Addendum No. 1 March 7, 2024
Page 1 of 15

Notice to Prospective Bidders

Bid Documents for:

FIRE ALARM PROJECT

FIRE AND RESCUE DEPARTMENT

MANCHESTER-BY-THE-SEA

The attention of bidders submitting bids for the above subject project is called to the following addendum to the specifications and drawings. The items set forth herein, whether of omission, addition, substitution, or clarifications are all to be included in and form a part of the bid submitted.

SECTION 1: GENERAL

- 1.01 Please note the General Bid Opening date has changed. Sealed bids for the General Contract will be received at **Town of Manchester-By-The-Sea Town Hall, DPW Office Room 6, 3RD Floor, 10 Central Street, Manchester-By-The-Sea, MA 01944**, prior to 11:00 AM on MARCH 20, 2024 after which time all bids will be opened and read aloud.
- 1.02 Attached is a list of attendees from the Pre-Bid Conference held on March 5, 2024.

SECTION 2: QUESTIONS & CLARIFICATIONS

- 1.03 **Clarification:** Water Treatment Facility is in Hamilton, so Hamilton permits will be required.
- 1.04 **Clarification:** Fire Department to be given priority over the Alternate Buildings due to grant period expiring. Final completion date will need to be July 15, 2024.
- 1.05 **Clarification:** Knox Boxes to be reused at all locations. Updated Drawings are included within this Addendum.



BLW ENGINEERS, INC 311 Great Road, Post Office Box 1551 Littleton, Massachusetts 01460 Tel: 978.486.4301 Fax: 978.428.0067 info@blwengineers.com

Project: 23133 FIRE AND RESCUE DEPARTMENT - FIRE ALARM

Date:

03/05/24

10:00 AM

Company Name	Address	Contact Name	Phone	Email
PRT PINE TREM	DIFR MAIN MA	BWORK	282 gras	REWORKS CPINERIDERTECH.

MANCHESTER-BY-THE-SEA FIRE AND RESCUE DEPARTMENT FIRE ALARM PROJECT

Manchester-by-the-Sea
Fire and Rescue Department
12 School Street
Manchester-by-the-Sea, MA 01944



DRAWING INDEX:

S - TITLE SHEET

FA001 - FIRE ALARM LEGENDS, RISERS, NOTES

FA100 - FIRE ALARM DEVICE LAYOUT

Sea





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Client:

MANCHESTER-BY-THE-SEA FIRE AND RESCUE DEPARTMENT

MANCHESTER-BY-THE-SEA, MA 0194

Submission:

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ALARM PROJECT

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FIRE

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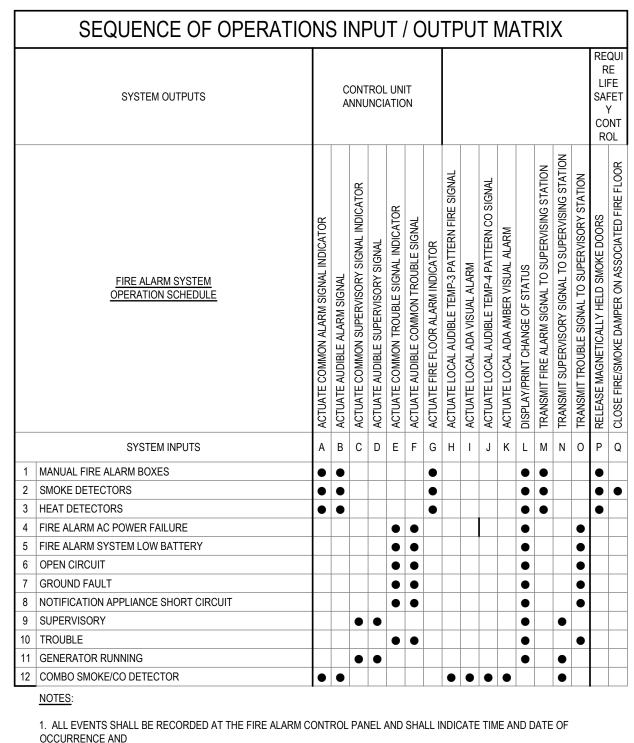
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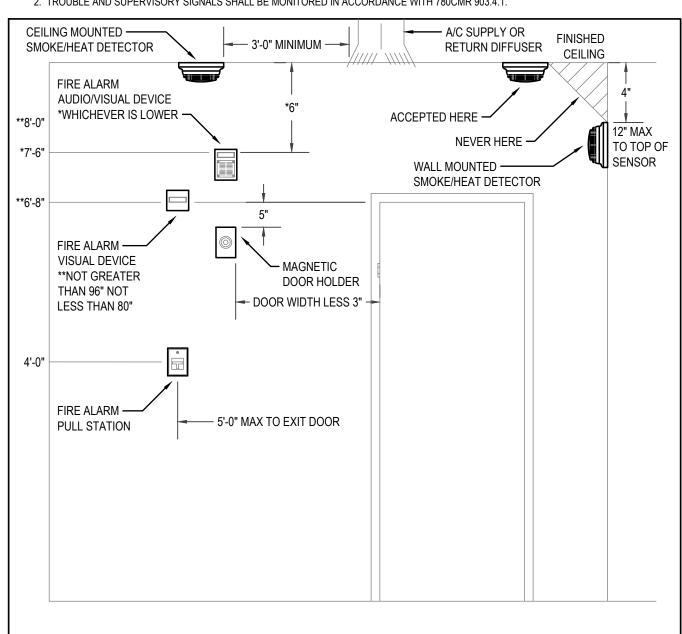
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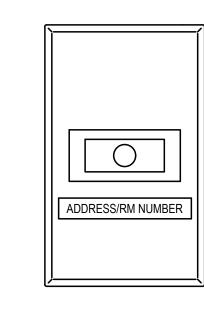


OCCURRENCE AND LIST DEVICE INITIATED.

2. TROUBLE AND SUPERVISORY SIGNALS SHALL BE MONITORED IN ACCORDANCE WITH 780CMR 903.4.1.

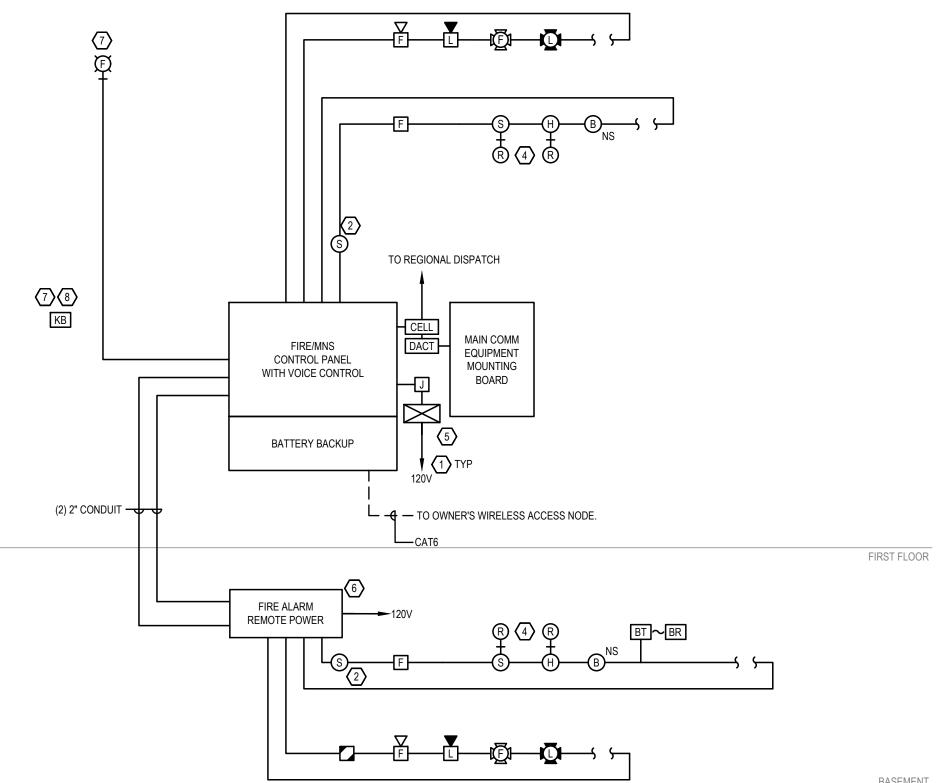


(1) DEVICE MOUNTING HEIGHT DETAIL



1. AT A MINIMUM, ELECTRICAL CONTRACTOR SHALL PROVIDE TYPED LABELS WITH PTOUCH MACHINE TO INDICATE ADDRESS OF FIRE ALARM DEVICE WITHIN ENCLOSED ROOM OR ROOM NUMBER IF SYSTEMS IS ZONED. LABELING SYSTEM SHALL BE APPLIED BUT NOT LIMITED TO THE FOLLOWING DEVICES: AUDIBLE/VISUAL DEVICE, VISUAL DEVICE, SMOKE DETECTOR, REMOTE TEST STATION, REMOTE ALARM INDICATOR, FLOW SWITCH, TAMPER SWITCH, ETC.

