ABBREVIATIONS		
А	AMPERE	
A.F.F.	ABOVE FINISHED FLOOR	
С	CONDUIT	
СВ	CIRCUIT BREAKER	
CC	CONTROL CONTACTS	
cd	CANDELA	
CKT	CIRCUIT	
DN	DOWN	
DWG	DRAWING	
E,EX	EXISTING	
EC	EMPTY CONDUIT	
EL	ELEVATOR LOBBY	
EMT	ELECTRIC METALLIC TUBING	
FACP	FIRE ALARM CONTROL PANEL	
FCO	FUSE CUTOUT	
FDNY	FIRE DEPARTMENT OF NEW YORK CITY	
GND,G	GROUND	
MAG	MAGNETIC	
MTD	MOUNTED	
NO.	NUMBER	
NIC	NOT IN CONTRACT	
PH	PHASE	
R	RELAY	
RGS	RIGID GALVANIZED STEEL	
RUMC	RICHMOND UNIVERSITY MEDICAL CENTER	
SD	SMOKE DETECTOR	
SN	SOLID NEUTRAL	
TP	TAMPERPROOF	
TYP	TYPICAL	
U.O.N.	UNLESS OTHERWISE NOTED	
V	VOLTAGE	
WP	WEATHERPROOF	

DRAWING LIST			
FA-001.00	FIRE ALARM SYMBOL LIST, ABBREVIATIONS AND NOTES		
FA-002.00	FIRE ALARM NOTES AND INPUT/OUTPUT MATRIX		
FA-003.00	FIRE ALARM RISER DIAGRAM		
FA-101.00	CELLAR AND FIRST FLOOR DEMOLITION PLAN		
FA-102.00	SECOND FLOOR AND ROOF DEMOLITION PLAN		
FA-201.00	CELLAR AND FIRST FLOOR - NEW WORK PLAN		
FA-202.00	SECOND FLOOR AND ROOF - NEW WORK PLAN		
FA-301.00	FIRE ALARM DETAILS		
FA-401.00	FIRE ALARM SPECIFICATIONS SHEET 1 OF 2		
FA-402.00	FIRE ALARM SPECIFICATIONS SHEET 2 OF 2		

DEMOLITION NOTES:

- PROVIDE ALL LABOR, MATERIAL, EQUIPMENT, STORAGE FACILITIES, SERVICES AND SUPERVISION NECESSARY FOR THE COMPLETE AND SATISFACTORY DEMOLITION WORK AS INDICATED ON DRAWINGS AND SPECIFIED HEREIN.
- 2. THE PROTECTION OF ANY AND ALL EXISTING WORK TO REMAIN SHALL INCLUDE BUT IS NOT LIMITED TO THE PROTECTION OF ALL MATERIALS, EQUIPMENT AND WORK LIABLE TO BE DAMAGED THROUGH OPERATIONS UNDER THIS CONTRACT. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL DAMAGES OCCURRING FROM HIS WORK.
- ALL WORK SHALL BE EXECUTED IN AN ORDERLY AND CAREFUL MANNER WITH DUE CONSIDERATION FOR PUBLIC SAFETY AND IN CONFORMANCE WITH OSHA STANDARD.
- 4. PREVENT DUST, ODORS, DIRT AND DEBRIS FROM MIGRATING TO OTHER AREAS. THIS INCLUDED HVAC
- 5. REMOVAL OF ANY MATERIAL AND EQUIPMENT SHALL INCLUDE ALL ASSOCIATED ITEMS SUCH AS FASTENERS, SUPPORTS, CONDUIT, FLASHING, ADHESIVE, ETC.
- 6. ALL DEBRIS SHALL BE REMOVED AS IT ACCUMULATES. DO NOT STORE OR PERMIT DEBRIS TO ACCUMULATE ON SITE. IF THE CONTRACTOR FAILS TO REMOVE DEBRIS PROMPTLY OR PROPERLY, THE OWNER HAS THE RIGHT TO REMOVE AT THE CONTRACTOR'S EXPENSE.
- 7. ANY AND ALL EXISTING EQUIPMENT OR MATERIALS TO BE RE-USED AS DETERMINED BY ENGINEER/ARCHITECT, OR NOT SHOWN ON THE DRAWINGS TO BE RETAINED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PREMISES. REMOVED ITEMS SERVICEABLE BY THE OWNER SHALL BE TURNED OVER FOR STORAGE AND LOCATED AS REQUIRED.
- INCLUDE ALL COSTS FOR REMOVALS IN THE CONTRACT. THESE COSTS SHALL INCLUDE WORK DESCRIBED HEREIN AND SHOWN ON THE DRAWINGS WITH ALLOWANCES FOR NORMAL UNFORESEEN DIFFICULTIES WHEN CONCEALED WORK HAS BEEN OPENED. NO CLAIMS FOR ADDITIONAL WORK ASSOCIATED WITH DEMOLITION WILL BE ACCEPTED, EXCEPT IN SPECIFIC CASES CONSIDERED JUSTIFIABLE BY THE ARCHITECT/ENGINEER.
- 9. ALL WORK WHICH IS NO LONGER REQUIRED TO FUNCTION SHALL BE DE-ENERGIZED AND DISCONNECTED AT THE SOURCE OF POWER SUPPLY.
- 10. TAKE POSSESSION AND REMOVE FROM THE PREMISES ALL ABANDONED MATERIALS AND EQUIPMENT UNLESS OTHERWISE REQUESTED BY THE OWNER, IN WHICH CASE REMOVE WITHOUT DAMAGE ALL SUCH EQUIPMENT AND DELIVER TO OWNER WITHIN BUILDING AT LOCATION DESIGNATED BY CONSTRUCTION MANAGER, COORDINATE LOCATION WITH CONSTRUCTION MANGER.
- 11. PRIOR TO SUBMISSION OF BID, VISIT SITE AND EXAMINE EXISTING CONDITIONS, QUANTITIES AND DIFFICULTIES THAT WILL BE INCURRED DURING THE PERFORMANCE OF WORK. CLAIMS FOR ADDITIONAL COMPENSATION THAT ARE DUE TO THE FAILURE OF THE CONTRACTOR TO EXAMINE THE
- 12. TRACE ALL CONDUITS AND WIRING BEFORE REMOVAL TO CONFIRM AREAS TO REMAIN ARE NOT

WORK DESCRIPTION:

- 1. FURNISH AND INSTALL NEW FIRE ALARM PANEL.
- FURNISH AND INSTALL NEW DISCONNECT SWITCH FOR FIRE ALARM PANEL POWER.
- FURNISH AND INSTALL NEW FIRE ALARM INITIATING DEVICES FOR ALL FLOORS (SMOKE DETECTOR,
- 4. FURNISH AND INSTALL NEW FIRE ALARM NOTIFICATION DEVICES FOR ALL FLOORS (HORN/STROBE AND
- REMOVAL OF OLD EXISTING FIRE ALARM SYSTEM AFTER NEW FIRE ALARM SYSTEM IS OPERATIONAL.

FDNY FIRE ALARM PLAN ACCEPTED

Subject to audibility & visibility throughout the premises

FINAL APPROVAL SUBJECT TO INSPECTION FDNY REFERENCE #: 2023-TMFALM-000954-PLAN **ACCEPTED WITH CONDITION(S): NO**

If yes, specify:_

DATE: 10/06/2023 EXAMINER: Naznin Fancy

EXAMINED FOR COMPLIANCE WITH BUILDING CODE SECTIONS BC 907 & BC 908 AND FIRE CODE SECTIONS FC 907 & FC 908 ONLY. APPLICANT IS RESPONSIBLE FOR COMPLIANCE WITH BUILDING CODE APPENDIX Q 107 AND ROUTING OF WIRES IN ACCORDANCE WITH NYC ELECTRICAL CODE

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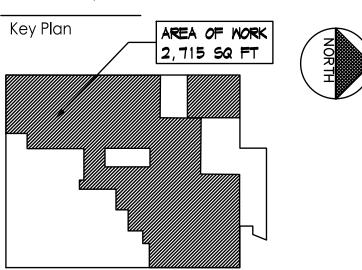
Consultants

Phone: (631) 738-1200 Fax: (631) 285-6464 www.BohlerEngineering.com



200 Old Country Road, Suite 670

Mineola, NY 11501 Phone: (516) 484-1020 Fax: (516) 484-0926 www.leapc.com



Appd. YY.MM.DD Revision

Appd. YY.MM.DD Issued File Name: 7024.04-FA-001.dwg

Dwn. Chkd. Dsgn. YY.MM.DD

Permit-Seal



Client/Project

RICHMOND UNIVERSITY MEDICAL CENTER TRANSFORMATIONAL GRANT

669 CASTLETON AVE, STATEN ISLAND, NY SECOND FLOOR PROPOSED RENOVATION

FIRE ALARM SYMBOL LIST, ABBREVIATIONS AND NOTES

Project No. Scale 225300004

Drawing No.

AS NOTED

Revision

1 of 10

AREA OF WORK





SITE PLAN

STATEN ISLAND BLOCK NO: 101 ZONING MAP: 21A

NEW YORK CITY BUILDING DEPARTMENT NOTE:

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BOROUGH

LOT NO:

ZONING:

- 1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH NEW YORK CITY ELECTRICAL CODE, NATIONAL SAFETY, NFPA 72, NEW YORK CITY BUILDING AND FIRE DEPARTMENT AND ALL OTHER GOVERNING AUTHORITIES HAVING JURISDICTION.
- FURNISH AND INSTALL ALL FIRE ALARM EQUIPMENT/DEVICES WITH RELATED WORK AS SHOWN ON DRAWINGS.
- 3. ALL MATERIALS REQUIRED SHALL BE NEW AND SHALL BEAR LABELING OF THE UNDERWRITERS LABORATORIES, INC. AND BSA APPROVED.
- MINIMUM CONDUIT SIZE SHALL BE 3/4".
- VISIT THE SITE PRIOR TO BIDDING, TO ASSURE HIMSELF THAT THE PREVAILING CONDITIONS AT THE SITE HAVE BEEN CAREFULLY CONSIDERED, NO ALLOWANCES FOR EXTRA WORK WILL BE GIVEN UNLESS THE PREVAILING CONDITION COULD NOT BE DETERMINED BY REASONABLE MEANS OR METHODS.
- BE RESPONSIBLE TO KEEP ALL WORK AREAS CLEAN. PROTECT ALL FLOORING WITH PLASTIC SHEETS AND VACUUM DAILY. DEBRIS SHALL NOT BE LEFT ON SITE AND SHALL BE REMOVED BY THE CONTRACTOR. ANY DAMAGES SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- NO HAZARDOUS CONDITIONS SHALL BE LEFT AND ALL EXPOSED, LIVE WIRING SHALL BE FULLY PROTECTED TO ASSURE A SAFE, PROPERLY OPERATING INSTALLATION, SAFETY BARRICADES AND SIGNS SHALL BE PROVIDED AT THE OWNER'S DIRECTION.
- ALL EQUIPMENT SHALL BE SHIPPED TO THE JOB SITE IN FACTORY PACKAGING AND SEALED TO ASSURE INTEGRITY OF ASSEMBLY AND MANUFACTURE. NO OPENED OR DAMAGED EQUIPMENT WILL BE ACCEPTED OR INSTALLED.
- BOXES SHALL BE PRESSED STEEL, 4" SQUARE AND 1-1/2" OR 2-1/8" DEEP MINIMUM, AND PAINTED FIRE DEPARTMENT RED.
- 10. CUTTING, PATCHING AND PRIMING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. WRITTEN APPROVAL MUST BE OBTAINED FROM BUILDING'S ENGINEER BY CONTRACTOR PRIOR TO PENETRATING, DRILLING OR CHOPPING EXISTING WALLS, CEILINGS AND FLOORS. ALL CONDUITS SHALL BE PAINTED TO MATCH EXISTING WALLS AND CEILINGS.
- 11. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK, FOLLOW DRAWINGS IN LAYOUT WORK AND CHECK DRAWINGS TO VERIFY SPACE CONDITIONS. MAINTAIN HEAD ROOM AND SPACE CONDITIONS.
- SECURE ALL SUPPORTS TO BUILDING STRUCTURE AS SPECIFIED UNDER RACEWAYS. SUPPORT HORIZONTAL RUNS OF METALLIC RACEWAYS NOT MORE THAN 10 FEET APART. SUPPORT RACEWAY RISERS AT EACH FLOOR LEVEL. RUN EXPOSED RACEWAYS PARALLEL WITH OR AT RIGHT ANGLES TO WALLS.
- 13. PASS RACEWAYS OVER WATER, STEAM OR OTHER PIPING WHEN PULL BOXES ARE NOT REQUIRED. NO RACEWAY WITHIN 3 INCHES OF STEAM OR HOT WATER PIPES OR APPLIANCES, EXCEPT CROSSING WHERE RACEWAY SHALL BE AT LEAST 1 INCH FROM PIPE COVER.
- CUT CONDUIT ENDS SQUARE, REAM SMOOTH. DRAW UP TIGHT WITH RACEWAYS COUPLINGS.
- 15. LEAVE WIRE SUFFICIENTLY LONG TO PERMIT MAKING FINAL CONNECTIONS. IN RACEWAYS OVER 10 FEET IN WHICH WIRING IS NOT INSTALLED, FURNISH FISH WIRE.
- 16. DO NOT PULL THERMOPLASTIC WIRES AT TEMPERATURES LOWER THAN 32°F (0°C). PROVIDE CABLE SUPPORTS FOR WIRE IN RISER CONDUITS AS REQUIRED BY CODE.
- 17. SET BOXES SQUARE AND TRUE WITH BUILDING FINISH. ERECT WALL AND DEVICES IN ADVANCE OF FURRING AND FIREPROOFING. SECURE TO BUILDING STRUCTURE BY ADJUSTABLE STRAP IRONS.
- LOCATIONS INDICATED FOR FIRE ALARM DEVICES ARE SUBJECT TO MODIFICATIONS. VERIFY FINAL LOCATION IN FIELD PRIOR TO BOXES INSTALLATION.
- 19. WIRE COLOR CODING: AS PER CODE. WHERE COLOR-CODED CABLE IS NOT AVAILABLE, CERTIFY IN WRITING & REQUEST PERMISSION FOR OVERLAP COLOR TAPING CONDUCTORS (MINIMUM LENGTH 6") IN ACCESSIBLE LOCATIONS. COLOR CODING, ONCE SELECTED MUST BE USED CONSISTENTLY FOR THE ENTIRE PROJECT.
- 20. FIREPROOF & SEAL ALL CONDUIT PENETRATIONS THRU WALLS, FLOOR & CEILING SLABS.
- 21. ALL FIRE ALARM MANUAL PULL STATION SHALL BE INSTALLED WITHIN ARM DISTANCE FROM DOOR HANDLE. EXACT LOCATION SHALL BE FIELD COORDINATED.
- 22. WIRE F.A. DEVICES AS FOLLOWS:
 - SPEAKERS

CENTRAL STATION SHALL BE IN EMT.

