# 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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MANCHESTER-BY-THE-SEA FIRE AND RESCUE DEPARTMENT

MANCHESTER-BY-THE-SEA, MA 0194

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ALARM PROJECT

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FIRE

Project No.: 23133

Drawn By: RG

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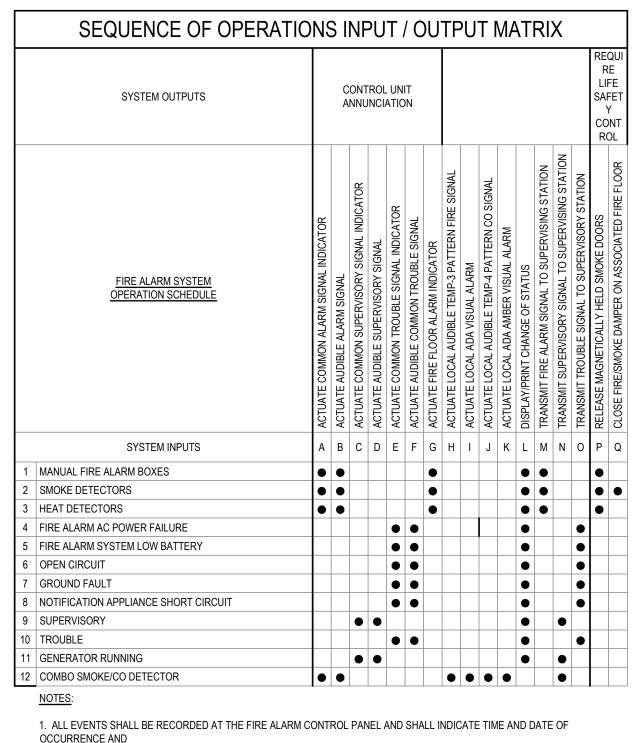
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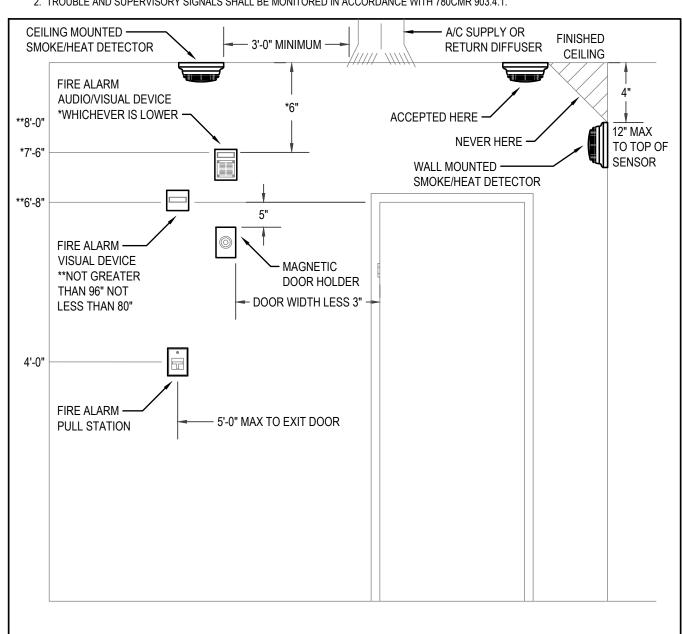
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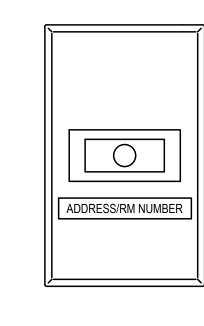


OCCURRENCE AND LIST DEVICE INITIATED.