(2) TYPICAL FIRE ALARM DEVICE LABELING DETAIL



- 7. COORDINATE EXACT LOCATION OF EXTERIOR EQUIPMENT WITH EXISTING CONDITIONS AND FIRE DEPARTMENT PRIOR TO ROUGH
- 8. PROVIDE RECESSED KEY BOX. COORDINATE WITH FIRE DEPARTMENT.

GENERAL NOTES

LEGEND IS INTENDED TO SHOW DEPICTION OF SYMBOLS. IT DOES NOT IMPLY INTENT OF SCOPE. NOT ALL SYMBOLS SHOWN ON THIS LEGEND WILL BE USED ON THE DWGS.

- PERFORM WORK AND PROVIDE MATERIALS AND EQUIPMENT TO MAKE INSTALLATION COMPLETE IN EVERY DETAIL UNDER THIS CONTRACT WHETHER OR NOT SPECIFICALLY SHOWN ON DRAWINGS.
- ALL EQUIPMENT AND WIRING ON DWGS IS SHOWN DIAGRAMMATICALLY. EXACT LOCATION AND METHOD OF SUPPORT SHALL BE DETERMINED IN THE FIELD, EXCEPT WHERE SPECIFIC DIMENSIONS AND DETAILS ARE SHOWN. ALL CONDUIT RUNS SHALL BE RIGIDLY

11

EXISTING EQUIPMENT DESIGNATIONS EXISTING TO BE REMOVED, REMOVE ALL ASSOCIATE CONDUIT AND CONDUCTORS

EXISTING TO REMAIN

EXISTING EQUIPMENT TO BE REPLACED WITH NEW, CONNECT NEW EQUIPMENT TO EXISTING CIRCUIT

EXISTING EQUIPMENT TO BE RELOCATED, JUNCTION AND EXTEND EXISTING CONDUIT AND CONDUCTORS

NEW EQUIPMENT TO BE CONNECTED TO NEAREST AVAILABLE BRANCH CIRCUIT, PROVIDE NEW BRANCH CIRCUITRY FROM NEAREST EXISTING DEVICE (TO REMAIN) TO NEW DEVICE AS REQUIRED

NEW LOCATION OF EXISTING EQUIPMENT, JUNCTION AND EXTEND CONDUIT AND CONDUCTORS AS REQUIRED

FIRE ALARM

YPICAL DEVICE ANNOTATION: "15" INDICATES CANDELA RATING

ADDRESSABLE AUDIO / VISUAL DEVICE "F" INDICATES HORN / VISUAL "S" INDICATES SPEAKER / VISUAL

ADDRESSABLE VISUAL ONLY DEVICE

"L" INDICATES WHITE LENS FOR FIRE "C" INDICATES AMBER LENS FOR CARBON MONOXIDE ADDRESSABLE CEILING MOUNTED AUDIO / VISUAL DEVICE

"F" INDICATES HORN / VISUAL "S" INDICATES SPEAKER / VISUAL

ADDRESSABLE CEILING MOUNTED VISUAL ONLY DEVICE

F MANUAL PULL STATION

SMOKE DETECTOR "D" INDICATES DUCT SMOKE DETECTOR

"R" INDICATES ELEVATOR RECALL "NS" INDICATES NON-SYSTEM DEVICE, 120V HARDWIRED WITH BATTERY BACKUP

HEAT DETECTOR, 135° RATE-OF-RISE TYPE "F" INDICATES 190° FIXED TEMPERATURE "C" INDICATES MOUNTED ABOVE HUNG CEILING

LOW FREQUENCY AUDIO DEVICE, 520HZ

COMBINATION SMOKE / CARBON MONOXIDE DETECTOR

"NS" INDICATES NON-SYSTEM DEVICE, 120V HARDWIRED WITH BATTERY BACKUP

FIRE FIGHTER'S TELEPHONE JACK

FIRE ALARM DEVICE "FACP" INDICATES FIRE ALARM CONTROL PANEL

"FATC" INDICATES FIRE ALARM TERMINAL CABINET "FARP" INDICATES FIRE ALARM REMOTE POWER "AES" INDICATES AES MESH NETWORK COMMUNICATOR, COORDINATE TYPE WITH LOCAL FIRE DEPARTMENT

"ANN" INDICATES FIRE ALARM ANNUNCIATOR PANEL

"DACT" INDICATES DIGITAL ALARM COMMUNICATOR TRANSMITTER "CELL" INDICATES CELLULAR COMMUNICATOR "RADIO" INDICATES RADIO COMMUNICATOR

"CM" INDICATES CONTROL MODULE "MM" INDICATES MONITOR MODULE "KB" INDICATES KEY BOX

"RTS" INDICATES REMOTE TEST STATION "BT" INDICATES BEAM SMOKE DETECTOR TRANSCEIVER "BR" INDICATES BEAM SMOKE DETECTOR REFLECTOR

FIRE ALARM ANNUNCIATION DEVICE "B" INDICATES ALARM BELL, 120V HARDWIRED, EXTERIOR MOUNTED, WEATHERPROOF

"F" INDICATES RED INDICATING BEACON, EXTERIOR MOUNTED, WEATHERPROOF

"R" INDICATES REMOTE AREA LED INDICATOR

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Littleton, Massachusetts 01460 T: 978.486.4301 F: 978.428.0067 www.blwengineers.com HVAC * Electrical * Plumbing * Fire Protection

Client:

MANCHESTER-BY-THE-SEA FIRE AND RESCUE DEPARTMENT 12 SCHOOL ST

MANCHESTER-BY-THE-SEA, MA 01944

02/26/24

Submission:

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Revision:

Project:

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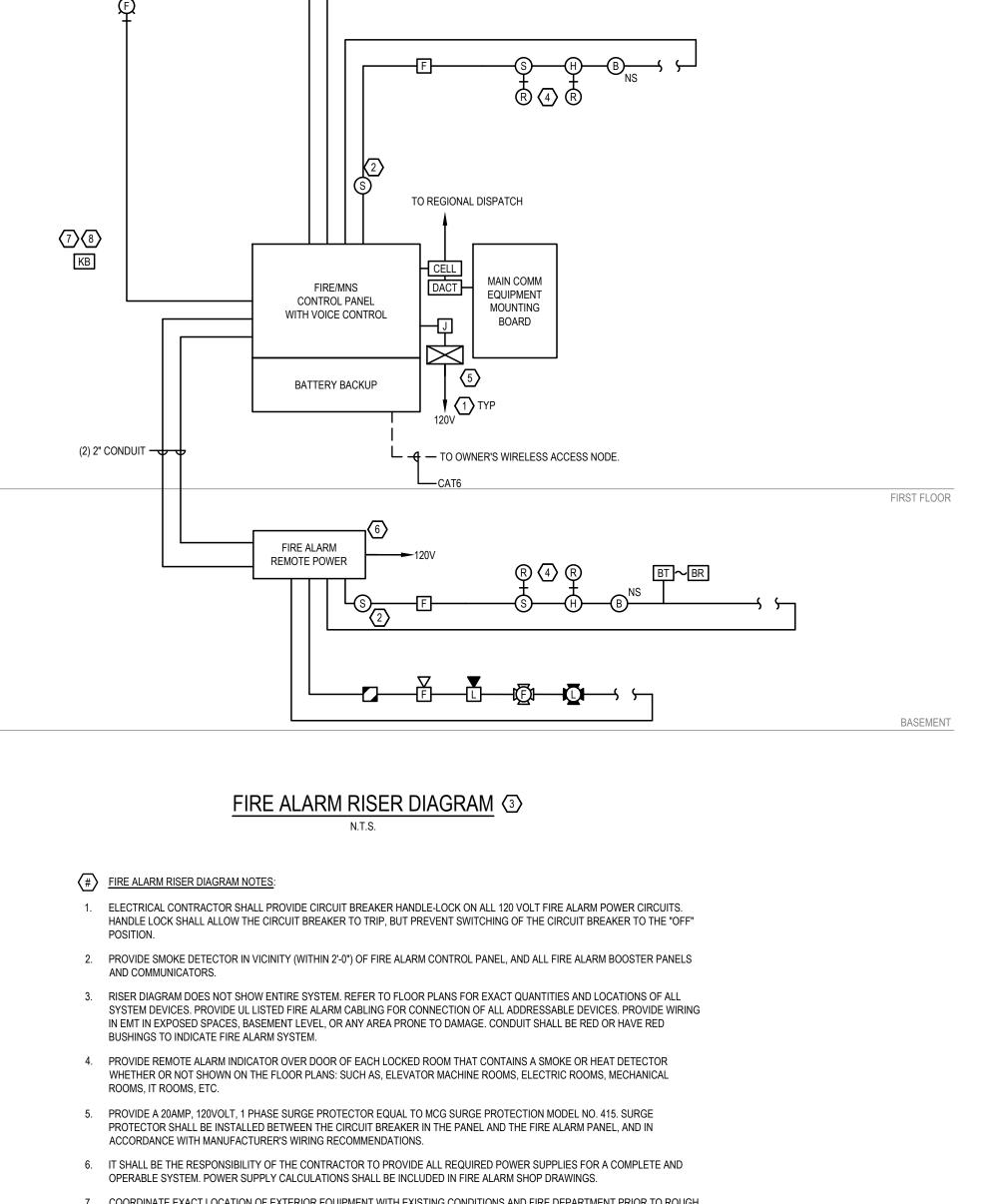
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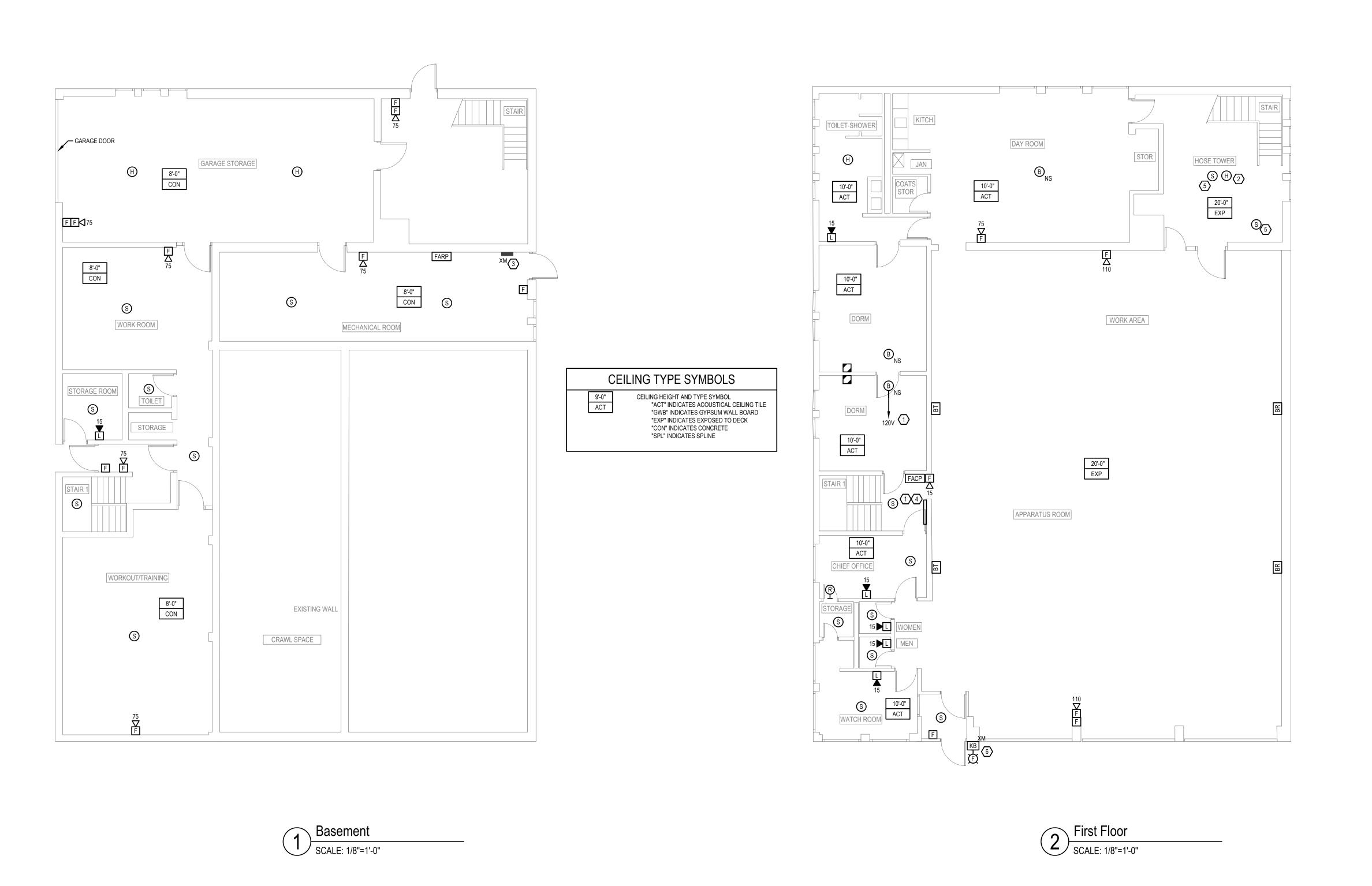
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Project No.: 23133 Drawn By: Checked By: As Noted

Title: FIRE ALARM LEGENDS, RISERS, NOTES

Drawing No.:





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NOTES:

CONDITIONS.

NETWORK PANELS IN THIS AREA.

1. PROVIDE CONNECTION FROM NEAREST 20A, 120V SPARE CIRCUIT.

EXISTING PANELBOARD DIRECTORY AT COMPLETION OF WORK.

2. MOUNT NEW HEAT DETECTOR AT TOP OF HOSE TOWER. COORDINATE WITH EXISTING

 PROVIDE NEW CIRCUIT BREAKERS AND LOCK HANDLE DEVICES AS REQUIRED TO SERVE ALL NEW FIRE ALARM SYSTEM LOADS FROM EXISTING PANELBOARD. UPDATE

4. COORDINATE EXACT LOCATION FOR NEW FIRE ALARM CONTROL PANEL, BATTERIES,

5. ADDITIONAL SMOKE DETECTORS SHOWN TO COVER FUTURE STAIRWELL/OFFICE ADDITION/CONVERSION. DEVICES WILL NOT BE EMPLOYED IN STRUCTURE AS

6. COORDINATE EXACT LOCATION OF EXTERIOR EQUIPMENT WITH EXISTING CONDITIONS AND FIRE DEPARTMENT PRIOR TO ROUGH IN.

POWER SUPPLIES, AND ANNUNCIATOR WITH EXISTING CONDITIONS. MAINTAIN A CLEAR PASSAGEWAY AT STAIRWELL AND HALLWAY. COORDINATE WITH EXISTING



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Client:

MANCHESTER-BY-THE-SEA FIRE AND RESCUE DEPARTMENT

> 12 SCHOOL ST MANCHESTER-BY-THE-SEA, MA 01944

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Title:

FIRE ALARM DEVICE LAYOUT

Drawing No.:

FA100

MANCHESTER-BY-THE-SEA WASTEWATER TREATMENT PLANT FIRE ALARM PROJECT

Town of Manchester-by-the-Sea 10 Central Street Manchester-by-the-Sea, MA 01944

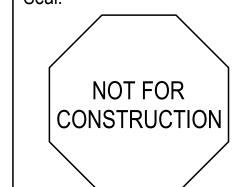


DRAWING INDEX:

ΓS - TITLE SHEET

FA001 - FIRE ALARM LEGENDS, RISERS, NOTES FAD100 - OPERATIONS BUILDING DEMOLITION PLAN

FAD101 - HEADWORKS AND BIOFILTER FAN ROOM DEMOLITION PLAN
FA100 - OPERATIONS BUILDING DEVICE LAYOUT
FA101 - HEADWORKS AND BIOFILTER FAN ROOM DEVICE LAYOUT