- STROBES 13 PER ZONE ADDRESSABLE DEVICES (INPUT AND OUTPUT) 125 PER DATA LOOP
- PROVIDE END OF LINE RESISTORS AT THE LAST DEVICE OF EACH DATA LOOP AND ZONE.
- ALL FPLP WIRING EXPOSED, RUN IN MECHANICAL ROOMS, OUTDOORS...ETC., SHALL BE INSTALLED IN DEDICATED RGS CONDUIT, IN MER'S AND INDOORS, WIRING ABOVE 8 FT, SHALL BE INSTALLED IN EMT. ALL APPLICABLE PORTIONS OF NFPA, NYC BUILDING AND ELECTRIC CODES, REQUIREMENTS SHALL BE IMPLICITLY FOLLOWED, PARTICULARLY WITH REGARD TO MATERIAL TYPE AND QUALITY, CIRCUITRY EXTENSIONS FROM AND CONNECTIONS TO JUNCTION BOXES, PANEL AND SIMILAR APPURTENANCES. FPLP WIRING INSTALLED INDOORS ABOVE HUNG CEILING MAY BE RUN EXPOSED AND INDEPENDENTLY SUPPORTED EVERY 5 FT. FROM THE CEILING SLAB. WIRING RUN IN EXPOSED CEILING SHALL BE IN EMT. ALL RISERS TO
- ALL WIRING SHALL BE OF THE SIZE AND CONFIGURATION TYPE RECOMMENDED BY THE MANUFACTURER FOR EACH TYPE OF CIRCUIT IN THE SYSTEM AND MEET THE REQUIREMENTS BELOW LISTED IN A THROUGH G.
- COPPER CONDUCTORS ONLY. ALUMINUM CONDUCTORS OR COPPER CLAD, PLATED
- OR COATED ALUMINUM CONDUCTORS SHALL NOT BE ACCEPTABLE. COLOR CODED THROUGHOUT.
- IN CONFORMANCE WITH THE NFPA AND NATIONAL ELECTRICAL CODE STANDARDS. APPROVED BY THE NYC FIRE DEPARTMENT.
- A MINIMUM OF NO. 16 A.W.G., UNLESS OTHERWISE NOTED.
- THWN/THHN INSULATED WIRE CONDUCTOR SIZES OF 16 A.W.G. AND LARGER RUN IN
- G. FPLP CABLE TYPE SHALL MEET THE FOLLOWING REQUIREMENTS.
- A MINIMUM TEMPERATURE RATING OF 150°C.
- A MINIMUM AVERAGE INSULATION THICKNESS OF 15 MILS. A MINIMUM AVERAGE JACKET THICKNESS OF 25 MILS.
- THE COLOR OF THE CABLE SHALL BE RED. THE CABLE SHALL BE A TYPE FPLP (PLENUM TYPE). THE CABLE SHALL BE VISIBLY MARKED EXTERNALLY THAT IT
- (NYS DOS#16120-880418-3035) 7. FPLP WIRING INSTALLED IN HUNG CEILING IS NOT REQUIRED

MEETS THE ABOVE REQUIREMENTS AND IS LISTED BY UL.

- TO BE INSTALLED IN EMT. INSTALL IN EMT WHERE ALLOWED BY CODE WITH COMPRESSION FITTINGS.
- 25. ALL WIRES SHALL TEST FREE FROM GROUNDS AND CROSSES BETWEEN CONDUCTORS.
- 26. CIRCUIT WIRING FROM THE FIRE ALARM CONTROL PANEL TO REMOTE DEVICES AND TO THE SYSTEM PERIPHERAL EQUIPMENT SHALL BE A MINIMUM OF AS FOLLOWS:

- EACH ADDRESSABLE DATA COMMUNICATIONS CIRCUIT: 1 PAIR TWISTED AND SHIELDED NO. 16 A.W.G. COPPER CONDUCTORS.
- EACH ADDRESSABLE MODULE POWER CIRCUIT: TWO (2) NO. 14 A.W.G. COPPER CONDUCTORS.
- EACH ALARM SPEAKER CIRCUIT: 1 PAIR TWISTED NO. 16 A.W.G. COPPER
- EACH ALARM STROBE LIGHT CIRCUIT: 1 PAIR TWISTED NO. 14 A.W.G. COPPER CONDUCTORS. TWISTED.
- EACH CONTROL CIRCUIT: TWO (2) NO. 12 A.W.G. COPPER CONDUCTORS. EACH INITIATING CIRCUIT: TWO (2) NO. 14 A.W.G. COPPER CONDUCTORS.
- 27. ALL THHN WIRING SHALL BE INSTALLED IN DEDICATED, RIGID METAL CONDUIT (3/4" MINIMUM) THROUGHOUT OR EMT WHERE APPROVED BY CODE.
- 28. CONDUITS SHALL ONLY ENTER THE SIDES OR BOTTOM OF THE FIRE ALARM CONTROL PANEL(S). CONDUITS SHALL NOT ENTER THE TOP OF THE FIRE ALARM CONTROL PANEL.
- 29. ALL PENETRATIONS OF FLOOR SLABS AND FIRE WALLS SHALL BE FIRE STOPPED IN ACCORDANCE WITH ALL LOCAL FIRE CODES.
- 30. FIRE ALARM SYSTEM TERMINAL AND JUNCTION LOCATIONS SHALL BE IDENTIFIED IN ACCORDANCE WITH NFPA STANDARD 70, SECTION 760-3. TERMINAL AND JUNCTION BOXES SHALL BE PAINTED RED AND STENCILED IN WHITE LETTERS "FIRE ALARM" PREVENTING UNINTENTIONAL INTERFERENCE WITH THE FIRE ALARM SYSTEM WIRING DURING TESTING, SERVICING AND ADDITIONAL MODIFICATIONS TO THE SYSTEM.
- 31. END OF LINE DEVICES (RESISTORS/DIODES/CAPACITORS) SHALL BE FURNISHED AS REQUIRED FOR MOUNTING AS DIRECTED BY THE MANUFACTURER.
- 32. IDENTIFICATION, LABELING, MARKING

CONDUCTORS.

- PROCEDURE SIGN: INSTALL ADJACENT TO THE FIRE ALARM CONTROL PANEL AND SPRINKLER. TROUBLE ALARM BELLS.
- ZONE LOCATOR: INSTALL ADJACENT TO EACH MANUAL FIRE ALARM STATION.
- POWER-LIMITED CIRCUITS: MARK CIRCUITS AT TERMINATIONS, INDICATING THAT CIRCUIT IS A POWER-LIMITED FIRE PROTECTIVE SIGNALING CIRCUIT.
- LABELING CIRCUIT DISCONNECTS: LABEL EACH DEVICE USED AS THE CIRCUIT DISCONNECTING MEANS FOR THE DEDICATED BRANCH CIRCUITS SERVING THE
- SYSTEM FIRE ALARM OVERCURRENT PROTECTIVE DEVICE. IDENTIFICATION OF CIRCUITS: IDENTIFY WIRES AND CABLES IN INTERCONNECTION CABINETS AND THE FIRE ALARM ADDITION CONTROL PANEL WITH PREMARKED, SELF-ADHESIVE, WRAPAROUND TYPE MARKERS. DESIGNATIONS SHALL CORRESPOND
- WITH POINT TO POINT WIRING DIAGRAMS BATTERY DATA: INSERT A COPY OF THE BATTERY WARRANTY IN EACH BATTERY COMPARTMENT AND MARK ON BATTERIES THE DATE PLACED IN SERVICE.
- 33. ALL FINAL CONNECTIONS SHALL BE MADE UNDER THE SUPERVISION OF A TRAINED MANUFACTURER'S TECHNICAL REPRESENTATIVE.
- 34. PRIOR TO THE FINAL ACCEPTANCE TEST, THE CONTRACTOR AND A TRAINED MANUFACTURER'S TECHNICAL REPRESENTATIVE SHALL TEST THE COMPLETED SYSTEM FOR PROPER OPERATION. THE SYSTEM SHALL BE DEMONSTRATED TO PERFORM ALL OF THE FUNCTIONS AS BELOW LISTED IN THESE SPECIFICATIONS. ANY SYSTEM, EQUIPMENT OR WIRING FAILURES DISCOVERED DURING SAID TEST SHALL BE REPAIRED OR REPLACED BEFORE REQUESTING SCHEDULING OF THE FINAL ACCEPTANCE TEST.
- 35. THE SYSTEM SHALL BE TESTED FOR FINAL ACCEPTANCE IN THE PRESENCE OF THE OWNER AND/OR OWNER'S REPRESENTATIVE. THE INSPECTOR FROM THE DIVISION OF FIRE PREVENTION. CONTRACTORS REPRESENTATIVE AND THE MANUFACTURERS REPRESENTATIVE. NOTIFY THE OWNER AND/OR AUTHORITY AT FIVE (5) WORKING DAYS PRIOR TO THE TEST SO THAT ARRANGEMENTS CAN BE MADE TO HAVE A FACILITY REPRESENTATIVE WITNESS THE TEST.
- 36. DURING THE FINAL ACCEPTANCE TEST:
 - EVERY MANUAL FIRE ALARM STATION SHALL BE TESTED.
- EVERY SMOKE SENSOR SHALL BE TESTED USING REAL SMOKE, SUCH AS THAT
- GENERATED BY PUNK STICKS. THE SPRINKLER SYSTEM WATERFLOW ALARM SWITCHES SHALL BE TESTED BY FLOWING WATER. THE NEW SPRINKLER SYSTEM VALVE TAMPER SWITCHES SHALL BE TESTED BY CLOSING SPRINKLER VALVES.
- EVERY AUDIBLE ALARM SIGNALING DEVICE SHALL BE SOUNDED. EVERY VISUAL ALARM SIGNALING DEVICE SHALL BE FLASHED.
- EVERY SYSTEM ADDITION CONTROL FUNCTION SHALL BE TESTED FOR ITS PROPER
- ALL NEW CIRCUITS SHALL BE OPENED AT TWO (2) LOCATIONS TO TEST FOR PROPER SUPERVISION.
- ANY AND ALL OTHER TESTS WHICH THE INSPECTOR FROM THE DIVISION OF FIRE PREVENTION SHALL REQUEST.
- 37. IF ANY OF THE TESTS SHALL FAIL TO INDICATE PROPER OPERATION OR IF THE FIRE DEPARTMENT INSPECTOR ISSUES A LIST OF DEFICIENCIES OR OBJECTIONS TO THE SYSTEM, THE CONTRACTOR SHALL IMMEDIATELY CORRECT ALL FAULTS AND IMPROPER FUNCTIONING AS PART OF HIS CONTRACT OBLIGATION. HE SHALL FURNISH AND INSTALL ALL LABOR AND MATERIALS THAT IS NECESSARY TO ACCOMPLISH THIS. THE CONTRACTOR SHALL THEN RESCHEDULE THE FINAL ACCEPTANCE TEST AND REDO ALL TESTS UNTIL THE SYSTEM IS ACCEPTED WITHOUT DISQUALIFICATION.
- UPON SUCCESSFUL COMPLETION OF ALL FINAL ACCEPTANCE TESTS, THE CONTRACTOR AND MANUFACTURER'S REPRESENTATIVE SHALL CO-SIGN LETTERS ATTESTING TO THE COMPLETION OF TESTING AND FORWARD TWO (2) COPIES OF SAID LETTERS TO THE OWNERS, THE DIVISION OF FIRE PREVENTION, CONTRACTOR REPRESENTATIVE AND THE MANUFACTURERS REPRESENTATIVE.
- 39. ALL FINAL ACCEPTANCE TESTING SHALL BE DONE AT A TIME CONVENIENT TO THE DIVISION OF FIRE PREVENTION OFFICIAL AND THE OWNER AND ALL TESTING COSTS SHALL BE BORN BY THE CONTRACTOR AS PART OF THIS CONTRACT.
- 40. DELIVER THAT CERTIFICATE TO THE OWNER BEFORE THIS WORK IS FINALLY ACCEPTED AND FINAL PAYMENT IS MADE.
- 41. WITH THE ASSISTANCE OF THE MANUFACTURER, COMPILE AND PROVIDE TO THE OWNER SIX (6) COMPLETE MANUALS ON THE FINISHED SYSTEM TO INCLUDE:
- A. OPERATING INSTRUCTIONS FOR THIS SPECIFIC SYSTEM TO INCLUDE OPERATOR INSTRUCTIONS FOR EACH REQUIRED MODE OF OPERATION AND ROUTINE TROUBLESHOOTING PROCEDURES.
- PREVENTIVE AND REQUIRED MAINTENANCE SCHEDULES FOR EACH TYPE OF SYSTEM EQUIPMENT AND/OR ACCESSORY.
- MANUFACTURER'S CATALOG PAGES OF ALL EQUIPMENT AND COMPONENTS PROVIDED
- MANUFACTURERS SUGGESTED SPARE PARTS LIST.
- ALL AS-BUILT WIRING AND CONDUIT DIAGRAMS, BOTH FLOOR PLAN AND RISER TYPES. FLOOR PLAN DIAGRAMS SHALL INDICATE ACTUAL LOCATIONS OF EACH ITEM OF FIXED EQUIPMENT, AND SHOW INTERCONNECTING WIRING.
- 42. PROVIDE RED PAINTED, STEEL FRAME(9"Wx12"H MIN.) CODE CARDS AND HOLDERS WITH GLASS WINDOW. EACH CODE CARD SHALL LIST THE ALARM CODE AND AREA SERVED BY EACH ALARM INITIATING CIRCUIT IN THE BUILDING. PROVIDE (1) ONE CODE CARD AND HOLDER AT EACH MANUAL FIRE ALARM STATION IN THE BUILDING AND AT THE FIRE ALARM CONTROL PANEL.
- 43. SMOKE DETECTOR SHALL BE MINIMUM 3'-0" AWAY FROM ANY HVAC REGISTER.

NEW YORK STATE OF MENTAL HEALTH (NYSOMH):

- 1. NYSOMH IS NOT AWARE OF ANY PATIENT-SAFE FIRE ALARM COMPONENTS.
- 2. FIRE ALARM NOTIFICATION DEVICES SHALL BE CEILING MOUNTED.
- INSTALL FIRE ALARM DEVICES WITH TAMPERPROOF SCREWS.
- INSTALL PULL STATION WITH KEY OPERATED ACTIVATION ONLY, UNLESS OTHERWISE DIRECTED BY THE FDNY.

