KEYED NOTES: APPLIES TO NEW POWER PLAN ON THIS SHEET ONLY.

1. PROVIDE FINAL CONNECTION TO DOOR OPERATOR. COORDINATE FINAL CONNECTION REQUIREMENTS WITH EQUIPMENT MANUFACTURER.
2. PROVIDE FINAL CONNECTION TO BOS PANEL, COORDINATE FINAL CONNECTIONS WITH EQUIPMENT MANUFACTURER.
3. PROVIDE FINAL CONNECTION TO RECEPTACLE, LIGHT(S), AND SWITCH, COORDINATE FINAL CONNECTION REQUIREMENTS WITH EQUIPMENT MANUFACTURER.
4. PROVIDE FINAL CONNECTION TO WASH/FACIAL, COORDINATE EXACT CONNECTION REQUIREMENTS WITH EQUIPMENT MANUFACTURER.
5. PROVIDE FINAL CONNECTION TO TOILET FLUSH VALVE, COORDINATE EXACT CONNECTION REQUIREMENTS WITH EQUIPMENT MANUFACTURER.
6. PROVIDE FINAL CONNECTION TO TOILET FLUSH VALVE, COORDINATE EXACT CONNECTION REQUIREMENTS WITH EQUIPMENT MANUFACTURER.
7. PROVIDE FINAL CONNECTION TO URINARY FLUSH VALVE, COORDINATE EXACT CONNECTION REQUIREMENTS WITH EQUIPMENT MANUFACTURER.
8. PROVIDE FINAL CONNECTION TO SENSOR FAUCET, COORDINATE EXACT CONNECTION REQUIREMENTS WITH EQUIPMENT MANUFACTURER.
9. PROVIDE RACEWAY FOR DATA CONNECTION OF SYSTEMS FURNITURE.
10. PROVIDE RACEWAY FOR DATA CONNECTION OF SYSTEMS FURNITURE.

KEYED NOTES: APPLIES TO NEW POWER PLAN ON THIS SHEET ONLY.

1. PROVIDE FINAL CONNECTION TO TOILET FLUSH VALVE, COORDINATE EXACT CONNECTION REQUIREMENTS WITH EQUIPMENT MANUFACTURER.
2. PROVIDE FINAL CONNECTION TO BOS PANEL, COORDINATE FINAL CONNECTIONS WITH EQUIPMENT MANUFACTURER.
3. PROVIDE FINAL CONNECTION TO RECEPTACLE, LIGHT(S), AND SWITCH, COORDINATE FINAL CONNECTION REQUIREMENTS WITH EQUIPMENT MANUFACTURER.
4. PROVIDE FINAL CONNECTION TO WASH/FACIAL, COORDINATE EXACT CONNECTION REQUIREMENTS WITH EQUIPMENT MANUFACTURER.
5. PROVIDE FINAL CONNECTION TO TOILET FLUSH VALVE, COORDINATE EXACT CONNECTION REQUIREMENTS WITH EQUIPMENT MANUFACTURER.
6. PROVIDE FINAL CONNECTION TO TOILET FLUSH VALVE, COORDINATE EXACT CONNECTION REQUIREMENTS WITH EQUIPMENT MANUFACTURER.
7. PROVIDE FINAL CONNECTION TO URINARY FLUSH VALVE, COORDINATE EXACT CONNECTION REQUIREMENTS WITH EQUIPMENT MANUFACTURER.
8. PROVIDE FINAL CONNECTION TO SENSOR FAUCET, COORDINATE EXACT CONNECTION REQUIREMENTS WITH EQUIPMENT MANUFACTURER.
9. PROVIDE RACEWAY FOR DATA CONNECTION OF SYSTEMS FURNITURE.
10. PROVIDE RACEWAY FOR DATA CONNECTION OF SYSTEMS FURNITURE.

GENERAL DEMOLITION NOTES: APPLIES TO POWER DEMOLITION PLAN ON THIS SHEET ONLY.

