

FIRE ALARM SYMBOL LISTS, NOTES & ABBREVIATIONS

FIRE ALARM SYSTEM NOTES AND SPECIFICATION

1) SEQUENCE OF OPERATIONS

1. MANUAL PULL STATION WILL DO THE FOLLOWING:
 - a) ACTIVATE THE SPEAKERS AND STROBES ON THE FIRE FLOOR AND FLOORS ABOVE AND BELOW.
 - b) ACTIVATE THE INQUIRY TONE THROUGHOUT THE BUILDING.
 - c) ACTIVATE LOCAL PIEZO AT FIRE COMMAND STATION AND REMOTE ANNUNCIATOR AND SHOW ALPHANUMERIC TEXT MESSAGE ON LCD DISPLAYS.
 - d) TRANSMIT ALARM SIGNAL TO CENTRAL OFFICE VIA CENTRAL OFFICE TRANSMITTER.
 - e) ACTIVATE FIRE SIGN AT THE FIRE COMMAND STATION.
 - f) DEACTIVATE MAGNETIC DOOR HOLDERS, RELEASING DOOR FROM OPEN POSITION ALLOWING DOOR TO CLOSE.
2. OPERATION OF AN AREA SMOKE DETECTOR, HEAT DETECTOR OR DUCT SMOKE DETECTOR WILL DO THE FOLLOWING:
 - a) ACTIVATE THE SPEAKERS AND STROBES ON THE FIRE FLOOR, FLOOR BELOW AND FLOOR ABOVE.
 - b) ACTIVATE THE INQUIRY TONE THROUGHOUT THE BUILDING.
 - c) ACTIVATE LOCAL PIEZO AT FIRE COMMAND STATION AND REMOTE ANNUNCIATOR AND SHOW ALPHANUMERIC TEXT MESSAGE ON LCD DISPLAYS.
 - d) TRANSMIT ALARM SIGNAL TO CENTRAL OFFICE VIA CENTRAL OFFICE TRANSMITTER.
 - e) ACTIVATE FIRE SIGN AT THE FIRE COMMAND STATION.
 - f) STOP THE FANS SERVING THE FLOOR IN ALARM.
 - g) STOP ALL OTHER REQUIRED FANS.
 - h) OPERATE DOOR RELEASE ON FLOOR OF ALARM.
 - i) DEACTIVATE MAGNETIC DOOR HOLDERS, RELEASING DOOR FROM OPEN POSITION ALLOWING DOOR TO CLOSE.
 - j) DEACTIVATE MAGNETIC DOOR HOLDERS, RELEASING DOOR FROM OPEN POSITION ALLOWING DOOR TO CLOSE.
 - k) START STAIR PRESSURIZATION FANS.
3. OPERATION OF A WATERFLOW SWITCH, ELEVATOR LOBBY OR ELEVATOR MACHINE ROOM SMOKE DETECTOR WILL DO THE FOLLOWING:
 - a) ACTIVATE THE SPEAKERS AND STROBES ON THE FIRE FLOOR, FLOOR BELOW AND FLOORS ABOVE.
 - b) ACTIVATE THE INQUIRY TONE THROUGHOUT THE BUILDING.
 - c) ACTIVATE LOCAL PIEZO AT FIRE COMMAND STATION AND REMOTE ANNUNCIATOR AND SHOW ALPHANUMERIC TEXT MESSAGE ON LCD DISPLAYS.
 - d) TRANSMIT ALARM SIGNAL TO CENTRAL OFFICE VIA CENTRAL OFFICE TRANSMITTER.
 - e) ACTIVATE FIRE SIGN AT THE FIRE COMMAND STATION.
 - f) STOP THE FANS SERVING THE FLOOR IN ALARM.
 - g) STOP ALL OTHER REQUIRED FANS.
 - h) OPERATE DOOR RELEASE ON FLOOR OF ALARM.
 - i) RETURN ALL AUTOMATIC ELEVATORS NON-STOP TO THE FIRST FLOOR.
 - j) DEACTIVATE MAGNETIC DOOR HOLDERS, RELEASING DOOR FROM OPEN POSITION ALLOWING DOOR TO CLOSE.
 - k) START STAIR PRESSURIZATION FANS.
4. OPERATION OF A SPRINKLER SYSTEM TAMPER SWITCH OR OTHER SUPERVISORY POINT WILL CAUSE THE FOLLOWING:
 - a) ACTIVATE LOCAL PIEZO AT FIRE COMMAND STATION AND REMOTE ANNUNCIATOR AND SHOW ALPHANUMERIC TEXT MESSAGE ON LCD DISPLAYS.
 - b) TRANSMIT TROUBLE SIGNAL TO CENTRAL OFFICE VIA CENTRAL OFFICE TRANSMITTER.
 - c) DEACTIVATE MAGNETIC DOOR HOLDERS, RELEASING DOOR FROM OPEN POSITION ALLOWING DOOR TO CLOSE.
5. OPERATION OF A GENERAL TROUBLE i.e.: OPEN ON FIELD WIRING INTERNAL FAULTS:
 - a) ACTIVATE LOCAL PIEZO AT FIRE COMMAND STATION AND REMOTE ANNUNCIATOR AND SHOW ALPHANUMERIC TEXT MESSAGE ON LCD DISPLAYS.
 - b) TRANSMIT TROUBLE SIGNAL TO CENTRAL OFFICE VIA CENTRAL OFFICE TRANSMITTER.
 - c) DEACTIVATE MAGNETIC DOOR HOLDERS, RELEASING DOOR FROM OPEN POSITION ALLOWING DOOR TO CLOSE.
6. OPERATION OF A FIRE PUMP MONITORING DEVICE SHALL:
 - a) PHASE REVERSAL: DISPLAY A TROUBLE CONDITION WITH A "FIRE PUMP PHASE REVERSAL" MESSAGE ON THE FIRE ALARM CONTROL PANEL LCD.
 - b) PUMP RUNNING: DISPLAY A NON-ALARM CONDITION WITH A "FIRE PUMP RUNNING" MESSAGE ON THE FIRE ALARM CONTROL PANEL LCD.
 - c) DEACTIVATE MAGNETIC DOOR HOLDERS, RELEASING DOOR FROM OPEN POSITION ALLOWING DOOR TO CLOSE.
7. LOSS OF NORMAL POWER, OPEN CIRCUIT OR CIRCUIT FAULTS IN ELECTRICALLY SUPERVISED CIRCUITS SHALL:
 - a) SOUND AUDIBLE SIGNAL AT THE FIRE ALARM PANEL.
 - b) TRANSMIT A TROUBLE INDICATION TO THE CENTRAL STATION AGENCY.
 - c) ACTIVATES ZONE INDICATION LIGHT ON THE FIRE ALARM PANEL.
 - d) DEACTIVATE MAGNETIC DOOR HOLDERS, RELEASING DOOR FROM OPEN POSITION ALLOWING DOOR TO CLOSE.