FDNY FIRE ALARM PLAN ACCEPTED Subject to audibility & visibility throughout the premises FINAL APPROVAL SUBJECT TO INSPECTION

FDNY REFERENCE #: 2023-TMFALM-000954-PLAN

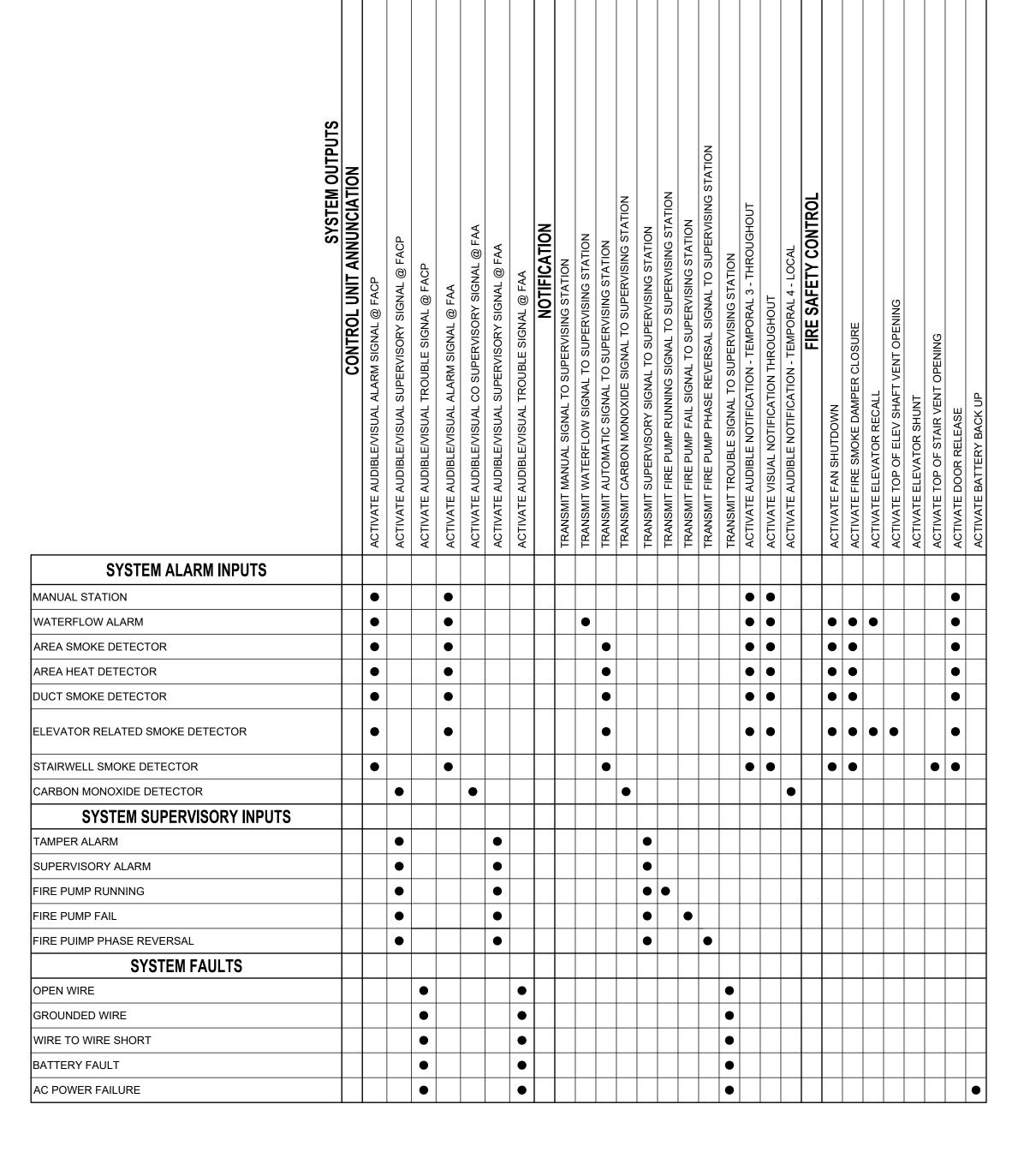
ACCEPTED WITH CONDITION(S): NO

If yes, specify:_

FIRE ALARM SYSTEM INPUT & OUTPUT MATRIX

DATE: 10/06/2023 EXAMINER: Naznin Fancy

EXAMINED FOR COMPLIANCE WITH BUILDING CODE SECTIONS BC 907 & BC 908 AND FIRE CODE SECTIONS FC 907 & FC 908 ONLY. APPLICANT IS RESPONSIBLE FOR COMPLIANCE WITH **BUILDING CODE APPENDIX Q 107 AND ROUTING OF WIRES IN ACCORDANCE WITH NYC ELECTRICAL CODE**



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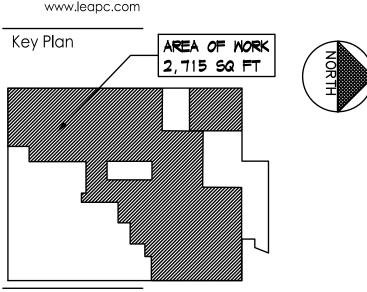
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Appd. YY.MM.DD Revision FDNY FILING Appd. YY.MM.DD Issued File Name: 7024.04-FA-002.dwg Dwn. Chkd. Dsgn. YY.MM.DD

Permit-Seal



Client/Project

RICHMOND UNIVERSITY MEDICAL CENTER TRANSFORMATIONAL GRANT

669 CASTLETON AVE, STATEN ISLAND, NY SECOND FLOOR PROPOSED RENOVATION

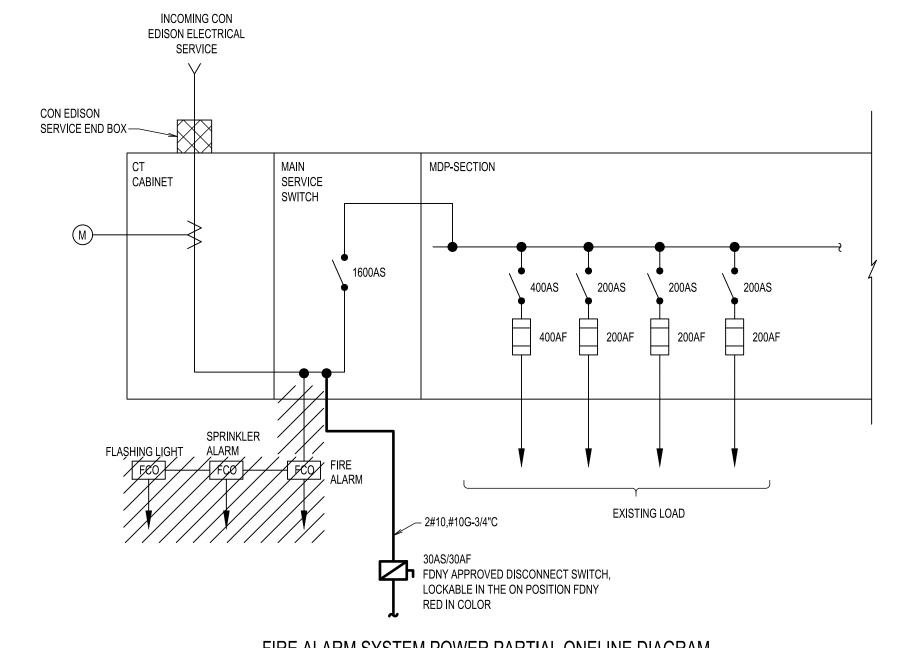
FIRE ALARM NOTES AND INPUT/OUTPUT MATRIX

Scale Project No. 225300004 Drawing No. Sheet

Revision

NONE

2 of 10

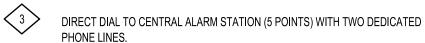


FIRE ALARM SYSTEM POWER PARTIAL ONELINE DIAGRAM NOT TO SCALE

NOTES:

1. REFER TO DRAWING FA-001.00 FOR SYMBOL LIST, ABBREVIATIONS AND NOTES.





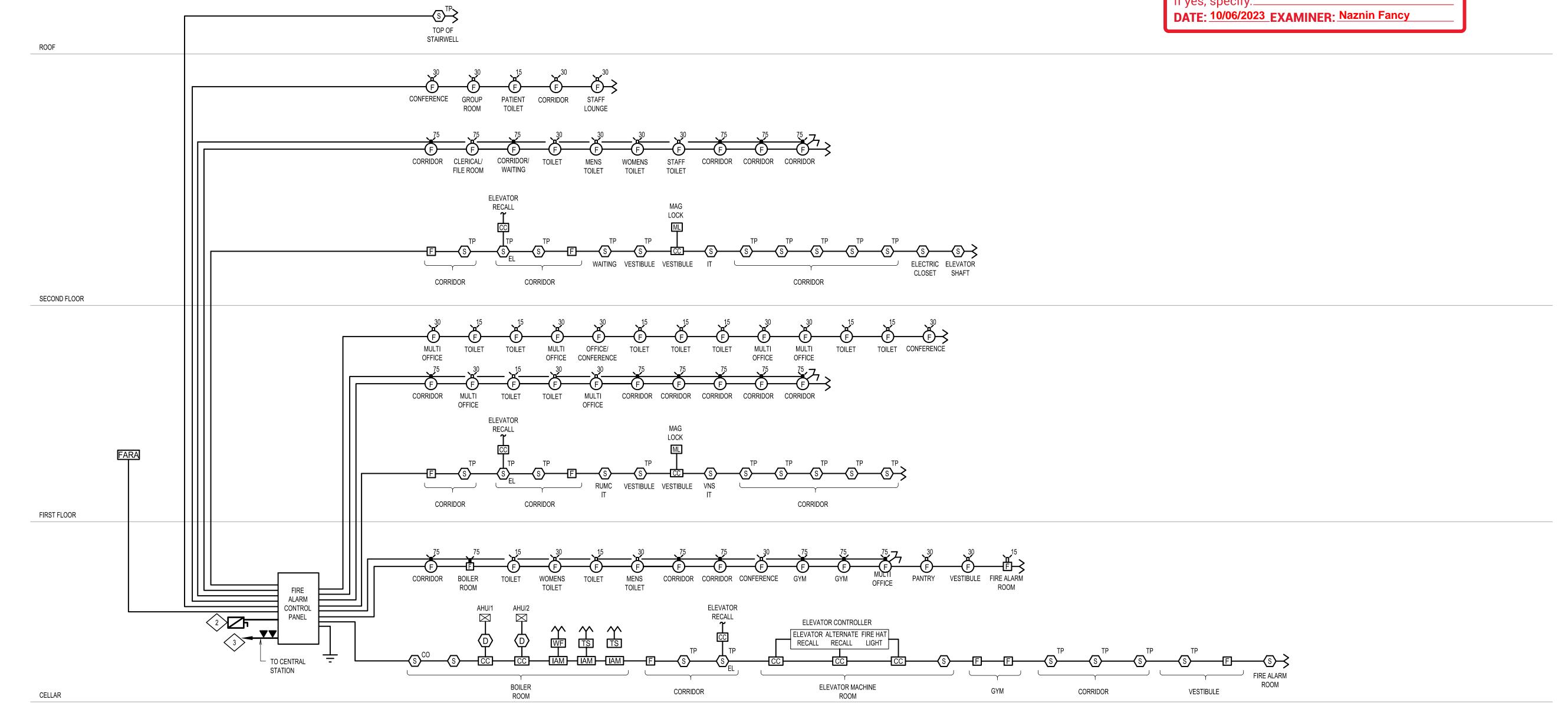
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FDNY FIRE ALARM PLAN ACCEPTED

Subject to audibility & visibility throughout the premises FINAL APPROVAL SUBJECT TO INSPECTION

FDNY REFERENCE #: 2023-TMFALM-000954-PLAN **ACCEPTED WITH CONDITION(S): NO**

If yes, specify:__



FIRE ALARM RISER DIAGRAM

NOT TO SCALE

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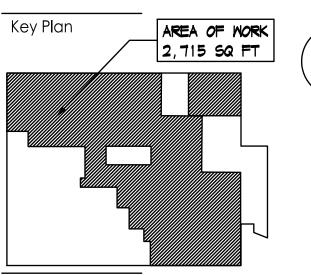
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Permit-Seal



Client/Project

RICHMOND UNIVERSITY MEDICAL CENTER TRANSFORMATIONAL GRANT

669 CASTLETON AVE, STATEN ISLAND, NY SECOND FLOOR PROPOSED RENOVATION

FIRE ALARM RISER DIAGRAM

Project No. 225300004

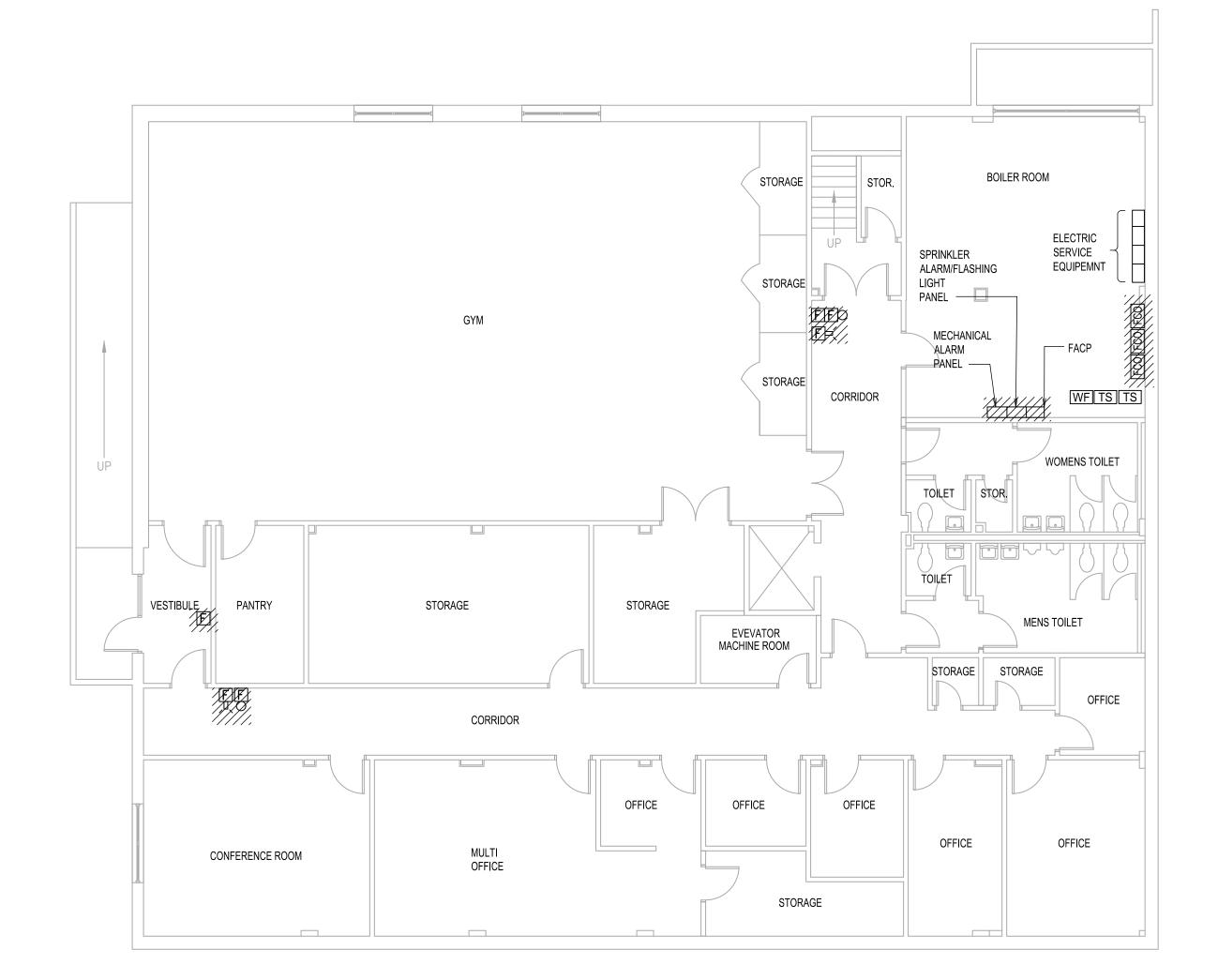
Drawing No.

