

MAIN LIBRARY - INNOVATION LEARNING STUDIO 216  
SAMPLE STATE UNIVERSITY, ANYTOWN, USA 00000  
AUDIO VISUAL SYSTEMS DRAWINGS

DRAWING INDEX

AN "X" INDICATES THAT THE DRAWING IS INCLUDED IN DRAWING PACKAGE. IF NO "X" IS SHOWN, THE DRAWING IS NOT PART OF THAT PACKAGE.

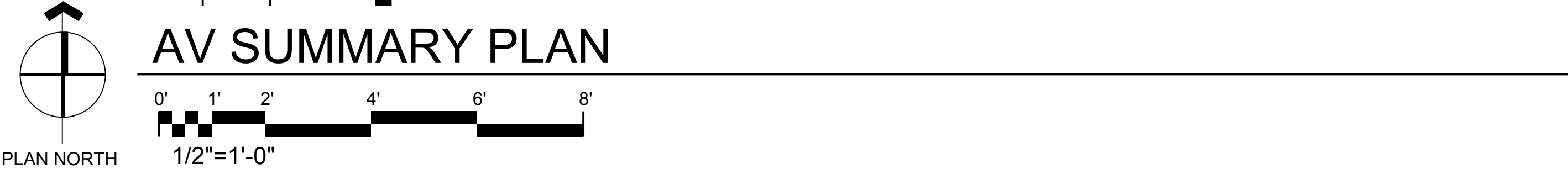
| DRAWING NUMBER | DRAWING TITLE                                    | DATE | DESCRIPTION |  | 1 |  |  |  |  |  |  |  |  |  |
|----------------|--------------------------------------------------|------|-------------|--|---|--|--|--|--|--|--|--|--|--|
|                |                                                  |      | FOR REVIEW  |  |   |  |  |  |  |  |  |  |  |  |
| AV-0.0         | DRAWING LIST                                     | X    |             |  |   |  |  |  |  |  |  |  |  |  |
| AV-0.1         | CABLE SCHEDULE                                   | X    |             |  |   |  |  |  |  |  |  |  |  |  |
|                | FLOOR PLANS                                      |      |             |  |   |  |  |  |  |  |  |  |  |  |
| AV-1.0         | KEYPLAN                                          | X    |             |  |   |  |  |  |  |  |  |  |  |  |
| AV-1.1         | FLOOR PLAN - LEVEL 02                            | X    |             |  |   |  |  |  |  |  |  |  |  |  |
| AV-1.2         |                                                  |      |             |  |   |  |  |  |  |  |  |  |  |  |
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| AV-1.4         |                                                  |      |             |  |   |  |  |  |  |  |  |  |  |  |
| AV-1.5         |                                                  |      |             |  |   |  |  |  |  |  |  |  |  |  |
| AV-1.6         |                                                  |      |             |  |   |  |  |  |  |  |  |  |  |  |
| AV-1.7         |                                                  |      |             |  |   |  |  |  |  |  |  |  |  |  |
| AV-1.8         |                                                  |      |             |  |   |  |  |  |  |  |  |  |  |  |
| AV-1.9         |                                                  |      |             |  |   |  |  |  |  |  |  |  |  |  |
|                | REFLECTED CEILING PLANS                          |      |             |  |   |  |  |  |  |  |  |  |  |  |
| AV-2.0         | REFLECTED CEILING PLAN - SPEAKER LAYOUT          | X    |             |  |   |  |  |  |  |  |  |  |  |  |
| AV-2.1         |                                                  |      |             |  |   |  |  |  |  |  |  |  |  |  |
| AV-2.2         |                                                  |      |             |  |   |  |  |  |  |  |  |  |  |  |
| AV-2.3         |                                                  |      |             |  |   |  |  |  |  |  |  |  |  |  |
| AV-2.4         |                                                  |      |             |  |   |  |  |  |  |  |  |  |  |  |
| AV-2.5         |                                                  |      |             |  |   |  |  |  |  |  |  |  |  |  |
| AV-2.6         |                                                  |      |             |  |   |  |  |  |  |  |  |  |  |  |
| AV-2.7         |                                                  |      |             |  |   |  |  |  |  |  |  |  |  |  |
| AV-2.8         |                                                  |      |             |  |   |  |  |  |  |  |  |  |  |  |
| AV-2.9         |                                                  |      |             |  |   |  |  |  |  |  |  |  |  |  |
|                | ELEVATIONS & DETAILS                             |      |             |  |   |  |  |  |  |  |  |  |  |  |
| AV-3.0         | CABLE PREPARATION & LABEL PLACEMENT STANDARDS    | X    |             |  |   |  |  |  |  |  |  |  |  |  |
| AV-3.1         | SHARP INTERACTIVE DISPLAY DETAILS                | X    |             |  |   |  |  |  |  |  |  |  |  |  |
| AV-3.2         | CRESTRON DEVICE DETAILS                          | X    |             |  |   |  |  |  |  |  |  |  |  |  |
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| AV-3.4         | RACK MANUFACTURER DIMENSIONS                     | X    |             |  |   |  |  |  |  |  |  |  |  |  |
| AV-3.5         | DISPLAY ELEVATIONS - NORTH & SOUTH               | X    |             |  |   |  |  |  |  |  |  |  |  |  |
| AV-3.6         | DISPLAY ELEVATIONS - WEST                        | X    |             |  |   |  |  |  |  |  |  |  |  |  |
| AV-3.7         | RACK RK-01 - LAYOUT                              | X    |             |  |   |  |  |  |  |  |  |  |  |  |
| AV-3.8         |                                                  |      |             |  |   |  |  |  |  |  |  |  |  |  |
| AV-3.9         |                                                  |      |             |  |   |  |  |  |  |  |  |  |  |  |
| AV-3.10        |                                                  |      |             |  |   |  |  |  |  |  |  |  |  |  |
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|                | SIGNAL FLOW DIAGRAMS                             |      |             |  |   |  |  |  |  |  |  |  |  |  |
| AV-4.0         | SIGNAL FLOW DIAGRAM - INNOV. LEARNING STUDIO 216 | X    |             |  |   |  |  |  |  |  |  |  |  |  |
| AV-4.1         |                                                  |      |             |  |   |  |  |  |  |  |  |  |  |  |
| AV-4.2         |                                                  |      |             |  |   |  |  |  |  |  |  |  |  |  |
| AV-4.3         |                                                  |      |             |  |   |  |  |  |  |  |  |  |  |  |
| AV-4.4         |                                                  |      |             |  |   |  |  |  |  |  |  |  |  |  |
| AV-4.5         |                                                  |      |             |  |   |  |  |  |  |  |  |  |  |  |
| AV-4.6         |                                                  |      |             |  |   |  |  |  |  |  |  |  |  |  |
| AV-4.7         |                                                  |      |             |  |   |  |  |  |  |  |  |  |  |  |
| AV-4.8         |                                                  |      |             |  |   |  |  |  |  |  |  |  |  |  |
| AV-4.9         |                                                  |      |             |  |   |  |  |  |  |  |  |  |  |  |
| AV-4.10        |                                                  |      |             |  |   |  |  |  |  |  |  |  |  |  |
| AV-4.11        |                                                  |      |             |  |   |  |  |  |  |  |  |  |  |  |

| DRAWING NUMBER | DRAWING TITLE                               | DATE | DESCRIPTION |  | 1 |  |  |  |  |  |  |  |  |  |
|----------------|---------------------------------------------|------|-------------|--|---|--|--|--|--|--|--|--|--|--|
|                |                                             |      | FOR REVIEW  |  |   |  |  |  |  |  |  |  |  |  |
| AV-5.0         | RACK ELEVATIONS & CUSTOM PLATING            |      |             |  |   |  |  |  |  |  |  |  |  |  |
| AV-5.1         | CABLE SCHEDULE - INNOV. LEARNING STUDIO 216 | X    |             |  |   |  |  |  |  |  |  |  |  |  |
| AV-5.2         | BTU CALCULATIONS                            | X    |             |  |   |  |  |  |  |  |  |  |  |  |
|                | RACK ELEVATION - RK-01                      | X    |             |  |   |  |  |  |  |  |  |  |  |  |

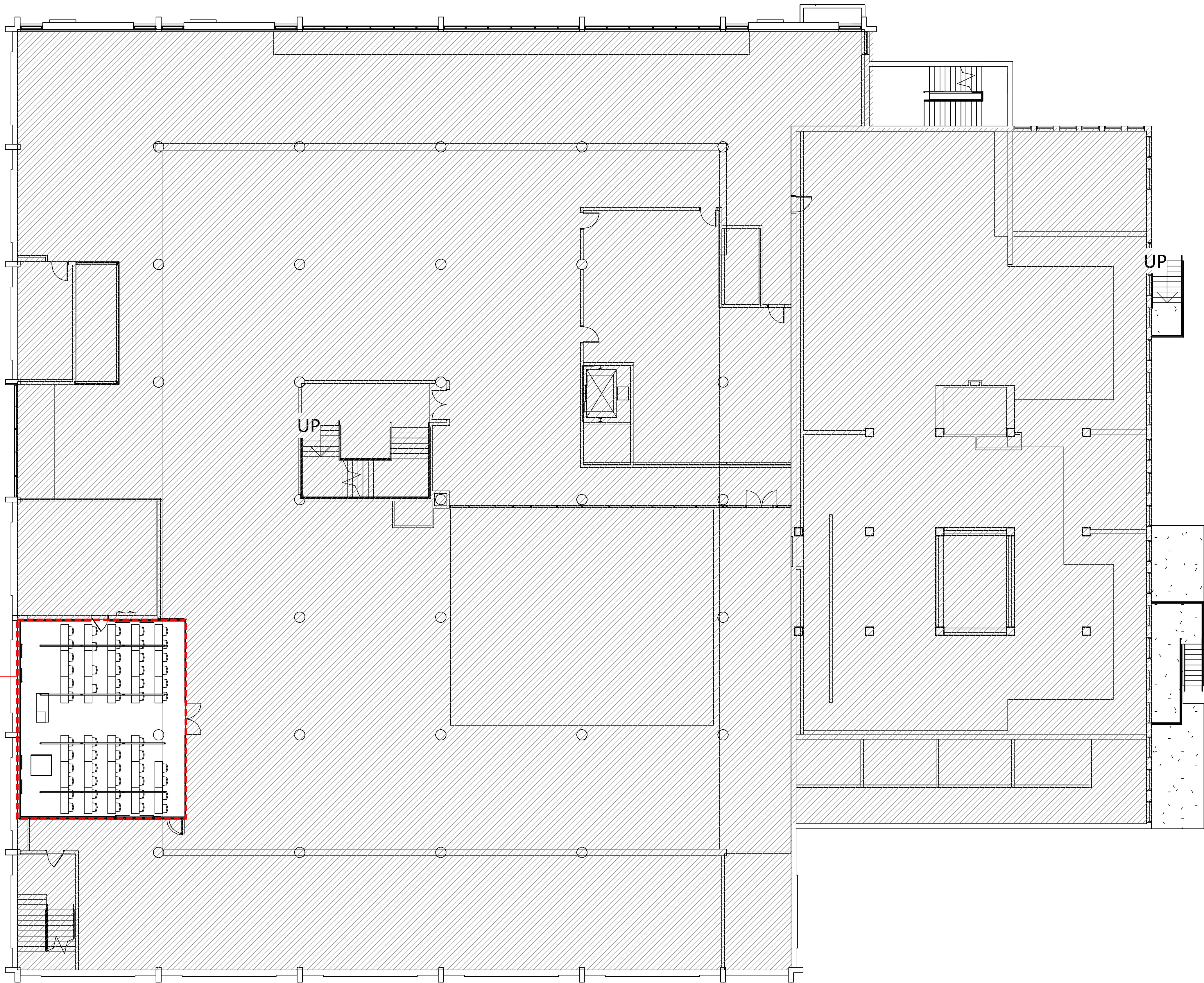
| GENERAL NOTES       |                                                                                                                                                                           |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.                  | THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE RELATED SPECIFICATIONS AND THE ARCHITECTURAL, ELECTRICAL AND TECHNOLOGY DRAWINGS (A-112, A-211, E600, T1-01, T201). |
| 2.                  | ALL DIMENSIONS ARE TO BE CHECKED AND VERIFIED ON SITE. ANY DISCREPANCIES SHALL BE REPORTED TO THE AV SYSTEMS INTEGRATOR IMMEDIATELY.                                      |
| 3.                  | DIMENSIONS ARE TO THE CENTERLINE OF OUTLETS, SWITCHES, EQUIPMENT AND DEVICES UNLESS OTHERWISE INDICATED.                                                                  |
| 4.                  | DO NOT SCALE DRAWINGS. ALL DIMENSIONS ARE IN IMPERIAL UNITS UNLESS OTHERWISE INDICATED.                                                                                   |
| 5.                  | ALL JUNCTION BOXES, CONDUIT AND 120 V AC WIRING TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.                                                       |
| 6.                  | ALL COMMUNICATIONS CONNECTIONS (DATA) BY OWNER IT UNLESS OTHERWISE NOTED. ESD-01 UPLINKS TO THE EXISTING ROOM TELCOM OUTLET NEAR Rk-01.                                   |
| 7.                  | OFF = OWNER FURNISHED EQUIPMENT; OPO = OWNER FURNISHED; CONTRACTOR INSTALLED. THE PODIUM PC IS OFF; THE PODIUM AND RACK Rk-01 ARE OPO BY OWNER.                           |
| AV SYSTEMS AC POWER |                                                                                                                                                                           |
| 8.                  | AC POWER TO THE AV SYSTEM IS FROM DEDICATED 20 A / 120 V CIRCUITS ON PANEL K, SAME PANEL AND SAME PHASE WHERE PRACTICAL.                                                  |
| 9.                  | RACK Rk-01 IS FED FROM PANEL K CIRCUITS 25 AND 27 PER E602. TWO NEMA 5-20R RECEPTACLES AT 10" AFF IN THE NORTHWEST CORNER, ONE PER PDU.                                   |
| 10.                 | PDU-01 AND PDU-02 ARE SET AND SECURED IN Rk-01 BY THE AV SYSTEMS CONTRACTOR. DO NOT SHARE NEUTRALS OR GROUNDS. SEE AV-5.1 FOR THE LOAD.                                   |
| 11.                 | PROVIDE A 120 V RECEPTACLE IN EACH DISPLAY STORAGE BOX BB-01 TO BB-04 AT THE HEIGHT SHOWN ON THE ELEVATIONS. SEE AV-3.5 AND AV-3.6.                                       |
| 12.                 | PODIUM POWER IS BY OWNER WITH THE CABLE BUNDLE FROM THE WEST WALL PODIUM FEED BOX. ALL OTHER AV DEVICES OUTSIDE THE RACK ARE POWERED BY PDE FROM ESD-01.                  |
| AV SYSTEMS CONDUIT  |                                                                                                                                                                           |
| 13.                 | ALL AV TECHNICAL SYSTEMS CONDUIT IS EMT, 3/4" MINIMUM UNLESS SPECIFIED OTHERWISE.                                                                                         |
| 14.                 | PROVIDE 3/4" EMT FROM EACH DISPLAY BOX BB-01 TO BB-04 TO THE ACCESSIBLE CEILING. SEE AV-1.0 AND AV-3.5 / AV-3.6.                                                          |
| 15.                 | PROVIDE 3/4" EMT FROM EACH FUTURE AV LOCATION FUT-01 AND FUT-02 TO THE ACCESSIBLE CEILING, WITH PULL STRING.                                                              |
| 16.                 | PODIUM FEED: ONE DOUBLE GANG BOX AT 18" AFF AT THE WEST WALL WITH 1" EMT TO THE ACCESSIBLE CEILING (4 CAT6A, NEC 40% FILL); CABLE BUNDLE TO THE PODIUM BY OWNER.          |
| 17.                 | PROVIDE 3/4" EMT FROM CAM-02 ON THE WEST WALL, TO THE ACCESSIBLE CEILING.                                                                                                 |
| 18.                 | CEILING LOUISPEAKERS: 3/4" EMT FROM EACH JBL BACK CAN TO A JUNCTION BOX. SEE AV-2.0.                                                                                      |
| 19.                 | ABOVE THE ACT CEILING OPEN CABLE RUNS ON JHOOKS AT 8'-0" ON CENTER TO Rk-01. ALL CABLE IS PLENUM RATED. SEE AV-0.1.                                                       |
| 20.                 | FLEXIBLE CONDUIT SHALL NOT BE USED FOR ANY PART OF THE AV TECHNICAL SYSTEMS CONDUIT UNLESS OTHERWISE SPECIFIED.                                                           |
| 21.                 | ALL CONDUIT ENDS SHALL BE EQUIPPED WITH INSULATING BUSHINGS. PROVIDE A 18" OR LARGER PULL ROPE IN EACH CONDUIT.                                                           |
| 22.                 | CONDUIT RUNS THAT REQUIRE 3 OR MORE 90 DEGREE BENDS MUST HAVE A PULL-BOX MOUNTED IN AN ACCESSIBLE LOCATION.                                                               |
| 23.                 | AV TECHNICAL SYSTEM CONDUIT AND CABLE THAT RUNS PARALLEL WITH AC POWER FOR MORE THAN 12" MUST BE SEPARATED BY AT LEAST 12".                                               |
| 24.                 | ALL DEVICE BACKBOXES SHALL BE MOUNTED RIGIDLY, PLUMB AND SQUARE, WITHIN 1/4" OF THE FINISHED SURFACE. CLEAR ALL DEBRIS BEFORE INSTALLING PLATES.                          |
| 25.                 | OPENINGS AROUND CONDUITS PENETRATING WALLS SHALL BE SEALED AND FINISHED TO MATCH ADJACENT SURFACES.                                                                       |
| 26.                 | CONDUIT SYSTEM INSTALLATION MUST CONFORM TO ALL APPLICABLE BUILDING CODES AND PROJECT ELECTRICAL SPECIFICATIONS.                                                          |
| 27.                 | AV LOW VOLTAGE CABLE SHALL NOT SHARE A CONDUIT OR BOX WITH 120 V AC WIRING. MIXED VOLTAGE BOXES SHALL INCLUDE A DIVIDER.                                                  |

| RESPONSIBILITY SCHEDULE                |              |      |         |        |       |     |               |      |         |        |       |     |
|----------------------------------------|--------------|------|---------|--------|-------|-----|---------------|------|---------|--------|-------|-----|
|                                        | SUPPLIED BY: |      |         |        |       |     | INSTALLED BY: |      |         |        |       |     |
|                                        | G.C.         | E.C. | T/D. C. | CLIENT | AV.C. | N/A | G.C.          | E.C. | T/D. C. | CLIENT | AV.C. | N/A |
| CEILING MOUNTED EQUIPMENT              |              |      |         |        |       |     |               |      |         |        |       |     |
| SPEAKER HARDWARE & BACKBOX:            |              |      |         |        | X     |     |               |      |         |        |       | X   |
| CEILING LOUDSPEAKERS:                  |              |      |         |        | X     |     |               |      |         |        |       | X   |
| CEILING MICROPHONES:                   |              |      |         |        | X     |     |               |      |         |        |       | X   |
| CEILING CAMERA & MOUNT:                |              |      |         |        | X     |     |               |      |         |        |       | X   |
| WALL MOUNTED EQUIPMENT                 |              |      |         |        |       |     |               |      |         |        |       |     |
| IN-WALL BACKING & BLOCKING:            |              | X    |         |        |       |     |               | X    |         |        |       |     |
| FLAT PANEL MOUNTS:                     |              |      |         |        | X     |     |               |      |         |        |       | X   |
| FLAT PANEL HOOKS:                      |              |      |         |        | X     |     |               |      |         |        |       | X   |
| DISPLAY STORAGE BOXES:                 |              |      |         |        | X     |     |               |      |         |        |       | X   |
| WALL CAMERA & MOUNT:                   |              |      |         |        | X     |     |               |      |         |        |       | X   |
| ELECTRICAL (FOR AV USE)                |              |      |         |        |       |     |               |      |         |        |       |     |
| ALL AV ELECTRICAL OUTLETS AND BOXES:   |              | X    |         |        |       |     |               | X    |         |        |       |     |
| AV ELECTRICAL CONDUITS & PULL STRINGS: |              | X    |         |        |       |     |               | X    |         |        |       |     |
| RACK CIRCUITS PANEL K-25 / K-27:       |              | X    |         |        |       |     |               | X    |         |        |       |     |
| AV LOW VOLTAGE CABLES:                 |              |      |         |        | X     |     |               |      |         |        |       |     |
| ALL AV CONNECTORS:                     |              |      |         |        | X     |     |               |      |         |        |       | X   |
| VOICE & DATA NETWORK (FOR AV USE)      |              |      |         |        |       |     |               |      |         |        |       |     |
| AV NETWORK SWITCH ESW-01:              |              |      |         |        | X     |     |               |      |         |        |       | X   |
| NETWORK UPLINK & TELECOM OUTLET:       |              |      |         |        | X     |     |               |      |         | X      |       |     |
| IP/NETWORK CONFIGURATION FOR AV:       |              |      |         |        | X     |     |               |      |         |        |       | X   |
| PERMANENT FURNISHINGS                  |              |      |         |        |       |     |               |      |         |        |       |     |
| SMART PODIUM:                          |              |      |         |        | X     |     |               |      |         |        |       | X   |
| PODIUM PC (OFE):                       |              |      |         |        | X     |     |               |      |         | X      |       |     |
| AV EQUIPMENT RACK RK-01:               |              |      |         |        | X     |     |               |      |         |        |       | X   |
|                                        | SUPPLIED BY: |      |         |        |       |     | INSTALLED BY: |      |         |        |       |     |
|                                        | G.C.         | E.C. | T/D. C. | CLIENT | AV.C. | N/A | G.C.          | E.C. | T/D. C. | CLIENT | AV.C. | N/A |

