**Tags & Symbols**

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**Material Cut Patterns**

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<tr>
<td>Glass</td>
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<tr>
<td>Insulation</td>
<td></td>
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<tr>
<td>Masonry Block</td>
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<tr>
<td>Masonry Stone</td>
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**Abbreviations**

<table>
<thead>
<tr>
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<tr>
<td>A101</td>
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<tr>
<td>A102</td>
<td>Floor Plan - Ground Level</td>
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<td>A202</td>
<td>Elevation</td>
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<td>A310</td>
<td>Wall Sections</td>
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<td>Finish Schedule and Partition Types</td>
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**Vicinity Map**

[Map Image]
Storage Shed/Trash Enclosure - Provide Concrete Pad

New Concrete Entry Walk with Two Steps

Amity Street

Existing Trees and Plantings to be Retained and Improved

Existing Trees to Remain

New Concrete Entrance Landing at Grade

Strong House Loading Area

New Concrete Walkway

Main Stone Plaza w/ Seating

New Water Feature using Existing Grind Stones

Existing Trees to Remain

New Benches, Typ.

Main Stone Plaza w/ Seating

New Stone Seating Wall

New Concrete Accessible Entry Walkway

North Prospect Street

New Concrete Walkway

New Bit. Driveway

Staff Parking

Existing Tree to Remain

Existing Trees to Remain

Existing Curb Cut

New Lawn

New Roof - See Roof Plan - Sheet A106
EXISTING CONDITIONS/ DEMOLITION NOTES

1. All topsoil shall be stripped from grass areas to be remain and be protected trees outside of property line to on site, the rest to be disposed of.

2. The Jones Library, Inc.

3. See: Deed Book 3555, Page 78

4. All topsoil shall be stripped from storage areas designated by the Landscape Architect. Project benchmarks are indicated on the plan sheets.

5. The locations of existing underground utilities are necessary to prepare the site for construction and shall conform to all applicable laws and regulations. All items designated to remain shall be at the Contractors' Landscape Architect prior to beginning work. The contractor shall contact Dig Safe at 1-800-322-4844 to excavation and fill requirements under foundations.

6. The contractor shall contact Dig Safe at 1-800-322-4844 to excavation and fill requirements under foundations. Prior to excavation, the Contractor shall remove all existing unsuitable materials and shall conform to all applicable laws and regulations. All topsoil shall be stripped from storage areas designated by the Landscape Architect.

7. All topsoil shall be stripped from storage areas designated by the Landscape Architect. Project benchmarks are indicated on the plan sheets. Existing conditions and topography taken from a finalization of the project, the Contractor shall remove all boundary monument be destroyed and/or altered as a responsibility of the party incurring the damage to obtain finalization of the project, the Contractor shall remove all boundary monument be destroyed and/or altered as a responsibility of the party incurring the damage to obtain.

8. Disposal of property designated to be removed shall be disposed of outside property line.

9. The Contractor shall remove all existing unsuitable materials and shall conform to all applicable laws and regulations. All items designated to remain shall be at the Contractors' Landscape Architect prior to beginning work. The contractor shall contact Dig Safe at 1-800-322-4844 to excavation and fill requirements under foundations.

10. All topsoil shall be stripped from storage areas designated by the Landscape Architect. Project benchmarks are indicated on the plan sheets. Existing conditions and topography taken from a finalization of the project, the Contractor shall remove all boundary monument be destroyed and/or altered as a responsibility of the party incurring the damage to obtain.

11. Refer to structural and geotech drawings for Disposal of property designated to be removed shall be disposed of outside property line.
NOTES:
1. ALL EXTERIOR FOOTINGS SHALL HAVE MINIMUM 4'-0" FROST DEPTH
2. ALLOWABLE SOIL BEARING CAPACITY ASSUMED TO BE 6 KSF BASED ON INFORMATION FROM 1990s DRAWINGS. ALLOWABLE SOIL BEARING CAPACITY TO BE CONFIRMED BY GEOTECHNICAL ENGINEER.
Demolition Notes

1. Protect historic woodwork (interior and exterior) throughout the entire existing building. Install protective material prior to demolition. See demolition plans for identification of spaces requiring special protection.

2. All existing windows to remain shall be protected during demolition.

3. Protect wood trim, paneling, etc., on all existing walls to remain shall be protected during demolition. See demolition plans for identification of spaces requiring special protection.

4. Remove all existing plumbing equipment and associated piping to be removed, typical at all interior and exterior locations.

5. Protect all exterior electrical equipment, wiring, fixtures, and accessories not scheduled to be re-used.

6. Remove all existing floor slabs as indicated. Shore as required.

7. Remove all existing gutters and downspouts.

8. Salvage, clean, sort, palletize, and store all exterior face brick, limestone cornice, and limestone base stones for repairs and infill at other areas of the building. Contractor to remove brick that is not reused from site.

9. All stairs, ramps, and elevators indicated to be removed shall be removed in their entirety.

10. Provide all necessary shoring and bracing during commencement of demolition.

11. Prior to demolition, all utilities shall be made safe, after which, remove electrical, plumbing, fire protection, and mechanical equipment and accessories.

12. Provide all necessary electrical and mechanical equipment during commencement of demolition.

13. Prior to demolition, all utilities shall be made safe, after which, remove electrical, plumbing, fire protection, and mechanical equipment and accessories.

14. Protect historic woodwork (interior and exterior) throughout the entire existing building. Install protective material prior to demolition. See demolition plans for identification of spaces requiring special protection.

15. All existing windows to remain shall be protected during demolition.

16. Protect wood trim, paneling, etc., on all existing walls to remain; Remove all wood trim elements, plaques, etc., scheduled to be removed and reinstalled prior to demolition.

17. Remove all existing plumbing equipment and associated piping to be removed, typical at all interior and exterior locations.

18. Provide all necessary shoring and bracing during commencement of demolition.

19. Prior to demolition, all utilities shall be made safe, after which, remove electrical, plumbing, fire protection, and mechanical equipment and accessories.

20. Provide all necessary electrical and mechanical equipment during commencement of demolition.

21. Prior to demolition, all utilities shall be made safe, after which, remove electrical, plumbing, fire protection, and mechanical equipment and accessories.

22. Provide all necessary shoring and bracing during commencement of demolition.

23. Protect historic woodwork (interior and exterior) throughout the entire existing building. Install protective material prior to demolition. See demolition plans for identification of spaces requiring special protection.

24. All existing windows to remain shall be protected during demolition.

25. Protect wood trim, paneling, etc., on all existing walls to remain; Remove all wood trim elements, plaques, etc., scheduled to be removed and reinstalled prior to demolition.

26. Remove all existing plumbing equipment and associated piping to be removed, typical at all interior and exterior locations.

27. Provide all necessary shoring and bracing during commencement of demolition.

28. Prior to demolition, all utilities shall be made safe, after which, remove electrical, plumbing, fire protection, and mechanical equipment and accessories.

29. Provide all necessary electrical and mechanical equipment during commencement of demolition.

30. Prior to demolition, all utilities shall be made safe, after which, remove electrical, plumbing, fire protection, and mechanical equipment and accessories.

31. Provide all necessary shoring and bracing during commencement of demolition.

Demolition - Graphic Key

Demolition Notes

1. Protect historic woodwork (interior and exterior) throughout the entire building. Special protective material prior to demolition. See demolition plans for specified protection in specific areas.

2. All existing windows to remain shall be protected during demolition.

3. Protect wall tile, paneling, etc. on all existing walls to remain shall be protected during demolition. See demolition plans for specified protection in specific areas.

4. Remove all existing skylights and transoms not scheduled to be reused, typically at all interior and exterior locations.

5. Remove all existing electrical equipment, fitting, fixtures, and accessories not scheduled to be reused.

6. Remove existing floor slabs as indicated; Shore as required.

7. Remove all existing gutters and downspouts.

8. Salvage, clean, sort, palletize and store all exterior materials prior to demolition. See demolition plans for specific areas.

9. Remove all mechanical equipment and associated accessories.

10. Prior to demolition, all utilities shall be made safe, therafter, remove electrical, plumbing, fire protection, and mechanical equipment as scheduled.

Demolition - Graphic Key

- Removal of Damaged Sheathing; Structure to Remain
- Removal of Damaged Sheathing; Openings Free and Clear for New Slab/Roof/Wall
- Removal of Masonry Wall; Leave Masonry Hardware and Associated Accessories; Salvage, clean, sort, palletize and store all exterior materials scheduled to be removed and reused from site.
- Removal of Masonry Wall; Let Masonry
- Removal of Masonry Shear Walls or Slabs
- Removal of Masonry Surfacing, Plaster, and Trim
- Replacement of Damaged Masonry
- Removal of Masonry Foundation
- Replacement of Masonry Footings, etc.
- Remodeling for New Use
- Demolition Notes
- Erection of Shoring and Formwork During Demolition
- Custom Shoring or Formwork
- Use of Temporary Support System
- Temporary Support System to Remain
Demolition Notes

1. Protect historic woodwork (interior and exterior) throughout the entire building; prior to demolition, see demolition plans for specialized protection in specific areas.

2. Protect historic woodwork (interior and exterior) throughout the entire building; prior to demolition, see demolition plans for specialized protection in specific areas.