Scale **AS NOTED**

> Sheet Revision

FA-003.00 3 of 10

1. REFER TO DRAWING FA-001.00 FOR SYMBOL LIST, ABBREVIATIONS AND NOTES.



CELLAR - DEMOLITION PLAN

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

MULTI MULTI OFFICE CONFERENCE OFFICE STORAGE MULTI TOILET OFFICE OFFICE OFFICE STORAGE OFFICE RUMC IT OFFICE OFFICE MULTI MULTI OFFICE OFFICE/ CONFERENCE ROOM OFFICE MULTI OFFICE OFFICE

FIRST FLOOR - DEMOLITION PLAN
SCALE: 1/8"=1'-0"

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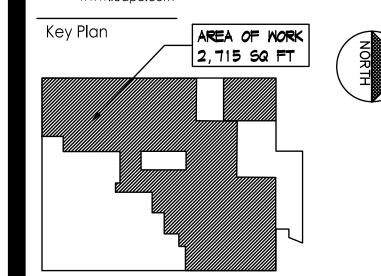
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RICHMOND UNIVERSITY MEDICAL CENTER TRANSFORMATIONAL GRANT

669 CASTLETON AVE, STATEN ISLAND, NY SECOND FLOOR PROPOSED RENOVATION

Title

CELLAR AND FIRST FLOOR DEMOLITION PLAN

Project No. Scale
225300004

Drawing No. Sheet

AS NOTED

Sheet Revision

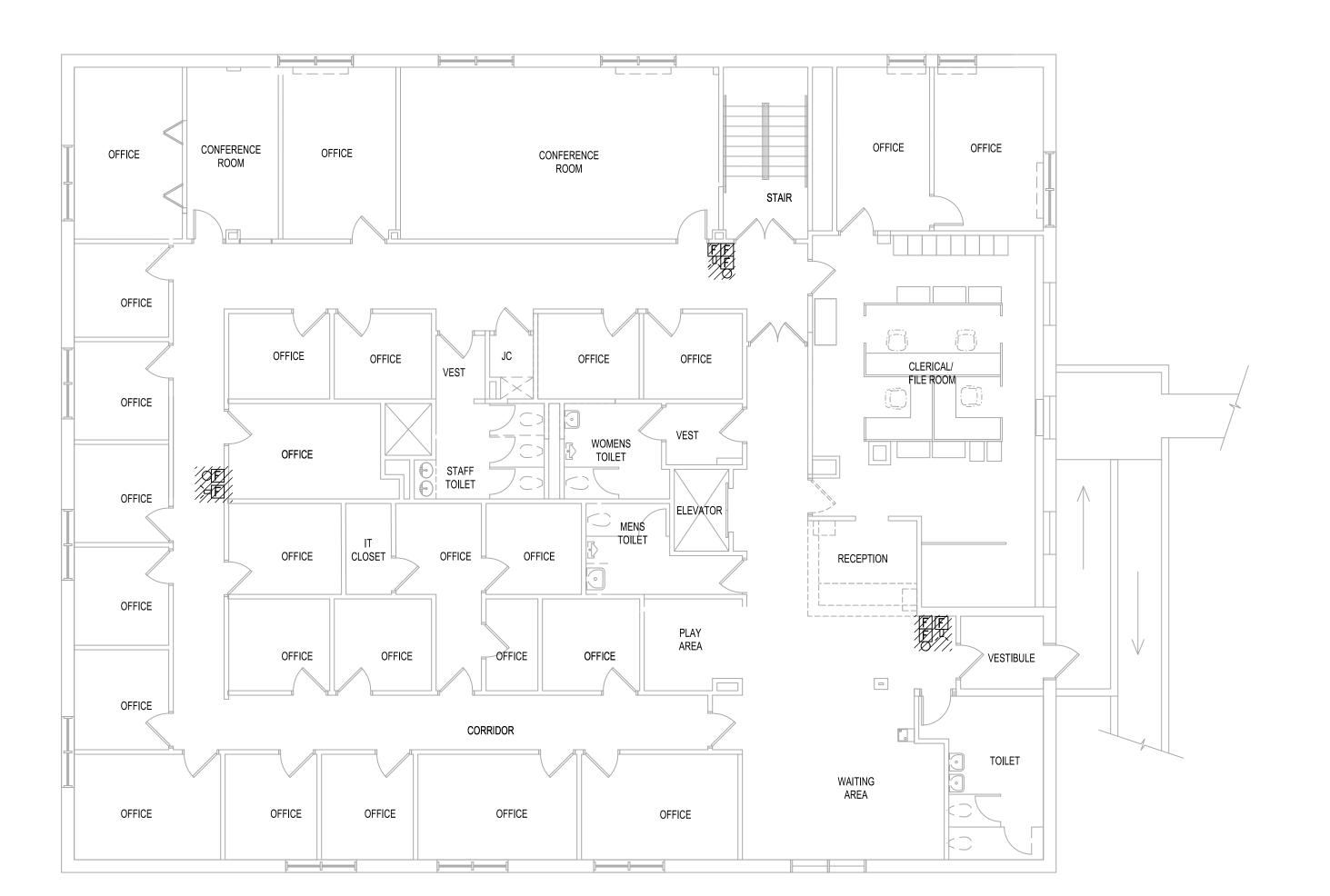
4 of 10

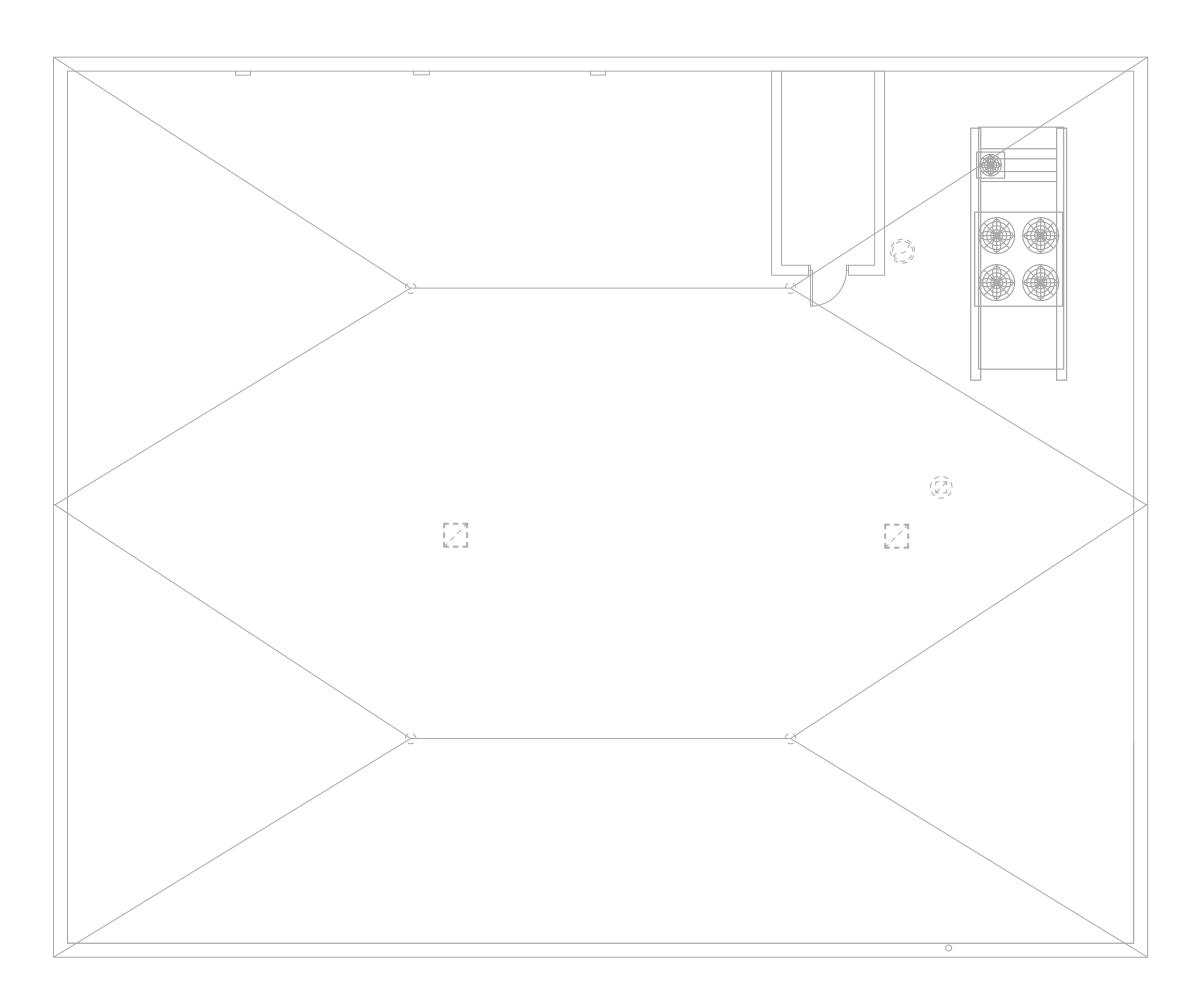
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3 4

1. REFER TO DRAWING FA-001.00 FOR SYMBOL LIST, ABBREVIATIONS AND NOTES.





SECOND FLOOR - DEMOLITION PLAN

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

ROOF - DEMOLITION PLAN

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

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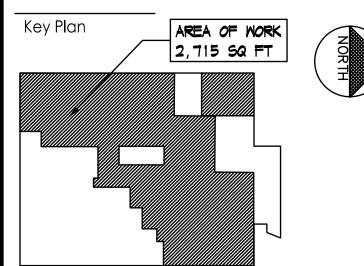
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Notes

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FDMV FILING			2022.4
FDNY FILING			2022.1
Issued	Ву	Appd.	YY.MA

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File Name: 7024.04-FA-102.dwg



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RICHMOND UNIVERSITY MEDICAL CENTER TRANSFORMATIONAL GRANT

669 CASTLETON AVE, STATEN ISLAND, NY SECOND FLOOR PROPOSED RENOVATION

Title

SECOND FLOOR AND ROOF DEMOLITION PLAN

Project No. Scale
225300004

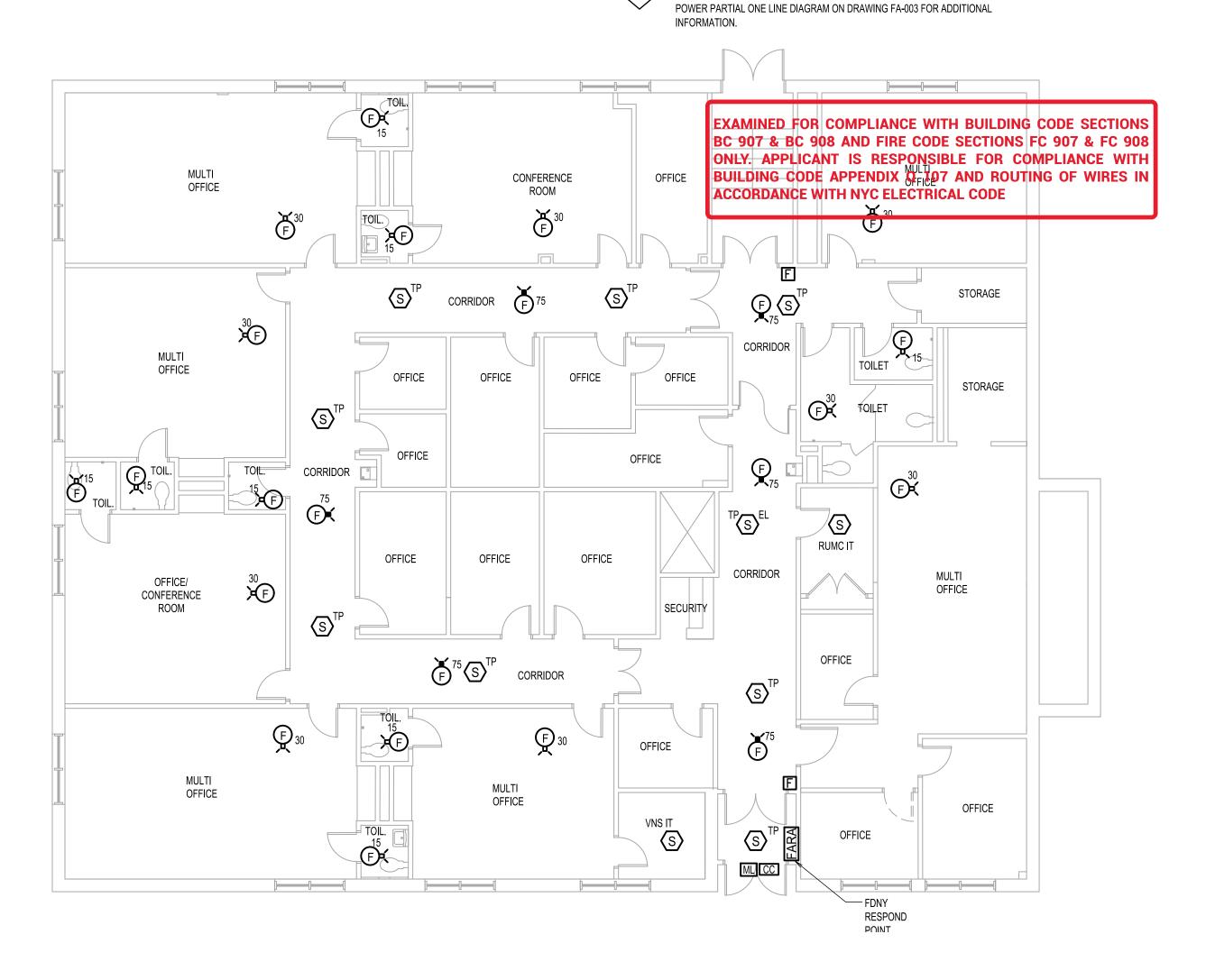
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CIRCUIT IN THE ROOM.