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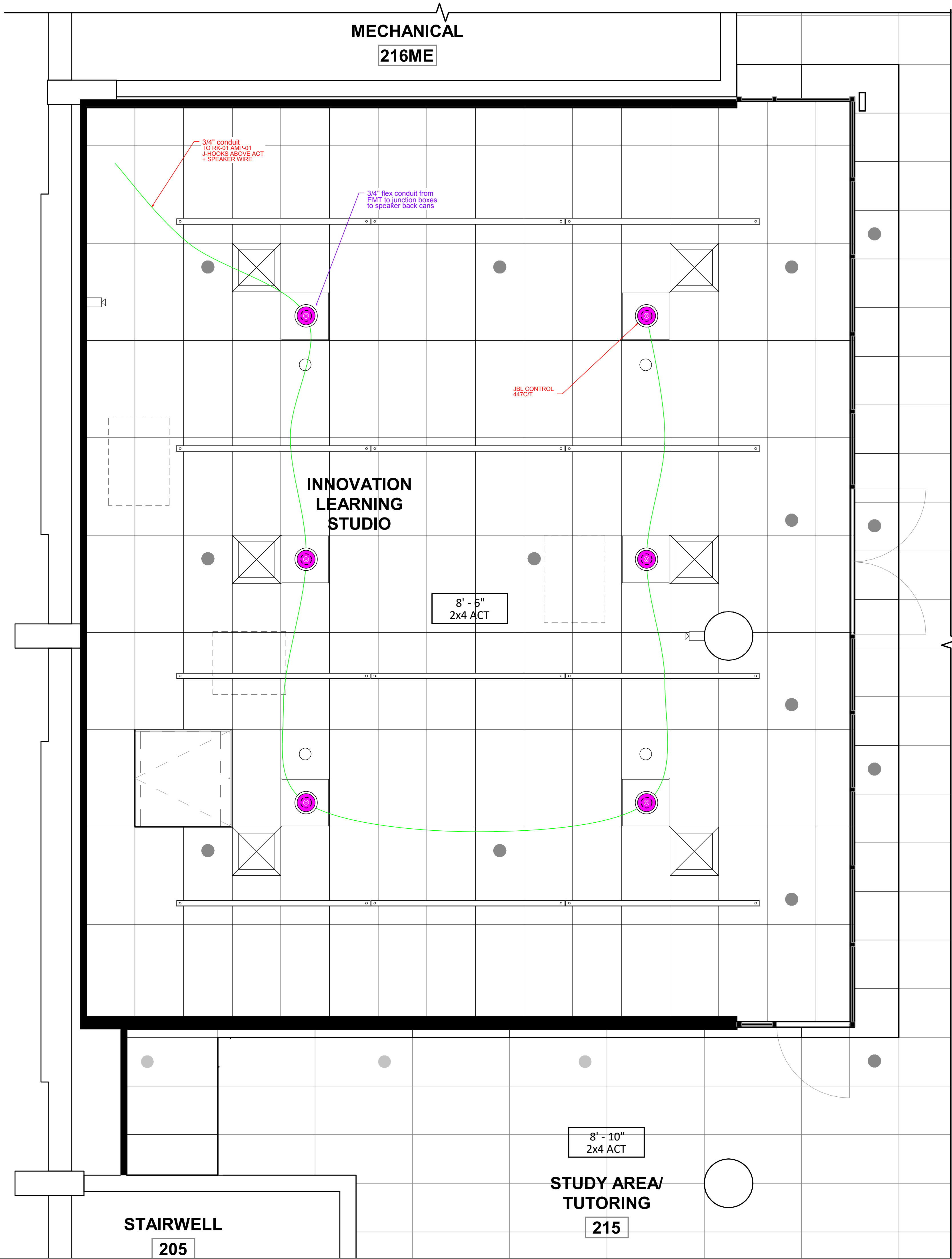
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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------|
| CLIENT                                                                                                                                                                                                                                      |              |                |
| SAMPLE STATE UNIVERSITY                                                                                                                                                                                                                     |              |                |
| ADDRESS                                                                                                                                                                                                                                     |              |                |
| MAIN LIBRARY, 100 CAMPUS DRIVE<br>ANYTOWN, USA 00000                                                                                                                                                                                        |              |                |
| PROJECT                                                                                                                                                                                                                                     |              |                |
| INNOVATION LEARNING<br>STUDIO 216                                                                                                                                                                                                           |              |                |
| AUDIO VISUAL SYSTEM INTEGRATOR                                                                                                                                                                                                              |              |                |
| <div> <b>INTEGRATOR<br/>DRAFTWORKS</b></div> <div>AV SYSTEM DRAFTING<br/>INTEGRATORDRAFTWORKS.COM<br/>JAMESAVDRAFTING@GMAIL.COM<br/>(505) 527-2959</div> |              |                |
| DESCRIPTION                                                                                                                                                                                                                                 |              |                |
| AUDIO VISUAL SYSTEMS                                                                                                                                                                                                                        |              |                |
|                                                                                                                                                                                                                                             |              |                |
|                                                                                                                                                                                                                                             |              |                |
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|                                                                                                                                                                                                                                             |              |                |
|                                                                                                                                                                                                                                             |              |                |
| REVISIONS↓<br>(SEE AV-0.0 FOR REASON OF REVISION)                                                                                                                                                                                           |              |                |
| REV.                                                                                                                                                                                                                                        | DESCRIPTION  | YYYY/MM/DD     |
| 1                                                                                                                                                                                                                                           | FOR REVIEW   | 2026-10-10     |
| 2                                                                                                                                                                                                                                           |              |                |
| 3                                                                                                                                                                                                                                           |              |                |
| 4                                                                                                                                                                                                                                           |              |                |
| 5                                                                                                                                                                                                                                           |              |                |
| 6                                                                                                                                                                                                                                           |              |                |
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| 8                                                                                                                                                                                                                                           |              |                |
| 9                                                                                                                                                                                                                                           |              |                |
| 10                                                                                                                                                                                                                                          |              |                |
| ACCT. MANAGER:                                                                                                                                                                                                                              |              | J. MCNEELY     |
| ENGINEER:                                                                                                                                                                                                                                   |              | J. MCNEELY     |
| REVIEWER:                                                                                                                                                                                                                                   |              | J. MCNEELY     |
| FIELD SERVICE COORDINATOR:                                                                                                                                                                                                                  |              |                |
| PROJECT NUMBER:                                                                                                                                                                                                                             |              |                |
| NATIVE SIZE:                                                                                                                                                                                                                                |              | ARCH D (24X36) |
| ISSUED FOR:                                                                                                                                                                                                                                 |              |                |
| X                                                                                                                                                                                                                                           | REVIEW       | COORDINATION   |
|                                                                                                                                                                                                                                             | CONSTRUCTION | AS-BUILT       |
| TITLE:                                                                                                                                                                                                                                      |              |                |
| KEYPLAN                                                                                                                                                                                                                                     |              |                |
| AV - 1.0                                                                                                                                                                                                                                    |              |                |



INNOV. LEARN. STUDIO 216  
SIGNAL FLOW: AV-4.0

|                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CLIENT                                                                                                                                                                            |
| SAMPLE STATE UNIVERSITY                                                                                                                                                           |
| ADDRESS                                                                                                                                                                           |
| MAIN LIBRARY, 100 CAMPUS DRIVE<br>ANYTOWN, USA 00000                                                                                                                              |
| PROJECT                                                                                                                                                                           |
| INNOVATION LEARNING<br>STUDIO 216                                                                                                                                                 |
| AUDIO VISUAL SYSTEM INTEGRATOR                                                                                                                                                    |
| <div><div><div></div></div><div>INTEGRATOR<br/>DRAFTWORKS</div></div> <div>AV SYSTEM DRAFTING<br/>INTEGRATORDRAFTWORKS.COM<br/>JAMESAVDRAFTING@GMAIL.COM<br/>(505) 527-2959</div> |
| DESCRIPTION                                                                                                                                                                       |
| AUDIO VISUAL SYSTEMS                                                                                                                                                              |

| REVISIONS↓<br>(SEE AV-0.0 FOR REASON OF REVISION) |              |                |
|---------------------------------------------------|--------------|----------------|
| REV.                                              | DESCRIPTION  | YYYY/MM/DD     |
| 1                                                 | FOR REVIEW   | 2026-10-10     |
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| 8                                                 |              |                |
| 9                                                 |              |                |
| 10                                                |              |                |
| ACCT. MANAGER:                                    |              | J. MCNEELY     |
| ENGINEER:                                         |              | J. MCNEELY     |
| REVIEWER:                                         |              | J. MCNEELY     |
| FIELD SERVICE COORDINATOR:                        |              |                |
| PROJECT NUMBER:                                   |              |                |
| NATIVE SIZE:                                      |              | ARCH D (24X36) |
| ISSUED FOR:                                       |              |                |
| <input checked="" type="checkbox"/>               | REVIEW       | COORDINATION   |
| <input type="checkbox"/>                          | CONSTRUCTION | AS-BUILT       |
| TITLE:                                            |              |                |
| FLOOR PLAN:<br>LEVEL 02                           |              |                |
| AV - 1.1                                          |              |                |



CLIENT

SAMPLE STATE  
UNIVERSITY

ADDRESS

MAIN LIBRARY, 100 CAMPUS DRIVE  
ANYTOWN, USA 00000

PROJECT

INNOVATION LEARNING  
STUDIO 216

AUDIO VISUAL SYSTEM INTEGRATOR

 **INTEGRATOR  
DRAFTWORKS**

AV SYSTEM DRAFTING  
INTEGRATORDRAFTWORKS.COM  
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(505) 527-2959

DESCRIPTION

AUDIO VISUAL SYSTEMS

REVISIONS↓  
(SEE AV-0.0 FOR REASON OF  
REVISION)

| REV. | DESCRIPTION | YYYY/MM/DD |
|------|-------------|------------|
| 1    | FOR REVIEW  | 2026-10-10 |
| 2    |             |            |
| 3    |             |            |
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|                                            |                |
|--------------------------------------------|----------------|
| ACCT. MANAGER:                             | J. MCNEELY     |
| ENGINEER:                                  | J. MCNEELY     |
| REVIEWER:                                  | J. MCNEELY     |
| FIELD SERVICE<br>COORDINATOR:              |                |
| PROJECT NUMBER:                            |                |
| NATIVE SIZE:                               | ARCH D (24X36) |
| ISSUED FOR:                                |                |
| <input checked="" type="checkbox"/> REVIEW | COORDINATION   |
| CONSTRUCTION                               | AS-BUILT       |

TITLE:  
REFLECTED CEILING PLAN -  
SPEAKER LAYOUT

AV - 2.0

| DESCRIPTION                           | APPLICATION                     | REPRESENTATIVE MODEL (PLENUM) | O.D. (INCHES) | REPRESENTATIVE MODEL (NON-PLENUM) | O.D. (INCHES) |
|---------------------------------------|---------------------------------|-------------------------------|---------------|-----------------------------------|---------------|
| CAT 5E, Unshielded, U/UTP             | Sound Masking                   | Belden 1213                   | 0.207         | Belden 1212                       | 0.206         |
| CAT 6, Unshielded, U/UTP              | Network Data                    | Belden 4813                   | 0.258         | Belden 4812                       | 0.255         |
| CAT 6A, Unshielded, U/UTP             | DM NVX, Dante, Network, PoE     | Belden 10GXS13                | 0.265         | Belden 10GXS12                    | 0.275         |
| Cat 5E, Shielded, F/UTP               | DigitalMedia, HDBaseT           | Crestron DM-CBL-8G-P          | 0.245         | Crestron DM-CBL-8G-NP             | 0.245         |
| CAT 6, Shielded, F/UTP                | DigitalMedia, XTP, DTP, HDBaseT | Belden 2413F                  | 0.310         | Belden 2412F                      | 0.290         |
| CAT 7, Shielded, S/FTP                | DigitalMedia, HDBaseT           | Crestron DM-CBL-ULTRA-P       | 0.304         | Crestron DM-CBL-ULTRA-NP          | 0.323         |
| 22 AWG Two Conductor Shielded Audio   | Line Level, Microphone Audio    | Belden 9451P                  | 0.127         | Belden 9451                       | 0.135         |
| 10 AWG Two Conductor Speaker          | Speaker                         | Belden 6T00UP                 | 0.302         | Belden 5T00UP                     | 0.356         |
| 12 AWG Two Conductor Speaker          | Speaker                         | Belden 6000UE                 | 0.252         | Belden 5000UE                     | 0.260         |
| 14 AWG Two Conductor Speaker          | Speaker                         | Belden 6100UE                 | 0.226         | Belden 5100UE                     | 0.230         |
| 16 AWG Two Conductor Speaker          | Speaker                         | Belden 6200UE                 | 0.184         | Belden 5200UE                     | 0.184         |
| RG 6 (HD-SDI)                         | HD-SDI Video                    | Belden 1695A                  | 0.229         | Belden 1694A                      | 0.274         |
| RG 58 (RF)                            | 50 Ohm RF Wireless Audio        | Belden 82240                  | 0.159         | Belden 8240                       | 0.193         |
| RG 8 (RF)                             | 50 Ohm RF Wireless Audio        | Belden 89913                  | 0.360         | Belden 9913                       | 0.405         |
| 22 AWG Four Conductor Shielded        | Relay, GPIO, RS-232             | Belden 6502FE                 | 0.147         | Belden 5502FE                     | 0.145         |
| 24 AWG Four Conductor Shielded RS-485 | RS-485                          | Belden 82842                  | 0.273         | Belden 9842                       | 0.340         |
| Cresnet                               | Cresnet                         | Crestron CRESNET-P            | 0.216         | Crestron CRESNET-NP               | 0.250         |

CLIENT

SAMPLE STATE  
UNIVERSITY

ADDRESS

MAIN LIBRARY, 100 CAMPUS DRIVE  
ANYTOWN, USA 00000

PROJECT

INNOVATION LEARNING  
STUDIO 216

AUDIO VISUAL SYSTEM INTEGRATOR

INTEGRATOR  
DRAFTWORKS

AV SYSTEM DRAFTING  
INTEGRATORDRAFTWORKS.COM  
JAMESAVDRAFTING@GMAIL.COM  
(505) 527-2959

DESCRIPTION

AUDIO VISUAL SYSTEMS

REVISIONS↓  
(SEE AV-0.0 FOR REASON OF  
REVISION)

| REV. | DESCRIPTION | YYYY/MM/DD |
|------|-------------|------------|
| 1    | FOR REVIEW  | 2026-10-10 |
| 2    |             |            |
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|                               |                |
|-------------------------------|----------------|
| ACCT. MANAGER:                | J. MCNEELY     |
| ENGINEER:                     | J. MCNEELY     |
| REVIEWER:                     | J. MCNEELY     |
| FIELD SERVICE<br>COORDINATOR: |                |
| PROJECT NUMBER:               |                |
| NATIVE SIZE:                  | ARCH D (24X36) |

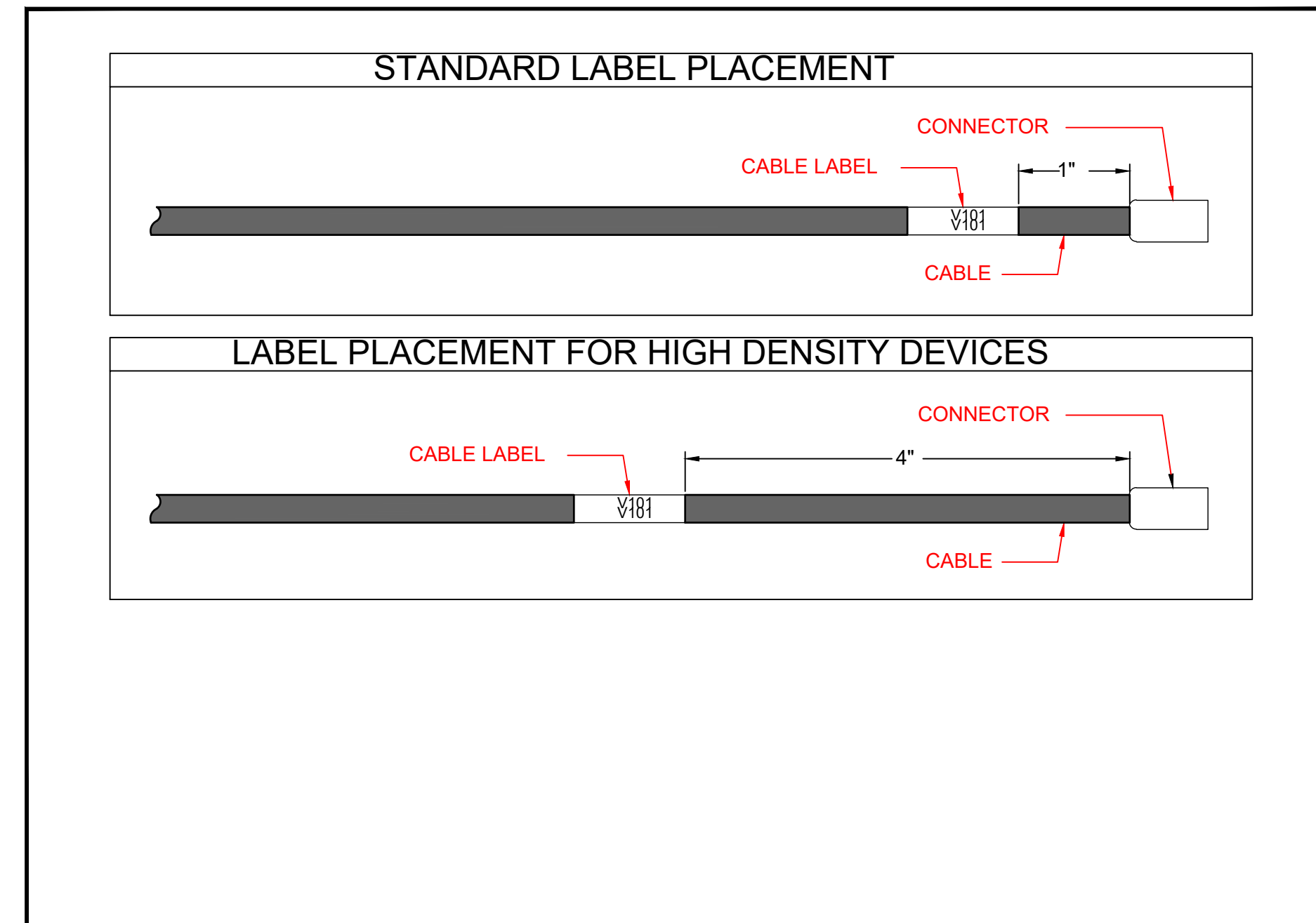
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| ISSUED FOR: |              |              |
| X           | REVIEW       | COORDINATION |
|             | CONSTRUCTION | AS-BUILT     |

TITLE:

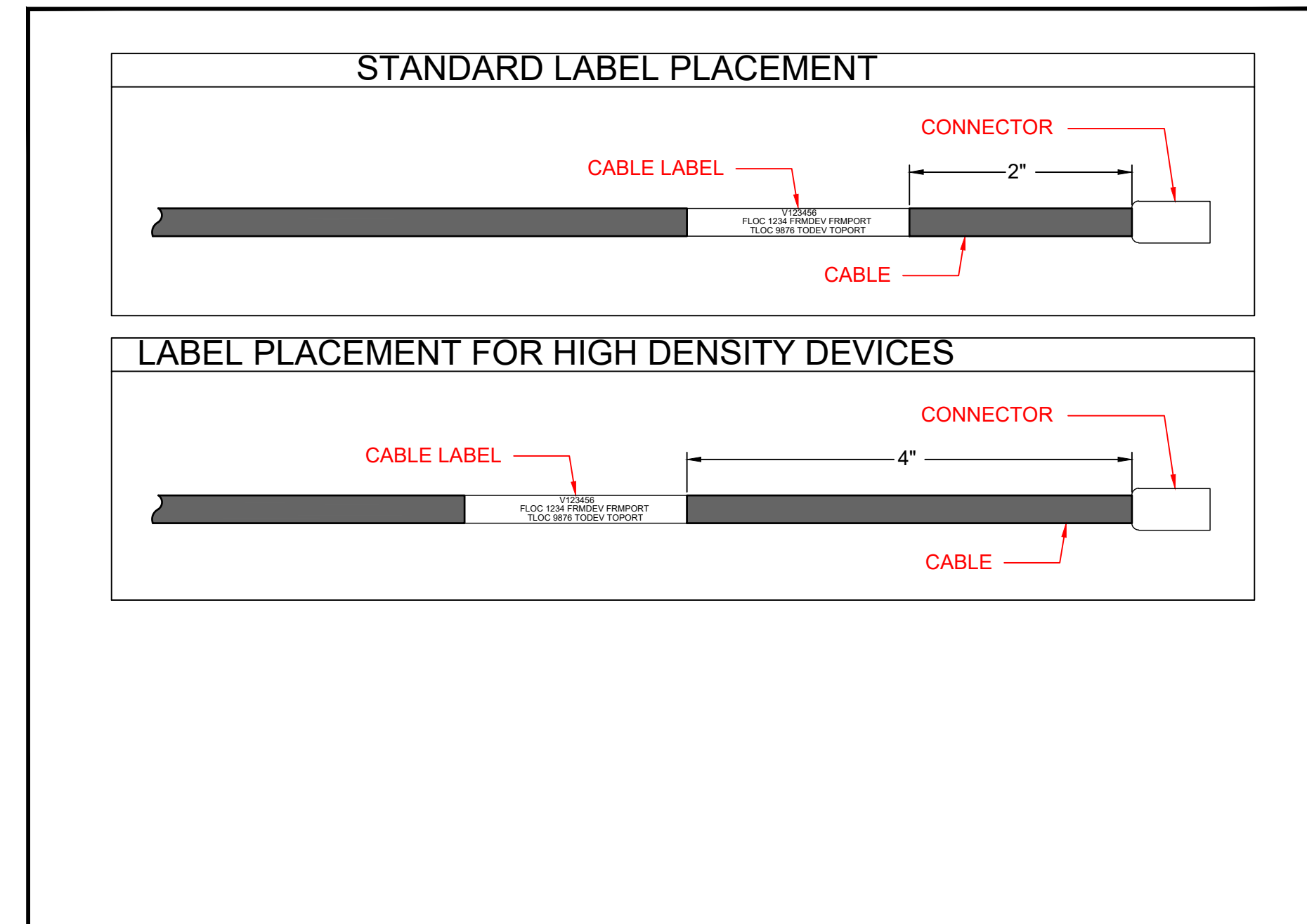
CABLE SCHEDULE

AV - 0.1

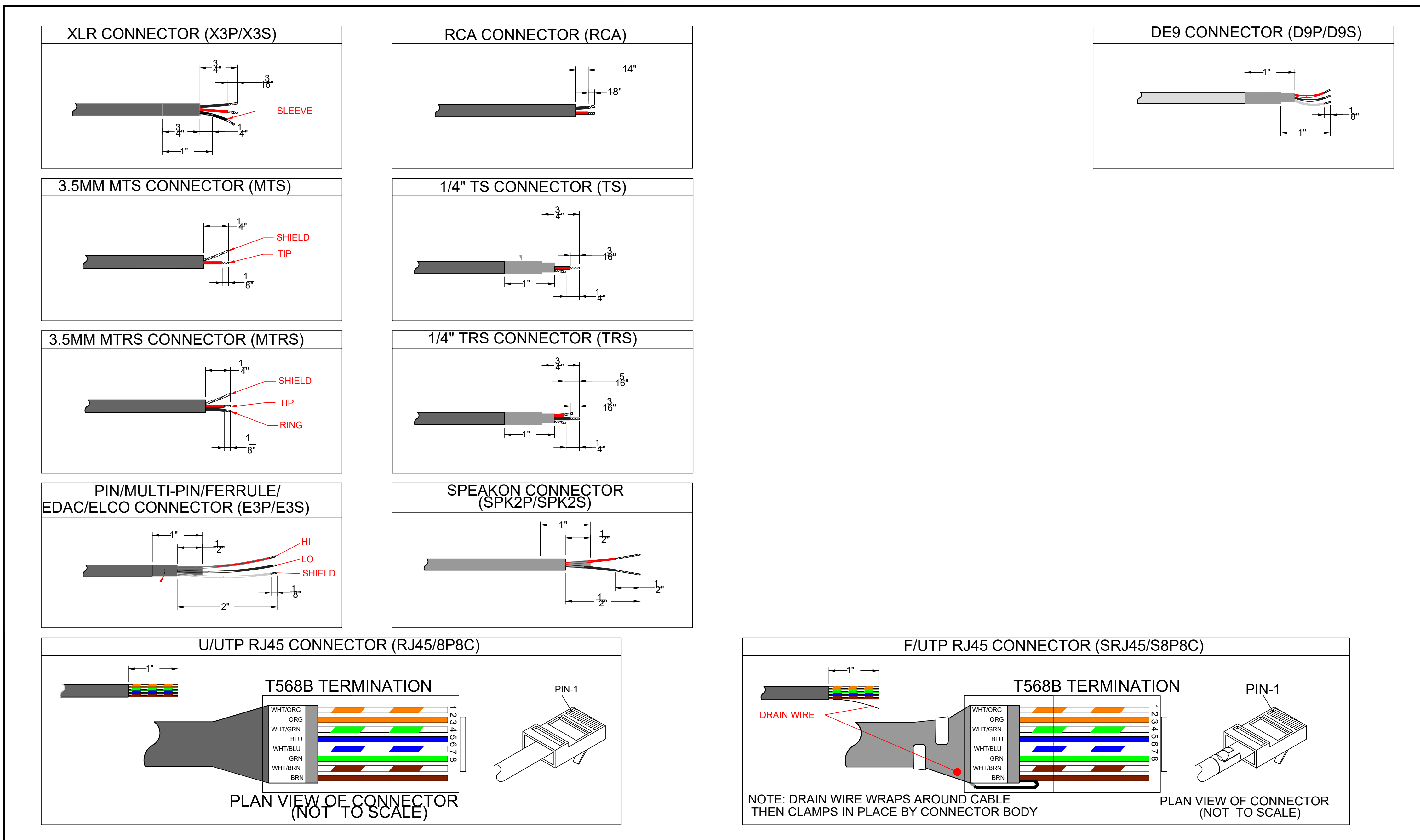
## 1" CABLE LABEL PLACEMENT (NUMBERS ONLY)



## 2" CABLE LABEL PLACEMENT (SOURCE & DEST.)



## CABLE PREPARATION



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## AUDIO VISUAL SYSTEM INTEGRATOR



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(505) 527-2959

| DESCRIPTION |
|-------------|
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## AUDIO VISUAL SYSTEMS

## REVISIONS↓

SEE AV-0.0 FOR REASON OF  
REVISION)

| REV. | DESCRIPTION | YYYY/MM/DD |
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|                |            |
|----------------|------------|
| ACCT. MANAGER: | J. MCNEELY |
|----------------|------------|

|           |            |
|-----------|------------|
| ENGINEER: | J. MCNEELY |
|-----------|------------|

|           |            |
|-----------|------------|
| REVIEWER: | J. MCNEELY |
|-----------|------------|

|                               |  |
|-------------------------------|--|
| FIELD SERVICE<br>COORDINATOR: |  |
|-------------------------------|--|

|                 |  |
|-----------------|--|
| PROJECT NUMBER: |  |
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| NATIVE SIZE: | ARCITE D (24X30) |
| ISSUED FOR:  |                  |

|   |        |  |              |
|---|--------|--|--------------|
| Y | REVIEW |  | COORDINATION |
|---|--------|--|--------------|

|  |              |  |          |
|--|--------------|--|----------|
|  | CONSTRUCTION |  | AS-BUILT |
|--|--------------|--|----------|

TITLE:

### CABLE PREPARATION & LABEL

## PLACEMENT STANDARDS

AV - 3.0

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STUDIO 216

AUDIO VISUAL SYSTEM INTEGRATOR

INTEGRATOR  
DRAFTWORKS

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INTEGRATORDRAFTWORKS.COM  
JAMESAVDRAFTING@GMAIL.COM  
(505) 527-2959

DESCRIPTION

AUDIO VISUAL SYSTEMS

REVISIONS↓  
(SEE AV-0.0 FOR REASON OF REVISION)

| REV. | DESCRIPTION | YYYY/MM/DD |
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|--------------------------------------------|----------------|
| ACCT. MANAGER:                             | J. MCNEELY     |
| ENGINEER:                                  | J. MCNEELY     |
| REVIEWER:                                  | J. MCNEELY     |
| FIELD SERVICE COORDINATOR:                 |                |
| PROJECT NUMBER:                            |                |
| NATIVE SIZE:                               | ARCH D (24X36) |
| ISSUED FOR:                                |                |
| <input checked="" type="checkbox"/> REVIEW | COORDINATION   |
| CONSTRUCTION                               | AS-BUILT       |

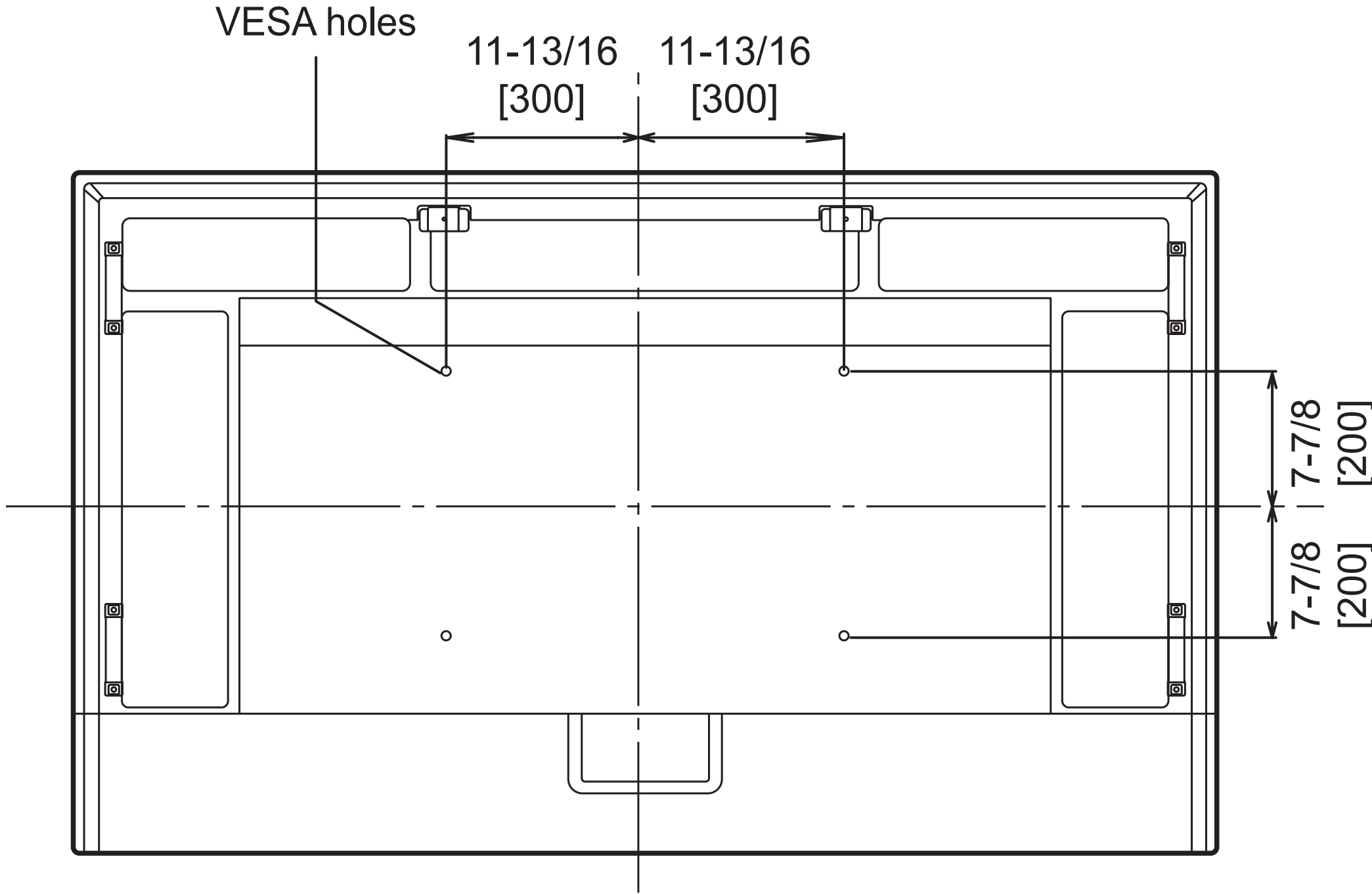
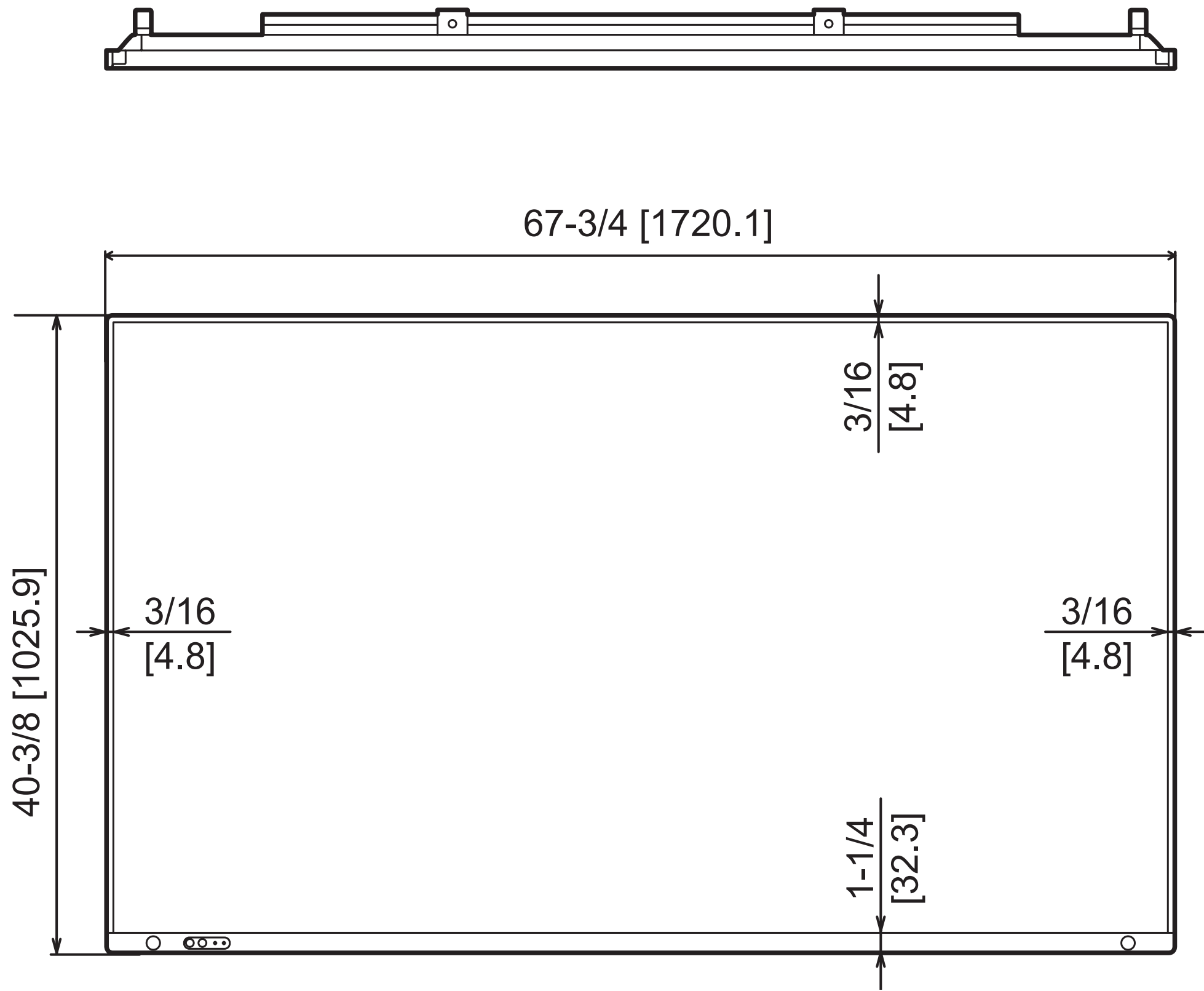
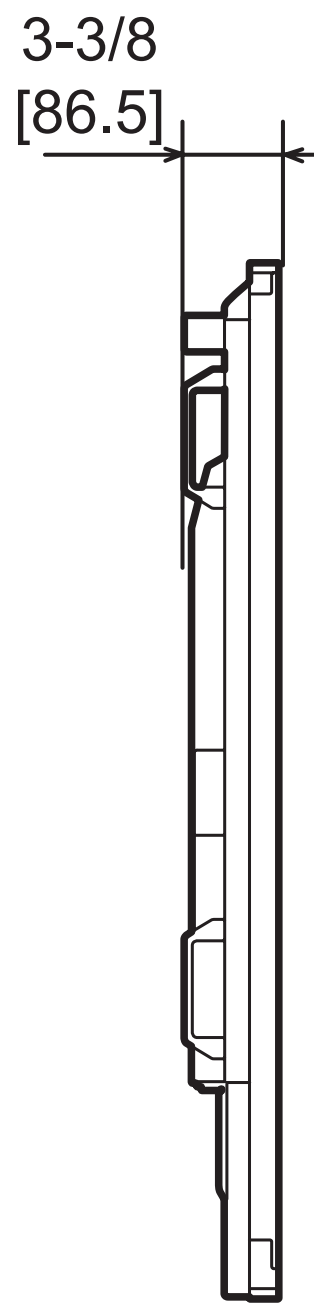
TITLE:

SHARP INTERACTIVE  
DISPLAY DETAILS

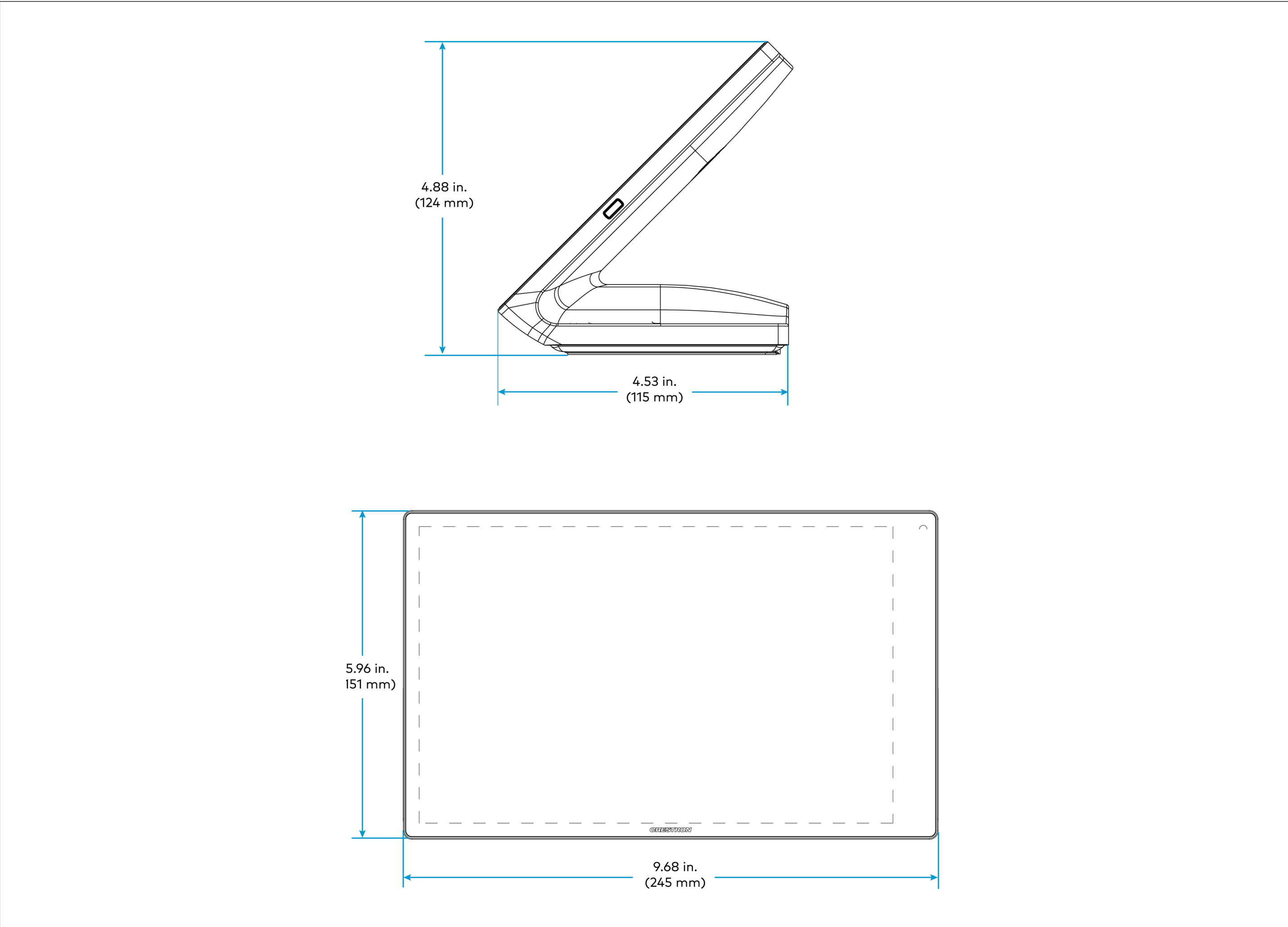
AV - 3.1

[PN-LA752]

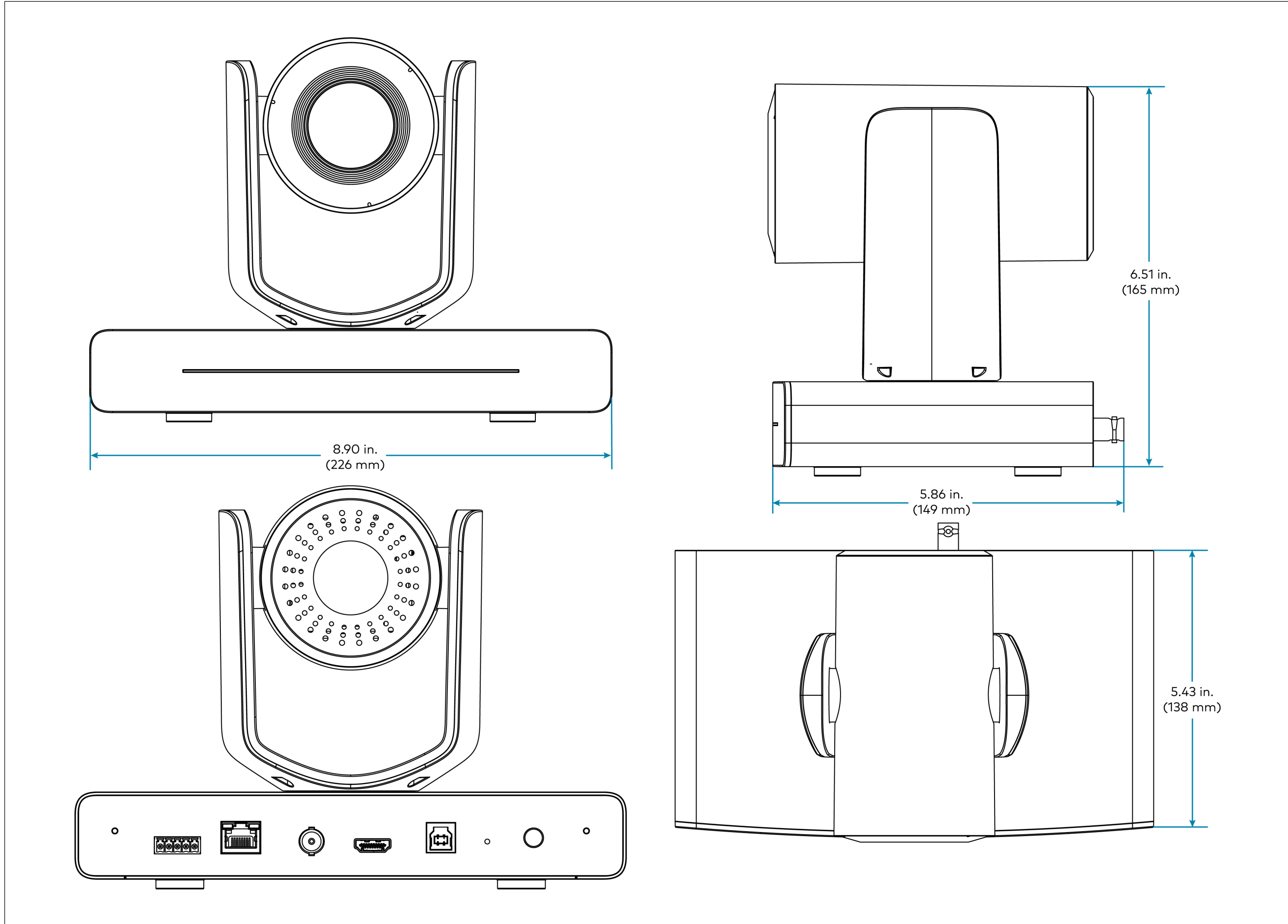
Unit: inch [mm]



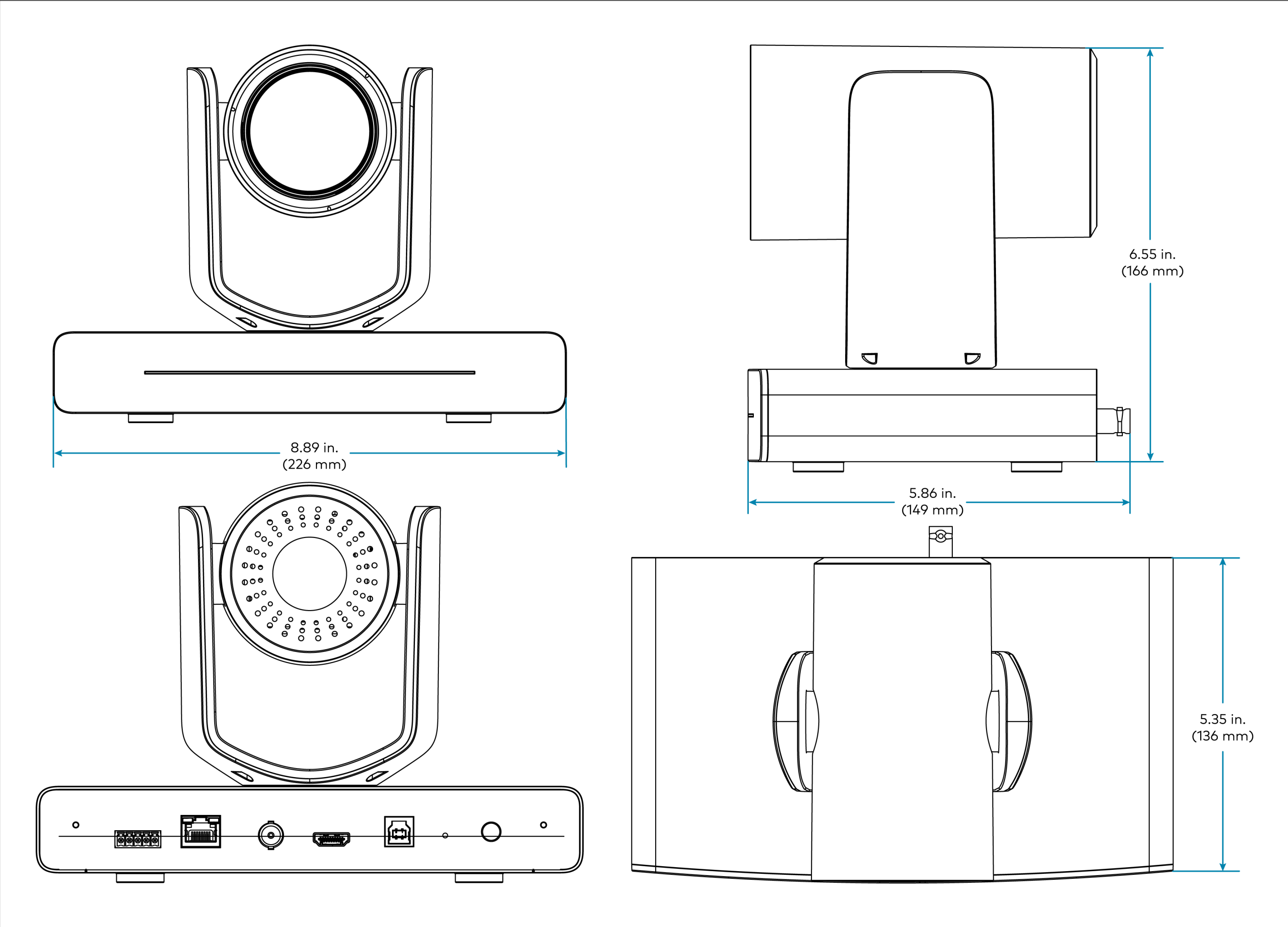
When mounting the monitor, be sure to use a wall-mount bracket that complies with the VESA-compatible mounting method. SHARP recommends using M8 screws and tighten the screws.  
Note that screw hole depth of the monitor is 9/16 inch (15 mm). Loose mounting may cause the product to fall, resulting in serious personal injuries as well as damage to the product. The screw and hole should come together with over 3/8 inch (10 mm) length of thread. Use a bracket which has been approved for UL1678 standard, and which can endure at least 4 times or more the weight of the monitor.



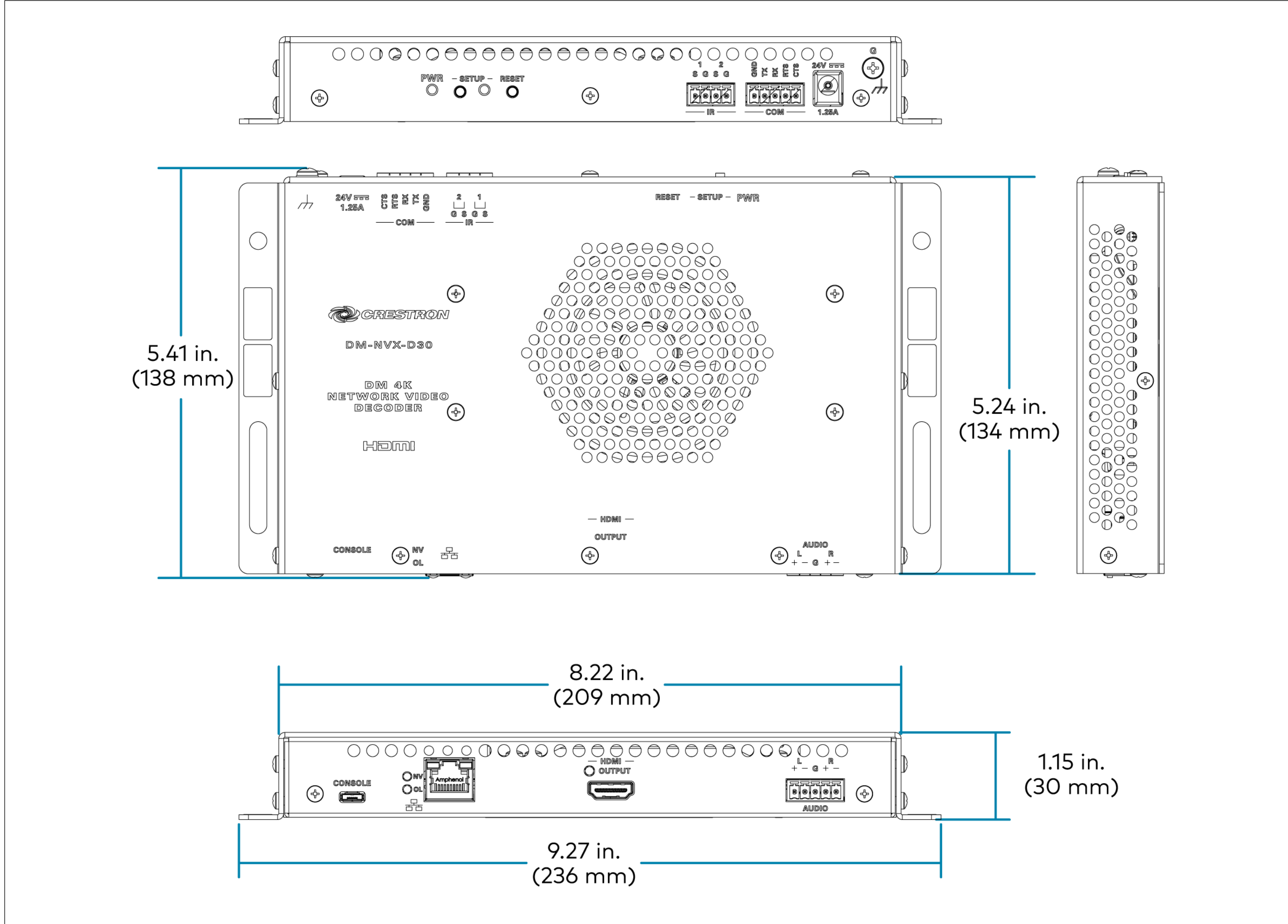
1 CRESTRON TS-1080-GV-B - TABLETOP TOUCH SCREEN



2 CRESTRON IV-CAM-P20-B - PTZ CAMERA



3 CRESTRON IV-CAM-P12-B - PTZ CAMERA

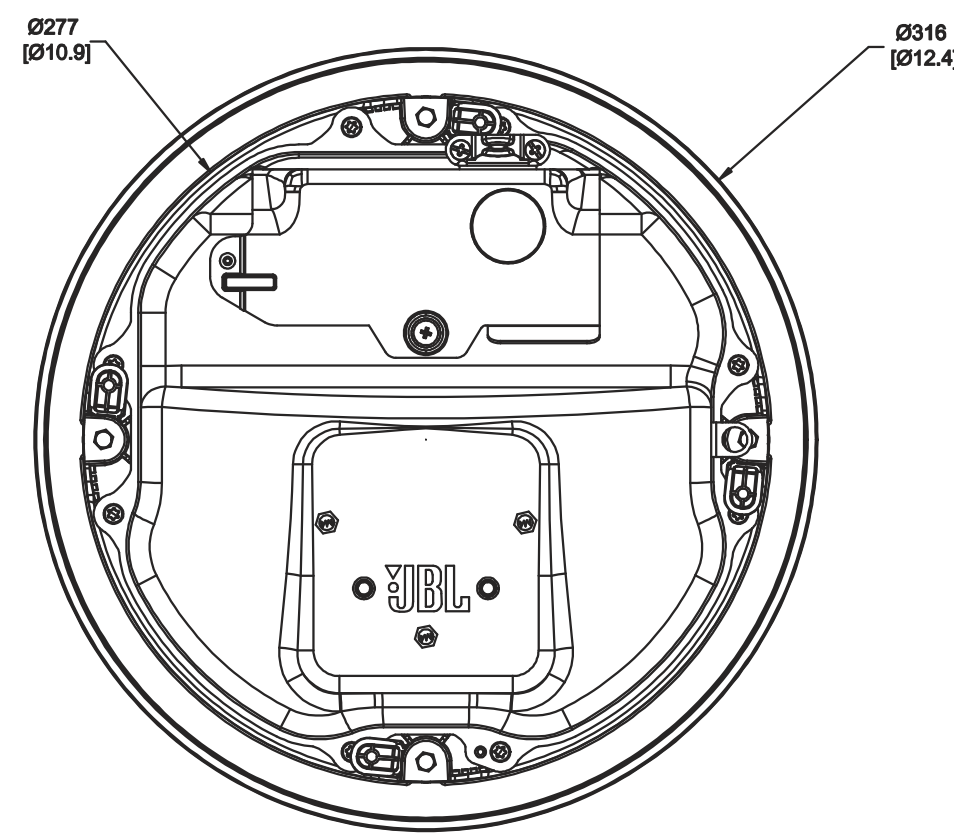


4 CRESTRON DM-NVX-D30 - NVX DECODER

|                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------|
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| ADDRESS                                                                                                              |
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| PROJECT                                                                                                              |
| INNOVATION LEARNING<br>STUDIO 216                                                                                    |
| AUDIO VISUAL SYSTEM INTEGRATOR                                                                                       |
|  <b>INTEGRATOR<br/>DRAFTWORKS</b> |
| AV SYSTEM DRAFTING<br>INTEGRATORDRAFTWORKS.COM<br>JAMESAVDRAFTING@GMAIL.COM<br>(505) 527-2959                        |
| DESCRIPTION                                                                                                          |
| AUDIO VISUAL SYSTEMS                                                                                                 |

| REVISIONS↓<br>(SEE AV-0.0 FOR REASON OF<br>REVISION) |              |                |
|------------------------------------------------------|--------------|----------------|
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| 10                                                   |              |                |
| ACCT. MANAGER:                                       |              | J. MCNEELY     |
| ENGINEER:                                            |              | J. MCNEELY     |
| REVIEWER:                                            |              | J. MCNEELY     |
| FIELD SERVICE<br>COORDINATOR:                        |              |                |
| PROJECT NUMBER:                                      |              |                |
| NATIVE SIZE:                                         |              | ARCH D (24X36) |
| ISSUED FOR:                                          |              |                |
| <input checked="" type="checkbox"/> REVIEW           | COORDINATION |                |
| <input type="checkbox"/> CONSTRUCTION                | AS-BUILT     |                |

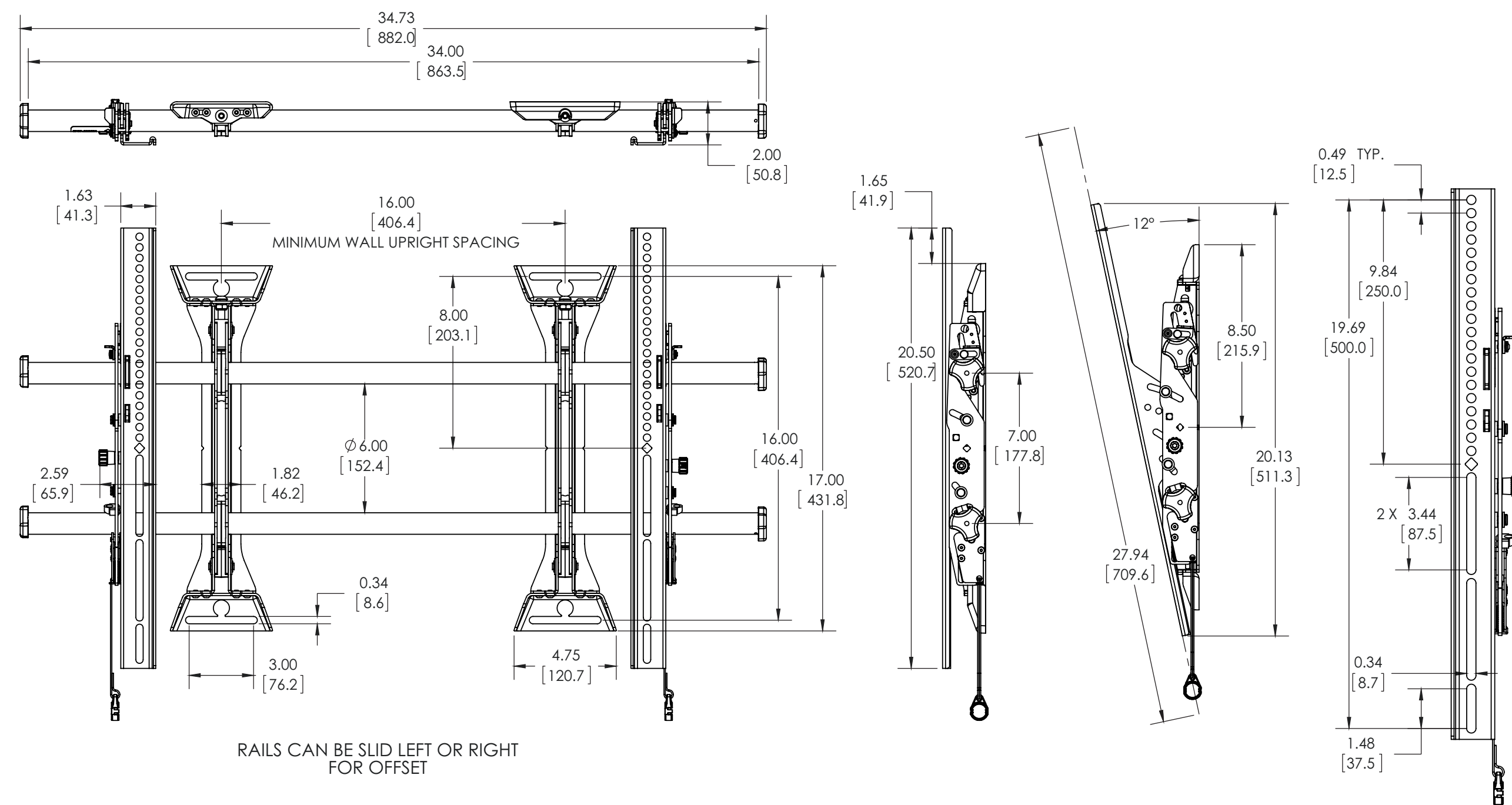
TITLE:  
CRESTRON DEVICE  
DETAILS



- A (Microphone flange): 0.41 in. (10.5 mm)
- B (Edge to edge): 23.77 in. (603.8 mm)
- C (Height): 2.15 in. (54.69 mm)

# 1 JBL CONTROL 447C/T - CEILING LOUDSPEAKER

2 SHURE MXA920W-S - CEILING ARRAY MICROPHONE  
AV-3.3



### 3 CHIEF LTM1U - TILT WALL MOUNT

## AUDIO VISUAL SYSTEMS

## AV - 3.3

## RFR SERIES

### REFERENCE MOBILE FURNITURE RACK

Uniquely styled furniture rack system that is optimized for easy integration and is ruggedly designed for years of trouble free room-to-room mobility

#### FEATURES

- Engineered for professional integration to ensure efficient installation
- Wide-body design allows for handy interior device mounting and cable management using optional tool-free LeverLock™ system
- Robust construction features bolt-through floor-friendly casters and internal steel bracing for years of reliable use
- Unique cable entry rear door and included cable spools allow easy storage of connecting cable bundle
- Advanced cooling for system reliability
- Optimized for passive ventilation featuring generous front air intake & rear exhaust vents
- Enable energy-saving active cooling with optional thermostatically-controlled DC blower panel. Quiet and powerful: 50 CFM, 27 dB
- Superior aesthetics complement any public space
- Architectural design incorporates a highly aesthetic and durable new finish, available in three finishes
- Attractive IR-friendly locking glass front door standard
- Available in 16, 20, and 24 rackspace sizes in 3 attractive colors: Black Cascade, Cherry Cascade, and Teak Cascade
- UL Listed (structural and tip) for support of audio/video equipment
- Ships fully assembled

#### SPECIFICATIONS

EIA compliant 19" mobile furniture equipment rack shall be Middle Atlantic Products model RFR-\_\_\_\_, 28" (see chart for available models). Overall dimensions of RFR shall be \_\_\_\_H x 23.3"W x 27.55"D (refer to chart). Useable height of RFR shall be \_\_\_\_ rackspace, useable depth shall be 23.31". RFR shall come equipped with one pair of adjustable steel rackrail with tapped 10-32 mounting holes in universal EIA spacing, black e-coat finish and numbered rackspace. RFR shall have bolt through 4" height casters. RFR shall have 4 casters total, with locking front casters. RFR shall have internal steel bracing. RFR shall be constructed of melamine and have a \_\_\_\_ finish (refer to chart). RFR shall have an understated top. RFR shall include a locking and latching IR friendly tempered glass front door. RFR shall include a locking and latching melamine rear door. RFR shall have rear venting, cable entry and cable spools. RFR shall have a 60 MM (2.375 in.) cable grommet on top, that accepts a monitor mount. RFR shall accept patent-pending LeverLock™ tool free and hardware free internal cable and device management system accessories. RFR shall provide a UL Listed load capacity of 350 lbs. mounted in the rack, 50 lbs. on top of the rack and 35 lbs. on the optional monitor mount. RFR shall be UL Listed in the US and Canada. RFR shall be manufactured by an ISO 9001 and ISO 14001 registered company. RFR enclosure shall be warrantied to be free from defects in material or workmanship under normal use and conditions 7 years.

EIA/TIA COMPLIANT

cULus



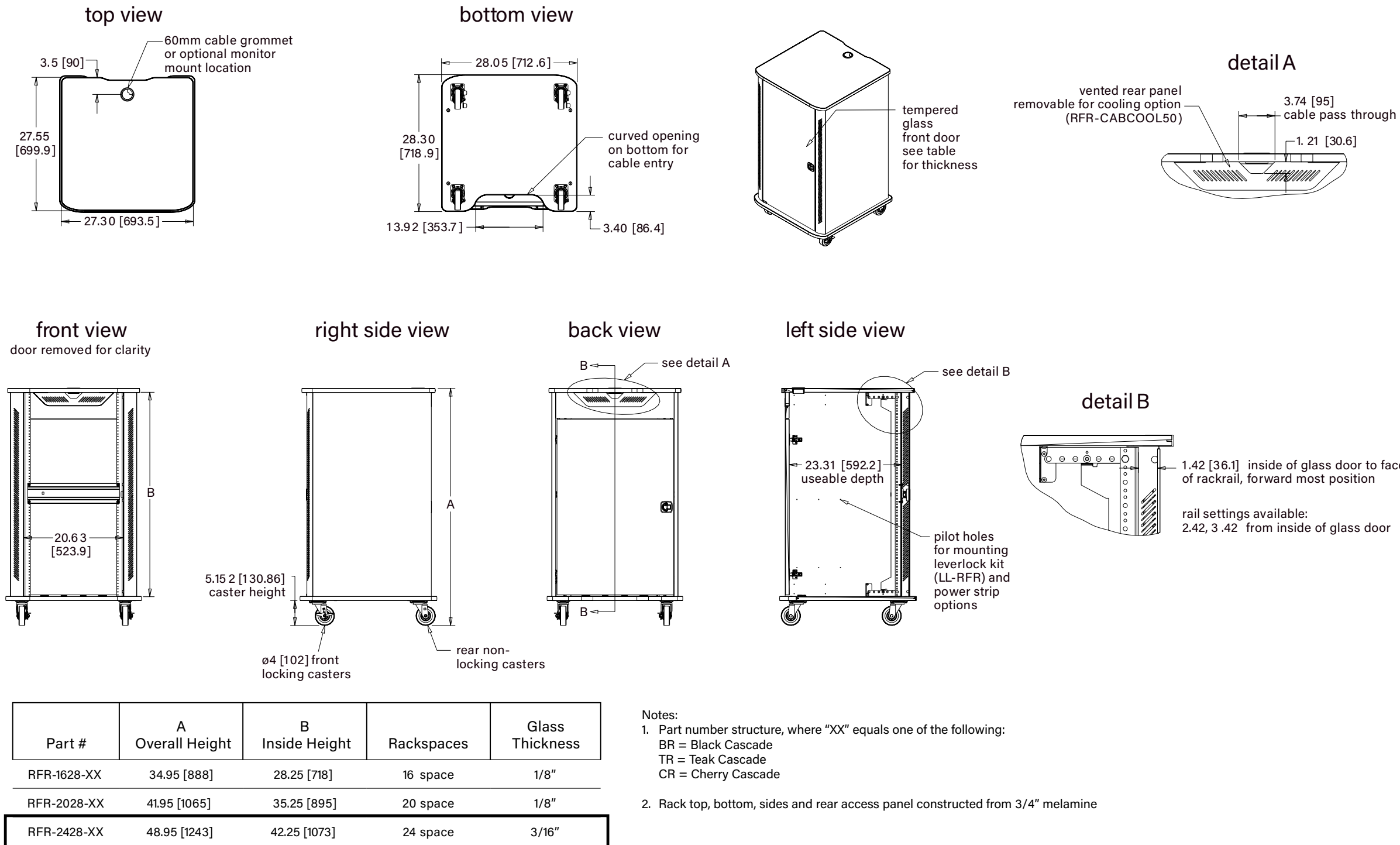
A brand of **legrand**

LEGRAND | AV COMMERCIAL BRANDS  
C2G | Chief | Da-Lite | Luxul | Middle Atlantic | Vaddio | Wiremold

96-0104 / 1-15-21

## RFR SERIES

### BASIC DIMENSIONS



A brand of **legrand**

LEGRAND | AV COMMERCIAL BRANDS  
C2G | Chief | Da-Lite | Luxul | Middle Atlantic | Vaddio | Wiremold

2

1

### RFR SERIES REFERENCE MOBILE FURNITURE RACK

RK-01 RFR-2428GE - MIDDLE ATLANTIC DATA SHEET

2

### RFR SERIES BASIC DIMENSIONS

ROW BOXED: RFR-2428 (RK-01)

#### RACK MANUFACTURER DIMENSIONS

| TAG   | MANUFACTURER / MODEL       | RACK SPACES | OVERALL W       | OVERALL D         | OVERALL H         | MOUNTING                                           |
|-------|----------------------------|-------------|-----------------|-------------------|-------------------|----------------------------------------------------|
| RK-01 | Middle Atlantic RFR-2428GE | 24U         | 27.3" (2'-3.3") | 27.55" (2'-3.55") | 48.95" (4'-0.95") | Reference furniture rack on casters, OFCI by Owner |

SOURCE: MIDDLE ATLANTIC RFR SERIES DATA SHEET (BASIC DIMENSIONS), RACK FURNISHED BY OWNER, ON CASTERS; AV EQUIPMENT INSTALLED BY THE AV CONTRACTOR.

CLIENT

SAMPLE STATE  
UNIVERSITY

#### ADDRESS

MAIN LIBRARY, 100 CAMPUS DRIVE  
ANYTOWN, USA 00000

#### PROJECT

INNOVATION LEARNING  
STUDIO 216

#### AUDIO VISUAL SYSTEM INTEGRATOR



AV SYSTEM DRAFTING  
INTEGRATOR DRAFTWORKS.COM  
JAMESAVDRAFTING@GMAIL.COM  
(505) 527-2959

#### DESCRIPTION

AUDIO VISUAL SYSTEMS

#### REVISIONS↓

(SEE AV-0.0 FOR REASON OF  
REVISION)

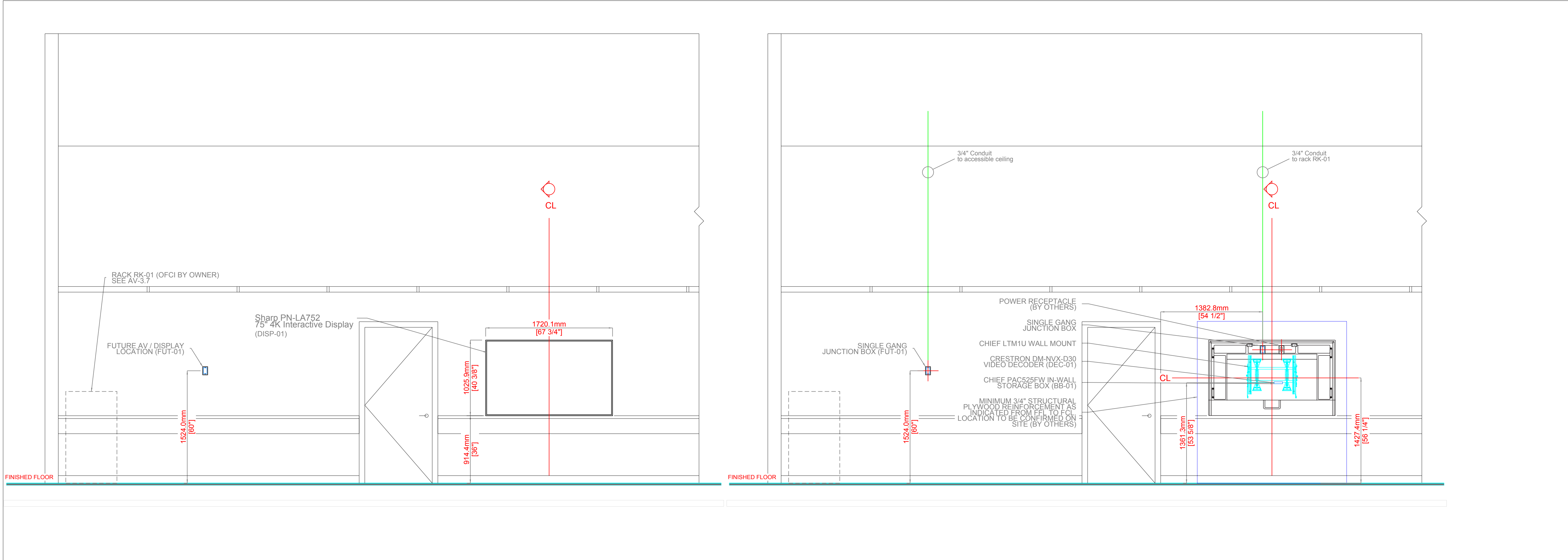
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|                            |                |
|----------------------------|----------------|
| ACCT. MANAGER:             | J. MCNEELY     |
| ENGINEER:                  | J. MCNEELY     |
| REVIEWER:                  | J. MCNEELY     |
| FIELD SERVICE COORDINATOR: |                |
| PROJECT NUMBER:            |                |
| NATIVE SIZE:               | ARCH D (24X36) |
| ISSUED FOR:                |                |
| X REVIEW                   | COORDINATION   |
| CONSTRUCTION               | AS-BUILT       |

#### TITLE:

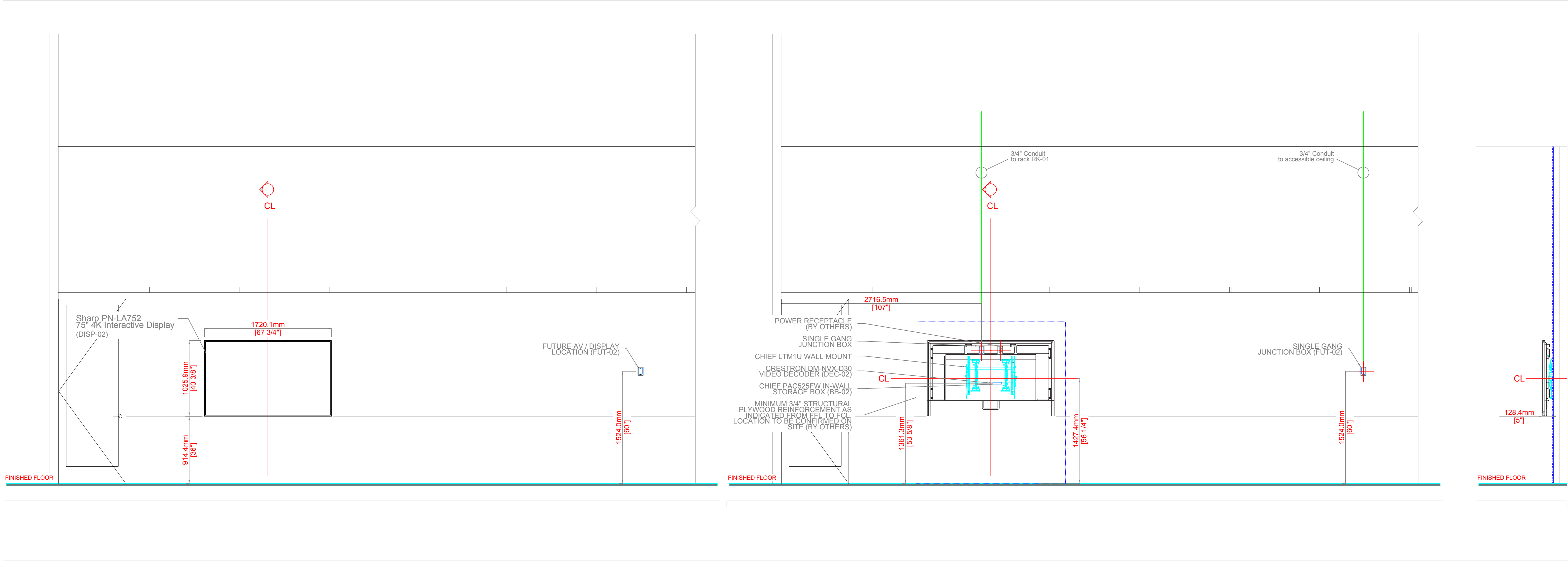
RACK MANUFACTURER  
DIMENSIONS

AV - 3.4



1 DISPLAY ELEVATIONS - NORTH

2 DISPLAY MOUNTING ELEVATIONS - NORTH



3 DISPLAY ELEVATIONS - SOUTH

4 DISPLAY MOUNTING ELEVATIONS - SOUTH

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INNOVATION LEARNING  
STUDIO 216

AUDIO VISUAL SYSTEM INTEGRATOR

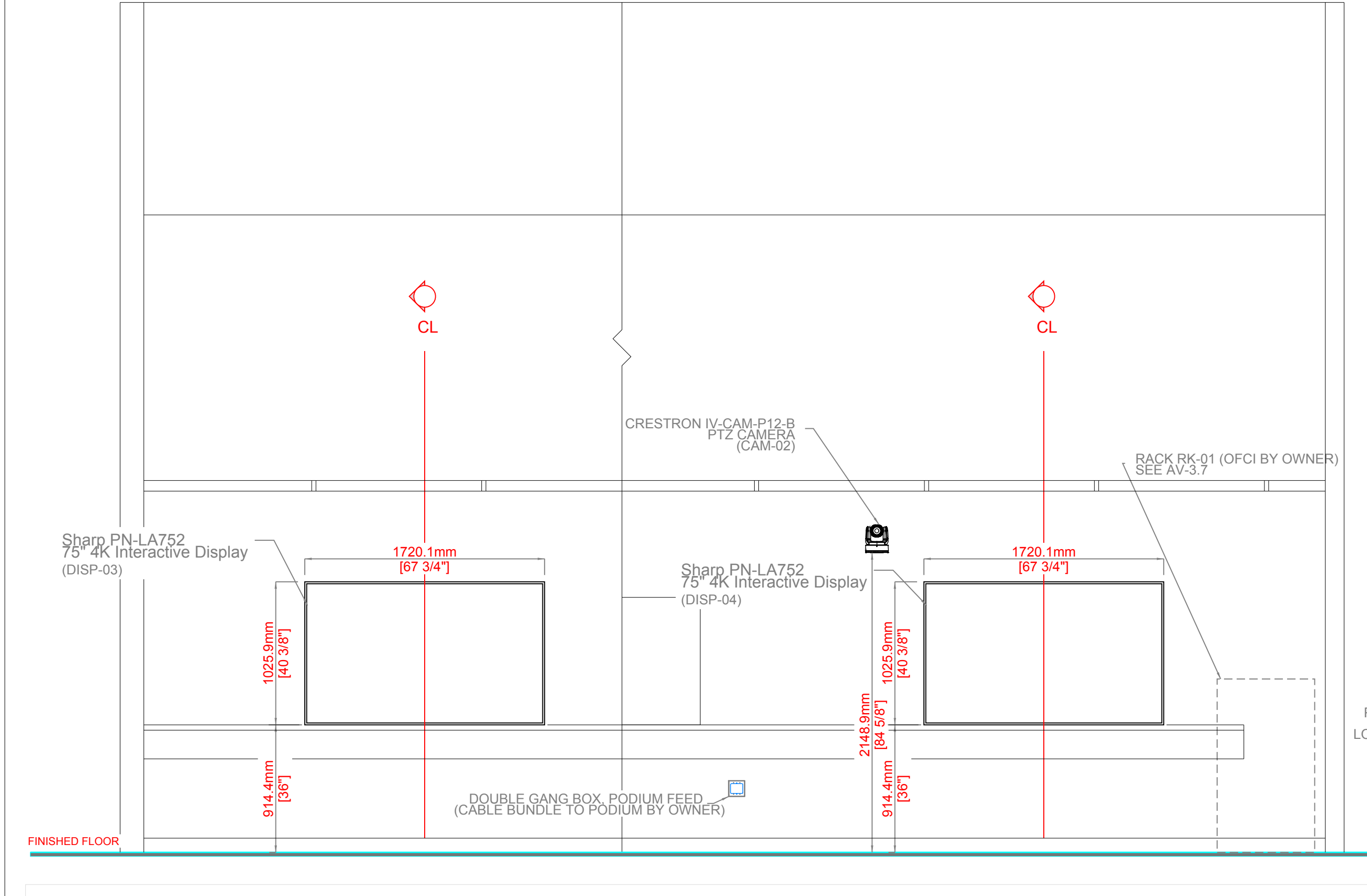
 **INTEGRATOR  
DRAFTWORKS**

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INTEGRATORDRAFTWORKS.COM  
JAMESAVDRAFTING@GMAIL.COM  
(505) 527-2959

DESCRIPTION

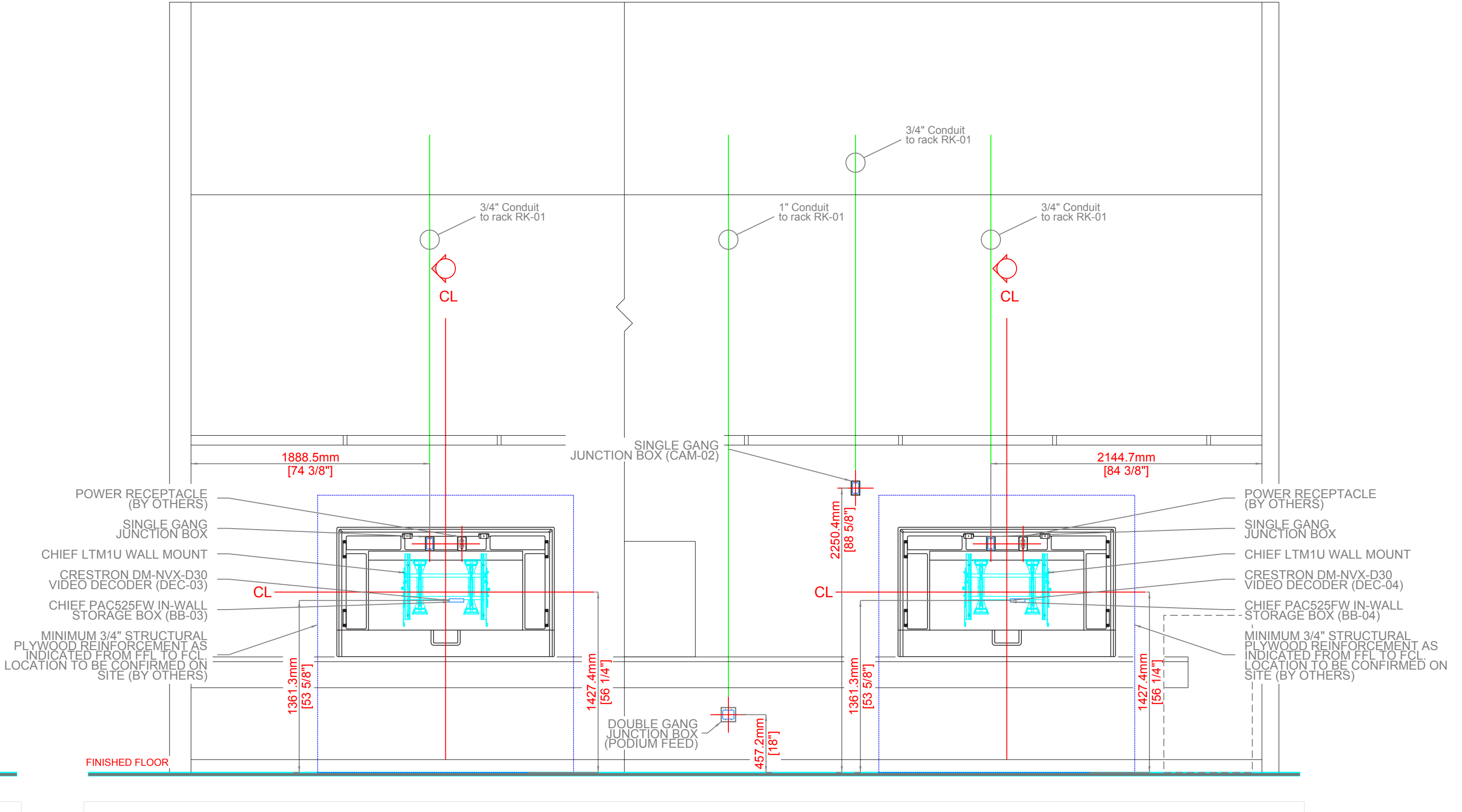
AUDIO VISUAL SYSTEMS

| REVISIONS↓<br>(SEE AV-0.0 FOR REASON OF REVISION) |              |                |
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| REV.                                              | DESCRIPTION  | YYYY/MM/DD     |
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| ACCT. MANAGER:                                    |              | J. MCNEELY     |
| ENGINEER:                                         |              | J. MCNEELY     |
| REVIEWER:                                         |              | J. MCNEELY     |
| FIELD SERVICE COORDINATOR:                        |              |                |
| PROJECT NUMBER:                                   |              |                |
| NATIVE SIZE:                                      |              | ARCH D (24X36) |
| ISSUED FOR:                                       |              |                |
| <input checked="" type="checkbox"/>               | REVIEW       | COORDINATION   |
| <input type="checkbox"/>                          | CONSTRUCTION | AS-BUILT       |
| TITLE:                                            |              |                |
| DISPLAY ELEVATIONS - NORTH & SOUTH                |              |                |
| AV - 3.5                                          |              |                |



1  
AV-3.6

DISPLAY ELEVATIONS - WEST



2  
AV-3.6

DISPLAY MOUNTING ELEVATIONS - WEST

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INNOVATION LEARNING  
STUDIO 216

AUDIO VISUAL SYSTEM INTEGRATOR

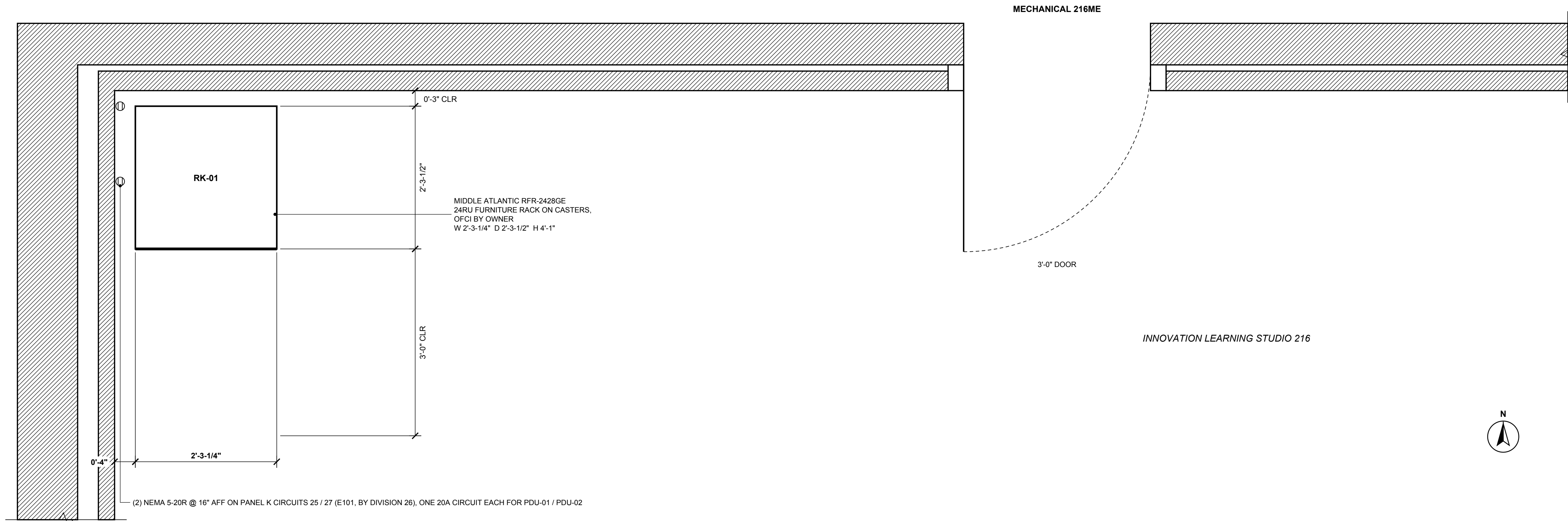
 **INTEGRATOR  
DRAFTWORKS**

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INTEGRATORDRAFTWORKS.COM  
JAMESAVDRAFTING@GMAIL.COM  
(505) 527-2959

DESCRIPTION

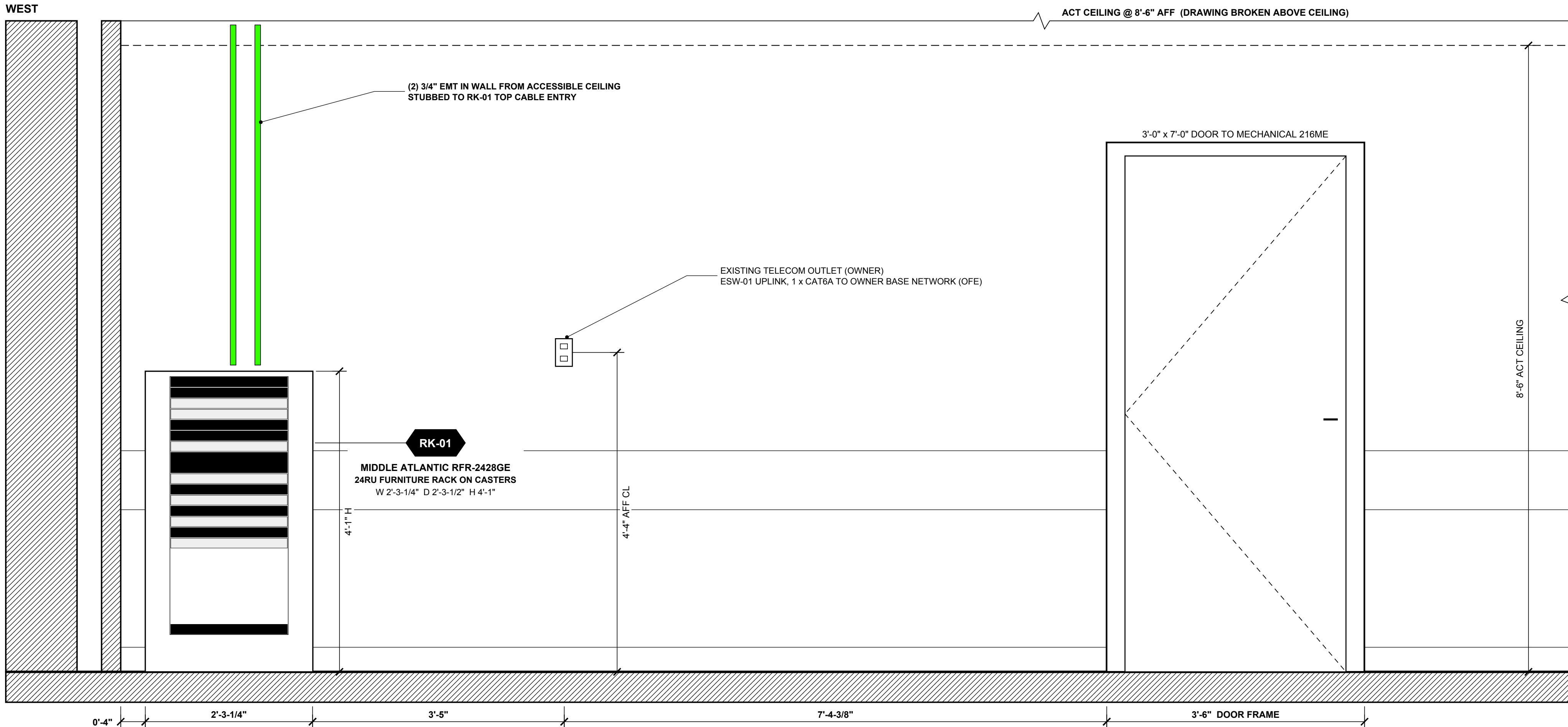
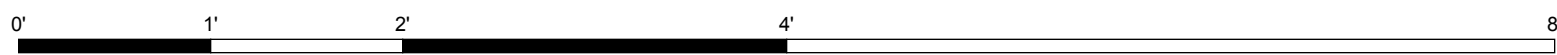
AUDIO VISUAL SYSTEMS

| REVISIONS↓<br>(SEE AV-0.0 FOR REASON OF REVISION) |              |                |
|---------------------------------------------------|--------------|----------------|
| REV.                                              | DESCRIPTION  | YYYY/MM/DD     |
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| 10                                                |              |                |
| ACCT. MANAGER:                                    |              | J. MCNEELY     |
| ENGINEER:                                         |              | J. MCNEELY     |
| REVIEWER:                                         |              | J. MCNEELY     |
| FIELD SERVICE COORDINATOR:                        |              |                |
| PROJECT NUMBER:                                   |              |                |
| NATIVE SIZE:                                      |              | ARCH D (24X36) |
| ISSUED FOR:                                       |              |                |
| <input checked="" type="checkbox"/>               | REVIEW       | COORDINATION   |
| <input type="checkbox"/>                          | CONSTRUCTION | AS-BUILT       |
| TITLE:                                            |              |                |
| DISPLAY ELEVATIONS - WEST                         |              |                |
| AV - 3.6                                          |              |                |



1 PLAN - RACK RK-01 IN NORTH-WEST CORNER OF STUDIO 216

SCALE: 1" = 1'-0"



2 ELEVATION - NORTH WALL LOOKING NORTH AT RACK RK-01

SCALE: 1" = 1'-0"



EQUIPMENT SCHEDULE

| TAG   | DESCRIPTION                                  | MANUFACTURER / MODEL       | W         | D         | H     | QTY |
|-------|----------------------------------------------|----------------------------|-----------|-----------|-------|-----|
| RK-01 | Furniture rack 24U on casters, OFCI by Owner | Middle Atlantic RFR-2428GE | 2'-3-1/4" | 2'-3-1/2" | 4'-1" | 1   |

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PROJECT

INNOVATION LEARNING  
STUDIO 216

AUDIO VISUAL SYSTEM INTEGRATOR



AV SYSTEM DRAFTING  
INTEGRATORDRAFTWORKS.COM  
JAMESAVDRAFTING@GMAIL.COM  
(505) 527-2959

DESCRIPTION

AUDIO VISUAL SYSTEMS

REVISIONS↓

(SEE AV-0.0 FOR REASON OF  
REVISION)

| REV. | DESCRIPTION | YYYY/MM/DD |
|------|-------------|------------|
| 1    | FOR REVIEW  | 2026-10-10 |
| 2    |             |            |
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ACCT. MANAGER: J. MCNEELY

ENGINEER: J. MCNEELY

REVIEWER: J. MCNEELY

FIELD SERVICE  
COORDINATOR:

PROJECT NUMBER:

NATIVE SIZE: ARCH D (24X36)

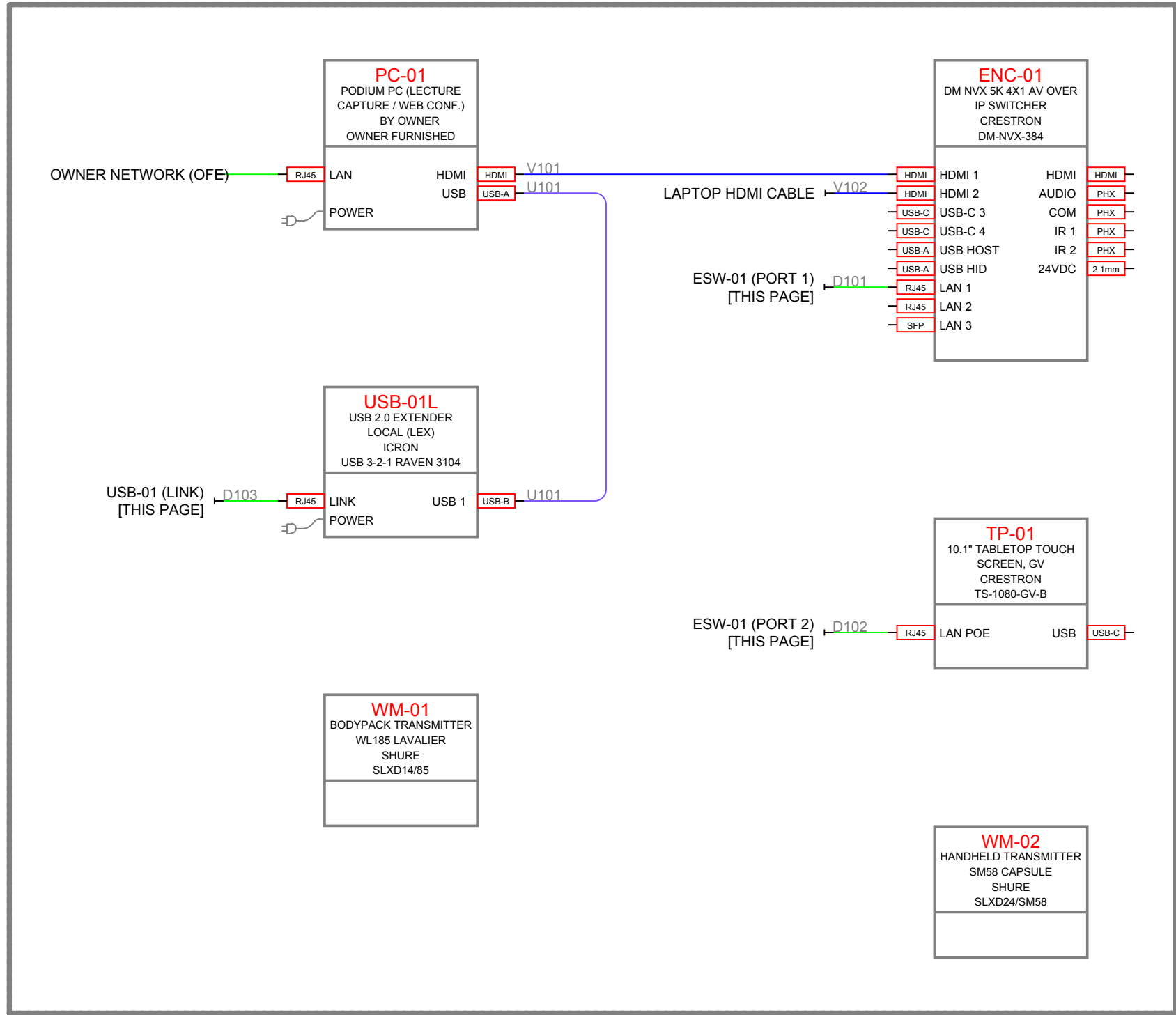
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| X | REVIEW       | COORDINATION |
|   | CONSTRUCTION | AS-BUILT     |

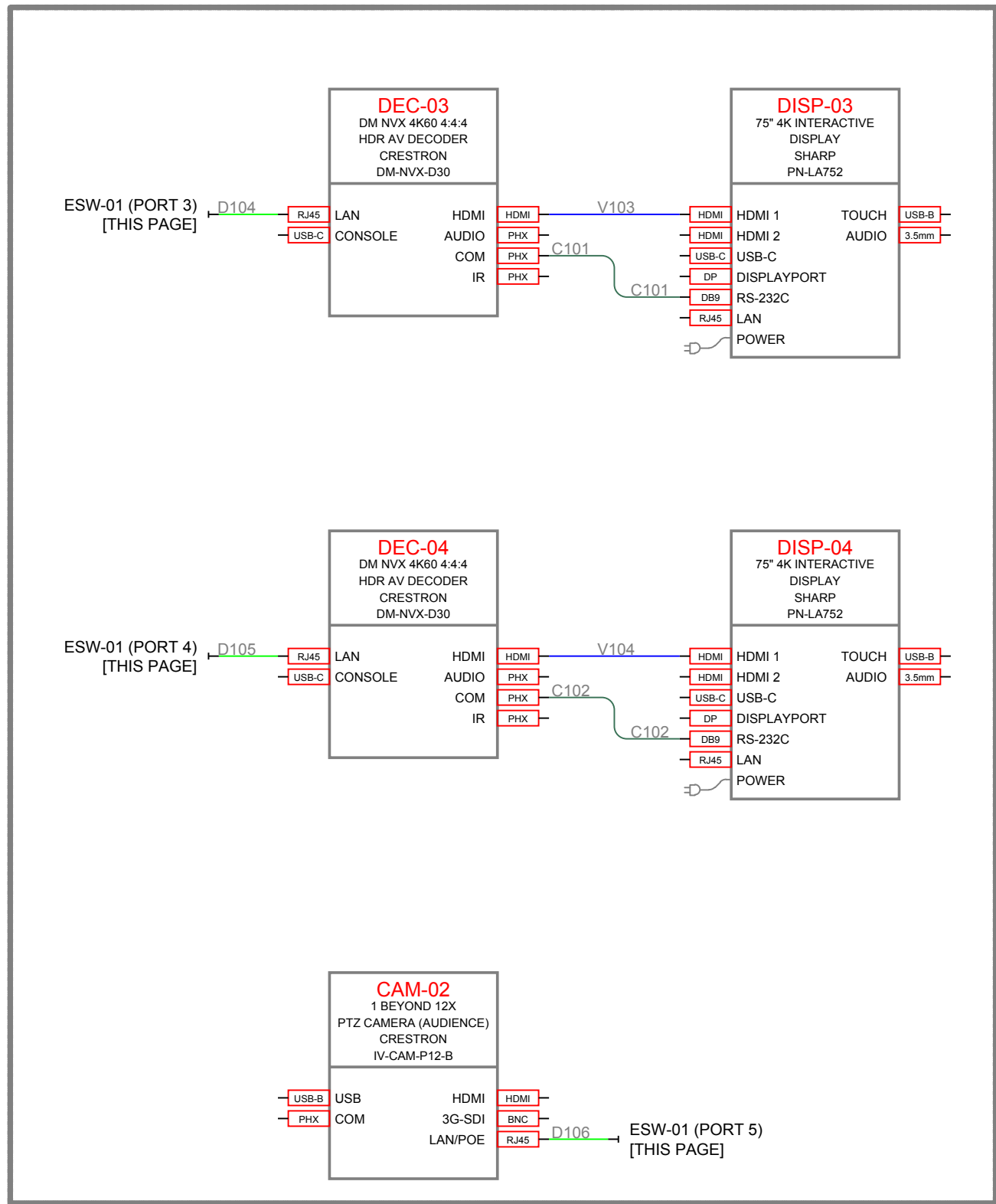
TITLE:

RACK RK-01 -  
LAYOUT

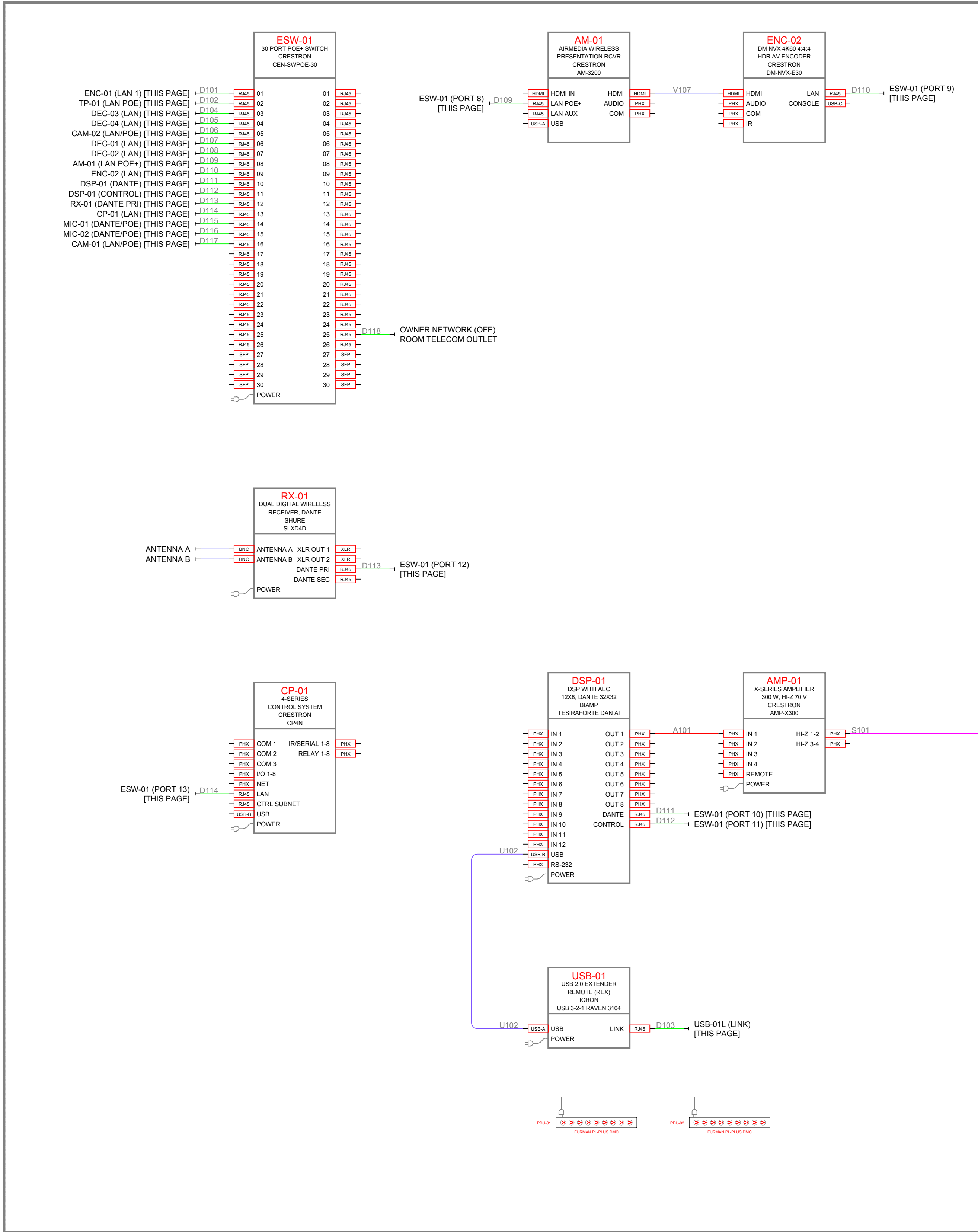
AV - 3.7



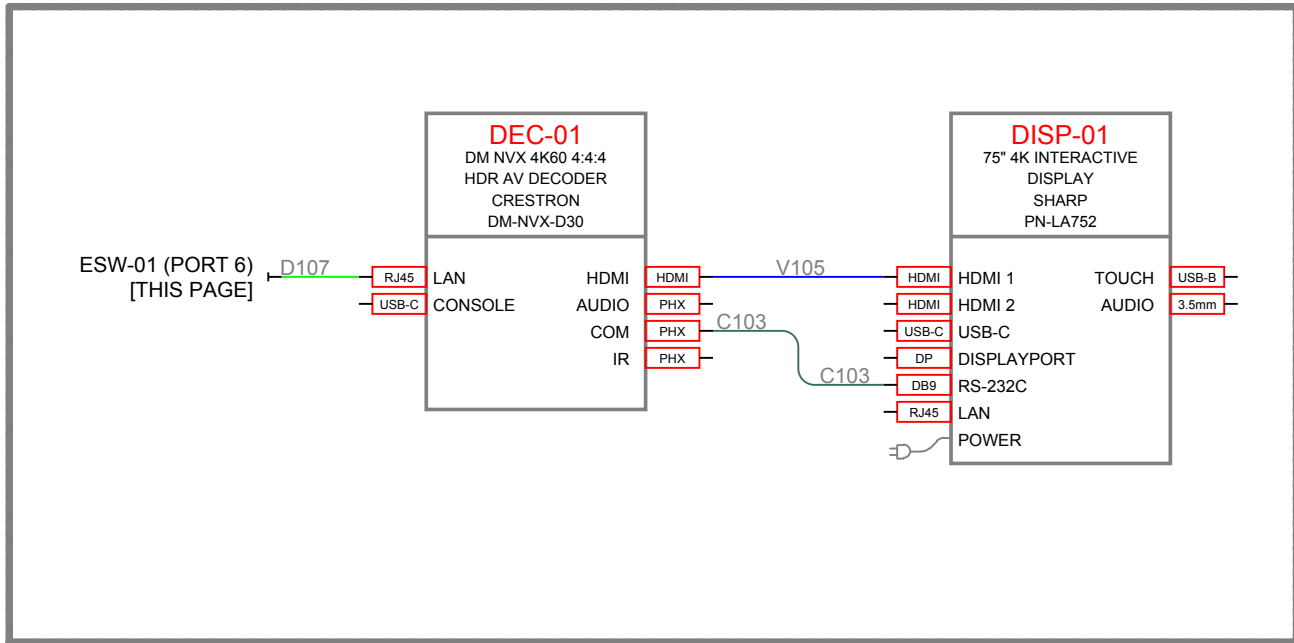
PODIUM - 216



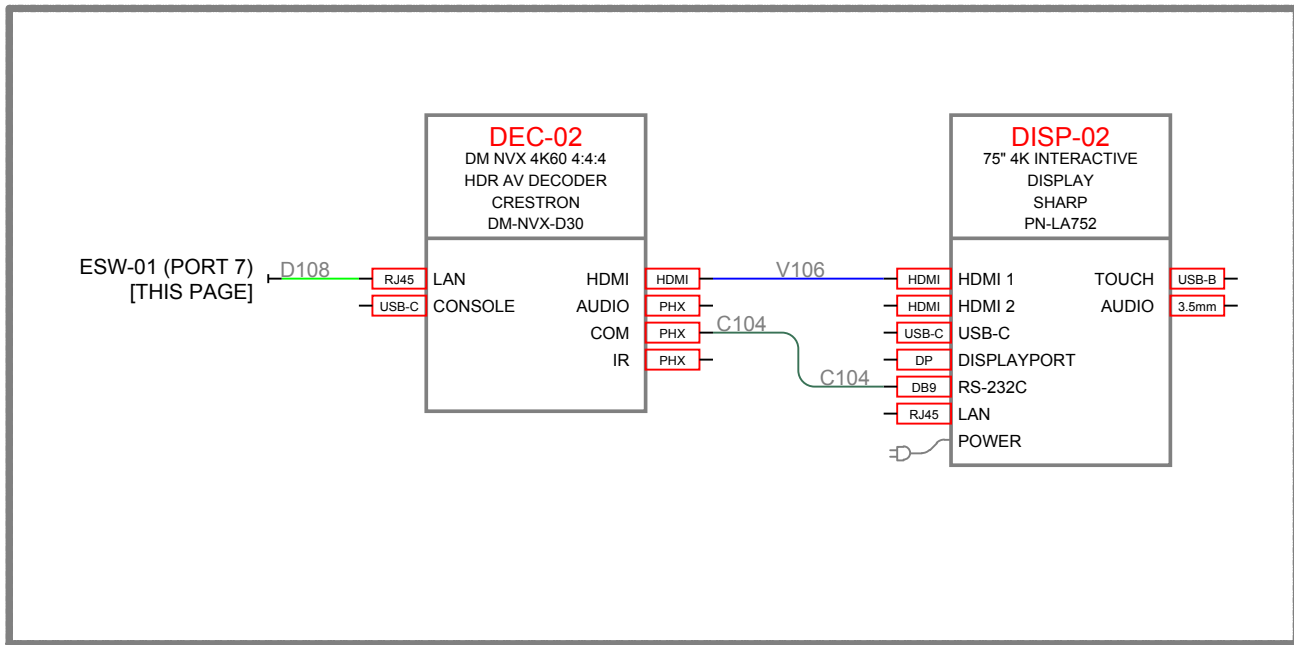
WEST WALL - 216



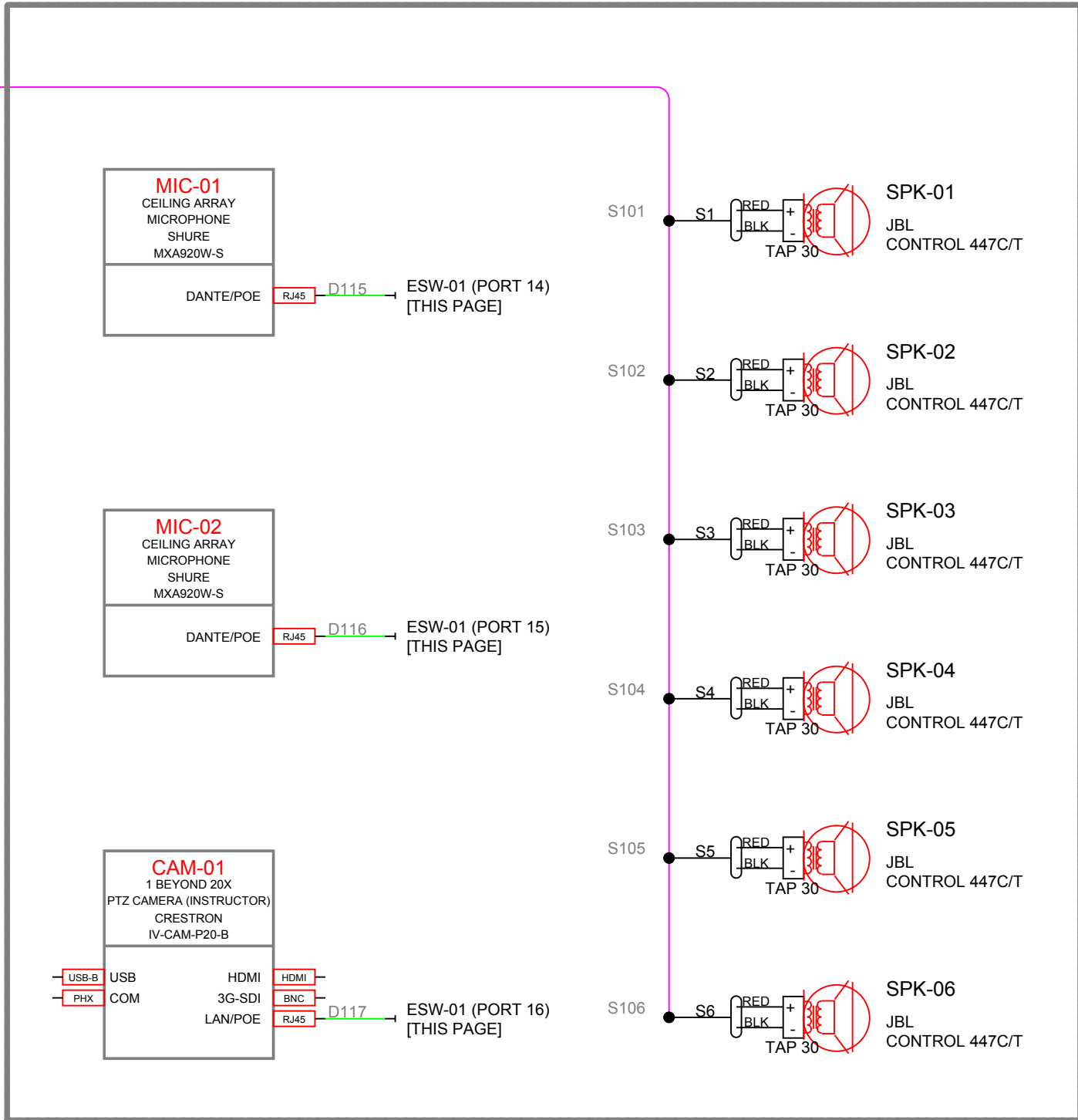
RACK RK-01 - NW CORNER 216



NORTH WALL - 216



SOUTH WALL - 216



CEILING - 216

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|                                            |                                       |
|--------------------------------------------|---------------------------------------|
| ACCT. MANAGER:                             | J. MCNEELY                            |
| ENGINEER:                                  | J. MCNEELY                            |
| REVIEWER:                                  | J. MCNEELY                            |
| FIELD SERVICE<br>COORDINATOR:              |                                       |
| PROJECT NUMBER:                            |                                       |
| NATIVE SIZE:                               | ARCH D (24X36)                        |
| ISSUED FOR:                                |                                       |
| <input checked="" type="checkbox"/> REVIEW | <input type="checkbox"/> COORDINATION |
| <input type="checkbox"/> CONSTRUCTION      | <input type="checkbox"/> AS-BUILT     |

TITLE:  
SIGNAL FLOW DIAGRAM -  
INNOV. LEARNING STUDIO 216

AV - 4.0

| CABLE: | CABLE TYPE:      | IDENTIFIER:   | SOURCE:                          | LOCATION:                      |  | IDENTIFIER: | DESTINATION:               | LOCATION:                    | NOTES:             |
|--------|------------------|---------------|----------------------------------|--------------------------------|--|-------------|----------------------------|------------------------------|--------------------|
| A101   | LINE LEVEL AUDIO | DSP-01        | BIAMP TESIRAFORTE DAN AI         | RK-01 NW CORNER 216            |  | AMP-01      | CRESTRON AMP-X300          | RK-01 NW CORNER 216          | Belden 9451P       |
|        |                  |               |                                  |                                |  |             |                            |                              |                    |
| C101   | RS232 CONTROL    | DEC-03        | CRESTRON DM-NVX-D30              | WEST WALL                      |  | DISP-03     | SHARP PN-LA752             | WEST WALL                    | Belden 6502FE      |
| C102   | RS232 CONTROL    | DEC-04        | CRESTRON DM-NVX-D30              | WEST WALL                      |  | DISP-04     | SHARP PN-LA752             | WEST WALL                    | Belden 6502FE      |
| C103   | RS232 CONTROL    | DEC-01        | CRESTRON DM-NVX-D30              | NORTH WALL                     |  | DISP-01     | SHARP PN-LA752             | NORTH WALL                   | Belden 6502FE      |
| C104   | RS232 CONTROL    | DEC-02        | CRESTRON DM-NVX-D30              | SOUTH WALL                     |  | DISP-02     | SHARP PN-LA752             | SOUTH WALL                   | Belden 6502FE      |
|        |                  |               |                                  |                                |  |             |                            |                              |                    |
| D101   | CAT6A            | ESW-01        | CRESTRON CEN-SWPOE-30            | RK-01 NW CORNER 216            |  | ENC-01      | CRESTRON DM-NVX-384        | PODIUM                       | Belden 10GXS13     |
| D102   | CAT6A            | ESW-01        | CRESTRON CEN-SWPOE-30            | RK-01 NW CORNER 216            |  | TP-01       | CRESTRON TS-1080-GV-B      | PODIUM                       | Belden 10GXS13     |
| D103   | CAT6A            | USB-01        | ICRON USB 3-2-1 RAVEN 3104       | RK-01 NW CORNER 216            |  | USB-01L     | ICRON USB 3-2-1 RAVEN 3104 | PODIUM                       | Belden 10GXS13     |
| D104   | CAT6A            | ESW-01        | CRESTRON CEN-SWPOE-30            | RK-01 NW CORNER 216            |  | DEC-03      | CRESTRON DM-NVX-D30        | WEST WALL                    | Belden 10GXS13     |
| D105   | CAT6A            | ESW-01        | CRESTRON CEN-SWPOE-30            | RK-01 NW CORNER 216            |  | DEC-04      | CRESTRON DM-NVX-D30        | WEST WALL                    | Belden 10GXS13     |
| D106   | CAT6A            | ESW-01        | CRESTRON CEN-SWPOE-30            | RK-01 NW CORNER 216            |  | CAM-02      | CRESTRON IV-CAM-P12-B      | WEST WALL ABOVE DISPLAY LINE | Belden 10GXS13     |
| D107   | CAT6A            | ESW-01        | CRESTRON CEN-SWPOE-30            | RK-01 NW CORNER 216            |  | DEC-01      | CRESTRON DM-NVX-D30        | NORTH WALL                   | Belden 10GXS13     |
| D108   | CAT6A            | ESW-01        | CRESTRON CEN-SWPOE-30            | RK-01 NW CORNER 216            |  | DEC-02      | CRESTRON DM-NVX-D30        | SOUTH WALL                   | Belden 10GXS13     |
| D109   | CAT6A            | ESW-01        | CRESTRON CEN-SWPOE-30            | RK-01 NW CORNER 216            |  | AM-01       | CRESTRON AM-3200           | RK-01 NW CORNER 216          | Belden 10GXS13     |
| D110   | CAT6A            | ESW-01        | CRESTRON CEN-SWPOE-30            | RK-01 NW CORNER 216            |  | ENC-02      | CRESTRON DM-NVX-E30        | RK-01 NW CORNER 216          | Belden 10GXS13     |
| D111   | CAT6A            | ESW-01        | CRESTRON CEN-SWPOE-30            | RK-01 NW CORNER 216            |  | DSP-01      | BIAMP TESIRAFORTE DAN AI   | RK-01 NW CORNER 216          | Belden 10GXS13     |
| D112   | CAT6A            | ESW-01        | CRESTRON CEN-SWPOE-30            | RK-01 NW CORNER 216            |  | DSP-01      | BIAMP TESIRAFORTE DAN AI   | RK-01 NW CORNER 216          | Belden 10GXS13     |
| D113   | CAT6A            | ESW-01        | CRESTRON CEN-SWPOE-30            | RK-01 NW CORNER 216            |  | RX-01       | SHURE SLXD4D               | RK-01 NW CORNER 216          | Belden 10GXS13     |
| D114   | CAT6A            | ESW-01        | CRESTRON CEN-SWPOE-30            | RK-01 NW CORNER 216            |  | CP-01       | CRESTRON CP4N              | RK-01 NW CORNER 216          | Belden 10GXS13     |
| D115   | CAT6A            | ESW-01        | CRESTRON CEN-SWPOE-30            | RK-01 NW CORNER 216            |  | MIC-01      | SHURE MXA920W-S            | CEILING                      | Belden 10GXS13     |
| D116   | CAT6A            | ESW-01        | CRESTRON CEN-SWPOE-30            | RK-01 NW CORNER 216            |  | MIC-02      | SHURE MXA920W-S            | CEILING                      | Belden 10GXS13     |
| D117   | CAT6A            | ESW-01        | CRESTRON CEN-SWPOE-30            | RK-01 NW CORNER 216            |  | CAM-01      | CRESTRON IV-CAM-P20-B      | CEILING, EAST (REAR) OF ROOM | Belden 10GXS13     |
| D118   | CAT6A            | OWNER NETWORK | OWNER BASE NETWORK (OFE BY OWNER | ROOM TELECOM OUTLET NEAR RK-01 |  | ESW-01      | CRESTRON CEN-SWPOE-30      | RK-01 NW CORNER 216          | Belden 10GXS13     |
|        |                  |               |                                  |                                |  |             |                            |                              |                    |
| S101   | 70V SPEAKER      | AMP-01        | CRESTRON AMP-X300                | RK-01 NW CORNER 216            |  | SPK-01      | JBL CONTROL 447C/T         | CEILING                      | Belden 6100UE      |
| S102   | 70V SPEAKER      | SPK-01        | JBL CONTROL 447C/T               | CEILING                        |  | SPK-02      | JBL CONTROL 447C/T         | CEILING                      | Belden 6100UE      |
| S103   | 70V SPEAKER      | SPK-02        | JBL CONTROL 447C/T               | CEILING                        |  | SPK-03      | JBL CONTROL 447C/T         | CEILING                      | Belden 6100UE      |
| S104   | 70V SPEAKER      | SPK-03        | JBL CONTROL 447C/T               | CEILING                        |  | SPK-04      | JBL CONTROL 447C/T         | CEILING                      | Belden 6100UE      |
| S105   | 70V SPEAKER      | SPK-04        | JBL CONTROL 447C/T               | CEILING                        |  | SPK-05      | JBL CONTROL 447C/T         | CEILING                      | Belden 6100UE      |
| S106   | 70V SPEAKER      | SPK-05        | JBL CONTROL 447C/T               | CEILING                        |  | SPK-06      | JBL CONTROL 447C/T         | CEILING                      | Belden 6100UE      |
|        |                  |               |                                  |                                |  |             |                            |                              |                    |
| U101   | USB              | USB-01L       | ICRON USB 3-2-1 RAVEN 3104       | PODIUM                         |  | PC-01       | OWNER FURNISHED            | PODIUM                       | USB 2.0 Patch      |
| U102   | USB              | DSP-01        | BIAMP TESIRAFORTE DAN AI         | RK-01 NW CORNER 216            |  | USB-01      | ICRON USB 3-2-1 RAVEN 3104 | RK-01 NW CORNER 216          | USB 2.0 Patch      |
|        |                  |               |                                  |                                |  |             |                            |                              |                    |
| V101   | HDMI             | PC-01         | OWNER FURNISHED                  | PODIUM                         |  | ENC-01      | CRESTRON DM-NVX-384        | PODIUM                       | Crestron CBL-8K-HD |
| V102   | HDMI             | LAPTOP        | USER FURNISHED                   | PODIUM                         |  | ENC-01      | CRESTRON DM-NVX-384        | PODIUM                       | Crestron CBL-8K-HD |
| V103   | HDMI             | DEC-03        | CRESTRON DM-NVX-D30              | WEST WALL                      |  | DISP-03     | SHARP PN-LA752             | WEST WALL                    | Crestron CBL-8K-HD |
| V104   | HDMI             | DEC-04        | CRESTRON DM-NVX-D30              | WEST WALL                      |  | DISP-04     | SHARP PN-LA752             | WEST WALL                    | Crestron CBL-8K-HD |
| V105   | HDMI             | DEC-01        | CRESTRON DM-NVX-D30              | NORTH WALL                     |  | DISP-01     | SHARP PN-LA752             | NORTH WALL                   | Crestron CBL-8K-HD |
| V106   | HDMI             | DEC-02        | CRESTRON DM-NVX-D30              | SOUTH WALL                     |  | DISP-02     | SHARP PN-LA752             | SOUTH WALL                   | Crestron CBL-8K-HD |
| V107   | HDMI             | AM-01         | CRESTRON AM-3200                 | RK-01 NW CORNER 216            |  | ENC-02      | CRESTRON DM-NVX-E30        | RK-01 NW CORNER 216          | Crestron CBL-8K-HD |

|                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CLIENT                                                                                                                                                                                                                                                    |
| SAMPLE STATE UNIVERSITY                                                                                                                                                                                                                                   |
| ADDRESS                                                                                                                                                                                                                                                   |
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| PROJECT                                                                                                                                                                                                                                                   |
| INNOVATION LEARNING<br>STUDIO 216                                                                                                                                                                                                                         |
| AUDIO VISUAL SYSTEM INTEGRATOR                                                                                                                                                                                                                            |
| <div><div></div><div>INTEGRATOR<br/>DRAFTWORKS</div></div> <div>AV SYSTEM DRAFTING<br/>INTEGRATORDRAFTWORKS.COM<br/>JAMESAVDRAFTING@GMAIL.COM<br/>(505) 527-2959</div> |
| DESCRIPTION                                                                                                                                                                                                                                               |
| AUDIO VISUAL SYSTEMS                                                                                                                                                                                                                                      |

|                                                   |              |                |
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| ACCT. MANAGER:                                    |              | J. MCNEELY     |
| ENGINEER:                                         |              | J. MCNEELY     |
| REVIEWER:                                         |              | J. MCNEELY     |
| FIELD SERVICE COORDINATOR:                        |              |                |
| PROJECT NUMBER:                                   |              |                |
| NATIVE SIZE:                                      |              | ARCH D (24X36) |
| ISSUED FOR:                                       |              |                |
| X                                                 | REVIEW       | COORDINATION   |
|                                                   | CONSTRUCTION | AS-BUILT       |
| TITLE:                                            |              |                |
| CABLE SCHEDULE -<br>INNOV. LEARNING STUDIO 216    |              |                |
| AV - 5.0                                          |              |                |

TOTAL AND FINAL BTU CALCULATIONS TO BE  
DONE IN AS-BUILTS

| DEVICE                        | RU | WATTS  | QTY | BTU     |
|-------------------------------|----|--------|-----|---------|
| FURMAN PL-PLUS DMC            | 1  | 12.00  | 2   | 81.89   |
| CRESTRON CEN-SWPOE-30         | 1  | 614.00 | 1   | 2094.97 |
| CRESTRON CP4N                 | 1  | 15.00  | 1   | 51.18   |
| BIAMP TESIRAFORTE DAN AI      | 1  | 35.00  | 1   | 119.42  |
| CRESTRON AMP-X300             | 2  | 368.94 | 1   | 1258.82 |
| SHURE SLXD4D                  | 1  | 9.00   | 1   | 30.71   |
| CRESTRON AM-3200              | 1  | 30.00  | 1   | 102.36  |
| CRESTRON DM-NVX-E30           | 0  | 30.00  | 1   | 102.36  |
| ICRON RAVEN 3104 REMOTE       | 1  | 65.04  | 1   | 221.92  |
| MIDDLE ATLANTIC RFR-CABCOOL50 | 0  | 6.60   | 1   | 22.52   |
|                               |    |        |     |         |
| TOTAL BTU PER HOUR            |    |        |     | 4086.15 |

TOTAL AND FINAL POWER CALCULATIONS TO BE  
DONE IN AS-BUILTS

| DEVICE                               | RU                            | WATTS   | QTY | AMPS |
|--------------------------------------|-------------------------------|---------|-----|------|
| FURMAN PL-PLUS DMC                   | 1                             | 12.00   | 2   | 0.20 |
| CRESTRON CEN-SWPOE-30                | 1                             | 614.00  | 1   | 5.12 |
| CRESTRON CP4N                        | 1                             | 15.00   | 1   | 0.13 |
| BIAMP TESIRAFORTE DAN AI             | 1                             | 35.00   | 1   | 0.29 |
| CRESTRON AMP-X300                    | 2                             | 368.94  | 1   | 3.07 |
| SHURE SLXD4D                         | 1                             | 9.00    | 1   | 0.08 |
| CRESTRON AM-3200                     | 1                             | 30.00   | 1   | 0.25 |
| CRESTRON DM-NVX-E30                  | 0                             | 30.00   | 1   | 0.25 |
| ICRON RAVEN 3104 REMOTE              | 1                             | 65.04   | 1   | 0.54 |
| MIDDLE ATLANTIC RFR-CABCOOL50        | 0                             | 6.60    | 1   | 0.06 |
|                                      |                               |         |     |      |
| TOTAL WATTS                          |                               | 1197.58 |     |      |
| TOTAL AMPS @ 120 V                   |                               |         |     | 9.99 |
| POWER CONDITIONERS / BRANCH CIRCUITS | 2 / 2 x 20 A (PANEL K 25, 27) |         |     |      |

1

AV-5.1

RK-01 RACK BTU CALCULATIONS

2

AV-5.1

RK-01 RACK POWER USAGE

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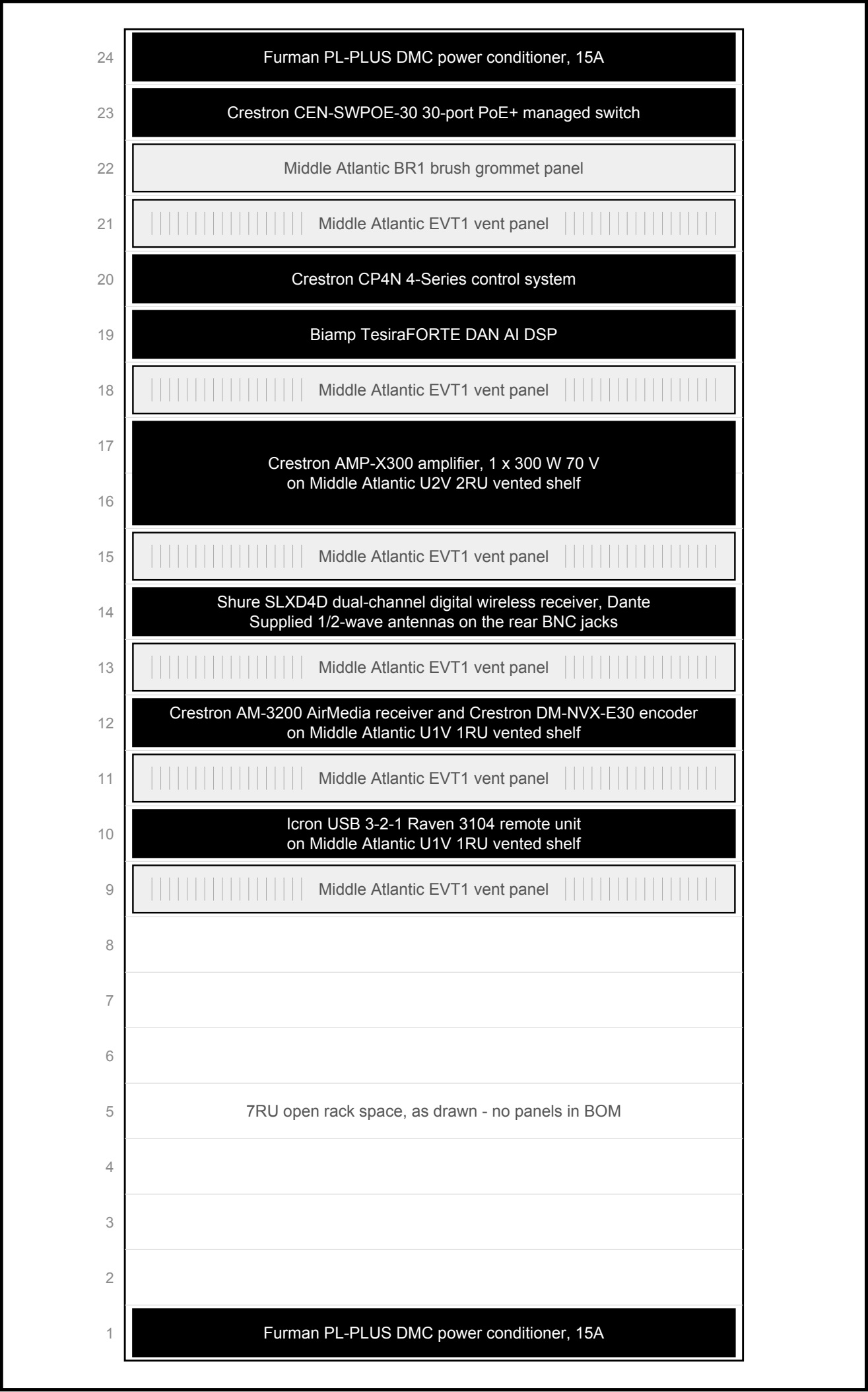
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| ACCT. MANAGER:                | J. MCNEELY     |              |
| ENGINEER:                     | J. MCNEELY     |              |
| REVIEWER:                     | J. MCNEELY     |              |
| FIELD SERVICE<br>COORDINATOR: |                |              |
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|                               | CONSTRUCTION   | AS-BUILT     |

TITLE:

BTU CALCULATIONS

AV - 5.1

FRONT ELEVATION - 24RU EQUIPMENT RACK - RK-01



MIDDLE ATLANTIC RFR-2428GE  
24RU EQUIPMENT RACK - RK-01

PDU-01

ESW-01

VENT

CP-01

DSP-01

VENT

AMP-01

RX-01

VENT

AM-01 / ENC-02

VENT

USB-01

VENT

OPEN

PDU-02

| PWR - RK-01 RACK CONNECTED LOAD |                                                                           |                                                      |
|---------------------------------|---------------------------------------------------------------------------|------------------------------------------------------|
| PDU-01                          | Furman PL-PLUS DMC power conditioner, 15A, on its own 20A circuit         | 0.10 A                                               |
| ESW-01                          | Crestron CEN-SWPOE-30 30-port PoE+ managed switch on PDU-01               | 5.12 A                                               |
| CP-01                           | Crestron CP4N 4-Series control system on PDU-01                           | 0.13 A                                               |
| DSP-01                          | Blamp TesiraFORTE DAN AI DSP on PDU-01                                    | 0.29 A                                               |
| AMP-01                          | Crestron AMP-X300 amplifier, 1 x 300 W 70 V on PDU-02                     | 3.07 A                                               |
| RX-01                           | Shure SLXD4D dual-channel digital wireless receiver, Dante on PDU-02      | 0.08 A                                               |
| AM-01                           | Crestron AM-3200 AirMedia receiver, PoE+ class 4 max from ESW-01 (PDU-01) | 0.25 A                                               |
| ENC-02                          | Crestron DM-NVX-E30 encoder, PoE+ class 4 max from ESW-01 (PDU-01)        | 0.25 A                                               |
| USB-01                          | Icron USB 3-2-1 Raven 3104 remote unit on PDU-02                          | 0.54 A                                               |
| PDU-02                          | Furman PL-PLUS DMC power conditioner, 15A, on its own 20A circuit         | 0.10 A                                               |
| RK-01                           | Middle Atlantic RFR-CABCOOL50 rear blower kit, 12 VDC on PDU-02           | 0.06 A                                               |
| TOTAL CONNECTED LOAD            |                                                                           | 9.99 A                                               |
| POWER CONDITIONERS SHOWN        |                                                                           | 2                                                    |
| BRANCH CIRCUITS REQUIRED        |                                                                           | 2 x 20A DEDICATED, PANEL K CIRCUITS 25 AND 27 (E620) |

| RK-01 RACK FAN KIT / BTU AND CFM SUMMARY     |                                                                             |                                                          |
|----------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------|
| Rack heat, all devices at maximum power draw |                                                                             | 1,197.6 W / 4,086 BTU/hr                                 |
| Design temperature rise                      |                                                                             | 20 deg F                                                 |
| CFM required = BTU/hr / (1.08 x dT)          |                                                                             | 189 CFM                                                  |
| Fan kit supplied                             |                                                                             | RFR-CABCOOL50 - 50 CFM                                   |
| Basis of fan selection                       | THERMOSTATIC REAR BLOWER OFFERED FOR RFR RACKS (MIDDLE ATLANTIC DATA SHEET) |                                                          |
| Margin                                       |                                                                             | INADEQUATE - 139 CFM SHORT                               |
| Allowance at this fan size                   |                                                                             | NONE - 881 W OVER THE FAN CAPACITY AT MAXIMUM POWER DRAW |

Watts from the AV-5.1 BTU calculations: every rack device at its manufacturer maximum power draw, nothing subtracted for PoE delivered to field devices or loudspeaker power. Fan power is included in the connected load. ESW-01 at its 614 W maximum (full 480 W PoE budget); AM-01 and ENC-02 at PoE+ class 4 maximum (30 W each) in addition. AMP-01 at full rated 300 W output / 0.85 plus 16 W idle. RU 1 is at the bottom.

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| REVIEWER:                                         |              | J. MCNEELY     |
| FIELD SERVICE COORDINATOR:                        |              |                |
| PROJECT NUMBER:                                   |              |                |
| NATIVE SIZE:                                      |              | ARCH D (24X36) |
| ISSUED FOR:                                       |              |                |
| X                                                 | REVIEW       | COORDINATION   |
|                                                   | CONSTRUCTION | AS-BUILT       |
| TITLE:                                            |              |                |
| RACK ELEVATION -<br>RK-01                         |              |                |
| AV - 5.2                                          |              |                |