

INVITATION TO BID

The City of Rochester, New Hampshire is accepting sealed bids for **Fire Alarm System at the Rochester Community Center**. Bids must be submitted in a sealed envelope plainly marked:

Fire Alarm System, Rochester Community Center**Bid # 19-15**

City of Rochester
31 Wakefield Street
Rochester, NH 03867
Attn: Purchasing Agent

All bids must be received no later than **August 30, 2018** at **2:15 PM** Actual bid opening will be at Rochester City Hall, 31 Wakefield Street in Rochester NH, at **2:45 PM**. No late bids, faxed, e-mailed or telephone bids will be accepted. Bid proposals and specifications may be obtained by visiting www.rochesternh.net, or emailing purchasing@rochesternh.net, or by contacting the Purchasing Agent at City Hall, 31 Wakefield Street, Rochester, NH 03867, (603) 335-7602. All bid questions must be submitted in writing (email preferred) to the Purchasing Agent. Bidders are to monitor website for addendums, and postings of all bid questions and answers. All bid proposals must be made on the bid proposal forms supplied, and the bid proposal forms must be fully completed when submitted.

A mandatory site visit to review the requirements for the proposed New Fire Alarm System will be held on Monday August 20, 2018 @ 11:00 AM. Bidders will meet at Rochester Community Center 150 Wakefield St, Rochester, NH 03867. All prospective Bidders are required to attend.

**Fire Alarm System
Bid # 19-15**

SCOPE OF WORK

The City Of Rochester is requesting bids for installation of an addressable fire alarm system and voice messaging system to provide coverage throughout the mixed-use Rochester Community Center. The occupancies include Assembly, Education, Child Care/Preschool, Town/School Administration Offices, Education Space, Department of Public Works Garage/Maintenance Areas, and Storage.

- The fire alarm system shall be installed per NFPS 72 latest edition, City of Rochester requirements, IBC 2009 NFPA 1-2009 and NFPA 101-2015 as adopted.
- All existing fire alarm equipment to remain in service until new system is accepted. After acceptance, all existing equipment to be removed. Removal shall include cover plates for junction boxes and wall/ceiling openings or appropriate patch to match existing surrounding surface.
- New fire alarm system to be powered by normal 120vac circuit with emergency generator backup or battery backup for 24 hour standby period followed by 10 minutes of alarm condition.
- Install new devices as shown-transponders, terminal cabinets, smoke detectors, heat detectors, manual pull stations, addressable control modules, and notification appliances.
- Notification appliances shall be synchronized strobe and horn/speakers.
- Provide new strobes white in color, steady flash rate, 75 CDA at locations as shown. Testing shall be done to verify circuitry and adequate power for the new strobes.
- Provide new speakers to the system to provide audible notification contract shall be responsible for testing of the speakers to verify sound levels are 5dba above ambient noise level or 75dBa-whichever is louder (75 dBa is minimum required sound level for tone and intelligibly as described by NFPA 72 for voice-voice followed by temporal three pattern)
- Provide booster panels where necessary to supplement power for the speakers and strobes (note booster panels not shown on layout).
- Connect to UL central station for supervision and notification to fire and specified owner/manager notification.
- Contractor is responsible for testing of devices to ensure a full and operational system in accordance with NFPA 72.
- Contractor is responsible to verify all existing conditions location and quantity of all devices.
- Contractor shall notify owner and engineer prior to conducting tests on the system.
- Contractor shall verify all dimensions in the field.
- Contractor shall verify all ceiling types and heights in the field
- Contractor shall coordinate with all equipment and building features to ensure no conflicts.
- Contractor is responsible for all permits and associated fees.

- Contractor shall contact project manager/engineer prior to moving any equipment locations from that shown on the plans. (Plans are pages 11-16)
- All exposed wiring shall be run in conduit or other approved NFPA70/72 wiring method.
- A minimum of two notification circuits shall be run on each floor of the building.
- Voice alarm shall be repeated three times, use a female voice at a minimum to be transmitted throughout the building. Voice alarm shall state ATTENTION PLEASE the signal tone you have just heard indicates a report of an emergency in this building. If your evacuation signal sounds after this message , walk to the nearest exit and leave the building. While the report is being verified, occupants in other areas of the building should await further instructions.
- Panel shall have live voice capability with microphone at he panel.
- Fire alarm contractor to make arrangements to have test completed in the building to confirm fire department communication is adequate. Should test show that communication is not adequate fire alarm contractor shall provide antenna system to enhance fire department communication. This system shall be compatible with Rochester Fire Department equipment and installation of the system shall be coordinated with the Rochester Fire Department.
- Panel/equipment shall have capability for expansion to include additional no-fire emergency notification equipment in the future.

Bid form to be submitted is on page 11.

INSTRUCTION TO BIDDERS

PREPARATION OF BID PROPOSAL

1. The Bidder shall submit her/his proposal upon the form(s) furnished by the City (attached). If requested in bid form the bidder shall specify a unit price, both in words and figures, for each pay item for which a quantity is given and shall also show the products of the respective unit prices and quantities written in figures in the column provided for that purpose and the total amount of the proposal obtained by adding the amount of several items. All figures shall be in ink or typed.
2. If a unit price or lump sum bid already entered by the bidder on the proposal form is to be altered it should be crossed out with ink, the new unit price or lump sum bid entered above or below it, and initialed by the bidder, also with ink. In case of discrepancy between the prices written in words and those written in figures, the prices written in words shall govern.
3. The bidder's proposal must be signed with ink by the individual, by one or more members of the partnership, by one or more members or officers of each firm representing a joint venture, by one or more officers of a corporation, or by an agent of the contractor legally qualified and acceptable to the owner. If the proposal is made by an individual, his name and post office address must be shown, by a partnership the name and post office address of each partnership member must be shown; as a joint venture, the name and post office address of each must be shown; by a corporation, the name of the corporation and its business address must be shown, together with the name of the state in which it is incorporated, and the names, titles, and business addresses of the President, Secretary, and Treasurer.
4. All questions shall be submitted in writing to and received by the Purchasing Agent at the above address, a minimum of 7 days prior to the scheduled bid opening. The Purchasing Agent, will then forward both the question and the city's response to the question to all known prospective bidders.

IRREGULAR PROPOSALS

Bid proposals will be considered irregular and may be rejected for any of the following reasons:

1. If the proposal is on a form other than that furnished by the Owner or if the form is altered or any part thereof is detached.
2. If there are unauthorized additions, conditional or alternate bids, or irregularities of any kind which may tend to make the proposal incomplete, indefinite or ambiguous as to its meaning.
3. If the bidder adds any provisions reserving the right to accept or reject an award, or to enter into a contract pursuant to an award.
4. If the proposal does not contain a unit price for each pay item listed, except in the case of authorized alternate pay items.

DELIVERY OF BID PROPOSALS

When sent by mail, the sealed proposal shall be addressed to the City of Rochester, Purchasing Agent, 31 Wakefield Street, Rochester, NH 03867. All proposals shall be filed prior to the time and at the place specified in the invitation for bids. Proposals received after the time for opening

of the bids will be returned to the bidder, unopened. Emailed or faxed bid proposals are not acceptable.

WITHDRAWAL OF BID PROPOSALS

A bidder will be permitted to withdraw his proposal unopened after it has been deposited if such request is received in writing prior to the time specified for opening the proposals.

PUBLIC OPENING OF BID PROPOSALS

Proposals will be opened and read publicly at the time and place indicated in the invitation for bids. Bidders, their authorized agents, and other interested parties are invited to be present.

DISQUALIFICATION OF BIDDERS

Either of the following reasons may be considered as being sufficient for the disqualification of a bidder and the rejection of her/his bid proposal(s):

1. Evidence of collusion among bidders.
2. Failure to supply complete information as requested by the bid specifications.