1. EXISTING PANEL TO BE DEMOLISHED.
2. EXISTING PANEL TO BE DEMOLISHED.
3. EXISTING PANEL TO BE DEMOLISHED.
4. PROVIDE APPROVAL FROM OWNER AT LEAST 14 DAYS PRIOR TO INTERRUPTION.
5. ALL OPENINGS THROUGH FIRE RATED FLOORS AND PARTITIONS SHALL BE SEALED WITH FIRE RATED SEALANT IN A MANNER TO MAINTAIN THE FIRE RATING OF THE SEPARATION.
6. ALL CLEANUP SHALL BE DONE BY VACUUMING WITH HEPA-FILTERED DAN DEVICE.
7. CONTRACTOR SHALL COMPLY WITH OWNERS INFECTION CONTROL REQUIREMENTS.
8. MAINTAIN AND RESTORE IF INTERRUPTED, ALL SYSTEMS PASSING THROUGH OR SERVING OUTSIDE AREA OF WORK.
9. MAINTAIN AND RESTORE IF INTERRUPTED, ALL SYSTEMS PASSING THROUGH OR SERVING OUTSIDE AREA OF WORK.
10. WHERE OUTLETS AND BRANCH CIRCUITS ARE EXPOSED BY THE REMOVAL OF WALLS, REMOVE OUTLETS AND ASSOCIATED RACEWAYS AND WIRING BACK TO SERVING PANELBOARD.
11. WHERE EXISTING MECHANICAL EQUIPMENT IS REMOVED, ELECTRICAL WIRING, RACEWAYS, SWITCHES AND STARTERS ASSOCIATED WITH THE EQUIPMENT SHALL BE REMOVED.
12. WHEN EXISTING MECHANICAL EQUIPMENT IS REMOVED, ALL OPENINGS IN SLAB LEFT BY REMOVAL OF MATERIALS, EQUIPMENT OR APPARATUS SHALL BE FILLED WITH NEW EXHAUST FAN TO THE WALL-MOUNTED SWITCH CONTROLLING THE LIGHTS IN THIS RESTROOM.
13. MAINTAIN AND RESTORE, IF INTERRUPTED, ALL WIRING OR RACEWAYS PASSING THROUGH OR SERVING OUTSIDE THE AREA OF WORK.
14. MAINTAIN AND RESTORE IF INTERRUPTED, ALL SYSTEMS PASSING THROUGH OR SERVING OUTSIDE AREA OF WORK.
15. MAINTAIN AND RESTORE IF INTERRUPTED, ALL SYSTEMS PASSING THROUGH OR SERVING OUTSIDE AREA OF WORK.
1. ELECTRICAL 16TH FLOOR LIGHTING DEMOLITION PLAN

2. ELECTRICAL 16TH FLOOR LIGHTING PLAN

GENERAL NOTES: (APPLIES TO NEW LIGHTING PLAN ON THIS SHEET ONLY)

1. EMERGENCY LUMINAIRES AND EXIT SIGNS TO CIRCUIT 16ELB-5.
2. CONNECT ALL EMERGENCY LUMINAIRES AND EXIT SIGNS TO CIRCUIT 16ELB-5.

GENERAL NOTES: (APPLIES TO NEW LIGHTING PLAN ON THIS SHEET ONLY)

1. EMERGENCY LUMINAIRES WILL BE UNSWITCHED.
2. CONNECT ALL EMERGENCY LUMINAIRES AND EXIT SIGNS TO CIRCUIT 16ELB-5.

GENERAL NOTES:

1. ELECTRICAL 16TH FLOOR LIGHTING PLAN

2. ELECTRICAL 16TH FLOOR LIGHTING DEMOLITION PLAN

GENERAL NOTES: (APPLIES TO NEW LIGHTING PLAN ON THIS SHEET ONLY)

1. EMERGENCY LUMINAIRES AND EXIT SIGNS TO CIRCUIT 16ELB-5.
2. CONNECT ALL EMERGENCY LUMINAIRES AND EXIT SIGNS TO CIRCUIT 16ELB-5.

GENERAL NOTES:

1. ELECTRICAL 16TH FLOOR LIGHTING PLAN

2. ELECTRICAL 16TH FLOOR LIGHTING DEMOLITION PLAN

GENERAL NOTES: (APPLIES TO NEW LIGHTING PLAN ON THIS SHEET ONLY)

1. EMERGENCY LUMINAIRES AND EXIT SIGNS TO CIRCUIT 16ELB-5.
### New Panelboard "16LA" Schedule

<table>
<thead>
<tr>
<th>Load Description</th>
<th>Load</th>
<th>Phase</th>
<th>Panel</th>
<th>Wire &amp; Conduit</th>
<th>Disconnect</th>
</tr>
</thead>
<tbody>
<tr>
<td>HVAC</td>
<td>3302 VA</td>
<td>3</td>
<td>13302 VA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Designation</td>
<td>Description</td>
<td>Horsepower</td>
<td>Load</td>
<td>Voltage</td>
<td>Phase</td>
</tr>
<tr>
<td>AC-86</td>
<td>AIR HANDLING UNIT</td>
<td>2(6.5)</td>
<td>13302 VA</td>
<td>480 V</td>
<td>3</td>
</tr>
<tr>
<td>TU86-16-11</td>
<td>TERMINAL UNIT</td>
<td>-- 11000 VA</td>
<td>480 V</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>TU86-16-9</td>
<td>TERMINAL UNIT</td>
<td>-- 6000 VA</td>
<td>480 V</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>TU86-16-7</td>
<td>TERMINAL UNIT</td>
<td>-- 2000 VA</td>
<td>480 V</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>TU86-16-6</td>
<td>TERMINAL UNIT</td>
<td>-- 7000 VA</td>
<td>480 V</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>TU86-16-3</td>
<td>TERMINAL UNIT</td>
<td>-- 6000 VA</td>
<td>480 V</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>TU86-16-2</td>
<td>TERMINAL UNIT</td>
<td>-- 5000 VA</td>
<td>480 V</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>TU86-16-1</td>
<td>TERMINAL UNIT</td>
<td>-- 2000 VA</td>
<td>480 V</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

