

# RAYTOWN SD - MIDDLE SCHOOL AV UPDATES

## Raytown Quality Schools

### District Office

### 6608 Raytown Road

### Raytown, MO 64133

# CONSTRUCTION DOCUMENTS

we design the future™  
 1828 Walnut Street Suite 922  
 Kansas City, MO 64108  
 1 816.442.7700  
 115 Wilcox Street Suite 210  
 Castle Rock, CO 80104  
 1 720.949.1689  
 HOLLISANDMILLER.COM

Hollis + Miller Architects  
 Missouri State Certificate of Authority  
 Architecture # 00000001  
 Structure # 2006037333

Avant Acoustics  
 Audio / Visual  
 14827 W 95th St  
 Lenexa, KS 66215  
 913.888.9111 phone

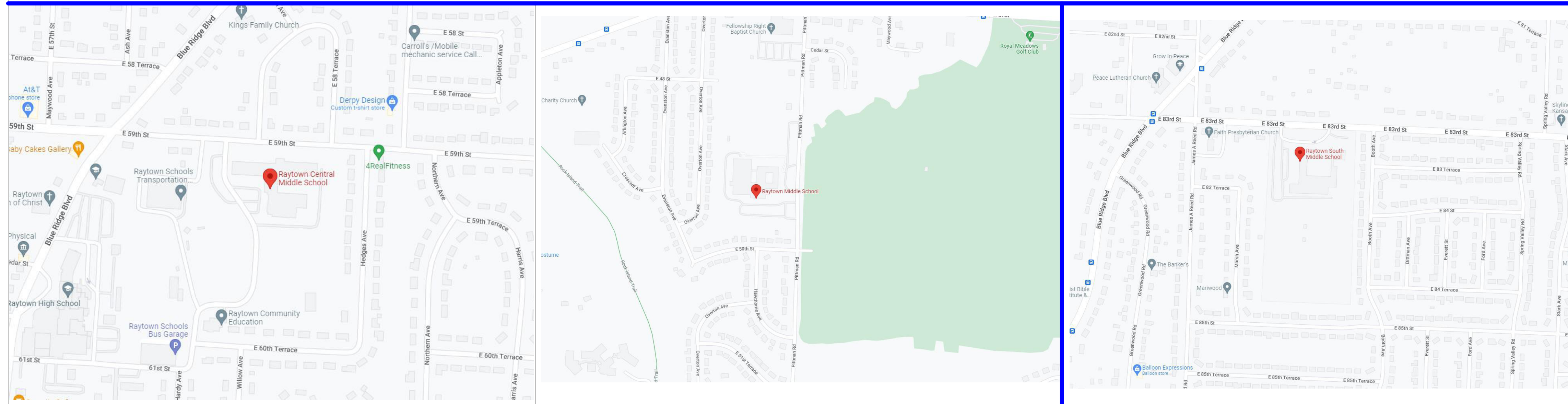
RTM Engineering  
 MEP Engineering  
 State Certificate of Authority #2014035626  
 9225 Indian Creek Pkwy  
 Overland Park, KS 66210  
 913.322.1400 phone

hollis + miller architects  
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E101-M	FIRST FLOOR - ELECTRICAL PLAN
E101-S	FIRST FLOOR - ELECTRICAL PLAN
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## VICINITY MAPS



**RAYTOWN CENTRAL MIDDLE SCHOOL**  
 10601 E 59th Street  
 Raytown, MO 64133

**RAYTOWN MIDDLE SCHOOL**  
 4900 Pittman Rd  
 Kansas City, MO 64133

**RAYTOWN SOUTH MIDDLE SCHOOL**  
 8401 E 83rd Street  
 Raytown, MO 64138

## DESIGN TEAM

**ARCHITECT:**  
 Hollis + Miller Architects  
 1828 Walnut Street Ste 922  
 Kansas City, MO 64108  
 CONTACT: Patrick Thompson  
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 FAX: 816.599.2545

**MECH/ELECT ENGINEER:**  
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 FAX: 123.456.7890

**ACOUSTICAL CONSULTANT:**  
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 Lenexa, KS 66215  
 CONTACT: John Hodgson  
 PHONE: 913.888.9111

Raytown SD - Middle School AV Updates

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Construction Documents

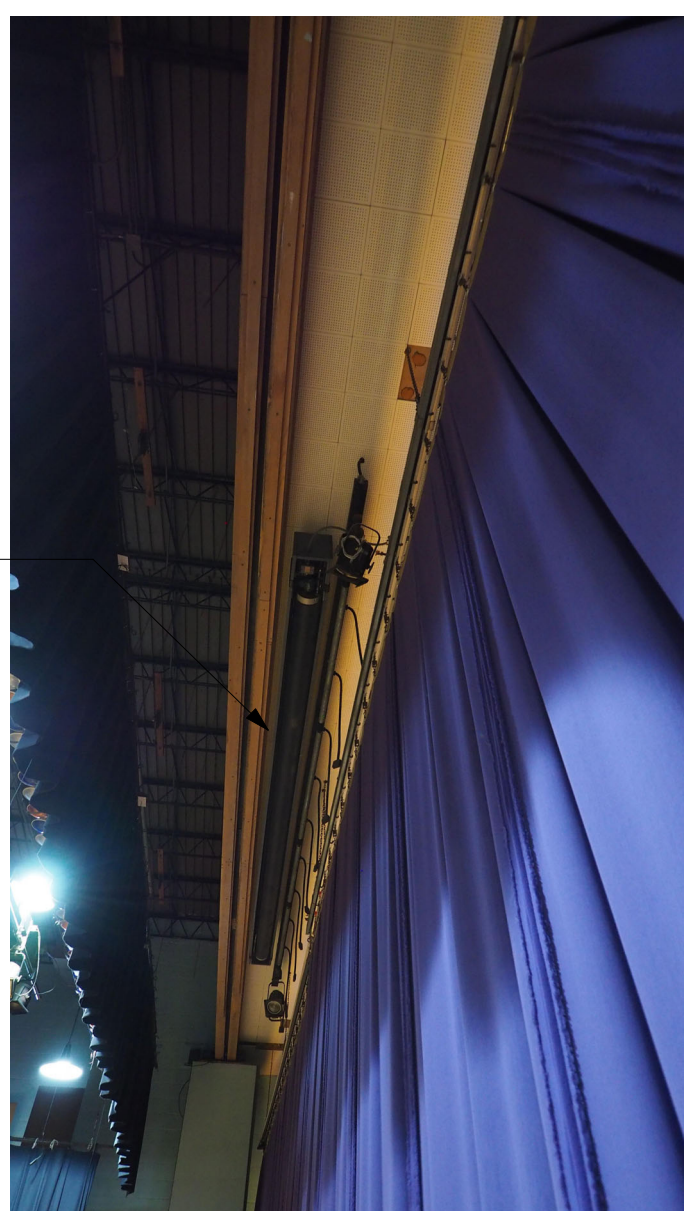
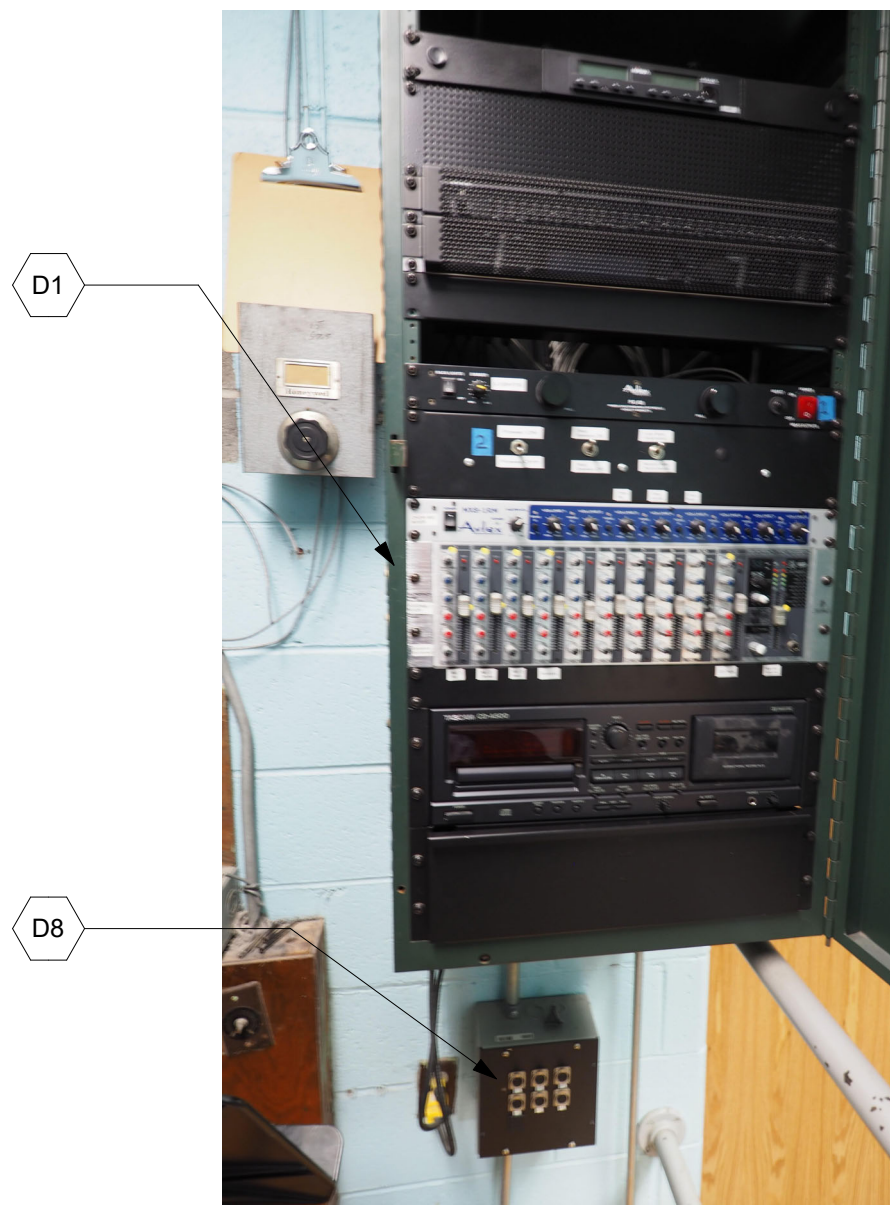
REVISIONS:

#	Description	Date



JOB NO: 22193  
 DRAWN BY: PT  
 CHECKED BY: JB  
 DATE: 01.17.2023

**G000**



**SHEET KEYNOTE LEGEND**

- D1 REMOVE EXISTING WALL MOUNTED EQUIPMENT RACK. PATCH ANY WALL DAMAGE.
- D2 REMOVE EXISTING WALL MOUNTED LOUDSPEAKERS, MOUNTING BRACKETS, AND HARDWARE AND TURN OVER TO OWNER. PATCH ANY WALL DAMAGE.
- D3 REMOVE EXISTING CEILING MOUNTED LOUDSPEAKERS, MOUNTING BRACKETS, AND HARDWARE AND TURN OVER TO OWNER.
- D4 REMOVE EXISTING CONNECTION PANEL, JUNCTION BOX, AND ASSOCIATED WIRING.
- D5 REMOVE MOTORIZED PROJECTION SCREEN.
- D6 REMOVE HANGING MICROPHONE, BOX, AND ASSOCIATED WIRING. TURN MICROPHONES OVER TO OWNER.
- D7 REMOVE EXISTING CONNECTION PANEL AND ASSOCIATED WIRING. INSTALL BLANK COVERPLATE.
- D8 REMOVE COVERPLATE AND ALL ASSOCIATED WIRING FROM EXISTING BOX. LEAVE BOX AND CONDUIT IN PLACE FOR REUSE.