3. Remove all existing plumbing equipment, associated accessories, and fixtures. All plumbing, including waste and vent lines, will be removed and associated accessories will be installed as required at new locations. See demolition plans for specialized protection in specific areas.

4. Remove all existing sheet metal and masonry that will be removed. See demolition plans for specialized protection in specific areas.

5. Remove all existing electrical equipment, including wiring, fixtures, and associated accessories.

6. Remove existing floor slabs as indicated; shore as required.

7. Remove all existing gutters and downspouts.

8. Remove all existing doors, frames, hardware, and associated accessories.

9. Remove all existing windows, associated accessories, fittings, and trim.

10. Remove all existing masonry wall; provide shoring as required.

11. Remove all existing slate roofing; prep for new slate roof; slate to be removed to original sheathing; structure to remain intact U.O.N. - provide 10% replacement of damaged sheathing.

12. Provide all necessary shoring and bracing during commencement of demolition.

13. Prior to demolition, all utilities shall be made safe, then, remove electrical, plumbing, fire protection, and mechanical equipment and associated accessories.

Demolition - Graphic Key

- Existing Plumbing
- Existing Electrical
- Existing Masonry
- New Opening
- Existing Slate Roofing
- Existing Slate Base
- Existing Limestone Cornice
- Existing Window
- Existing Door

PROJECT #:

DESCRIPTION DATE:

PROJECT TEAM:

SHEET #:

PROJECT STATUS:

PROJECT ISSUE DATE:

KEY PLAN:

DRAWING HISTORY:

OWNER:

NORTH Finegold Alexander Architects

43 Amity Street
Amherst, MA 01002

(617) 926-9300
www.rseassociates.com

311 Great Road
Littleton, MA 01460

(978) 486-4301
www.blwengineers.com

Jones Library

Interior Design

Landscape Architect/Civil Engineer

MEP FP Engineer

Structural Engineer

Berkshire Design Group

4 Allen Place
Northampton, MA 01060

(413) 582-7000
www.berkshiredesign.com

Stefura Associates, Inc.

77 N. Washington Street
Boston, MA 02114

(617) 723-5164
www.stefura.com

RSE Associates, Inc.

D003

Final Plans Not For Construction

7/1/2022 12:56:05 PM
D:\Users\sanliot\BIM\Jones Library_(Central)_ARC2022_sanliotTPCN4.rvt
Demolition Plan - Third Floor

**Demolition Notes**

1. Protect historic woodwork (interior and exterior) throughout the entire building, protect exterior materials prior to demolition. See demolition plans for specialized protection in specific areas.

2. All existing windows to remain shall be protected during demolition.

3. Protect wood trim, paneling, etc. on all existing walls to remain; remove all wood trim elements, plaques, etc. scheduled to be removed and reinstalled prior to demolition.

4. Remove all existing plumbing equipment and accessories not scheduled to be re-used, typical at all interior and exterior locations.

5. Remove all existing electrical equipment. Wiring, fixtures, and accessories not scheduled to be re-used.

6. Remove existing floor slabs as indicated; shore as required.

7. Remove all existing gutters and downspouts.

8. Remove Existing Masonry Wall; Provide Shoring as Required

9. Salvage, clean, sort, palletize and store all exterior face brick, limestone cornice, and limestone base stones for repairs and infill at other areas of the building. Contractor to remove brick that is not reused from site.

10. All stairs, ramps, and elevators indicated to be removed shall be removed in their entirety.

11. Remove all mechanical equipment and associated accessories.

12. Provide all necessary shoring and bracing during commencement of demolition.

13. Prior to demolition, all utilities shall be made safe, thereafter, remove electrical, plumbing, fire protection, and mechanical equipment and accessories.

**Demolition - Graphic Key**

- Removed Existing Masonry Wall
- Removed Existing Wood or Metal Stud Wall and Associated Fasteners
- Removed Existing Wall to Remain
- Removed Existing Door, Frame, Hardware and Associated Accessories, Fittings, and Trim
- Removed Existing Windows, Associated Accessories, Fittings and Trim. Leave Masonry openings Free and Clear for New Work
- Removed Existing Masonry Wall; Provide Shoring as Required
- Removed Existing Slate Roofing; Prep for New Slate Roof; Slate to be Removed to Original Sheathing; Structure to Remain intact U.O.N. - Provide 10% Replacement of Damaged Sheathing
- Elevator to be Removed in its Entirety
- Stair to Mechanical Level to be Completely Removed
- Stair to Remain; Protect during Demolition
- Protect during Demolition
- Existing Mechanical Level to be Completely Removed
- Existing Stair to Remain; Protect during Demolition
- DEMOLISH COMPLETELY FROM FOUNDATION TO ROOF U.O.N.
Complete Demolition of Structure from Foundation to Roof U.O.N.

Demolition Notes:
1. Remove historic woodwork (interior and exterior) throughout the entire existing building. Install protection material prior to demolition. See demolition plans for specialized protection in specific areas.
2. All existing glazing, glass, and mirrors to remain shall be protected during demolition.
3. Elevator to be removed in its entirety.
4. Remove existing plumbing equipment and accessories not scheduled to be reused, typical at all interior and exterior locations.
5. Remove existing electrical equipment, wiring, fixtures, and accessories not scheduled to be reused.
6. Remove existing floor slabs as indicated; shore as required.
7. Remove all existing gutters and downspouts.
8. Salvage, clean, sort, palletize and store all exterior face brick, limestone cornice, and limestone base stones for repairs and infill at other areas of the building. Contractor to remove brick that is not reused from site.
9. All stairs, ramps, and elevators indicated to be removed shall be removed in their entirety.
10. Remove all mechanical equipment and associated accessories.
11. Provide all necessary shoring and bracing during commencement of demolition.
12. Prior to demolition, all utilities shall be made safe, thereafter, remove electrical, plumbing, fire protection, and mechanical equipment and accessories.
General Notes:
1. When applicable, use the following method for new construction.
2. New construction must be clearly marked with a different color. Place a circle in the work to be completed. Mark existing conditions with another color. For doors, mark with an arrow indicating the field.
3. Plan symbols should not be used for existing conditions.

Graphic Key:
- New Red
- Existing Green - See
- Plan symbols for location
- New Construction
- Existing Construction
- Interior Construction
- Exterior Construction
- Existing/Original Wall
- Infill Existing Openings - See
- Structural Narrative - New Slab to be Flush with Existing Slab.
General Elevation Notes
1. Provide 100% replacement of exterior cornice above - Light Grey.
2. Assume 25% replacement of exterior wood cornice.
3. Assume 50% replacement of exterior wood soffits.
4. Repoint and clean chimneys; Existing Building Beyond.
5. Provide All Brick at Addition.
6. Clean 100% of total existing masonry wall area.
7. Repoint and cap-off Existing Chimneys - Refurbished, Assume 50% replacement.
8. Provide new wood sash with true divided lites to match and insulated glass at all existing windows.
9. Provide snowhooks at all existing slate roofs.
10. Assume 25% replacement of exterior wood cornice.
11. Repoint and clean chimneys; Existing, Typ. at Existing.
12. New Slate Roof to Match and insulated glass at all existing windows.
13. Repoint and cap-off Existing Chimneys - Beyond.
14. Provide new wood sash with true divided lites to match and insulated glass at all existing windows.
15. Provide snowhooks at all existing slate roofs.
17. Repoint and clean chimneys; Existing, Typ. at Existing.
18. New Slate Roof to Match.

Alternate #1

PROJECTIONS EXIST - Provide /no change in direction. - Use Gray.

PROJECTIONS NEW - Use Black.

PROJECTIONS EXIST /NEW - Use Red.

PROJECTIONS EXIST /NEW Retained - Use Blue.

PROJECTIONS NOT FOR CONSTRUCTION

PROJECTIONS NOT FOR CONSTRUCTION - Use Green.

PROJECTIONS NOT FOR CONSTRUCTION Retained - Use Yellow.

PROJECTIONS NOT FOR CONSTRUCTION Retained - Use Orange.

PROJECTIONS NOT FOR CONSTRUCTION Retained - Use Pink.

PROJECTIONS NOT FOR CONSTRUCTION Retained - Use Purple.

PROJECTIONS NOT FOR CONSTRUCTION Retained - Use Cyan.

PROJECTIONS NOT FOR CONSTRUCTION Retained - Use Mauve.

PROJECTIONS NOT FOR CONSTRUCTION Retained - Use Brown.

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PROJECTIONS NOT FOR CONSTRUCTION Retained - Use Magenta.