CONSIDERATION OF PROPOSALS

1. Bids will be made public at the time of opening and may be reviewed only after they have been properly recorded. In case of discrepancy between the prices written in words and those written figures, the prices written in words shall govern. In case of a discrepancy between the total shown in the proposal and that obtained by adding the products of the quantities of items and unit bid prices, the latter shall govern.
2. The right is reserved to reject any or all proposals, to waive technicalities or to advertise for new proposals, if in the judgment of the City, the best interest of the City of Rochester will be promoted thereby.
3. Bid results will be available on the website at www.rochesternh.net within 48 hours of the bid opening.

AWARD OF CONTRACT

The City holds the right, in its judgment, to award the contract to the bidder, which it feels is in the best interest of the City. If a contract is to be awarded, the Contractor/Vendor selection shall be based in part on possession of the necessary experience, organization, technical and professional qualifications, skills and facilities, reference checks, project understanding, approach, ability to comply with proposed or required time to completion or performance, licensing or certification, in good standing with Federal, State and Local agencies, possession of satisfactory record of performance, cost and to a responsible and qualified bidder whose proposal complies with all the requirements prescribed as soon as practical after the bid opening. No bid shall be withdrawn for a period of (60) sixty days subsequent to the opening of bids without the consent of the City of Rochester. The successful bidder will be notified, by the form mailed to the address on his proposal, that his bid has been accepted and that he has been awarded the contract.

CANCELLATION OF AWARD

The City reserves the right to cancel the award of any contract at any time before the execution of such contract by all parties without any liability or other claim against the City.

BID EVALUATION

In addition to the bid amount, additional factors will be considered as an integral part of the bid evaluation process, including, but not limited to:

1. The bidder's ability, capacity, and skill to perform within the specified time limits.
2. The bidder's experience, reputation, efficiency, judgment, and integrity.
3. The quality, availability and adaptability of the supplies and materials sold.
4. The bidder's past performance.
5. The sufficiency of bidder's financial resources to fulfill the contract.
6. The bidder's ability to provide future maintenance and/or services.
7. Any other applicable factors as the City determines necessary and appropriate (such as compatibility with existing equipment).

CONDITIONS AT SITE

Bidders shall be responsible for having ascertained pertinent local conditions, such as: location, accessibility and general character of the site. The character and extent of existing work within or adjacent to the site and any other work being performed thereon at the time of the submission of her/his bid.

LAWS, PERMITS AND REGULATIONS

1. The Contractor shall obtain and pay for all licenses and permits as may be required of him by law, and shall pay for all fees and charges for connection to outside services, and use of property other than the site of the work for storage of materials or other purposes.
2. The Contractor shall comply with all State and Local laws, ordinances, regulations and requirements applicable to work hereunder, including building code requirements. If the Contractor ascertains at any time that any requirement of this Contract is at variance with applicable laws, ordinances, regulations or building code requirements, she/he shall promptly notify the City of Rochester in writing.

CONTRACTOR'S AND SUBCONTRACTOR'S INSURANCE

1. The Contractor shall deliver with bid documents; certificates of all insurance required hereunder. The certificate shall state that the companies issuing insurance will endeavor to mail to the City of Rochester ten (10) days notice of cancellation, alteration or material change of any listed policies. The Contractor shall keep in force the insurance required herein for the period of the Contract. At the request of the City of Rochester, the Contractor shall promptly make available a copy of any and all listed insurance policies. The requested insurance must be written by a Company licensed to do business in New Hampshire at the time the policy is issued.

2. The City of Rochester, NH shall be listed as additional insured on all the Certificates of Insurance.
3. The Contractor shall require each Subcontractor employed on the Project to maintain the coverage listed below unless the Contractor's insurance covers activities of the Subcontractor on the Project.
4. No operations under this Contract shall commence until certificates of insurance attesting to the below listed requirements have been filed with and approved by the Department of Public Works, and the Contract approved by the City Manager.
 - a. Workmen's Compensation Insurance
Limit of Liability - \$100,000.00 per accident
 - b. Commercial General Liability
Limits of Liability
Bodily Injury: \$1,000,000.00 per occurrence, \$1,000,000.00 aggregate
Property Damage: \$500,000.00 per occurrence, \$200,000.00 aggregate
Combined Single Limit, Bodily Injury and Property Damage:
\$2,000,000.00 aggregate
 - c. Automobile Liability
Limits of Liability - \$500,000.00 per accident.
 - d. The Contractor shall indemnify, defend, and save harmless the City of Rochester and its agents and employees from and against any suit, action or claim of loss or expenses because of bodily injury. Including death at any time resulting there from, sustained by any person or persons or on account of damage to property, including loss of use thereof, whether caused by or contributed to by said City of Rochester, its agents, employees or others.

ACCIDENT PROTECTIONS

It is a condition of this Contract, and shall be made a condition of each subcontract entered into pursuant to the Contract. That a Contractor and any Subcontractors shall not require any laborer or mechanic employed in the performance of the Contract to work in surroundings or under working conditions which are unsanitary, hazardous, or dangerous to health or safety, as determined by construction safety and health standards of the Occupational Safety and Health Administration, United States Department of Labor, which standards include, by reference, the established Federal Safety and Health regulations for Construction. These standards and regulations comprise Part 1910 and Part 1926 respectively of Title 29 of the Code of Federal Regulations and are set forth in the Federal Register. In the event any revisions in the Code of Federal Regulations are published, such revisions will be deemed to supersede the appropriate Part 1910 and Part 1926, and be effective as of the date set forth in the revised regulation.

SUBCONTRACTS

1. Nothing contained in the Specifications or Drawings shall be construed as creating any

contractual relationship between any Subcontractor and the City of Rochester. The Division or Sections of the Specifications are not intended to control the Contractor in dividing the work among Subcontractors or to limit the work performed by any trade.

2. The Contractor shall be as fully responsible to the City of Rochester for the acts and omissions of Subcontractors and of persons employed by her/him, as she/he is responsible for the acts and omissions of persons directly employed by her/him.

PROTECTION OF WORK AND PROPERTY

The Contractor shall, at all times, safely guard the City's property from injury or loss in connection with this Contract. She/he shall, at all times, safely guard and protect her/his own work and that of adjacent property from damage. All passageways, guard fences, lights and other facilities required for protection by State or Municipal laws, regulations and local conditions must be provided and maintained.

USE OF PREMISES AND REMOVAL OF DEBRIS

The Contractor expressly undertakes at his own expense:

1. To take every precaution against injuries to persons or damage to property;
2. To comply with the regulations governing the operations of premises which are occupied and to perform his Contract in such a manner as not to interrupt or interfere with the operation of the Institution;
3. To perform any work necessary to be performed after working hours or on Sunday or legal holidays without additional expense to the City, but only when requested to do so by the City;
4. To store his apparatus, materials, supplies and equipment in such orderly fashion at the site of the work as will not unduly interfere with the progress of his work or the work of any other Contractors;
5. Daily to clean up and legally dispose of (away from the site), all refuse, rubbish, scrap materials and debris caused by his operation. Including milk cartons, paper cups and food wrappings left by his employees, to the end that at all times the site of the work shall present a neat, orderly and workmanlike appearance;
6. All work shall be executed in a workmanlike manner by experienced mechanics in accordance with the most modern mechanical practice and shall represent a neat appearance when completed.

MATERIALS AND WORKMANSHIP

1. Unless otherwise specified, all materials and equipment incorporated into the work under the Contract shall be new. All workmanship shall be first class and by persons qualified in their respective trades.
2. Where the use of optional materials or construction method is approved, the requirements for workmanship, fabrication and installation indicated for the prime material or construction method shall apply wherever applicable. Required and necessary modifications and

adjustments resulting from the substitution or use of an optional material or construction method shall be made at no additional cost to the City.