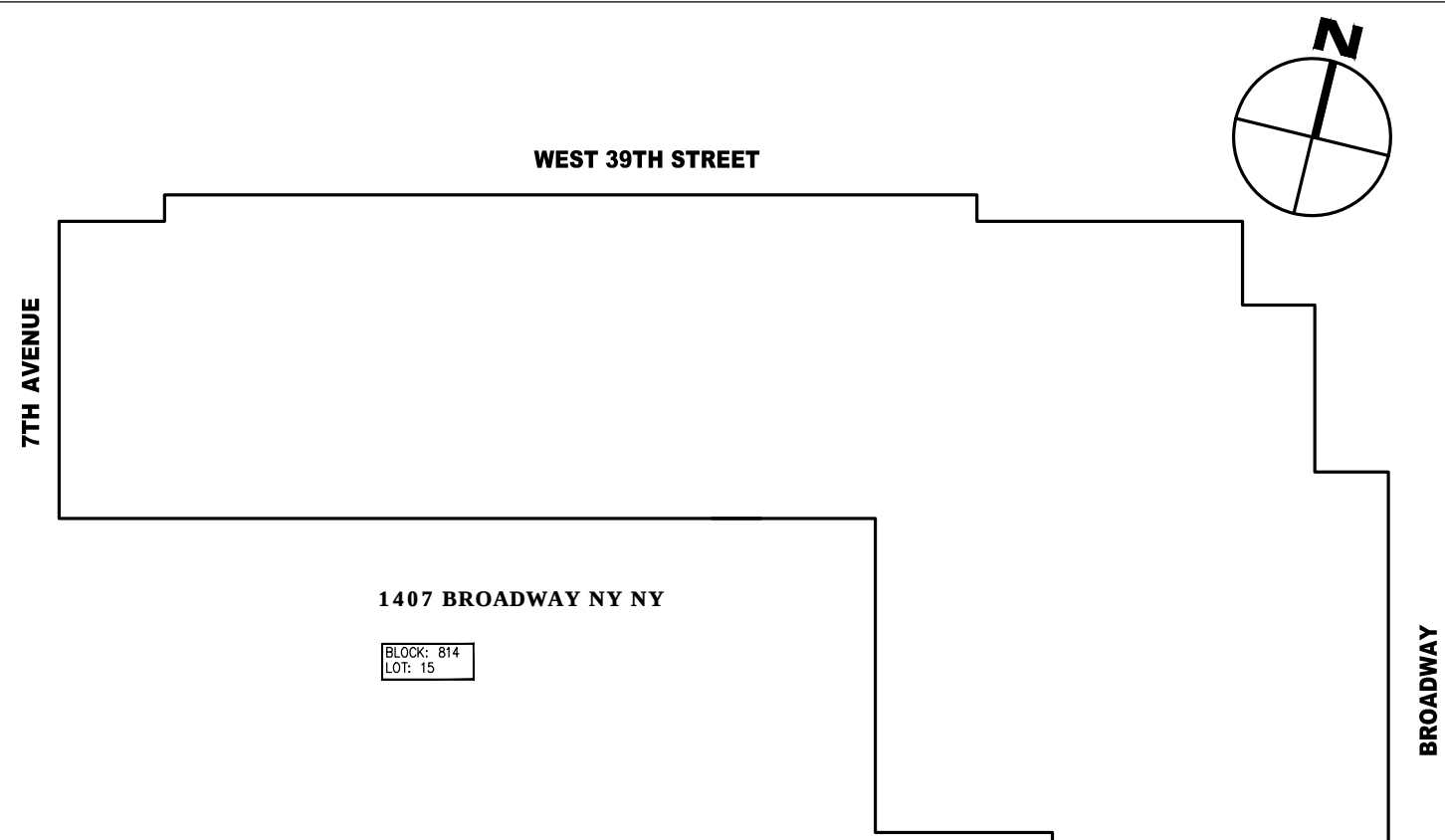
GENERAL FIRE ALARM NOTES

- IV. GENERAL
- A) ELECTRIC SYSTEM SHALL COMPLY WITH LOCAL NFPA, NYCFD MARIOTT AND CITY FIRE PREVENTION ORDINANCE REQUIREMENTS.
- B) WHEREVER POSSIBLE AND WHERE APPROVED FOR THE APPLICATION WRING SHALL BE OF THE "TEFLON" COATED APPROVED FOR F.A. & SIGNAL WIRING WHERE NOT EXPOSED TO DAMAGED OR WHERE RUN ABOVE CEILING, OTHERWISE IT SHALL BE RUN IN CONDUIT.
- C) IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR ALL INSPECTIONS AND DO ALL NECESSARY FILING AND OBTAIN ALL PERMITS INCLUDING THE PAYMENT OF ALL FEES TO OBTAIN A FIRE DEPARTMENT APPROVAL.
- D) ENTIRE SYSTEM SHALL BEAR THE U.L. LABEL AND SHALL BE APPROVED FOR USE IN THE AREA.
- E) SYSTEM AND EQUIPMENT SHALL BE AS MANUFACTURED BY SIMPLEX SYSTEMS OR EQUAL.
- F) SYSTEM WIRING SIZE, TYPE AND QUANTITY SHALL BE IN ACCORDANCE WITH SYSTEM MFGOR RECOMMENDATIONS.
- G) VENDOR SHALL SUBMIT EQUIPMENTS CUTS TO O.K. FOR APPROVAL.

GENERAL FIRE ALARM SYSTEM REQUIREMENTS