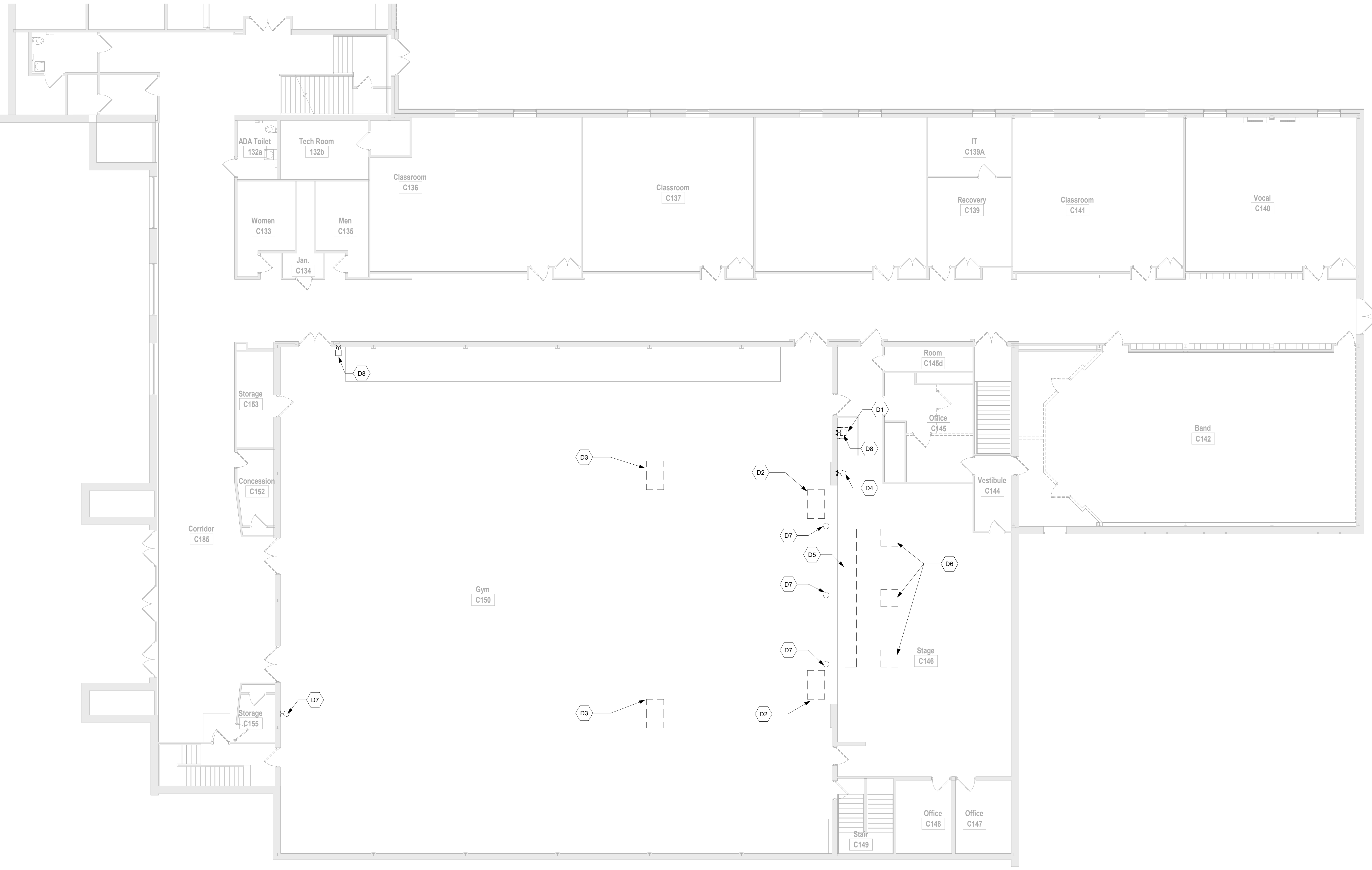
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RAYTOWN MIDDLE SCHOOL  
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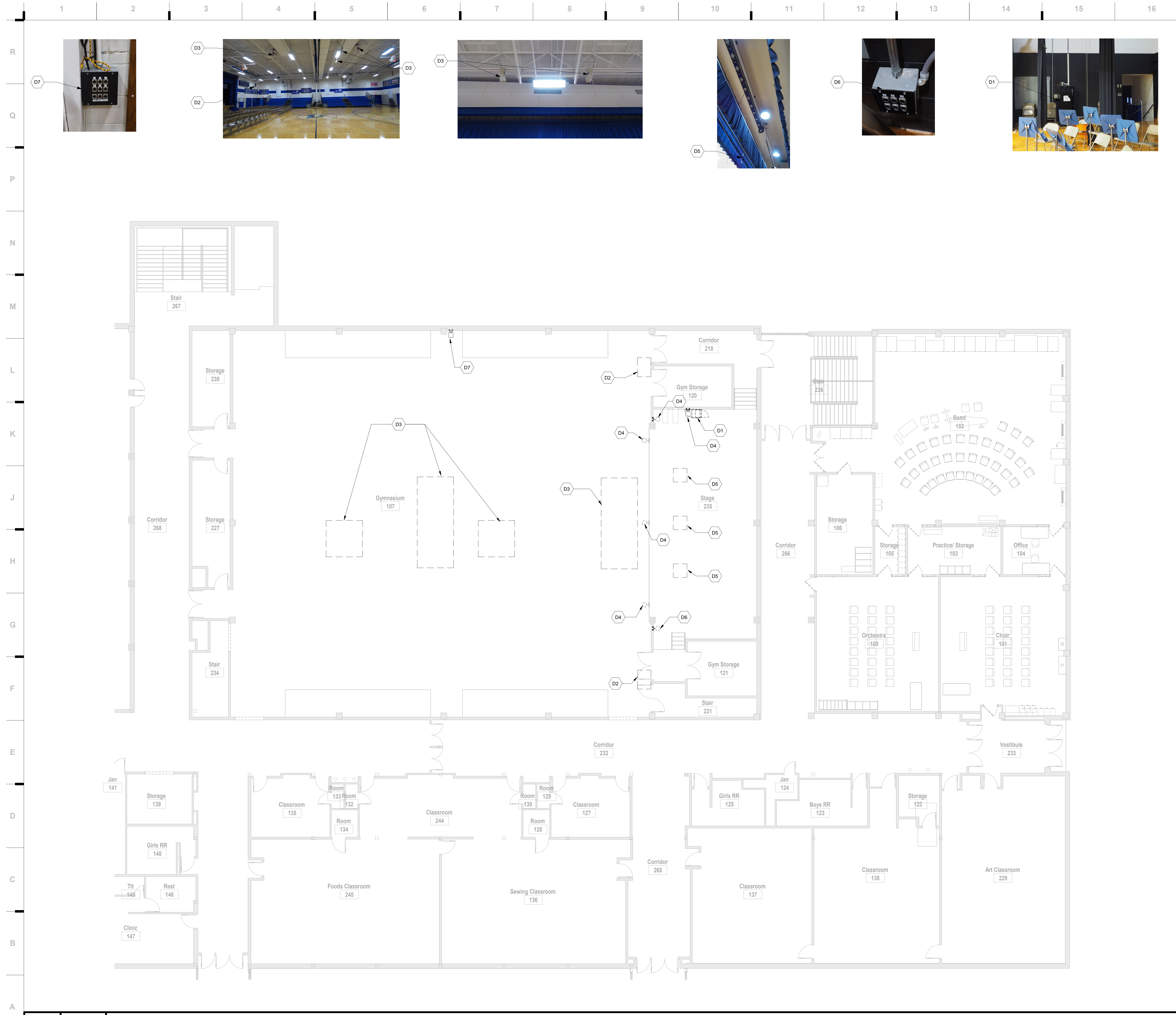
RAYTOWN SOUTH MIDDLE SCHOOL  
 8411 E. 38th St  
 Raytown, MO 64138

**REVISIONS:**

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JOB NO: 22193  
 DRAWN BY: AJV  
 CHECKED BY: JMH  
 DATE: 01.17.2023

**DAV101.C**



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- D7 REMOVE COVERPLATE AND ALL ASSOCIATED WIRING FROM EXISTING BOX, LEAVE BOX AND CONDUIT IN PLACE FOR REUSE.

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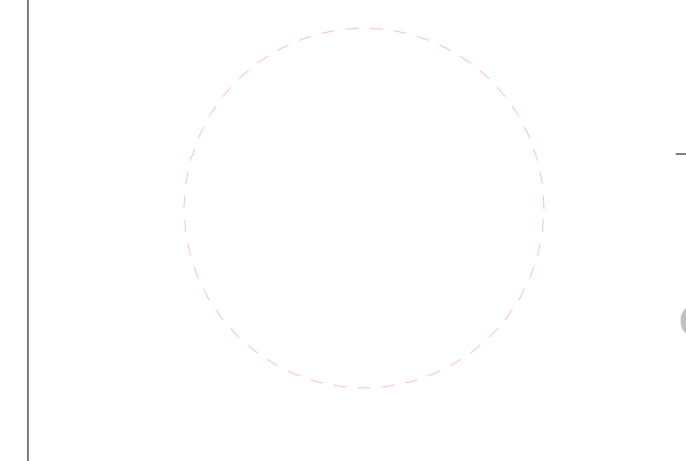
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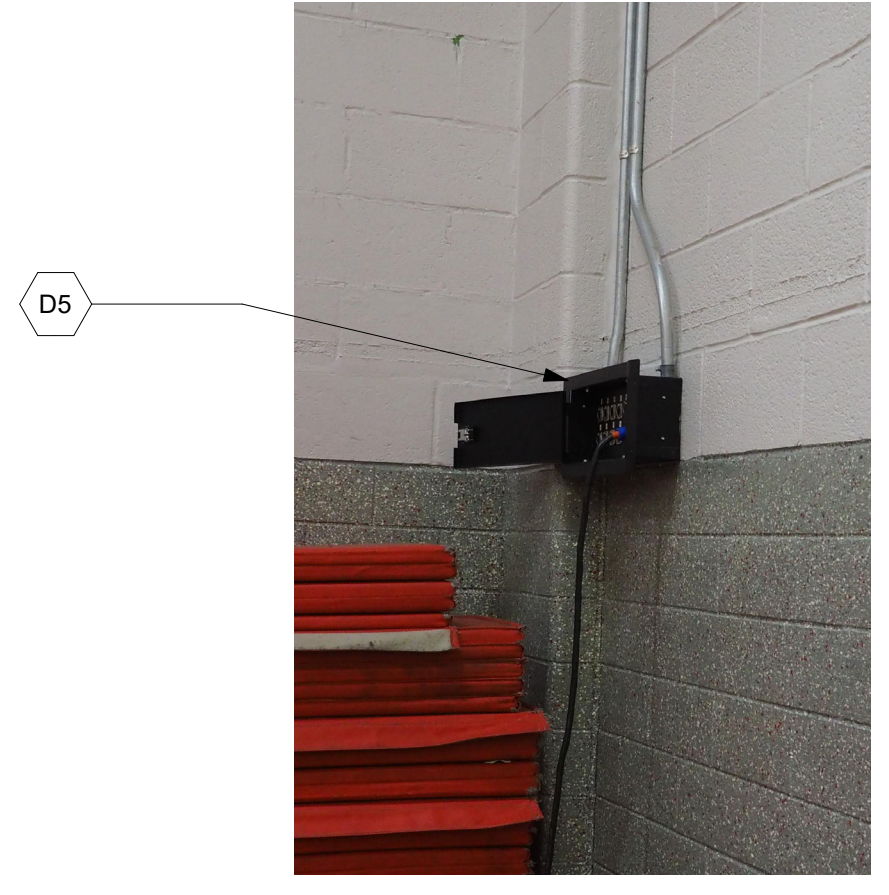
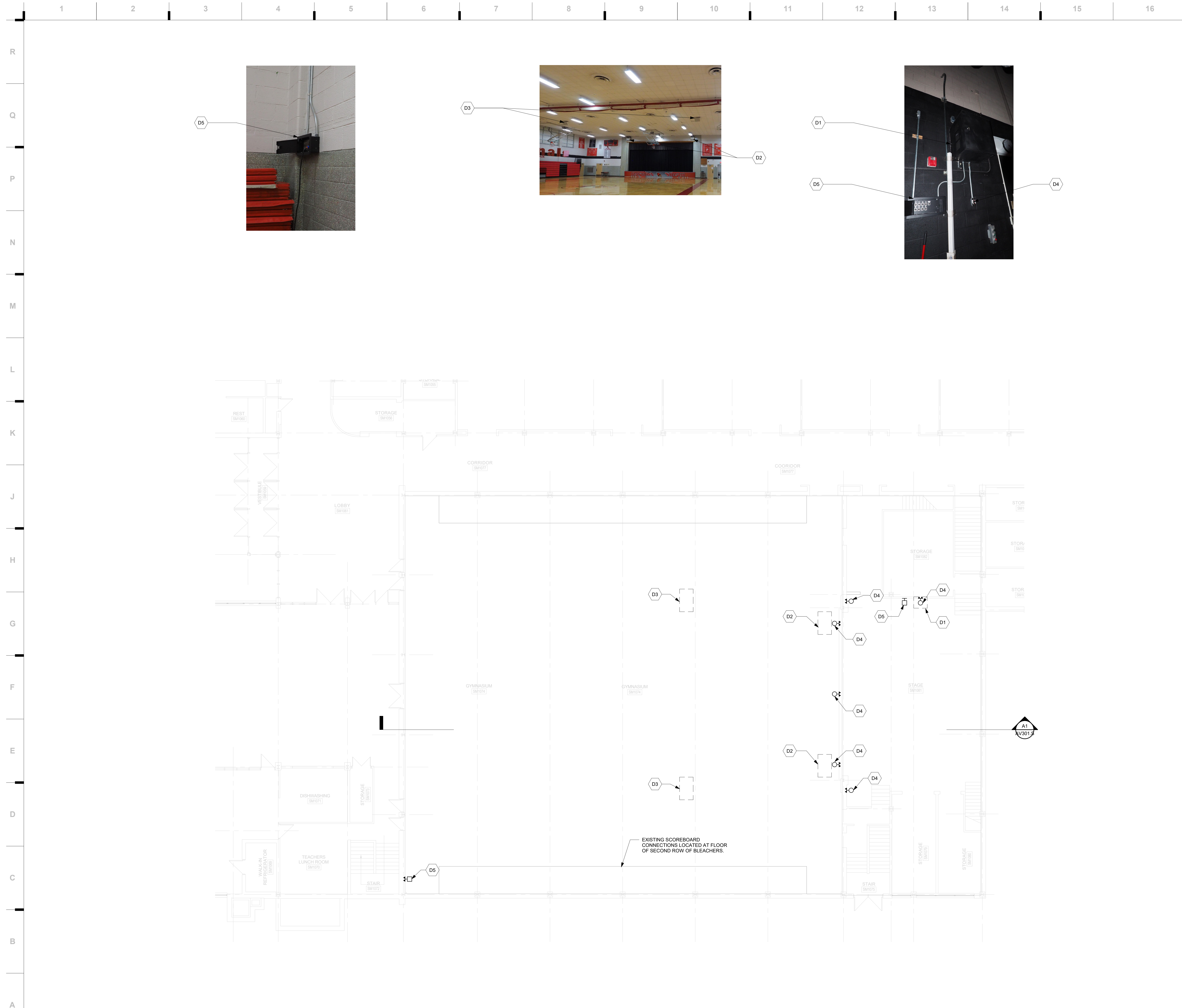
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**DAV101.M**

CONSTRUCTION DOCUMENTS

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1/17/2023 11:31:16 AM



D3



D2

D1



D5

D4

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- D5 REMOVE EXISTING BOX AND ALL ASSOCIATED WIRING, LEAVE CONDUIT IN PLACE FOR REUSE.