STANDARDS

1. Materials specified by reference to the number, symbol or title of a specific standard, such as a Commercial Standard, a Federal Specification, Department's Standard Specifications, a trade association standard or other similar standard. Shall comply with requirements in the latest revision thereof and any amendment or supplement thereto in effect on the date of advertisement, except as limited to type, class or grade or modified in such reference.
2. Reference in the Specifications to any article, device, product, material, fixture, form or type of construction by name, make or catalog number shall be interpreted as establishing a standard of quality and shall not be construed as limiting competition. In such cases the Contractor may, at his option, use any articles, device, product, material fixture, form or type of construction that, in the judgment of the City expressed in writing to all Bidders before opening of bids as an addendum, is an acceptable substitute to the specified.
3. Substitution During Bid Time: Whenever any particular brand or make of material or apparatus is called for in the Specifications, a Bidder's Proposal must be based upon such material or apparatus, or upon a brand or make which has been specifically approved as a substitution in an Addendum issued to all Bidders during the bidding time.
4. The intent is that the brand or make of material or apparatus that is called for herein establishes a standard of excellence that, in the opinion of the Consultant and Engineer, is necessary for this particular Project.
5. Substitution After Bid Opening: No substitutions will be considered after bids have been opened unless necessary due to strikes, lockouts, bankruptcy or discontinuance of manufacture, etceteras. In such cases, the Contractor shall apply to the City, in writing within ten (10) days of his realizing his inability to furnish the article specified, describing completely the substitution he desires to make.

EXTRAS

Except as otherwise herein provided, no charge for any extra work or material will be allowed unless the Director of Public Works has ordered the same, in writing.

GUARANTEE OF WORK

1. Except as otherwise specified, all work shall be guaranteed by the Contractor against defects resulting from the use of inferior materials, equipment or workmanship for one (1) year from the Date of Final Acceptance.
2. Make good any work or material, or the equipment and contents of said building or site disturbed in fulfilling any such guarantee.
3. In any case, wherein fulfilling the requirements of the Contract or of any guarantee, should the Contractor disturb any work guaranteed under another contract, the Contractor shall restore such disturbed work to a condition satisfactory to the Director of Public Works. And guarantee such restored work to the same extent as it was guaranteed under such other contracts.

4. If the Contractor, after notice, fails to proceed promptly to comply with the terms of the guarantee, the City of Rochester may have the defects corrected and the Contractor shall be liable for all expense incurred.
5. All special guarantees applicable to definite parts of the work that may be stipulated in the Specifications or other papers forming a part of the Contract shall be subject to the terms of this paragraph during the first year of the life of such special guarantee.

DEFAULT AND TERMINATION OF CONTRACT

If the Contractor:

1. Fails to begin work under Contract within the time specified in the notice to proceed; or
2. Fails to perform the work with sufficient workers and equipment, or with sufficient materials to assume prompt completion of said work; or
3. Performs the work unsuitably or neglects or refuses to remove materials or to perform anew such work as may be rejected as unacceptable and unsuitable; or
4. Discontinues the prosecution of the work; or
5. Fails to resume work, which has been discontinued, within the time frames included in specifications; or
6. Becomes insolvent or has declared bankruptcy, or commits any act of bankruptcy or insolvency; or
7. Makes an assignment for the benefit of creditors; or
8. For any other causes whatsoever, fails to carry on the work in an acceptable manner the City of Rochester will give notice, in writing, to the Contractor for such delay, neglect, and default.

If the Contractor does not proceed in accordance with the Notice, then the City of Rochester will have full power and authority without violating the Contract to take the prosecution of the work out of the hands of the Contractor. The City of Rochester may enter into an agreement for the completion of said Contract according to the terms and conditions thereof, or use such other methods as in the City's opinion will be required for the completion of said Contract in an acceptable manner.

All extra costs and charges incurred by the City of Rochester as a result of such delay, neglect or default, together with the cost of completing the work under the Contract will be deducted from any monies due or which may become due to said Contractor. If such expenses exceed the sum which would have been payable under the contract, then the Contractor shall be liable and shall pay to the City of Rochester the amount of such excess.

OBTAINING BID RESULTS

Bid results will be available on the website at www.rochesternh.net within 48 hours of the bid opening.

**Fire Alarm System
Bid # 19-15
BID FORM**

COMPANY NAME: _____

CONTACT PERSON: _____

ADDRESS: _____

TELEPHONE# _____ FAX# _____ E-MAIL _____

SIGNATURE: _____

New addressable fire alarm system and voice messaging system for the Rochester Community Center, complete system with all materials, including parts and labor, shall be provided for the Total Lump Sum below.

\$ _____
(cost in numbers)

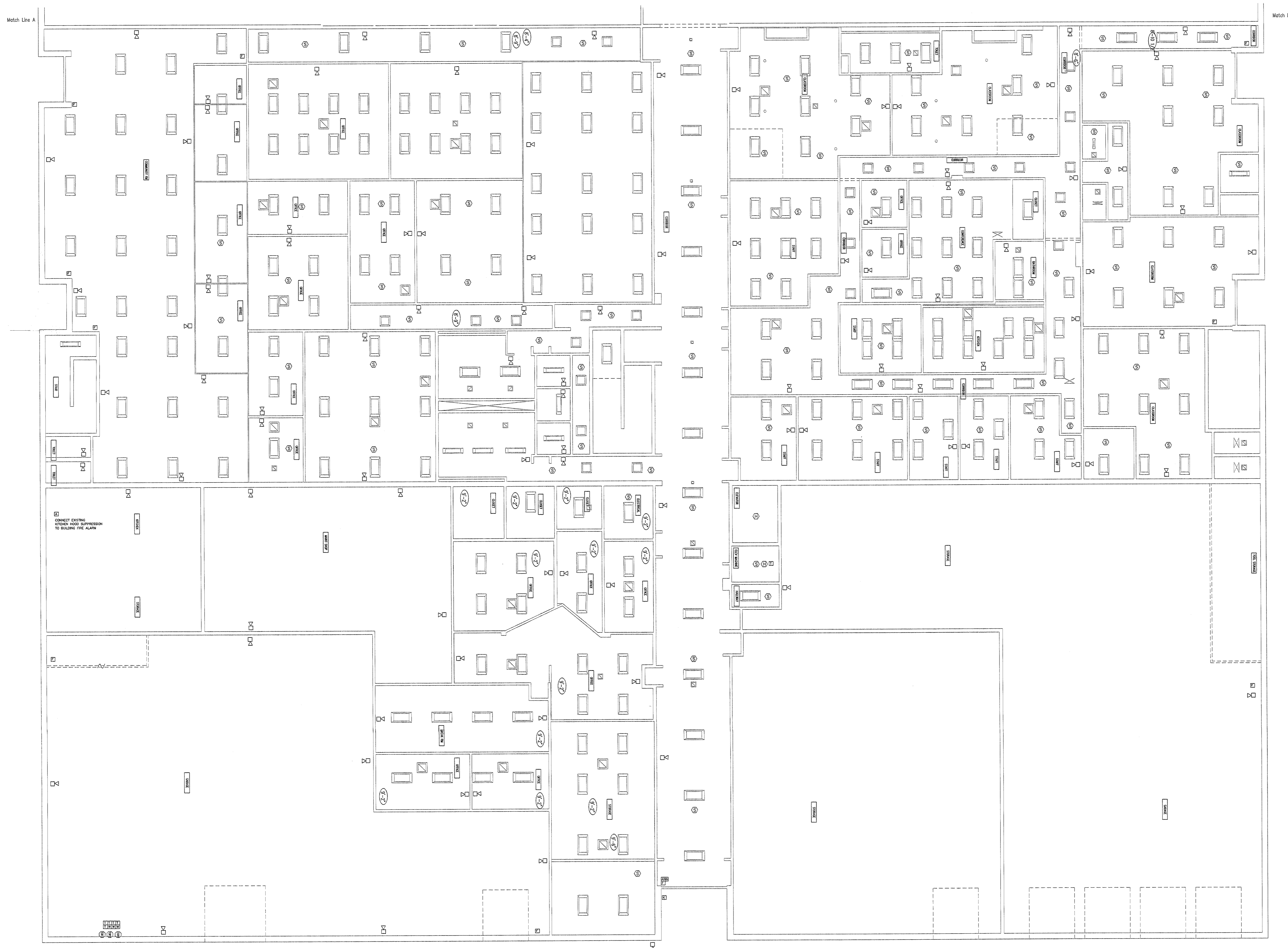
\$ _____
(cost in words)