ALARM DEVICES.

1. REFER TO DRAWING FA-001.00 FOR SYMBOL LIST, ABBREVIATIONS AND NOTES.

FURNISH AND INSTALL NEW YORK CITY COMPLIANT LED EMERGENCY LIGHT MANUFACTURER BY ATLITE OR APPROVED EQUAL. CONNECT TO EXISTING LIGHTING

RETAIN THE SERVICES OF THE BUILDING'S ELEVATOR MAINTENANCE CONTRACTOR TO

MODIFY EXISTING ELEVATOR CONTROLLER AS REQUIRED TO ACCEPT NEW FIRE

30AS/30AF FDNY APPROVED DISCONNECT SWITCH, REFER TO FIRE ALARM SYSTEM

CELLAR - NEW WORK PLAN
SCALE: 1/8"=1'-0"

FIRST FLOOR - NEW WORK PLAN
SCALE: 1/8"=1'-0"

FDNY FIRE ALARM PLAN ACCEPTED
Subject to audibility & visibility throughout the premises
FINAL APPROVAL SUBJECT TO INSPECTION
FDNY REFERENCE #: 2023-TMFALM-000954-PLAN

ACCEPTED WITH CONDITION(S): NO

If yes, specify:__

DATE: 10/06/2023 EXAMINER: Naznin Fancy

EXAMINED FOR COMPLIANCE WITH BUILDING CODE SECTIONS BC 907 & BC 908 AND FIRE CODE SECTIONS FC 907 & FC 908 ONLY. APPLICANT IS RESPONSIBLE FOR COMPLIANCE WITH BUILDING CODE APPENDIX Q 107 AND ROUTING OF WIRES IN ACCORDANCE WITH NYC ELECTRICAL CODE

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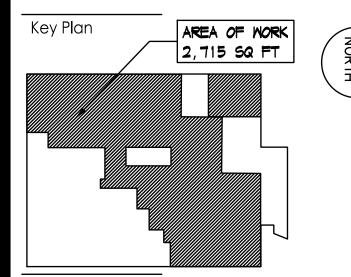
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RICHMOND UNIVERSITY MEDICAL CENTER TRANSFORMATIONAL GRANT

669 CASTLETON AVE, STATEN ISLAND, NY SECOND FLOOR PROPOSED RENOVATION

Title

CELLAR AND FIRST FLOOR - NEW WORK

Scale

Project No.
225300004

Drawing No.

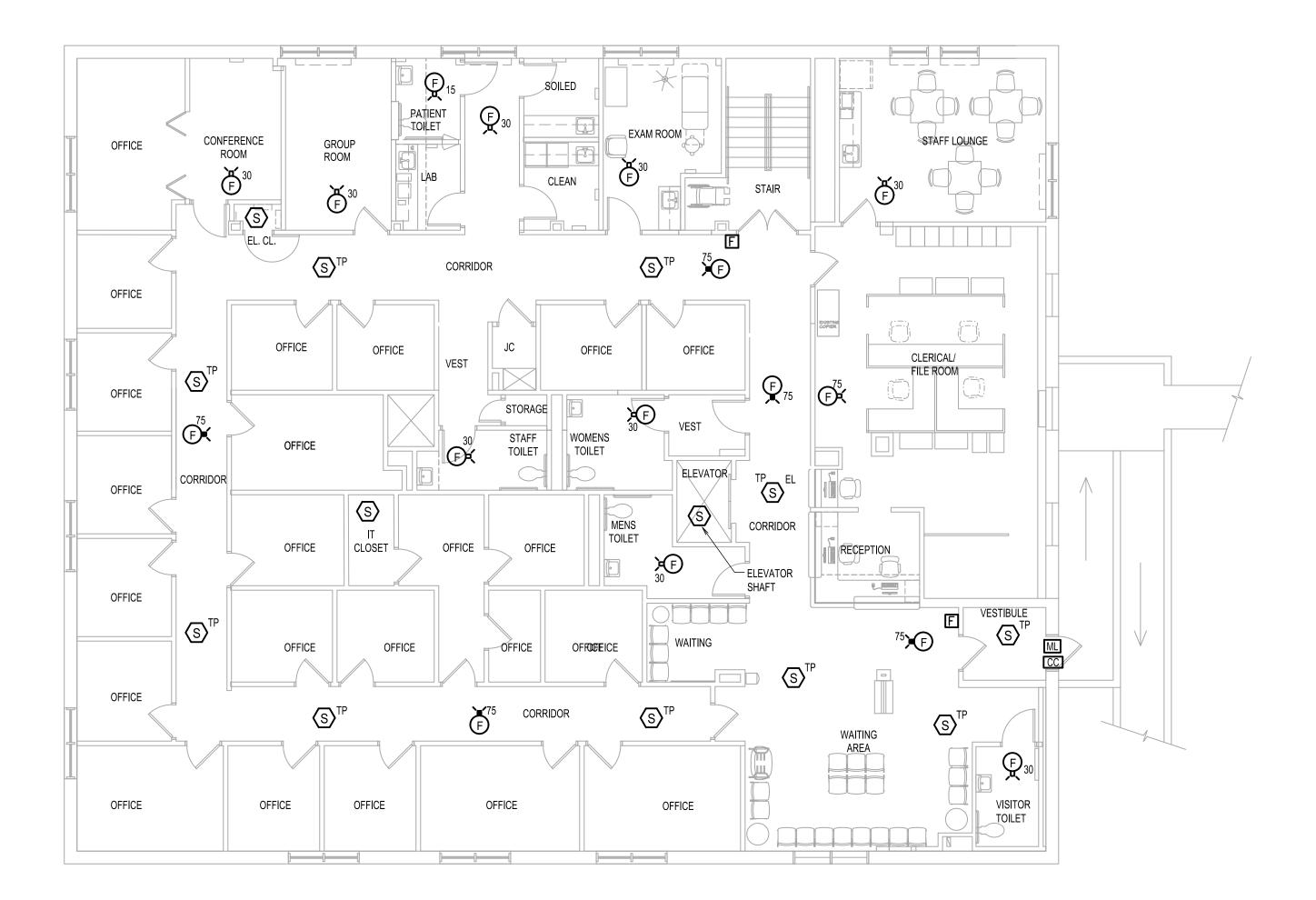
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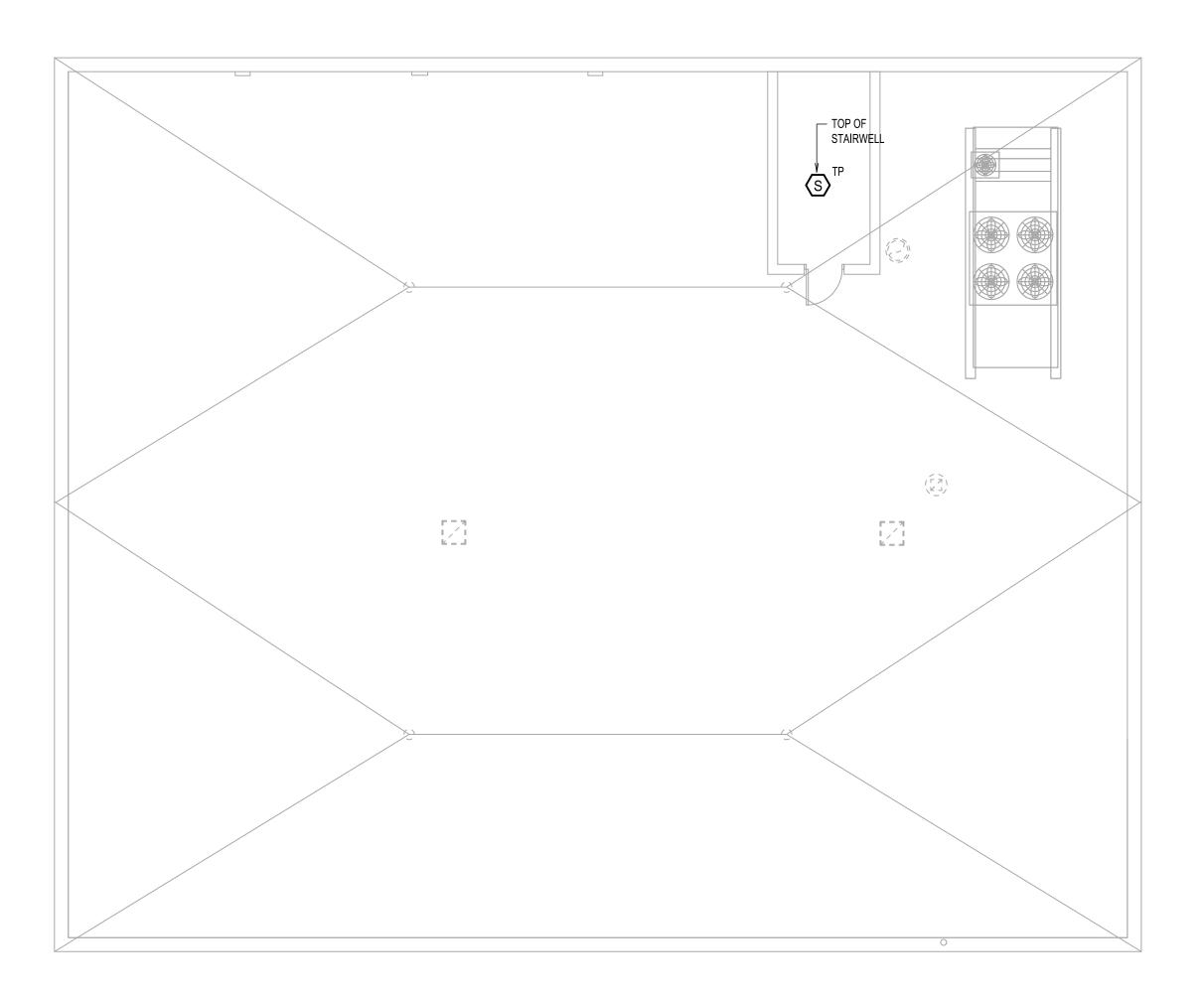
AS NOTED Sheet

Revision

6 of 00

1. REFER TO DRAWING FA-001.00 FOR SYMBOL LIST, ABBREVIATIONS AND NOTES.





SECOND FLOOR - NEW WORK PLAN

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

ROOF - NEW WORK PLAN
SCALE: 1/8"=1'-0"

FDNY FIRE ALARM PLAN ACCEPTED

Subject to audibility & visibility throughout the premises FINAL APPROVAL SUBJECT TO INSPECTION FDNY REFERENCE #: 2023-TMFALM-000954-PLAN **ACCEPTED WITH CONDITION(S): NO**

If yes, specify:___

DATE: 10/06/2023 EXAMINER: Naznin Fancy

EXAMINED FOR COMPLIANCE WITH BUILDING CODE SECTIONS BC 907 & BC 908 AND FIRE CODE SECTIONS FC 907 & FC 908 ONLY. APPLICANT IS RESPONSIBLE FOR COMPLIANCE WITH BUILDING CODE APPENDIX Q 107 AND ROUTING OF WIRES IN **ACCORDANCE WITH NYC ELECTRICAL CODE**

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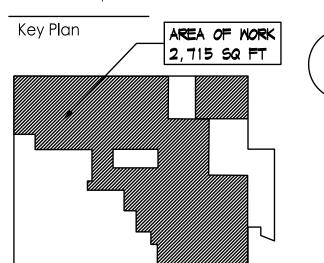
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RICHMOND UNIVERSITY MEDICAL CENTER TRANSFORMATIONAL GRANT

669 CASTLETON AVE, STATEN ISLAND, NY SECOND FLOOR PROPOSED RENOVATION

SECOND FLOOR AND ROOF - NEW **WORK PLAN**

Project No. 225300004 Drawing No.

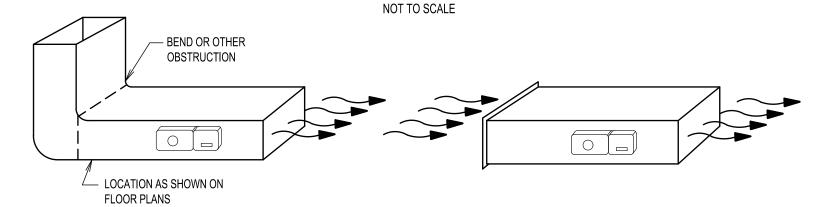
Scale AS NOTED

ORIGINAL SHEET - ARCH D

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Sheet

TYPICAL INSTALLATION USING AIR SAMPLING TUBES



TYPICAL DUCT SMOKE DETECTOR PLACEMENT NOT TO SCALE

CONTROL CIRCUIT

__ 2#12-3/4"C

INTERRUPT CONTROL CIRCUIT AT OVERLOADS

THE FAN CONTROL CIRCUIT ALLOWING THE FAN TO OPERATE NORMALLY.

DIFFERENT TIME INTERVALS.

POWER SUPPLY

OFF

AUTO

HOA SWITCH

RELAY COIL OF

- CONTROL CONTACTS (CC) WITH INTELLIGENT RELAY LOCATED

NEAR A.C. UNITS AND FANS. CONTACTS SHALL NOT RESET UPON FIRE ALARM SYSTEM RESET, RESET SHALL OCCUR WITH THE

ACTIVATION OF A DEDICATED FAN RESET SWITCH ON THE FACP.

(ADDRESSABLE INTERFACE MODULE WITH RELAY)

TO NEXT FAN SHUTDOWN CONTROL CONTACT

TO NEXT INTELLIGENT DEVICE

CONTROL CONTACTS (N/O) CLOSE ENERGIZING THE LOAD CONTROL RELAY COIL. THE NORMALLY OPEN CONTACTS ON LOAD CONTROL RELAY (#1 & #4) CLOSE COMPLETING

FIRE ALARM SYSTEM OPENS CONTROL CONTACTS DE-ENERGIZING THE LOAD CONTROL RELAY WHICH IN TURN INTERRUPTS THE FAN CONTROL CIRCUIT, STOPPING THE FAN.