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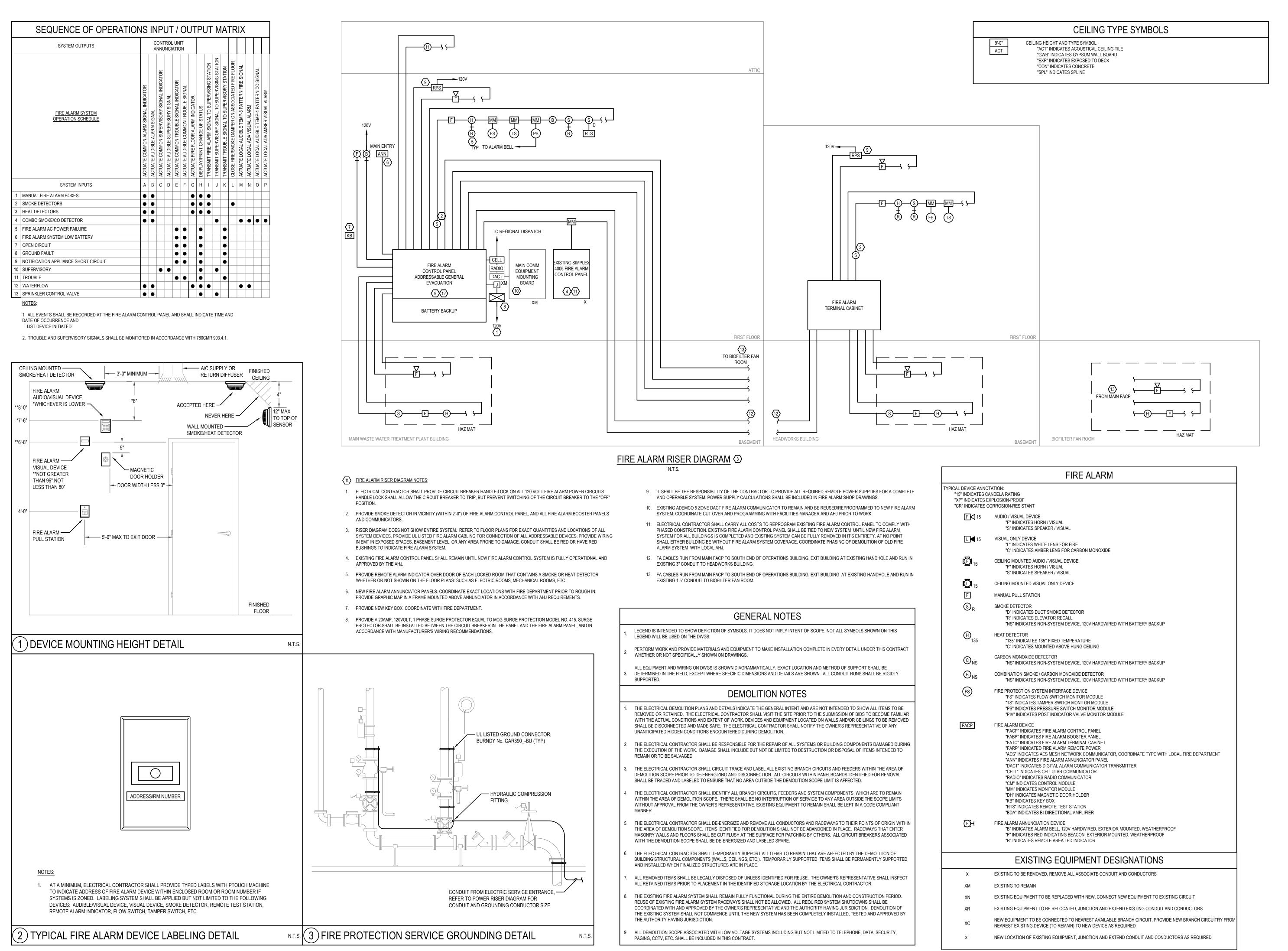
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TOWN OF
MANCHESTER-BY-THE-SEA

MANCHESTER-BY-THE-SEA, MA 01944

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ATER TREATMENT PLANE ALARM PROJECT