Attended Mandatory walk through YES or NO
(circle one)

All work shall conform to City of Rochester Code requirements, as can be found at the weblink below:
<http://www.rochesternh.net/building-zoning-and-licensing-services/pages/codes-currently-enforced>

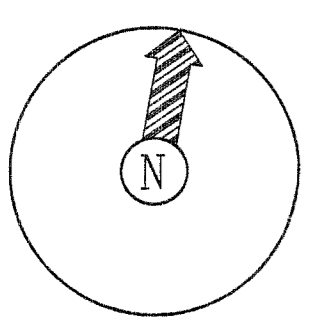
Please note references to New Hampshire State Building Code (2009 IBC w/ NH amendments), National Electric code 2014, and Life Safety Code NFPA 101, 2009 Edition.

Bid results will be posted after 48 hours on the City of Rochester’s web site:
www.rochesternh.net or will be available by request via e-mail at the following address:
purchasing@rochesternh.net



- LEGEND**
- ☐ STROBE TRISA - EXTERIOR WEATHER RESISTANT
 - ☐ SPEAKER BOX/BA
 - ☐ 4-1/2" MOUNTING SPEAKER BOX/BA/STROBE TRISA
 - ☐ WATER FLOW SWITCH
 - ☐ MANUAL PULL STATION
 - ☐ SPRINKLER VALVE TAMPER SWITCH
 - ☉ PHOTOELECTRIC SMOKE DETECTOR
 - ☉ PHOTOELECTRIC SMOKE DETECTOR - DUCT
 - ☐ ADDRESSABLE MODULE
 - ☐ REMOTE ANNUNCIATOR

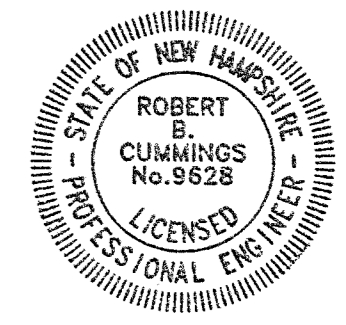
CONNECT EXISTING
KITCHEN HOOD SUPPRESSION
TO BELONGING FIRE ALARM



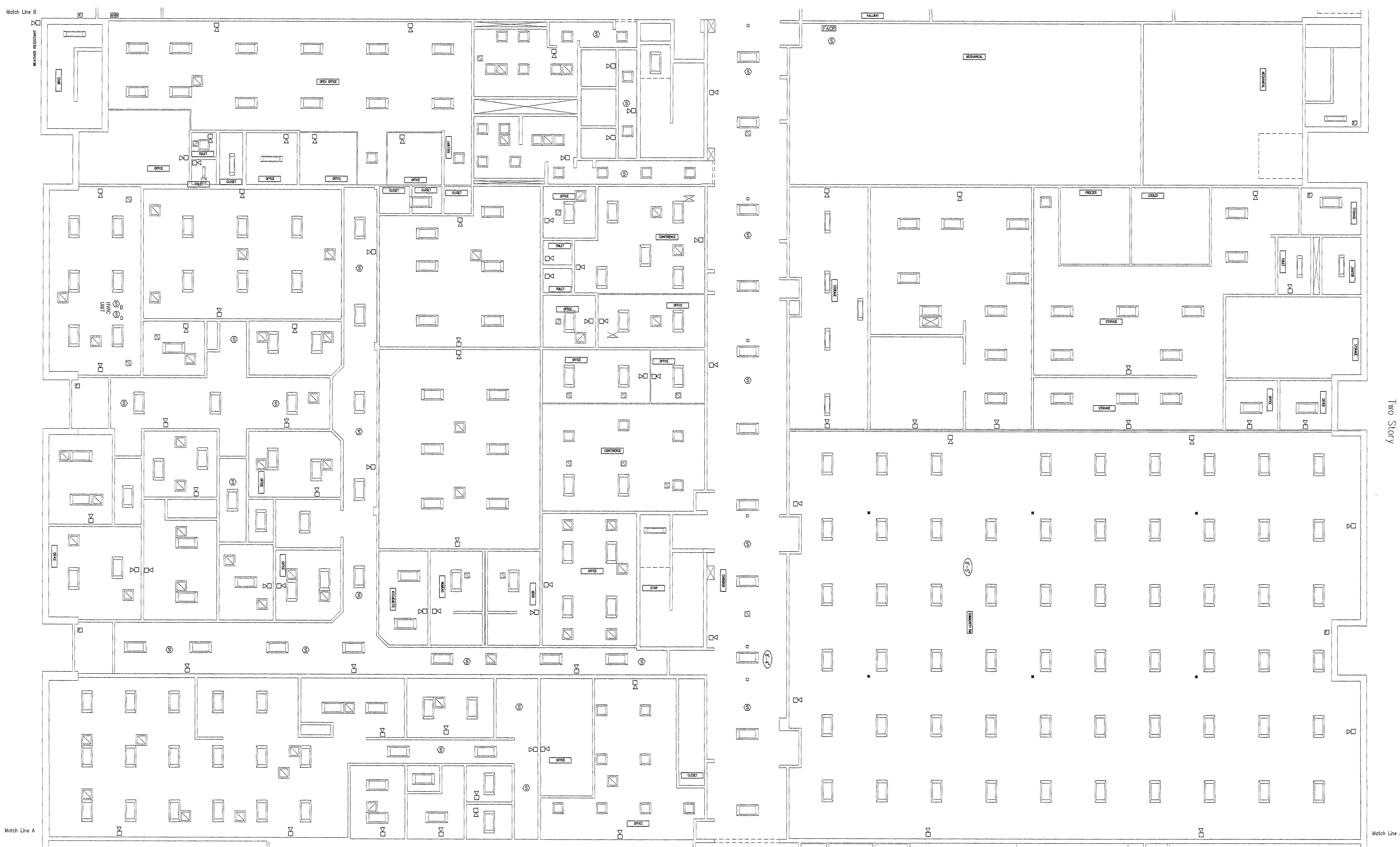
ROBERT CUMMINGS & ASSOCIATES, PLLC
 BOB CUMMINGS NH FPE No. 9628
 181 BOW BOG ROAD BOW, NH 03304
 (603) 496-3933 fax (603) 224-7467
 bobcfpe@comcast.net

Drawing Title FIRE ALARM LAYOUT PARTIAL 1ST FLR		
Contract No.	Revisions:	Date:
Drawn By RBC		
Scale 1/8" = 1'-0"		
Date 7-15-18		

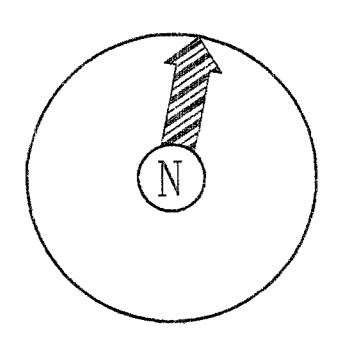
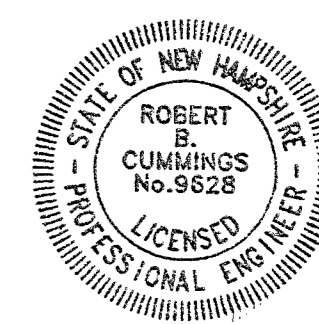
Job:
NEW FIRE ALARM SYSTEM
 ROCHESTER COMMUNITY CENTER
 150 WAKEFIELD STREET
 ROCHESTER, NH 03867