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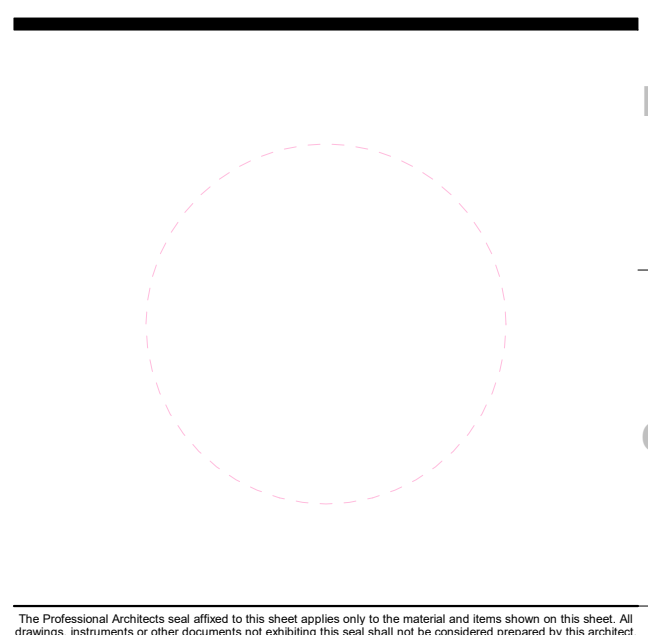
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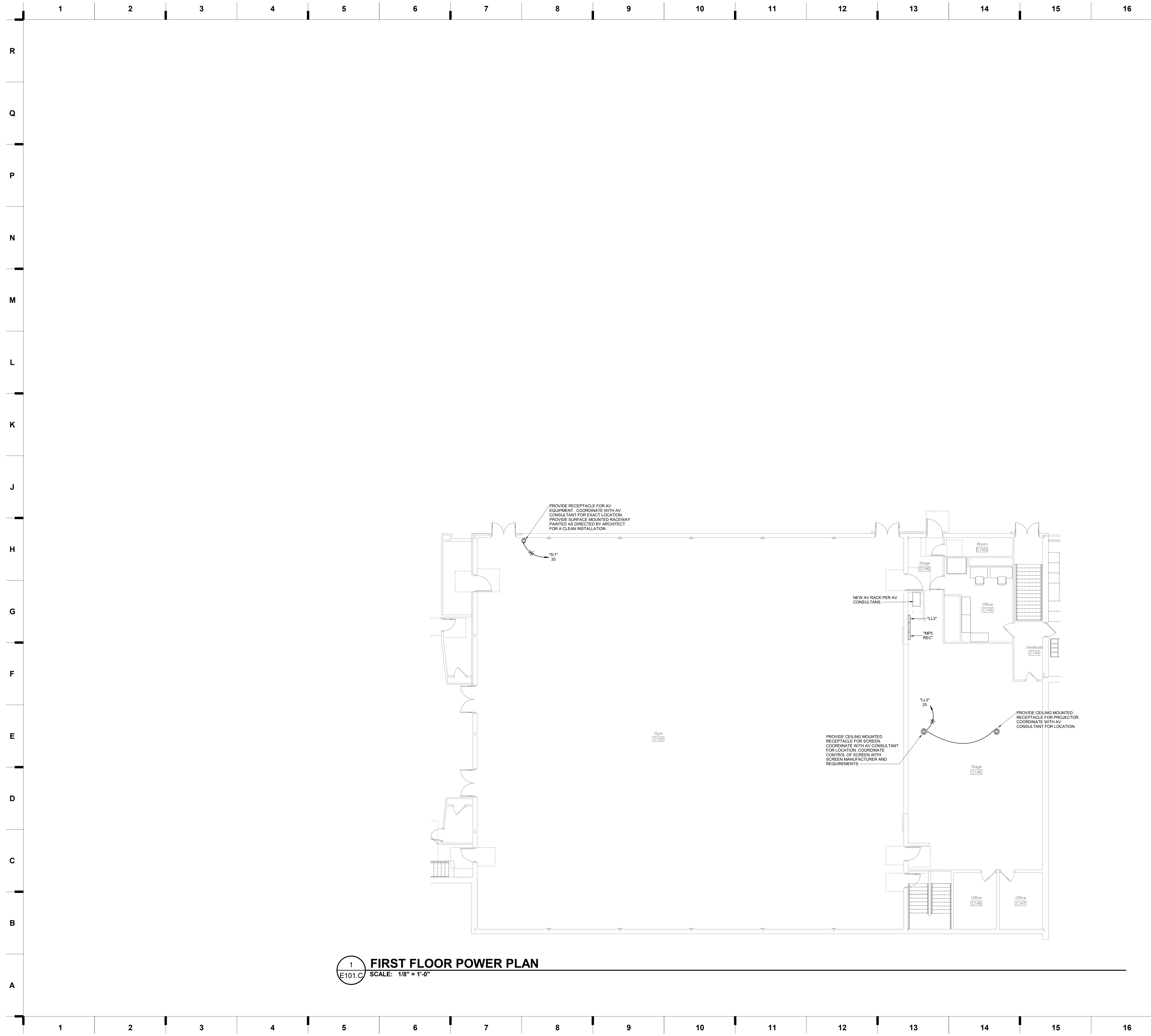


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 CHECKED BY: JMH  
 DATE: 01.17.2023

**DAV100.S**

CONSTRUCTION DOCUMENTS

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1 FIRST FLOOR POWER PLAN  
 E101.C SCALE: 1/8" = 1'-0"

- GENERAL NOTES:**
- THESE GENERAL NOTES APPLY TO ALL ELECTRICAL AND SPECIAL SYSTEMS DRAWINGS. REFER TO DIVISION 26, 27 AND 28 SPECIFICATIONS FOR ADDITIONAL ELECTRICAL AND SPECIAL SYSTEMS SPECIFICATIONS AND REQUIREMENTS.
  - ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE 2017 NATIONAL ELECTRIC CODE AS ADOPTED BY THE LOCAL AHJ.
  - CONTRACTOR SHALL SECURE AND PAY FOR NECESSARY MEP PERMITS AND CERTIFICATES OF INSPECTION REQUIRED BY GOVERNMENTAL ORDINANCES, LAWS, RULES, OR REGULATIONS.
  - FINAL ACCEPTANCE OF WORK SHALL BE SUBJECT TO THE CONDITION THAT ALL SYSTEMS, EQUIPMENT, APPARATUS, AND APPLIANCES OPERATE SATISFACTORILY AS DESIGNED AND INTENDED. WORK SHALL INCLUDE REQUIRED REPLACEMENT, ADJUSTMENT OF SYSTEMS AND CONTROL EQUIPMENT AND ALL REQUIRED PROGRAMMING INSTALLED. PROVIDE FOR ALL WORK INDICATED ON DRAWINGS OR AS REASONABLY IMPLIED.
  - TEST ALL LINES, SYSTEMS, EQUIPMENT BEFORE THEY ARE INSULATED, PAINTED, OR CONCEALED BY CONSTRUCTION OR BACKFILLING. PROVIDE FUEL, WATER, ELECTRICITY, MATERIALS, LABOR, AND EQUIPMENT REQUIRED FOR TESTS. REPAIR OR REPLACE DEFECTS, AND MATERIALS FAILURES REVEALED BY TESTS AND THEN RETESTED UNTIL SATISFACTORY. MAKE REPAIRS WITH NEW MATERIALS.
  - PROVIDE NECESSARY MATERIALS AND ACCESSORIES FOR INSTALLATION OF FIXTURES, EQUIPMENT, ETC AS REQUIRED FOR COMPLETE AND FUNCTIONAL OPERATION AS NOTED ON DRAWINGS OR IN NOTES.
  - ALL EQUIPMENT, FIXTURES, MATERIALS, ETC SHALL BE INSTALLED IN NEAT, PROFESSIONAL MANNER IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
  - THE CONTRACTOR SHALL CONTACT THE OWNER AND COORDINATE ALL OUTAGES 5 DAYS PRIOR TO ANY SHUT-OFF OF SERVICES.
  - PROVIDE ALL FIRE RATED MATERIAL FOR PATCH AND REPAIR FOR ALL FIRE RATED ASSEMBLIES. ALL OPENINGS SHALL BE SEALED AND CLOSED IN APPROVED MANNER. PROVIDE SLEEVE WHERE NEEDED DUE TO SCOPE OF WORK.
  - THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING BID. NO EXTRAS WILL BE PAID DUE TO UNANTICIPATED EXISTING CONDITIONS.
  - THE CONTRACTOR SHALL SCHEDULE AND EXECUTE ALL WORK WITH REGARD TO THE OWNER'S USE OF THE BUILDING.
  - PLANS ARE DIAGNOSTIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
    - REFER TO ARCHITECTURAL DRAWINGS FOR TYPICAL ROOM INTERIOR ELEVATIONS, COORDINATE EXACT DEVICE LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO ROUGH-IN.
    - COORDINATE ALL WIRING DEVICE LOCATIONS SHOWN AT MILLWORK LOCATIONS WITH THE MILLWORK CONTRACTOR AND GENERAL CONTRACTOR PRIOR TO ANY ROUGH-IN OR INSTALLATION. ALL WIRING DEVICES SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS AND SHALL NOT BE CONCEALED.
  - PROVIDE PULL BOXES AS REQUIRED TO PROPERLY INSTALL THE RACEWAYS AND CIRCUITS INDICATED.
  - ALL EMPTY CONDUITS SHALL BE PROVIDED WITH ROT-PROOF PULL-TAPE, LABELED AT EACH END. ALL CONDUITS SHALL BE PROVIDED WITH PLASTIC BUSHINGS WHERE TERMINATED OPEN-ENDED.
  - SEAL ALL PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES AS NECESSARY TO RESTORE FIRE-RESISTANCE RATING OF ASSEMBLY. REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR RATED ASSEMBLIES, FIRE STOPPING MATERIALS, AND REQUIREMENTS.
  - EACH CONTRACTOR AND SUB-CONTRACTOR OR TRADE SHALL REVIEW THE BID DOCUMENTS AS A WHOLE, INCLUDING ALL OTHER TRADES' DRAWINGS AND PROVIDE ANY MISC. ITEMS, MATERIALS, WORK, ETC. REQUIRED TO COMPLETE THE WORK AS SHOWN ON ALL BID DOCUMENTS. THIS REQUIREMENT APPLIES TO ALL TRADES: STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, EQUIPMENT VENDORS, ETC. REQUIREMENTS AND RELATED WORK ARE INDICATED THROUGHOUT THE BID DOCUMENTS AND SHALL BE REVIEWED WITH THE SPECIFIC MEP, STRUCTURAL, ARCHITECTURAL AND EQUIPMENT DRAWINGS FOR OVERALL SCOPE OF WORK.
  - PROVIDE FINAL CONNECTION TO ALL EQUIPMENT, INCLUDING ANY CORDS AND PLUG SETS FOR EQUIPMENT NOT PROVIDED WITH IT (WHETHER SPECIFICALLY NOTED OR NOT). COORDINATE ALL WORK WITH THE EQUIPMENT SUPPLIER AND OWNER AND VERIFY ALL ROUGH-IN LOCATIONS AND REQUIREMENTS PRIOR TO ANY ROUGH-IN.
  - PROVIDE A SEPARATE CODE SIZED GREEN EQUIPMENT GROUND CONDUCTOR IN ALL CONDUITS AND RACEWAYS CONTAINING LINE VOLTAGE CIRCUITS (200V OR HIGHER).
  - NEUTRALS SHALL NOT BE SHARED FOR ANY CIRCUIT, UNLESS SPECIFICALLY NOTED ON PLANS.
  - WIRE SIZE INDICATED BY BRANCH CIRCUIT AT HOMERUN SHALL BE CARRIED THROUGHOUT THE CIRCUIT TO FINAL CONNECTION AT EQUIPMENT. FINAL EXTENSION OF CIRCUIT TO EQUIPMENT MAY NOT BE SHOWN FOR CLARITY BUT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR FOR FINAL CONNECTION.
  - SUPPORTS, CONDUIT, BOXES, ETC. INSTALLED IN AREAS WITH EXPOSED STRUCTURE SHALL BE PAINTED TO MATCH ADJACENT FINISHES.