PROJECTIONS NOT FOR CONSTRUCTION Retained - Use Olive.
Wall Section 1

- Footings
- Wall and Spread Barrier on Insulation on Vapor
- See Schedule
- Cont. 2" Rigid Insulation
- Finish Floor and Base - See Finish Schedule
- Steel Framed Floor
- Ceiling - See Finish Schedule
- Metal Deck
- Concrete Slab on Steel Framed Floor

Wall Section 2

- Footings
- Wall and Spread Barrier on Insulation on Vapor
- See Schedule
- Cont. 2" Rigid Insulation
- Finish Floor and Base - See Finish Schedule
- Steel Framed Floor
- Ceiling - See Finish Schedule
- Metal Deck
- Concrete Slab on Steel Framed Floor

Wall Section 3

- Footings
- Wall and Spread Barrier on Insulation on Vapor
- See Schedule
- Cont. 2" Rigid Insulation
- Finish Floor and Base - See Finish Schedule
- Steel Framed Floor
- Ceiling - See Finish Schedule
- Metal Deck
- Concrete Slab on Steel Framed Floor

**Notes:**
- Slope 1/4"/Ft
- 3/4" = 1'-0"
### Typical Interior CMU Partition

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<tr>
<td>1 5/8&quot; Metal Studs</td>
<td>8&quot; Nom. CMU, 1 Layer 5/8&quot; GWB, 1 Acoustic Sealant, Grout Solid</td>
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### Typical Interior Partition

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<tr>
<td>1 1/2&quot; Metal Stud</td>
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### Typical Wall Finishes

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<td>1</td>
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<td>WD, PT, CPT, GWB, ACT</td>
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</table>

### Abbreviations - Room Finishes

- **WD**: Wood
- **PT**: Paint
- **CPT**: Carpet
- **GWB**: Gypsum Wallboard
- **ACT**: Acoustic Ceiling Tile
- **POR**: Porcelain Tile
- **AC**: Acoustical Ceiling Panel
- **GW**: Glass}

---

**Project Information**

- **Project**: Jones Library
- **Owner**: Berkshire Design Group
- **Structural Engineer**: BLW Engineers, Inc.
- **Architect**: Finegold Alexander Architects
- **Website**: berkshiredesign.com

---

**DRAWING HISTORY**

- **DATE**: July 1, 2022

---

**PROJECT TEAM**

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- **Paula Svec**
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- **Karen DePuy**
  - BLW ENGINEERS, INC.
  - 4 Allen Place
  - Littleton, MA 01460
  - (978) 486-4301

---

**DRAWING SIZE**: 8.5" X 11"
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<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>FW/FHM</td>
<td>6'</td>
<td>7'</td>
<td>Single Leaf</td>
<td>Flush</td>
<td></td>
</tr>
<tr>
<td>FG</td>
<td>6'</td>
<td>7'</td>
<td>Single Leaf</td>
<td>Full Glass Lite</td>
<td></td>
</tr>
<tr>
<td>HG</td>
<td>6'</td>
<td>7'</td>
<td>Single Leaf</td>
<td>Vision Lite</td>
<td></td>
</tr>
<tr>
<td>V</td>
<td>6'</td>
<td>7'</td>
<td>Double Leaf</td>
<td>Flush</td>
<td></td>
</tr>
<tr>
<td>FF</td>
<td>6'</td>
<td>7'</td>
<td>Double Leaf</td>
<td>Full Glass Lite</td>
<td></td>
</tr>
<tr>
<td>FGFG</td>
<td>6'</td>
<td>7'</td>
<td>Double Leaf</td>
<td>Vision Lite</td>
<td></td>
</tr>
</tbody>
</table>

### Door Types

- **FW/FHM**: Single leaf flush door.
- **FG**: Single leaf full glass lite door.
- **HG**: Single leaf vision lite door.
- **V**: Double leaf flush door.
- **FF**: Double leaf full glass lite door.

### Mark Panel Type

- **Wood Door**: D.O. 0'-2"
- **Metal Stud walls**: Mitered and Fully Welded
- **Hollow Metal Frame**: 2" head for Metal Stud walls; Hollow Metal Frame - 2" head for Metal Stud walls; Hollow Metal Frame with Sidelight - FG
- **Glass Laminated**: Solid Core Door, with hardwood veneer and fire rated glass
- **FR3**: Solid Core Door, with hardwood veneer and fire rated glass lite.
- **FR5**: Wood Frame with Multiple Sidelights
- **FR7**: Wood Frame with Multiple Sidelights

### Abbreviations - Door Panel Types

- FR1: FR1S
- FR2: FR3
- FR4: FR5
- FR6: FR7

### Additional Information

- **Wood Door**: D.O. 0'-2"
- **Masonary Walls**: Mitered and Fully Welded
- **Hollow Metal Frame**: 2" head for Metal Stud walls; Hollow Metal Frame - 2" head for Metal Stud walls; Hollow Metal Frame with Sidelight - FG
- **Glass Laminated**: Solid Core Door, with hardwood veneer and fire rated glass
- **FR3**: Solid Core Door, with hardwood veneer and fire rated glass lite.
- **FR5**: Wood Frame with Multiple Sidelights
- **FR7**: Wood Frame with Multiple Sidelights

### Project Details

**Jones Library**

**PROJECT TEAM:**

- Amherst, MA 01002
- Berkshire Design Group
- MEP FP Engineer
- Structural Engineer

**DRAWING HISTORY:**

- SHEET #: P0269.00
- PROJECT ISSUE DATE: July 1, 2022
- PROJECT #:

**CONSTRUCTION NOT FOR 100% Schematic Design**
Window Types

1. Window Type A
2. Window Type B
3. Window Type C
4. Window Type B1
5. Window Type C1
6. Window Type A1
7. Window Type A2
8. Window Type A3
9. Window Type D
10. Window Type C1

Interior Windows & Nana Wall at Young Adult Room
Ground Level - Demolition

EXISTING SPRINKLERS, PIPING, HANGERS AND HARDWARE TO BE REMOVED.

EXISTING RISER, VALVES, PRE-ACTION SYSTEM AND COMPONENTS TO BE REMOVED BACK TO THE POINT OF ENTRY INTO THE BUILDING.
Level 1 - Demolition

DEMOLITION NOTES:
1. EXISTING SPRINKLERS, PIPING, HANGERS AND HARDWARE TO BE REMOVED.
2. EXISTING FIRE DEPT. CONNECTION, ELECTRIC BELL, WATER MOTOR GONG TO BE REMOVED.
Level 2 - Demolition

EXISTING SPRINKLERS, PIPING, HANGERS AND HARDWARE TO BE REMOVED.
Level 3 - Demolition

1/8" = 1'-0"

Level 4 - Demolition

DEMOLITION NOTES:
1. EXISTING SPRINKLERS, PIPING, HANGERS AND HARDWARE TO BE REMOVED.
The flow test data listed shall not be used by the sprinkler contractor and the sprinkler contractor shall perform a new hydrant flow test to obtain current flow and pressure data. The sprinkler contractor shall use his newly obtained flow and pressure data to perform his hydraulic calculations for the sprinkler systems design. The hydrant flow test shall be performed in accordance with NFPA-13. The sprinkler contractor shall provide all labor, materials, equipment, pay all fees and perform all coordination with the local water authorities in order to perform the hydrant flow test.

Specifications

1. Pendent and upright sprinkler heads shall be quick response, brass/chrome finish, 1 orifice, 5.6K factor. Temperature ratings of the sprinkler heads shall be in accordance with NFPA-13.

2. All new sprinkler heads, piping and fittings shall be UL listed and FM approved, and shall be rated at 175 PSI working pressure. Sprinkler heads shall be by Viking, Tyco, Reliable, or approved equal.

3. All above ground piping 1-inch shall be schedule 40 black steel with threaded fittings. All above ground piping larger than 1-inch shall be schedule 10 or 40 black steel with grooved or threaded fittings. All dry piping shall be schedule 10 or 40 hot-dipped galvanized with galvanized fittings. CPVC tube and fittings are approved for use in light hazard areas per manufacturer's specifications.

4. The contractor shall be responsible for cutting and patching all ceilings and walls as required for installation of sprinkler systems. All ceilings and walls shall be patched to the owner/architect's satisfaction.

5. All hangers shall be supported from the building structure. All hangers and rods shall be hot-dipped galvanized. Band type hangers shall be used for sizes 3-inch and smaller. Clevis type hangers shall be used for pipe sizes 4-inch and larger. Rods sizes shall conform to NFPA-13 requirements.

6. All sprinkler work shall be tested in accordance with NFPA 13 latest accepted edition. The test shall be witnessed by the local fire department, the owner representative, the owner's insurance authority. The contractor shall provide the equipment, coordination and notification of all applicable authorities for the sprinkler piping test.

7. All fire protection systems and equipment shall be by Viking, Grinnell or Victaulic.

8. All watertight sleeves, and fire rated sleeves shall be by Linkseal. All sleeves shall be galvanized steel for outdoor or underground applications, and black steel for indoor applications.

9. All sprinkler systems shall be designed, installed in accordance with NFPA-13 latest accepted edition.

10. All sprinkler heads shall be located in the center of the ceiling tiles where tiles are used. Coordinate with architectural plans, for all ceiling types and conditions, and other trades.
MAKE 1" CONNECTION TO 1" BRANCH TEE OUTLET BRANCH LINE. SEE PLANS FOR SIZES.

1"RISER NIPPLE. PROVIDE SUPPORT ATTACHED TO BUILDING STRUCTURE IF LENGTH EXCEEDS 2'-0" INSTALL IN ACCORDANCE W/ NFPA-13.

CEILING UPRIGHT SPRINKLER 1" OUTLET TEE FITTING. 1 2" OUTLET TEE FITTING SHALL NOT BE ALLOWED.