TYPICAL FAN SHUTDOWN WIRING DIAGRAM BETWEEN ONE (1) INTERFACE RELAY AND AND MOTOR STARTER - TWO WIRE CONTROL CIRCUITS

NOT TO SCALE

FIRE ALARM SYSTEM RE-CLOSES THE (N/O) CONTROL CONTACTS RE-ENERGIZING THE LOAD CONTROL RELAY WHICH IN-TURN COMPLETES THE FAN CONTROL CIRCUIT. TO LIMIT ELECTRICAL DEMAND, THE CONTROL CONTACTS SHALL RECLOSE SEQUENTIALLY WITH AN ADJUSTABLE TIME DELAY TO ALLOW GROUPS OF FANS TO BE RE-STARTED AT

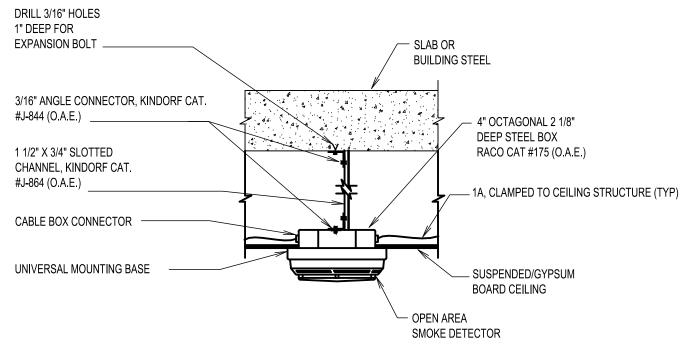
CONTACTOR

HVAC SAIL (VEIN) SWITCH

(INSTALL IN HVAC WORK) -

LOAD CONTROL RELAY 24VDC INPUT, 2 POLE INTERFACE RELAY FOR 250V, 10A CONTACTS, FOR FAN SHUTDOWN IN NEMA 1 ENCLOSURE. RELAY SHALL BE LOCATED NEAR CONTROL

CONTACTS (CC) AND STARTER —



* MOUNT DETECTOR MINIMUM 3'-0" AWAY FROM ANY HVAC REGISTERS

SMOKE/HEAT DETECTOR INSTALLATION (FOR SUSPENDED CEILING)

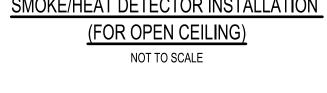
NOT TO SCALE

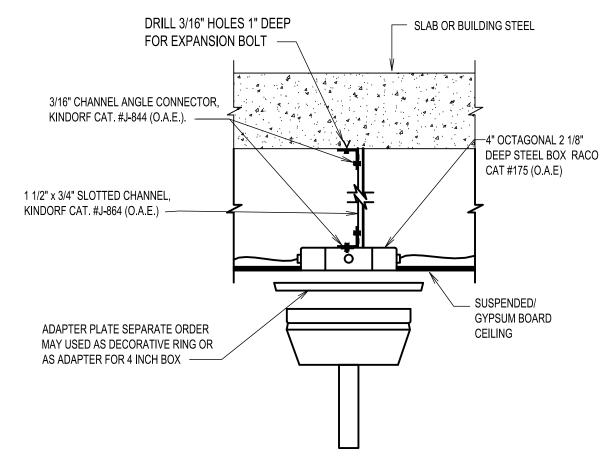
DRILL 3/16" HOLES 1" DEEP FOR CONCRETE INSERTS OR EXPANSION SLEEVE AND USE #10 SHEET METAL SCREW WITH WASHER. ___ SLAB → 30" FIRST CLAMP UNIVERSAL MOUNTING BASE OPEN AREA SMOKE 4" OCTAGONAL 2 1/8" DEEP STEEL BOX

* MOUNT DETECTOR MINIMUM 3'-0" AWAY FROM ANY HVAC REGISTERS

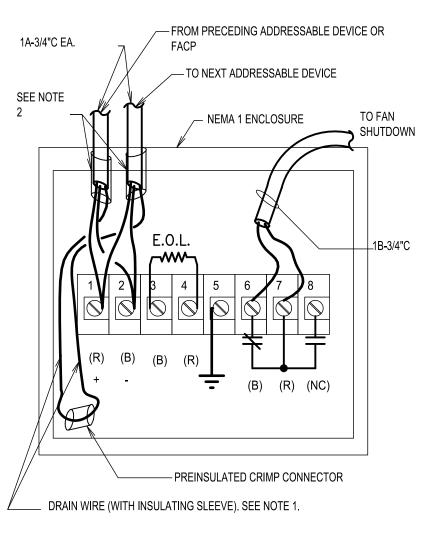
SMOKE/HEAT DETECTOR INSTALLATION (FOR OPEN CEILING)

RACO CAT #175 (O.A.E.)

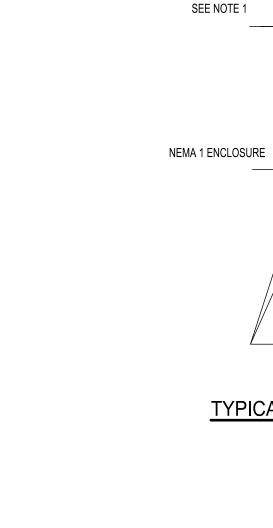


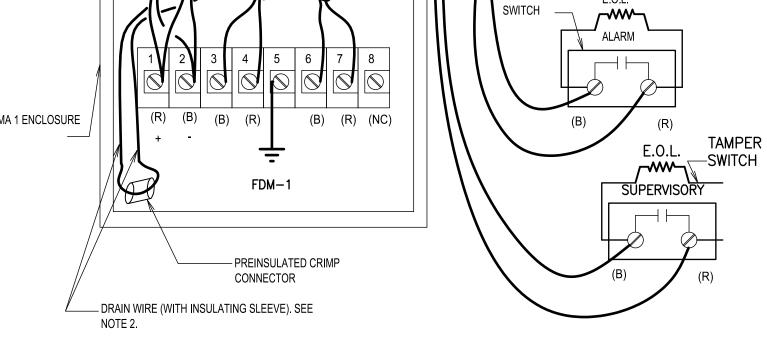


WEATHERPROOF HEAT DETECTOR NOT TO SCALE



TYPICAL WIRING FOR FAN-SHUTDOWN NOT TO SCALE





TYPICAL SPRINKLER WATERFLOW/TAMPER SWITCH WIRING DIAGRAM NOT TO SCALE

NOTES:

- 1. INSULATE SHIELD AND DRAIN WIRE AS INDICATED ON TYPICAL SHIELD/DRAIN INSULATING METHOD
- SHIELD MUST BE CONTINUOUS AND INSULATED FROM BOXES, CONDUITS,

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 $ar{eta}$ FROM PRECEDING OR TO NEXT DEVICE ON THE CIRCUIT.

- EMT IN EXPOSED AREAS AND EXPOSED CEILING

- SBB BACKBOX FOR SPEAKER OR

STROBE/SPEAKER COMBINATION UNIT. "OR"

- FINISHED FLOOR

SHBB BACKBOX FOR STROBE UNIT. "OR"

MS-FB BACKBOX FOR PULL STATION

- HORN

TO NEXT ADDRESSABLE DEVICE

WATERFLOW

STROBE (OR PULL STATION)

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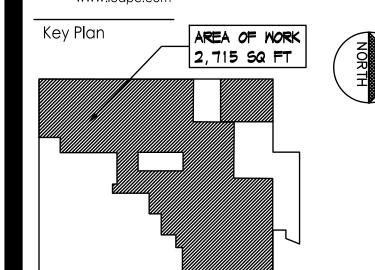
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RICHMOND UNIVERSITY MEDICAL CENTER TRANSFORMATIONAL GRANT

669 CASTLETON AVE, STATEN ISLAND, NY SECOND FLOOR PROPOSED RENOVATION

FIRE ALARM DETAILS

Scale Project No. **AS NOTED** 225300004 Drawing No.

ORIGINAL SHEET - ARCH D

INTELLIGENT

SYSTEM NOTES

FAN-SHUT DOWN:

DATA LOOP

NORMAL:

FAN RESET:

FINISHED FLOOR TYPICAL RECESSED MOUNTED STROBE, PULL STATION INSTALLATION NOT TO SCALE

FROM PRECEDING OR TO NEXT DEVICE ON THE CIRCUIT. - SUSPENDED CEILING - 3/4" FLEXIBLE METALLIC CONDUIT SEE NOTE 3 & 4 2" DEEP SINGLE GANG STEEL SWITCHBOX FOR STROBE OR 3 1/2" DEEP BOX FOR PULL STATION — SOLID GYPSUM **BOARD WALL** NOTE 3 & 4

- INSULATED BUSHING

AT END OF CONDUIT

NOTES:

TYPICAL SURFACE MOUNTED (UNFINISHED AREA) PULL STATION, STROBE, SPEAKER OR COMBINATION INSTALLATION NOT TO SCALE

SEE NOTE 3 & 4

SEE

NOTE 3 & 4

- 1. FOR SYMBOL LIST, ABBREVIATIONS AND NOTES REFER TO DRAWINGS ##### AND #####.
- REFER TO DRAWINGS ##### AND ##### FOR FLOOR PLANS.
- INSTALL STROBES AND/OR HORN/STROBE COMBINATION DEVICES AT 80" ABOVE FINISHED FLOOR (AFF) OR 6" BELOW THE FINISHED CEILING, OR WHICHEVER IS LOWEST. INSTALL PULL STATION AT 48" AFF (TO CENTER OF UNIT).
- INSTALL THE FIRE ALARM DEVICE AT 80" ABOVE FINISHED FLOOR (AFF) OR 6" BELOW THE UN-SUSPENDED CEILING OR WHICHEVER IS LOWEST. INSTALL PULL STATION AT 48" AFF (TO CENTER OF UNIT).

- FROM PRECEDING ADDRESSABLE DEVICE OR FACP

A. BASIC SYSTEM DESCRIPTION

- THE FIRE ALARM SYSTEM SHALL BE INTELLIGENT DEVICE ADDRESSABLE, ANALOG DETECTING, LOW VOLTAGE AND MODULAR, WITH DIGITAL COMMUNICATION TECHNIQUES, IN FULL COMPLIANCE WITH ALL APPLICABLE CODES AND STANDARDS. GENERIC TERMS SUCH AS "SUB SYSTEM", "THE SYSTEM", "A SYSTEM", "THE FIRE ALARM SYSTEM", ETC. SHALL BE DEEMED TO APPLY TO THE COMPLETE INTELLIGENT ANALOG ADDRESSABLE FIRE ALARM SYSTEM, UNLESS SPECIFICALLY NOTED ELSEWHERE. THE SYSTEM SHALL PROVIDE EVACUATION ALARM SIGNALING USING SOUNDING DEVICES TO SOUND THE ALARM EVACUATION SIGNALS AND STROBE LIGHTS AS VISUAL NOTIFICATION DEVICES.
- 2. CHANGES IN THE STATUS OF MONITORED POINTS SHALL BE DETECTED BY THE FACP UTILIZING DISTRIBUTED PROCESSING, PEER-TO-PEER NETWORKING.
- 3. ALL LIFE SAFETY ALARM FUNCTIONS SHALL PERFORM AUTOMATICALLY. CONTROL POINTS SHALL BE CAPABLE OF OPERATING MANUALLY AT ANY TIME THROUGH THE FACP. SWITCHES SHALL BE PROVIDED AT THE FACP WHICH SHALL TRIGGER INTEGRAL PROGRAMMABLE FUNCTIONS TO ALLOW PERSONNEL TO MANUALLY OPERATE PRE-PROGRAMMED CONTROL OUTPUT FUNCTIONS AS REQUIRED. PROGRAMMING OF THESE FUNCTIONS SHALL BE
- 4. THE FOLLOWING NON-ADDRESSABLE DEVICES SHALL BE INTEGRATED INTO THE FIRE ALARM SYSTEM VIA ADDRESSABLE INTERFACE MODULES:
 - SPRINKLER WATER FLOW (ALARM INITIATING).
 - SPRINKLER VALVE TAMPER SWITCH (SUPERVISORY). c. OTHER DEVICES REQUIRED TO BE MONITORED BY THE FACP.
- 5. THE FOLLOWING AUDIBLE AND VISUAL SIGNALING DEVICES SHALL BE CONTROLLED BY THE FACP:

 - STROBE LIGHTS (SYNCHRONIZED).
- COMBINATION HORN-STROBE UNITS.
- 6. THE FOLLOWING DEVICES SHALL BE CONTROLLED BY THE FACP VIA REMOTE SYSTEM ADDRESSABLE RELAYS AND INTELLIGENT ADDRESSABLE INTERFACE MODULE RELAYS:
 - AIR HANDLING FAN SHUTDOWN OPERATION. ELEVATOR CONTROLS FOR ELEVATOR RECALL.
- 7. THE SYSTEM AS DESCRIBED SHALL BE INSTALLED, PROGRAMMED, TESTED, AND DELIVERED TO THE OWNER IN FULLY OPERATIONAL CONDITION. THE SYSTEM SHALL INCLUDE ALL REQUIRED HARDWARE, SOFTWARE, RACEWAYS AND WIRING TO ACCOMPLISH THE REQUIREMENTS OF THIS SPECIFICATION AND THE CONTRACT DRAWINGS, WHETHER OR NOT SPECIFICALLY ITEMIZED HEREIN.