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**REVISIONS:**

#	Description	Date

James Basquette  
 2023 License # E-29112  
 Mechanical  
 11111 Main Street  
 Raytown, MO 64133  
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JOB NO:  
 DRAWN BY: KEH  
 CHECKED BY: JRB  
 DATE: 01/17/2023

**E101.C**

**Construction Documents**

**GENERAL NOTES:**

- A. THESE GENERAL NOTES APPLY TO ALL ELECTRICAL AND SPECIAL SYSTEMS DRAWINGS. REFER TO DIVISION 26, 27 AND 28 SPECIFICATIONS FOR ADDITIONAL ELECTRICAL AND SPECIAL SYSTEMS SPECIFICATIONS AND REQUIREMENTS.
- B. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE 2017 NATIONAL ELECTRIC CODE AS ADOPTED BY THE LOCAL AHJ.
- C. CONTRACTOR SHALL SECURE AND PAY FOR NECESSARY MEP PERMITS AND CERTIFICATES OF INSPECTION REQUIRED BY GOVERNMENTAL ORDINANCES, LAWS, RULES, OR REGULATIONS.
- D. FINAL ACCEPTANCE OF WORK SHALL BE SUBJECT TO THE CONDITION THAT ALL SYSTEMS, EQUIPMENT, APPARATUS, AND APPLIANCES OPERATE SATISFACTORILY AS DESIGNED AND INTENDED. WORK SHALL INCLUDE REQUIRED REPLACEMENT, ADJUSTMENT OF SYSTEMS AND CONTROL EQUIPMENT AND ALL REQUIRED PROGRAMMING INSTALLED. PROVIDE FOR ALL WORK INDICATED ON DRAWINGS OR AS REASONABLY IMPLIED.
- E. TEST ALL LINES, SYSTEMS, EQUIPMENT BEFORE THEY ARE INSULATED, PAINTED, OR CONCEALED BY CONSTRUCTION OR BACKFILLING. PROVIDE FUEL, WATER, ELECTRICITY, MATERIALS, LABOR, AND EQUIPMENT REQUIRED FOR TESTS. REPAIR OR REPLACE DEFECTS, AND MATERIALS FAILURES REVEALED BY TESTS AND THEN RETESTED UNTIL SATISFACTORY. MAKE REPAIRS WITH NEW MATERIALS.
- F. PROVIDE NECESSARY MATERIALS AND ACCESSORIES FOR INSTALLATION OF FIXTURES, EQUIPMENT, ETC AS REQUIRED FOR COMPLETE AND FUNCTIONAL OPERATION AS NOTED ON DRAWINGS OR IN NOTES.
- G. ALL EQUIPMENT, FIXTURES, MATERIALS, ETC SHALL BE INSTALLED IN NEAT, PROFESSIONAL MANNER IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
- H. THE CONTRACTOR SHALL CONTACT THE OWNER AND COORDINATE ALL OUTAGES 5 DAYS PRIOR TO ANY SHUT-OFF OF SERVICES.
- I. PROVIDE ALL FIRE RATED MATERIAL FOR PATCH AND REPAIR FOR ALL FIRE RATED ASSEMBLIES. ALL OPENINGS SHALL BE SEALED AND CLOSED IN APPROVED MANNER. PROVIDE SLEEVE WHERE NEEDED DUE TO SCOPE OF WORK.
- J. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING BID. NO EXTRAS WILL BE PAID DUE TO UNANTICIPATED EXISTING CONDITIONS.
- K. THE CONTRACTOR SHALL SCHEDULE AND EXECUTE ALL WORK WITH REGARD TO THE OWNER'S USE OF THE BUILDING.
- L. PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
  - a. REFER TO ARCHITECTURAL DRAWINGS FOR TYPICAL ROOM INTERIOR ELEVATIONS. COORDINATE EXACT DEVICE LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO ROUGH-IN.
  - b. COORDINATE ALL WIRING DEVICE LOCATIONS SHOWN AT MILLWORK LOCATIONS WITH THE MILLWORK CONTRACTOR AND GENERAL CONTRACTOR PRIOR TO ANY ROUGH-IN OR INSTALLATION. ALL WIRING DEVICES SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS AND SHALL NOT BE CONCEALED.
- M. PROVIDE PULL BOXES AS REQUIRED TO PROPERLY INSTALL THE RACEWAYS AND CIRCUITS INDICATED.
- N. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH ROT-PROOF PULL-TAPE, LABELED AT EACH END. ALL CONDUITS SHALL BE PROVIDED WITH PLASTIC BUSHINGS WHERE TERMINATED OPEN-ENDED.
- O. SEAL ALL PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES AS NECESSARY TO RESTORE FIRE-RESISTANCE RATING OF ASSEMBLY. REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR RATED ASSEMBLIES, FIRE STOPPING MATERIALS, AND REQUIREMENTS.
- P. EACH CONTRACTOR AND SUB-CONTRACTOR OR TRADE SHALL REVIEW THE BID DOCUMENTS AS A WHOLE, INCLUDING ALL OTHER TRADES' DRAWINGS AND PROVIDE ANY MISC. ITEMS, MATERIALS, WORK, ETC. REQUIRED TO COMPLETE THE WORK AS SHOWN ON ALL BID DOCUMENTS. THIS REQUIREMENT APPLIES TO ALL TRADES: STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, EQUIPMENT VENDORS, ETC. REQUIREMENTS AND RELATED WORK ARE INDICATED THROUGHOUT THE BID DOCUMENTS AND SHALL BE REVIEWED WITH THE SPECIFIC MEP, STRUCTURAL, ARCHITECTURAL AND EQUIPMENT DRAWINGS FOR OVERALL SCOPE OF WORK.
- Q. PROVIDE FINAL CONNECTION TO ALL EQUIPMENT, INCLUDING ANY CORDS AND PLUG SETS FOR EQUIPMENT NOT PROVIDED WITH IT (WHETHER SPECIFICALLY NOTED OR NOT). COORDINATE ALL WORK WITH THE EQUIPMENT SUPPLIER AND OWNER AND VERIFY ALL ROUGH-IN LOCATIONS AND REQUIREMENTS PRIOR TO ANY ROUGH-IN.
- R. PROVIDE A SEPARATE CODE SIZED GREEN EQUIPMENT GROUND CONDUCTOR IN ALL CONDUITS AND RACEWAYS CONTAINING LINE VOLTAGE CIRCUITS (100V OR HIGHER).
- S. NEUTRALS SHALL NOT BE SHARED FOR ANY CIRCUIT, UNLESS SPECIFICALLY NOTED ON PLANS.
- T. WIRE SIZE INDICATED BY BRANCH CIRCUIT AT HOMERUN SHALL BE CARRIED THROUGHOUT THE CIRCUIT TO FINAL CONNECTION AT EQUIPMENT. FINAL EXTENSION OF CIRCUIT TO EQUIPMENT MAY NOT BE SHOWN FOR CLARITY BUT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR FOR FINAL CONNECTION.
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hollis architects miller

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Structural # 200601333

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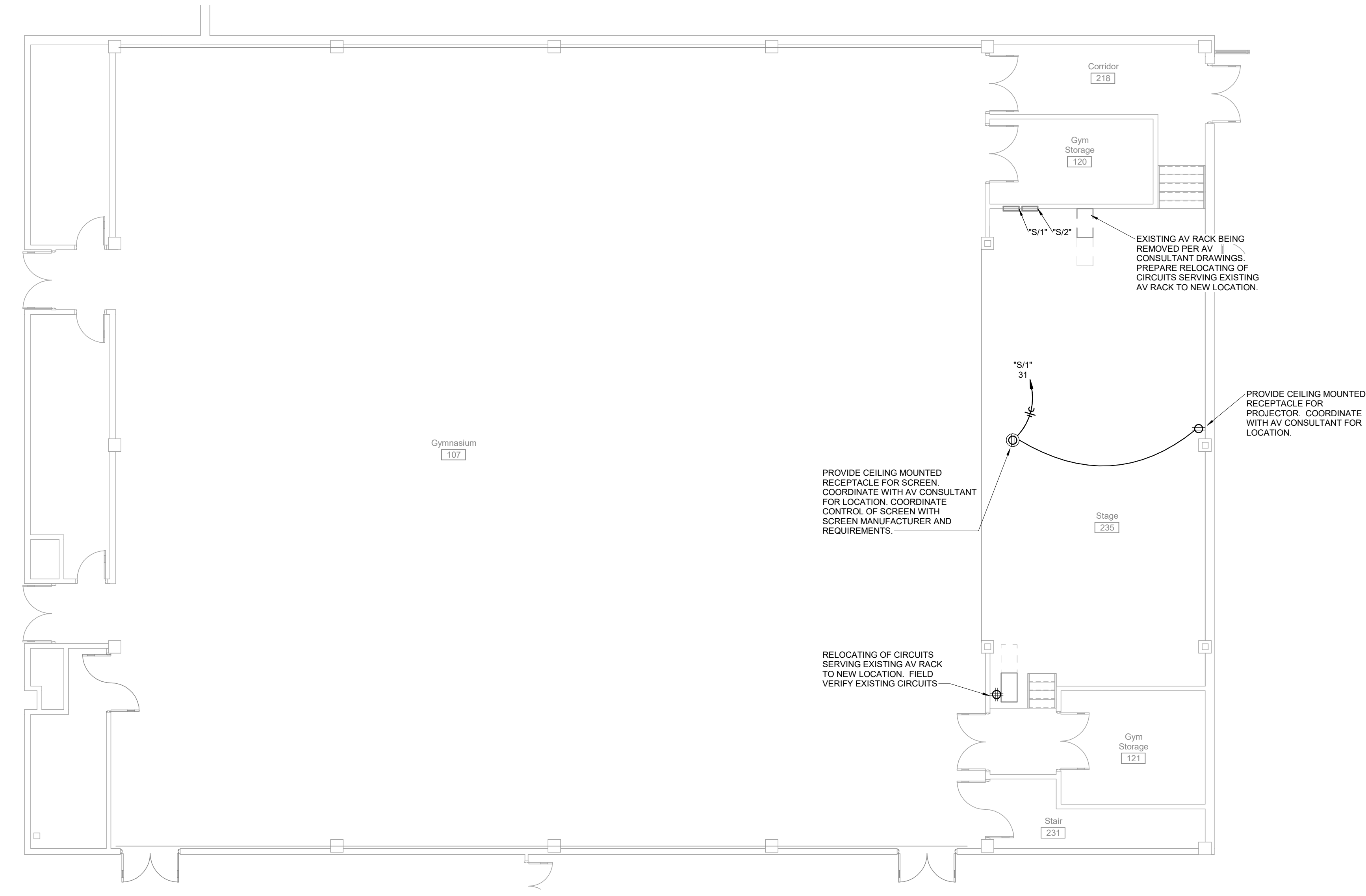
REVISIONS:

#	Description	Date

James Basquette  
Professional Engineer  
State of Missouri  
License No. E-29112  
Expires 12/31/24

JOB NO:  
DRAWN BY: KEH  
CHECKED BY: JRB  
DATE: 01/17/2023

**E101.M**



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



**1**  
E101.S  
**FIRST FLOOR POWER PLAN**  
SCALE: 1/8" = 1'-0"

**GENERAL NOTES:**

- A. THESE GENERAL NOTES APPLY TO ALL ELECTRICAL AND SPECIAL SYSTEMS DRAWINGS. REFER TO DIVISION 26, 27 AND 28 SPECIFICATIONS FOR ADDITIONAL ELECTRICAL AND SPECIAL SYSTEMS SPECIFICATIONS AND REQUIREMENTS.
- B. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE 2017 NATIONAL ELECTRIC CODE AS ADOPTED BY THE LOCAL A.U.C.
- C. CONTRACTOR SHALL SECURE AND PAY FOR NECESSARY MEP PERMITS AND CERTIFICATES OF INSPECTION REQUIRED BY GOVERNMENTAL ORDINANCES, LAWS, RULES, OR REGULATIONS.
- D. FINAL ACCEPTANCE OF WORK SHALL BE SUBJECT TO THE CONDITION THAT ALL SYSTEMS, EQUIPMENT, APPARATUS, AND APPLIANCES OPERATE SATISFACTORILY AS DESIGNED AND INTENDED. WORK SHALL INCLUDE REQUIRED REPAIR, REPLACEMENT, ADJUSTMENT OF SYSTEMS AND CONTROL EQUIPMENT AND ALL REQUIRED PROGRAMMING INSTALLED. PROVIDE FOR ALL WORK INDICATED ON DRAWINGS OR AS REASONABLY IMPLIED.
- E. TEST ALL LINES, SYSTEMS, EQUIPMENT BEFORE THEY ARE INSULATED, PAINTED, OR CONCEALED BY CONSTRUCTION OR BACKFILLING. PROVIDE FUEL, WATER, ELECTRICITY, MATERIALS, LABOR, AND EQUIPMENT REQUIRED FOR TESTS. REPAIR OR REPLACE DEFECTS, AND MATERIALS FAILURES REVEALED BY TESTS AND THEN RETESTED UNTIL SATISFACTORY. MAKE REPAIRS WITH NEW MATERIALS.
- F. PROVIDE NECESSARY MATERIALS AND ACCESSORIES FOR INSTALLATION OF FIXTURES, EQUIPMENT, ETC AS REQUIRED FOR COMPLETE AND FUNCTIONAL OPERATION AS NOTED ON DRAWINGS OR IN NOTES.
- G. ALL EQUIPMENT, FIXTURES, MATERIALS, ETC SHALL BE INSTALLED IN NEAT PROFESSIONAL MANNER IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
- H. THE CONTRACTOR SHALL CONTACT THE OWNER AND COORDINATE ALL OUTAGES 5 DAYS PRIOR TO ANY SHUT-OFF OF SERVICES.
- I. PROVIDE ALL FIRE RATED MATERIAL FOR PATCH AND REPAIR FOR ALL FIRE RATED ASSEMBLIES. ALL OPENINGS SHALL BE SEALED AND CLOSED IN APPROVED MANNER. PROVIDE SLEEVE WHERE NEEDED DUE TO SCOPE OF WORK.
- J. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING BID. NO EXTRAS WILL BE PAID DUE TO UNANTICIPATED EXISTING CONDITIONS.
- K. THE CONTRACTOR SHALL SCHEDULE AND EXECUTE ALL WORK WITH REGARD TO THE OWNER'S USE OF THE BUILDING.
- L. PLANS ARE DIAGNOSTIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
  - a. REFER TO ARCHITECTURAL DRAWINGS FOR TYPICAL ROOM INTERIOR ELEVATIONS. COORDINATE EXACT DEVICE LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO ROUGH-IN.
  - b. COORDINATE ALL WIRING DEVICE LOCATIONS SHOWN AT MILLWORK LOCATIONS WITH THE MILLWORK CONTRACTOR AND GENERAL CONTRACTOR PRIOR TO ANY ROUGH-IN OR INSTALLATION. ALL WIRING DEVICES SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS AND SHALL NOT BE CONCEALED.
- M. PROVIDE PULL BOXES AS REQUIRED TO PROPERLY INSTALL THE RACEWAYS AND CIRCUITS INDICATED.
- N. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH ROT-PROOF PULL-TAPE, LABELED AT EACH END. ALL CONDUITS SHALL BE PROVIDED WITH PLASTIC BUSHINGS WHERE TERMINATED OPEN-ENDED.
- O. SEAL ALL PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES AS NECESSARY TO RESTORE FIRE-RESISTANCE RATING OF ASSEMBLY. REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR RATED ASSEMBLIES, FIRE STOPPING MATERIALS, AND REQUIREMENTS.
- P. EACH CONTRACTOR AND SUB-CONTRACTOR OR TRADE SHALL REVIEW THE BID DOCUMENTS AS A WHOLE, INCLUDING ALL OTHER TRADES DRAWINGS AND PROVIDE ANY MISC. ITEMS, MATERIALS, WORK, ETC. REQUIRED TO COMPLETE THE WORK AS SHOWN ON ALL BID DOCUMENTS. THIS REQUIREMENT APPLIES TO ALL TRADES, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, EQUIPMENT VENDORS, ETC. REQUIREMENTS AND RELATED WORK ARE INDICATED THROUGHOUT THE BID DOCUMENTS AND SHALL BE REVIEWED WITH THE SPECIFIC MEP, STRUCTURAL, ARCHITECTURAL, AND EQUIPMENT DRAWINGS FOR OVERALL SCOPE OF WORK.
- Q. PROVIDE FINAL CONNECTION TO ALL EQUIPMENT, INCLUDING ANY CORD AND PLUG SETS FOR EQUIPMENT NOT PROVIDED WITH IT (WHETHER SPECIFICALLY NOTED OR NOT). COORDINATE ALL WORK WITH THE EQUIPMENT SUPPLIER AND OWNER, AND VERIFY ALL ROUGH-IN LOCATIONS AND REQUIREMENTS PRIOR TO ANY ROUGH-IN.
- R. PROVIDE A SEPARATE CODE SIZED GREEN EQUIPMENT GROUND CONDUCTOR IN ALL CONDUITS AND RACEWAYS CONTAINING LINE VOLTAGE CIRCUITS (120V OR HIGHER).
- S. NEUTRALS SHALL NOT BE SHARED FOR ANY CIRCUIT, UNLESS SPECIFICALLY NOTED ON PLANS.
- T. WIRE SIZE INDICATED BY BRANCH CIRCUIT AT HOMERUN SHALL BE CARRIED THROUGHOUT THE CIRCUIT TO FINAL CONNECTION AT EQUIPMENT. FINAL EXTENSION OF CIRCUIT TO EQUIPMENT MAY NOT BE SHOWN FOR CLARITY BUT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR FOR FINAL CONNECTION.
- U. SUPPORTS, CONDUIT, BOXES, ETC. INSTALLED IN AREAS WITH EXPOSED STRUCTURE SHALL BE PAINTED TO MATCH ADJACENT FINISHES.