### Existing Panelboard "16NHA" Schedule

<table>
<thead>
<tr>
<th>Load Description</th>
<th>Load</th>
<th>Phase</th>
<th>Panel</th>
<th>Wire &amp; Conduit</th>
<th>Disconnect</th>
</tr>
</thead>
<tbody>
<tr>
<td>HVAC</td>
<td>3302 VA</td>
<td>3</td>
<td>13302 VA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Designation</td>
<td>Description</td>
<td>Horsepower</td>
<td>Load</td>
<td>Voltage</td>
<td>Phase</td>
</tr>
<tr>
<td>AC-86</td>
<td>AIR HANDLING UNIT</td>
<td>2(6.5)</td>
<td>13302 VA</td>
<td>480 V</td>
<td>3</td>
</tr>
<tr>
<td>TU86-16-11</td>
<td>TERMINAL UNIT</td>
<td>-- 11000 VA</td>
<td>480 V</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>TU86-16-9</td>
<td>TERMINAL UNIT</td>
<td>-- 6000 VA</td>
<td>480 V</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>TU86-16-7</td>
<td>TERMINAL UNIT</td>
<td>-- 2000 VA</td>
<td>480 V</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>TU86-16-6</td>
<td>TERMINAL UNIT</td>
<td>-- 7000 VA</td>
<td>480 V</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>TU86-16-3</td>
<td>TERMINAL UNIT</td>
<td>-- 6000 VA</td>
<td>480 V</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>TU86-16-2</td>
<td>TERMINAL UNIT</td>
<td>-- 5000 VA</td>
<td>480 V</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>TU86-16-1</td>
<td>TERMINAL UNIT</td>
<td>-- 2000 VA</td>
<td>480 V</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

### Existing Panelboard "16ELBA" Schedule

<table>
<thead>
<tr>
<th>Load Description</th>
<th>Load</th>
<th>Phase</th>
<th>Panel</th>
<th>Wire &amp; Conduit</th>
<th>Disconnect</th>
</tr>
</thead>
<tbody>
<tr>
<td>HVAC</td>
<td>3302 VA</td>
<td>3</td>
<td>13302 VA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Designation</td>
<td>Description</td>
<td>Horsepower</td>
<td>Load</td>
<td>Voltage</td>
<td>Phase</td>
</tr>
<tr>
<td>AC-86</td>
<td>AIR HANDLING UNIT</td>
<td>2(6.5)</td>
<td>13302 VA</td>
<td>480 V</td>
<td>3</td>
</tr>
<tr>
<td>TU86-16-11</td>
<td>TERMINAL UNIT</td>
<td>-- 11000 VA</td>
<td>480 V</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>TU86-16-9</td>
<td>TERMINAL UNIT</td>
<td>-- 6000 VA</td>
<td>480 V</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>TU86-16-7</td>
<td>TERMINAL UNIT</td>
<td>-- 2000 VA</td>
<td>480 V</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>TU86-16-6</td>
<td>TERMINAL UNIT</td>
<td>-- 7000 VA</td>
<td>480 V</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>TU86-16-3</td>
<td>TERMINAL UNIT</td>
<td>-- 6000 VA</td>
<td>480 V</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>TU86-16-2</td>
<td>TERMINAL UNIT</td>
<td>-- 5000 VA</td>
<td>480 V</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>TU86-16-1</td>
<td>TERMINAL UNIT</td>
<td>-- 2000 VA</td>
<td>480 V</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

### Electrical Schedules

- **New Panelboard "16LA" Schedule**
- **Existing Panelboard "16NHA" Schedule**
- **Existing Panelboard "16ELBA" Schedule**
**LUMINAIRE SCHEDULE**