THE FIRE ALARM SYSTEM PANEL SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:

1. FIRE ALARM SYSTEM: FIRE ALARM SYSTEM CONTROL AND ANNUNCIATION PANELS.
2. COMMUNICATIONS SERVICE PANELS AND CONTROLS: FIRE DEPARTMENT 2-WAY TELEPHONE COMMUNICATIONS SERVICE PANELS AND CONTROLS.
3. VOICE FIRE ALARM SYSTEM: PANELS AND CONTROLS.
4. SMOKE CONTROL: FIRE FIGHTER GRAPHICAL SMOKE CONTROL PANEL SMOKE EVACUATION AND STAIRWELL PRESSURIZATION CONTROL PANELS.
5. ELEVATOR ANNUNCIATORS: ELEVATOR FLOOR LOCATION AND OPERATION ANNUNCIATORS.
6. EMERGENCY GENERATOR: REMOTE GENERATOR ANNUNCIATOR PANEL FOR EMERGENCY GENERATOR STATUS.
7. FIRE PUMP INDICATORS: FIRE PUMP STATUS INDICATORS.
8. FIRE DEPARTMENT PHONE: TELEPHONE FOR FIRE DEPARTMENT USE WITH CONTROLLED ACCESS TO PUBLIC TELEPHONE SYSTEM.
9. REMOTE FA ANNUNCIATOR AT A 24/7 EMPLOYEE OCCUPIED LOCATION.
10. PROVIDE POINT ADDRESSABLE, MULTIPLEX TYPE TO ALLOW FOR THE INDIVIDUAL ZONING REQUIRED FOR ACTIVATION OF THE SMOKE CONTROL SYSTEM AND TO ALLOW FOR REPROGRAMMING AS REQUIRED, WITH PRINTER IN THE CENTRAL CONTROL STATION.