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**Construction Documents**

**Raytown SD - Middle School AV Updates**

**Raytown Quality Schools**

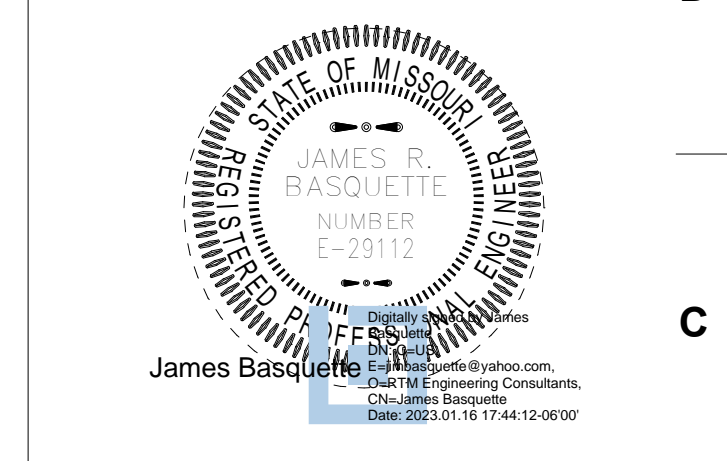
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**E101.S**

ONE-LINE DIAGRAM SYMBOL LEGEND

R	DA	DISTRIBUTION AMPLIFIER.
	STM	STEREO-TO-MONO AUDIO COMBINER.
Q	V <sub>p</sub>	LOUDSPEAKER VOLUME CONTROL (P=PRIORITY OVERRIDE RELAY)
	1	LOUDSPEAKER EACH WITH LOUDSPEAKER LINE MATCHING TRANSFORMER IF SHOWN, WITH CONNECTIONS AS NOTED. REFER TO PLANS FOR QUANTITIES. LOUDSPEAKER TYPE (X) INDICATED WITHIN SYMBOL. WHERE MULTIPLE POWER TAP VALUES ARE SHOWN FOR LINE MATCHING TRANSFORMERS IN A GIVEN LOUDSPEAKER CIRCUIT, REFER TO PLANS FOR SPECIFIC LOCATIONS.
P	PWR	POWER AMPLIFIER, TYPE AND DETAILS AS INDICATED ON THE DRAWINGS.
	600/600	AUDIO LINE MATCHING OR BRIDGING TRANSFORMER WITH RATED IMPEDANCE AS NOTED.
N		SCREW TERMINAL ON BARRIER STRIP. INSTALLED IN TERMINATION CABINETS UNLESS NOTED OTHERWISE.
	G	LOW VOLTAGE LIGHT EMITTING DIODE, COLOR AS INDICATED BY LETTER: G = GREEN Y = YELLOW R = RED
M		LOOSE CABLE, LENGTH AS INDICATED.
		FEMALE XLR RECEPTACLE OR CABLE CONNECTOR; 3 PINS UNLESS SUBSCRIPT INDICATES OTHERWISE.
		MALE XLR RECEPTACLE OR CABLE CONNECTOR; 3 PINS UNLESS SUBSCRIPT INDICATES OTHERWISE.
L	1/8"	PHONE JACK, SIZE AS INDICATED ON THE DRAWINGS.
	1/4"	PHONE PLUG, SIZE AS INDICATED ON THE DRAWINGS.
		RCA PHONO JACK.
		RCA PHONO PLUG.
K		BNC JACK.
		BNC PLUG.
J		FEMALE HD-15 CONNECTOR.
		FEMALE HDMI CONNECTOR.
H		MALE HD-15 CONNECTOR.
		MALE HDMI CONNECTOR.
G		FEMALE SPEAKON CONNECTOR.
		MALE SPEAKON CONNECTOR.
F		FEMALE RJ45 CONNECTOR.
		MALE RJ45 CONNECTOR.
E		FEMALE ETHERCON CONNECTOR.
		MALE ETHERCON CONNECTOR.
		FEMALE USB CONNECTOR.
		MALE USB CONNECTOR.
D		RJ45 PATCH PANEL CONNECTION.
		AC POWER CORD.
		ANTENNA.
C		CONTINUATION OF EQUIPMENT OR LOUDSPEAKER CIRCUITS. REFER TO DRAWINGS FOR QUANTITIES.
		CONNECTION DESIGNATOR.
		CIRCUIT CONTINUED ON DIFFERENT SHEET OR AT OTHER DIAGRAM LOCATION.
B		SHEET NUMBER WHERE CIRCUIT IS CONTINUED.
A	"LABELS"	SLANTED TEXT IN QUOTES INDICATES EQUIPMENT LABELS.

ONE-LINE DIAGRAM WIRE LEGEND

XXX	WIRES FOR AUDIO, VIDEO, OR RADIO FREQUENCY SIGNALS OVER COPPER CABLING. CABLE OR SIGNAL TYPE AS INDICATED.
XXX	WIRES FOR NETWORK OR CONTROL SIGNALS OVER COPPER CABLING. CABLE OR SIGNAL TYPE AS INDICATED.
XXX	WIRES FOR SIGNALS OVER FIBER CABLES. CABLE OR SIGNAL TYPE AS INDICATED.

CONDUIT, BOXES, AND ENCLOSURES GENERAL NOTES

- THE CONDUIT SYSTEM AND ALL BOXES AND ENCLOSURES INDICATED ON THESE DRAWINGS SHALL BE FURNISHED AND INSTALL UNDER THE DIVISION 26 SPECIFICATIONS.
- ALL CIRCUITS SHALL BE INSTALLED WITHIN CONDUIT, UNLESS NOTED OTHERWISE. CONTRACTOR SHALL INSTALL CONDUIT AS SHOWN, WITH JUNCTION BOXES, FITTINGS, ETC. AS REQUIRED BETWEEN TERMINATION LOCATIONS.
- VERIFY LOCATIONS AND TYPES OF ALL EXISTING CONDUIT AND BOXES (IF ANY) PRIOR TO STARTING WORK.
- COORDINATE ALL WORK WITH ARCHITECTURAL, ELECTRICAL, AND TECHNOLOGY PLANS.
- CONDUIT SHALL BE MINIMUM 0.75-INCH DIAMETER. MEASURED PULL STRING SHALL BE FURNISHED, INSTALLED, AND SECURED IN ALL CONDUIT RACEWAYS.
- CONDUIT FOR MICROPHONE LEVEL CIRCUITS (M) SHALL BE CONSTRUCTED OF FERROUS METAL (EMT OR RIGID).
- CONDUIT SHALL NOT EXCEED 100 LINEAR FEET OR THE EQUIVALENT OF THREE 90 DEGREE BENDS BETWEEN JUNCTION BOXES.
- CONTRACTOR INSTALLING CONDUIT SYSTEM SHALL FURNISH AND INSTALL BLANK COVERS ON ALL BOXES INSTALLED BUT NOT USED FOR SYSTEM CONNECTIONS.
- CONDUIT ROUTING AND LOCATION OF CONNECTION BOXES SHALL BE PER ELECTRICAL SPECIFICATIONS.
- SYSTEM AC POWER CIRCUITS SHALL BE TWO WIRE (EACH WITH ITS OWN NEUTRAL CONDUCTOR) AND SHALL BE ROUTED TO EQUIPMENT RACKS AS REQUIRED.
- ALL CONDUIT INFRASTRUCTURE SHOWN ON THESE DRAWINGS IS TO BE PART OF THE BASE BID.
- REFER TO AV DRAWINGS FOR AV EQUIPMENT PLANS AND DETAILS.
- ALL DIMENSIONAL NOTES ARE EXPRESSED BY H (HEIGHT), W (WIDTH), AND D (DEPTH), IN INCHES.
- MOUNT WALL BOXES AT 18" AFF TO MATCH ELECTRICAL WALL MOUNTED BOXES, UNLESS OTHERWISE NOTED.
- BOXES INDICATED TO BE WALL MOUNTED AT 48" AFF SHALL BE MOUNTED TO MATCH OTHER ELECTRICAL SWITCHES AND CONTROL PLATES.
- PRIMARY FUNCTION IS NOTED FOR EACH BOX. BOXES MAY HAVE MULTIPLE SUB-FUNCTIONS.
- ALL MOUNTING HEIGHTS ARE TO THE CENTER OF THE BOX.
- CONTRACTOR SHALL INDICATE ALL CONDUIT INSTALLATION, INCLUDING INSTALLED LOCATION OF JUNCTION BOXES ON SHOP DRAWINGS AND AS-BUILT DRAWINGS SUBMITTED FOR REVIEW.

CONDUIT LEGEND

SYMBOL	DESCRIPTION	TYPE/ FUNCTIONS
EXPOSED CONDUIT.		
CONDUIT CONCEALED IN WALL, CEILING, OR FLOOR.		
CABLE CONCEALED IN WALL, CEILING, OR FLOOR. USE PLENUM-RATED CABLING WHERE INSTALLED IN RETURN-AIR PLENUMS.		
CONDUIT STUBBED OUT ABOVE ACCESSIBLE PORTION OF CEILING OR OPEN CEILING AREA. NEATLY TERMINATE CONDUIT WITH INSULATED BUSHING. WHERE STUB PENETRATES A NOISE CONTROL WALL OR PLENUM BARRIER, ELECTRICAL CONTRACTOR SHALL SEAL AROUND CONDUIT AT PENETRATION AND SYSTEMS CONTRACTOR SHALL SEAL OPEN END OF CONDUIT WITH DUX SEAL OR EQUIVALENT COMPLIANT SEALANT AFTER INSTALLATION OF CABLE.		
CONDUIT STUBBED OUT ABOVE CABLE TRAY IN ACCESS FLOOR. TERMINATE CONDUIT WITH INSULATED BUSHING. WHERE STUB PENETRATES A NOISE CONTROL WALL OR PLENUM BARRIER, ELECTRICAL CONTRACTOR SHALL SEAL AROUND CONDUIT AT PENETRATION AND SYSTEMS CONTRACTOR SHALL SEAL OPEN END OF CONDUIT WITH DUX SEAL OR EQUIVALENT COMPLIANT SEALANT AFTER INSTALLATION OF CABLE.		
CONDUIT LANDED TO EQUIPMENT RACK. INSULATE EQUIPMENT RACK FROM METALLIC CONDUIT USING A PLASTIC BUSHING OR CONNECTOR.		
CABLE TRAY, SIZE AND TYPE AS NOTED ON THE DRAWINGS.		
STANDARD GANG WALL BOX, MINIMUM 2-1/8" INCHES DEEP. FLUSH MOUNTED UNLESS OTHERWISE INDICATED. FOR SINGLE/DOUBLE GANG, INSTALL 4-INCH SQUARE BOX WITH APPROPRIATE DEVICE COVER TO PROVIDE REQUIRED OPENINGS AND WITH DEPTH TO MATCH WALL FINISH THICKNESS. SURFACE MOUNTED GANG BOXES TO BE INTENDED FOR SURFACE MOUNTING. SIZED TO MATCH GANG COVER PLATE SIZES SO THAT CONNECTION PLATE EDGES DO NOT OVERHANG BOX SIDES. FLUSH-STYLE BOXES INSTALLED IN SURFACE MOUNTED CONDITIONS ARE NOT ALLOWED.		
WALL BOX, 8" H x 8" W x 4" D, OR SIZE AND TYPE AS INDICATED ON THE DRAWINGS. FLUSH MOUNTED UNLESS OTHERWISE INDICATED.		
STANDARD GANG CEILING BOX, MINIMUM 2-1/8" INCHES DEEP. FLUSH MOUNTED UNLESS OTHERWISE INDICATED. FOR SINGLE/DOUBLE GANG, INSTALL 4-INCH SQUARE BOX WITH APPROPRIATE DEVICE COVER TO PROVIDE REQUIRED OPENINGS AND WITH DEPTH TO MATCH CEILING FINISH THICKNESS.		
LARGE CEILING BOX, 8" x 8" x 4" UNLESS OTHERWISE INDICATED. SURFACE MOUNTED UNLESS OTHERWISE INDICATED.		
CONDUIT BODY. PROVIDE BLANK COVER WITH CABLE PASS THROUGH GROMMET AS NEEDED.		