<table>
<thead>
<tr>
<th>TYPE</th>
<th>MANUFACTURER</th>
<th>SERIES</th>
<th>LAMP TYPE</th>
<th>VOLTAGE/DESIGN</th>
<th>WATTAGE</th>
<th>MOUNTING METHOD</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>41</td>
<td>L2</td>
<td>K1</td>
<td>MIN. 60M</td>
<td>UNIVERSAL (120/277)</td>
<td>12W</td>
<td>RECESSED, CEILING</td>
<td>4' LINEAR FLAT PROFILE RECESSED LED FIXTURE WITH OPAL COVER LENS. PROVIDE WITH STANDARD 0-10V DIMMING DRIVER DOWN TO 1%.</td>
</tr>
<tr>
<td>42</td>
<td>L1</td>
<td>K2</td>
<td>MIN. 30M</td>
<td>UNIVERSAL (120/277)</td>
<td>11W</td>
<td>RECESSED, CEILING</td>
<td>6&quot; CYLINDER PENDANT ACCENT LIGHT. FINISH AND SHADE COLOR PER ARCHITECT.</td>
</tr>
<tr>
<td>43</td>
<td>L1</td>
<td>K1E</td>
<td>MIN. 60M</td>
<td>UNIVERSAL (120/277)</td>
<td>12W</td>
<td>SURFACE, WALL</td>
<td>25&quot; SQUARE RECTILINEAR DECORATIVE LED WALL SCONCE. FINISH PER ARCHITECT.</td>
</tr>
<tr>
<td>44</td>
<td>L1</td>
<td>L1E</td>
<td>MIN. 60M</td>
<td>UNIVERSAL (120/277)</td>
<td>12W</td>
<td>SURFACE, WALL</td>
<td>25&quot; SQUARE RECTILINEAR DECORATIVE LED WALL SCONCE. FINISH PER ARCHITECT.</td>
</tr>
<tr>
<td>45</td>
<td>L2</td>
<td>L2E</td>
<td>MIN. 60M</td>
<td>UNIVERSAL (120/277)</td>
<td>12W</td>
<td>SURFACE, WALL</td>
<td>25&quot; SQUARE RECTILINEAR DECORATIVE LED WALL SCONCE. FINISH PER ARCHITECT.</td>
</tr>
<tr>
<td>46</td>
<td>L2</td>
<td>L1E</td>
<td>MIN. 60M</td>
<td>UNIVERSAL (120/277)</td>
<td>12W</td>
<td>SURFACE, WALL</td>
<td>25&quot; SQUARE RECTILINEAR DECORATIVE LED WALL SCONCE. FINISH PER ARCHITECT.</td>
</tr>
<tr>
<td>47</td>
<td>L2</td>
<td>L2E</td>
<td>MIN. 60M</td>
<td>UNIVERSAL (120/277)</td>
<td>12W</td>
<td>SURFACE, WALL</td>
<td>25&quot; SQUARE RECTILINEAR DECORATIVE LED WALL SCONCE. FINISH PER ARCHITECT.</td>
</tr>
<tr>
<td>48</td>
<td>L2</td>
<td>L1E</td>
<td>MIN. 60M</td>
<td>UNIVERSAL (120/277)</td>
<td>12W</td>
<td>SURFACE, WALL</td>
<td>25&quot; SQUARE RECTILINEAR DECORATIVE LED WALL SCONCE. FINISH PER ARCHITECT.</td>
</tr>
<tr>
<td>49</td>
<td>L2</td>
<td>L2E</td>
<td>MIN. 60M</td>
<td>UNIVERSAL (120/277)</td>
<td>12W</td>
<td>SURFACE, WALL</td>
<td>25&quot; SQUARE RECTILINEAR DECORATIVE LED WALL SCONCE. FINISH PER ARCHITECT.</td>
</tr>
</tbody>
</table>