B. MANUFACTURERS

- 1. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
 - a. NOTIFIER b. SEIMENS, CERBERUS DIVISION
- 2. EQUIPMENT FURNISHED SHALL BY ONE OF THE LISTED "MANUFACTURERS". ALL INFORMATION HEREIN AND CATALOG NUMBERS ARE INTENDED TO ESTABLISH MINIMUM STANDARDS OF PERFORMANCE, QUALITY AND CONSTRUCTION AND IS BASED ON PYROTRONICS MXL ADDRESSABLE ANALOG EQUIPMENT DESIGNED AND MANUFACTURED BY SIEMENS CERBERUS DIVISION. IT IS NOT THE INTENT OF THESE SPECIFICATIONS TO ELIMINATE COMPETITIVE EQUIPMENT.
- C. ADDRESSABLE FIRE ALARM SYSTEMS
 - 1. THE FACP SHALL BE EQUIPPED WITH THE NECESSARY COMPONENTS TO COMMUNICATE VIA A RS-485, PEER-TO-PEER, MULTIPLE ACCESS PROTOCOL, CARRIER SENSE, MULTIPLE ACCESS, COLLISION DETECT, ALSO KNOWN AS CSMA/CD AN ETHERNET TYPE PROTOCOL. THESE SYSTEMS DEVICES MAY BE CONNECTED AS NETWORK "NODES" CONNECTING EACH SYSTEM NODES THROUGH A NETWORK INTERFACE MODULE (NIM). STATUS CHANGE IN ANY NETWORK NODE SHALL BE SENT TO ALL OTHER NODES FOR PROCESSING AND LOCAL OPERATIONS AS REQUIRED FOR THE PROJECT. NETWORK DATA COMMUNICATIONS SHALL BE NFPA STANDARD 72, STYLE 7, TWO-CONDUIT
 - THE FACP SHALL PROVIDE NFPA STANDARD 72, STYLE 4 (CLASS B) OPERATION WITH LOOP ISOLATOR ANALOG SIGNALING CIRCUITRY REQUIRED TO COMMUNICATE WITH, AND RECEIVE ALARMS FROM UP TO SIXTY INTELLIGENT ANALOG ALARM INITIATING AND SIXTY INTELLIGENT CONTROLLABLE OUTPUT DEVICES. ANALOG LOOPS SHALL BE CONFIGURED WITH LOOP ISOLATORS AND WIRED IN A MANNER THAT PREVENTS A CATASTROPHIC WIRING EVENT ON A FLOOR FROM AFFECTING THE PERFORMANCE OF OTHER FLOORS. ANALOG LOOPS SHALL BE ARRANGED SUCH THERE IS A MINIMUM OF 20 PERCENT SPARE CAPACITY ON EVERY LOOP TO ALLOW FOR FUTURE EXPANSION. SYSTEMS ALLOWING MORE THAN SIXTY INPUT OR OUTPUT DEVICES PER ADDRESSABLE LOOP SHALL BE WIRED IN A STYLE 6 (CLASS A) CONFIGURATION WITH RACEWAY DESIGN CONFIGURED TO ALLOW A MAXIMUM OF ONE SECTION OF THE LOOP WITHIN A SINGLE RACEWAY. THESE LOOPS MUST ALSO BE ARRANGED SUCH THERE IS 20 PERCENT SPARE CAPACITY ON EVERY LOOP TO ALLOW FOR FUTURE EXPANSION.
 - THE FACP SHALL PROVIDE NFPA 72, STYLE Y, TWO-WIRE, SUPERVISED, ALARM INDICATING APPLIANCE CIRCUITS. GENERAL FLOOR AUDIBLE NOTIFICATION APPLIANCE CIRCUITS SHALL, AS A MINIMUM, CONSIST OF TWO (2) CIRCUITS PER FLOOR. CIRCUITS SHALL BE INSTALLED IN AN ALTERNATE STYLE, SO THAT 50 PERCENT OF THE AUDIBLE DEVICES INSTALLED WOULD BE OPERATIONALLY FUNCTIONAL SHOULD ONE CIRCUIT FAIL. AUDIBLE NOTIFICATION APPLIANCES SHALL BE POWERED BY DEDICATED NOTIFICATION CIRCUITS. VISUAL NOTIFICATION APPLIANCES SHALL BE POWERED BY DEDICATED INDICATION CIRCUITS. AUDIBLE APPLIANCES AND VISUAL APPLIANCES SHALL NOT BE POWERED BY THE SAME INDICATION CIRCUIT. COMBINATION AUDIBLE/VISUAL DEVICES MAY BE USED, BUT SHALL BE WIRED SEPARATELY. THE SYSTEM SHALL BE PROGRAMMED TO ALLOW SILENCING OF ALARM AUDIBLE NOTIFICATION HORN DEVICES WITHOUT TURNING OFF VISUAL NOTIFICATION STROBE DEVICES. ALARM INDICATING STROBE DEVICES SHALL STOP UPON RESET OF FACP ONLY.

- 4. THE SYSTEM SHALL OPERATE WITH A CORE PROCESSOR WITH INTERNAL OPERATING SYSTEM PROCESSING INCOMING ALARM SIGNALS AND ISSUING OUTPUT COMMANDS REQUIRED WITH A SYSTEM RESPONSE TIME LESS THAN 2.5 SECONDS ON A SYSTEM CONFIGURED TO MAXIMUM CAPACITY. THE SYSTEM SHALL FUNCTION BY AUTOMATIC PROGRAMMING OR BY MANUAL COMMANDS. ALL SYSTEM PROCESSORS SHALL BE SUPERVISED BY INDIVIDUAL WATCHDOG CIRCUITRY FURNISHING AUTOMATIC RESTART AFTER LOSS OF ACTIVITY. MULTIPLE PROCESSORS WITH A SINGLE WATCHDOG CIRCUIT IS NOT ACCEPTABLE UNLESS SUPPLIED WITH A "HOT" STANDBY CPU. PROVIDE DIGITAL COMMUNICATION CAPABILITIES REQUIRED FOR THE FACP TO COMMUNICATE WITH REMOTE PANELS, INPUT/OUTPUT DRIVERS AND DISPLAYS. DETECTOR "DIRTY" TROUBLE CONDITIONS SHALL REPORT AUTOMATICALLY. SMOKE DETECTORS SHALL OPERATE AT THEIR PROGRAMMED SETTINGS AND SHALL NOT REVERT TO SYSTEM DEFAULT SETTINGS AT ANY TIME. IT SHALL BE POSSIBLE TO ADJUST OR ELECTRONICALLY MEASURE THE SENSITIVITY OF EACH INDIVIDUAL INTELLIGENT ANALOG SMOKE SENSOR FROM THE FACP. RELATIVE SENSITIVITY OR MANUAL TEST METHODS WHICH CHECK THE SMOKE SENSOR AT THE MAXIMUM ALLOWABLE OBSCURATION WILL NOT BE CONSIDERED AS BEING EQUIVALENT.
- THE FACP ADDRESSABLE DATA COMMUNICATIONS CIRCUITS SHALL SUPPORT ONE HUNDRED PERCENT (100 PERCENT) OF THE ADDRESSABLE DEVICES IN ALARM OR OPERATED AT THE SAME TIME, DURING BOTH PRIMARY (AC) AND SECONDARY (BATTERY) POWER CONDITIONS.
- PROVIDE SYSTEM POWER SUPPLIES, INCLUDING NECESSARY TRANSFORMERS, RECTIFIERS, REGULATORS, FILTERS AND SURGE PROTECTION REQUIRED FOR SYSTEM OPERATION, WITH THE CAPACITY TO POWER THE SYSTEM IN A WORST CASE CONDITION WITH ALL DEVICES IN ALARM AND ALL LOCAL INDICATING APPLIANCES ACTIVE WITHOUT EXCEEDING 80 PERCENT OF THE LISTED RATINGS. ALL SYSTEM DEVICES SHALL DISPLAY NORMAL AND ALARM CONDITIONS WHETHER OPERATING FROM NORMAL (PRIMARY) POWER OR BATTERY (SECONDARY) POWER. SYSTEMS NOT DISPLAYING AN ALARM INDICATION AT EACH DEVICE WHEN THE SYSTEM IS IN A STANDBY POWER MODE SHALL INCLUDE AN ADDRESSABLE REMOTE LED INDICATOR AT THE DEVICE TO PERFORM THIS FUNCTION.
 - SYSTEM PRIMARY POWER: PRIMARY POWER FOR THE FACP AND THE SECONDARY POWER BATTERY CHARGERS SHALL BE OBTAINED FROM A DEDICATED DISCONNECT SWITCH. DISCONNECT SWITCH SHALL BE FDNY APPROVED.
 - SECONDARY POWER SUPPLY: PROVIDE SEALED GELLED ELECTROLYTE BATTERIES AS THE SECONDARY POWER SUPPLY FOR ALL FIRE ALARM FUNCTIONS. THE BATTERY SUPPLY CAPACITY SHALL OPERATE THE SYSTEM IN A SUPERVISORY MODE FOR TWENTY-FOUR (24) HOURS WITH NO PRIMARY POWER APPLIED, AND AFTER 24 HOURS, OPERATE IN AN ALARM MODE FOR FIFTEEN (15) MINUTES. BATTERIES SHALL BE SIZED AT 125 PERCENT OF THE CALCULATED SIZE TO COMPENSATE FOR DETERIORATION AND AGING DURING THE BATTERY LIFE CYCLE. PROVIDE BATTERY CHARGING CIRCUITRY FOR EACH STANDBY BATTERY BANK IN THE SYSTEM. THE CHARGER SHALL BE AUTOMATIC IN DESIGN. ADJUSTING THE CHARGE RATE TO THE CONDITION OF THE BATTERIES. ALL SYSTEM BATTERY CHARGE RATES AND TERMINAL VOLTAGES SHALL BE VISIBLE USING THE FACP DISPLAY IN THE SERVICE MODE, INDICATING DIRECTLY IN VOLTS AND AMPS. METERS READING IN PERCENTAGE ARE NOT ACCEPTABLE.
- MANUAL PULL STATIONS: ADDRESSABLE, DUAL ACTION AND LISTED BY UL. THE PULL STATION SHALL OPERATE ON ANY ADDRESSABLE DETECTION CIRCUIT AND BE INDIVIDUALLY ANNUNCIATED ON THE CONTROL PANEL. PULL STATIONS SHALL BE RED IN COLOR AND MOUNTED 48 INCHES TO THE STATION ACTUATION HANDLE FROM THE FINISHED FLOOR.
- AREA SMOKE SENSORS: INTELLIGENT, ADDRESSABLE PHOTOELECTRIC TYPE AND LISTED BY SENSOR SHALL BE ULLISTED. THE SMOKE SENSOR SHALL CONTAIN A LONG LIFE, LIGHT EMITTING DIODE (LED) AS ITS LIGHT SOURCE, AND A PHOTO DIODE AS THE LIGHT RECEIVER. AN AUTOMATIC GAIN CONTROL CIRCUIT SHALL COMPENSATE FOR DETECTOR AGING AND DIRT ACCUMULATION. THE SENSOR SHALL HAVE AN APPLICATION SPECIFIC DETECTION SENSITIVITY SETTING WHICH SHALL BE PROGRAMMED AS DIRECTED BY THE DESIGN PROFESSIONAL. EACH SMOKE SENSOR SHALL HAVE A FLASHING LED INDICATOR WHICH SHALL FLASH A DIFFERENT COLOR FOR ALARM, TROUBLE AND NORMAL OPERATION. THE SMOKE SENSORS SHALL HAVE ANALOG ADDRESSABLE COMMUNICATION WITH FIRE ALARM CONTROL PANEL. PROVIDE AUDIBLE BASES WHERE INDICATED.
- DUCT SMOKE SENSORS: EACH DETECTOR AND HOUSING SHALL BE SELF-COMPENSATING FOR THE EFFECTS OF AIR VELOCITY (FROM 300 TO 4000 CFM), TEMPERATURE, HUMIDITY, AND ATMOSPHERIC PRESSURE. PROVIDE SAMPLING TUBE TO SPAN ENTIRE DUCT WIDTH OR PROVIDE ADDITIONAL DETECTORS 2 FEET ON CENTER FOR DUCTS WIDER THAN 3 FEET. EACH SMOKE SENSOR SHALL UTILIZE SOLID STATE COMPONENTS AND SHALL BE PROVIDED WITH A FORM "C" REMOTE RELAY WITH CONTACTS RATED AT 3 AMPS 120 VAC OR 24 VDC. PROVIDE A REMOTE LED INDICATING DETECTOR ALARM STATUS MOUNTED IN A VISIBLE LOCATION WHERE THE LOCATION OF THE DUCT SMOKE SENSORS AND ALARM STATUS INDICATOR IS NOT DIRECTLY DISCERNABLE.
- 10. HEAT DETECTORS: INTELLIGENT, ADDRESSABLE, FIXED TEMPERATURE AND/OR 135 DEGREES FAHRENHEIT RATE COMPENSATION/FIXED TEMPERATURE THERMISTOR ELEMENT HEAT DETECTOR. UNIT SHALL BE UL LISTED FOR A MAXIMUM COVERAGE AREA OF 2,500 SQUARE FEET. THE RATE-OF-RISE ALARM THRESHOLD RATE SHALL BE 15 DEGREES FAHRENHEIT PER MINUTE AND SHALL BE SELF-RESTORING. THE HEAT DETECTOR FIXED ELEMENT SHALL NOT BE SELF-RESTORING. THE DETECTORS SHALL BE INDIVIDUALLY ANNUNCIATED ON THE CONTROL PANEL. THERMAL DETECTORS SHALL CONTAIN AN INTEGRAL ALARM LAMP.
- 11. HIGH TEMPERATURE HEAT DETECTORS: FIXED TEMPERATURE 200 DEGREES CONVENTIONAL (NON-ADDRESSABLE) COMPENSATION/FIXED TEMPERATURE ELEMENT HEAT DETECTOR. UNIT SHALL BE UL LISTED FOR A MAXIMUM COVERAGE AREA OF 625 SQUARE FEET OF THE FIXED TEMPERATURE ELEMENT. THE RATE-OF-RISE ALARM THRESHOLD RATE SHALL BE 15 DEGREES FAHRENHEIT PER MINUTE AND SHALL BE SELF-RESTORING. THE HEAT DETECTOR FIXED ELEMENT SHALL NOT BE SELF-RESTORING. THE DETECTORS SHALL BE INDIVIDUALLY ANNUNCIATED ON THE CONTROL PANEL BY MEANS OF INTERFACING WITH AN ADDRESSABLE CONVENTIONAL ZONE CONTROL MODULE. THE DETECTORS SHALL CONTAIN AN INTEGRAL ALARM LAMP

EXAMINED FOR COMPLIANCE WITH BUILDING CODE SECTION BC 907 & BC 908 AND FIRE CODE SECTIONS FC 907 & FC 90 ONLY. APPLICANT IS RESPONSIBLE FOR COMPLIANCE WITH **BUILDING CODE APPENDIX Q 107 AND ROUTING OF WIRES IN ACCORDANCE WITH NYC ELECTRICAL CODE**