AV EQUIPMENT GENERAL NOTES

- ALL AV EQUIPMENT SHOWN ON THE DRAWINGS IS TO BE PART OF THE BASE BID, UNLESS SPECIFICALLY NOTED AS PART OF AN ALTERNATE.
- THIS FACILITY IS AN EXISTING STRUCTURE. COORDINATE MOUNTING CONDITIONS WITH OTHER TRADES.
- COORDINATE ALL WORK WITH ARCHITECTURAL AND ELECTRICAL DRAWINGS.
- ALL DIMENSIONAL NOTES ARE EXPRESSED BY H (HEIGHT), W (WIDTH), AND D (DEPTH), IN INCHES.
- MOUNTING HEIGHTS SHOWN ARE TO THE BOTTOM EDGE OF THE EQUIPMENT.

AV EQUIPMENT LEGEND

SYMBOL	DESCRIPTION
LS CCT XXX	LOUDSPEAKER CIRCUIT, OR PORTION THEREOF, WITH CIRCUIT IDENTIFIER SHOWN. SEE ONE-LINE DIAGRAM FOR CONNECTION DETAILS.
XX" W X XX" H	MOTORIZED PROJECTION SCREEN. FLUSH MOUNTED IN CEILING.
	VIDEO PROJECTOR, TYPE AS INDICATED ON THE DRAWINGS.
	HANGING MICROPHONE, SUSPENDED FROM CEILING.
	WIRELESS HEARING ASSISTANCE SYSTEM ANTENNA.
	WIRELESS MICROPHONE ANTENNA.

ABBREVIATIONS

AC	AC POWER.
ACP	ACOUSTICAL CEILING PANEL.
ACT	ACOUSTICAL CEILING TILE.
APC	ABOVE FINISHED CEILING. INDICATES DIMENSION ABOVE CEILING PANEL.
APF	ABOVE FINISHED FLOOR. INDICATES DIMENSION ABOVE FLOOR SURFACE.
AFILS	AUDIO FREQUENCY INDUCTION LOOP SYSTEM.
AP	ACCESS POINT.
AV	AUDIO-VISUAL.
B	BLANK COVER FOR FUTURE USE.
BP	BLANK PANEL.
C	CONDUIT, DIAMETER EXPRESSED IN INCHES.
DAN	DIGITAL AUDIO NETWORK.
FACP	FIRE ALARM CONTROL PANEL.
FO	FIBER OPTIC.
FP	FLAT PANEL.
HAS	HEARING ASSISTANCE SYSTEM.
GWB	GYPSON WALL BOARD.
MCP	METAL CEILING PANEL.
MM	MULTI-MODE (FIBER).
NS	AMBIENT NOISE SENSOR.
PA	PUBLIC ADDRESS SYSTEM/PAGING.
PACS	PAGING ANNOUNCEMENT CONTROL SYSTEM.
PB	PULLBOX.
RF	RADIO FREQUENCY.
SM	SINGLE-MODE (FIBER).
STP	SHIELDED TWISTED PAIR.
TBD	TO BE DETERMINED. CONTRACTOR TO FIELD VERIFY.
TC	TERMINATION CABINET.
TELCO	TELEPHONE UTILITY COMPANY.
TP	TOUCHPANEL.
TV	TELEVISION.
UTP	UNSHIELDED TWISTED PAIR.
VP	VENT PANEL.
VPD	VISUAL PAGING DISPLAY.
XFMR	TRANSFORMER.

NOTATIONAL SYMBOLS

X	REVISION NUMBER. UPWARD TRIANGLE. REFER TO REVISION LIST ON SHEET WHERE REFERENCE OCCURS FOR REVISION DATE.
X	SHEET KEY NOTE. HEXAGON. REFER TO SPECIFIC NOTES ON SHEET WHERE REFERENCE OCCURS.

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**CONSTRUCTION DOCUMENTS**

**Raytown SD - Middle School AV Updates**

**Raytown Quality Schools**

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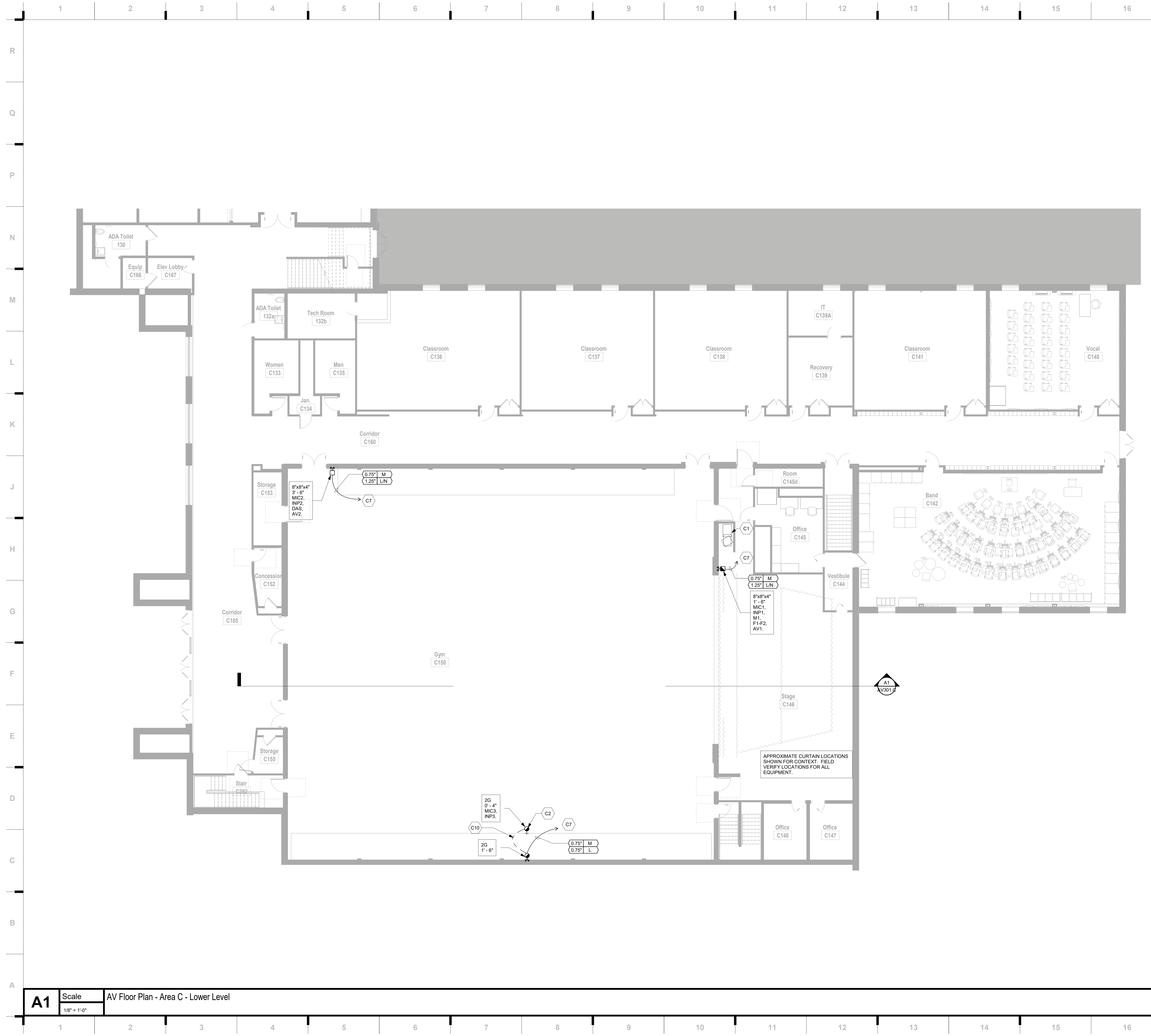
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JOB NO: 22193  
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CHECKED BY: JMH  
DATE: 01.17.2023

AV001





**SHEET KEYNOTE LEGEND**

- C1 FLOOR MOUNTED PULL-OUT EQUIPMENT RACK, REFER TO DETAIL A14/AV601.C.
- C2 CONNECTION PANEL MOUNTED TO FACE OF BLEACHERS.
- C3 TWO-WAY LOUDSPEAKER, MOUNTED FROM CEILING/ROOF STRUCTURE ABOVE.
- C4 VIDEO PROJECTOR MOUNTED FROM STRUCTURE ABOVE.
- C5 MOTORIZED REAR PROJECTION SCREEN, 220" NOMINAL DIAGONAL SIZE, 16:9 ASPECT RATIO, MOUNTED IN GAP BETWEEN PROSCENIUM SOFFIT AND VALANCE CURTAIN, SEE REFERENCE IMAGE ON AV121.C.
- C6 WIRELESS MICROPHONE ANTENNA MOUNTED TO CEILING WITHIN NON-METALLIC ENCLOSURE, STAHLIN CLASSIC SERIES, INTEGRA ENCLOSURES, OR EQUIVALENT.
- C7 CONDUIT, SIZE AND FUNCTION AS INDICATED, TO EQUIPMENT RACK ON STAGE.
- C8 HANGING MICROPHONE, SUSPENDED FROM SINGLE GANG BOX ATTACHED TO STRUCTURE ABOVE, TYPICAL.
- C9 HAS ANTENNA, MOUNTED TO CEILING WITHIN NON-METALLIC BOX PROVIDED FOR WIRELESS MICROPHONE ANTENNA. CABLES FASTENED FROM UNDERSIDE OF BLEACHERS FROM WALL BOX TO CONNECTION PANEL AT FRONT OF BLEACHERS. SECURELY FASTEN CABLES AND PROVIDE STRAIN RELIEF TO PREVENT DAMAGE.
- C10

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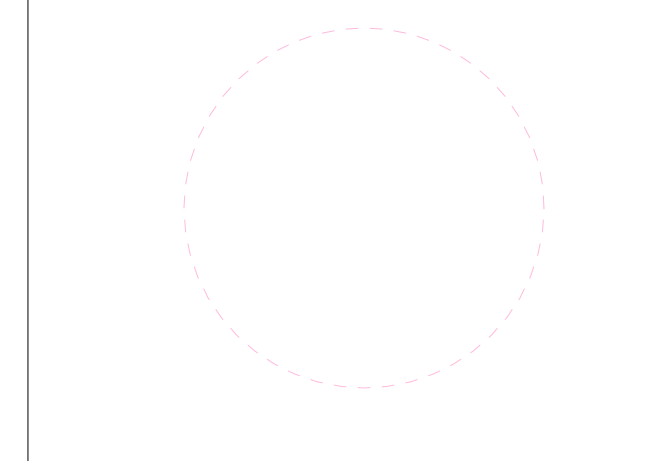
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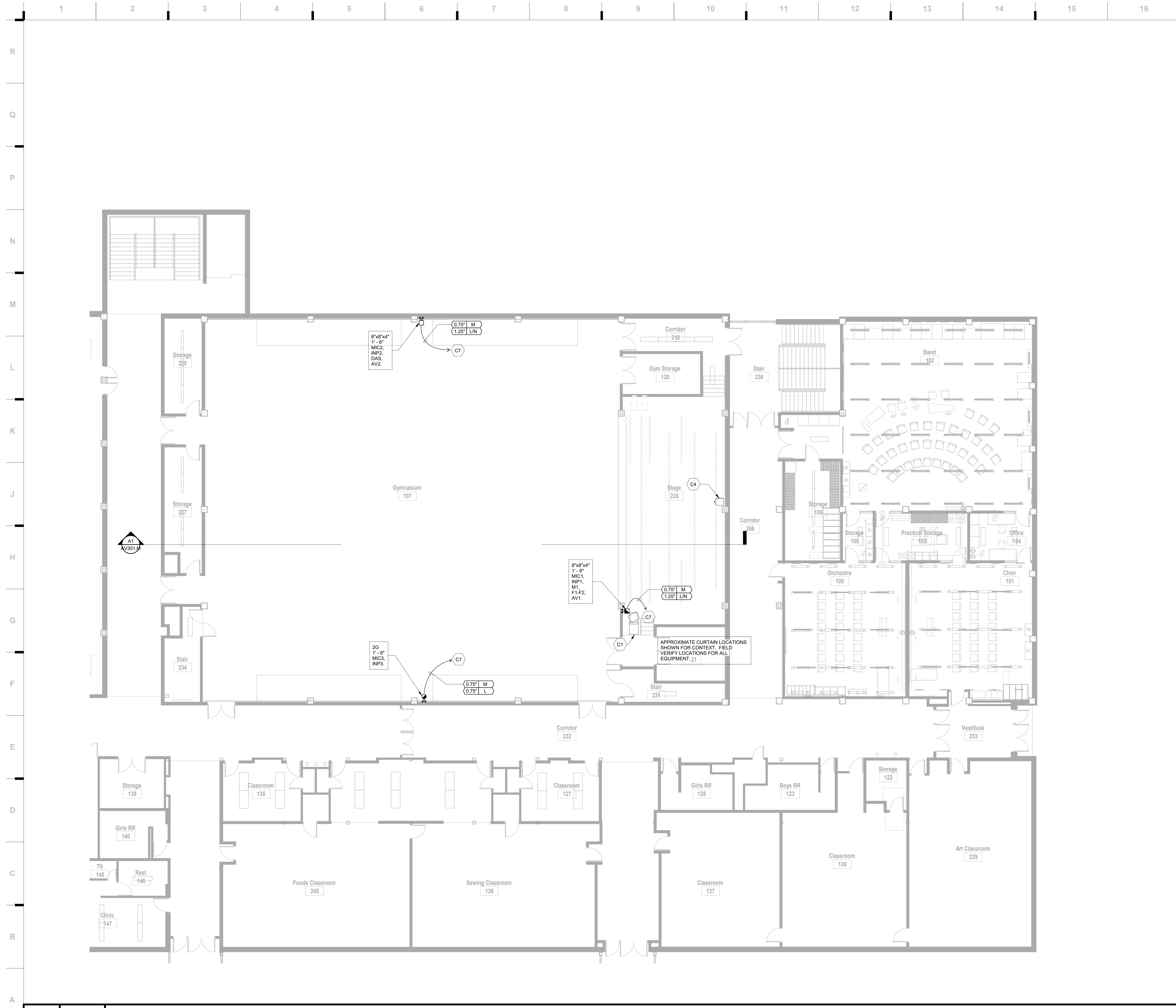
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CONSTRUCTION DOCUMENTS