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

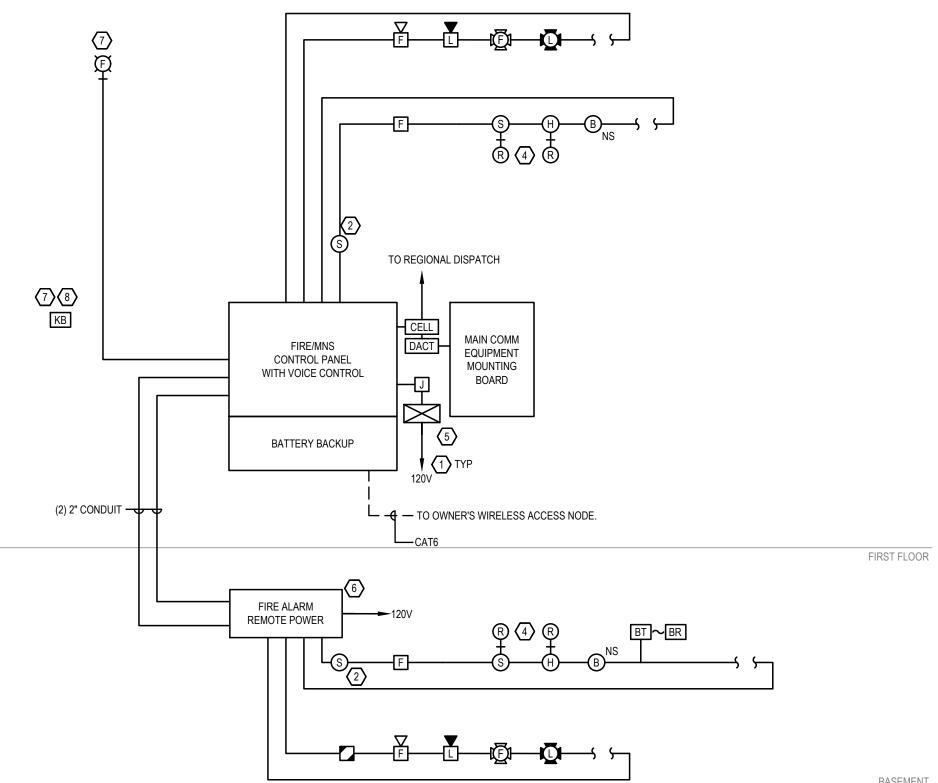


(1) DEVICE MOUNTING HEIGHT DETAIL



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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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