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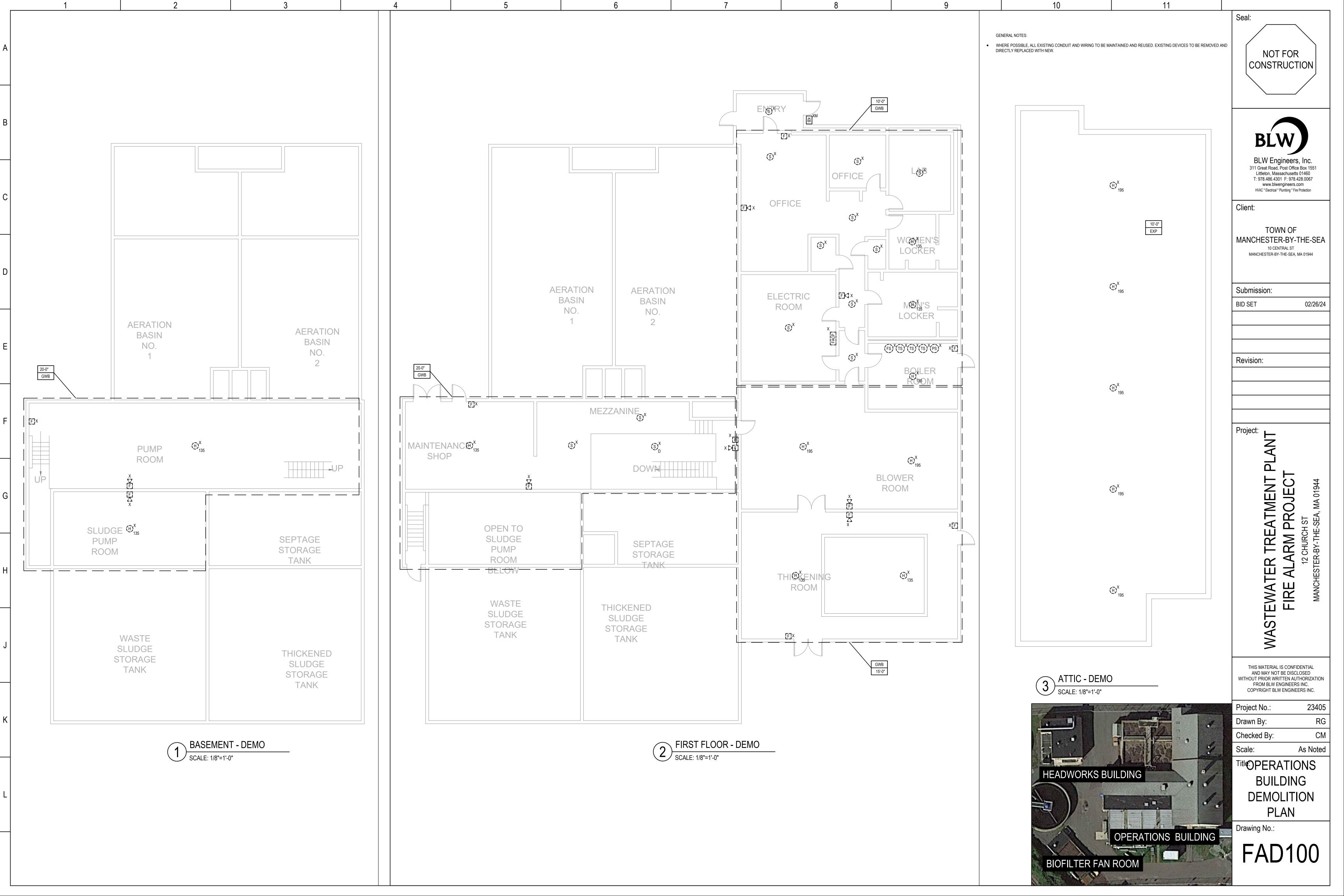
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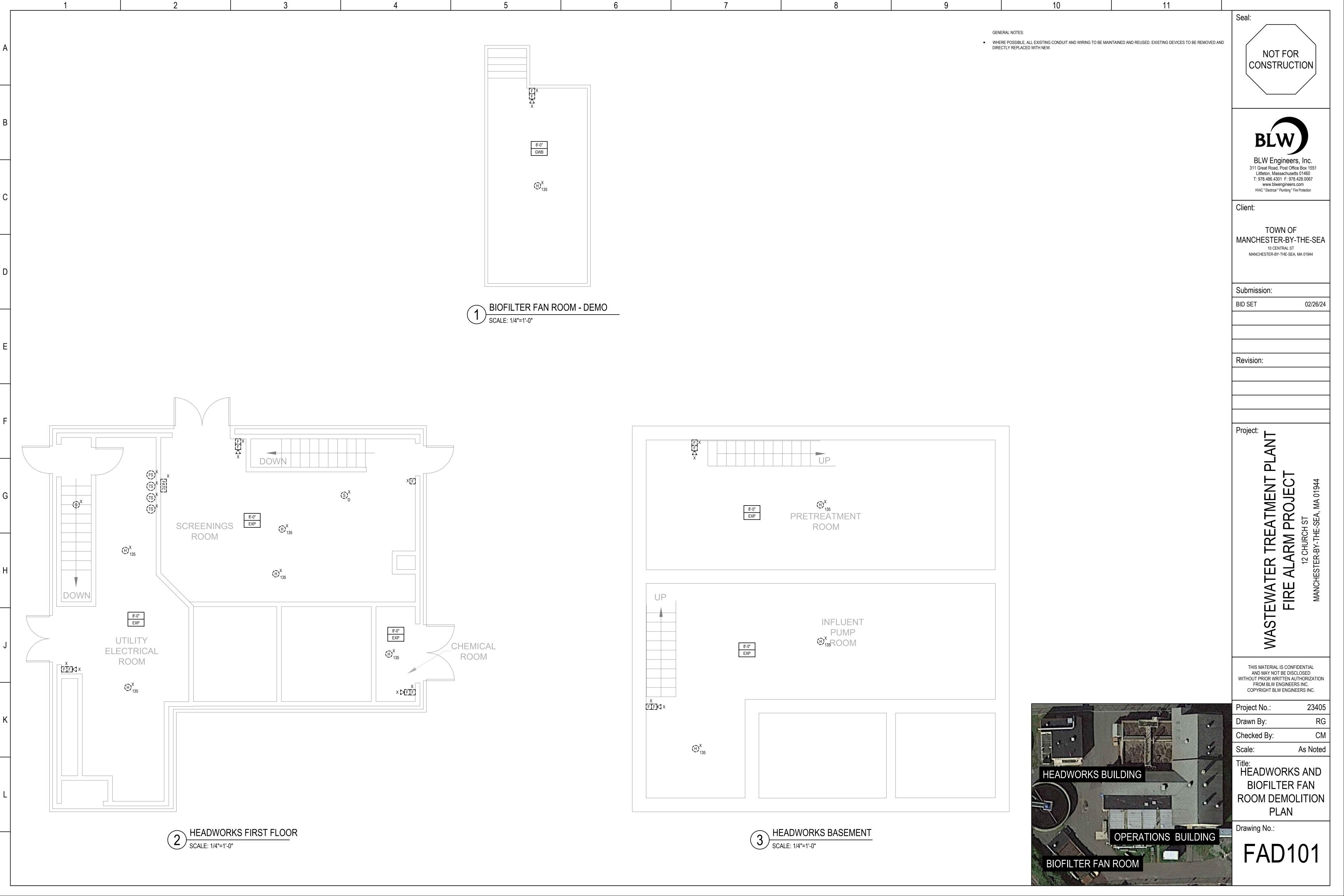
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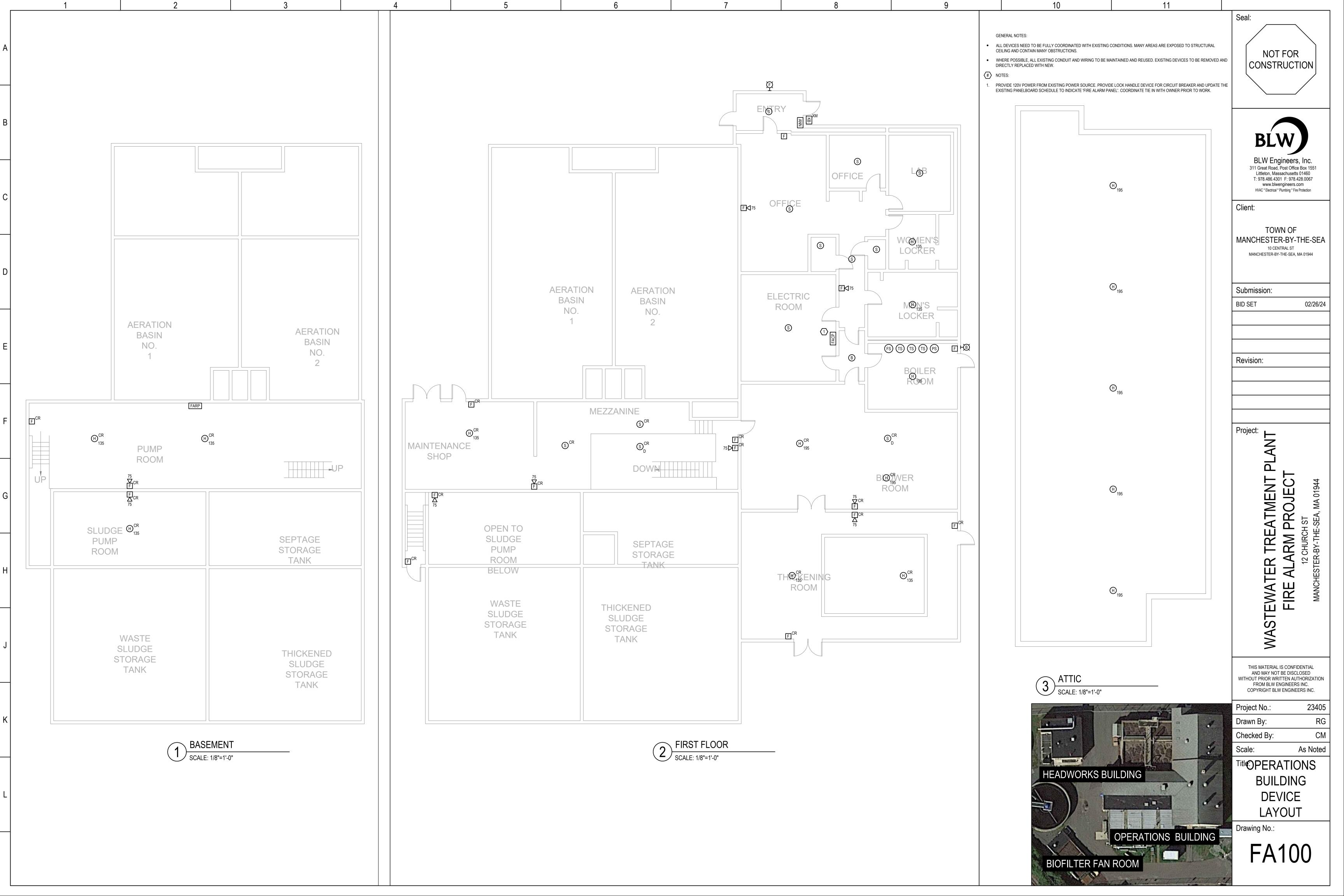
FIRE ALARM
LEGENDS,
RISER NOTES

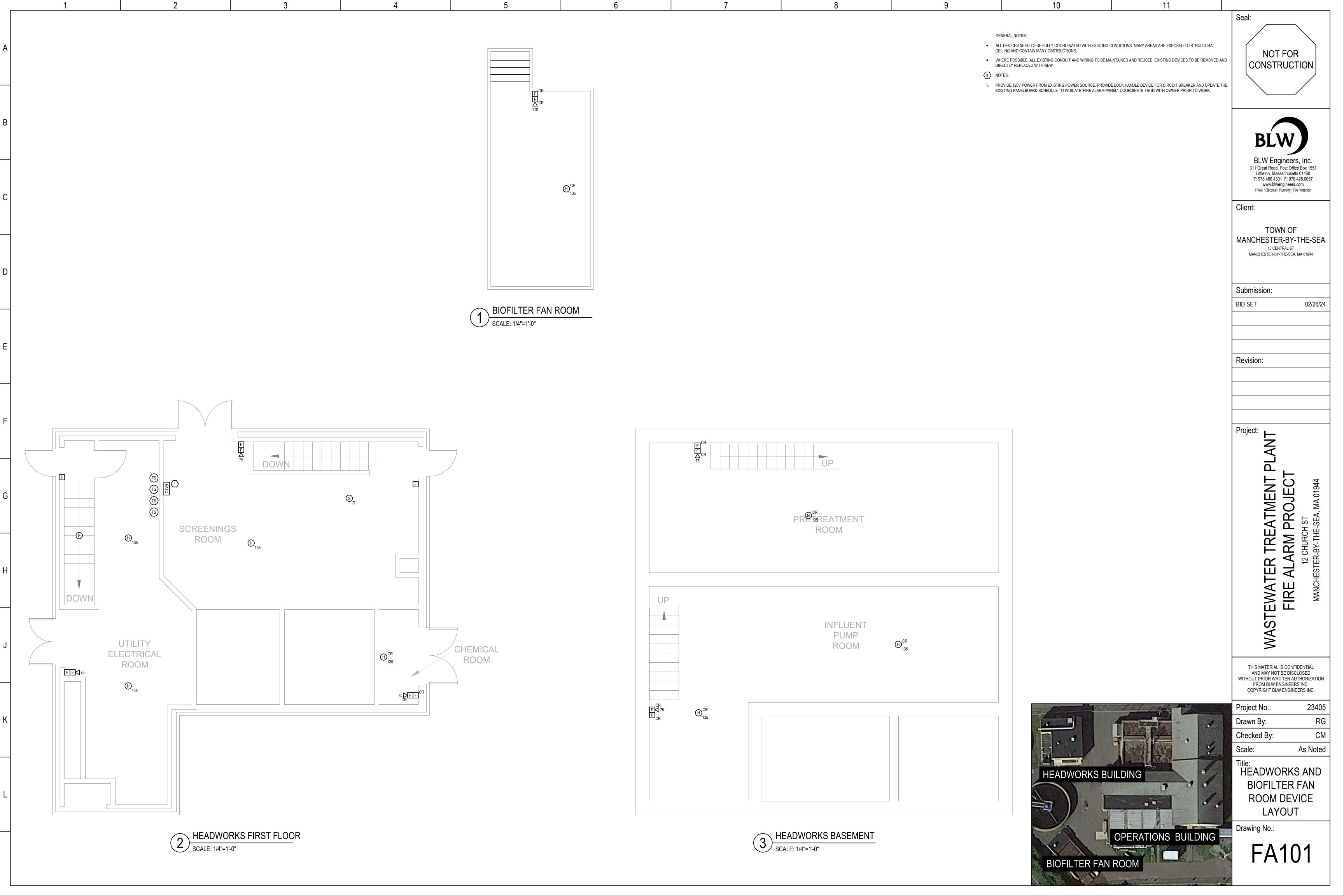
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MANCHESTER-BY-THE-SEA WATER TREATMENT FACILITY FIRE ALARM PROJECT