12" 5'-0" MIN. OUTSIDE BUILDING WALL FINISH FLOOR STEEL WATER TIGHT SLEEVE THRUST BLOCK WALL FOOTING FOUNDATION WALL

HEAVY DUTY UNDERGROUND PIPE CLAMP SUITABLE FOR BURIED PIPE. BELL & SPIGOT JOINT WITH O-RING GASKET

DRESSER COUPLING SHALL BE RESTRAINED W/ GRIP-TYPE FLANGES AND RODS. MECHANICAL JOINT RESTRAINT SHALL BE EQUAL TO EBAA IRON MEGALUG SERIES.

NOTES:
1. INCOMING WATER SERVICE INSTALLATION SHALL CONFORM TO ALL LOCAL & STATE REGULATIONS.
2. COORDINATE LOCATION WITH LOCAL WATER AUTHORITY AND SITE UTILITIES PLAN.

6" FIRE PROTECTION MAIN THRU FLOOR. PROVIDE WATER TIGHT SEAL.

6" RETAINER FLANGE WITH TIE ROD SUPPORTS, PER NFPA-24.

GALVANIZED PIPE SUPPORT, SECURED TO FLOOR.

PIPE SADDLE.

6" DOUBLE CHECK VALVE ASSEMBLY 6" OS&Y VALVE WITH TAMPER SWITCH (TYP.)

6" BUTTERFLY VALVE WITH TAMPER SWITCH

2" SPRINKLER DRAIN TO OUTSIDE OF THE BUILDING.

2" SPRINKLER DRAIN VALVE

6" WET SYSTEM ALARM CHECK VALVE WITH ALL VALVES, TRIM, GAUGES, AND ALL APPURTENANCES REQUIRED FOR OPERATION

VANE TYPE MASTER FLOW SWITCH

6" BUTTERFLY VALVE WITH TAMPER SWITCH

4" CHECK VALVE

PIPE TO OUTSIDE PIPE TO 4" FIRE DEPARTMENT CONNECTION, OUTSIDE.

AND ON BOTH SIDES OF FLOOR SLAB

TYPICAL FLEXIBLE COUPLINGS ON EACH FLOOR

VANE TYPE FLOW SWITCH

PRESSURE GAUGE

CHECK VALVE

SPRINKLER MAIN TO FLOOR ZONE SPRINKLERS SEE PLANS FOR SIZES AND LOCATIONS

TYPICAL STAIR LANDING

6" SPRINKLER RISER 2" SPRINKLER DRAIN RISER BUTTERFLY VALVE WITH TAMPER SWITCH AT EVERY FLOOR

TYPICAL FIRE RATED SLEEVE WITH DRAIN/TEST VALVE, SIGHT GLASS AND 1/2" COMBINATION INSPECTORS TEST & DRAIN ASSEMBLY CORROSION RESISTANT ORIFICE EXPOSED IN STAIR THRU WALL SECTION WALL OR FLOOR

NOTE:
1. INSTALL LINK-SEAL ON BOTH ENDS OF THE CORE DRILLED OPENING.
DRAWING DEMOLITION KEYNOTES

TAG NO | DESCRIPTION
--- | ---
REMOVE EX. LAVATORY, HB, ACCESSORIES & ASSOCIATED CW, HW, SAN & V PIPING IN ITS ENTIRETY. CAP PIPING AT WALL FOR FUTURE CONNECTION.
REMOVE EX. W.C., ACCESSORIES & ASSOCIATED CW, SAN & V PIPING IN ITS ENTIRETY. CAP PIPING AT WALL FOR FUTURE CONNECTION.
REMOVE EX. SINK, ACCESSORIES & ASSOCIATED CW, HW, SAN & V PIPING IN ITS ENTIRETY. CAP PIPING AT WALL FOR FUTURE CONNECTION.
REMOVE EX. UR., ACCESSORIES & ASSOCIATED CW, SAN & V PIPING IN ITS ENTIRETY. ALL PIPING SHALL BE REMOVED ENTIRELY AND CAPPED AT NEAREST ACTIVE MAIN
REMOVE EX. WATER HEATER AND RELATED ACCESSORIES LOCATED ABOVE CEILING. CAP PIPING FOR FUTURE CONNECTION.
REMOVE EX. FD AND ASSOCIATED PIPING.
REMOVE EX. JANITOR SINK, ACCESSORIES & ASSOCIATED CW, HW, SAN & V PIPING IN ITS ENTIRETY. CAP PIPING AT WALL FOR FUTURE CONNECTION.
REMOVE EX. SHOWER, ACCESSORIES & ASSOCIATED CW, HW, SAN & V PIPING IN ITS ENTIRETY. CAP PIPING AT WALL FOR FUTURE CONNECTION.

NOTES: REMOVAL SHALL INCLUDE, BUT NOT LIMITED TO, FITTINGS, VALVES, SUPPORTS, INSULATION & ACCESSORIES. PIPING SHALL BE SAFELY DISCONNECTED FROM EQUIPMENT/FIXTURE, PRIOR TO REMOVAL.
NOTES:
1. ALL EXISTING PIPING SHALL BE FIELD VERIFIED.
2. PLUMBING FIXTURE SHALL BE SAFELY DISCONNECTED FROM UTILITY PIPING PRIOR TO REMOVAL. REMOVAL SHALL BE COORDINATED WITH OTHER TRADES, WHERE REQUIRED.
3. PLUMBING CONTRACTOR SHALL COMPLETE ALL REQUIRED DEMOLITION WORK IN ORDER TO ACCOMMODATE NEW ARCHITECTURAL LAYOUT.
4. PLUMBING DEMOLITION SCOPE OF WORK SHALL BE COORDINATED WITH ARCHITECTURAL PLANS.
5. EXISTING WASTE PIPING SHALL BE RODDED, FLUSHED AND CLEANED TO ACHIEVE FULL FLOW, PRIOR TO CONNECTION TO NEW WASTE PIPING.
6. PIPING TO BE REMOVED SHALL BE REMOVED ENTIRELY AND CAPPED AT NEAREST ACTIVE PIPING MAIN.
7. REMOVE AND REPLACE ALL BALANCING VALVE STATIONS.
PD105

Roof - Demolition

SCALE: 1/8"=1'-0"

Fourth Floor - Demolition

PROJECT TEAM:

SHEET NAME: SCALE: 1/8"=1'-0"

PROJECT INFORMATION:

OWNER:

Finegold Alexander Architects

43 Amity Street
Amherst, MA 01002
(617) 926-9300
www.rseassociates.com

BLW Engineers, Inc.

311 Great Road
Littleton, MA 01460
(978) 486-4301
www.blwengineers.com

Jones Library

Third Floor - Demolition

PD105

Fourth Floor - Demolition

PD105

Preliminary not For Construction

PROJECT ISSUE DATE:

6/13/2022 4:02:51 PM

Jones Library_(Central)_ARC2022_detached.rvt
Jones Library_(Central)_ARC2022_detached.rvt

DRAWING HISTORY:
Plumbing

PROJECT #:

PROJECT INFORMATION:
Preliminary

SPEAKMAN, ZURN OR APPROVED EQUAL. BELOW LAVATORY PIPING COVERS SHALL BE EQUAL TRUE BRO LAV GUARD OR EQUAL BY MCGUIRE, ... SHOWER TRIM SHALL BE BY SYMMONS, KOHLER, MOEN, OR APPROVED EQUAL. WATER COOLER SHALL BE BY ELKAY, HALSEY TAYLOR, OASIS OR APPROVED EQUAL.

2 WALL MOUNTED

P-8 NORTH

PROVIDE TW SUPPLY VIA MIXING VALVE. PROVIDE ALL

P-7 AMP). PROVIDE W/ FLEXI GUARD BUBBLER. PROVIDE

"P-TRAP

1 CAST DRAIN BODY WITH MSB2424

" X 1 " X 1 "

PROVIDE WITH TRAP PRIMER CONNECTION

WATTS BRASS #763171B. P

STRAINER & 1

9159-LS-DST

UNDERMOUNTED

ELUHAD191612

2"

"EQUAL

SWEAT x

2"

" X 1 "

" X 1 "

PROVIDE OFFSET, AS REQUIRED. PROVIDE BASKET

B8912

WATTS BRASS #763171B. P

CO PLUG EQUAL TO MCGUIRE

#109

" OD 17GA BRASS TAILPIECE EQUAL TO MCGUIRE MODEL

TO MCGUIRE

1.5 GPM

1.5 GPM

9159-LS-DST

1.5 GPM

" EQUAL

SWEAT x

1.5 GPM

" EQUAL

SWEAT x

2"

" X 1 "

" X 1 "

PROVIDE W/ FLANGES ON INLET AND OUTLET.  PUMP

TEL 105-C20E

1.5 GPM

" CAST BRASH

1.5 GPM

" CAST BRASH

1.5 GPM

" CAST BRASH

1.5 GPM

" CAST BRASH

1.5 GPM

" CAST BRASH

1.5 GPM

" CAST BRASH

1.5 GPM

" CHROME PLATED P-TRAP W/

1.5 GPM

" CHROME PLATED P-TRAP W/

1.5 GPM

" CHROME PLATED P-TRAP W/

1.5 GPM

" CHROME PLATED P-TRAP W/

1.5 GPM

" CHROME PLATED P-TRAP W/

1.5 GPM

" CHROME PLATED P-TRAP W/

1.5 GPM

" CHROME PLATED P-TRAP W/

1.5 GPM

" CHROME PLATED P-TRAP W/

1.5 GPM

" CHROME PLATED P-TRAP W/

1.5 GPM

" CHROME PLATED P-TRAP W/
NOTES:

1. PROVIDE TRAP PRIMER DISTRIBUTION UNITS AS REQUIRED.

2. INSTALL TRAP PRIMER AS CLOSE TO WALL AS POSSIBLE.

3. TRAP PRIMER SHALL BE BY PRECISION PLUMBING PRODUCT. MI-FAB, SIOUX CHIEF OR APPROVED EQUAL.

4. TRAP PRIMERS SHALL BE PROVIDED WHERE REQUIRED AND/OR WHERE SHOWN ON PLANS.

5. ALL FLOOR DRAINS SHALL BE PROVIDED WITH TRAP PRIMER, EXCEPT FLOOR DRAIN RECEIVING COMBINATION UNIT, AS REQUIRED.

1. HANGER ROD SHALL BE INSTALLED PER MANUFACTURER’S GUIDELINES.

2. PROVIDE PROTECTIVE SLEEVE, COATING AND WRAPPING ON PIPE TO FLOOR.
P003A
FINISH FLOOR

3"COLD WATER. FOR CONT, REFER TO PLANS

TYPICAL WATER PRESSURE GAUGE W/ ISOLATION VALVE

4"HOSE END BALL VALVE W/ THREADED HOSE END & VACUUM BREAKER W/ CAP & CHAIN

HEIGHT SHALL CONFORM TO THE LOCAL WATER AUTHORITY REQUIREMENTS. HEIGHT SHALL BE AT A MINIMUM OF 3'-0"

NOTES:
1. WATER METERS SHALL BE FURNISHED AND INSTALLED BY THE PC, AND SHALL BE APPROVED BY THE LOCAL WATER DEPARTMENT PRIOR TO PURCHASE AND INSTALLATION. WATER METER SIZE SHALL BE AS DIRECTED BY LOCAL WATER DEPARTMENT.
2. THE REMOTE READOUT REGISTER SHALL BE FURNISHED AND INSTALLED BY THE PC AND SHALL BE APPROVED BY THE WATER DEPARTMENT PRIOR TO PURCHASE AND INSTALLATION. WATER METER BY-PASS SHALL CONFORM TO LOCAL WATER AUTHORITY REGULATIONS.
3. PROVIDE MINIMUM 1'-0" OF CLEARANCE BETWEEN BACKFLOW PREVENTER AND WALL.
4. PROVIDE SLEEVES AND SUPPORTS AS REQUIRED.
5. FURNISH TO OWNER ONE TEST KIT AND SPARE PARTS KIT FOR EACH BACKFLOW PREVENTER.
6. PC SHALL ACT AS THE OWNER'S AGENT IN SEEKING APPROVAL FROM ALL LOCAL AND STATE AUTHORITIES. PC SHALL SUBMIT ALL PLANS, SPECS, AND APPLICATIONS REQUIRED FOR APPROVAL AND PAY ALL FEES.
7. TEST AND CERTIFY EACH BACKFLOW PREVENTER INSTALLATION.
8. COORDINATE IRRIGATION PIPING SIZE W/ LANDSCAPE CONTRACTOR AND PROVIDE ACCORDINGLY.

REMOTE READOUT REGISTER ON OUTSIDE.
EXACT LOCATION SHALL BE DETERMINED BY THE WATER DEPARTMENT

PROPOSED DOMESTIC WATER METER.
EXACT METER SIZE AND TYPE SHALL BE COORDINATED WITH & DETERMINED BY LOCAL WATER DEPARTMENT.

ESTIMATED MAXIMUM FLOW: ## GPM.

STRAINER (TYP.)

TYPICAL PIPE SUPPORT SECURED TO FLOOR

TYPICAL GALVANIZED PIPE SUPPORT

TYPICAL GATE VALVE

PROVIDE 3"BACKFLOW PREVENTER APOLLO MODEL RPLF 4A SERIES, LEAD FREE

FULL SIZE AIR GAP, PIPE TO FLOOR DRAIN (TYP.)

"INCOMING DOMESTIC WATER SERVICE.

PROVIDE BACKFLOW PREVENTER WATTS MODEL LF009

PIPE SHALL BE EXTENDED OUTSIDE TO IRRIGATION SYSTEM, AS REQUIRED.

COORDINATE SIZE AND LOCATION W/ LANDSCAPE / IRRIGATION CONTRACTOR.

WATER METER DEDICATED TO IRRIGATION SYSTEM.

1"CW TO TRAP PRIMER SERVICING FLOOR DRAIN WITHIN WATER ROOM.

TRAP PRIMER DEVICE.

3" PRESSURE-REGULATING VALVE EQUAL TO WATTS MUSTANG SERIES, SET TO 75PSI.

"INCOMING DOMESTIC WATER SERVICE.

COORDINATE SIZE AND LOCATION W/ LANDSCAPE / IRRIGATION CONTRACTOR.

WATER METER DEDICATED TO IRRIGATION SYSTEM.

1"CW & HW SUPPLIES.

CLEANOUT PLUG SET ABOVE FLOOR

P-TRAP W/ CO...
Architects
Finegold Alexander

PROJECT TEAM:

OWNER:

Jones Library
40 Pleasant Street, Suite 200
Watertown, MA 02472
(617) 926-9300
www.rseassociates.com

BLW Engineers, Inc.
311 Great Road
Littleton, MA 01460
(978) 486-4301
www.blwengineers.com

Berkshire Design Group
4 Allen Place
Northampton, MA 01060
(413) 582-7000
www.berkshiredesign.com

Stefura Associates, Inc.
77 N. Washington Street
Boston, MA 02114
(617) 723-5164
www.stefura.com

PROJECT INFORMATION:

Jones Library
43 Amity Street
Amherst, MA 01002
PROJECT #:
PROJECT ISSUE DATE:
PROJECT STATUS:
SHEET NAME:
Roof Level
DRAWING HISTORY:
NO.
DESCRIPTION
DATE

1/8" = 1'-0" 1 Roof Plan

G
B
C
AA

P106

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NOTES:

1. LOCATION OF ROOF DRAINS SHALL BE CAREFULLY COORDINATED WITH ARCHITECTURAL PLANS. PROVIDE ACCESSIBLE BACKWATER VALVES AT OUTLETS ROOF DRAINS LOCATED AT LOWER ROOFS.

2. VTR PIPING SHALL BE LOCATED MIN. 25'-0" FROM FRESH AIR INTAKE OR AS CLOSE AS 10'-0" AND 2'-0" ABOVE FRESH AIR INTAKE.

3. PROVIDE ACCESSIBLE BACKWATER VALVES ON OUTLET.
### Demolition Abbreviations

- **Hallux**
- **Preliminary**
- **Construction**
- **Revision**
- **Revisions**

### Ductwork Legend

- **Round Ductwork**
- **Rectangular Ductwork**
- **Transition**
- **Existing**
- **Remain**

### Drawing Notes

1. **NOT FOR WASTE DISPOSAL.**
2. **NOT FOR CONFIDENTIAL USE.**

### Piping Legend

- **Heat Piping**
- **Water Piping**
- **Condensate Piping**
- **Condenser Water**

### Air Device Legend

- **Air Supply**
- **Air Exhaust**
- **Air Diffuser**

### Abbreviations

- **AC** (Air Conditioner)
- **BTE** (British Thermal Unit)
- **CFM** (Cubic Feet per Minute)
- **GPM** (Gallons per Minute)
- **OD** (Outside Diameter)
- **DB** (Dry Bulb Temperature)
- **WB** (Wet Bulb Temperature)

### Existing Equipment Tags

- ** Assy** (Assembly)
- **Box**
- **User**
- **Reg** (Register)

### Demolition Notes

- **Removal of Existing Construction**
- **Disconnection of Services**
- **Salvage of Equipment**
- **Delivery to Owner**