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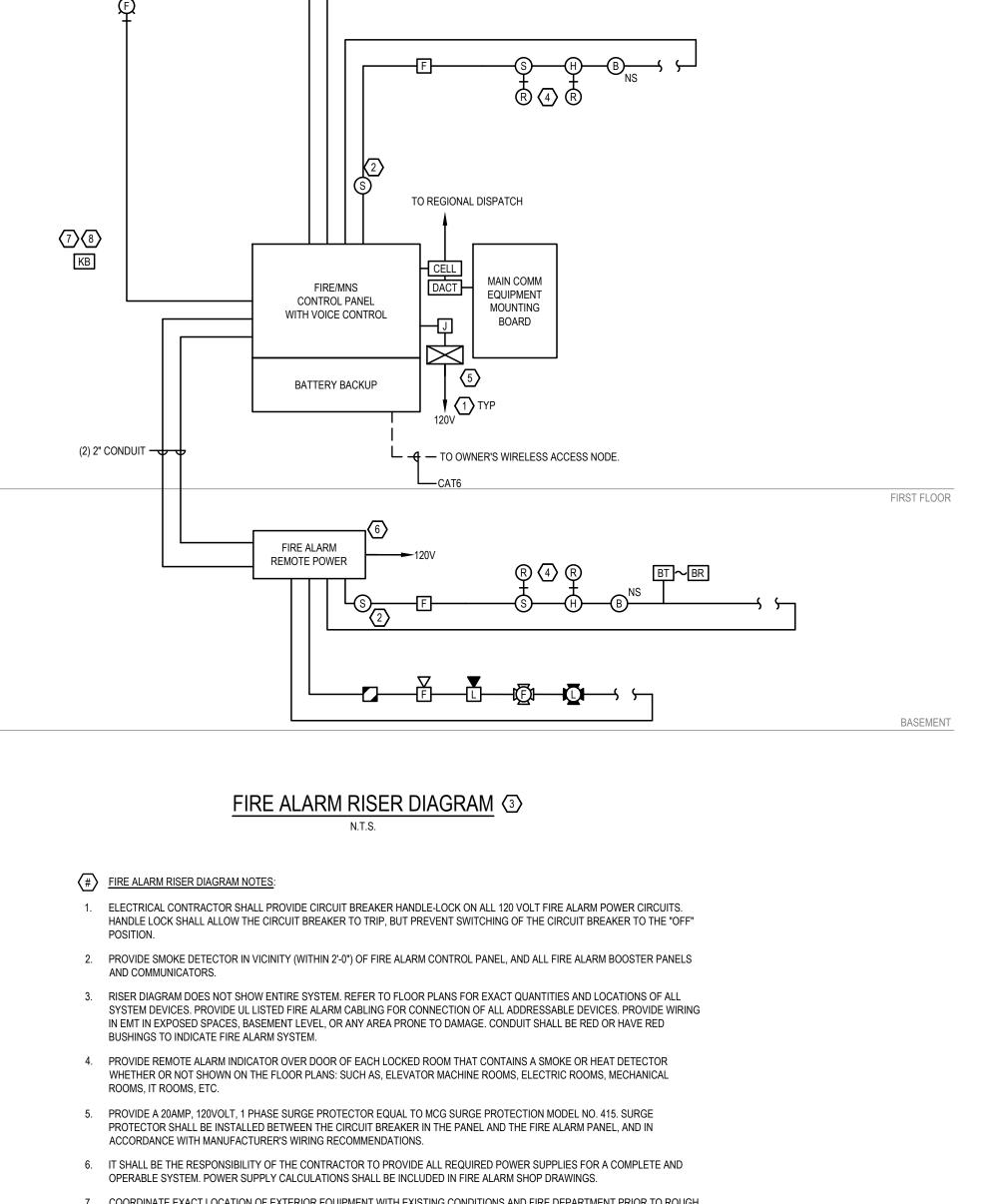
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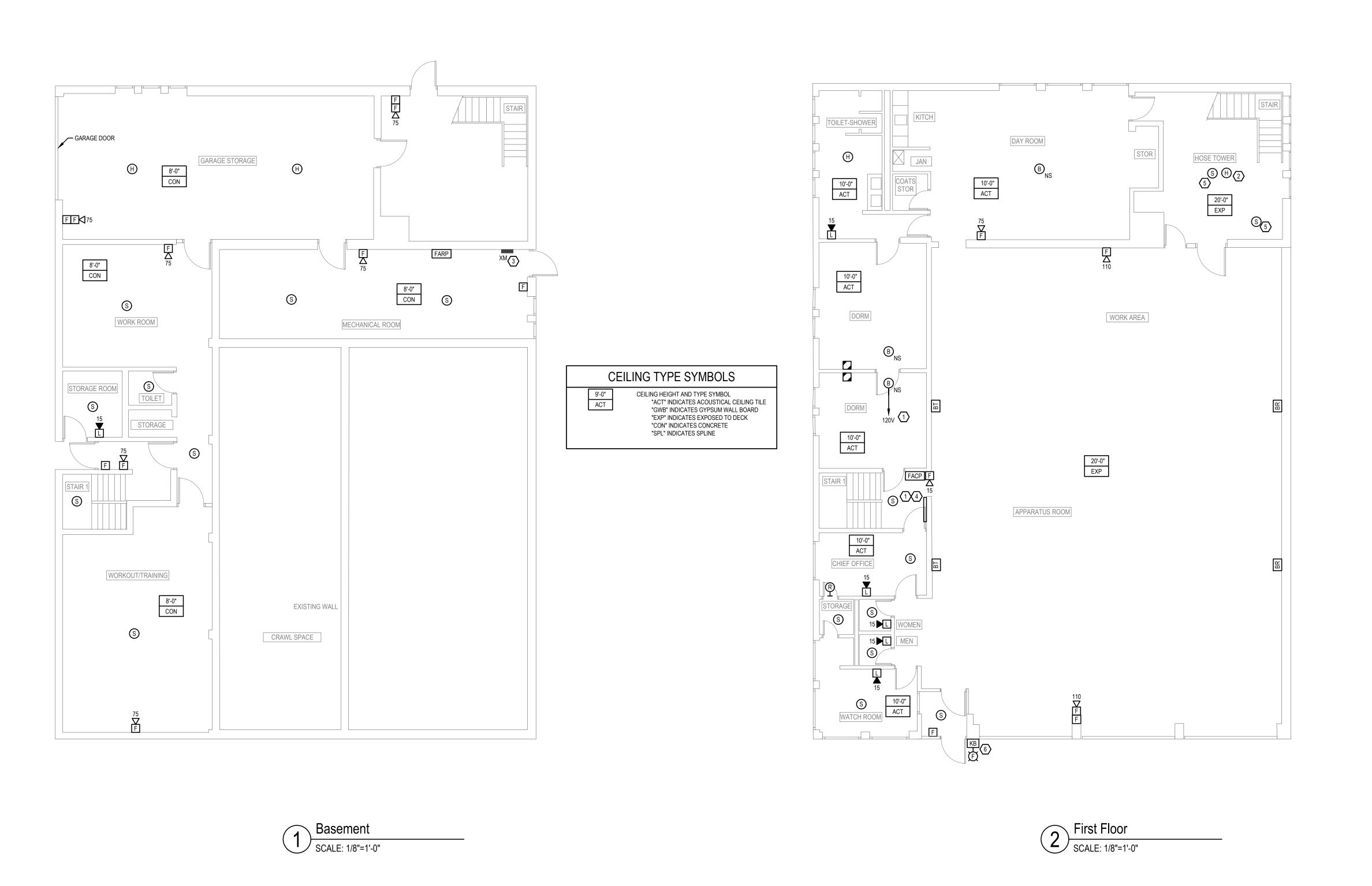
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Title: FIRE ALARM LEGENDS, RISERS, NOTES