- 12. ADDRESSABLE INTERFACE MODULES: INTELLIGENT, ADDRESSABLE TYPE, LISTED BY UL. THE UNIT SHALL INCORPORATE A CUSTOM MICROPROCESSOR BASED INTEGRATED CIRCUIT WHICH SHALL PROVIDE COMMUNICATION WITH MAIN FIRE CONTROL PANEL. THE INTERFACE MODULE SHALL SUPERVISE AND MONITOR NORMALLY OPEN OR NORMALLY CLOSED DRY CONTACTS. THE INTERFACE MODULE SHALL REPORT THE CONTACT'S STATUS TO THE CONTROL PANEL. THE INTELLIGENT INTERFACE MODULE SHALL BE DYNAMICALLY SUPERVISED AND UNIQUELY IDENTIFIABLE BY THE CONTROL PANEL. THE INTELLIGENT INTERFACE MODULE SHALL BE USED TO UNIQUELY IDENTIFY FIELD DEVICES SUCH AS WATER FLOW SWITCHES, TAMPER SWITCHES, OS&Y VALVES, ETC. THE INTELLIGENT INTERFACE MODULE SHALL BE USED WHEN REMOTE RELAY FUNCTIONS ARE REQUIRED FOR SYSTEM FUNCTIONAL REQUIREMENTS, SUCH AS BUT NOT LIMITED TO, FAN SHUTDOWNS. RELAY DRY CONTACTS SHALL BE RATED AT 2 AMP. 120 VAC RESISTIVE OR 30 VDC RESISTIVE AND SHALL BE FORM "C". PROVIDE SLAVE RELAYS WHERE REQUIRED TO CONTROL LARGER LOADS.
- 13. ALARM PRINTER: THERMAL TYPE STRIP PRINTER LOCATED WITHIN THE FACP WITH THE PRINTOUT VISIBLE THROUGH AN OPENING IN THE FACP DOOR. THE PRINTER SHALL RECORD ALL EVENTS INCLUDING OPERATOR COMMANDS AND SHALL BE CAPABLE OF PROVIDING A PRINTED LIST OF ALL SYSTEM CONDITIONS.
- 14. COMBINATION AUDIBLE/VISUAL NOTIFICATION APPLIANCE: UL 464 LISTED AS AUDIBLE FIRE ALARM NOTIFICATION APPLIANCE AND UL 1971 LISTED AS VISUAL FIRE ALARM NOTIFICATION APPLIANCE. LOW FREQUENCY HORN WITH SOUND OUTPUT OF 95 DBA AT 10 FEET. WHERE MULTIPLE VISUAL SIGNALS ARE VISIBLE FROM ANY LOCATION, CIRCUITRY SHALL BE INCORPORATED FOR SYNCHRONIZATION OF FLASH RATE. THE STROBE INTENSITY SHALL BE RATED PER UL 1971 AND ADA FOR 15/75 OR 110 CANDELA AS INDICATED. MOUNTING HEIGHT SHALL BE 80 INCHES TO THE CENTERLINE OF THE DEVICE. FOR SURFACE MOUNTED DEVICES, PROVIDE PYROTRONICS FBX BACKBOX.
- WEATHERPROOF COMBINATION AUDIBLE/VISUAL NOTIFICATION APPLIANCE: UL 464 LISTED AS AUDIBLE FIRE ALARM NOTIFICATION APPLIANCE AND UL 1971 LISTED AS VISUAL FIRE ALARM NOTIFICATION APPLIANCE. LOW FREQUENCY HORN WITH SOUND OUTPUT OF 95 DBA AT 10 FEET. WHERE MULTIPLE VISUAL SIGNALS ARE VISIBLE FROM ANY LOCATION, CIRCUITRY SHALL BE INCORPORATED FOR SYNCHRONIZATION OF FLASH RATE. THE STROBE INTENSITY SHALL BE RATED PER UL 1971 AND ADA FOR 15/75 CANDELA AS INDICATED. MOUNTING HEIGHT SHALL BE 80 INCHES TO THE CENTERLINE OF THE DEVICE.
- VISUAL NOTIFICATION APPLIANCE: UL 1971 LISTED AS A VISUAL FIRE ALARM NOTIFICATION APPLIANCE. WHERE MULTIPLE VISUAL SIGNALS ARE VISIBLE FROM ANY LOCATION, CIRCUITRY SHALL BE INCORPORATED FOR SYNCHRONIZATION OF FLASH RATE. THE STROBE INTENSITY SHALL BE RATED PER UL 1971 AND ADA FOR 15/75 OR 110 CANDELA AS INDICATED. FOR SURFACE MOUNTED DEVICES, PROVIDE PYROTRONICS FBX BACKBOX.
- AUDIBLE NOTIFICATION APPLIANCE: UL 464 LISTED AS AUDIBLE FIRE ALARM NOTIFICATION APPLIANCE. LOW FREQUENCY HORN WITH SOUND OUTPUT OF 96 DBA AT 10 FEET. FOR SURFACE MOUNTED DEVICES, PROVIDE PYROTRONICS FBX BACKBOX.
- VISUAL SIGNALS SHALL BE INSTALLED AS SHOWN ON THE DRAWINGS IN ACCORDANCE WITH THE REQUIREMENTS OF UL 1971, NFPA 72 AND THE ADA. where multiple visual signals are visible from any location, CIRCUITRY SHALL BE INCORPORATED FOR SYNCHRONIZATION OF FLASH RATE.
 - a. COMPLY WITH UL 1971 LISTED FOR EMERGENCY DEVICES FOR THE HEARING IMPAIRED IN ALL PUBLIC MODE INSTALLATIONS.
 - b. STROBES SHALL MEET UL 1971 AND PRODUCE A FLASH RATE OF ONE (1) FLASH PER SECOND MINIMUM OVER THE LISTED INPUT VOLTAGE (20VDC - 31VDC) RANGE.
- c. ALL VISUAL SIGNALS SHALL INCORPORATE A XENON FLASH TUBE ENCLOSED IN A RUGGED LEXAN LENS OR EQUIVALENT WITH SOLID STATE CIRCUITRY.
- d. THE STROBE INTENSITY SHALL BE RATED PER UL 1971 AND ADA FOR 15/75, 30/75, 60/75, 75 OR 110 CANDELA APPLICATIONS. DUAL LISTING STROBES OF 15/75 INTENSITY FOR UL 1971 NEAR-AXIS REQUIREMENTS SHALL BE USED WHERE ACCEPTABLE.
- e. STROBES SHALL BE AVAILABLE AS FLUSH MOUNTED IN CONJUNCTION WITH AUDIBLE SIGNALS AS REQUIRED.
- 19. THE SYSTEM SHALL PROVIDE STATUS INDICATORS AND CONTROL SWITCHES. STATUS INDICATION AND CONTROL SHALL BE ARRANGED TO REFLECT THE ACTUAL STATUS OF THE ASSOCIATED EQUIPMENT OR FUNCTION ACCURATELY FOR ALL OF THE FOLLOWING FUNCTIONS:
- a. STATUS INDICATORS FOR SPRINKLING SYSTEM WATER FLOW AND VALVE SUPERVISORY DEVICES.
- ANY ADDITIONAL STATUS OR CONTROL FUNCTIONS AS INDICATED ON
- 20. DEVICES SHALL BE LISTED BY UL FOR SENSITIVITY TESTING BY MEANS OF THE PORTABLE PROGRAMMER/TESTER OR BY READOUT FROM THE CONTROL PANEL. DEVICE ADDRESS AND SENSITIVITY ASSIGNMENTS SHALL BE PREDETERMINED ELECTRONICALLY, DEVICES REQUIRING DIPSWITCH SETTINGS, ROTARY SWITCH SETTINGS, STAPLES OR JUMPER SETTINGS ARE NOT ACCEPTABLE.
- 21. ACCESSORIES
- a. REMOTE DIAGNOSTICS MODULE: THE SYSTEM SHALL BE PROVIDED WITH REMOTE DIAGNOSTICS CAPABILITY TO PROVIDE REMOTE DIAL-UP AND INTEGRATION BY THE AUTHORIZED FIRE ALARM SERVICE FACILITY. THE RDM SHALL PROVIDE REMOTE PROGRAM REVIEW, SENSITIVITIES AND WELL AS TROUBLESHOOTING CAPABILITIES. PROVIDE A STANDARD PHONE LINE CONNECTION TO THIS UNIT.
- FIRE FINDER PAGER: THE SYSTEM SHALL BE PROVIDED WITH A PAGER SYSTEM (PYROTRONICS, CCU/M) TO PROVIDE REMOTE INDICATION OF ALARMS, TROUBLES AND VARIOUS SYSTEM DIAGNOSTICS FOR SELECTED INDIVIDUALS. PROVIDE A STANDARD PHONE LINE CONNECTION TO THIS UNIT.

FDNY FIRE ALARM PLAN ACCEPTED

Subject to audibility & visibility throughout the premises FINAL APPROVAL SUBJECT TO INSPECTION FDNY REFERENCE #: 2023-TMFALM-000954-PLAN

ACCEPTED WITH CONDITION(S): NO

It yes, specity:_

DATE: 10/06/2023 EXAMINER: Naznin Fancy

D. SYSTEM ALARM OPERATION

- 1. ACTIVATION OF ANY MANUAL FIRE PULL STATION, AREA SMOKE SENSOR WATER FLOW SWITCH, AREA HEAT DETECTOR, AS A MINIMUM, SHALL INITIATE THE FOLLOWING AUTOMATIC ALARM FUNCTIONS AND INDICATIONS:
 - ACTIVATE AN "ALARM" NOTIFICATION TO THE APPROPRIATE RECEIVING AGENCY.
 - ACTIVATE A VISUAL AND AUDIBLE "ALARM" CONDITION AT THE FACP INCLUDING A DETAILED DESCRIPTION OF THE ACTIVATION CAUSE ON THE LCD DISPLAY WITH DEVICE ADDRESS, DEVICE TYPE, DEVICE
 - ACTIVATE A VISUAL AND AUDIBLE "ALARM" CONDITION AT EACH
 - ACTIVATE EMERGENCY EVACUATION AUDIBLE AND VISUAL NOTIFICATION APPLIANCES. AUDIBLE DEVICES SHALL SOUND:
 - TEMPORAL ROUNDS OF THE APPROPRIATE ALARM CODE ON ALL HORN THROUGHOUT THE BUILDING. AFTER ROUNDS OF THE CODE ARE COMPLETED, CONTINUE SOUNDING A MASTER CODED SIGNAL UNTIL THE FACP IS MANUALLY SILENCED.
 - ACTIVATE HVAC SHUTDOWNS (NOT REQUIRED FOR MANUAL PULL STATION ALARMS).
 - ACTIVATE THE ASSOCIATED DEVICE ALARM LED ALARM INDICATOR.
- IN ADDITION TO THE ABOVE AUTOMATIC ALARM FUNCTIONS, ELEVATOR LOBBY, HOISTWAY, AND MACHINE ROOM SMOKE SENSORS AND SPRINKLER FLOW ALARMS SHALL ALSO CAUSE THE RECALL OF THE RESPECTIVE BANK OF ELEVATORS TO THE EXIT FLOOR, AND THE LOCKOUT OF CONTROLS. IN THE EVENT OF RECALL INITIATION BY DETECTOR IN THE FIRST FLOOR LOBBY, THE RECALL SHALL BE TO THE ALTERNATE FLOOR. A SEPARATE AND DISTINCT VISIBLE ANNUNCIATION SHALL BE PROVIDED AT THE FACP AND REMOTE ANNUNCIATORS TO ALERT FIREFIGHTERS AND OTHER EMERGENCY
- HOISTWAY AND MACHINE ROOM HEAT DETECTORS SHALL ALSO INITIATE SHUNT TRIP OF THE CIRCUIT BREAKER SERVING THE ELEVATOR. THE HEAT DETECTOR SHALL HAVE A FIXED TEMPERATURE SETTING LOWER THAN THE SPRINKLER HEAD. WHERE THE HEAT DETECTOR HAS ACTIVATED PRIOR TO A PROGRAMMED ELEVATOR RECALL SEQUENCE BEING INITIATED BY THE FACP, RECALL AND LOCK-OUT THE ELEVATORS OR PROVIDE SUITABLE MEANS OF ENSURING ELEVATORS DO NOT CONTAIN PASSENGERS PRIOR TO SHUNT

E. SYSTEM SUPERVISORY FUNCTIONS

ACTIVATION OF ANY SUPERVISED CIRCUIT INCLUDING SPRINKLER VALVE, FIRE PUMP, PRE-ACTION SPRINKLER PANELS SUPERVISORY CONTACTS SHALL, AS A

- RECORD WITHIN SYSTEM HISTORY, THE OCCURRENCE OF THE EVENT,
- RECORD ALL EVENTS AT THE FACP ALARM PRINTER.

- - LOCATION, TIME AND DATE.
 - FARA INDICATING DEVICE LOCATION, DEVICE TYPE, TIME AND DATE.
- RECORD ALL EVENTS AT THE INTEGRAL SYSTEM ALARM PRINTER AND TO THE SYSTEM HISTORICAL LOG.
- PERSONNEL THAT THE ELEVATORS MAY NO LONGER SAFE TO USE.
- 3. IN ADDITION TO THE ABOVE AUTOMATIC ALARM FUNCTIONS, ELEVATOR
- SUBSEQUENT ALARMS AUTOMATICALLY INITIATED ON INITIALLY ALARMED FLOORS SHALL NOT AUTOMATICALLY REACTIVATE THE AUDIBLE ALARM SIGNAL UNLESS THE INITIAL ALARM ACTUATING CIRCUIT HAS BEEN CLEARED and reset.
- MINIMUM, INITIATE THE FOLLOWING FUNCTIONS AND INDICATIONS:
 - ACTIVATE A "SUPERVISORY" ALARM NOTIFICATION TO THE APPROPRIATE RECEIVING AGENCY.
 - ACTIVATE A VISUAL AND AUDIBLE "SUPERVISORY" ALARM CONDITION AT THE FACP INCLUDING A DETAILED DESCRIPTION OF THE ACTIVATION CAUSE ON THE LCD DISPLAY INDICATING DEVICE ADDRESS, DEVICE TYPE, DEVICE LOCATION, TIME AND DATE. AUDIBLE SIGNALS SHALL BE SILENCEABLE FROM THE FACP BY AN ACKNOWLEDGE SWITCH.
- ACTIVATE A VISUAL AND AUDIBLE "SUPERVISORY" ALARM CONDITION AT EACH FARA INDICATING, DEVICE LOCATION, DEVICE TYPE, TIME AND DATE. AUDIBLE SIGNALS SHALL BE SILENCEABLE FROM THE FACP BY AN ACKNOWLEDGE SWITCH.
- THE TIME OF OCCURRENCE AND THE DEVICE INITIATING THE EVENT.

NEW YORK CITY BUILDING DEPARTMENT NOTE:

"THIS PLAN IS SUBMITTED FOR APPROVAL BY THE NEW YORK CITY

APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN

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BUILDING DEPARTMENT ONLY FOR WORK INDICATED ON THE

Client/Project

669 CASTLETON AVE, STATEN ISLAND, NY

FIRE ALARM SPECIFICATIONS SHEET

Project No. 225300004 Drawing No.

FA-401.00

Sheet

Revision

ORIGINAL SHEET - ARCH D

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100 Motor Parkway, Suite 420

Tel. 631.424.8600

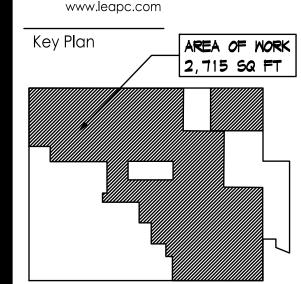
www.stantec.com

2929 Expressway Drive North Hauppauge, NY 11749 Phone: (631) 738-1200 Fax: (631) 285-6464 www.BohlerEngineering.com



Mechanical & Electrical Engineerir 200 Old Country Road, Suite 670

Mineola, NY 11501 Phone: (516) 484-1020 Fax: (516) 484-0926



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File Name: 7024.04-FA-401.dwg

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RICHMOND UNIVERSITY MEDICAL CENTER TRANSFORMATIONAL GRANT

SECOND FLOOR PROPOSED RENOVATION

1 OF 2

Scale NONE