLER
- UPRIGHT SPRINKLER
- SIDEWALL SPRINKLER
- DRY SIDEWALL SPRINKLER
- FS — WATER FLOW SWITCH
- TS — VALVE WITH TAMPER SWITCH

KEY PLAN



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Atriax, pllc
102 3rd Avenue, NE
PO Box 1629,
Hickory, NC 28603
Phone: 828.315.9962
Fax: 828.315.9964
www.atriaxgroup.com

CONSULTANTS

FreemanWhite
8845 Red Oak Blvd.
Charlotte, NC 28217-5593
Phone: 704.523.2230
Fax: 704.523.2235
www.freemanwhite.com

LeGrand Engineering, Inc.
215 Park Ave SE
Aiken, SC 29801
Phone: 803.502.0657
Fax: 803.643.4648
www.legrandengineering.com

Quality Consultaning Engineers, pllc
1419 Deer Forest Drive
Indian Land, SC 29707
Phone: 803.207.5450
djones@qualityconsultingengineers.com

SOUTH CAROLINA REGISTERED NO. 16887 PROFESSIONAL ENGINEER MARK L. LEGRAND 2-2-16

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