Town of Manchester-by-the-Sea 10 Central Street Manchester-by-the-Sea, MA 01944



DRAWING INDEX:

ΓS - TITLE SHEET

FA001 - FIRE ALARM LEGENDS, RISERS, NOTES

FAD100 - FIRE ALARM DEMOLITION PLAN FA100 - FIRE ALARM DEVICE LAYOUT





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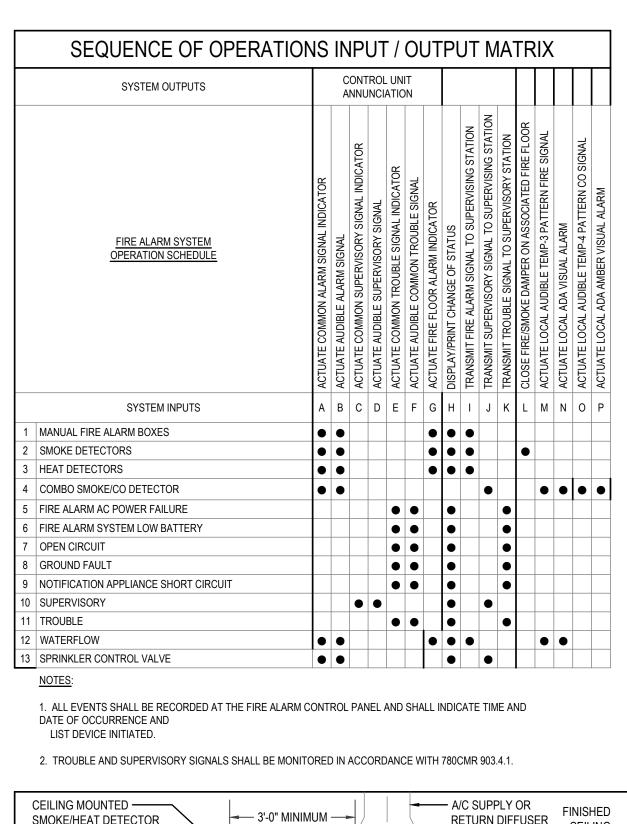
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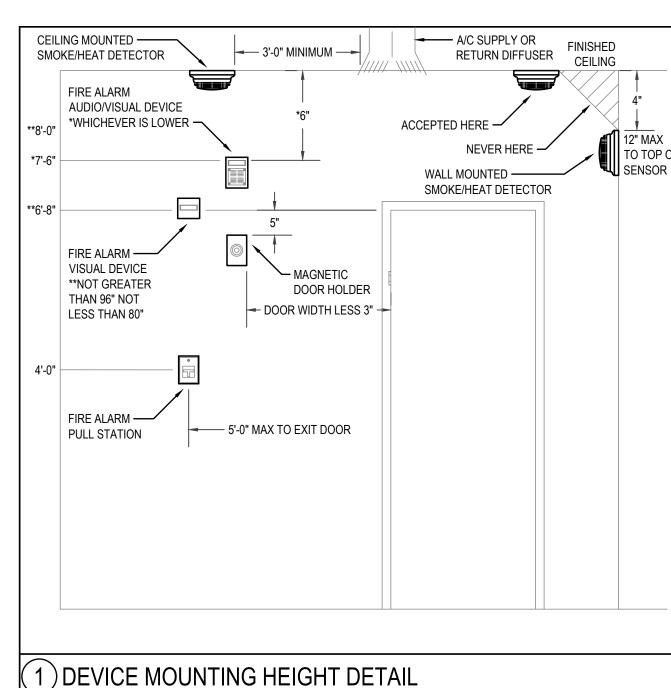
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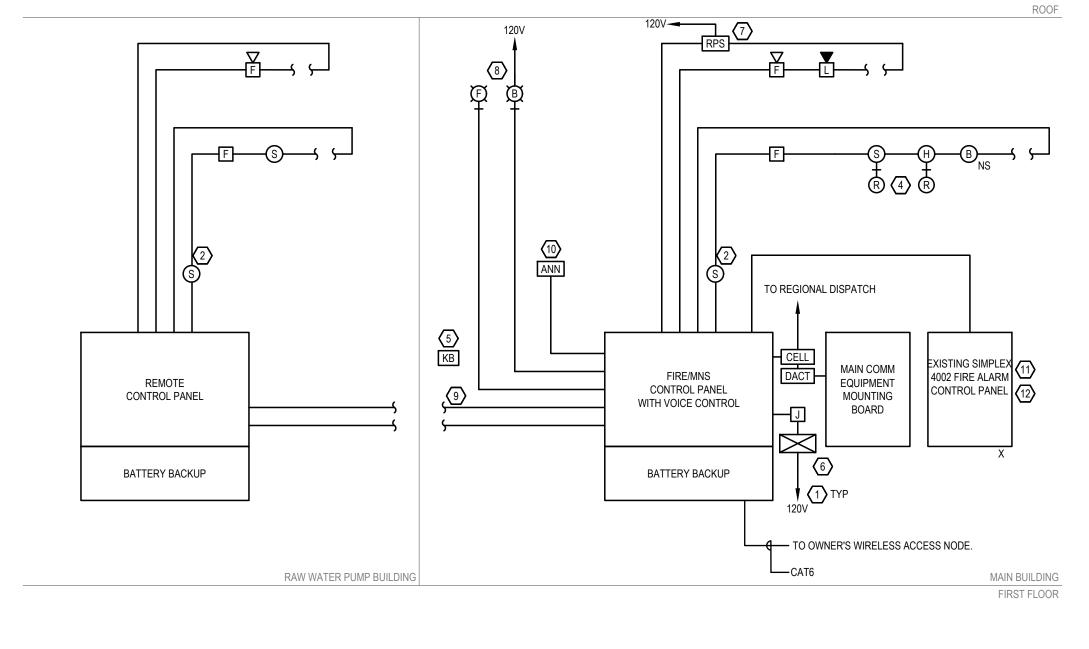


TO INDICATE ADDRESS OF FIRE ALARM DEVICE WITHIN ENCLOSED ROOM OR ROOM NUMBER IF

SYSTEMS IS ZONED. LABELING SYSTEM SHALL BE APPLIED BUT NOT LIMITED TO THE FOLLOWING DEVICES: AUDIBLE/VISUAL DEVICE, VISUAL DEVICE, SMOKE DETECTOR, REMOTE TEST STATION,

REMOTE ALARM INDICATOR, FLOW SWITCH, TAMPER SWITCH, ETC.

