**GENERAL NOTES**

1. All electrical conduit to be plastic conduit unless otherwise specified.
2. All power shall be single phase 120/208 volt, 60 cycle, 3-wire circuits.
3. All loads shall be listed.
4. All fixtures and equipment shall be UL listed.
5. All electrical drawings shall be reviewed and approved by the Electrical Department.
6. All electrical drawings shall be reviewed and approved by the Architect.
7. All wiring shall be done in accordance with the National Electrical Code.
8. All electrical drawings shall be reviewed and approved by the Engineer.
9. All electrical drawings shall be reviewed and approved by the Owner.
10. All electrical drawings shall be reviewed and approved by the Contractor.

**AUDIO VISUAL SYMBOL LIST**

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>DESCRIPTION</th>
<th>POWER REQUIREMENTS</th>
<th>DATA REQUIREMENTS</th>
<th>LOW VOLTAGE RCD REQUIREMENTS</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>AV0.00</td>
<td>Audio/Visual</td>
<td>120/208 volt, 60 cycle</td>
<td>Yes</td>
<td>Yes</td>
<td>Review and approve by Architect/Engineer</td>
</tr>
<tr>
<td>AV0.01</td>
<td>Video Cables</td>
<td>120/208 volt, 60 cycle</td>
<td>Yes</td>
<td>Yes</td>
<td>Review and approve by Architect/Engineer</td>
</tr>
<tr>
<td>AV0.02</td>
<td>Data Cables</td>
<td>120/208 volt, 60 cycle</td>
<td>Yes</td>
<td>Yes</td>
<td>Review and approve by Architect/Engineer</td>
</tr>
</tbody>
</table>

**ABBREVIATIONS**

- AV: Audio/Visual
- CMS: Command Management System
- AV0: Audio/Visual Symbol

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**ISOLATED GROUNDING DETAIL**

**TYPICAL AUDIO/VISUAL CONDUIT RISER DIAGRAM**

**CMS-440 MOUNTING DETAIL**

**PROJECTOR MOUNTING DETAIL**
ENLARGED AUDIO/VISUAL ROOM LAYOUT – LEVEL 1

TYPICAL FOR CLASSROOMS:
1201, 1205, 1209, 1301, 2201, 2202, 2302, 3106, 3112, 3402, 4101, 4102, 4103, 4104, 4401, 4402, 4407

NOTE: A small have all items shown except the non-interactive projector. Typical for classrooms.

TYPICAL LEVEL 1 RACK ELEVATION

SHEET NOTES

1. 1” CONDUIT WITH SPEAKER CABLES.
2. 1 1/4” CONDUIT WITH 100 MCM CABLE
   (1) 310 MCM CABLE and (1) 100 MCM CABLE
3. 1 1/4” CONDUIT WITH 100 MCM CABLE
   (1) 2 AWG CABLE and (1) 100 MCM CABLE
4. NOT USED.
5. (1) DATA DROP and (1) REPEATER
   GROUND THE DUAL REPEATER
   WITH A DEDICATED 120V CIRCUIT
   WITH GROUNDED WIRE IN ADDITION
   TO NORMAL EQUIPMENT GROUND.
6. (1) DATA DROP and (1) REPEATER
   GROUND THE DUAL REPEATER
   WITH A DEDICATED 120V CIRCUIT
   WITH GROUNDED WIRE IN ADDITION
   TO NORMAL EQUIPMENT GROUND.
7. 1” CONDUIT WITH CABLES.

GENERAL NOTES

1. PROJECTOR TO BE MOUNTED 3'-6” FROM CENTER OF
   WALL BOARD. VERIFY FINAL INSTALLATION IN FIELD

MERRITT COLLEGE - CENTER
FOR SCIENCE AND ALLIED
HEALTH - AV

AUDIO/VISUAL
ENLARGED
CLASSROOM DETAILS
NOTES:
1. THIS IS A CONCEPTUAL BASED DRAWING AND IS NOT INTENDED FOR WIRING DIAGRAM USE.

RISER DIAGRAM - LEVEL 1

SCALE 1:1000
ENLARGED AUDIO/VISUAL ROOM LAYOUT - LEVEL 2

NOTE:
LEVEL 2 SHALL HAVE ALL ITEMS SHOWN EXCEPT THE NON-INTERACTIVE PROJECTOR. TYPICAL FOR CLASSROOM 3403.
1. THIS IS A CONCEPTUAL BASED DRAWING AND IS NOT INTENDED FOR WIRING DIAGRAM USE.
GENERAL NOTES

1. PROVIDE INTERCONNECTION OF CONTROLLERS TO PROVIDE SINGLE CONTROL OF PROJECTION SYSTEM AND ROOM DRUMS WHEN ROOM DOOR IS OPEN.

2. PROJECTOR TO BE MOUNTED 3'-1" FROM CENTER OF WALLBOARD, DOWN TO DRAWING AT THE FIELD.

3. 1/4" CONDUIT WITH (1) HDMI CABLE (1) CAT 6 CABLE (1) RSB32 CABLE AND (1) USB CABLE.

4. 1/8" CONDUIT WITH (1) HDMI CABLE (1) CAT 6 CABLE AND (1) RSB32 CABLE.

5. (1) DATA DROP AND (1) RELATED GROUND TYPE COPPER RECEPTACLE WITH ELECTRICAL RECEPTACLE CIRCUIT AND RELATED GROUND WIRE IN ADDITION TO NORMAL EQUIPMENT GROUND.

6. (1) DATA DROP AND (1) RELATED GROUND TYPE COPPER RECEPTACLE WITH ELECTRICAL RECEPTACLE CIRCUIT AND RELATED GROUND WIRE IN ADDITION TO NORMAL EQUIPMENT GROUND.

7. 1" CONDUIT WITH CABLE.

8. 1 1/2" CONDUIT FOR INTERCONNECTION OF CONTROLLERS.

CLASSROOM RACK ELEVATION

SCALE: 1" = 1'-0"
RISER DIAGRAM – LEVEL 3 (2 LEVEL 2 WITH INTERCONNECTION)
GENERAL NOTES
1. Projector to be mounted 3'-11" from center of
   whiteboard. Verify final installation in field.

SHEET NOTES
1. 1" conduit with (1) speaker cable.
2. 1 1/4" conduit with (1) HDMI cable, (2)
   Cat 6 cable.
3. 1 1/4" conduit with (1) HDMI cable, (1)
   Cat 6 cable.
4. 1" conduit with (1) VGA cable, (1) Cat 6
   cable.
5. Isolated ground type fourplex: receptacle with dedicated 20A circuit
   with isolated ground wire in addition to
   normal equipment ground.
6. 1" conduit with cable.

LEVEL 5 RACK ELEVATION
Scale: None

ENLARGED AUDIO/VISUAL ROOM LAYOUT
LEVEL 5
Scale: 1/4" = 1'-0"
NOTES:
1. THIS IS A CONCEPTUAL BASED DRAWING AND IS NOT INTENDED FOR WIRING DIAGRAM USE.

RISER DIAGRAM – LEVEL 5

SCALE NONE