FIRE ALARM WIRING CHART:

1. FIRE ALARM COMPONENTS SHALL BE IDENTIFIED AND LOCATED IN THE CONTRACT DOCUMENTS.
2. WIRING FOR FIRE ALARM SYSTEMS SHALL BE MARKED WITH FIRE ALARM MARKERS.
3. COMPLETE CIRCUIT DIAGRAMS SHALL BE PROVIDED FOR EACH FIRE ALARM SYSTEM.
4. ALL WIRE CONDUCTORS SHALL BE PROPERLY MARKED WITH WIRE MARKERS.
5. WIRE SIZE AND CONDUCTOR TYPE SHALL BE INDICATED ON THE CIRCUIT DIAGRAMS.
6. ALL WIRE AND CABLE SHALL BE INSULATED AND PROPERLY CONDUCTED.
7. WIRING FOR FIRE ALARM SYSTEMS SHALL BE PROTECTED FROM MECHANICAL DAMAGE.
8. ALL WIRE AND CABLE SHALL BE PROPERLY SIZED AND ARRANGED.
9. WIRE CONDUIT SHALL BE PROPERLY INSTALLED.
10. ALL WIRE AND CABLE SHALL BE SECURED IN PLACE.
11. WIRING FOR FIRE ALARM SYSTEMS SHALL BE PROPERLY GROUNDED.
12. ALARMS AND DETECTORS SHALL BE PROPERLY CONNECTED.
13. WIRING FOR FIRE ALARM SYSTEMS SHALL BE PROPERLY SEPARATED FROM OTHER SYSTEMS.
14. WIRING FOR FIRE ALARM SYSTEMS SHALL BE PROPERLY MARKED.
15. ALL WIRE AND CABLE SHALL BE PROPERLY PROTECTED.
16. WIRING FOR FIRE ALARM SYSTEMS SHALL BE PROPERLY/screened.
17. ALL WIRE AND CABLE SHALL BE PROPERLY SPLICED.
18. WIRING FOR FIRE ALARM SYSTEMS SHALL BE PROPERLY CONNECTED.
19. WIRING FOR FIRE ALARM SYSTEMS SHALL BE PROPERLY GROUNDED.
20. WIRING FOR FIRE ALARM SYSTEMS SHALL BE PROPERLY SEPARATED FROM OTHER SYSTEMS.
21. WIRING FOR FIRE ALARM SYSTEMS SHALL BE PROPERLY MARKED.
22. WIRING FOR FIRE ALARM SYSTEMS SHALL BE PROPERLY PROTECTED.
23. WIRING FOR FIRE ALARM SYSTEMS SHALL BE PROPERLY SPLICED.
24. WIRING FOR FIRE ALARM SYSTEMS SHALL BE PROPERLY CONNECTED.
25. WIRING FOR FIRE ALARM SYSTEMS SHALL BE PROPERLY GROUNDED.
26. WIRING FOR FIRE ALARM SYSTEMS SHALL BE PROPERLY SEPARATED FROM OTHER SYSTEMS.
27. WIRING FOR FIRE ALARM SYSTEMS SHALL BE PROPERLY MARKED.
28. WIRING FOR FIRE ALARM SYSTEMS SHALL BE PROPERLY PROTECTED.
29. WIRING FOR FIRE ALARM SYSTEMS SHALL BE PROPERLY SPLICED.
30. WIRING FOR FIRE ALARM SYSTEMS SHALL BE PROPERLY CONNECTED.

FIRE ALARM WIRING CHART:

1. FIRE ALARM SYSTEMS SHALL BE PROPERLY INSTALLED.
2. WIRING FOR FIRE ALARM SYSTEMS SHALL BE PROPERLY SIZED.
3. WIRING FOR FIRE ALARM SYSTEMS SHALL BE PROPERLY ARRANGED.
4. WIRING FOR FIRE ALARM SYSTEMS SHALL BE PROPERLY CONNECTED.
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34. WIRING FOR FIRE ALARM SYSTEMS SHALL BE PROPERLY CONNECTED.
GENERAL NOTES:

1. REFER TO SHEETS PAST FOR GENERAL NOTES, FIRE ALARM NOTES, SYMBOLS AND ABBREVIATIONS.
2. UNLESS NOTED OTHERWISE, ALL WORK SHOWN SHALL BE PERFORMED BY THE CONTRACTOR.
3. FIRE ALARM NOTIFICATION DEVICES LOCATED WITHIN OFFICE OR SHELTERED SPACES ON EACH LEVEL, SHALL BE INSTALLED WITH THE BOTTOM OF THE STROBE LENS LOCATED AT 84 INCHES ABOVE THE FINISHED FLOOR.
4. FIRE ALARM NOTIFICATION DEVICES LOCATED WITHIN THE WAREHOUSE SPACE, SHALL BE INSTALLED WITH THE TOP OF THE STROBE LENS LOCATED AT 90 INCHES ABOVE THE FINISHED FLOOR.
5. NUMBERS CONTAINED IN PARENTHESES ARE GUIDES TO FIRE ALARM NOTIFICATION DEVICES. SHOP DRAWINGS SHOW ACTUAL CIRCUITING AND DEVICE GROUPING.

1/8" = 1'
GENERAL NOTES:
1. REFER TO SHEETS ELSEWHERE FOR GENERAL NOTES. FIRE ALARM NOTED, SYMBOLS AND ABBREVIATIONS.
2. UNLESS NOTED OTHERWISE, ALL WORK BOUNDED BY THE OUTLINE OF THE CONSTRUCTION.
3. FIRE ALARM NOTIFICATION DEVICES LOCATED WITHIN THE WAREHOUSE SPACE, SHALL BE INSTALLED 5 FEET ABOVE THE FINISHED FLOOR. DETECTOR INSTALLED 5 FEET ABOVE THE FINISHED FLOOR. DEVICE CIRCUITING FROM THE FIRE ALARM BOOSTER POWER SUPPLY PANEL. SHOP DRAWINGS WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON PROJECT. THEY ARE NOT INTENDED OR REPRESENTED FOR THE SPECIFIC PURPOSE INTENDED. PENNONI ASSOCIATES FROM ALL CLAIMS, DAMAGES, OR LEGAL EXPOSURE TO PENNONI ASSOCIATES FOR THE SPECIFIC PURPOSE INTENDED. OWNER SHALL INDEMNIFY AND HOLD HARMLESS PENNONI ASSOCIATES FOR THE SPECIFIC PURPOSE INTENDED.
4. REFER TO SHEETS FA001 FOR GENERAL NOTES, FIRE ALARM NOTIFICATION DEVICES LOCATED WITHIN THE WAREHOUSE SPACE, SHALL BE INSTALLED 5 FEET ABOVE THE FINISHED FLOOR. DEVICE CIRCUITING FROM THE FIRE ALARM BOOSTER POWER SUPPLY PANEL. SHOP DRAWINGS WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON PROJECT. ANY REUSE WITHOUT WRITTEN APPROVAL BY PENNONI ASSOCIATES WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON PROJECT. THEY ARE NOT INTENDED OR REPRESENTED FOR THE SPECIFIC PURPOSE INTENDED. PENNONI ASSOCIATES FROM ALL CLAIMS, DAMAGES, OR LEGAL EXPOSURE TO PENNONI ASSOCIATES FOR THE SPECIFIC PURPOSE INTENDED. OWNER SHALL INDEMNIFY AND HOLD HARMLESS PENNONI ASSOCIATES FOR THE SPECIFIC PURPOSE INTENDED.
5. REFER TO SHEETS ELSEWHERE FOR GENERAL NOTES. FIRE ALARM NOTED, SYMBOLS AND ABBREVIATIONS.

KEYED NOTES:
- FIRE ALARM DETECTOR POWER SUPPLY PANEL.
- FIRE ALARM NOTIFICATION DEVICES LOCATED WITHIN THE WAREHOUSE SPACE, SHALL BE INSTALLED 5 FEET ABOVE THE FINISHED FLOOR. DEVICE CIRCUITING FROM THE FIRE ALARM BOOSTER POWER SUPPLY PANEL. SHOP DRAWINGS WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON PROJECT. THEY ARE NOT INTENDED OR REPRESENTED FOR THE SPECIFIC PURPOSE INTENDED. PENNONI ASSOCIATES FROM ALL CLAIMS, DAMAGES, OR LEGAL EXPOSURE TO PENNONI ASSOCIATES FOR THE SPECIFIC PURPOSE INTENDED. OWNER SHALL INDEMNIFY AND HOLD HARMLESS PENNONI ASSOCIATES FOR THE SPECIFIC PURPOSE INTENDED.
- REFER TO SHEETS ELSEWHERE FOR GENERAL NOTES. FIRE ALARM NOTED, SYMBOLS AND ABBREVIATIONS.