(2) TYPICAL FIRE ALARM DEVICE LABELING DETAIL



FIRE ALARM RISER DIAGRAM NOTES:

- 1. ELECTRICAL CONTRACTOR SHALL PROVIDE CIRCUIT BREAKER HANDLE-LOCK ON ALL 120 VOLT FIRE ALARM POWER CIRCUITS. HANDLE LOCK SHALL ALLOW THE CIRCUIT BREAKER TO TRIP, BUT PREVENT SWITCHING OF THE CIRCUIT BREAKER TO THE "OFF"
- 2. PROVIDE SMOKE DETECTOR IN VICINITY (WITHIN 2'-0") OF FIRE ALARM CONTROL PANEL, AND ALL FIRE ALARM BOOSTER PANELS
- 3. RISER DIAGRAM DOES NOT SHOW ENTIRE SYSTEM. REFER TO FLOOR PLANS FOR EXACT QUANTITIES AND LOCATIONS OF ALL SYSTEM DEVICES. PROVIDE UL LISTED FIRE ALARM CABLING FOR CONNECTION OF ALL ADDRESSABLE DEVICES. PROVIDE WIRING IN EMT IN EXPOSED SPACES, BASEMENT LEVEL, OR ANY AREA PRONE TO DAMAGE. CONDUIT SHALL BE RED OR HAVE RED BUSHINGS TO INDICATE FIRE ALARM SYSTEM.
- 4. PROVIDE REMOTE ALARM INDICATOR OVER DOOR OF EACH LOCKED ROOM THAT CONTAINS A SMOKE OR HEAT DETECTOR WHETHER OR NOT SHOWN ON THE FLOOR PLANS: SUCH AS ELECTRIC ROOMS, MECHANICAL ROOMS, ETC.
- 5. PROVIDE NEW KEY BOX. COORDINATE WITH FIRE DEPARTMENT.
- 6. PROVIDE A 20AMP, 120VOLT, 1 PHASE SURGE PROTECTOR EQUAL TO MCG SURGE PROTECTION MODEL NO. 415. SURGE PROTECTOR SHALL BE INSTALLED BETWEEN THE CIRCUIT BREAKER IN THE PANEL AND THE FIRE ALARM PANEL, AND IN ACCORDANCE WITH MANUFACTURER'S WIRING RECOMMENDATIONS.
- 7. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL REQUIRED POWER SUPPLIES FOR A COMPLETE AND OPERABLE SYSTEM. POWER SUPPLY CALCULATIONS SHALL BE INCLUDED IN FIRE ALARM SHOP DRAWINGS.
- 8. COORDINATE EXACT LOCATION OF EXTERIOR EQUIPMENT WITH EXISTING CONDITIONS AND FIRE DEPARTMENT PERSONNEL PRIOR
- 9. APPROX. 900' FA CABLE RUN IN EXISTING 1" CONDUIT FROM MAIN FIRE ALARM CONTROL PANEL TO REMOTE CONTROL PANEL IN RAW WATER PUMP BUILDING . REFER TO MANUFACTURER REQUIREMENTS FOR TYPE AND SIZING OF FA CABLE.

10. NEW FIRE ALARM ANNUNCIATOR PANELS. COORDINATE EXACT LOCATIONS WITH FIRE DEPARTMENT PRIOR TO ROUGH IN. PROVIDE GRAPHIC MAP IN A FRAME MOUNTED ABOVE ANNUNCIATOR IN ACCORDANCE WITH AHJ REQUIREMENTS.

- 11. EXISTING FIRE ALARM CONTROL PANEL SHALL REMAIN UNTIL NEW FIRE ALARM CONTROL SYSTEM IS FULLY OPERATIONAL AND
- 12. ELECTRICAL CONTRACTOR SHALL CARRY ALL COSTS TO REPROGRAM EXISTING FIRE ALARM CONTROL PANEL TO COMPLY WITH PHASED CONSTRUCTION. EXISTING FIRE ALARM CONTROL PANEL SHALL BE TIED TO NEW SYSTEM UNTIL NEW FIRE ALARM SYSTEM FOR ALL BUILDINGS IS COMPLETED AND EXISTING SYSTEM CAN BE FULLY REMOVED IN IT'S ENTIRETY. AT NO POINT SHALL EITHER BUILDING BE WITHOUT FIRE ALARM SYSTEM COVERAGE. COORDINATE PHASING OF DEMOLITION OF OLD FIRE ALARM SYSTEM WITH LOCAL AHJ.

GENERAL NOTES

- LEGEND IS INTENDED TO SHOW DEPICTION OF SYMBOLS. IT DOES NOT IMPLY INTENT OF SCOPE. NOT ALL SYMBOLS SHOWN ON THIS LEGEND WILL BE USED ON THE DWGS.
- PERFORM WORK AND PROVIDE MATERIALS AND EQUIPMENT TO MAKE INSTALLATION COMPLETE IN EVERY DETAIL UNDER THIS CONTRACT WHETHER OR NOT SPECIFICALLY SHOWN ON DRAWINGS.
- ALL EQUIPMENT AND WIRING ON DWGS IS SHOWN DIAGRAMMATICALLY. EXACT LOCATION AND METHOD OF SUPPORT SHALL BE DETERMINED IN THE FIELD, EXCEPT WHERE SPECIFIC DIMENSIONS AND DETAILS ARE SHOWN. ALL CONDUIT RUNS SHALL BE RIGIDLY

DEMOLITION NOTES

- THE ELECTRICAL DEMOLITION PLANS AND DETAILS INDICATE THE GENERAL INTENT AND ARE NOT INTENDED TO SHOW ALL ITEMS TO BE REMOVED OR RETAINED. THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE PRIOR TO THE SUBMISSION OF BIDS TO BECOME FAMILIAR WITH THE ACTUAL CONDITIONS AND EXTENT OF WORK. DEVICES AND EQUIPMENT LOCATED ON WALLS AND/OR CEILINGS TO BE REMOVED SHALL BE DISCONNECTED AND MADE SAFE. THE ELECTRICAL CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF ANY UNANTICIPATED HIDDEN CONDITIONS ENCOUNTERED DURING DEMOLITION.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ALL SYSTEMS OR BUILDING COMPONENTS DAMAGED DURING THE EXECUTION OF THE WORK. DAMAGE SHALL INCLUDE BUT NOT BE LIMITED TO DESTRUCTION OR DISPOSAL OF ITEMS INTENDED TO
- THE ELECTRICAL CONTRACTOR SHALL CIRCUIT TRACE AND LABEL ALL EXISTING BRANCH CIRCUITS AND FEEDERS WITHIN THE AREA OF DEMOLITION SCOPE PRIOR TO DE-ENERGIZING AND DISCONNECTION. ALL CIRCUITS WITHIN PANELBOARDS IDENTIFIED FOR REMOVAL SHALL BE TRACED AND LABELED TO ENSURE THAT NO AREA OUTSIDE THE DEMOLITION SCOPE LIMIT IS AFFECTED.
- THE ELECTRICAL CONTRACTOR SHALL IDENTIFY ALL BRANCH CIRCUITS, FEEDERS AND SYSTEM COMPONENTS, WHICH ARE TO REMAIN WITHIN THE AREA OF DEMOLITION SCOPE. THERE SHALL BE NO INTERRUPTION OF SERVICE TO ANY AREA OUTSIDE THE SCOPE LIMITS WITHOUT APPROVAL FROM THE OWNER'S REPRESENTATIVE. EXISTING EQUIPMENT TO REMAIN SHALL BE LEFT IN A CODE COMPLIANT
- THE ELECTRICAL CONTRACTOR SHALL DE-ENERGIZE AND REMOVE ALL CONDUCTORS AND RACEWAYS TO THEIR POINTS OF ORIGIN WITHIN THE AREA OF DEMOLITION SCOPE. ITEMS IDENTIFIED FOR DEMOLITION SHALL NOT BE ABANDONED IN PLACE. RACEWAYS THAT ENTER MASONRY WALLS AND FLOORS SHALL BE CUT FLUSH AT THE SURFACE FOR PATCHING BY OTHERS. ALL CIRCUIT BREAKERS ASSOCIATED WITH THE DEMOLITION SCOPE SHALL BE DE-ENERGIZED AND LABELED SPARE.
- THE ELECTRICAL CONTRACTOR SHALL TEMPORARILY SUPPORT ALL ITEMS TO REMAIN THAT ARE AFFECTED BY THE DEMOLITION OF BUILDING STRUCTURAL COMPONENTS (WALLS, CEILINGS, ETC.). TEMPORARILY SUPPORTED ITEMS SHALL BE PERMANENTLY SUPPORTED AND INSTALLED WHEN FINALIZED STRUCTURES ARE IN PLACE.
- ALL REMOVED ITEMS SHALL BE LEGALLY DISPOSED OF UNLESS IDENTIFIED FOR REUSE. THE OWNER'S REPRESENTATIVE SHALL INSPECT ALL RETAINED ITEMS PRIOR TO PLACEMENT IN THE IDENTIFIED STORAGE LOCATION BY THE ELECTRICAL CONTRACTOR.
- THE EXISTING FIRE ALARM SYSTEM SHALL REMAIN FULLY FUNCTIONAL DURING THE ENTIRE DEMOLITION AND CONSTRUCTION PERIOD. REUSE OF EXISTING FIRE ALARM SYSTEM RACEWAYS SHALL NOT BE ALLOWED. ALL REQUIRED SYSTEM SHUTDOWNS SHALL BE COORDINATED WITH AND APPROVED BY THE OWNER'S REPRESENTATIVE AND THE AUTHORITY HAVING JURISDICTION. DEMOLITION OF THE EXISTING SYSTEM SHALL NOT COMMENCE UNTIL THE NEW SYSTEM HAS BEEN COMPLETELY INSTALLED, TESTED AND APPROVED BY
- ALL DEMOLITION SCOPE ASSOCIATED WITH LOW VOLTAGE SYSTEMS INCLUDING BUT NOT LIMITED TO TELEPHONE, DATA, SECURITY, PAGING, CCTV, ETC. SHALL BE INCLUDED IN THIS CONTRACT.