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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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FIRE ALARM PROJECT

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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

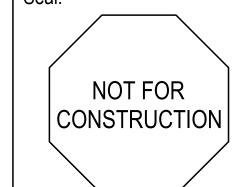


# **DRAWING INDEX:**

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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STEWATER TREATMENT PLA FIRE ALARM PROJECT

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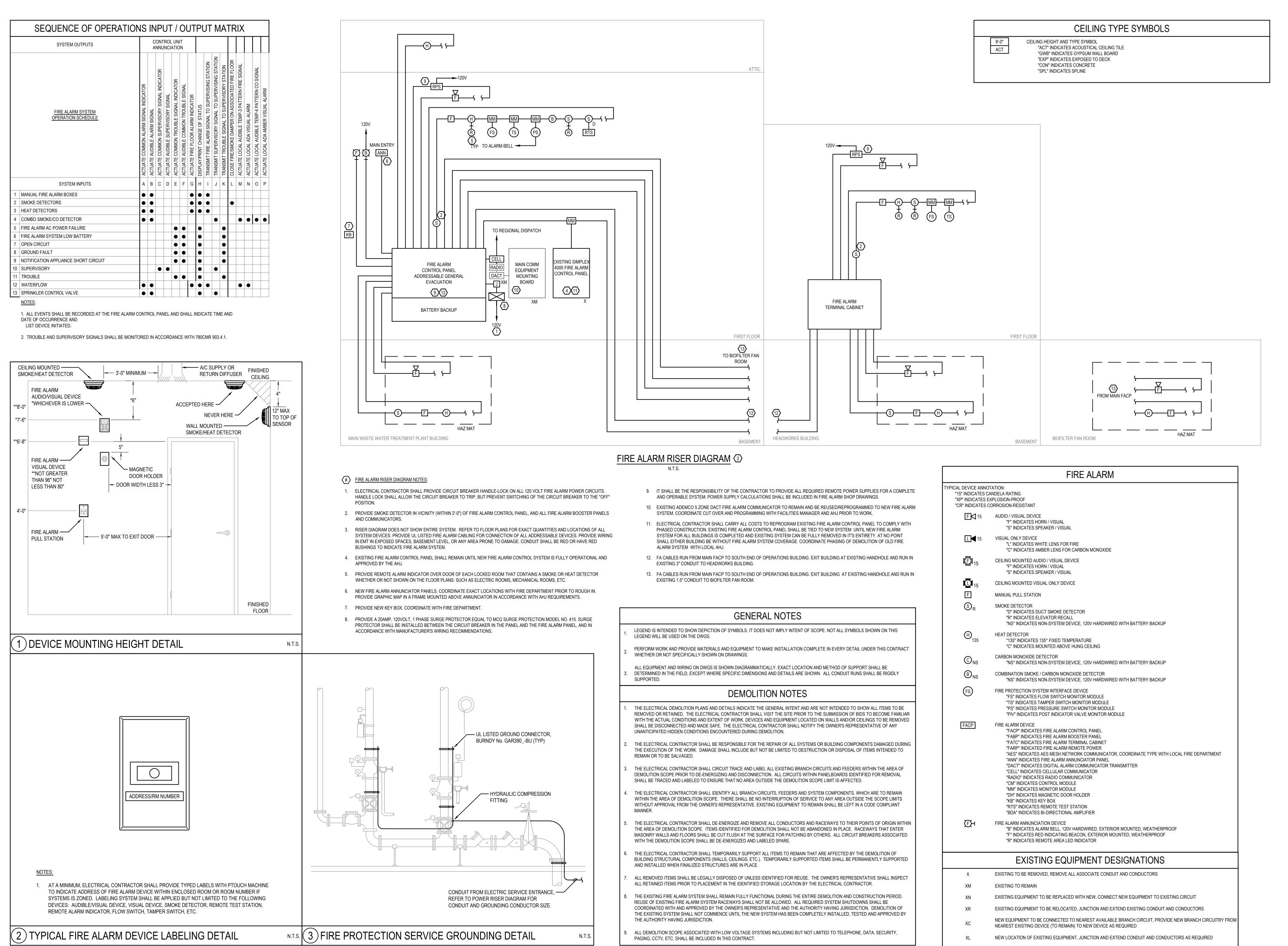
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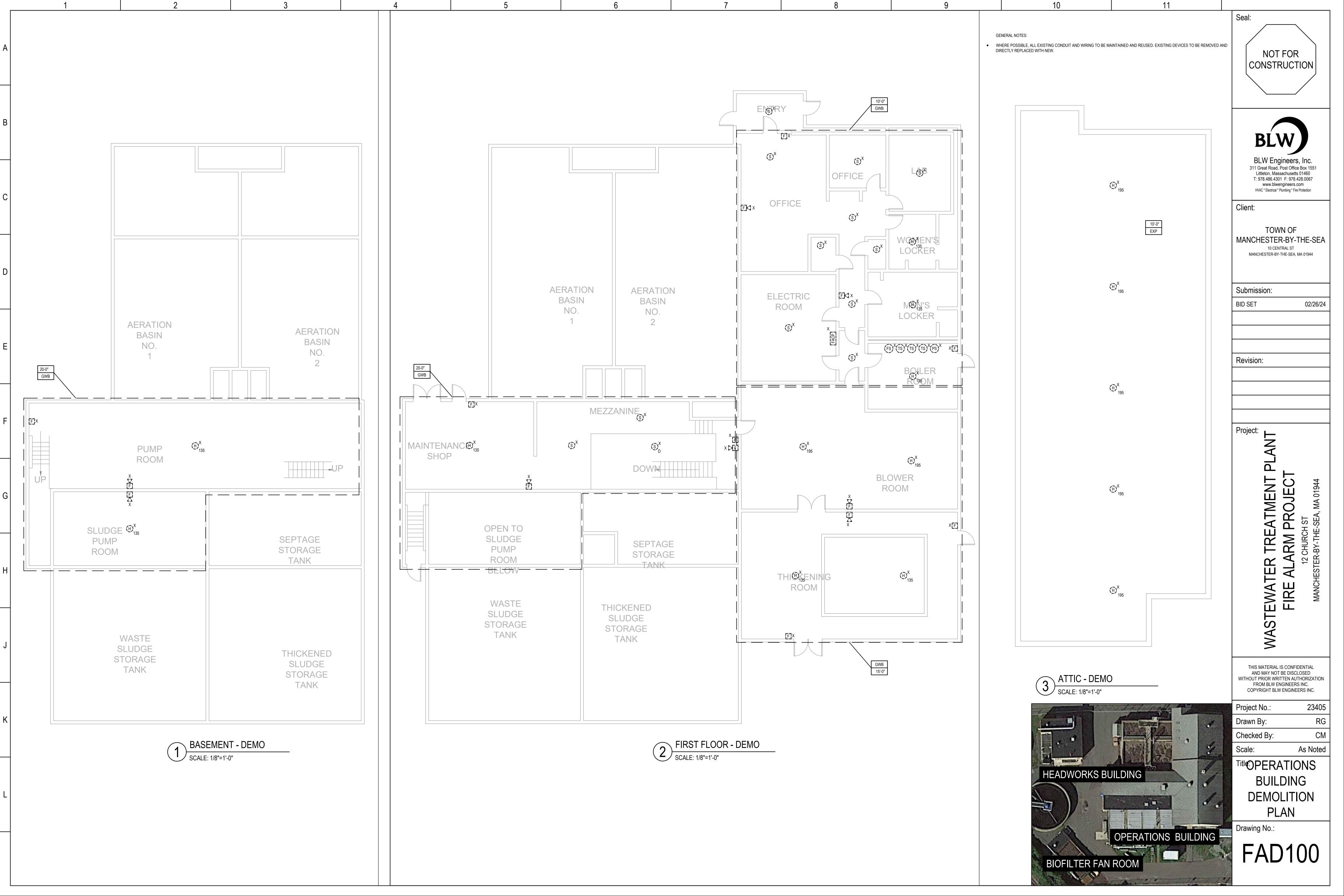