KEY PLAN

FA214 ELEVATION VIEW D3
FA214 ELEVATION VIEW D2
FA214 ELEVATION VIEW D1
FA214 ELEVATION VIEW D2

DATE: 01/03/2020
ISSUED FOR CONSTRUCTION
GENERAL NOTES:

1. REFER TO SHEETS FA001 FOR GENERAL NOTES, FIRE ALARM NOTICES, SYMBOLS AND ABBREVIATIONS.

2. UNLESS NOTED OTHERWISE, ALL WORK SHOWN SHALL BE PERFORMED BY THE CONTRACTOR.

3. FIRE ALARM NOTIFICATION DEVICES LOCATED WITHIN OFFICE OR SHELTERED SPACES ON EACH LEVEL, SHALL BE INSTALLED WITH THE BOTTOM OF THE STROBE LENS LOCATED AT 84 INCHES ABOVE THE FINISHED FLOOR.

4. FIRE ALARM NOTIFICATION DEVICES LOCATED WITHIN THE WAREHOUSE SPACE, SHALL BE INSTALLED WITH THE TOP OF THE STROBE LENS LOCATED AT 90 INCHES ABOVE THE FINISHED FLOOR.

5. NUMBERS CONTAINED IN PARENTHESES ( ) ARE INDICATED AS A GUIDE TO FIRE ALARM NOTIFICATION DEVICE CIRCUITING FROM THE FIRE ALARM BOOSTER POWER SUPPLY PANEL. SHOP DRAWINGS SHALL SHOW ACTUAL CIRCUITING AND DEVICE GROUPING.
**GENERAL NOTES:**

1. REFER TO SHEETS 001 FOR GENERAL NOTES, FIRE ALARM NOTICES, SYMBOLS AND ABBREVIATIONS.

2. UNLESS NOTED OTHERWISE, ALL WORK SHOWN SHALL BE PROVIDED BY THE CONTRACTOR.

3. FIRE ALARM NOTIFICATION DEVICES LOCATED WITHIN OFFICE OR SHELTERED SPACES ON EACH LEVEL, SHALL BE INSTALLED WITH THE BOTTOM OF THE STROBE LENS LOCATED AT 84 INCHES ABOVE THE FINISHED FLOOR.

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**KEYED NOTES:**

- ADDRESSABLE INPUT MODULES SHALL BE COORDINATED WITH THE FIRE PROTECTION CONTRACTOR FOR FINAL LOCATIONS AND DEVICE INTERCONNECTIONS.

- POINTS TO BE MONITORED:
  - PUMP RUN - SUPERVISORY
  - PUMP LOW FUEL - SUPERVISORY
  - PUMP FAIL TO START - SUPERVISORY

- REFER TO SHEET FA502 FOR DIESEL PUMP BUILDING ENLARGED DRAWING.

**GENERAL NOTES:**

1. REFER TO SHEETS 001 FOR GENERAL NOTES, FIRE ALARM NOTICES, SYMBOLS AND ABBREVIATIONS.

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- REFER TO SHEET FA502 FOR DIESEL PUMP BUILDING ENLARGED DRAWING.
GENERAL NOTES:

1. REFER TO SHEETS FAST FOR GENERAL NOTES, FIRE ALARM NOTED, SYMBOLS AND ABBREVIATIONS.

2. UNLESS NOTED OTHERWISE, ALL WORK BOWEN SHALL BE PROVIDED BY THE CONTRACTOR.

3. IMPROVED SHEETS PROVIDED FOR WORKMANSHIP RouteServiceProvider.

4. REFER TO FLOOR PLAN SHEETS FOR COORDINATION OF SUPERVISORY POINTS OF THE FIRE PUMP CONSISTING OF:

5. REFER TO DRAWING SHEET FOR BUILDING SUBSTATION EQUIPMENT AND LOCATION.

6. FIRE ALARM NOTIFICATION DEVICES LOADED WITHIN THE WAREHOUSE SPACE SHALL BE INSTALLED ON THE TOP OF THE STRUCTURE AT 90 INCHES ABOVE THE FINISHED FLOOR.