FIRE ALARM DRAWING LIST

FA-101.00	FIRE ALARM SYMBOLS AND NOTES
FA-300.00	14TH FLOOR FIRE ALARM PLAN
FA-501.00	FIRE ALARM RISER DIAGRAM

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FIRE ALARM SYMBOLS

	WALL MOUNTED COMBINATION SPEAKER/STROBE UNIT
	STROBE LIGHT UNIT
	FIRE SMOKE DAMPER
	DUCT SMOKE DETECTOR
	AREA SMOKE DETECTOR
	SPEAKER
	TAMPER SWITCH
	WATER FLOW
	RELAY
	FIRE WARDEN STATION
	CO DETECTOR
	HEAT DETECTOR
	MAGNETIC DOOR HOLDER
	MANUAL PULL STATION
	MONITORING POINT
	CENTRAL STATION TRANSMITTER
FACP	FIRE ALARM COMMAND PANEL

Required Special Inspections

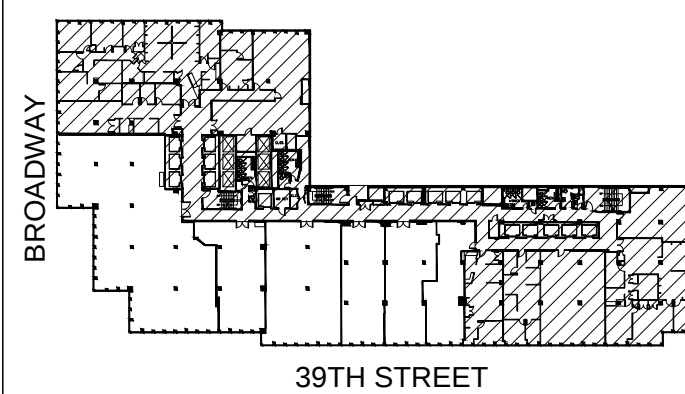
Y	N	Inspection Item	Code Section	Progress Inspection	Final Inspection
☒	☐	Fire Alarm Test	BC 907, BC 1704.13	N	Y
☐	☒	Emergency Power Systems (Generators)	BC 1704.13, BC 2702		
☐	☒	Smoke Control Systems	BC 1704.14		
☐	☒	Mechanical Systems	BC 1704.15		
☐	☒	Fuel-Oil Storage and Fuel-Oil Piping Systems	BC 1704.16		
☐	☒	High-Pressure Steam Piping (Welding)	BC 1704.17		
☐	☒	Fuel-Gas Piping (Welding)	BC 1704.18		
☐	☒	Mechanical Demolition	BC 1704.19, BC 3306.6		
☐	☐	Site Storm Drainage Disposal and Detention System Installation	BC 1704.20		
☐	☒	Sprinkler Systems	BC 1704.21		
☐	☒	Standpipe Systems	BC 1704.22		
☐	☒	Heating Systems	BC 1704.23		
☐	☒	Chimneys	BC 1704.24		
☐	☒	Final* 26-116.242, BC 109.5, Directive 14 of 1975, and 1 RCNY §101-10			

NUMBER	DESCRIPTION	DATE
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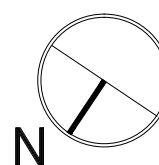
5	REVISED PER LIGHTING PLAN	08.08.14
4	ISSUED FOR FILING	07.03.14
3	ISSUED FOR BUILDING REVIEW	05.02.14
2	ISSUED FOR FILING AND BUILDING REVIEW	04.23.14
1	ISSUED FOR REVIEW	04.08.14

