STUDENT
DORMITORY
BUILDING 3
FOR THE
UNIVERSITY OF MARYLAND
AT THE
BALTIMORE COUNTY CAMPUS
CATONSVILLE, MARYLAND

DEPARTMENT OF GENERAL SERVICES
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JOHN A. LUETKEMEYER-TREASURER

SCHEDULE OF DRAWINGS

ARCHITECTURAL
A-1 SITE PLAN C BORING DATA
A-2 KEY FLOOR PLANS
A-3 LONG WING -GROUND & FIRST FLOOR PLAN
A-4 LONG WING -2nd, 3rd, & ROOF PLANS
A-5 SHORT WING -GROUND & FIRST FL. PLANS
A-6 SHORT WING -2nd, 3rd, & ROOF PLANS
A-7 ELEVATIONS
A-8 SCHEDULES
A-9 W.L. SECTIONS
A-10 MAIN LOBBY PLAN & DETAILS
A-11 LOBBY EL ELEVATIONS & DETAILS
A-12 TYPICAL STUDENT ROOM & DETAILS
A-13 MISCELLANEOUS DETAILS & ELEVATIONS
A-14 STAIR SECTIONS & DETAILS
A-15 TYPICAL 2 FL. TRANSFORMER VAULT DETAILS

MECHANICAL
A-0 COVER SHEET
O-1 OUTSIDE UTILITIES
O-2 LONG WING -GROUND FLOOR PLUMB)
O-3 LONG WING -2nd, 3rd FLOOR PLUMB.)
O-4 SHORT WING -GROUND & FIRST FL. PLUMBING
O-5 SHORT WING -2nd, 3rd & ROOF PLUMB.
O-6 DETAILS - PLUMBING
O-7 BATH ROOM DETAILS - PLUMBING
O-8 S.O.I. PLUMBING
O-9 WATER'S TANKER PLUMB. & RISER DIAGRAMS PLUMB.

STRUCTURAL
S-1 LONG WING -GROUND 1ST FL. FLOOR FRAMING
S-2 LONG WING -2nd, 3rd FLOOR FRAMING
S-3 SHORT WING -GROUND 1ST FL. FLOOR FRAMING
S-4 SHORT WING -2nd, 3rd & 5th FLOOR FRAMING
S-5 SECTION S & DETAILS
S-6 DESIGN DATA, SCHEDULES & DETAILS

ELECTRICAL
E-1 SITE PLAN & RISER DIAGRAMS
E-2 LONG WING -GROUND & FIRST FLOOR ELECTRICAL
E-3 LONG WING -2nd, 3rd FLOOR ELECTRICAL
E-4 LONG WING -GROUND 1ST FLOOR ELECTRICAL
E-5 SHORT WING -GROUND & FIRST FLOOR ELECTRICAL
E-6 SHORT WING -2nd, 3rd & ROOF ELECTRICAL
E-7 SHORT WING -GROUND 1ST FLOOR ELECTRICAL

VICINITY MAP

Baltimore City
SITE PLAN - RELOCATION OF DUCTBANK

SCALE 1" = 40'-0"
HVAC RENOVATIONS TO PATAPSCO HALL

UMBC
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UMBC CS2003-1736-F
RENOVATIONS TO PATAPSCO HALL

UMBC

AN HONORS UNIVERSITY IN MARYLAND

UMBC CS2003-1736-E

LIST OF DRAWINGS

MECHANICAL
1. MAIN FLOOR PLAN - EXISTING
2. FIRST FLOOR PLAN - EXISTING
3. SECOND FLOOR PLAN - EXISTING
4. THIRD FLOOR PLAN - EXISTING

ELECTRICAL
1. ELECTRICAL SYMBOLS AND DESIGNATIONS
2. MAIN FLOOR PLAN - NEW WORK
3. FIRST FLOOR PLAN - NEW WORK
4. SECOND FLOOR PLAN - NEW WORK
5. THIRD FLOOR PLAN - NEW WORK
### HVAC Duct Construction Schedule

**Duct Pressure Class Requirements**

<table>
<thead>
<tr>
<th>System</th>
<th>Duct Sizes (inches)</th>
<th>Pressure Class (inches W.C.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply</td>
<td>2&quot; to 32&quot;</td>
<td>2.0</td>
</tr>
<tr>
<td>Return</td>
<td>2&quot; to 32&quot;</td>
<td>2.0</td>
</tr>
<tr>
<td>Static</td>
<td>2&quot; to 32&quot;</td>
<td>2.0</td>
</tr>
</tbody>
</table>

**Minimum Rectangular Duct Construction Requirements**

<table>
<thead>
<tr>
<th>Material</th>
<th>Minimum Thickness (inches)</th>
<th>Maximum Length (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum</td>
<td>0.04</td>
<td>500</td>
</tr>
<tr>
<td>Insulation</td>
<td>0.03</td>
<td>240</td>
</tr>
</tbody>
</table>

**Duct Air Leakage Requirements**

<table>
<thead>
<tr>
<th>Pressure Class (inches W.C.)</th>
<th>Leakage Rate (cfm/ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.0</td>
<td>1.0</td>
</tr>
</tbody>
</table>

### MISC Equipment Schedule

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>A/C</td>
<td>Air Conditioner</td>
<td>3</td>
</tr>
<tr>
<td>Duct</td>
<td>Supply Duct</td>
<td>4</td>
</tr>
<tr>
<td>VAV</td>
<td>Variable Air Volume</td>
<td>2</td>
</tr>
</tbody>
</table>

### Fan Coil Unit Schedule

**Typical Fan Coil Unit Schedules**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Capacity (BTU/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FCU-1</td>
<td>Residential</td>
<td>50,000</td>
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<tr>
<td>FCU-2</td>
<td>Commercial</td>
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### Mechanical Symbols and Abbreviations

- **AC** Air Conditioner
- **DHW** Domestic Hot Water
- **EVAP** Evaporator Cooling
- **FAN** Fan
- **HEAT** Heating
- **HRU** Heat Recovery Unit
- **MVR** Manual Valve
- **Piping** Piping Diagram
- **WHT** Water Heaters

### Sound Attenuator Schedule

<table>
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<tr>
<th>Item</th>
<th>Description</th>
<th>Rating (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Return</td>
<td>Return Duct</td>
<td>25</td>
</tr>
<tr>
<td>Static</td>
<td>Static Duct</td>
<td>15</td>
</tr>
</tbody>
</table>

**Notes:**
- Item 1: Rated for 50% and 75% efficiency at 1.0 and 2.5 times rated capacity.
- Item 2: Rated for 1.0 and 2.5 times rated capacity.
- Item 3: Rated for 1.0 times rated capacity.

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**TYPICAL AIR DEVICES**

- **Single Zone**
- **Ducted System**
- **Whole House**
- **High Efficiency**

**FAN COIL UNIT SCHEDULE**

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