7. NUMBERS CONTAINED IN PARENTHESES ( ) ARE INDICATED AS A GUIDE TO FIRE ALARM NOTIFICATION DEVICE CIRCUITING FROM THE FIRE ALARM BOOSTER POWER SUPPLY PANEL. SHOP DRAWINGS SHALL SHOW ACTUAL CIRCUITING AND DEVICE GROUPING.

KEYED NOTES:

1. REFER TO DRAWING SHEET FOR COORDINATION OF DESIGNATED SUPERVISORY POINTS FOR THE FIRE PUMP CONSISTING OF:

2. REFER TO DRAWING SHEET FOR COORDINATION OF DESIGNATED SUPERVISORY POINTS FOR THE WATER FLOW AND VALVE TAMPER SWITCHES FOR THE FIRE PUMP.

3. FIRE ALARM SYSTEM ADDRESSABLE INPUT MODULIR SHALL BE COORDINATED WITH THE FIRE PROTECTION CONTRACTOR FOR FINAL LOCATIONS AND DEVICE INTERCONNECTIONS.

4. REFER TO DRAWING SHEET FOR COORDINATION OF DESIGNATED SUPERVISORY POINTS FOR THE FIRE PUMP.

5. REFER TO DRAWING SHEET FOR COORDINATION OF DESIGNATED SUPERVISORY POINTS FOR THE FIRE PUMP.
FA RISER DIAGRAM

1. ACTIVATION OF ANY SYSTEM MANUAL PULL STATION OR MASTER BOX PULL STATION
2. ACTIVATION OF ANY SYSTEM SMOKE DETECTOR
3. ACTIVATION OF ANY FIRE PROTECTION WATER FLOW DEVICE
4. ANY SYSTEM SUPERVISORY SIGNAL NOT MENTIONED IN DETAIL
5. ACTIVATION OF ANY FIRE PROTECTION VALVE TAMPER OR LOW AIR
6. FIRE ALARM SYSTEM LOW BATTERY OR ASSOCIATED BATTERY TROUBLE
7. REMOVAL OF A DEVICE OR RELATED DEVICE COMMUNICATIONS TROUBLE
8. SHORT CIRCUIT (ON ANY TYPE OF CIRCUIT)
9. SUPERVISORY DEVICE ACTIVATION

DEVICE ACTIVATION

- ACTIVATION OF ANY SYSTEM MONITOR DETECTOR
- ACTIVATION OF ANY SYSTEM HEAT DETECTOR
- ACTIVATION OF ANY FIRE PROTECTION WATER FLOW DEVICE
- FIRE ALARM AC POWER FAILURE OR OTHER RELATED TROUBLE
- FIRE ALARM SYSTEM LOW BATTERY OR ASSOCIATED BATTERY TROUBLE
- OPEN CIRCUIT (ON ANY TYPE OF CIRCUIT)
- GROUND FAULT ON ANY TYPE OF CIRCUIT
- SHORT CIRCUIT ON ANY TYPE OF CIRCUIT
- ANY SYSTEM PROBLEM SIGNAL NOT MENTIONED IN DETAIL
- REMOVAL OF A DEVICE OR RELATED DEVICE COMMUNICATIONS TROUBLE
- ACTIVATION OF ANY FIRE PROTECTION VALVE TAMPER OR LOW AIR SUPPRESSOR DEVICE
- ANY DESTROYED FIRE PUMP OPERATIONS SUPERVISORY DEVICE
- ANY SYSTEM SUPERVISORY SIGNAL NOT MENTIONED IN DETAIL

FIRE ALARM SEQUENCE OF OPERATION (INPUT/OUTPUT MATRIX)

GENERAL NOTES:
1. FIRE ALARM SYSTEM IS SHOWN AS DIAGRAMATICAL.
2. CONTRACTOR SHALL PROVIDE ACTUAL RISER DIAGRAM AS PART OF THE DOCUMENT CLOSE OUT PORTION OF THIS PROJECT.
3. FIRE ALARM CONTROL PANEL(BPS) SHALL BE POWERED BY A 120 VAC Power Supply Circuit.
4. FIRE ALARM SUPPRESSOR POWER SUPPLY (BPS) SHALL BE POWERED BY A DESIGNATED 120V Circuit.
5. CONTRACT OR ELECTRICAL CONTRACTOR AND PENNONI ASSOCIATES SHALL PROVIDE CIRCUIT IDENTIFICATION FOR THE FIRE ALARM CONTROL PANEL AND EACH OF THE FIRE ALARM SUPPRESSOR POWER SUPPLY PANEL.
6. FIRE ALARM INITIATION AND NOTIFICATION FIELD DEVICES SHOWN AS REPRESENTATIVE.
7. EACH FIRE ALARM SUPPRESSOR POWER SUPPLY CONTAINS A B THROUGH NOTIFICATION OR AUXILIARY POWER CIRCUIT, FIELD CONFIGURATION AS NECESSARY.
8. FIRE ALARM SUPPRESSOR FIELD DEVICES ARE SHOWN AS REPRESENTATIVE.