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**NOTES:**

- **NOTES:**
- **NOTES:**
- **NOTES:**
Second Floor - HVAC Demolition

TO BE DEMOLISHED AND REMOVED

- ALL HWS, R, CHWS, R, & DTWS, R PIPING
- DUCTWORK AND CONTROLS
- DEMO & REMOVE EXHAUST FAN,
  24" Duct Diameter
- DEMO & REMOVE EXISTING FAN COILS,
  27.8" Fan Diameter
- DE.childNodes38; ELEMENTS (TYPICAL)
- HWR DN & UP & (E)
- 10" HWS & HWR DN
- 16" HWS DN
- 4" HWR DN
- 2" HWS DN & UP
- 2" HWR DN
- 2" HWS & HWR DN
- 1" HWS & HWR DN & UP
- 1" HWR DN
- 2" CS & CR DN & UP
- 1" HWS & HWR DN & UP
- 12" HWS DN & UP
- 18" HWS DN & UP
- 30"x12" DN & UP
- 30"x12" HWS & CHWS DN & UP
- 10"x3" HWS DN & UP
- 16"x10" HWS DN & UP
- 24"x12" HWS DN & UP
- 16"x14" HWS DN & UP
- 24"x12" HWR DN & UP
- 18"x14" HWR DN & UP
- 24"x12" HWR DN & UP
- 8" Ø (TYP)
- 2" Ø (TYP)
- 8" Ø (TYP) TO ROOF VENT
- 6" Ø EXH DUCT
- 120" (TYP)
- ROOF CAP
- 8"x10" (TYP) ROOF VENT
- 16"x10" (TYP) ROOF VENT
- 18"x14" (TYP) ROOF VENT
- 24"x12" (TYP) ROOF VENT
- 32"x12" (TYP) ROOF VENT
- ROOF CAP
- 8" Ø (TYP) TO ROOF VENT
- DIFFUSERS AND REGISTERS TO BE
  DEMO & REMOVE EXHAUST FAN,
  24" Diameter
- DEMO & REMOVE EXISTING FINNED
  TUBE RADIATION, PIPING AND
  CONTROLS (TYPICAL)
- DEMO & REMOVE EXHAUST FAN,
  24" Diameter
- DEMO & REMOVE EXISTING FAN COILS,
  27.8" Fan Diameter
- DE.childNodes38; ELEMENTS (TYPICAL)
- HWR DN & UP & (E)
- 10" HWS & HWR DN
- 16" HWS DN
- 4" HWR DN
- 2" HWS DN & UP
- 2" HWR DN
- 2" HWS & HWR DN
- 1" HWS & HWR DN & UP
- 1" HWR DN
- 2" CS & CR DN & UP
- 1" HWS & HWR DN & UP
- 12" HWS DN & UP
- 18" HWS DN & UP
- 30"x12" DN & UP
- 30"x12" HWS & CHWS DN & UP
- 10"x3" HWS DN & UP
- 16"x10" HWS DN & UP
- 24"x12" HWS DN & UP
- 16"x14" HWS DN & UP
- 24"x12" HWR DN & UP
- 18"x14" HWR DN & UP
- 24"x12" HWR DN & UP
- 8" Ø (TYP)
- 2" Ø (TYP)
- 8" Ø (TYP) TO ROOF VENT
- 6" Ø EXH DUCT
- 120" (TYP)
- ROOF CAP
- 8" Ø (TYP) TO ROOF VENT
- DIFFUSERS AND REGISTERS TO BE
  DEMO & REMOVE EXHAUST FAN,
  24" Diameter
- DEMO & REMOVE EXISTING FINNED
  TUBE RADIATION, PIPING AND
  CONTROLS (TYPICAL)
- DEMO & REMOVE EXHAUST FAN,
  24" Diameter
- DEMO & REMOVE EXISTING FAN COILS,
  27.8" Fan Diameter
- DE.childNodes38; ELEMENTS (TYPICAL)
- HWR DN & UP & (E)
- 10" HWS & HWR DN
- 16" HWS DN
- 4" HWR DN
- 2" HWS DN & UP
- 2" HWR DN
- 2" HWS & HWR DN
- 1" HWS & HWR DN & UP
- 1" HWR DN
- 2" CS & CR DN & UP
- 1" HWS & HWR DN & UP
- 12" HWS DN & UP
- 18" HWS DN & UP
- 30"x12" DN & UP
- 30"x12" HWS & CHWS DN & UP
- 10"x3" HWS DN & UP
- 16"x10" HWS DN & UP
- 24"x12" HWS DN & UP
- 16"x14" HWS DN & UP
- 24"x12" HWR DN & UP
- 18"x14" HWR DN & UP
- 24"x12" HWR DN & UP
- 8" Ø (TYP)
- 2" Ø (TYP)
- 8" Ø (TYP) TO ROOF VENT
- 6" Ø EXH DUCT
- 120" (TYP)
- ROOF CAP
- 8" Ø (TYP) TO ROOF VENT
- DIFFUSERS AND REGISTERS TO BE
  DEMO & REMOVE EXHAUST FAN,
  24" Diameter
- DEMO & REMOVE EXISTING FINNED
  TUBE RADIATION, PIPING AND
  CONTROLS (TYPICAL)
- DEMO & REMOVE EXHAUST FAN,
  24" Diameter
- DEMO & REMOVE EXISTING FAN COILS,
Third Floor - HVAC Demolition

DEMO & REMOVE EXHAUST FAN, DUCTWORK AND CONTROLS
DEMO & REMOVE EXISTING FINNED TUBE RADIATION, PIPING AND CONTROLS (TYPICAL)
ALL HWS, R, CHWS, R, & DTWS, R PIPING TO BE DEMOLISHED AND REMOVED (TYPICAL)

Fourth Floor - HVAC Demolition

DEMO & REMOVE EXISTING HEATING COIL, PIPING AND CONTROLS
DEMO & REMOVE EXISTING HEATING COIL, PIPING AND CONTROLS
EXISTING AIR CONDITIONING UNIT, DUCTWORK, PIPING, AND CONTROLS TO BE DEMOLISHED AND REMOVED
DEMO & REMOVE EXISTING EXHAUST SYSTEM LOUVER TO REMAIN. BLANK OFF WITH INSULATED SHEET METAL
ALL HWS, R, CHWS, R, & DTWS, R PIPING TO BE DEMOLISHED AND REMOVED (TYPICAL)
**PROJECT INFORMATION:**

- **ALL DEMOLITION SCOPE ASSOCIATED WITH LOW VOLTAGE SYSTEMS INCLUDING BUT NOT LIMITED TO TELEPHONE, DATA, SECURITY, CONTROLS, WALL OCCUPANCY SENSOR, MULTI-TECHNOLOGY, 180°, 300SF OF COVERAGE.**
- **MOUNTING HEIGHT WITH OWNER PRIOR TO INSTALLATION.**
- **“VFD” INDICATES VARIABLE FREQUENCY DRIVE.**
- **REUSE OF EXISTING FIRE ALARM SYSTEM RACEWAYS SHALL NOT BE ALLOWED. ALL REQUIRED SYSTEM SHUTDOWNS SHALL BE SUPPORTED.**
- **THE ELECTRICAL DEMOLITION PLANS AND DETAILS INDICATE THE GENERAL INTENT AND ARE NOT INTENDED TO SHOW ALL ITEMS TO BE SUPPORTED.**
- **THE EXECUTION OF THE WORK. DAMAGE SHALL INCLUDE BUT NOT BE LIMITED TO DESTRUCTION OR DISPOSAL OF ITEMS INTENDED TO BE SUPPORTED.**
- **THE ELECTRICAL CONTRACTOR SHALL TEMPORARILY SUPPORT ALL ITEMS TO REMAIN THAT ARE AFFECTED BY THE DEMOLITION OF WALLS AND/OR CEILINGS TO BE REMOVED WITH THE ACTUAL CONDITIONS AND EXTENT OF WORK. DEVICES AND EQUIPMENT LOCATED ON WALLS AND/OR CEILINGS TO BE REMOVED.**
- **IN NEC 518.2, ALL NONLOCKING-TYPE, 125 VOLT, 15 AND 20 AMPERE RECEPTACLES SHALL BE LISTED TAMPER RESISTANT RECEPTACLES.**
- **SIMPLEX CONVENIENCE RECEPTACLE OUTLET.**
- **DOUBLE DUPLEX CONVENIENCE RECEPTACLE OUTLET.**
- **DUPLEX RECEPTACLE OUTLET, CEILING MOUNTING.**
- **MAINS POWER POINTS.**
- **SPECIAL PURPOSE RECEPTACLE, REFER TO SPECIAL PURPOSE RECEPTACLE SCHEDULE, '#' INDICATES TYPE.**
- **PP1-2 SPECIAL PURPOSE RECEPTACLE OUTLET.**

**EQUIPMENT TAG, REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.**

**FEEDER TAG, NUMBER INDICATES AMPERE RATING OF FEEDER AND NUMBER OF WIRES, REFER TO FEEDER SCHEDULE.**

**MECHANICAL EQUIPMENT TAG, REFER TO MECHANICAL EQUIPMENT COORDINATION SCHEDULE FOR ELECTRICAL POWER NOTES.**

**BRANCH CIRCUIT OR FEEDER CONCEALED UNLESS OTHERWISE NOTED. BRANCH CIRCUIT DIAGONAL LINES INDICATE CONCEALED UNLESS OTHERWISE NOTED.**

**LIGHTING AND CONTROLS:**

- **EXIT SIGN, SHADING INDICATES FACE, ARROW INDICATES DIRECTION OF CHEVRON.**
- **MOTOR CONTROL CENTER.**
- **FLOOR MOUNTED COMMUNICATIONS OUTLET (RJ45), UTILIZE BRASS COVER PLATE.**
- **CEILING MOUNTED COMPUTER / ETHERNET OR DATA OUTLET (RJ45) WITH SINGLE GANG BACK BOX AND COVER PLATE.**
- **VFD HORSEPOWER.**
- **DIRECT CURRENT (DC).**
- **SOLID NEUTRAL.**
- **NON-SYSTEM.**
- **KW.**
- **KW-HR.**
- **AMPERE INTERRUPTING CAPACITY.**
- **PS.**
- **ATS.**
- **EWC.**
- **SOLID HOT.**
- **SOLID WARM.""
EXISTING SERVICE SHALL BE DISCONNECTED AND REMOVED IN ITS ENTIRETY AT THE COMPLETION OF THE INSTALLATION WITH HVAC EQUIPMENT INDICATED FOR REMOVAL. REFER TO MECHANICAL PLANS FOR DETAILS.