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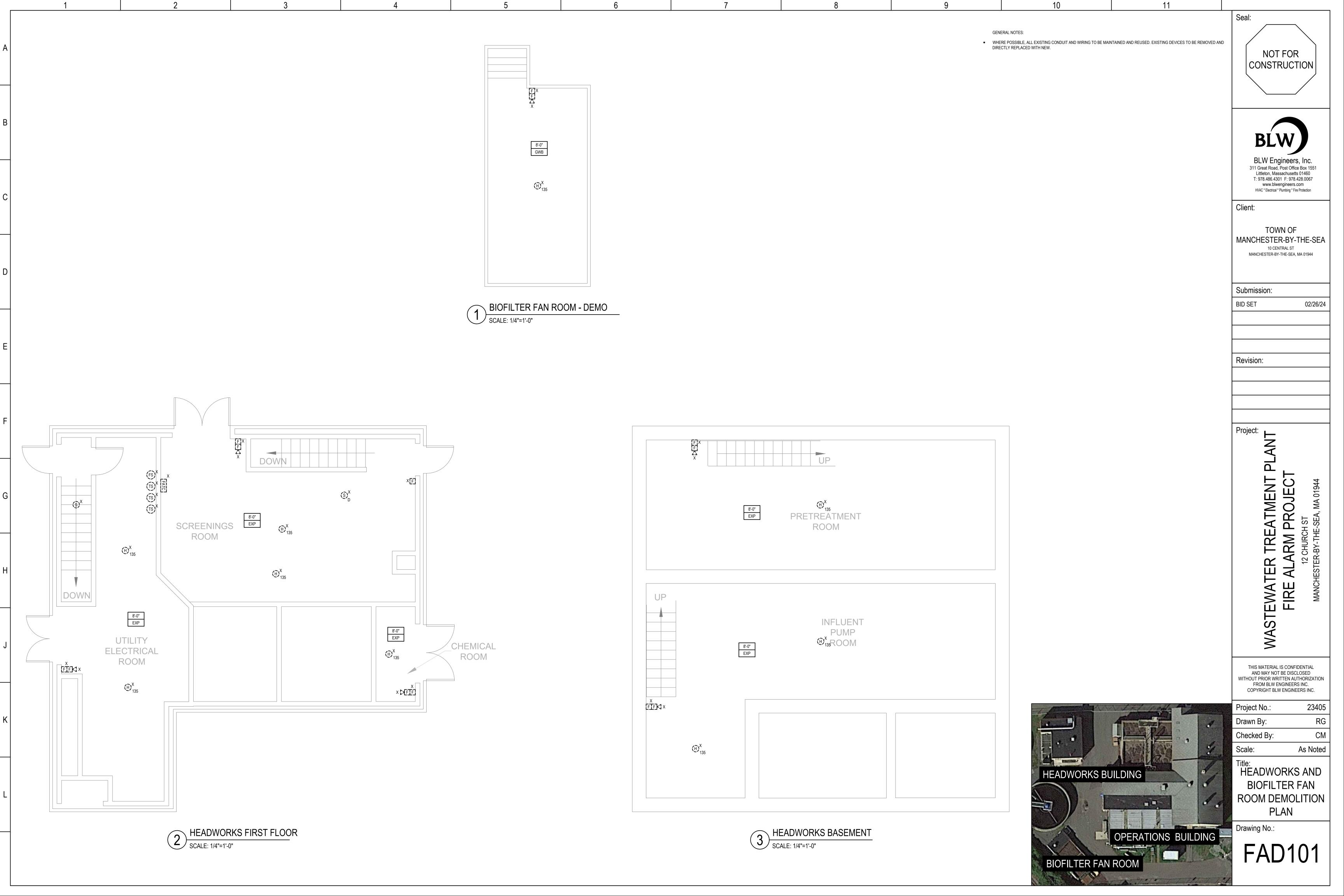
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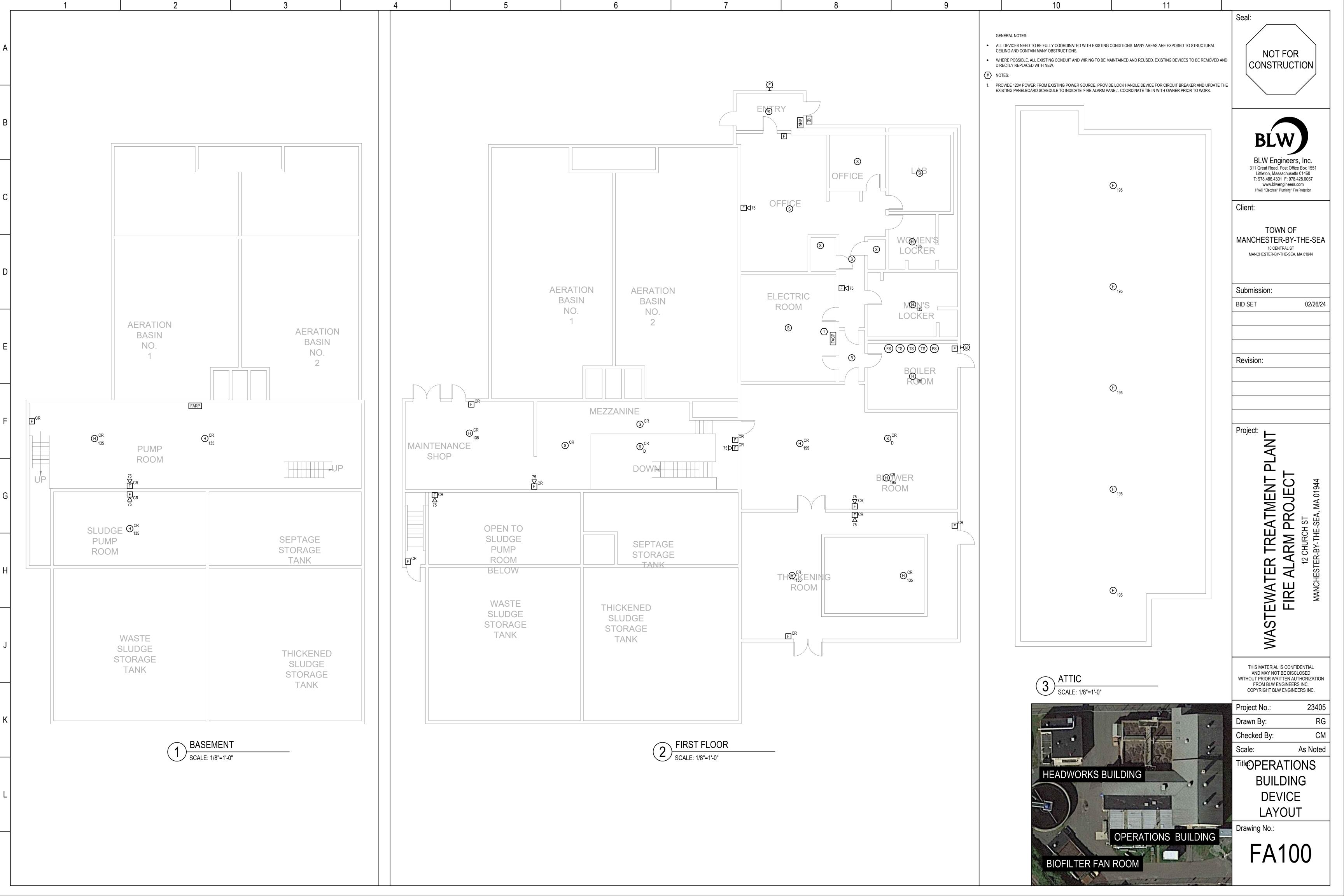
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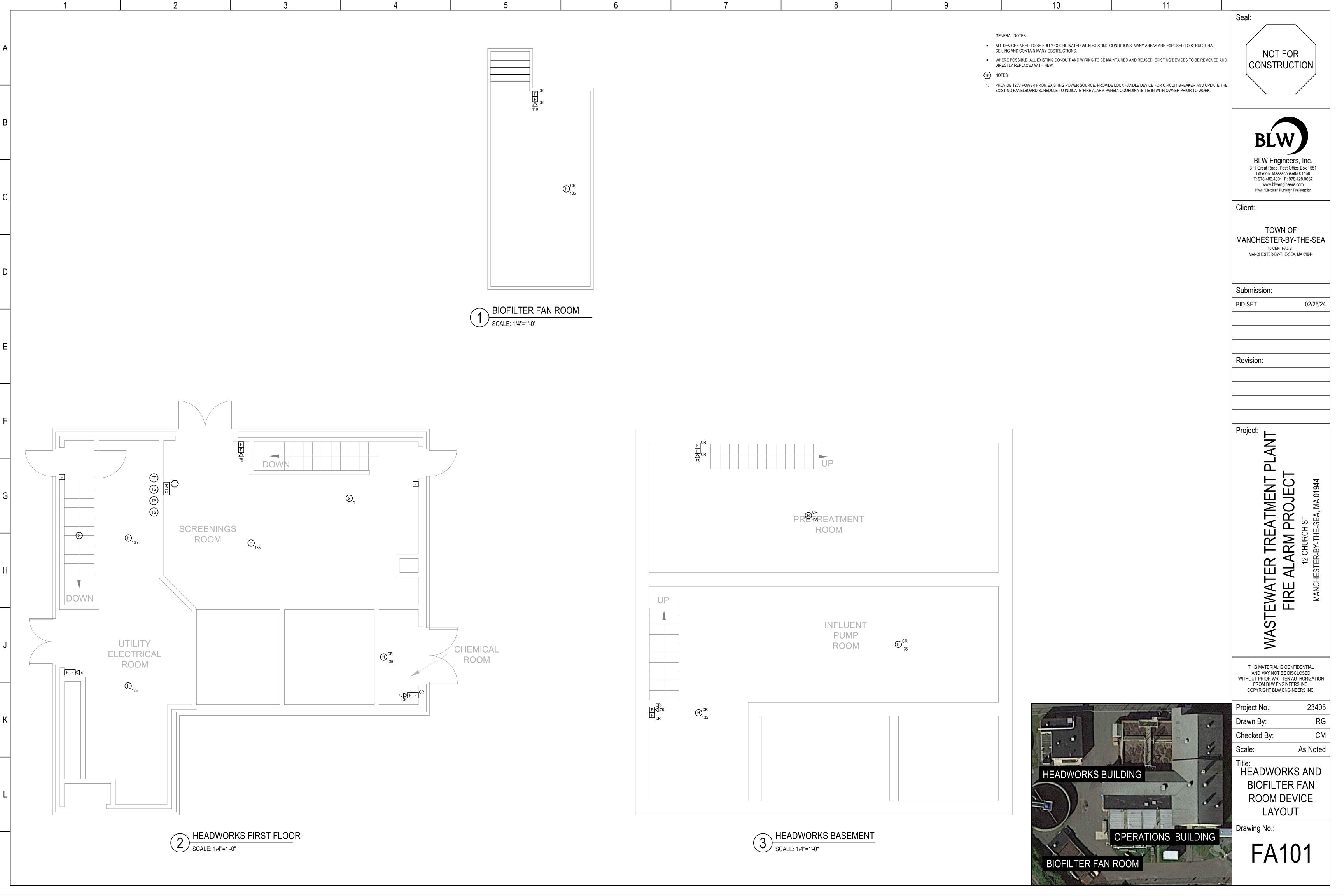
FIRE ALARM