EXISTING EQUIPMENT DESIGNATIONS

- EXISTING TO BE REMOVED, REMOVE ALL ASSOCIATE CONDUIT AND CONDUCTORS
- EXISTING TO REMAIN
- EXISTING EQUIPMENT TO BE REPLACED WITH NEW, CONNECT NEW EQUIPMENT TO EXISTING CIRCUIT
- EXISTING EQUIPMENT TO BE RELOCATED, JUNCTION AND EXTEND EXISTING CONDUIT AND CONDUCTORS
- NEW EQUIPMENT TO BE CONNECTED TO NEAREST AVAILABLE BRANCH CIRCUIT, PROVIDE NEW BRANCH CIRCUITRY FROM NEAREST EXISTING DEVICE (TO REMAIN) TO NEW DEVICE AS REQUIRED
- NEW LOCATION OF EXISTING EQUIPMENT, JUNCTION AND EXTEND CONDUIT AND CONDUCTORS AS REQUIRED

FIRE ALARM

YPICAL DEVICE ANNOTATION: "15" INDICATES CANDELA RATING "XP" INDICATES EXPLOSION-PROOF "CR" INDICATES CORROSION-RESISTANT

F 15 AUDIO / VISUAL DEVICE "F" INDICATES HORN / VISUAL "S" INDICATES SPEAKER / VISUAL

L 15 VISUAL ONLY DEVICE "L" INDICATES WHITE LENS FOR FIRE "C" INDICATES AMBER LENS FOR CARBON MONOXIDE

CEILING MOUNTED AUDIO / VISUAL DEVICE "F" INDICATES HORN / VISUAL "S" INDICATES SPEAKER / VISUAL

CEILING MOUNTED VISUAL ONLY DEVICE MANUAL PULL STATION

SMOKE DETECTOR "D" INDICATES DUCT SMOKE DETECTOR "R" INDICATES ELEVATOR RECALL

HEAT DETECTOR, 135° RATE-OF-RISE TYPE "F" INDICATES 190° FIXED TEMPERATURE "C" INDICATES MOUNTED ABOVE HUNG CEILING

COMBINATION SMOKE / CARBON MONOXIDE DETECTOR "NS" INDICATES NON-SYSTEM DEVICE, 120V HARDWIRED WITH BATTERY BACKUP

"NS" INDICATES NON-SYSTEM DEVICE, 120V HARDWIRED WITH BATTERY BACKUP

FIRE PROTECTION SYSTEM INTERFACE DEVICE "FS" INDICATES FLOW SWITCH MONITOR MODULE "TS" INDICATES TAMPER SWITCH MONITOR MODULE "PS" INDICATES PRESSURE SWITCH MONITOR MODULE "PIV" INDICATES POST INDICATOR VALVE MONITOR MODULE

FIRE ALARM DEVICE

"FACP" INDICATES FIRE ALARM CONTROL PANEL "FABP" INDICATES FIRE ALARM BOOSTER PANEL "FATC" INDICATES FIRE ALARM TERMINAL CABINET

"AES" INDICATES AES MESH NETWORK COMMUNICATOR, COORDINATE TYPE WITH LOCAL FIRE DEPARTMENT "ANN" INDICATES FIRE ALARM ANNUNCIATOR PANEL "DACT" INDICATES DIGITAL ALARM COMMUNICATOR TRANSMITTER "CELL" INDICATES CELLULAR COMMUNICATOR

"RADIO" INDICATES RADIO COMMUNICATOR "CM" INDICATES CONTROL MODULE "MM" INDICATES MONITOR MODULE "DH" INDICATES MAGNETIC DOOR HOLDER "KB" INDICATES KEY BOX "RTS" INDICATES REMOTE TEST STATION

"BDA" INDICATES BI-DIRECTIONAL AMPLIFIER FIRE ALARM ANNUNCIATION DEVICE

"R" INDICATES REMOTE AREA LED INDICATOR

"B" INDICATES ALARM BELL, 120V HARDWIRED, EXTERIOR MOUNTED, WEATHERPROOF "F" INDICATES RED INDICATING BEACON, EXTERIOR MOUNTED, WEATHERPROOF

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HVAC * Electrical * Plumbing * Fire Protection

Client:

11

TOWN OF 10 CENTRAL ST MANCHESTER-BY-THE-SEA, MA 01944

Submission:

02/26/24

BID SET

Revision:

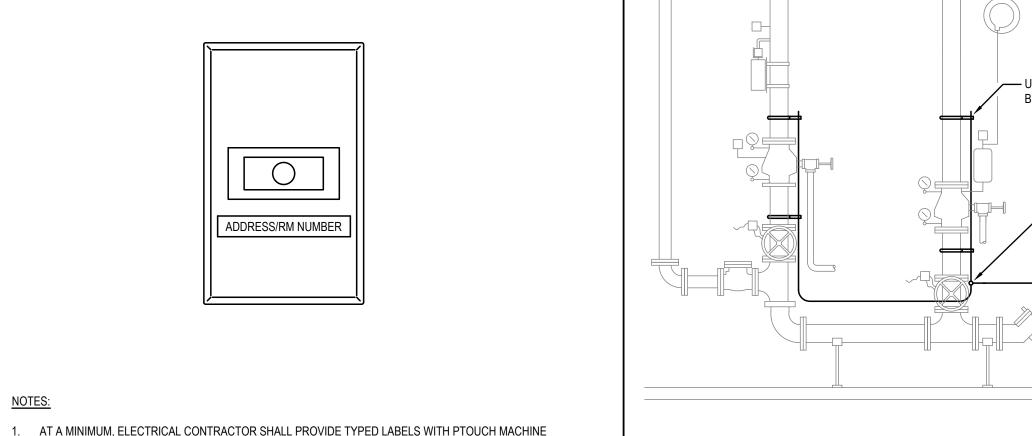
Project:

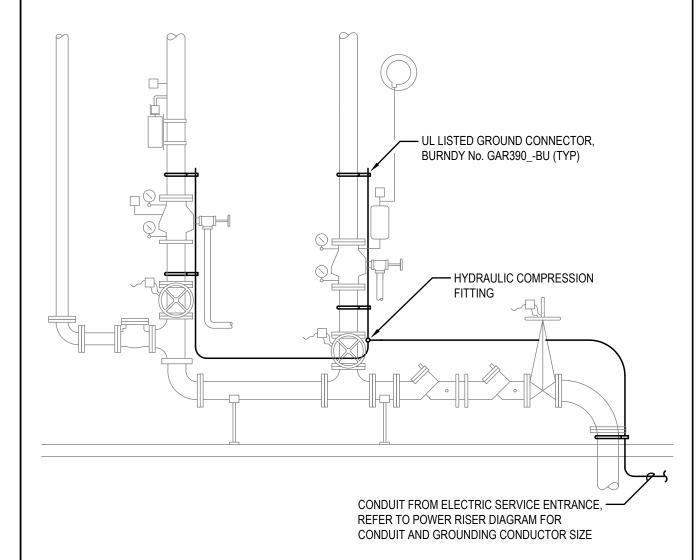
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Project No.: Drawn By: Checked By: As Noted

| Title: | FIRE ALARM LEGENDS, RISERS, NOTES

Drawing No.:





N.T.S. (3) FIRE PROTECTION SERVICE GROUNDING DETAIL