EQUIPMENT (INCLUDING DISCONNECTS, STARTERS, JUNCTION BOXES, WIREWAYS, WIRING AND APPURTENANCES) ASSOCIATED WITH EXISTING ELECTRICAL SYSTEMS. CONTRACTOR BID SHALL INCLUDE ALL WORK NECESSARY TO FULLY REMOVE ALL EXISTING ELECTRICAL DEVICES, WIRING AND SERVICE. REFER TO DRAWING E001 FOR DEMOLITION SUBSCRIPTS.

PRIOR TO BID, ELECTRICAL CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH ALL ASPECTS OF THE PROJECT INFORMATION:
EQUIPMENT (INCLUDING DISCONNECTS, STARTERS, JUNCTION BOXES, WIREWAYS, WIRING AND APPURTENANCES) ASSOCIATED EQUIPMENT TO BE REMOVED BY MECHANICAL CONTRACTOR.

AMOUNT OF ITEM'S TO BE REMOVED.

ELECTRICAL DEVICES, WIRING AND SERVICE. REFER TO DRAWING E001 FOR DEMOLITION SUBSCRIPTS.

EXISTING ELECTRICAL SYSTEMS. CONTRACTOR BID SHALL INCLUDE ALL WORK NECESSARY TO FULLY REMOVE ALL EXISTING...
1. PRIOR TO BID, ELECTRICAL CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH ALL ASPECTS OF THE EXISTING ELECTRICAL SYSTEMS. CONTRACTOR BID SHALL INCLUDE ALL WORK NECESSARY TO FULLY REMOVE ALL EXISTING ELECTRICAL DEVICES, WIRING AND SERVICE. REFER TO DRAWING E001 FOR DEMOLITION SUBSCRIPTS.

2. EXACT QUANTITY OF ELECTRICAL ITEMS MAY DIFFER IN FIELD. THIS PLAN IS TO INDICATE SCOPE OF DEMOLITION AND GENERAL AMOUNT OF ITEM'S TO BE REMOVED.

3. ALL ITEMS TO BE REMOVED SHALL BE DISPOSED OFF SITE IN A LEGAL MANNER.

4. ELECTRICAL CONTRACTOR SHALL DISCONNECT AND MAKE SAFE ALL ELECTRICAL EQUIPMENT ASSOCIATED WITH MECHANICAL EQUIPMENT TO BE REMOVED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL REMOVE ALL ELECTRICAL EQUIPMENT (INCLUDING DISCONNECTS, STARTERS, JUNCTION BOXES, WIREWAYS, WIRING AND APPURTENANCES) ASSOCIATED WITH HVAC EQUIPMENT INDICATED FOR REMOVAL. REFER TO MECHANICAL PLANS FOR DETAILS.
1. **FIRE ALARM SYSTEM SPECIFICATION**

   - **TYPICAL FIRE ALARM DEVICE LABELING DETAIL**
     - All fire alarm devices and equipment used shall be approved for use by the local fire department.
   - **DEVICE MOUNTING HEIGHT DETAIL**
     - The completed fire alarm system shall meet all local and state codes.
   - **ELEVATOR RECALL WIRING DETAIL**
     - Elevator recall wiring detail shown on the drawings. The annunciator shall be flush mounted and shall be supervised for system trouble. All alarm LED's and wiring shall be supervised. The detector(s) in the pit go into alarm to send the elevator away from the pit.
   - **ELEVATOR MACHINE ROOM, PIT, SHAFT DETAILS**
     - ELEVATOR RECALL WIRING DETAIL
   - **FIRE PROTECTION SERVICE GROUNDING DETAIL**
     - Fire protection service grounding detail shown on the drawings.
   - **TYPICAL DUCT SMOKE DETECTOR MOUNTING DETAIL**
     - Smoke detectors shall be installed in the supply air system for all make-up air ducts or plenums. Detectors shall be installed at each story. Such smoke detectors shall be exhaust air connections, outdoor air connections, or decontamination fittings.
   - **RETURN DUCT**
     - Jones Library (Central)_ARC2022_detached.rvt

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2. **DRAWING HISTORY**

   - **SHEET NAME**: Typical Duct Smoke Detector Mounting Detail
   - **DRAWING NUMBER**: FA001
   - **DATE**: Amherst, MA 01002

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3. **PHOTOGRAPHIC FINISH**

   - **FITTING**: Preliminary
   - **SUBMITTED DETAILING THE RESULTS OF THE PRELIMINARY TEST**: Shall accompany the request for final acceptance.
   - **DISCONNECT**: HVAC Unit
   - **HVAC UNIT POWER**: HVAC unit shall initiate elevator recall.

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4. **ELEVATOR CONTROLLER**

   - **INITIATE ELEVATOR RECALL**: Elevator controller shall initiate elevator recall.

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5. **ELEVATOR REQUIREMENTS**

   - **ADA**: Provide and install (5) addressable control module devices. Elevator controller shall initiate elevator recall. Provide LED type remote annunciator, positioned as shown on the drawings. The annunciator shall be flush mounted and shall be supervised for system trouble. All alarm LED's and wiring shall be supervised. The detector(s) in the pit go into alarm to send the elevator away from the pit.
   - **FIRE ALARM SYSTEM**: The fire alarm system shall be a complete automatic and manual, closed circuit, Class A, 4 wire, connected and supervised. All alarm LED's and wiring shall be supervised.

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6. **ELEVATOR CONSTRUCTION**

   - **REQUIREMENTS OF THE ADA**: Provide and install (5) addressable control module devices. Elevator controller shall initiate elevator recall. Provide LED type remote annunciator, positioned as shown on the drawings. The annunciator shall be flush mounted and shall be supervised for system trouble. All alarm LED's and wiring shall be supervised.

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7. **ELEVATOR SAFETY**

   - **MINIMUM HOLDING FORCE**: Minimum holding force shall be 25 pounds. Body shall be diecast with polished finish.
   - **MOUNTED TYPE**: Mounted type and shall be supervised for system trouble. All alarm LED's and wiring shall be supervised.

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8. **ELEVATOR Wiring**

   - **FOR FIRE ALARM WIRING IN EXPOSED AREAS**: Provide type THHN insulation. Wire size shall be #14 AWG minimum. All fire alarm wiring shall be insulated. For fire alarm wiring in enclosed spaces, provide plenum rated, type FPLP, with red outer jacket. Installation shall comply with the requirements of the ADA.
   - **REQUIRED TO BE SERVED BY THE SYSTEM**: The systems shall have built-in 24 volts DC power supply and integral battery charger.
   - **FACP**: The FACP shall transmit an alarm signal to the local fire department via a method coordinated with the local fire department. The FACP shall have a digital alarm communicator transmitter (DACT) to enable automatic transmission of alarm signals.

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9. **ELEVATOR FAN**

   - **ASSOCIATED FAN**: Provide and install (5) addressable control module devices. Elevator controller shall initiate elevator recall. Provide LED type remote annunciator, positioned as shown on the drawings. The annunciator shall be flush mounted and shall be supervised for system trouble. All alarm LED's and wiring shall be supervised.

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10. **ELEVATOR WARNING**

    - **ONE TO SIGNAL FIREMANS HAT**: Provide and install (5) addressable control module devices. Elevator controller shall initiate elevator recall. Provide LED type remote annunciator, positioned as shown on the drawings. The annunciator shall be flush mounted and shall be supervised for system trouble. All alarm LED's and wiring shall be supervised.

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11. **ELEVATOR ALARM**

    - **FOR REPLACEMENT OR MODIFIED FIRE ALARM SYSTEMS**: At no time during construction shall the building be without protective function. Elevator recall wiring shall be programmed to sound the general alarm. The FACP shall sound the general alarm when a smoke detector is activated. The alarm signal to the fire department shall be enabled.

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12. **ELEVATOR ACCESS**

    - **WHEN PLACED INTO THE BASE**: Provide and install (5) addressable control module devices. Elevator controller shall initiate elevator recall. Provide LED type remote annunciator, positioned as shown on the drawings. The annunciator shall be flush mounted and shall be supervised for system trouble. All alarm LED's and wiring shall be supervised.

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13. **ELEVATOR INTERCOM**

    - **PROVIDE LED TYPE REMOTE ANNUNCIATOR**: Provide and install (5) addressable control module devices. Elevator controller shall initiate elevator recall. Provide LED type remote annunciator, positioned as shown on the drawings. The annunciator shall be flush mounted and shall be supervised for system trouble. All alarm LED's and wiring shall be supervised.

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14. **ELEVATOR SECURITY**

    - **PROTECTIVE FUNCTION**: All fire alarm devices and equipment used shall be approved for use by the local fire department.

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15. **ELEVATOR ROOM**

    - **WHEN PLACED INTO THE BASE**: Provide and install (5) addressable control module devices. Elevator controller shall initiate elevator recall. Provide LED type remote annunciator, positioned as shown on the drawings. The annunciator shall be flush mounted and shall be supervised for system trouble. All alarm LED's and wiring shall be supervised.

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16. **ELEVATOR WIRING**

    - **FOR FIRE ALARM WIRING IN EXPOSED AREAS**: Provide type THHN insulation. Wire size shall be #14 AWG minimum. All fire alarm wiring shall be insulated. For fire alarm wiring in enclosed spaces, provide plenum rated, type FPLP, with red outer jacket. Installation shall comply with the requirements of the ADA.