SHEET 1 OF 6



- LEGEND**
- ▷ STROBE TROOP - #4 DETECTOR WEATHER RESISTANT
 - SPEAKER MOUNTING
 - ⊕ CALLING MOUNTING SPEAKER BELL/STROBE TROOP
 - ⊖ WATER FLOW SWITCH
 - ⊖ MANUAL PULL STATION
 - ⊖ SPRINKLER VALVE TAMPER SWITCH
 - ⊖ PHOTOELECTRIC SMOKE DETECTOR
 - ⊖ PHOTOELECTRIC SMOKE DETECTOR - DUCT
 - ⊖ ADDRESSABLE MODULE

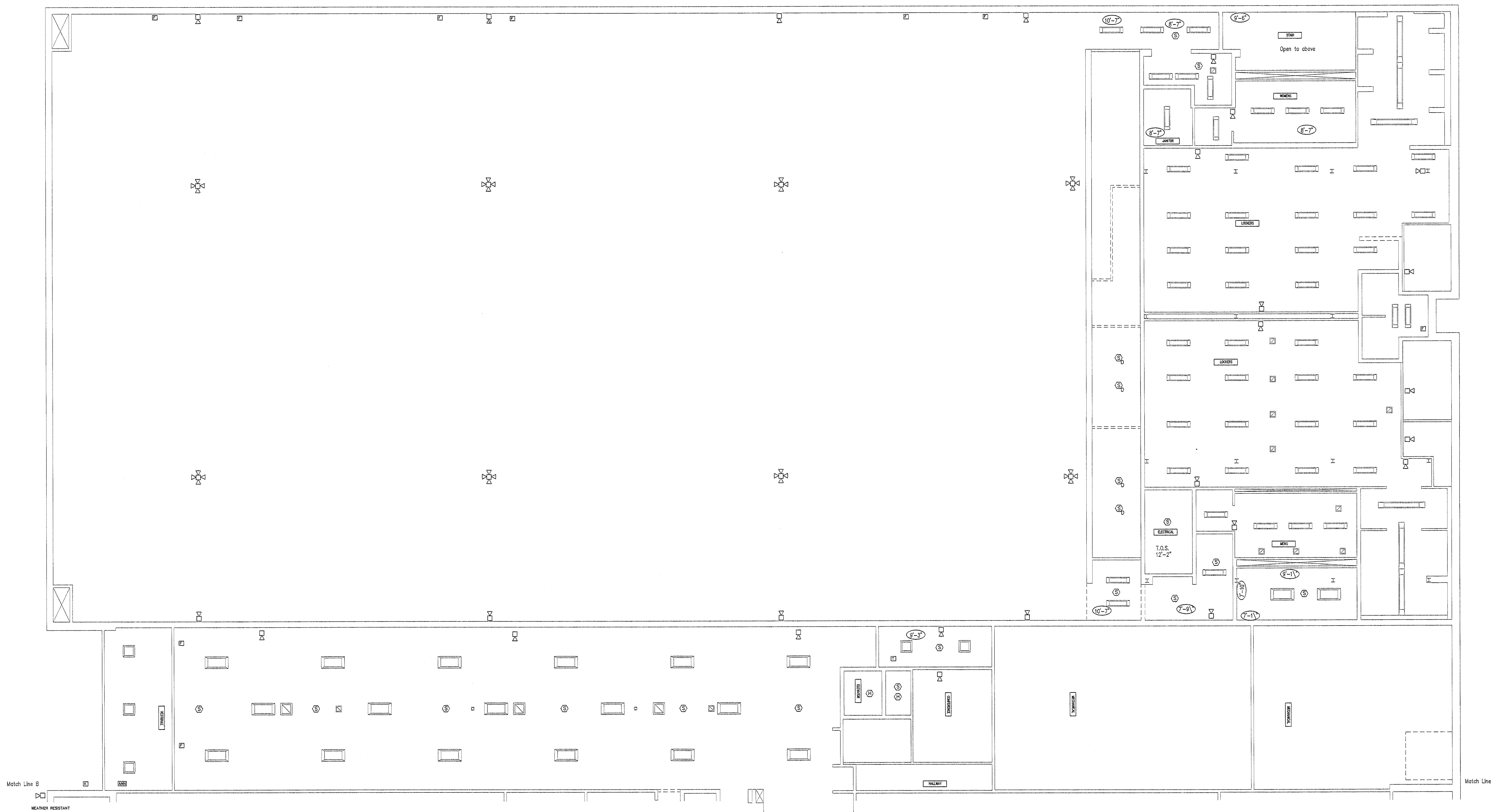


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Drawing Title	Revisions	Date
FIRE ALARM LAYOUT PARTIAL 1ST FLR		
Contract No.		
Drawn By RBC		
Scale 1/8" = 1'-0"		
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Job:
 NEW FIRE ALARM SYSTEM
 ROCHESTER COMMUNITY CENTER
 150 WAKEFIELD STREET
 ROCHESTER, NH 03867

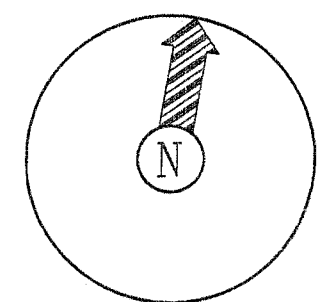
SHEET 2 OF 9



- LEGEND**
- STROBE HORN - PHOTOELECTRIC WEATHER RESISTANT
 - SPEAKER HORN
 - WEATHER RESISTANT SPEAKER HORN/STROBE HORN
 - WATER FLOW SWITCH
 - MANUAL PULL STATION
 - SPRINKLER VALVE TAMPER SWITCH
 - PHOTOELECTRIC SMOKE DETECTOR
 - PHOTOELECTRIC SMOKE DETECTOR - DUCT
 - ADDRESSABLE MODULE

Match Line B
WEATHER RESISTANT

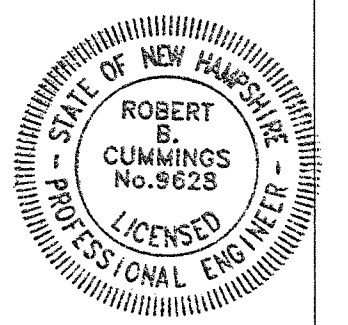
Match Line B



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Drawing Title: FIRE ALARM LAYOUT PARTIAL 1ST FLR		
Contract No.	Revisions:	Date:
Drawn By: RBC		
Scale: 1/8" = 1'-0"		
Date: 7-15-18		