Drawing No.:









# 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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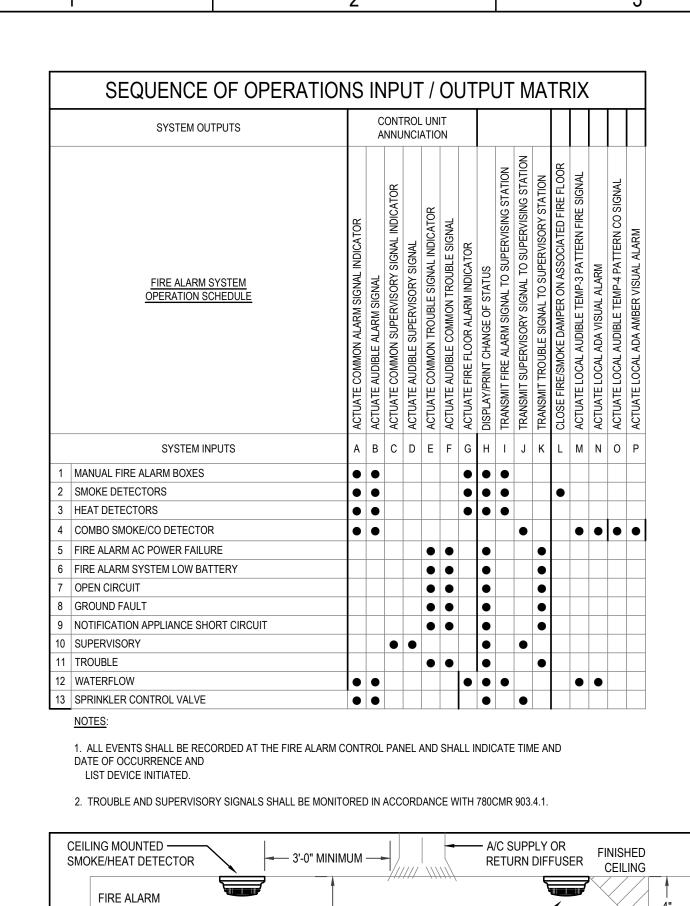
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— MAGNETIC