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17. **ELEVATOR CONSTRUCTION**

    - **ADA CODE**: Provide and install (5) addressable control module devices. Elevator controller shall initiate elevator recall. Provide LED type remote annunciator, positioned as shown on the drawings. The annunciator shall be flush mounted and shall be supervised for system trouble. All alarm LED's and wiring shall be supervised.

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18. **ELEVATOR SAFETY**

    - **MINIMUM HOLDING FORCE**: Minimum holding force shall be 25 pounds. Body shall be diecast with polished finish.
    - **MOUNTED TYPE**: Mounted type and shall be supervised for system trouble. All alarm LED's and wiring shall be supervised.

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19. **ELEVATOR Wiring**

    - **FOR FIRE ALARM WIRING IN EXPOSED AREAS**: Provide type THHN insulation. Wire size shall be #14 AWG minimum. All fire alarm wiring shall be insulated. For fire alarm wiring in enclosed spaces, provide plenum rated, type FPLP, with red outer jacket. Installation shall comply with the requirements of the ADA.

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20. **ELEVATOR ROOM**

    - **WHEN PLACED INTO THE BASE**: Provide and install (5) addressable control module devices. Elevator controller shall initiate elevator recall. Provide LED type remote annunciator, positioned as shown on the drawings. The annunciator shall be flush mounted and shall be supervised for system trouble. All alarm LED's and wiring shall be supervised.

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21. **ELEVATOR WIRING**

    - **FOR FIRE ALARM WIRING IN EXPOSED AREAS**: Provide type THHN insulation. Wire size shall be #14 AWG minimum. All fire alarm wiring shall be insulated. For fire alarm wiring in enclosed spaces, provide plenum rated, type FPLP, with red outer jacket. Installation shall comply with the requirements of the ADA.

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22. **ELEVATOR SAFETY**

    - **MINIMUM HOLDING FORCE**: Minimum holding force shall be 25 pounds. Body shall be diecast with polished finish.
    - **MOUNTED TYPE**: Mounted type and shall be supervised for system trouble. All alarm LED's and wiring shall be supervised.

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23. **ELEVATOR Wiring**

    - **FOR FIRE ALARM WIRING IN EXPOSED AREAS**: Provide type THHN insulation. Wire size shall be #14 AWG minimum. All fire alarm wiring shall be insulated. For fire alarm wiring in enclosed spaces, provide plenum rated, type FPLP, with red outer jacket. Installation shall comply with the requirements of the ADA.

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24. **ELEVATOR SAFETY**

    - **MINIMUM HOLDING FORCE**: Minimum holding force shall be 25 pounds. Body shall be diecast with polished finish.
    - **MOUNTED TYPE**: Mounted type and shall be supervised for system trouble. All alarm LED's and wiring shall be supervised.

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25. **ELEVATOR Wiring**

    - **FOR FIRE ALARM WIRING IN EXPOSED AREAS**: Provide type THHN insulation. Wire size shall be #14 AWG minimum. All fire alarm wiring shall be insulated. For fire alarm wiring in enclosed spaces, provide plenum rated, type FPLP, with red outer jacket. Installation shall comply with the requirements of the ADA.
NOTES
1. **ALL EVENTS SHALL BE RECORDED AT THE FIRE ALARM CONTROL PANEL AND SHALL INDICATE TIME AND DATE OF OCCURRENCE AND**

   - FIRE ALARM SYSTEM LOW BATTERY
   - SMOKE DETECTORS SHALL BE INSTALLED IN THE SUPPLY AIR SYSTEM FOR ALL MAKE-UP AIR UNITS WITH A DESIGN OR PLENUMS.
   - SMOKE DETECTORS SHALL BE LOCATED UPSTREAM OF THE CONNECTION BETWEEN THE RETURN AIR RISER AND ANY AIR DUCTS
   - DETECTORS SHALL BE PROVIDED AND WIRED BY ELECTRICAL CONTRACTOR, INSTALLED BY MECHANICAL CONTRACTOR. DUCT SYSTEM INPUTS
   - NEW CONSTRUCTION: SURVEY SHALL BE PROVIDED AS THE BUILDING IS SUBSTANTIALLY COMPLETE (ALL WALLS, FLOORS, HARDWARE, BATTERY BACK-UP, LIGHTNING ARRESTOR, GROUND KIT AND ANY OTHER ELECTRICAL APPURTENANCES FOR A COMPLETE WORKING SYSTEM.

2. **FINAL SYSTEM DIAGRAMS SHALL BE PROVIDED BY THE MANUFACTURER FOR A COMPLETE OPERATIONAL SYSTEM. A BILL OF MANUFACTURERS QUALITY SPECIFICATIONS.**

3. **SYSTEM INPUTS**

   - ANTENNA SHALL FACE SOUTHWEST DIRECTION. ANTENNA MAST GROUNDED/BONDED TO THE BUILDING GROUND.
   - PROVIDE 120VOLT POWER AND CONTROL MODULE FOR CONTROL OF SMOKE DAMPER AT TOP OF ELEVATOR SHAFT. DAMPER HARDWARE, BATTERY BACK-UP, LIGHTNING ARRESTOR, GROUND KIT AND ANY OTHER ELECTRICAL APPURTENANCES FOR A COMPLETE WORKING SYSTEM.
   - SYSTEM OVERRIDES DIMMING SYSTEM AND LIGHTS ARE BROUGHT UP TO 100%.

4. **SYSTEM OUTPUTS**

   - CONTROL TRANSMIT FIRE ALARM SIGNAL TO SUPERVISING STATION
   - ACTUATE ELEVATOR FIRE HAT
   - ACTUATE LOCAL AUDIBLE TEMP-3 PATTERN FIRE SIGNAL
   - ACTUATE FIRE FLOOR ALARM INDICATOR
   - ACTUATE AUDIBLE SUPERVISORY SIGNAL
   - ACTUATE AUDIBLE ALARM SIGNAL

5. **FIRE ALARM RISER DIAGRAM**

   - BDA RISER DIAGRAM
   - BDA FAILURE OF BATTERY CHARGER
   - TROUBLE SUPERVISORY
   - LIST DEVICE INITIATED.

6. **BDA POWER LOSS**

   - FOR EACH GROUP OF SMOKE/FIRE DAMPERS. FACP SHALL BE PROVIDED WITH FIRE DEPARTMENT CONTROLS TO ACTIVATE
   - CONTROL WIRING TO ALL SMOKE/FIRE DAMPERS. REFER TO ELECTRICAL DRAWINGS FOR POWER WIRING REQUIREMENTS. "1" "PDA"

7. **SYSTEM TESTING**

   - SHUT DOWN ALL ASSOCIATED HVAC EQUIPMENT
   - HARDWARE, BATTERY BACK-UP, LIGHTNING ARRESTOR, GROUND KIT AND ANY OTHER ELECTRICAL APPURTENANCES FOR A COMPLETE WORKING SYSTEM.

8. **SYSTEM MAINTENANCE**

   - SYSTEM INPUTS
   - SYSTEM OUTPUTS
   - SYSTEM TESTING
   - SYSTEM MAINTENANCE

9. **SYSTEM INSTALLATION**

   - SYSTEM INPUTS
   - SYSTEM OUTPUTS
   - SYSTEM TESTING
   - SYSTEM MAINTENANCE

10. **SYSTEM OPERATION**

    - SYSTEM INPUTS
    - SYSTEM OUTPUTS
    - SYSTEM TESTING
    - SYSTEM MAINTENANCE

11. **SYSTEM ASSEMBLY**

    - SYSTEM INPUTS
    - SYSTEM OUTPUTS
    - SYSTEM TESTING
    - SYSTEM MAINTENANCE

12. **SYSTEM START-UP**

    - SYSTEM INPUTS
    - SYSTEM OUTPUTS
    - SYSTEM TESTING
    - SYSTEM MAINTENANCE

13. **SYSTEM OVERRIDES**

    - SYSTEM INPUTS
    - SYSTEM OUTPUTS
    - SYSTEM TESTING
    - SYSTEM MAINTENANCE

14. **SYSTEM TROUBLESHOOTING**

    - SYSTEM INPUTS
    - SYSTEM OUTPUTS
    - SYSTEM TESTING
    - SYSTEM MAINTENANCE

15. **SYSTEM DOCUMENTATION**

    - SYSTEM INPUTS
    - SYSTEM OUTPUTS
    - SYSTEM TESTING
    - SYSTEM MAINTENANCE

16. **SYSTEM COMMISSIONING**

    - SYSTEM INPUTS
    - SYSTEM OUTPUTS
    - SYSTEM TESTING
    - SYSTEM MAINTENANCE

17. **SYSTEM QUALITY ASSURANCE**

    - SYSTEM INPUTS
    - SYSTEM OUTPUTS
    - SYSTEM TESTING
    - SYSTEM MAINTENANCE

18. **SYSTEM PERFORMANCE**

    - SYSTEM INPUTS
    - SYSTEM OUTPUTS
    - SYSTEM TESTING
    - SYSTEM MAINTENANCE

19. **SYSTEM SAFETY**

    - SYSTEM INPUTS
    - SYSTEM OUTPUTS
    - SYSTEM TESTING
    - SYSTEM MAINTENANCE