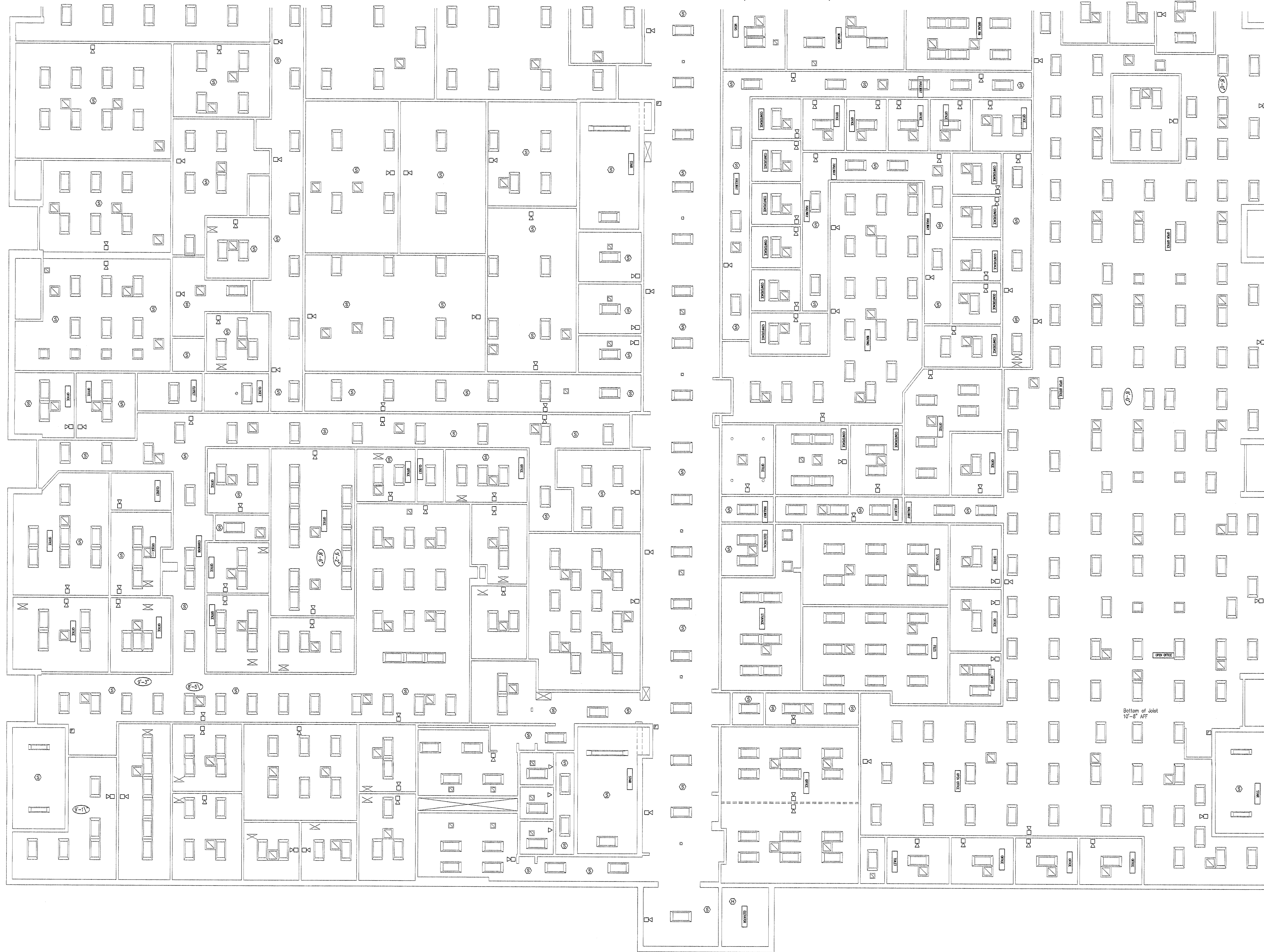
Job: NEW FIRE ALARM SYSTEM
 ROCHESTER COMMUNITY CENTER
 150 WAKEFIELD STREET
 ROCHESTER, NH 03867



SHEET 3 OF 6

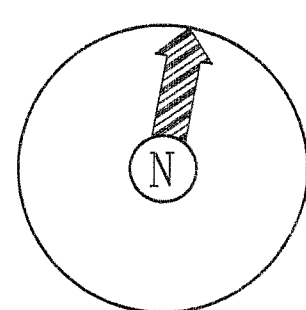
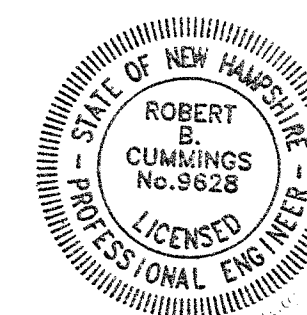
Match Line B

Match Line B



LEGEND

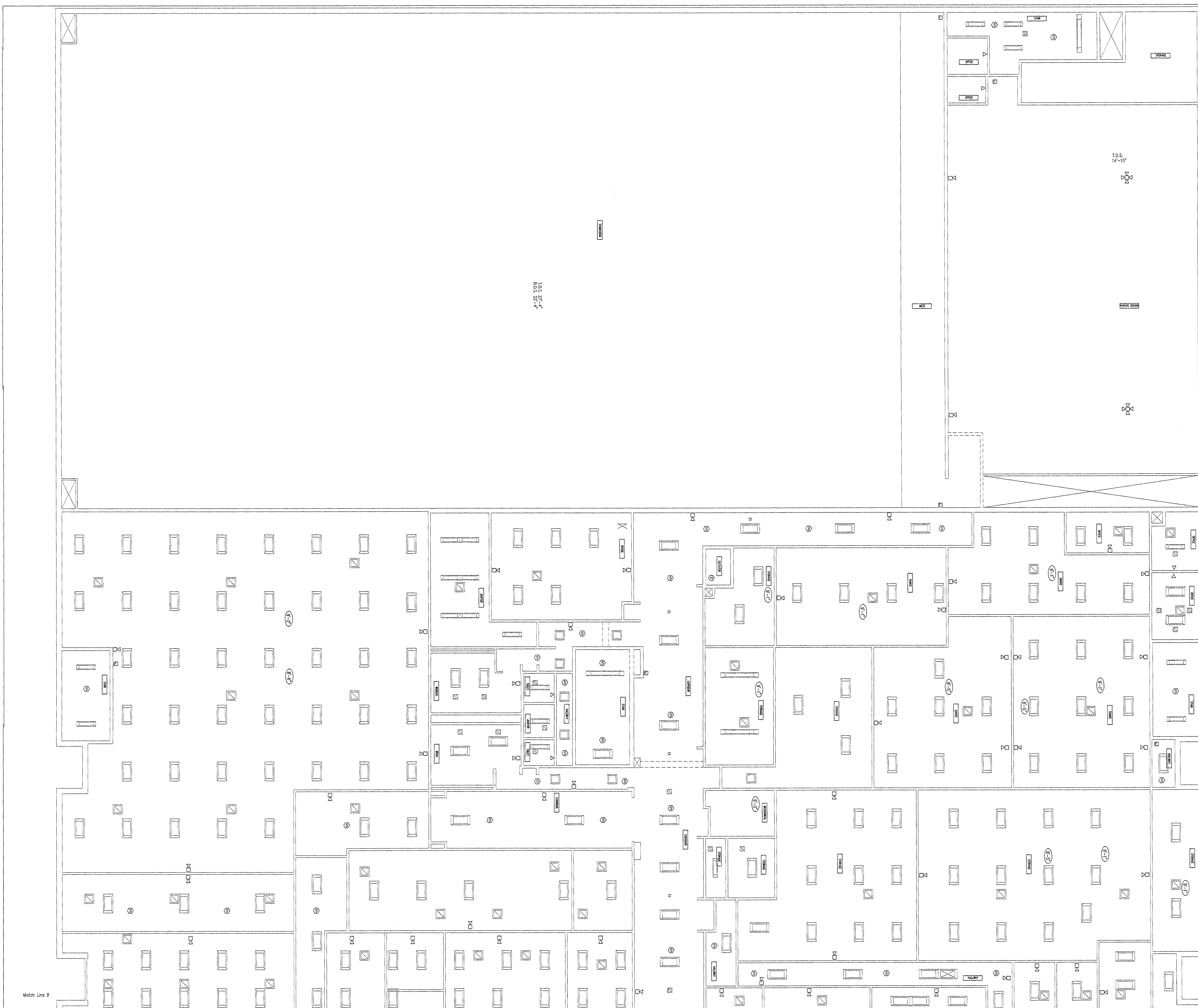
- ▽ STROBE TSSAA - EXTERIOR WEATHER RESISTANT
- SPEAKER ESBA
- Ceiling mounted SPEAKER ESBA/STROBE TSSAA
- WATER FLOW SWITCH
- MANUAL PULL STATION
- SPARKLER NAFC, TAMPON SWITCH
- ⊙ PHOTOELECTRIC SMOKE DETECTOR
- ⊙ PHOTOELECTRIC SMOKE DETECTOR - OUT
- ADDRESSABLE MODULE