CONSTRUCTION OF PHILAPORT DISTRIBUTION CENTER NEW DRY WAREHOUSE 3401 SOUTH LAWRENCE STREET

PHILADELPHIA REGIONAL PORT AUTHORITY
3460 NORTH DELAWARE AVENUE
PHILADELPHIA, PA 19134

FIRE ALARM RISER DIAGRAM

DATE NO. REVISIONS BY
MANUAL PULL STATION MOUNTING AND WIRING

TYPICAL

HORN / STROBE WIRING

TYPICAL

MANUAL PULL STATION BUBBLE COVER

TYPICAL

ADDRESSABLE OUTPUT MODULE (AOM) - TYPICAL

ADDRESSABLE DETECTOR MOUNTING - TYPICAL

1. TYPICAL MOUNTING HEIGHTS

2. HORN / STROBE - TYPICAL

3. HORN / STROBE WIRING - TYPICAL

4. ADDRESSABLE DETECTOR MOUNTING - TYPICAL

5. MANUAL PULL STATION MOUNTING AND WIRING - TYPICAL

6. MANUAL PULL STATION BUBBLE COVER

7. ADDRESSABLE OUTPUT MODULE (AOM) - TYPICAL

- Fire Alarm Notification Appliances are sized per individual nameplate.
- Circuit Loading: Maximum of 35 synchronized strobes per NAC circuit.
- Flash Rate: 1Hz
- Suppression Mode NAC Loading: Maximum of 35 synchronized strobes per NAC circuit.
- Each NAC circuit is limited.
- See installation instructions for additional information.

NOTES:
- Address switch is accessible with the unit strobe removed.
- It is recommended that the strobe address be set before the unit to the housing slots and snap into.
- There are two holes for electrical box mounting. Secure the electrical box (not supplied), semi-flush or surface mounted.
- The speaker strobe unit attaches directly to a 4" square x 2 1/8" deep box, which requires an adapter (box to be flush or recessed 1/4" maximum).
- The speaker strobe unit attaches directly to a standard 4" square box.
- Strobe intensity settings are accessible from rear.
- Accessible from rear.
- Horn assembly - accessible from rear.

MOUNTING INSTRUCTIONS:
- 1. Mounting in instructed.
- 2. Place in instructed.
- 3. Synchro

MOUNTING NOTES:
- 1. The speaker strobe unit attaches directly to a 4" square x 2 1/8" deep box, which requires an adapter (box to be flush or recessed 1/4" maximum).
- 2. There are two holes for electrical box mounting. Secure the electrical box (not supplied), semi-flush or surface mounted.
- 3. It is recommended that the strobe address be set before the unit is shipped to the field.
- 4. Address switch is accessible with the unit strobe removed.

- Fire Alarm Notification Appliances are sized per individual nameplate.
- Circuit Loading: Maximum of 35 synchronized strobes per NAC circuit.
- Flash Rate: 1Hz
- Suppression Mode NAC Loading: Maximum of 35 synchronized strobes per NAC circuit.
- Each NAC circuit is limited.
- See installation instructions for additional information.
## FIRE ALARM SYSTEM MODULE DEVICE SCHEDULE

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<th>Device Type</th>
<th>Device Action Type</th>
<th>Location</th>
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## FIRE ALARM SYSTEM PANEL SCHEDULE

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## FIRE ALARM SYSTEM INITIATION DEVICE SCHEDULE

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## FIRE ALARM SYSTEM NOTIFICATION DEVICE SCHEDULE

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APPROVED BY

ASSOCIATES FOR THE SPECIFIC PURPOSE INTENDED

PENNOMI ASSOCIATES FROM ALL CLAIMS, DAMAGES, OR LEGAL EXPOSURE TO PENNONI ASSOCIATE; AND

3401 SOUTH LAWRENCE STREET

PHILADELPHIA, PA 19134

DATE NO. REVISIONS BY

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FA901