KEY PLAN



BLOCK 814, LOT 15

NORTH



ARCHITECT OF RECORD

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CLIENT

DRAWING TITLE

FIRE ALARM NOTES & SYMBOLS

DRAWN BY:
MKB/RR

CHECKED BY
MKB

SCALE:
AS NOTED

DATE: JANUARY 2014

SEAL & SIGNATURE

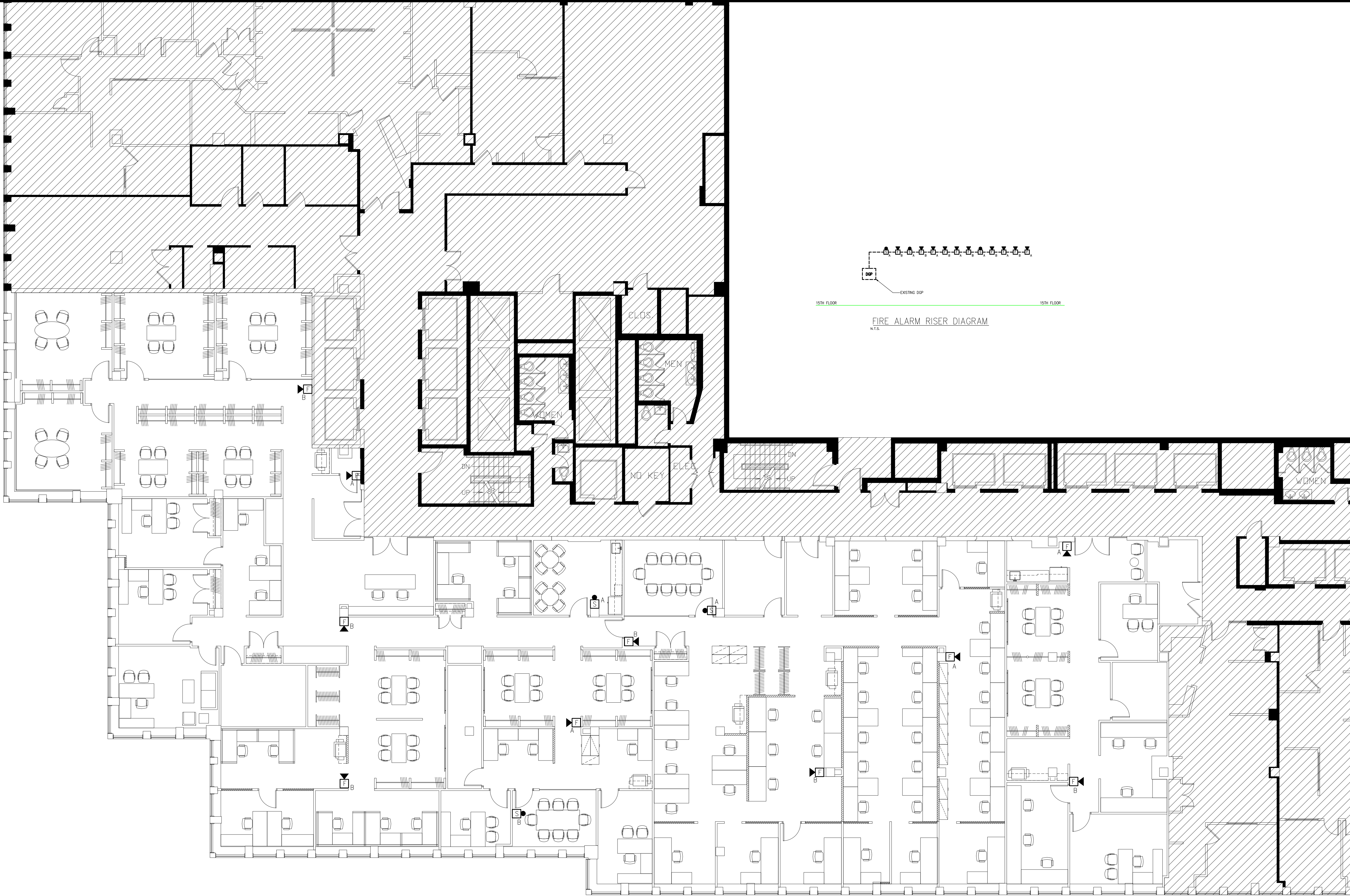
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FA-101.00

PROJECT LOCATION:
1407 BROADWAY

PAGE NO.

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NUMBER	DESCRIPTION	DATE
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3	ISSUED FOR BUILDING REVIEW	05.02.14
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KEY PLAN		
BLOCK 814, LOT 15		
NORTH		
DESIGNER		
CLIENT		
DRAWING TITLE		
FIRE ALARM PLAN		
DRAWN BY: MKB/RR		CHECKED BY: MKB
SCALE:- AS NOTED		DATE: JANUARY 2014
SEAL & SIGNATURE:		DRAWING NO: FA-300.00
PROJECT LOCATION: 1407 BROADWAY		PAGE NO. 2 OF 3