1/17/2023 11:44:40 AM

**A1** Scale AV Floor Plan - Area C - Lower Level  
 1/8" = 1'-0"



### SHEET KEYNOTE LEGEND

- C1 FLOOR MOUNTED PULL-OUT EQUIPMENT RACK, REFER TO DETAIL A13/AV101.M
- C3 TWO-WAY LOUDSPEAKER, MOUNTED FROM CEILING/ROOF STRUCTURE ABOVE
- C4 VIDEO PROJECTOR MOUNTED FROM REAR WALL
- C5 MOTORIZED REAR PROJECTION SCREEN, 220" NOMINAL DIAGONAL SIZE, 16:9 ASPECT RATIO, MOUNTED BETWEEN GRAND VALANCE AND ADJACENT VALANCE CURTAIN. SEE REFERENCE IMAGE ON AV121.M
- C6 WIRELESS MICROPHONE ANTENNA MOUNTED TO CEILING WITHIN NON-METALLIC ENCLOSURE. STAHLIN CLASSIC SERIES, INTEGRA ENCLOSURES, OR EQUIVALENT.
- C7 CONDUIT, SIZE AND FUNCTION AS INDICATED, TO EQUIPMENT RACK ON STAGE
- C9 HAS ANTENNA, MOUNTED TO CEILING WITHIN NON-METALLIC BOX PROVIDED FOR WIRELESS MICROPHONE ANTENNA.

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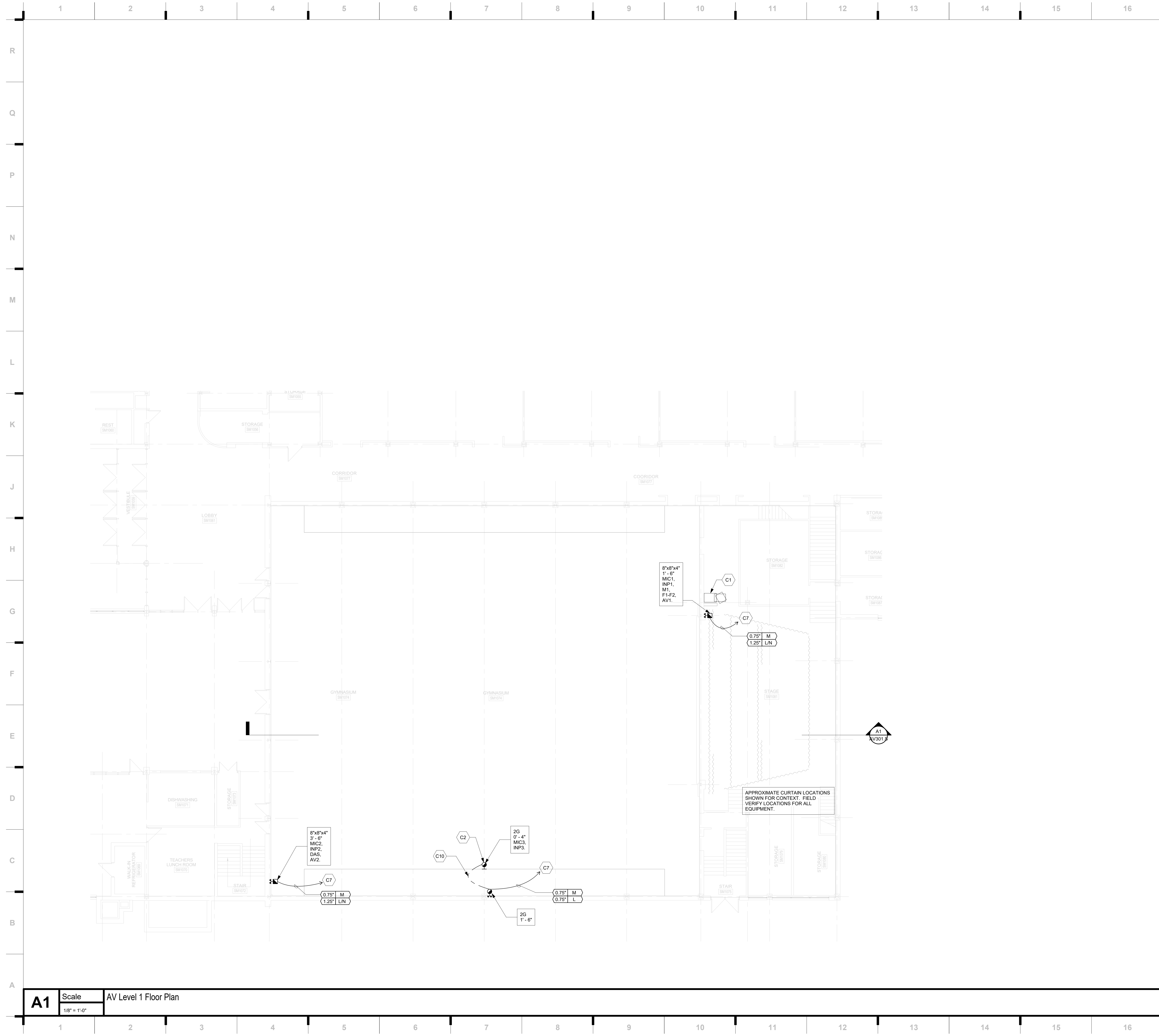
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**A1** Scale AV Level 1 - Area B  
1/8" = 1'-0"



**SHEET KEYNOTE LEGEND**

- C1 FLOOR MOUNTED PULL-OUT EQUIPMENT RACK, REFER TO DETAIL A12/AV601.S.
- C2 CONNECTION PANEL MOUNTED TO FACE OF BLEACHERS.
- C3 TWO-WAY LOUDSPEAKER, MOUNTED FROM CEILING/ROOF STRUCTURE ABOVE.
- C4 VIDEO PROJECTOR MOUNTED FROM STRUCTURE ABOVE.
- C5 MOTORIZED REAR PROJECTION SCREEN, 220" NOMINAL DIAGONAL SIZE, 16:9 ASPECT RATIO, MOUNTED IN GAP BETWEEN PROSCENIUM SOFFIT AND VALANCE CURTAIN, SEE REFERENCE IMAGE ON AV121.S.
- C6 WIRELESS MICROPHONE ANTENNA MOUNTED TO CEILING WITHIN NON-METALLIC ENCLOSURE, STAHLIN CLASSIC SERIES, INTEGRA ENCLOSURES, OR EQUIVALENT.
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- C8 HANGING MICROPHONE, SUSPENDED FROM SINGLE GANG BOX ATTACHED TO STRUCTURE ABOVE, TYPICAL.
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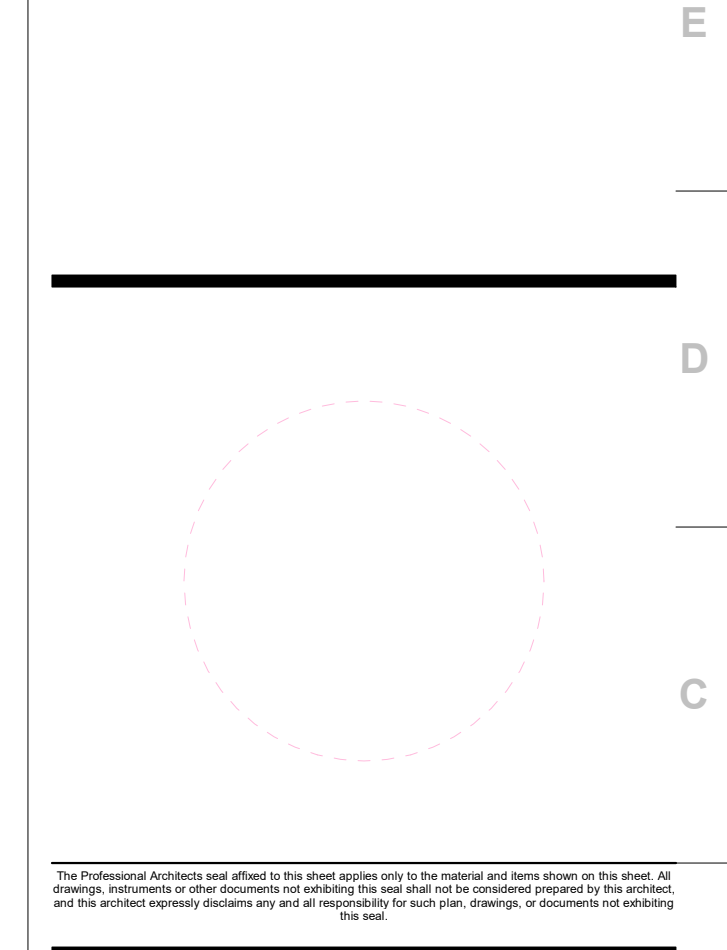
**CONSTRUCTION DOCUMENTS**

**Raytown SD - Middle School AV Updates**

**Raytown Quality Schools**  
 CENTRAL MIDDLE SCHOOL  
 10801 E. 38th Street  
 Raytown, MO 64133  
 RAYTOWN SOUTH MIDDLE SCHOOL  
 4800 Pittman Rd  
 Kansas City, MO 64133

REVISIONS:

#	Description	Date



JOB NO: 22193  
 DRAWN BY: AJV  
 CHECKED BY: JMH  
 DATE: 01.17.2023

**AV101.S**

**A1** Scale AV Level 1 Floor Plan  
 1/8" = 1'-0"

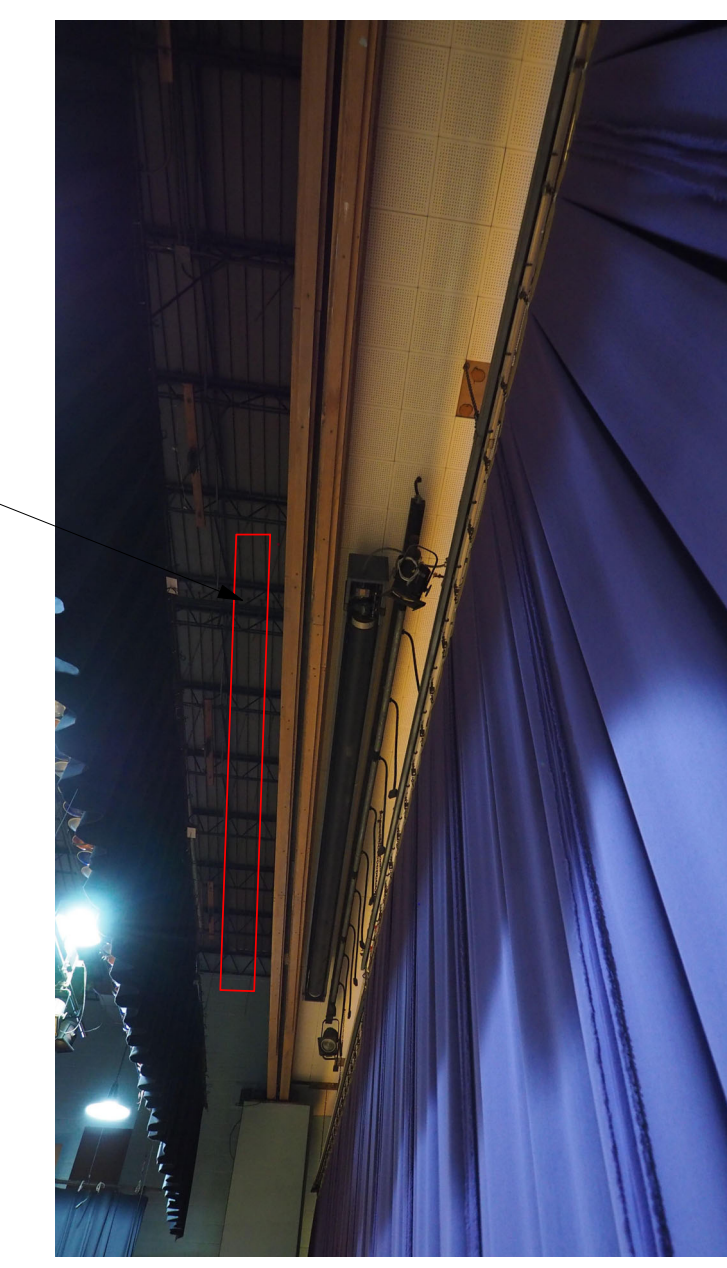
### LOUDSPEAKER ORIENTATION SCHEDULE

LOUDSPEAKER DESIGNATOR	COVERAGE PATTERN HOR. X VERT (NOMINAL)	ROLL ROTATION (DEGREES)	HORIZONTAL ROTATION (DEGREES)	VERTICAL TILT-DOWN (DEGREES)
C1 L	90 x 60	0	5 R	25
C1 R	90 x 60	0	5 L	25
C2 L	90 x 60	0	50 R	35
C2 R	90 x 60	0	50 L	35
SAT1	90 x 60	0	0	35
SAT2 L	90 x 60	0	30 R	35
SAT2 R	90 x 60	0	30 L	35

**TO ORIENT LOUDSPEAKERS**

- VIEW ALL LOUDSPEAKERS FROM THE REAR.
- ROLL LOUDSPEAKER TO SCHEDULED ANGLE CLOCKWISE (CW) OR COUNTERCLOCKWISE (CCW).
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MOUNT NEW MOTORIZED PROJECTION SCREEN WITHIN GAP BETWEEN PROSCENIUM STRUCTURE AND ADJACENT VALANCE CURTAIN.