**GENERAL NOTES:**

1. ELECTRICAL EQUIPMENT SHOWN IS EXISTING, UNLESS INDICATED OTHERWISE.
2. DASHED FEEDER LINES INDICATE EXISTING FEEDERS.

---

**FLOOR 16 PARTIAL RISER DIAGRAM**
FIRE ALARM NOTES:

1. FIRE ALARM SYSTEM DESIGN INTENT IS TO MODIFY EXISTING FIRE ALARM SYSTEM.
2. SYSTEM INSTALLATION SHALL COMPLY WITH NFPA 70 AND NFPA 72.
3. THE FIRE ALARM WORK SHALL BE PERFORMED BY A FACTORY AUTHORIZED DISTRIBUTOR.
4. THE BUILDING ENGINEER SHALL BE ADVISED BEFORE EXISTING FIRE ALARM SYSTEM ARE TAKEN OUT OF SERVICE FOR TENANT IMPROVEMENTS. INTERRUPTION TO EXISTING FIRE ALARM SYSTEM SHALL BE MINIMIZED.
5. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID, PURCHASE, AND INSTALLATION OF WORK.
6. THE FIRE ALARM SYSTEM IS A PRODUCT OF EDWARD SYSTEM TECHNOLOGY. ALL NEW EQUIPMENTS AND DEVICES SHALL MATCH EXISTING.
7. EXTEND THE EXISTING NOTIFICATION APPLIANCE CIRCUITS INTO THE NEW WORK AREAS AND INSTALL NEW SPEAKERS AND STROBE LIGHTS, MAINTAIN SUPERVISION.
8. CONFIRM BY FIELD MEASUREMENT OR REFERENCE TO EXISTING FIRE ALARM SHOP DRAWINGS THAT SUFFICIENT CAPACITY IS AVAILABLE IN THE CIRCUIT TO POWER THE NEW DEVICES, OTHERWISE PROVIDE A NEW POWER SUPPLY.
9. THE FIRE ALARM OPERATING SEQUENCE SHALL REMAIN UNCHANGED.
10. UPON COMPLETION OF THE WORK TEST THE FIRE ALARM SYSTEM, METHODS AND TESTING OF FIRE SYSTEM SHALL BE CONDUCTED IN ACCORDANCE WITH NFPA 72.
DEMOILISH ALL EXISTING FIRE ALARM DEVICES AND WIRING J-BOXES. PROVIDE NEW PER NFPA 72-2016.
1. **SPRINKLER SYSTEM DESIGN INTENT IS TO MODIFY EXISTING SPRINKLER SYSTEM PER NFPA 13-2016.**
2. **REMOVE ALL EXISTING FIRE PROTECTION HEADS, PIPING AND PROVIDE NEW PER NFPA 13-2016 EXISTING STANDPIPE AND VALVE TO REMAIN.**
3. **EXISTING SPRINKLER CONTROL VALVE, WATERFLOW AND FLOW SWITCH TO REMAIN.**
4. **THE BUILDING ENGINEER SHALL BE ADVISED BEFORE EXISTING SPRINKLER SYSTEM ARE TAKEN OUT OF SERVICE FOR TENANT IMPROVEMENTS. INTERRUPTION TO EXISTING SPRINKLER SYSTEM SHALL BE MINIMIZED.**
5. **EXISTING SPRINKLER CONTROL VALVE, WATERFLOW AND FLOW SWITCH TO REMAIN.**
6. **THE BUILDING ENGINEER SHALL BE ADVISED BEFORE EXISTING SPRINKLER SYSTEM ARE TAKEN OUT OF SERVICE FOR TENANT IMPROVEMENTS. INTERRUPTION TO EXISTING SPRINKLER SYSTEM SHALL BE MINIMIZED.**
7. **EXISTING SPRINKLER CONTROL VALVE, WATERFLOW AND FLOW SWITCH TO REMAIN.**
8. **THE BUILDING ENGINEER SHALL BE ADVISED BEFORE EXISTING SPRINKLER SYSTEM ARE TAKEN OUT OF SERVICE FOR TENANT IMPROVEMENTS. INTERRUPTION TO EXISTING SPRINKLER SYSTEM SHALL BE MINIMIZED.**
9. **EXISTING SPRINKLER CONTROL VALVE, WATERFLOW AND FLOW SWITCH TO REMAIN.**
10. **THE BUILDING ENGINEER SHALL BE ADVISED BEFORE EXISTING SPRINKLER SYSTEM ARE TAKEN OUT OF SERVICE FOR TENANT IMPROVEMENTS. INTERRUPTION TO EXISTING SPRINKLER SYSTEM SHALL BE MINIMIZED.**
11. **EXISTING SPRINKLER CONTROL VALVE, WATERFLOW AND FLOW SWITCH TO REMAIN.**
12. **THE BUILDING ENGINEER SHALL BE ADVISED BEFORE EXISTING SPRINKLER SYSTEM ARE TAKEN OUT OF SERVICE FOR TENANT IMPROVEMENTS. INTERRUPTION TO EXISTING SPRINKLER SYSTEM SHALL BE MINIMIZED.**
13. **EXISTING SPRINKLER CONTROL VALVE, WATERFLOW AND FLOW SWITCH TO REMAIN.**
14. **THE BUILDING ENGINEER SHALL BE ADVISED BEFORE EXISTING SPRINKLER SYSTEM ARE TAKEN OUT OF SERVICE FOR TENANT IMPROVEMENTS. INTERRUPTION TO EXISTING SPRINKLER SYSTEM SHALL BE MINIMIZED.**
15. **EXISTING SPRINKLER CONTROL VALVE, WATERFLOW AND FLOW SWITCH TO REMAIN.**
16. **THE BUILDING ENGINEER SHALL BE ADVISED BEFORE EXISTING SPRINKLER SYSTEM ARE TAKEN OUT OF SERVICE FOR TENANT IMPROVEMENTS. INTERRUPTION TO EXISTING SPRINKLER SYSTEM SHALL BE MINIMIZED.**
17. **EXISTING SPRINKLER CONTROL VALVE, WATERFLOW AND FLOW SWITCH TO REMAIN.**
18. **THE BUILDING ENGINEER SHALL BE ADVISED BEFORE EXISTING SPRINKLER SYSTEM ARE TAKEN OUT OF SERVICE FOR TENANT IMPROVEMENTS. INTERRUPTION TO EXISTING SPRINKLER SYSTEM SHALL BE MINIMIZED.**
19. **EXISTING SPRINKLER CONTROL VALVE, WATERFLOW AND FLOW SWITCH TO REMAIN.**
20. **THE BUILDING ENGINEER SHALL BE ADVISED BEFORE EXISTING SPRINKLER SYSTEM ARE TAKEN OUT OF SERVICE FOR TENANT IMPROVEMENTS. INTERRUPTION TO EXISTING SPRINKLER SYSTEM SHALL BE MINIMIZED.**
DEMOLOISH ALL SPRINKLER HEADS, SPRINKLER PIPES STANDPIPE TO REMAIN

LOCKERS 14
OFFICE 6
COMPUTER STATIONS 7
BREAKOUT 2
BREAKOUT 1
UNISEX RR 11
MEN'S RR 12
ELEVATOR LOBBY 15
WOMEN'S RR 13
LOUNGE 16
STOR. 17

DEMOLOISH ALL SPRINKLER HEADS, SPRINKLER PIPES STANDPIPE TO REMAIN

This drawing is an instrument of service and shall remain the property of the architect. No part of this document shall be reproduced or transmitted in any form, electronically or mechanically, for any purpose, without the express written permission of the architect.
**EXISTING SYSTEM TAB KEY NOTES:**

1. Before starting demolition, the contractor shall measure existing exhaust airflow and static pressure at the noted locations to allow the readjustment of the existing areas at the end of the renovation work. Submit a report of all readings to the scheduler for review.