DOOR HOLDER

- DOOR WIDTH LESS 3" 👆

---- 5'-0" MAX TO EXIT DOOR

(1) DEVICE MOUNTING HEIGHT DETAIL

ACCEPTED HERE -

NEVER HERE -

WALL MOUNTED -

SMOKE/HEAT DETECTOR

- # 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.

FIRST FLOOR

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

# TO REGIONAL DISPATCH EXISTING SIMPLEX 1 MAIN COMM FIRE/MNS 4002 FIRE ALARM **EQUIPMENT** REMOTE CONTROL PANEL CONTROL PANEL 12 CONTROL PANEL MOUNTING WITH VOICE CONTROL BOARD BATTERY BACKUP BATTERY BACKUP TO OWNER'S WIRELESS ACCESS NODE RAW WATER PUMP BUILDING MAIN BUILDING

- 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
- 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
- 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
- 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
- ALL REMOVED ITEMS SHALL BE LEGALLY DISPOSED OF UNLESS IDENTIFIED FOR REUSE. THE OWNER'S REPRESENTATIVE SHALL INSPECT
- 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.

- NEW EQUIPMENT TO BE CONNECTED TO NEAREST AVAILABLE BRANCH CIRCUIT, PROVIDE NEW BRANCH CIRCUITRY FROM

### FIRE ALARM

L 15 VISUAL ONLY DEVICE "L" INDICATES WHITE LENS FOR FIRE

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

CEILING MOUNTED VISUAL ONLY DEVICE

SMOKE DETECTOR

"R" INDICATES ELEVATOR RECALL

"F" INDICATES 190° FIXED TEMPERATURE "C" INDICATES MOUNTED ABOVE HUNG CEILING

"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

"FATC" INDICATES FIRE ALARM TERMINAL CABINET "ANN" INDICATES FIRE ALARM ANNUNCIATOR PANEL

"CELL" INDICATES CELLULAR COMMUNICATOR "RADIO" INDICATES RADIO COMMUNICATOR "CM" INDICATES CONTROL MODULE "MM" INDICATES MONITOR MODULE

"RTS" INDICATES REMOTE TEST STATION "BDA" INDICATES BI-DIRECTIONAL AMPLIFIER

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

ADDRESS/RM NUMBER

AUDIO/VISUAL DEVICE

FIRE ALARM ----

VISUAL DEVICE

\*\*NOT GREATER

THAN 96" NOT

LESS THAN 80"

FIRE ALARM ——

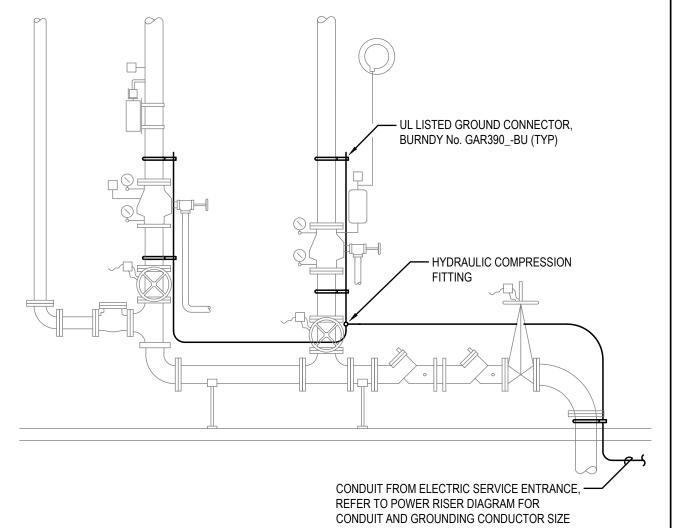
PULL STATION

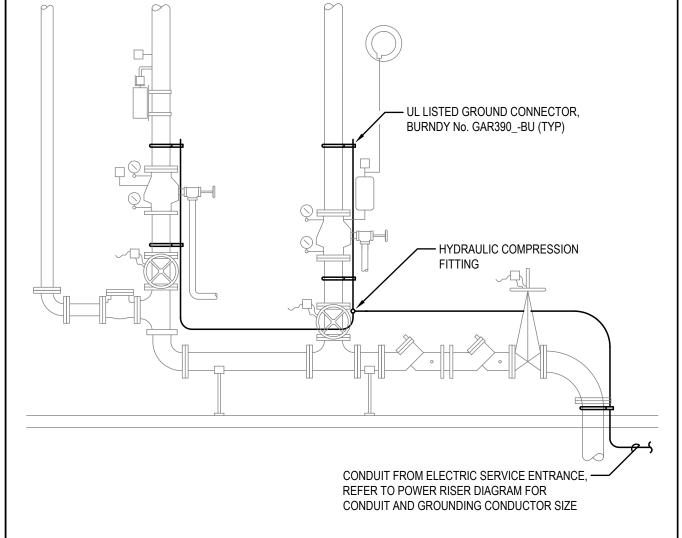
\*WHICHEVER IS LOWER -

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

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





11

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.

WITH THE DEMOLITION SCOPE SHALL BE DE-ENERGIZED AND LABELED SPARE.

AND INSTALLED WHEN FINALIZED STRUCTURES ARE IN PLACE.

ALL RETAINED ITEMS PRIOR TO PLACEMENT IN THE IDENTIFIED STORAGE LOCATION BY THE ELECTRICAL CONTRACTOR.

## **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

NEAREST EXISTING DEVICE (TO REMAIN) TO NEW DEVICE AS REQUIRED

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

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

> > "C" INDICATES AMBER LENS FOR CARBON MONOXIDE

MANUAL PULL STATION

"D" INDICATES DUCT SMOKE DETECTOR "NS" INDICATES NON-SYSTEM DEVICE, 120V HARDWIRED WITH BATTERY BACKUP

HEAT DETECTOR, 135° RATE-OF-RISE TYPE

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

FIRE PROTECTION SYSTEM INTERFACE DEVICE

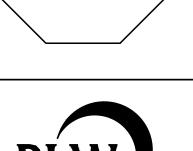
"FACP" INDICATES FIRE ALARM CONTROL PANEL "FABP" INDICATES FIRE ALARM BOOSTER PANEL

"AES" INDICATES AES MESH NETWORK COMMUNICATOR, COORDINATE TYPE WITH LOCAL FIRE DEPARTMENT "DACT" INDICATES DIGITAL ALARM COMMUNICATOR TRANSMITTER

"DH" INDICATES MAGNETIC DOOR HOLDER "KB" INDICATES KEY BOX

FIRE ALARM ANNUNCIATION DEVICE "R" INDICATES REMOTE AREA LED INDICATOR

NOT FOR CONSTRUCTION



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Revision:

Project:

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Project No.: Drawn By: Checked By:

As Noted

| Title: | FIRE ALARM LEGENDS, RISERS, NOTES

Drawing No.:



