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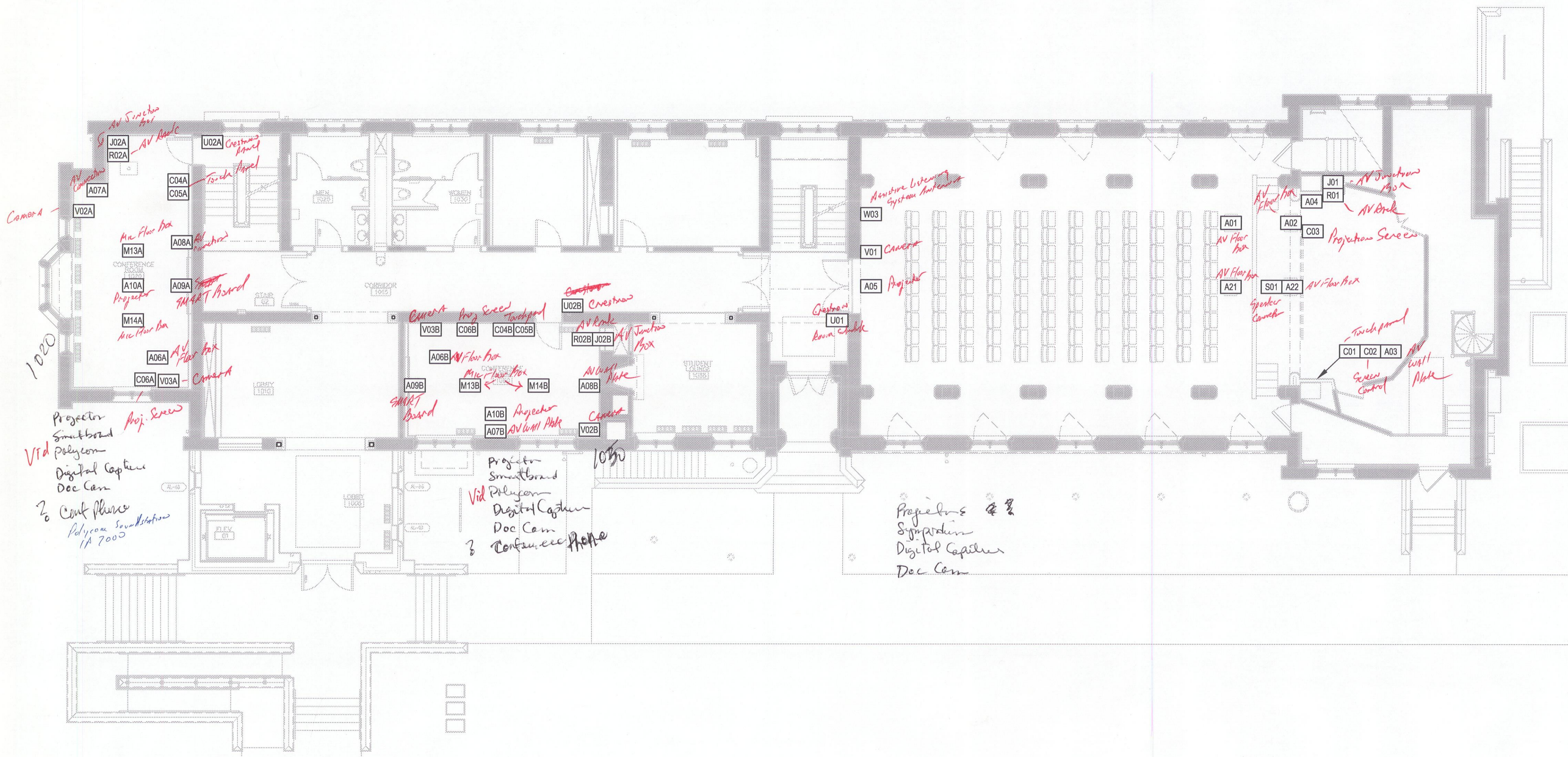
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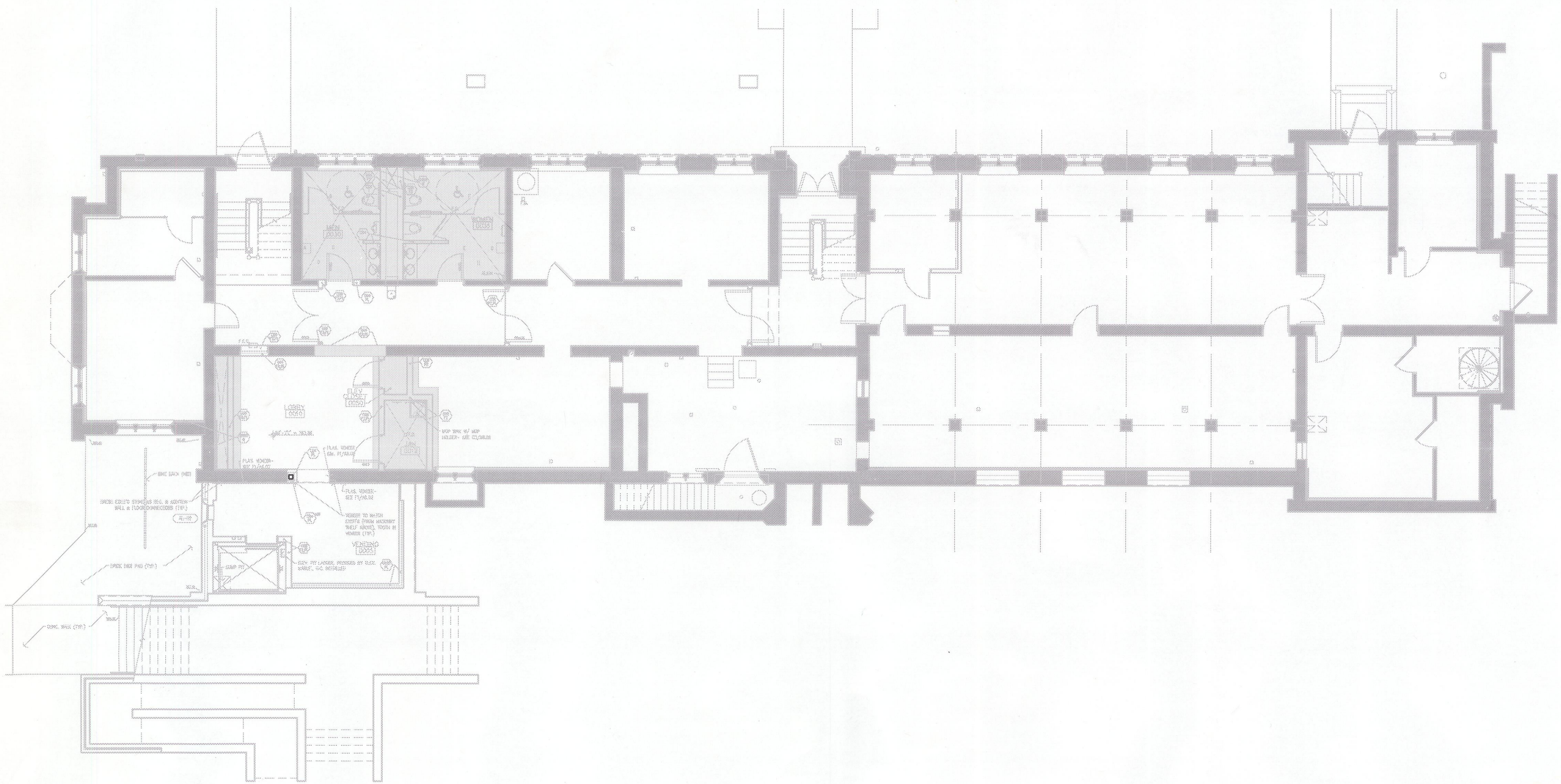
E

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FIRST LEVEL FLOOR PLAN

SCALE: 1/8" = 1'-0"
 Note: Reference E series drawings for all conduit size and routing information



BASEMENT LEVEL FLOOR PLAN

SCALE: 1/8" = 1'-0"
 Note: Reference E series drawings for all conduit size and routing information

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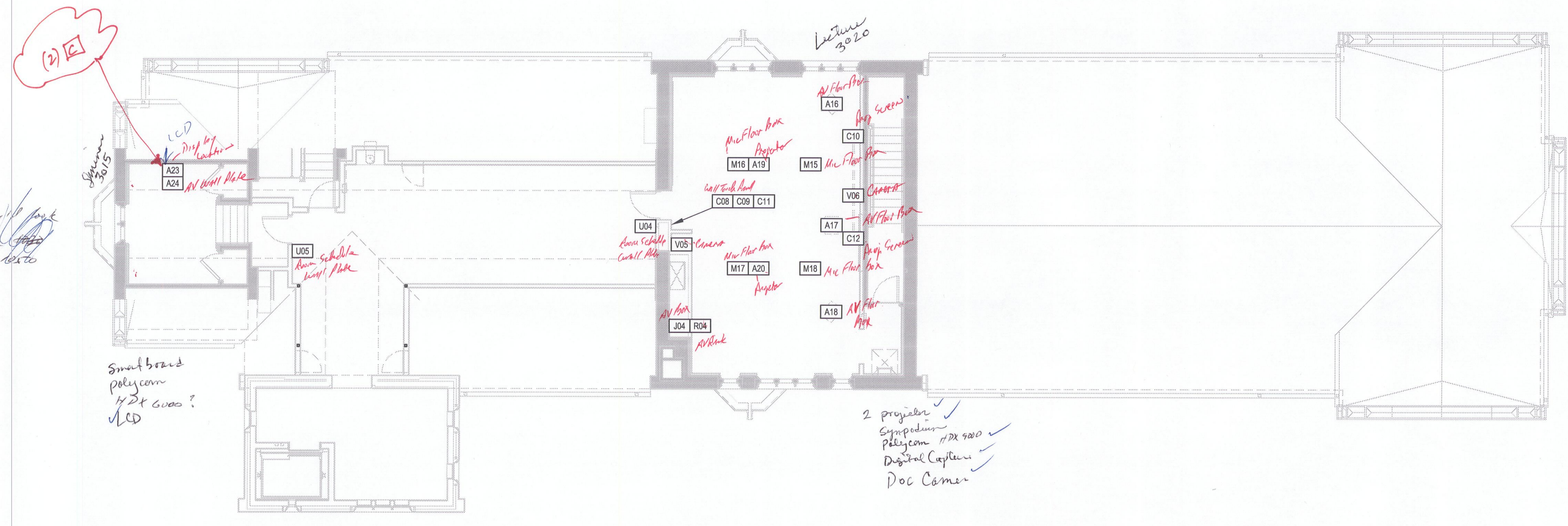
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 DATE: 10-28-2011
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SHEET NAME:
 BASEMENT & FIRST LEVEL
 FLOOR PLAN

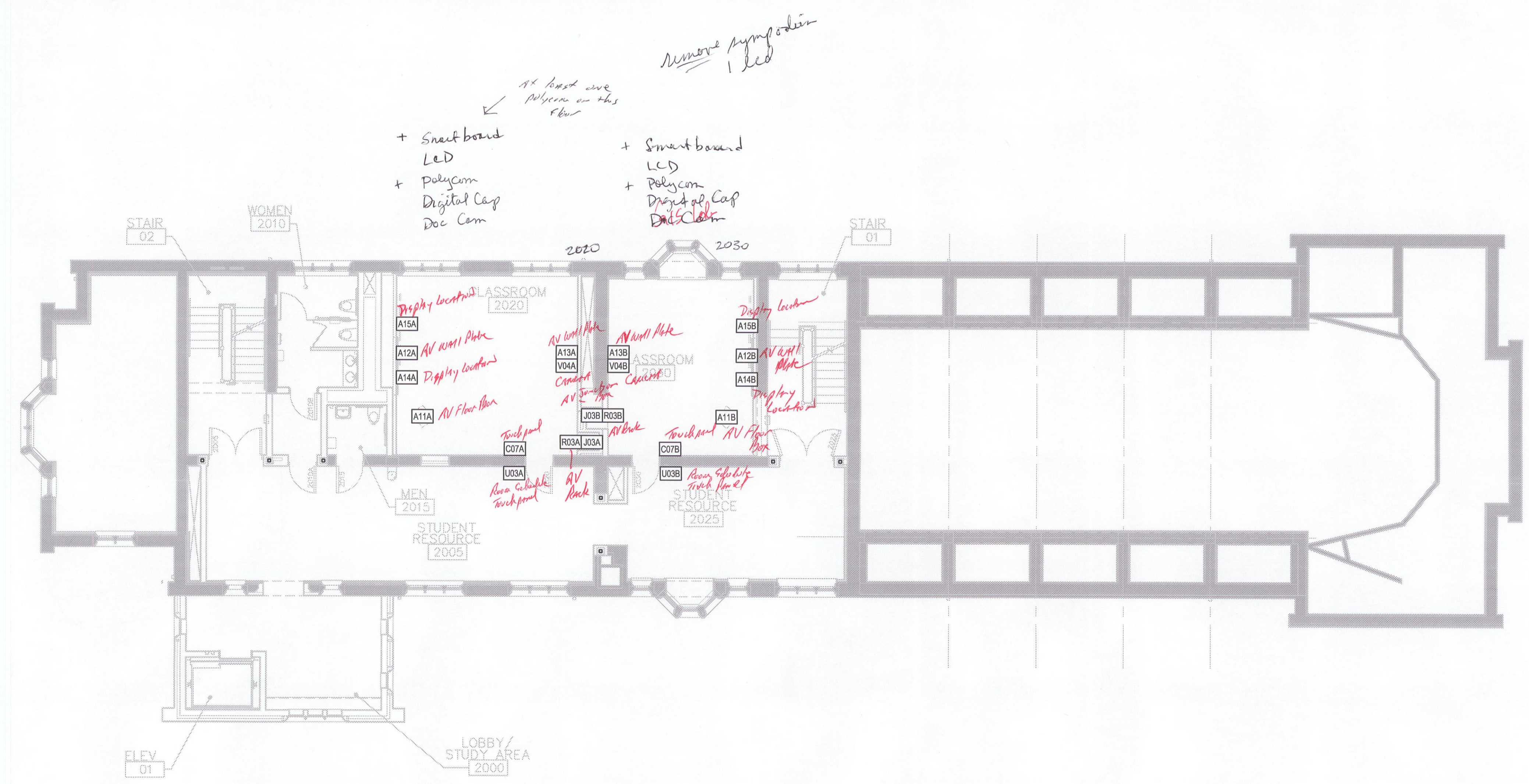
SV2.01

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42.30



THIRD LEVEL FLOOR PLAN
 SCALE: 1/8" = 1'-0"
 Note: Reference E series drawings for all conduit size and routing information



SECOND LEVEL FLOOR PLAN
 SCALE: 1/8" = 1'-0"
 Note: Reference E series drawings for all conduit size and routing information

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SHEET NAME:
 SECOND & THIRD LEVEL
 FLOOR PLAN

SV2.02

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University of Tulsa - Tyrrell Hall

Table with columns: LABEL, DESCRIPTION, ROOM, LOCATION, TYPE, HxWxD, MOUNTING, COMMENTS. Lists various AV equipment locations and specifications across multiple rooms.

Schedules

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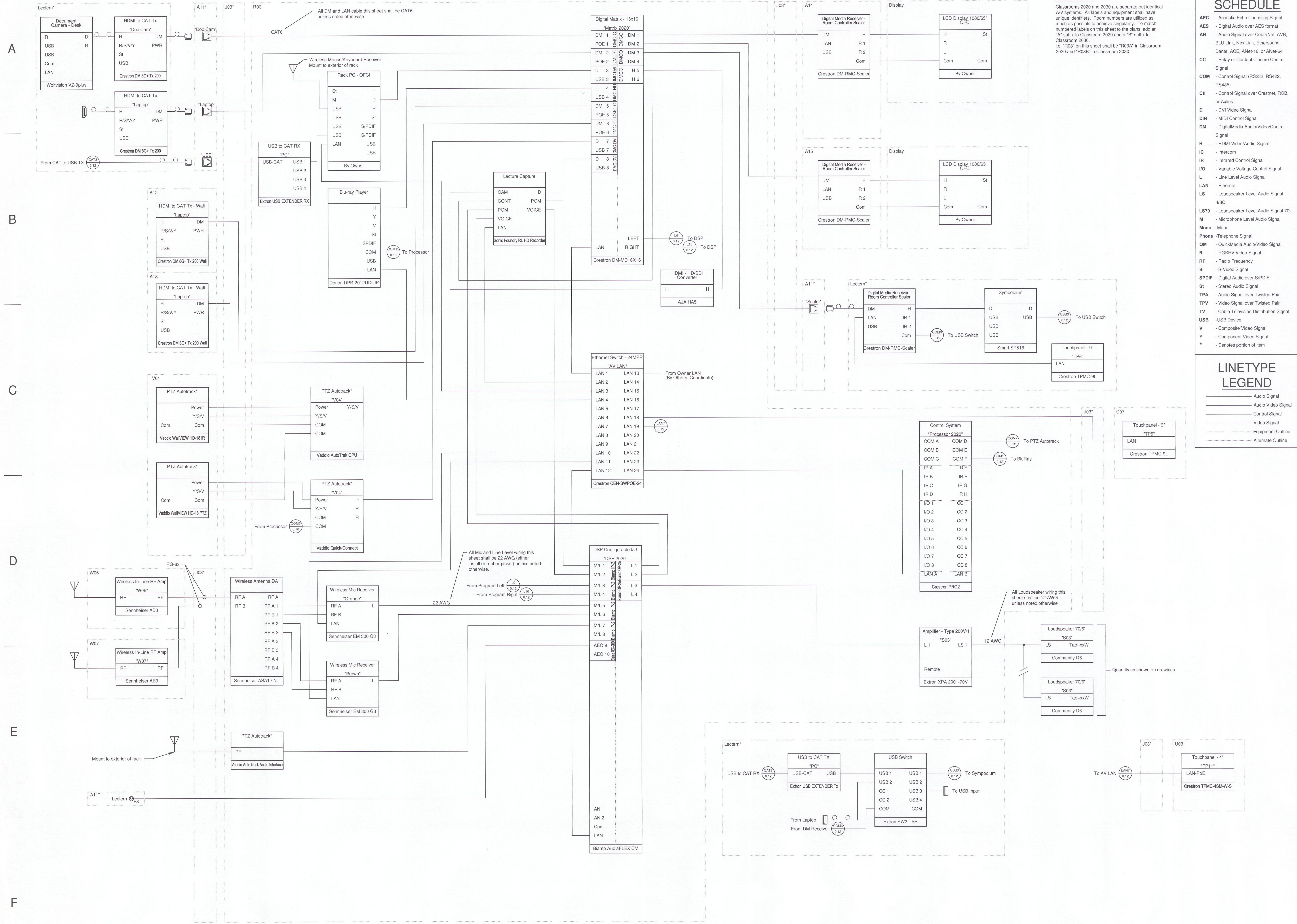
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NOTE:
Classrooms 2020 and 2030 are separate but identical AV systems. All labels and equipment shall have unique identifiers. Room numbers are utilized as much as possible to achieve singularity. To match numbered labels on this sheet to the plans, add an "A" suffix to Classroom 2020 and a "B" suffix to Classroom 2030.
i.e. "R03" on this sheet shall be "R03A" in Classroom 2020 and "R03B" in Classroom 2030.

ABBREVIATION SCHEDULE

- AEC - Acoustic Echo Cancelling Signal
- AES - Digital Audio over AES format
- AN - Audio Signal over CobraNet, AVB, BLU Link, Nex Link, Ethersound, Dante, ACE, ANet-16, or ANet-64
- CC - Relay or Contact Closure Control Signal
- COM - Control Signal (RS232, RS422, RS485)
- CTI - Control Signal over Crestnet, RCB, or Avlink
- D - DVI Video Signal
- DIN - MIDI Control Signal
- DM - DigitalMedia Audio/Video/Control Signal
- H - HDMI Video/Audio Signal
- IC - Intercom
- IR - Infrared Control Signal
- IO - Variable Voltage Control Signal
- L - Line Level Audio Signal
- LAN - Ethernet
- LS - Loudspeaker Level Audio Signal 4/80
- LS70 - Loudspeaker Level Audio Signal 70v
- M - Microphone Level Audio Signal
- Mono - Mono
- Phone - Telephone Signal
- QM - QuickMedia Audio/Video Signal
- R - RGBHV Video Signal
- RF - Radio Frequency
- S - S-Video Signal
- SPDIF - Digital Audio over S/PDIF
- ST - Stereo Audio Signal
- TPA - Audio Signal over Twisted Pair
- TPV - Video Signal over Twisted Pair
- TV - Cable Television Distribution Signal
- USB - USB Device
- V - Composite Video Signal
- Y - Component Video Signal
- *

LINETYPE LEGEND

- Audio Signal
- Audio Video Signal
- Control Signal
- Video Signal
- Equipment Outline
- Alternate Outline

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 SIGNAL FLOW - CLASSROOM
 2020 & 2030

Classroom 2020 & 2030 A/V Signal Flow Diagram

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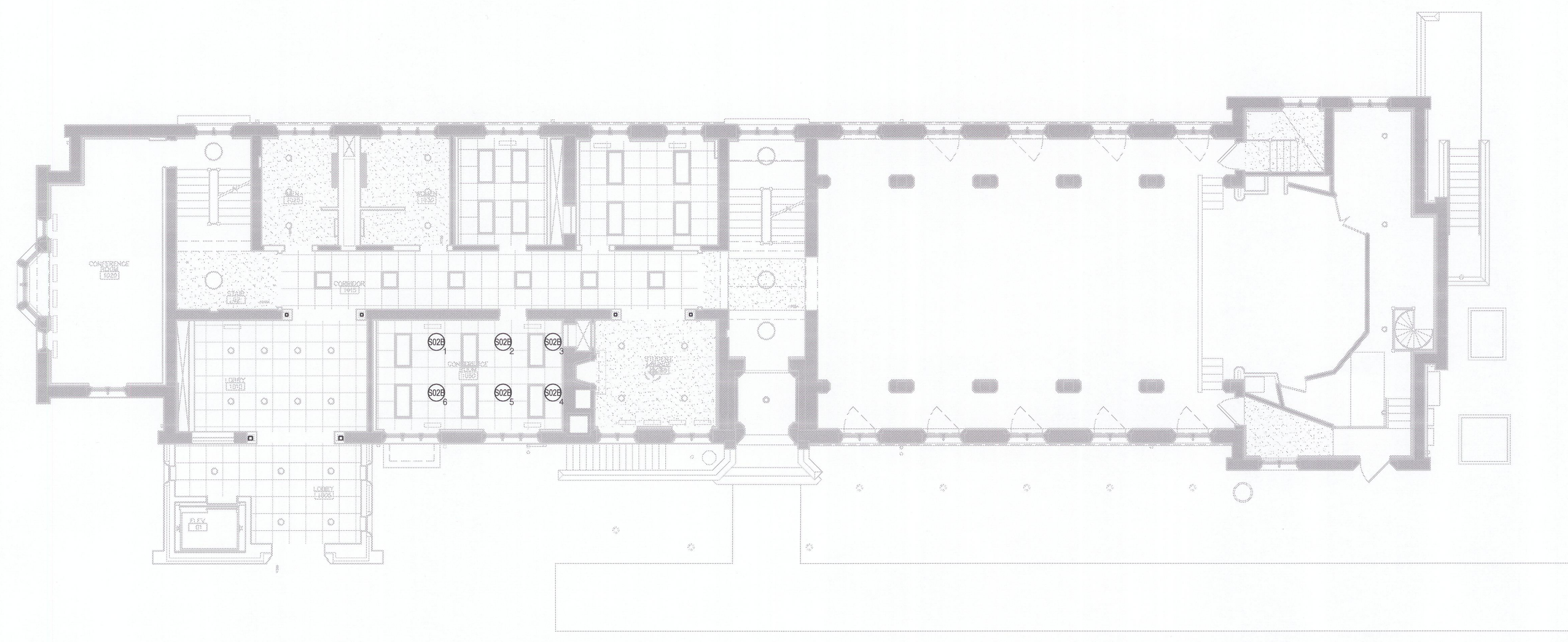
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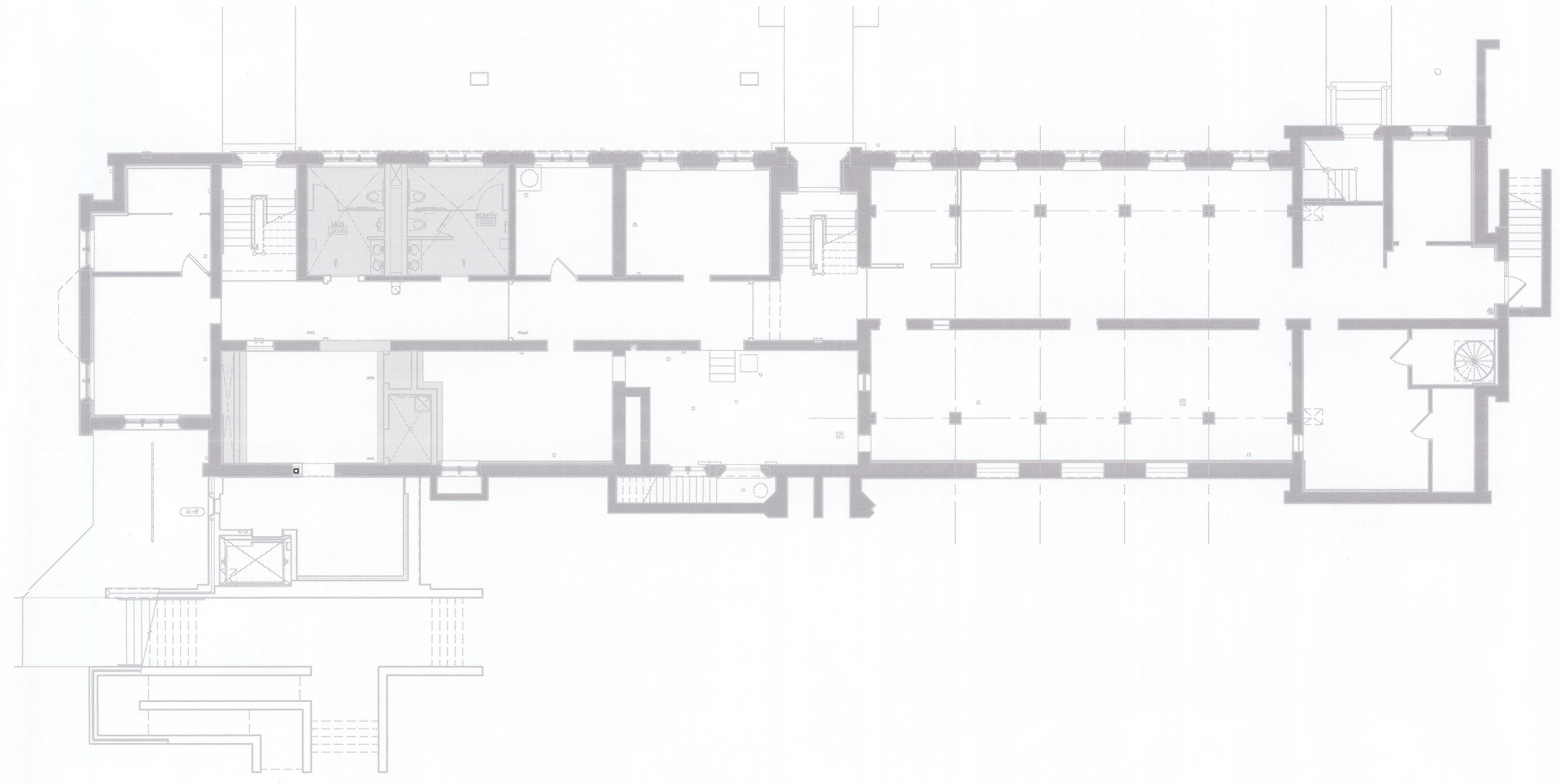
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 **FIRST LEVEL FLOOR PLAN**
SCALE: 1/8" = 1'-0"



 **BASEMENT LEVEL FLOOR PLAN**
SCALE: 1/8" = 1'-0"

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 BASEMENT & FIRST LEVEL
 RCP

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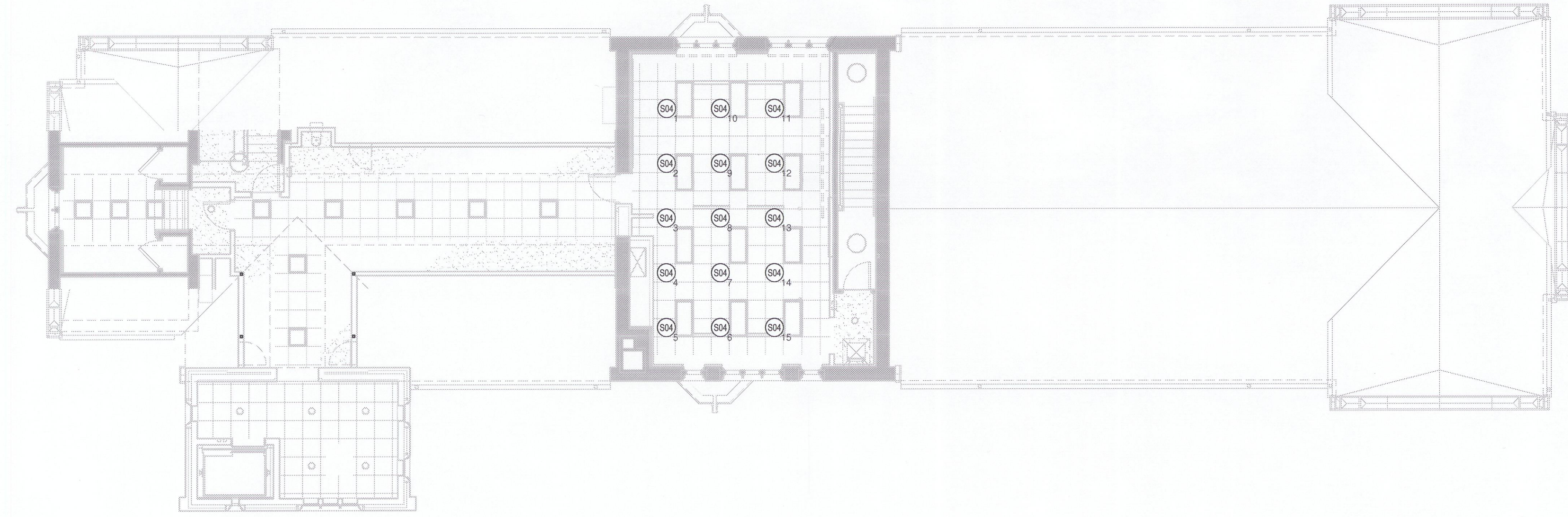
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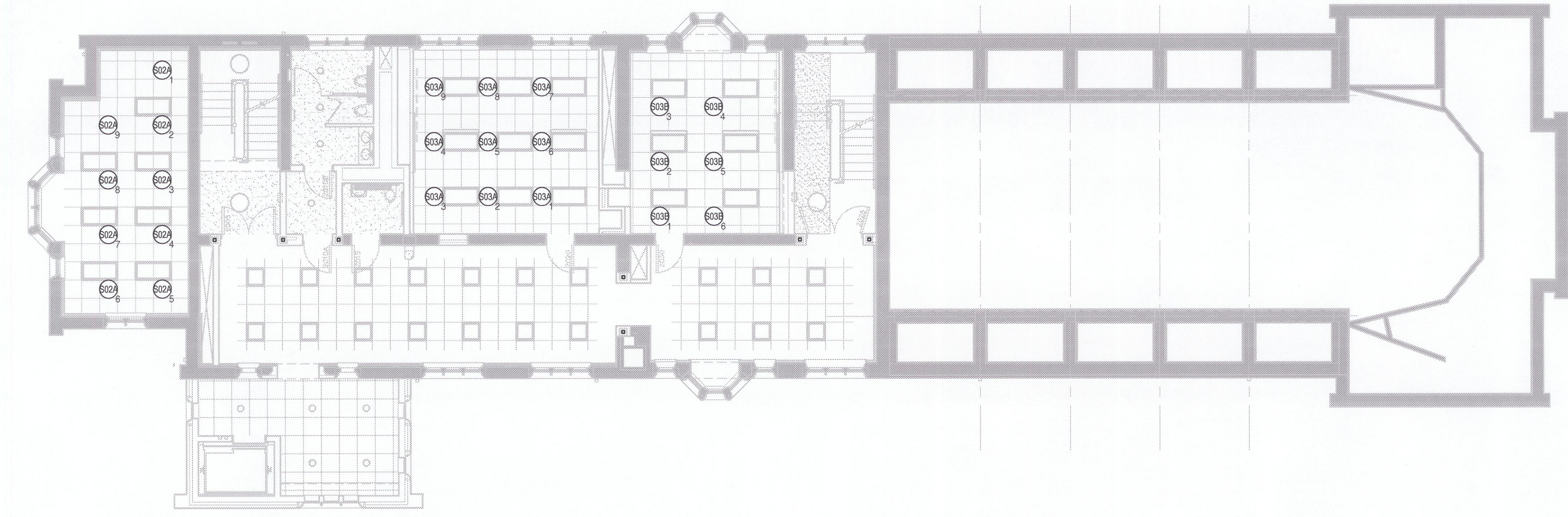
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 **THIRD LEVEL FLOOR PLAN**
SCALE: 1/8" = 1'-0"



 **SECOND LEVEL FLOOR PLAN**
SCALE: 1/8" = 1'-0"

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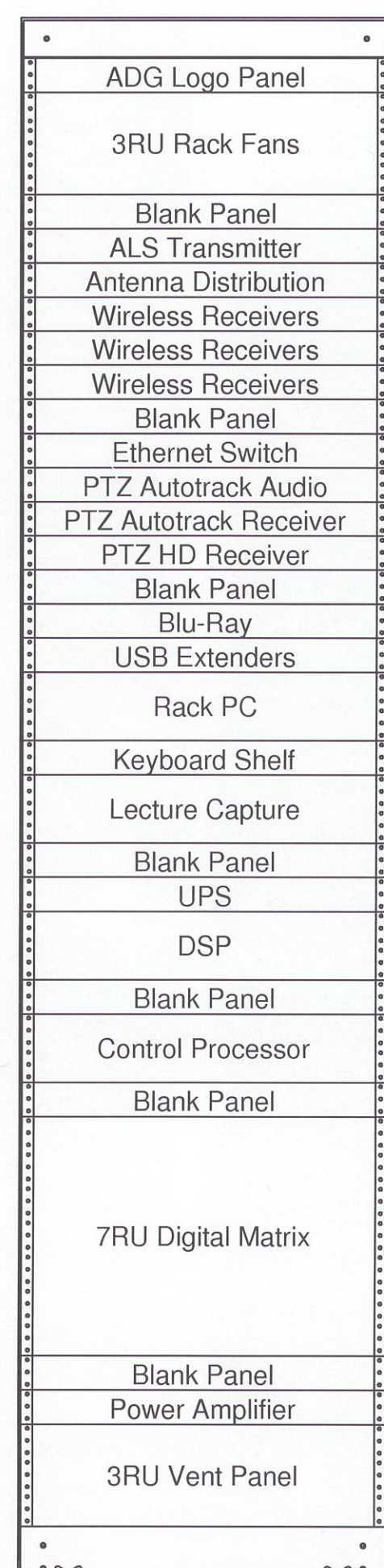
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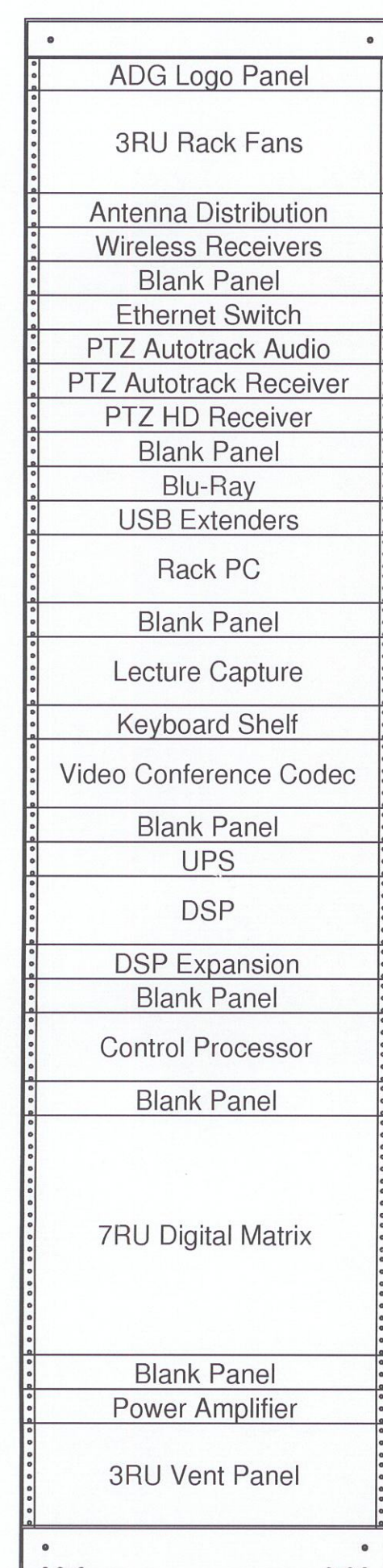
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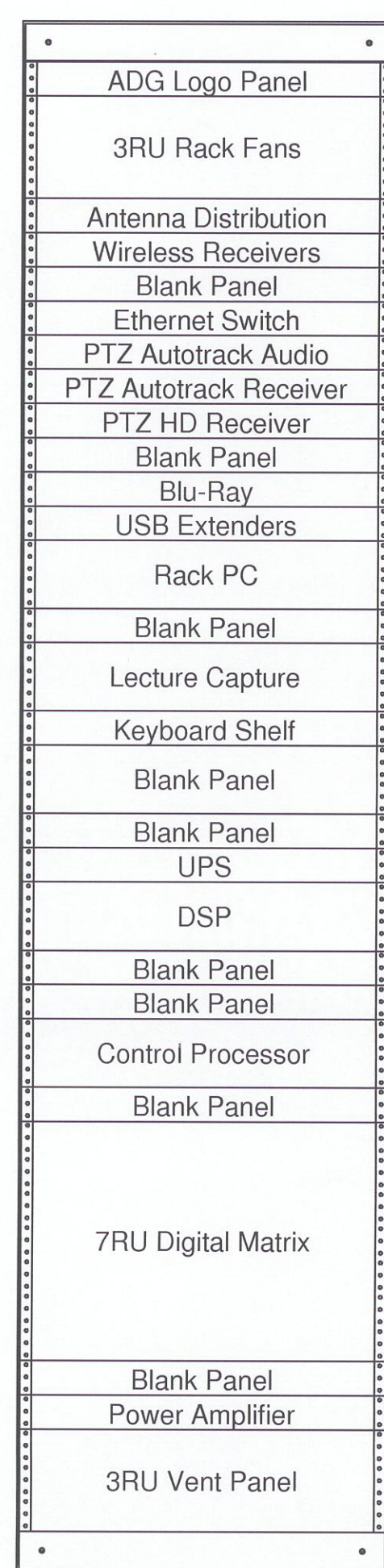
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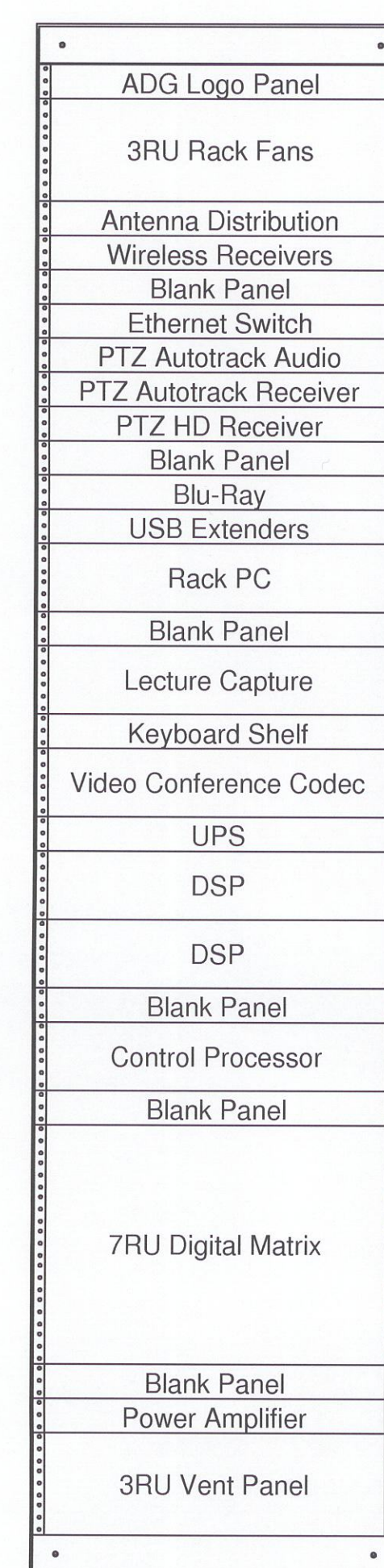
A AUDITORIUM 1065
SCALE: 1 1/2" = 1'-0"



B CONFERENCE 1020/1050
SCALE: 1 1/2" = 1'-0"



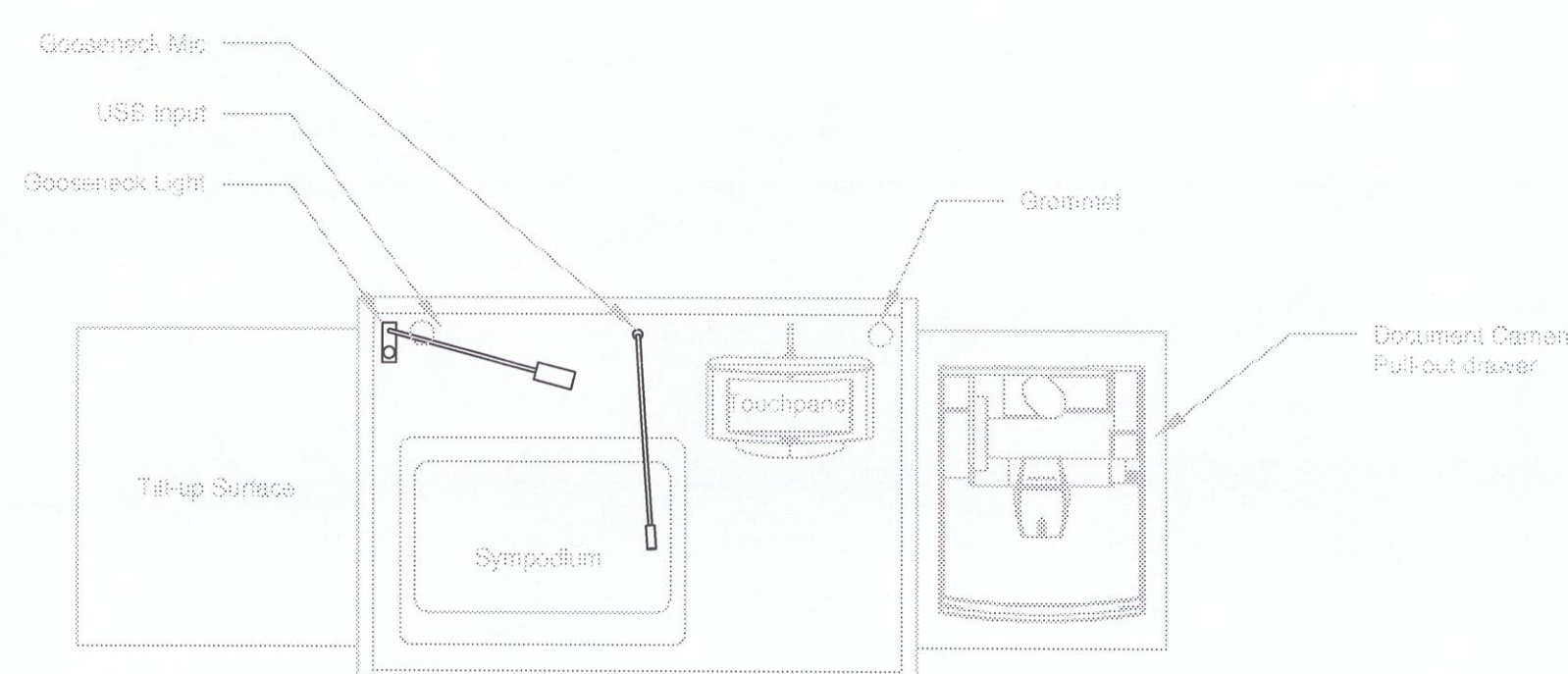
C CLASSROOM 2020/2030
SCALE: 1 1/2" = 1'-0"



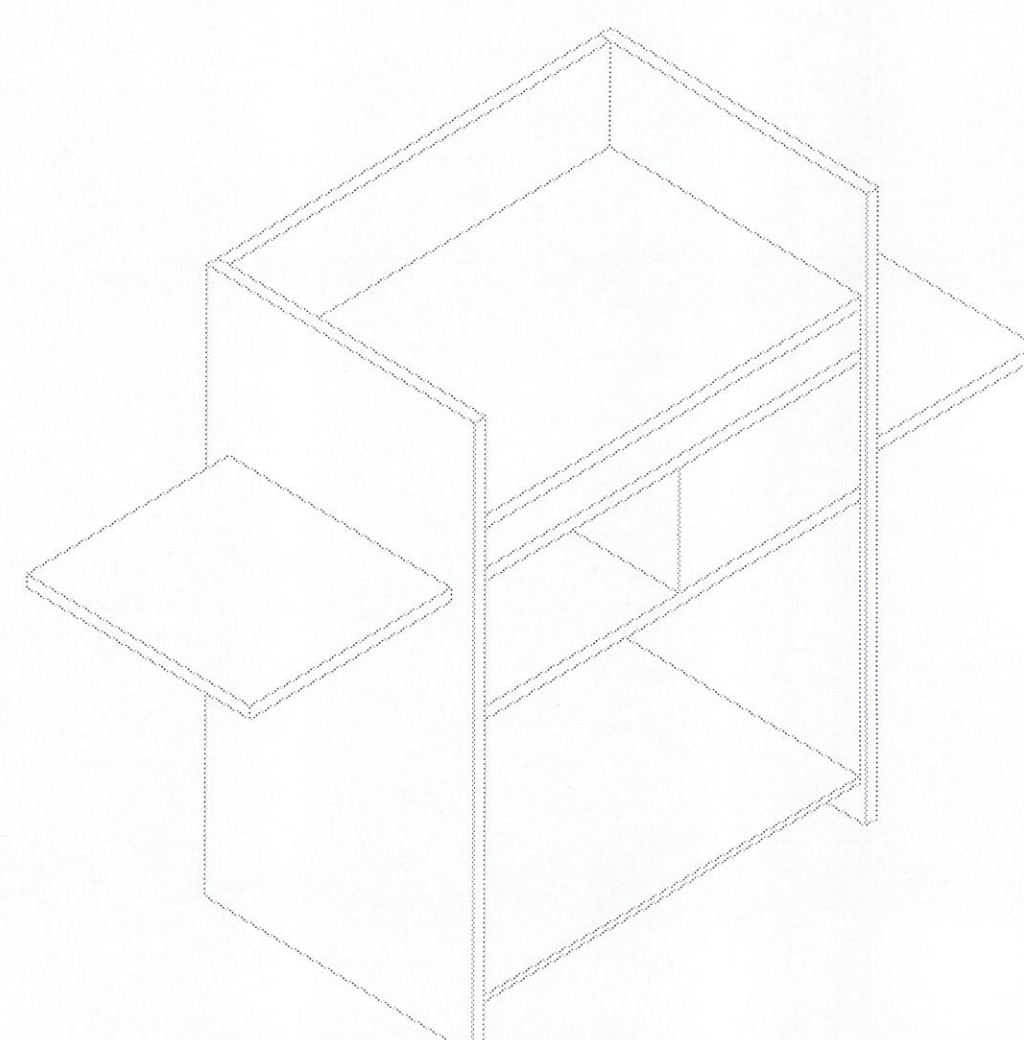
D LECTURE 3020
SCALE: 1 1/2" = 1'-0"



A Lectern Conceptual Detail - Front
SCALE: 1" = 1'-0"



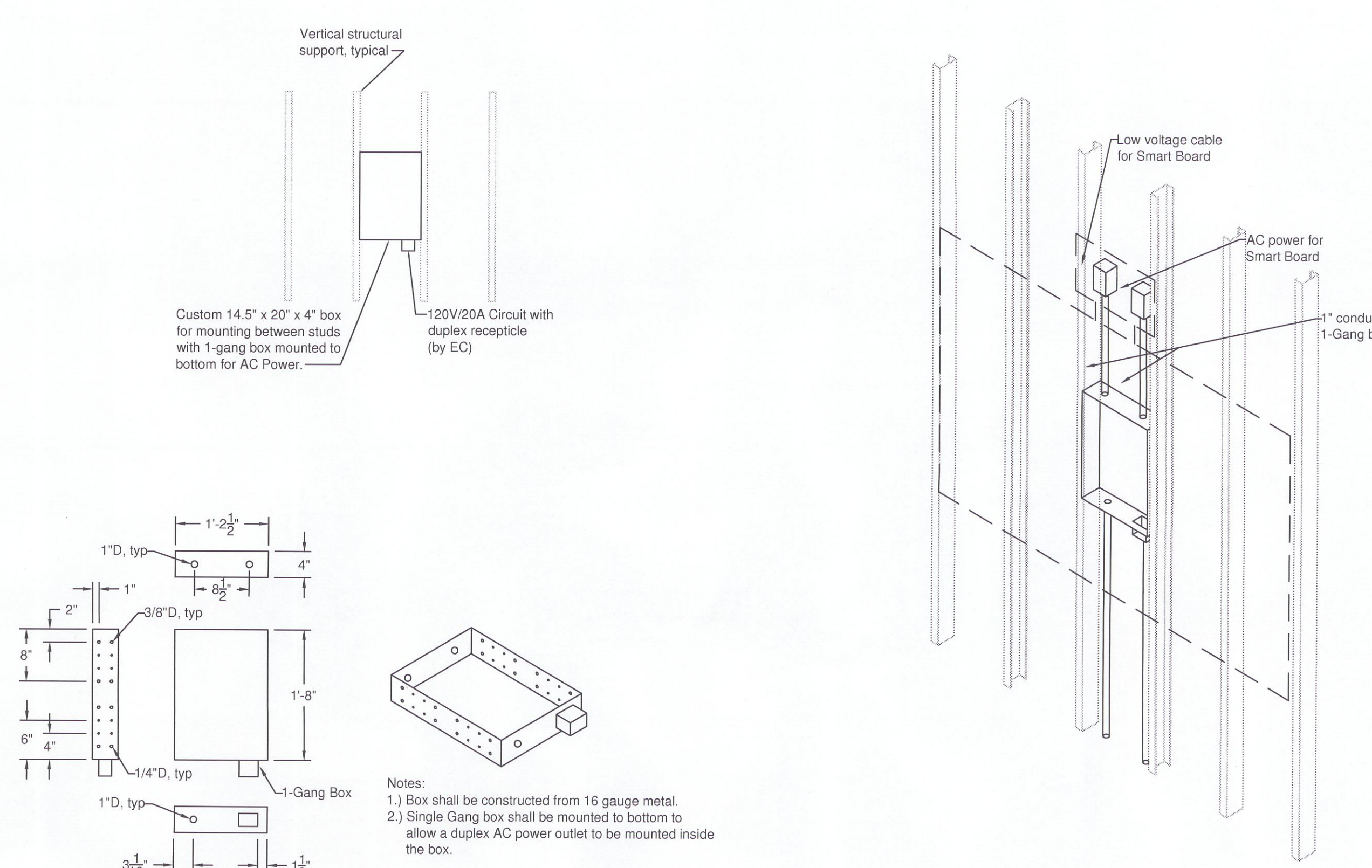
A Lectern Conceptual Detail - Top
SCALE: 1" = 1'-0"



A Lectern Conceptual Detail - Isometric
SCALE: 1" = 1'-0"

Lectern Notes:

- Lectern layout is for CONCEPT ONLY. The Technical System Contractor shall verify layout and sizes for equipment furnished, and shall submit millwork shop drawings for review prior to fabrication.
- Lectern color/finish shall be selected by Architect. Refer to architectural finish drawings for all millwork finishes. Where the manufacturer of installed equipment offers standard color choices, these also shall be selected by Architect.
- All cabinet doors, drawers, or locking cabinets shall be provided with key locks. All locks shall be keyed alike. Provide 4 sets of keys.
- Layout shown is for the convenience of the bidding Technical System Contractor. If there are differences between this layout and that shown on the diagrams, the diagrams shall take precedence.
- Where alternates are involved, the shop drawings shall reflect the proposed layout showing all equipment regardless of alternates installed or not. Install blank rack panels for all alternate equipment not installed.
- Lectern shall use AC Power outlets (by Electrical Contractor) As shown on plan at typical Lectern operating location.



A SMARTBOARD ROUGH-IN CONCEPTUAL DETAIL
SCALE: 1/16" = 1'-0"

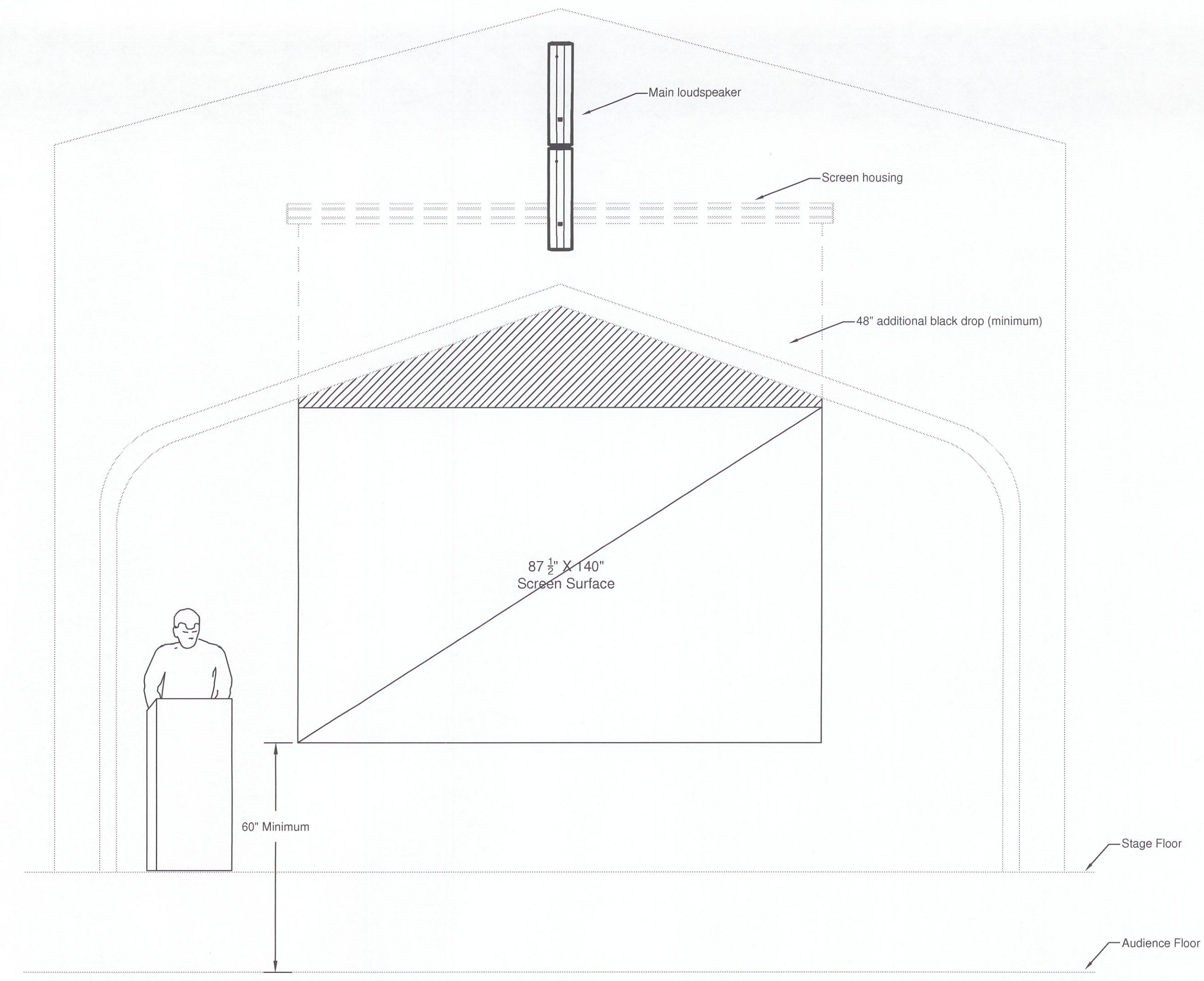
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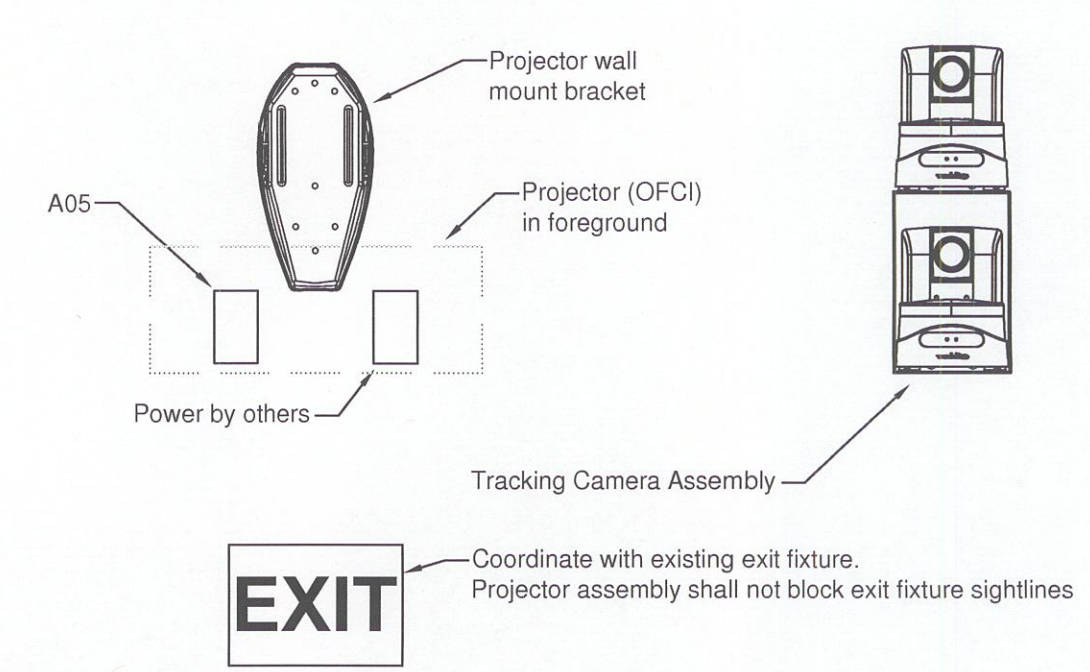
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A AUDITORIUM 1065 STAGE ELEVATION
SCALE: 1/2" = 1'-0"



C AUDITORIUM 1065 CAMERA/PROJECTOR SECTION
SCALE: 1" = 1'-0"



B AUDITORIUM 1065 REAR WALL ELEVATION
SCALE: 1" = 1'-0"

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DETAILS

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A/V SYMBOL LEGEND

| Signal Flow Symbol | Panel/Plate Connector | Description |
|--------------------|-----------------------|--|
| | | Female 3-pin XLR Panel Mount Connector |
| | | Male 3-pin XLR Panel Mount Connector |
| | | Female 4-pin XLR Panel Mount Connector |
| | | Male 4-pin XLR Panel Mount Connector |
| | | Female 5-pin XLR Panel Mount Connector |
| | | Male 5-pin XLR Panel Mount Connector |
| | | Female XLR Cable Mount Connector (Number below symbol determines number of pins) |
| | | Male XLR Cable Mount Connector (Number below symbol determines number of pins) |
| | | 1/4" 3-Conductor Panel Mount Connector |
| | | 1/4" 3-Conductor Cable Mount Connector |
| | | 1/8" 3-Conductor Mini Panel Mount Connector |
| | | 1/8" 3-Conductor Mini Cable Mount Connector |
| | | Female RCA Panel Mount Connector |
| | | Male RCA Cable Mount Connector |
| | | Speakon Jack |
| | | Speakon Plug |
| | | 3-Pin Phoenix Panel Mount Connector |
| | | 3-Pin Phoenix Cable Mount Connector |
| | | 5-Pin Phoenix Panel Mount Connector |
| | | 5-Pin Phoenix Cable Mount Connector |
| | | Female Panel Mount Multipin Connector |
| | | Male Cable Mount Multipin Connector |
| | | Panel Mount Screw Terminal |
| | | Microphone (permanently mounted) |
| | | Transformer with tap value indicated |
| | | 3-Conductor Patch Panel Jack with Normal-Thru Jack Contact |
| | | Patch Jack Plug |
| | | Volume Control |
| | | Connection Bubble Upper designation refers to connection label. Lower designation refers to the sheet number on which the connection is continued. |

| Signal Flow Symbol | Panel/Plate Connector | Description |
|--------------------|-----------------------|--|
| | | BNC Panel Mount Connector |
| | | Cable End BNC Connector |
| | | 75 Ohm BNC Terminator |
| | | S-Video Panel Mount Connector |
| | | S-Video Cable Mount Connector |
| | | RGBHV HD-15 Panel Mount Connector |
| | | RGBHV HD-15 Cable Mount Connector |
| | | DVI Panel Mount Connector |
| | | DVI Cable Mount Connector |
| | | HDMI Panel Mount Connector |
| | | HDMI Cable Mount Connector |
| | | F-style RF Panel Mount Connector |
| | | F-style RF Cable Mount Connector |
| | | ST Fiber Panel Mount Connector |
| | | ST Fiber Cable Mount Connector |
| | | Triax Panel Mount Connector |
| | | UTP Panel Mount Connector |
| | | UTP Cable Mount Connector |
| | | RJ-45 Standard Panel Mount Connector |
| | | RJ-45 Standard Cable Mount Connector |
| | | RJ-11 Panel Mount Connector |
| | | RJ-11 Cable Mount Connector |
| | | Com (DB-9) Panel Mount Connector |
| | | Com (DB-9) Cable Mount Connector |
| | | IR Emitter |
| | | USB Type A Panel Mount Connector |
| | | USB Type A Cable Mount Connector |
| | | Video Patch Panel Jack |
| | | Video Patch Panel Jack with Normal-Thru Contacts |
| | | Male DT12 Panel Mount Connector |
| | | Female DT12 Panel Mount Connector |

| Signal Flow Symbol | Panel/Plate Connector | Description |
|--------------------|-----------------------|---|
| | | Relay Coil (shown: Relay RA-1) |
| | | Normally-Open Relay or Switch Contact. Switch Both Sides of Audio Line. |
| | | Normally-Closed Relay or Switch Contact. Switch Both Sides of Audio Line. |
| | | Shunt Resistor across Audio Circuit |
| | | Shunt Resistor through normally-closed Relay or Switch Contact |
| | | Rotary Potentiometer with Resistance Noted Audio (Log) Taper unless noted otherwise. |
| | | Resistor connected in both high and low sides of Audio Line. |
| | | Resistor connected in high side of Audio Line only. 1/2 Watt, 5% unless noted otherwise, typ. |
| | | Connection to Sheet Metal Ground (Chassis Ground) |
| | | Connection to low side of Audio Circuit (Signal Ground) |
| | | Diode |
| | | LED Indicator |
| | | Rubber jacketed extension cable |
| | | Connection dot |
| | | Antenna |

ABBREVIATION SCHEDULE

| | |
|-------|--|
| AEC | - Acoustic Echo Canceling Signal |
| AES | - Digital Audio over AES format |
| AN | - Audio Signal over CobraNet, AVB, BLU Link, Nex Link, Ethersound, Dante, ACE, ANet-16, or ANet-64 |
| CC | - Relay or Contact Closure Control Signal |
| COM | - Control Signal (RS232, RS422, RS485) |
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| DIN | - MIDI Control Signal |
| DM | - DigitalMedia Audio/Video/Control Signal |
| H | - HDMI Video/Audio Signal |
| IC | - Intercom |
| IR | - Infrared Control Signal |
| IO | - Variable Voltage Control Signal |
| DM | - DigitalMedia Audio/Video/Control Signal |
| L | - Line Level Audio Signal |
| LAN | - Ethernet |
| LS | - Loudspeaker Level Audio Signal 4/8D |
| LS70 | - Loudspeaker Level Audio Signal 70v |
| M | - Microphone Level Audio Signal |
| Mono | - Mono |
| Phone | - Telephone Signal |
| QM | - QuickMedia Audio/Video Signal |
| R | - RGBHV Video Signal |
| RF | - Radio Frequency |
| S | - S-Video Signal |
| SPDIF | - Digital Audio over SPDIF |
| SI | - Stereo Audio Signal |
| TPA | - Audio Signal over Twisted Pair |
| TPV | - Video Signal over Twisted Pair |
| TV | - Cable Television Distribution Signal |
| USB | - USB Device |
| V | - Composite Video Signal |
| Y | - Component Video Signal |
| * | - Denotes portion of item |

LINETYPE LEGEND

| | |
|--|--------------------|
| | Audio Signal |
| | Audio Video Signal |
| | Control Signal |
| | Video Signal |
| | Equipment Outline |
| | Alternate Outline |

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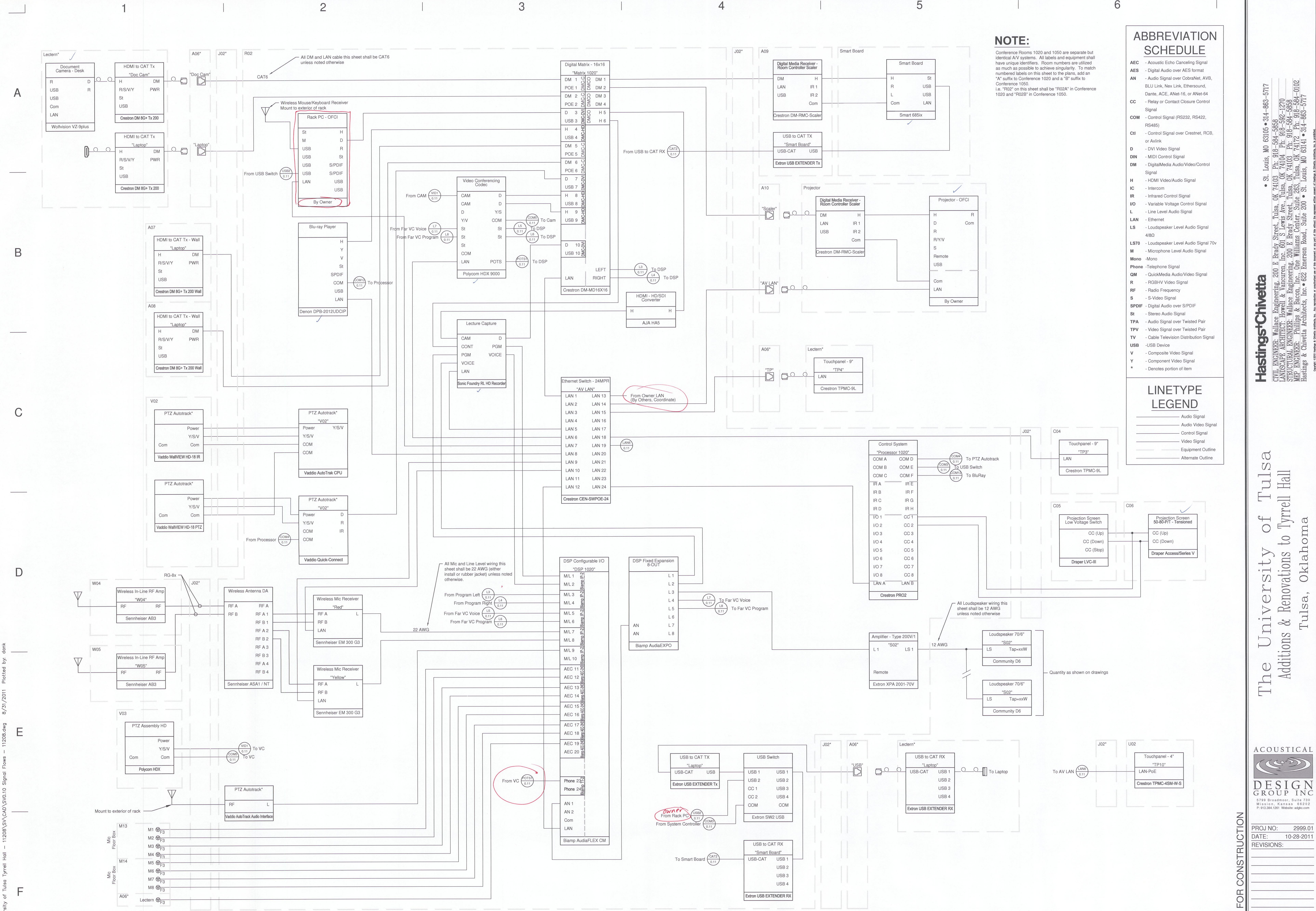
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Note: Panel & Plate Connectors are not shown to scale.

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NOTE:
 Conference Rooms 1020 and 1050 are separate but identical A/V systems. All labels and equipment shall have unique identifiers. Room numbers are utilized as much as possible to achieve singularity. To match numbered labels on this sheet to the plans, add an "A" suffix to Conference 1020 and a "B" suffix to Conference 1050. I.e. "R02" on this sheet shall be "R02A" in Conference 1020 and "R02B" in Conference 1050.

ABBREVIATION SCHEDULE

- AEC - Acoustic Echo Canceling Signal
- AES - Digital Audio over AES format
- AN - Audio Signal over CobraNet, AVB, BLU Link, Nex Link, Etheround, Dante, ACE, ANet-16, or ANet-64
- CC - Relay or Contact Closure Control Signal
- COM - Control Signal (RS232, RS422, RS485)
- CU - Control Signal over Crestron, RCB, or Arlink
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- DM - MIDI Control Signal
- DM - DigitalMedia Audio/Video/Control Signal
- H - HDMI Video/Audio Signal
- IC - Intercom
- IR - Infrared Control Signal
- VO - Variable Voltage Control Signal
- L - Line Level Audio Signal
- LAN - Ethernet
- LS - Loudspeaker Level Audio Signal 4BQ
- LS70 - Loudspeaker Level Audio Signal 70v
- M - Mono
- Phone - Telephone Signal
- QM - QuickMedia Audio/Video Signal
- R - RGBHV Video Signal
- RF - Radio Frequency
- S - S-Video Signal
- SPDIF - Digital Audio over S/PDIF
- St - Stereo Audio Signal
- TPA - Audio Signal over Twisted Pair
- TPV - Video Signal over Twisted Pair
- TV - Cable Television Distribution Signal
- USB - USB Device
- V - Composite Video Signal
- Y - Component Video Signal
- * - Denotes portion of item

LINETYPE LEGEND

- Audio Signal
- Audio Video Signal
- Control Signal
- Video Signal
- Equipment Outline
- Alternate Outline

Conference 1020 & 1050 A/V Signal Flow Diagram

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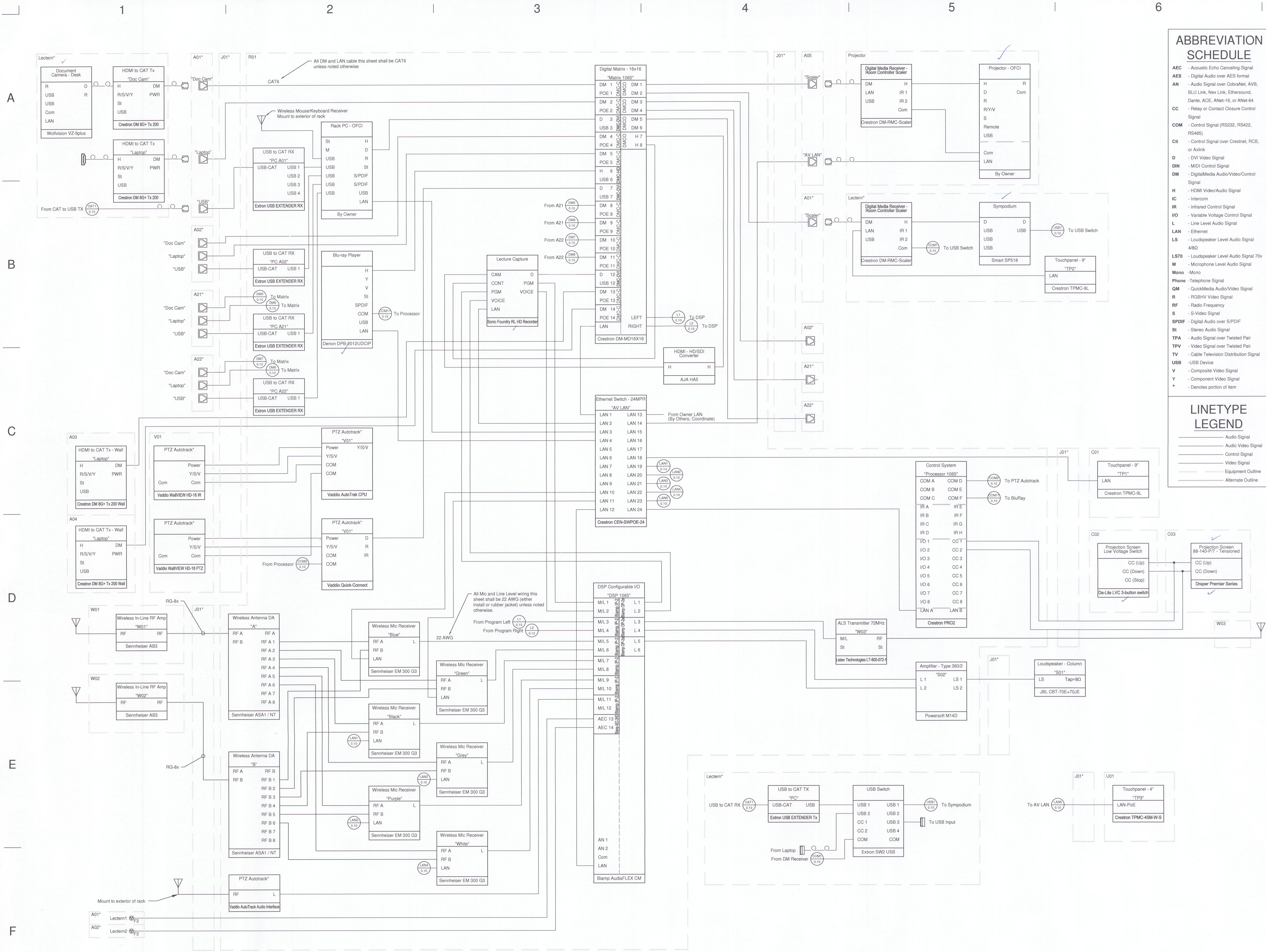
PROJ NO: 2999.01
 DATE: 10-28-2011
 REVISIONS:

SHEET NAME:
 SIGNAL FLOW - CONFERENCE
 1020 & 1050

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ABBREVIATION SCHEDULE

- AEC** - Acoustic Echo Canceling Signal
- AES** - Digital Audio over AES format
- AN** - Audio Signal over CoBRA/Net, AVB, BLU Link, Nex Link, EtherSound, Dante, ACE, ANet-16, or ANet-64
- CC** - Relay or Contact Closure Control Signal
- COM** - Control Signal (RS232, RS422, RS485)
- CH** - Control Signal over Crestron, RC6, or ALink
- D** - DVI Video Signal
- DM** - MIDI Control Signal
- DM** - Digital/Media Audio/Video/Control Signal
- H** - HDMI Video/Audio Signal
- IC** - Intercom
- IR** - Infrared Control Signal
- VO** - Variable Voltage Control Signal
- L** - Line Level Audio Signal
- LAN** - Ethernet
- LS** - Loudspeaker Level Audio Signal 4/8Ω
- LS70** - Loudspeaker Level Audio Signal 70v
- M** - Microphone Level Audio Signal
- Mono** - Mono
- Phone** - Telephone Signal
- QM** - QuickMedia Audio/Video Signal
- R** - RGBHV Video Signal
- RF** - Radio Frequency
- S** - S-Video Signal
- SPDIF** - Digital Audio over SPDIF
- St** - Stereo Audio Signal
- TPA** - Audio Signal over Twisted Pair
- TV** - Video Signal over Twisted Pair
- USB** - USB Device
- V** - Composite Video Signal
- Y** - Component Video Signal
- *** - Denotes portion of item

LINETYPE LEGEND

- Audio Signal
- Audio Video Signal
- Control Signal
- Video Signal
- Equipment Outline
- Alternate Outline

Auditorium 1065 A/V Signal Flow Diagram

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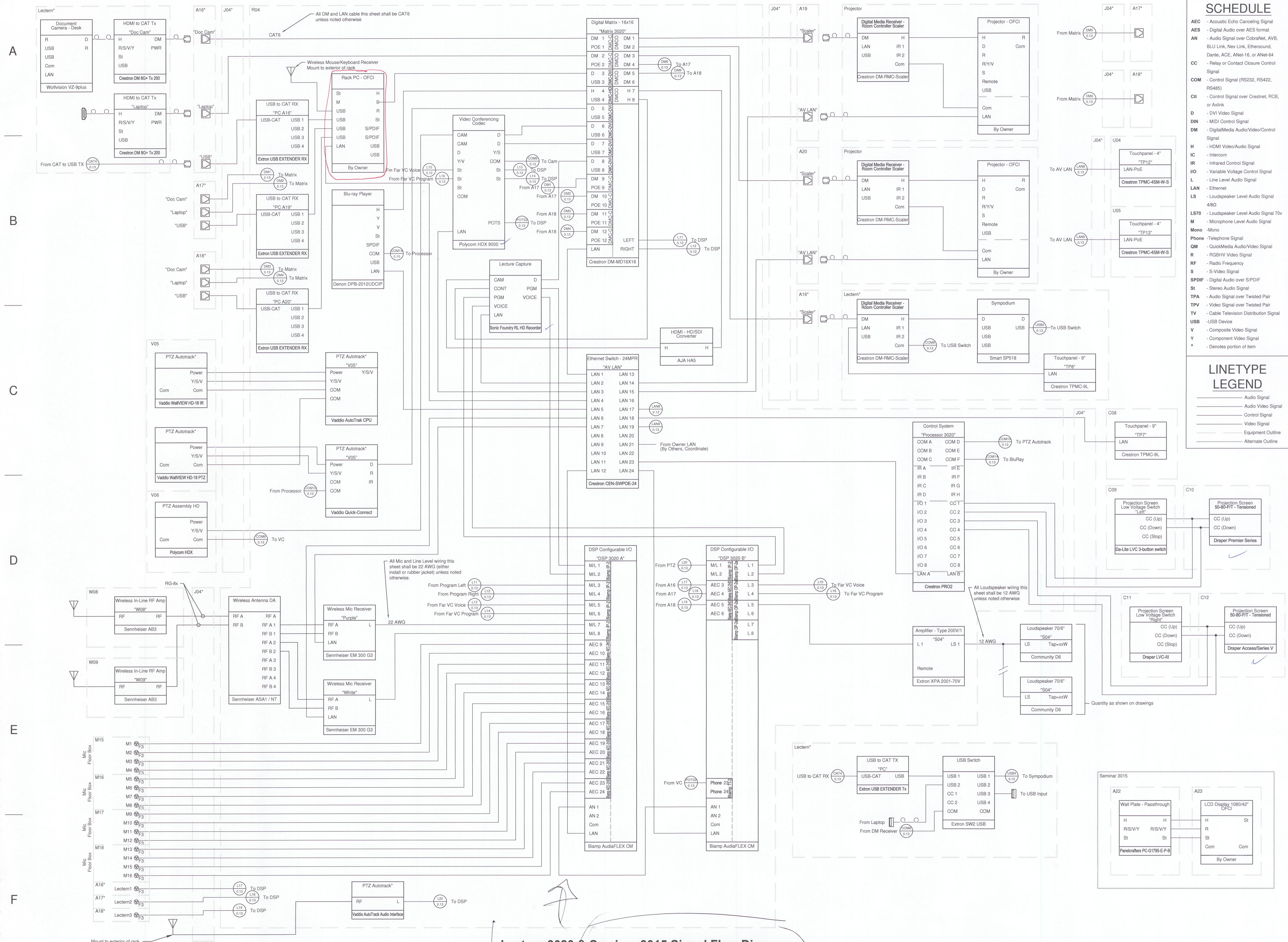


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 SIGNAL FLOW - AUDITORIUM
 1065

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ABBREVIATION SCHEDULE

- AEC - Acoustic Echo Cancelling Signal
- AES - Digital Audio over AES format
- AN - Audio Signal over CobraNet, AVB, BLU Link, Nex Link, EtherSound, Dante, ACE, ANet-16, or ANet-64
- CC - Relay or Contact Closure Control Signal
- COM - Control Signal (RS232, RS422, RS485)
- CHI - Control Signal over Crestron, RC6, or Axlink
- D - DVI Video Signal
- DIN - MIDI Control Signal
- DM - DigitalMedia Audio/Video/Control Signal
- H - HDMI Video/Audio Signal
- IC - Intercom
- IR - Infrared Control Signal
- IO - Variable Voltage Control Signal
- L - Line Level Audio Signal
- LAN - Ethernet
- LS - Loudspeaker Level Audio Signal 4/8Q
- LS70 - Loudspeaker Level Audio Signal 70v
- M - Microphone Level Audio Signal
- Mono - Mono
- Ph - Telephone Signal
- Q - QuickMedia Audio/Video Signal
- R - RGBHV Video Signal
- RF - Radio Frequency
- S - S-Video Signal
- SPDIF - Digital Audio over S/PDIF
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- TPA - Audio Signal over Twisted Pair
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- TV - Cable Television Distribution Signal
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- Y - Component Video Signal
- * - Denotes portion of item

LINETYPE LEGEND

- Audio Signal
- Audio Video Signal
- Control Signal
- Video Signal
- Equipment Outline
- Alternate Outline

Lecture 3020 & Seminar 3015 Signal Flow Diagram

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A/V SYSTEM

AUDIO EQUIPMENT RACK NOTES

- Rack layout is FOR CONCEPT ONLY. Technical Systems Contractor shall verify rack layout for equipment furnished and submit shop drawings.
- The rack layout is shown as a convenience to the bidding Technical Systems Contractor. If there are differences to that shown on the Signal Flow Diagrams, Signal Flows shall take precedence.
- Revise rack layout as required for alternates accepted or rejected.

BOX SCHEDULE NOTES

- Verify quantities, locations, and mounting with SV Locations, Details, and Equipment View drawings.
- Field verify mounting conditions and box size prior to installation. All A/V wall mounted boxes that are shown close to switch or convenience outlet height shall match mounting height and orientation of other boxes on wall. Coordinate any conflicts with appropriate members of the design team.
- All conduit, back boxes, and junction boxes are furnished and installed by the Electrical Contractor unless otherwise noted.
- Refer to Conduit Routing and Separation on this page for conduit spacing and location.
- Provide clear cable path from associated equipment or back box to destination of cable.

GENERAL PANEL AND PLATE NOTES

- Panel and Plate details shown are FOR CONCEPT ONLY. The Technical Systems Contractor shall field verify the size of all components and boxes prior to fabrication.
- Shop Drawings required for all Panels and Plates reflecting exact equipment to be furnished regardless of alternates accepted or rejected.
- These drawings show representative plates only and not every plate required for this project. The intent is to provide the Technical Systems Contractor with sufficient information to understand the requirements for Panel and Plate fabrication.
- Panels or Plates not shown shall have similar layouts.
- Refer to the Specifications for additional Panel and Plate requirements.
- All gang plates shall be 1/8" thick black anodized aluminum with engraved or laser etched lettering.

LOUDSPEAKER INSTALLATION NOTES

- All structural details, structural member types, sizes, and attachment methods are shown FOR CONCEPT ONLY. Final design shall be made by the Technical System Contractor and shall be verified by the Architect.
- Technical System Contractor shall reorient loudspeakers if so requested by Acoustical Consultant during system commissioning activities.
- Paint all loudspeakers, miscellaneous steel, and support hardware two coats of black alkyl satin enamel (or color as selected by the Architect), use primer per manufacturer's recommendations. DO NOT paint loudspeaker cones nor diaphragms of high frequency drivers. Painting by Technical System Contractor.
- Technical System Contractor shall provide access to loudspeakers during installation, testing, and commissioning activities.
- Install loudspeakers so there are no obstructions to each loudspeaker's coverage pattern.

MILLWORK NOTES

- Walls, floors, and ceiling surrounding sound console and/or A/V racks furnished under general contract. Technical System Contractor shall furnish all sound equipment and wiring. The counter top shall be furnished and installed by the Millwork Contractor. The turrets and/or A/V racks shall be provided by the Technical System Contractor. Technical System Contractor shall coordinate fit and finish for each turret and/or A/V rack.
- Verify all existing conditions at console and/or A/V rack location prior to fabrication.
- Technical System Contractor shall coordinate equipment, counter depth, etc.
- All drawings for concept only. Verify sizes of equipment furnished prior to fabrication. The Technical System Contractor shall coordinate all millwork with Millwork Contractor.
- Technical System Contractor shall submit shop drawings and obtain approval prior to fabrication. Shop drawings shall reflect A/V system equipment requirements.
- Plastic laminate colors shall be selected by Architect. Construction shall match millwork furnished by Millwork Contractor in other areas. See Architectural drawings and details.
- All millwork shall be 3/4" plywood construction with plastic laminate on all exposed surfaces and constructed to meet AWI-400 construction standards.
- All cabinet doors, drawers, or locking cabinets shall be provided with key locks. All locks shall be keyed alike.
- All items relating to sound system furnished by Technical System Contractor unless noted otherwise.

CONDUIT/CIRCUIT GROUP DIVISIONS

| Group | Descriptions | Level | Bandwidth |
|-------|--|-----------------------------------|-----------------|
| M | Microphone Level Audio Circuits | below -30dBu | 20 Hz to 20 kHz |
| L | Line Level Audio Circuits | 30dBu to +24dBu | 20 Hz to 20 kHz |
| RF | RF Level Circuits including wireless microphone, antenna cable, and TV distribution | Greater than +24dBu | 20 Hz to 20 kHz |
| S | Speaker Level Audio Circuits including both low impedance and high impedance (70 volt) types | Greater than +24dBu | 20 Hz to 20 kHz |
| V | Video | 1 Volt peak-to-peak into 75 Ohms | 0 Hz to 250 MHz |
| | Control Circuits | 0 - 28 Volt into <50 Ohms | |
| | Data Circuits | 2 Volt peak-to-peak into 100 Ohms | 0 Hz to 100 MHz |

CONDUIT ROUTING AND SEPARATION

| EMT | Separation | | | | | |
|-------------------------|------------|-----------|-----------|-----------|-----------|-----------|
| | RIGID | M | L | RF | S | V |
| M | -- | Adjacent | 6 inches | 12 inches | 12 inches | 12 inches |
| L | -- | 6 inches | Adjacent | 12 inches | 12 inches | 6 inches |
| RF | -- | 12 inches | 12 inches | Adjacent | Adjacent | 6 inches |
| S | -- | 12 inches | 12 inches | Adjacent | Adjacent | 6 inches |
| V | -- | 12 inches | 6 inches | 6 inches | 6 inches | Adjacent |
| Power Conduit Under 60A | -- | 24 inches | 24 inches | 24 inches | 24 inches | 24 inches |
| Power Conduit 60A | -- | 36 inches | 36 inches | 36 inches | 36 inches | 36 inches |
| Power Conduit 120A | -- | 48 inches | 48 inches | 48 inches | 48 inches | 48 inches |
| Power Conduit 240A | -- | RIGID | RIGID | RIGID | RIGID | RIGID |
| Power Conduit 400A | -- | RIGID | RIGID | RIGID | RIGID | RIGID |

| EMT | Separation | | | | | |
|-------------------------|------------|-----------|-----------|-----------|-----------|-----------|
| | RIGID | M | L | RF | S | V |
| M | -- | Adjacent | 6 inches | 12 inches | 12 inches | 12 inches |
| L | -- | 6 inches | Adjacent | 12 inches | 12 inches | 6 inches |
| RF | -- | 12 inches | 12 inches | Adjacent | Adjacent | 6 inches |
| S | -- | 12 inches | 12 inches | Adjacent | Adjacent | 6 inches |
| V | -- | 12 inches | 6 inches | 6 inches | 6 inches | Adjacent |
| Power Conduit Under 60A | -- | 4 inches | 4 inches | 4 inches | 4 inches | 4 inches |
| Power Conduit 60A | -- | 8 inches | 8 inches | 8 inches | 8 inches | 8 inches |
| Power Conduit 120A | -- | 12 inches | 12 inches | 12 inches | 12 inches | 12 inches |
| Power Conduit 240A | -- | 24 inches | 24 inches | 24 inches | 24 inches | 24 inches |
| Power Conduit 400A | -- | 48 inches | 48 inches | 48 inches | 48 inches | 48 inches |

| EMT | Separation | | | | | |
|-------------------------|------------|-----------|-----------|-----------|-----------|-----------|
| | RIGID | M | L | RF | S | V |
| M | -- | Adjacent | Adjacent | Adjacent | Adjacent | Adjacent |
| L | -- | Adjacent | Adjacent | Adjacent | Adjacent | Adjacent |
| RF | -- | Adjacent | Adjacent | Adjacent | Adjacent | Adjacent |
| S | -- | Adjacent | Adjacent | Adjacent | Adjacent | Adjacent |
| V | -- | Adjacent | Adjacent | Adjacent | Adjacent | Adjacent |
| Power Conduit Under 60A | -- | 1 inches | 1 inches | 1 inches | 1 inches | 1 inches |
| Power Conduit 60A | -- | 2 inches | 2 inches | 2 inches | 2 inches | 2 inches |
| Power Conduit 120A | -- | 4 inches | 4 inches | 4 inches | 4 inches | 4 inches |
| Power Conduit 240A | -- | 8 inches | 8 inches | 8 inches | 8 inches | 8 inches |
| Power Conduit 400A | -- | 16 inches | 16 inches | 16 inches | 16 inches | 16 inches |

CONDUIT LEGEND

| | | | |
|----|--|--|---|
| #L | Conduit specified for Line Level signals only. "#" specifies size of conduit as described in this legend. | | Conduit path |
| #M | Conduit specified for Microphone Level signals only. "#" specifies size of conduit as described in this legend. | | Conduit path continues on to box as designated |
| #S | Conduit specified for Loudspeaker Level signals only. "#" specifies size of conduit as described in this legend. | | Conduit stub to accessible portion of ceiling. Bush conduit ends. |
| #V | Conduit specified for Video signals only. "#" specifies size of conduit as described in this legend. | | Conduit stub to raised access floor space. Bush conduit ends. |
| #W | Conduit specified for Wireless/RF signals only. "#" specifies size of conduit as described in this legend. | | Exposed cable path. No Conduit. |
| 1 | 0.75" Conduit (qty 1) | | Box symbol. "X" determines function of box (refer to BOX LABEL LEGEND). "#" determines box designation. |
| 2 | 1" Conduit (qty 1) | | Box symbol. Similar to above. AC Power and/or Data required (AC Power and Data by others, shown for reference only). |
| 3 | 1.25" Conduit (qty 1) | | Flush mounted ceiling loudspeaker. Internal "S#" designator determines loudspeaker zone. External "#" designates loudspeaker number within each zone. |
| 4 | 1.5" Conduit (qty 1) | | Loudspeaker Aim Point. Designator beneath symbol references associated loudspeaker. |
| 5 | 2" Conduit (qty 1) | | |
| 6 | 2.5" Conduit (qty 1) | | |

SIGNAL FLOW BLOCK LEGEND

| Block Description | Specification Reference |
|-------------------|---------------------------------|
| "LABEL" | Device Identification and Label |
| Y/SV 1 | Y/SV 1,2 |
| M/L 1 | SI 1 |
| Y/SV 2 | Y/SV 3 |
| M/L 2 | SI 2 |
| R/Y 3 | R/Y/SV 4 |
| SI 1 | SI 3 |
| R/Y 4 | QM 5 |
| SI 2 | QM 6 |
| R/Y 5 | QM 7 |
| SI 3 | Cont Net |
| SI 4 | Cont Net |
| QM 1 | Cont Net |
| QM 2 | LS L |
| QM 3 | LS R |
| USB | Com A |
| IR In | Com B |
| IO | IR A |
| IO | IR B |
| IO | IR C |
| IO | IR D |
| LAN | CC 1 |
| | CC 2 |

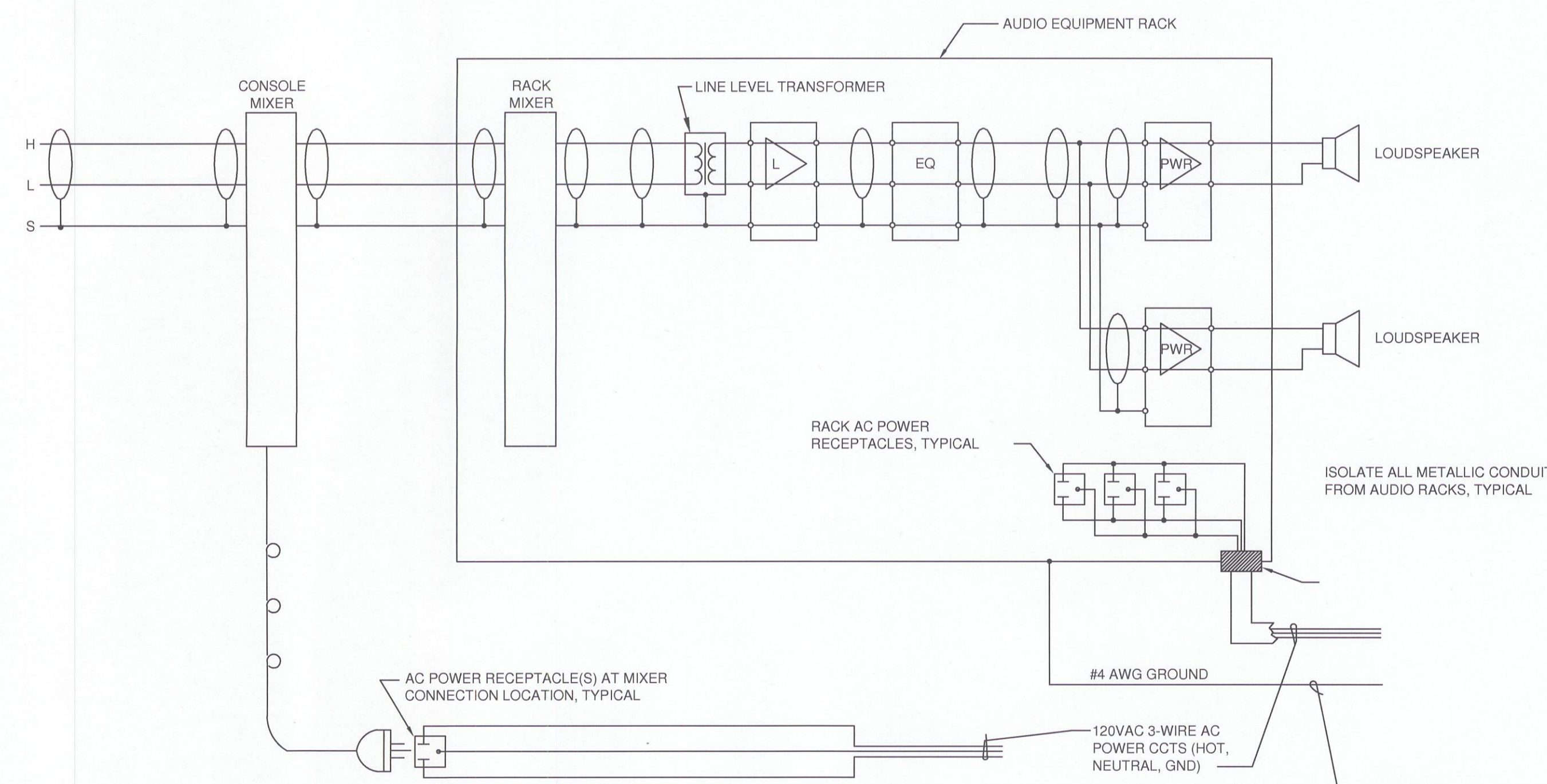
Product Name/Model# — Product Reflecting Primary Design Intent

BOX LABEL LEGEND

| | |
|---|-------------------------|
| A | Assorted |
| B | Blank / Future |
| C | Control |
| J | Junction / Pull Box |
| L | Line-Level Audio |
| M | Microphone-Level Audio |
| P | Production Intercom |
| R | Rack Pull Box |
| S | Loudspeaker-Level Audio |
| T | Television Distribution |
| V | Video |
| W | Wireless / RF |

SHEET LIST

| Sheet Number | Sheet Title |
|--------------|--------------------------------------|
| SV0.00 | Notes |
| SV0.01 | Symbols |
| SV0.10 | Signal Flow - Auditorium 1065 |
| SV0.11 | Signal Flow - Conference 1020 & 1050 |
| SV0.12 | Signal Flow - Classroom 2020 & 2030 |
| SV0.13 | Signal Flow - Lecture 3020 |
| SV0.30 | Rack Details |
| SV0.50 | Schedules |
| SV2.01 | Basement & First Level Floor Plan |
| SV2.02 | Second & Third Level Floor Plan |
| SV3.01 | Basement & First Level RCP |
| SV3.02 | Second & Third Level RCP |



SOUND AND A/V SYSTEM GROUNDING SCHEME

- THIS SCHEME FOR GROUNDING CONCEPT ONLY. SCHEME APPLICABLE TO ALL SOUND SYSTEMS FOR THIS PROJECT. REFER TO THE AUDIO DIAGRAM(S) FOR EXACT EQUIPMENT ARRANGEMENTS, AND REFER TO SOUND SYSTEM AC POWER DIAGRAM(S) AND APPLICABLE SPECIFIED AC POWER ITEMS, FOR EXACT POWER REQUIREMENTS.
- ISOLATE ALL EQUIPMENT FROM CONDUIT AND BUILDING STEEL TO ASSURE GROUNDING ONLY VIA GROUND WIRE(S) SHOWN.
- SHOWN FOR STANDARD POWER TRANSFORMER. IF ISOLATION TRANSFORMER FURNISHED, REVISE GROUNDING REQUIREMENTS ACCORDINGLY AND AS APPROVED.

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PROJ NO: 2999.01
DATE: 10-28-2011
REVISIONS:

SHEET NAME:
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