**KEYED NOTES: (THIS PART PLAN ONLY)**

1. DEMOLISH STEAM CONVECTOR AND ASSOCIATED PIPING BACK TO MAIN IN-WALL EXHAUST SYSTEM WITH IN.S OF FREE COLD.
2. DEMOLISH RELIEF GRILLE, DUCTWORK AND ASSOCIATED CONTROL.
   - INFILL WALL OPENING
3. DEMOLISH UNIT HEATER AND ASSOCIATED CONTROL.
   - INFILL WALL OPENING
4. DEMOLISH RETURN BOX, GRILLE, DAMPER AND ASSOCIATED DUCTWORK.
   - INFILL WALL OPENING
5. DEMOLISH UNIT HEATER AND ASSOCIATED CONTROL.
   - INFILL WALL OPENING
6. DEMOLISH LOUVER AND ASSOCIATED BOX.
   - INFILL WALL OPENING
7. DEMOLISH AIR HANDLING UNIT AND ASSOCIATED CONTROL.
   - INFILL WALL OPENING
8. DEMOLISH VAV BOX, GRILLE, DAMPER AND ASSOCIATED DUCTWORK.
   - INFILL WALL OPENING
9. DEMOLISH UNIT HEATER AND ASSOCIATED CONTROL.
   - INFILL WALL OPENING
10. DEMOLISH EXHAUST FAN EF1-2, DUCTWORK AND ASSOCIATED CONTROL.

**KEYED NOTES: (THIS PART PLAN ONLY)**

1. DEMOLISH EXHAUST FAN AS NECESSARY TO COORDINATE WITH NEW WORK.
KEYED NOTES: (THIS PART PLAN ONLY)

1. DEMOLISH STEAM CONVECTOR AND ASSOCIATED PIPING BACK TO MAIN.
   INFILL FLOOR OPENING FLUSH WITH SLAB.
2. DEMOLISH FLOOR-MOUNTED FAN-COE SYSTEM AND ASSOCIATED PIPING.
   INFILL WALL OPENING.
3. DEMOLISH AIR HANDLING UNIT AND ASSOCIATED PIPING.
### NOTES

1. **TYPE:**

2. **DESIGN CONDITIONS:**

   - **CEILING EXHAUST GRILLE**
   - **CEILING SUPPLY DIFFUSER**

3. **MARK E1 S2 S1 AC-86 NO.**

4. **NO.**

5. **EF1 NO.**

6. **MARK E1 S2 S1 AC-86 NO.**

7. **10,000 CFM**

8. **25' 25' 25'**

9. **50% RH 74°F WB**

10. **13 41 Watts**

11. **TU86-16-9 TU86-16-8 TU86-16-7 TU86-16-6 TU86-16-5 TU86-16-3 TU86-16-1**

12. **8.**

13. **7.**

14. **6.**

15. **5.**

16. **4.**

17. **3.**

18. **2.**

19. **1.**

### TERMINAL UNIT SCHEDULE

<table>
<thead>
<tr>
<th>NO.</th>
<th>TYPE</th>
<th>MAXIMUM CFM</th>
<th>MINIMUM CFM</th>
<th>CAPACITY RATING</th>
<th>MAXIMUM DESENSITIZATION RATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>10,000</td>
<td>214</td>
<td>885</td>
<td>205</td>
<td>290</td>
</tr>
<tr>
<td>2</td>
<td>10,000</td>
<td>214</td>
<td>885</td>
<td>205</td>
<td>290</td>
</tr>
<tr>
<td>3</td>
<td>10,000</td>
<td>214</td>
<td>885</td>
<td>205</td>
<td>290</td>
</tr>
<tr>
<td>4</td>
<td>10,000</td>
<td>214</td>
<td>885</td>
<td>205</td>
<td>290</td>
</tr>
<tr>
<td>5</td>
<td>10,000</td>
<td>214</td>
<td>885</td>
<td>205</td>
<td>290</td>
</tr>
<tr>
<td>6</td>
<td>10,000</td>
<td>214</td>
<td>885</td>
<td>205</td>
<td>290</td>
</tr>
<tr>
<td>7</td>
<td>10,000</td>
<td>214</td>
<td>885</td>
<td>205</td>
<td>290</td>
</tr>
<tr>
<td>8</td>
<td>10,000</td>
<td>214</td>
<td>885</td>
<td>205</td>
<td>290</td>
</tr>
<tr>
<td>9</td>
<td>10,000</td>
<td>214</td>
<td>885</td>
<td>205</td>
<td>290</td>
</tr>
<tr>
<td>10</td>
<td>10,000</td>
<td>214</td>
<td>885</td>
<td>205</td>
<td>290</td>
</tr>
<tr>
<td>11</td>
<td>10,000</td>
<td>214</td>
<td>885</td>
<td>205</td>
<td>290</td>
</tr>
<tr>
<td>12</td>
<td>10,000</td>
<td>214</td>
<td>885</td>
<td>205</td>
<td>290</td>
</tr>
<tr>
<td>13</td>
<td>10,000</td>
<td>214</td>
<td>885</td>
<td>205</td>
<td>290</td>
</tr>
<tr>
<td>14</td>
<td>10,000</td>
<td>214</td>
<td>885</td>
<td>205</td>
<td>290</td>
</tr>
</tbody>
</table>