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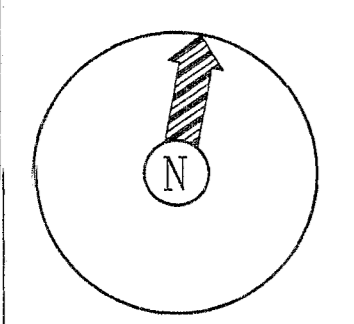
Drawing Title: FIRE ALARM LAYOUT PARTIAL 2ND FLR		
Contract No.	Revisions:	Date:
Drawn By: RBC		
Scale: 1/8" = 1'-0"		
Date: 7-15-18		

Job: NEW FIRE ALARM SYSTEM
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 150 WAKEFIELD STREET
 ROCHESTER, NH 03867



LEGEND

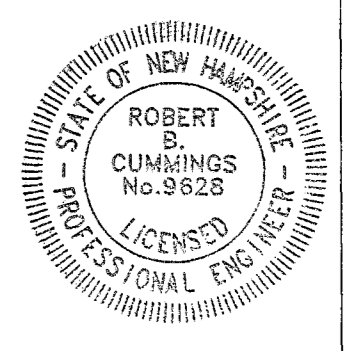
- ◻ STROBE LIGHT - EXTERIOR WEATHER RESISTANT
- ◻ SPEAKER HORN
- ◻ Manually Operated Speaker Horn/STROBE LIGHT
- ◻ WATER FLOW SWITCH
- ◻ MANUAL PULL STATION
- ◻ SPRINKLER VALVE TAMPER SWITCH
- ⊙ PHOTOELECTRIC SMOKE DETECTOR
- ⊙ PHOTOELECTRIC SMOKE DETECTOR - DUCT
- ◻ ADDRESSABLE MODULE



ROBERT CUMMINGS & ASSOCIATES, PLLC
 BOB CUMMINGS NH FPE No. 9628
 181 BOW BOG ROAD BOW, NH 03304
 (603) 496-3933 fax (603) 224-7467
 bobcfpe@comcast.net

Drawing Title: FIRE ALARM LAYOUT PARTIAL 2ND FLR		
Contract No.	Revisions:	Date:
Drawn By: RBC		
Scale: 1/8" = 1'-0"		
Date: 7-15-18		

Job:
 NEW FIRE ALARM SYSTEM
 ROCHESTER COMMUNITY CENTER
 150 WAKEFIELD STREET
 ROCHESTER, NH 03867



SHEET 5 OF 6

LEGEND

- ☐ STROBE 75VA
- ☐ STROBE 75VA - OUTDOOR WEATHER RESISTANT
- ☐ SPEAKER 8W/8V
- ☐ ceiling mounted SPEAKER 8W/8V/STROBE 75VA
- ☐ WIRELESS PULL STATION
- ☐ MANUAL PULL STATION
- ☐ SPRINKLER VALVE TAMPER SWITCH
- ☐ PHOTOELECTRIC SMOKE DETECTOR
- ☐ PHOTOELECTRIC SMOKE DETECTOR - DUCT
- ☐ ADDRESSABLE MODULE
- ☐ HEAT DETECTOR (FIXED TEMP 200F)

GENERAL NOTES:

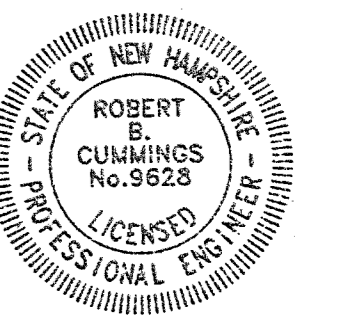
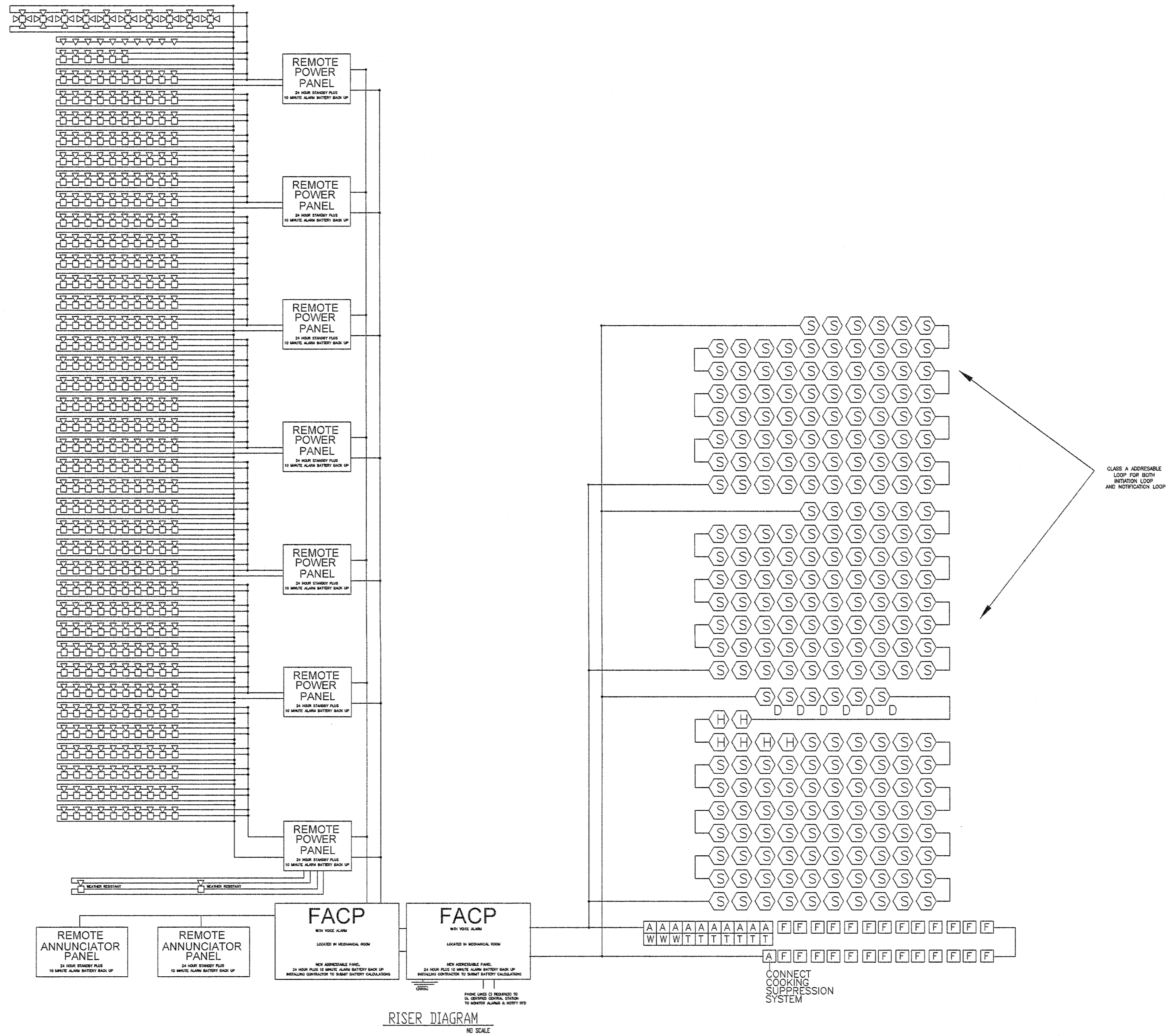
1. THE FIRE ALARM SYSTEM SHALL BE INSTALLED PER NFPA 72 LATEST EDITION, CITY OF ROCHESTER REQUIREMENTS, IBC 2006, NFPA 1-2008, AND NFPA 101-2015 AS ADOPTED.
2. ALL EXISTING FIRE ALARM EQUIPMENT TO REMAIN IN SERVICE UNTIL NEW SYSTEM IS ACCEPTED. AFTER ACCEPTANCE ALL EXISTING EQUIPMENT TO BE REMOVED.
3. REMOVAL SHALL INCLUDE COVER PLATES FOR JUNCTION BOXES AND WALL/CILING OPENINGS OR APPROPRIATE PATCH TO MATCH EXISTING SURROUNDING SURFACE.
4. NEW FIRE ALARM SYSTEM TO BE POWERED BY NORMAL 120VAC CIRCUIT WITH EMERGENCY GENERATOR BACK UP OR BATTERY BACKUP FOR 24 HOUR STANDBY PERIOD FOLLOWED BY 10 MINUTES OF ALARM CONDITION.
5. INSTALL NEW DEVICES AS SHOWN - TRANSFORMERS, TERMINAL CABINETS, SMOKE DETECTORS, HEAT DETECTORS, MANUAL PULL STATIONS, ADDRESSABLE CONTROL MODULES, AND NOTIFICATION APPLIANCES.
6. NOTIFICATION APPLIANCES SHALL BE SYNCHRONIZED STROBE AND HORN/SPEAKERS.
7. PROVIDE NEW STROBES, WHITE IN COLOR, STEADY FLASH RATE, 75 CDB AT LOCATIONS AS SHOWN. TESTING SHALL BE DONE TO VERIFY CIRCUITRY AND ADJUSTABLE POWER FOR THE NEW STROBES.
8. PROVIDE NEW SPEAKERS TO THE SYSTEM TO PROVIDE AUDIBLE NOTIFICATION. CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING OF THE SPEAKERS TO VERIFY SOUND LEVELS ARE 20db ABOVE AMBIENT NOISE LEVEL.
9. 75dB - WHICH EVER IS LOUDER (75 DB IS MINIMUM REQUIRED SOUND LEVEL FOR TONE AND INTELLIGIBILITY AS DESCRIBED BY NFPA 72 FOR VOICE - VOICE FOLLOWED BY TEMPORAL THREE PATTERN).
10. PROMOTE BOOSTER PANELS WHERE NECESSARY TO SUPPLEMENT POWER FOR THE SPEAKERS AND STROBES (NOTE BOOSTER PANELS NOT SHOWN ON LAYOUT).
11. CONTRACTOR IS RESPONSIBLE FOR TESTING OF DEVICES TO ENSURE A FULL AND OPERATIONAL SYSTEM IN ACCORDANCE WITH NFPA 72.
12. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL EXISTING CONDITIONS, LOCATION AND QUANTITY OF ALL DEVICES.
13. CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER PRIOR TO CONDUCTING TESTS ON THE SYSTEM.
14. CONTRACTOR SHALL PROVIDE CERTIFICATE OF COMPLETION AND AS BUILT PLANS.
15. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD.
16. CONTRACTOR SHALL VERIFY ALL CEILING TYPES AND HEIGHTS IN THE FIELD.
17. CONTRACTOR SHALL COORDINATE WITH ALL EQUIPMENT AND BUILDING FEATURES TO ENSURE NO CONFLICTS.
18. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS AND ASSOCIATED FEES.
19. CONTRACTOR SHALL CONTACT PROJECT MANAGER/ENGINEER PRIOR TO MAKING ANY EQUIPMENT LOCATIONS FROM THAT SHOWN ON THE PLANS.
20. ALL EXPOSED WIRING SHALL BE RUN IN CONDUIT OR OTHER APPROVED METHOD/72 WIRING METHOD.
21. A MINIMUM OF TWO NOTIFICATION CIRCUITS SHALL BE RUN ON EACH FLOOR OF THE BUILDING.
22. VOICE ALARM SHALL BE REPEATED THREE TIMES, USE A FEMALE VOICE, AT A MINIMUM TO BE TRANSMITTED THROUGHOUT THE BUILDING.
23. ATTENTION PLEASE: THE SIGNAL TONE YOU HAVE JUST HEARD INDICATES A REPORT OF AN EMERGENCY IN THIS BUILDING. IF YOUR EVACUATION SIGNAL SOUNDS AFTER THIS MESSAGE, WALK TO THE NEAREST EXIT AND LEAVE THE BUILDING. WHILE THE REPORT IS BEING VERIFIED, OCCUPANTS IN OTHER AREAS OF THE BUILDING SHOULD AWAIT FURTHER INSTRUCTIONS.
24. PANEL SHALL HAVE LIVE VOICE CAPABILITY WITH MICROPHONE AT THE PANEL.
25. FIRE ALARM CONTRACTOR TO MAKE ARRANGEMENTS TO HAVE TEST COMPLETED IN THE BUILDING TO CONFIRM FIRE DEPARTMENT COMMUNICATION IS ADEQUATE. SHOULD TEST SHOW THAT COMMUNICATION IS NOT ADEQUATE FIRE ALARM CONTRACTOR SHALL PROVIDE ANOTHER SYSTEM TO SHUNCE FIRE DEPARTMENT COMMUNICATION. THIS SYSTEM SHALL BE COMPATIBLE WITH ROCHESTER FIRE DEPARTMENT EQUIPMENT AND INSTALLATION OF THE SYSTEM SHALL BE COORDINATED WITH THE ROCHESTER FIRE DEPARTMENT.
26. PANEL/EQUIPMENT SHALL HAVE CAPABILITY FOR EXPANSION TO INCLUDE ADDITIONAL NON-FIRE EMERGENCY NOTIFICATION EQUIPMENT IN THE FUTURE.

SEQUENCE OF OPERATION - FIRE

1. ALARM SYSTEM IS SETUP FOR GENERAL EVACUATION ON ALL FIRE ALARM CONDITIONS.
2. ALARM NOTIFICATION DEVICES INCLUDE SMOKE DETECTOR, HEAT DETECTOR, MANUAL PULL STATION & WATER FLOW.
3. ALL SPEAKERS AND STROBES WILL OPERATE UPON ALARM SIGNAL RECEIVED AT THE PANEL.
4. ALL ALARMS WILL OPERATE EXTERIOR STROBE AND BE TRANSMITTED TO UL CENTRAL STATION TO TRANSMIT ALARM TO FIRE DEPARTMENT.
5. ALL TROUBLE AND SUPERVISORY ALARMS WILL SOUND LOCAL ALARM AT PANEL AND TRANSMIT TO CENTRAL STATION. TROUBLE AND SUPERVISORY SIGNALS WILL NOT TRANSMIT TO THE FIRE DEPARTMENT.

ELEVATOR RECALL

1. SMOKE DETECTOR IN ELEVATOR LOBBY AND MACHINE ROOM SHALL START RECALL FUNCTION - FIRST FLOOR IS PRIMARY FOR SECOND AND SECOND FLOOR IS PRIMARY FOR THE FIRST.
2. HEAT DETECTOR AT TOP OF ELEVATOR SHAFT AND ROSE MACHINE ROOM SHALL TRIGGER SHUNT TRIP FOR ELEVATOR POWER.
3. SPRINKLER HEAD AT TOP OF ELEVATOR SHAFT AND MACHINE ROOM WILL HAVE FUSIBLE LINK TEMP ABOVE HEAT DETECTOR (200F AT TOP OF SHAFT AND 165F IN MACHINE ROOM) TO OPERATE AFTER SHUNT TRIP.



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