### AIR DISTRIBUTION SCHEDULE

<table>
<thead>
<tr>
<th>MAIN</th>
<th>TYPE</th>
<th>DESCRIPTION</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>FLUID-MIXED DIFFUSER</td>
<td>MIXED WITH (1) 1&quot; BLOTS</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>CEILING SUPPLY DIFFUSER</td>
<td>VERTICAL DIFFUSER</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>CEILING RETURN DIFFUSER</td>
<td>VERTICAL DIFFUSER</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>EXTRACT DIFFUSER</td>
<td>VERTICAL DIFFUSER</td>
<td></td>
</tr>
</tbody>
</table>
**COIL, TYPICAL**

**NOTES:**
1. COIL CONNECTIONS SHALL BE ARRANGED TO ACCOMMODATE COIL PULL AND TO ISOLATE COILS FROM PIPING SYSTEM.
2. 3" MINIMUM RETURN LEG IS NOT REQUIRED EXCEPT IN RESIDUAL APPLICATIONS.
3. DRAIN FANS MUST BE ATTACHED TO COOL.
4. TWO COIL SECTION ARE SHOWN; PROVIDE INDIVIDUAL STEAM LINE, STEAM TRAP.
5. DRAINAGE AND ISOLATION DEVICES FOR EACH COIL SECTION PROVIDED.
6. DELETE INDIVIDUAL COIL ISOLATION VALVES IN SINGLE COIL APPLICATION.
7. COIL CONNECTION PIPE SIZES SHALL BE EQUAL TO THE STEAM AND LPC MAIN SIZES.

---

**WATER COILS WITH 2-WAY VALVES IN AHUs**

**NOTES:**
1. DRAINAGE SHALL BE FULL SIZE OF DRAIN CONNECTION.
2. DRAIN PIPING IN AS INDUCED IN THE DRAWINGS OR TO THE NEAREST PROJECT DRAIN.
3. DRAIN PIPING IS SUPPORTED AND ISOLATED FROM DUCTS WITH THREADS OF DRIP CUPS.
4. DELETE INDIVIDUAL COIL ISOLATION VALVES IN SINGLE COIL APPLICATION.

---

**STEAM DRIP ASSEMBLY**

**NOTES:**
1. DRAINAGE SHALL BE FULL SIZE OF DRAIN CONNECTION.
2. DRAIN PIPING IN AS INDUCED IN THE DRAWINGS OR TO THE NEAREST PROJECT DRAIN.
3. DRAIN PIPING IS SUPPORTED AND ISOLATED FROM DUCTS WITH THREADS OF DRIP CUPS.
**NOTE 1**

FOR ROUND TAKEOFF CONNECTIONS TO ROUND OR FLAT OVAL PRIMARY SUPPLY FOR AIR HANDLING SYSTEMS WHERE THE PRIMARY SUPPLY DUCT PLAN AND ELEVATIONS

1. DUCTWORK INSTALLATION AND COORDINATION

- **AC-86 LEFT ELEVATION**
- **AC-86 PLAN VIEW**
- **AC-86 RIGHT ELEVATION**

2. **DUCT WALL PENETRATIONS WITH FIRE DAMPER**

- **TERMINAL UNIT INLET**
  - **TERMINAL UNIT INLET**
  - **ENTRY DUCT (NOTE 1)**
  - **TRANSITION**
  - **RUNOUT DUCT note 2**
  - **SIDE TAKEOFF FITTING (NOTES 3 & 4)**

3. **TERMINAL UNIT INLET**

- **NOTE 2**
  - ENTRY DUCT SHALL MATCH INLET COLLAR SIZE. BE INDEPENDENTLY SUPPORTED FROM THE TERMINAL UNIT. INLET DUCT SHALL HAVE A TOTAL LENGTH THAT IS 1.5 TIMES THE DIAMETER OR WIDTH OF THE INLET COLLAR SIZE.

- **NOTE 3**
  - FOR ROUND TAKEOFF CONNECTIONS TO ROUND OR FLAT OVAL PRIMARY SUPPLY DUCTS PROVIDE A CONICAL TAP RADIUS OF A SIDE TAKEOFF FITTING COMPLIES WITH THE REQUIREMENTS.

- **NOTE 4**
  - INSTALL DAMPERS IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.

- **NOTE 5**
  - INSTALL ALL JUNCTIONS BETWEEN WALLS AND TERMINAL UNITS.
2. WHERE FAILURE MODE IS INDICATED, THE INDICATED POSITION SHALL OCCUR ON FAILURE OF THE BCS CONTROLLER OR ITS OUTPUT FOR ANY REASON.

1. FAILURE MODE

NOTES:

OA TEMPERATURE
SUPPLY DUCT STATIC PRESSURE
FILTER DIFFERENTIAL PRESSURE
FREEZESTAT
SYSTEM DISCHARGE AIR TEMPERATURE

3. LOCATE OUTSIDE AIR TEMPERATURE SENSOR ON A NORTH FACING WALL OUT OF DIRECT SUNLIGHT.


THE CONTROLS FOR SYSTEM AC-86 SERVING 16TH FLOORS SHALL FUNCTION AS FOLLOWING:

THE SYSTEM SHALL AUTOMATICALLY STARTED AND STOPPED BY THE BCS CONTROLLER WHENEVER THE HAND-OFF-AUTOMATIC SWITCH IS IN THE AUTOMATIC POSITION, AND MANUALLY STARTED AND STOPPED BY THE HAND POSITION.

SEQUENCE OF OPERATION:

1. ON A DROP IN SPACE TEMPERATURE BELOW COOLING SETPOINT, EACH TERMINAL UNIT CONTROLLER SHALL MODULATE THE PRIMARY AIR VALVE TO THE MINIMUM FLOW.

2. IF THE SPACE TEMPERATURE FALLS THROUGH THE 5°F SPACE TEMPERATURE DEADBAND TO THE HEATING SETPOINT, THE TERMINAL UNIT CONTROLLER SHALL MODULATE THE PRIMARY AIR VALVE BETWEEN THE MINIMUM AND MAXIMUM HEATING FLOWS TO THE MAXIMUM HEATING FLOW AND MODULATE THE ELECTRIC HEATING COIL IN PARALLEL TO MAINTAIN THE HEATING SPACE TEMPERATURE SETPOINT.

NOTES:

1. FAILURE MODE: O - ON OR OPEN, C - OFF OR CLOSE, L - LAST COMMAND

2. TERMINAL UNIT CONTROLLERS AND INTERFACES SHALL BE ARRANGED SO THAT EQUIPMENT CONTROLLED BY THE BCS OPERATES AS INDICATED ON FAILURE OF THE TERMINAL UNIT CONTROLLER FOR ANY REASON, INCLUDING LOGIC POWER SUPPLY FAILURE, OPERATIONAL INTERLOCKS SHALL REMAIN IN EFFECT.

3. PROVIDE TERMINAL UNIT BCS CONTROLLER WITH IDENTICAL CONTROL POINTS AND FUNCTIONS FOR EACH TERMINAL UNIT.
PLUMBING LEGEND

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>ABBR.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>RW</td>
<td>ABOVE FLOOR OR GRADE</td>
<td></td>
</tr>
<tr>
<td>AWF</td>
<td>ABOVE FINISHED FLOOR/GRADED FLOOR</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>FLOOR DRAIN</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>BELOW FLOOR</td>
<td></td>
</tr>
<tr>
<td>N</td>
<td>HUB DRAIN</td>
<td></td>
</tr>
<tr>
<td>S/W</td>
<td>SOIL (S) OR WASTE (W) BELOW FLOOR OR GRADE</td>
<td></td>
</tr>
<tr>
<td>S/G</td>
<td>SOIL (S) OR WASTE (W) ABOVE FLOOR OR GRADE</td>
<td></td>
</tr>
<tr>
<td>COL</td>
<td>COLUMN</td>
<td></td>
</tr>
<tr>
<td>ENG</td>
<td>ENGINEERING</td>
<td></td>
</tr>
<tr>
<td>CON</td>
<td>CONCRETE</td>
<td></td>
</tr>
<tr>
<td>OPC</td>
<td>OVERFLOW</td>
<td></td>
</tr>
<tr>
<td>TF</td>
<td>TRAP FILL</td>
<td></td>
</tr>
</tbody>
</table>

PLUMBING RENOVATION NOTES

Throughout the renovation scope and period, note the following references to demolition and new work:

1. These drawings do not purport to indicate all existing conditions.
2. Where available, existing plumbing piping that requires a connection, demolition or modification, shall be redlined in the field before commencing work. Contract documents or all redlined drawings were requisitioned to indicate existing pipe sizes.
3. Existing plumbing piping that requires demolition shall be removed from the site, unless otherwise noted. Existing plumbing piping in existing handrails shall not be abandoned in place.
4. Where the existing structure or surrounding interior is damaged during this construction, the contractor shall be responsible for repairing damages to match existing finished conditions.
5. Unless otherwise noted, plumbing equipment rendered useless shall be removed from the site.
6. Where required, domestic water piping shall be insulated, including existing insulated domestic water piping that requires insulation.
7. Plumbing piping systems shall be labeled complete with pipe identification and flow arrows, including existing unlabeled plumbing systems. Ensure proper direction of flow for piping below floor."
PLUMBING 16TH FLOOR PRESSURE DEMOLITION PLAN

GENERAL NOTES:
1. FIELD VERIFY WATER PRESSURE AT WC ELEVATION. FLUSH VALVE REQUIRES A MINIMUM OF 32 PSI TO OPERATE.
2. TO ALLOW FLOW THROUGH NEW HW LOOP, ADJUSTMENT TO EX-HW SYSTEM MAY BE REQUIRED.

PLUMBING 16TH FLOOR PRESSURE PLAN

GENERAL NOTES:
1. FIELD VERIFY WATER PRESSURE AT WC ELEVATION. FLUSH VALVE REQUIRES A MINIMUM OF 32 PSI TO OPERATE.
2. TO ALLOW FLOW THROUGH NEW HW LOOP, ADJUSTMENT TO EX-HW SYSTEM MAY BE REQUIRED.