### SHEET KEYNOTE LEGEND

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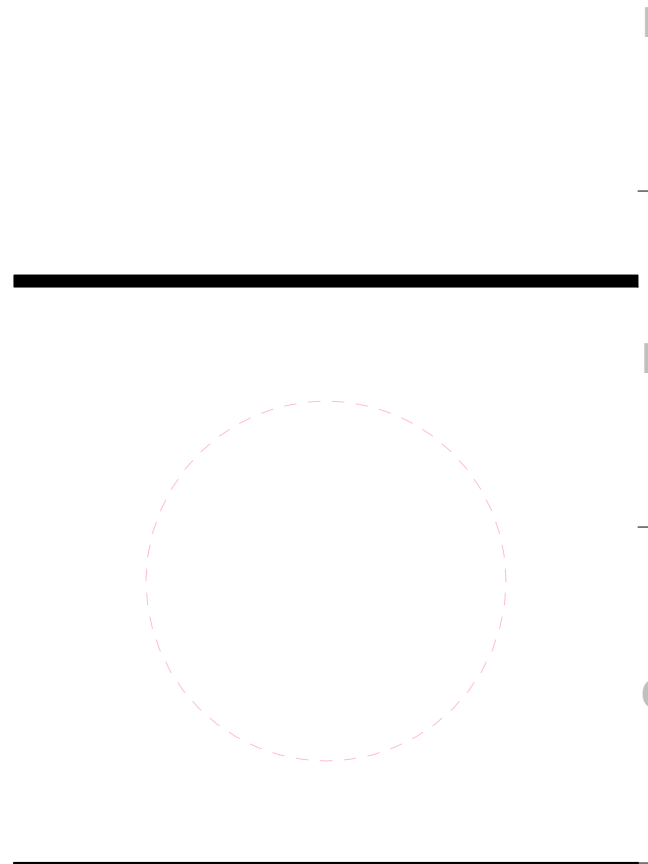
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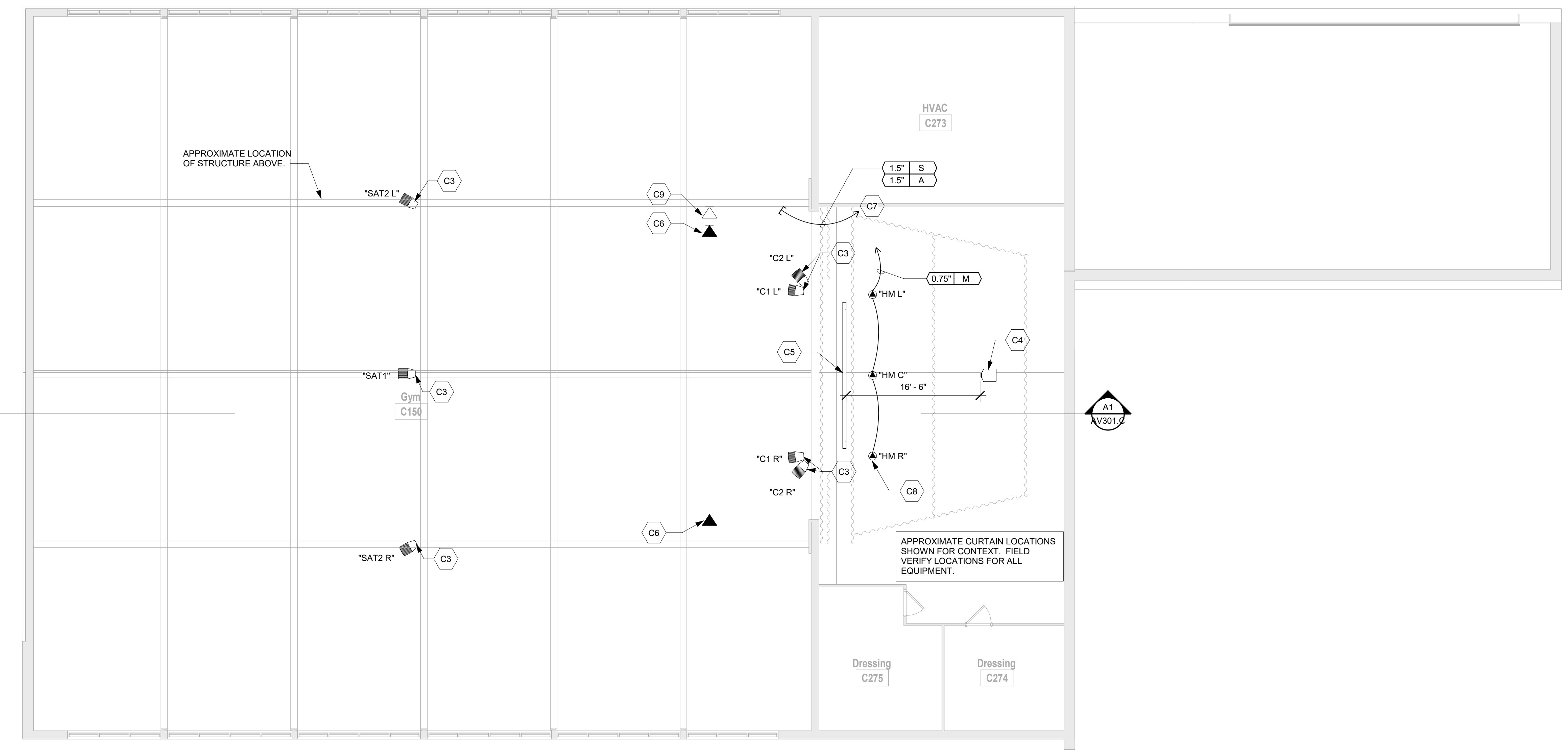
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JOB NO: 22193  
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# AV121.C



**A1** Scale AV Reflected Ceiling Plan - Area C - Upper Level  
 1/8" = 1'-0"

CONSTRUCTION DOCUMENTS

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### LOUDSPEAKER ORIENTATION SCHEDULE

LOUDSPEAKER DESIGNATOR	COVERAGE PATTERN (HOR. X VERT. (NOMINAL))	ROLL ROTATION (DEGREES)	HORIZONTAL ROTATION (DEGREES)	VERTICAL TILT-DOWN (DEGREES)
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MOUNT NEW MOTORIZED PROJECTION SCREEN BETWEEN GRAND VALANCE CURTAIN AND ADJACENT VALANCE CURTAIN. ENSURE THAT SCREEN CASE DOES NOT INTERFERE WITH MAIN TRAVELER CURTAIN OPERATION.



### SHEET KEYNOTE LEGEND

- C1 FLOOR MOUNTED PULL-OUT EQUIPMENT RACK. REFER TO DETAIL A13/AV1601.M.
- C2 TWO-WAY LOUDSPEAKER, MOUNTED FROM CEILING/ROOF STRUCTURE ABOVE.
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# AV121.M

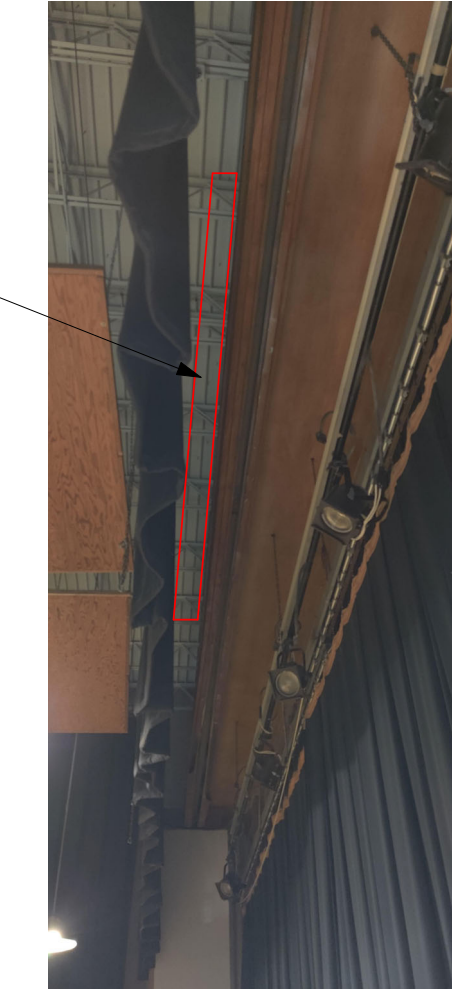
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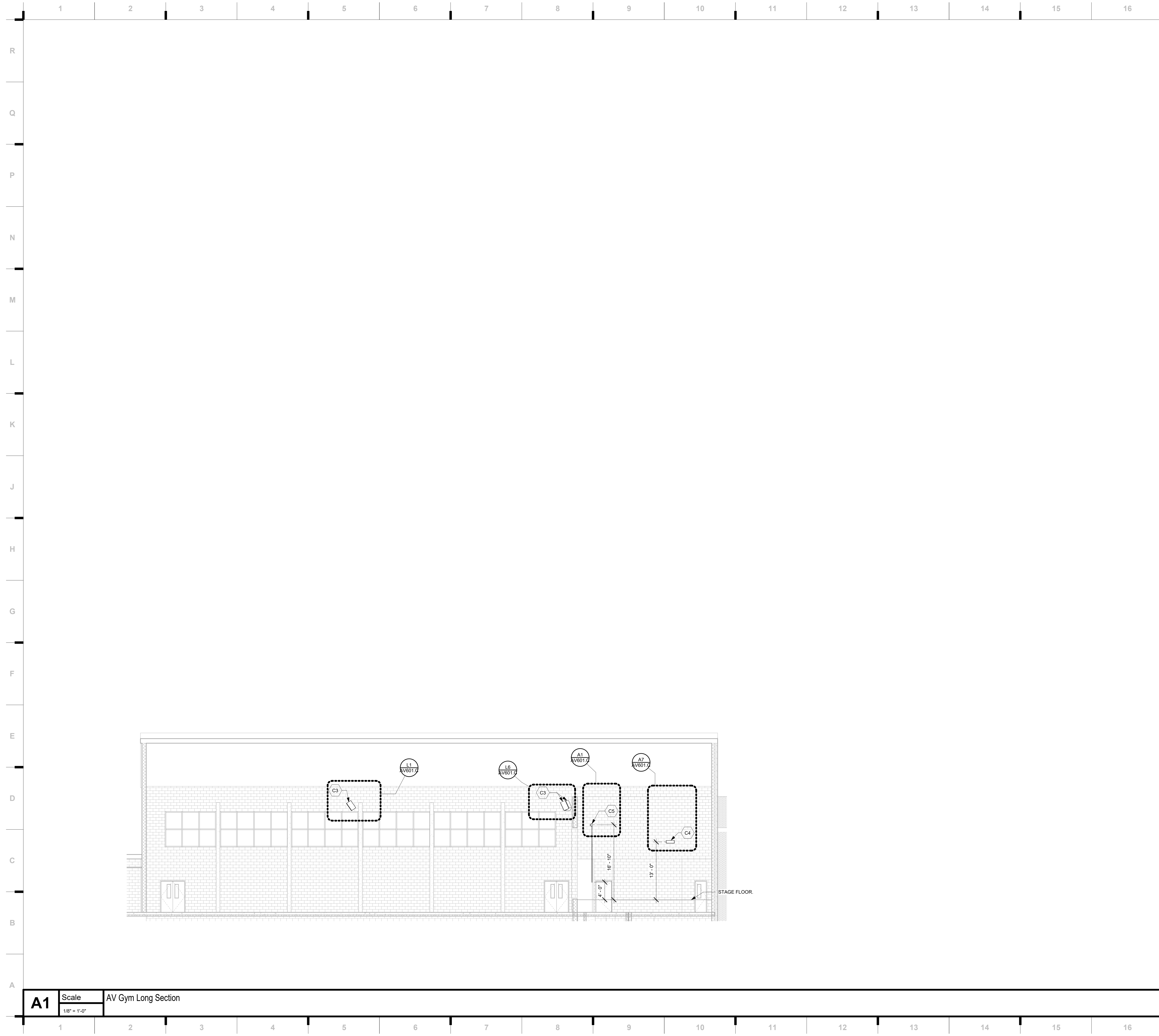
# AV121.S

AV CEILING PLAN

**A1** Scale AV Level 1 Ceiling Plan  
1/8" = 1'-0"

1/17/2023 12:05:50 PM

Please consider the environment before printing this.



**SHEET KEYNOTE LEGEND**

- C1 FLOOR MOUNTED PULL-OUT EQUIPMENT RACK, REFER TO DETAIL A14/AV601.C.
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**Raytown SD - Middle School AV Updates**

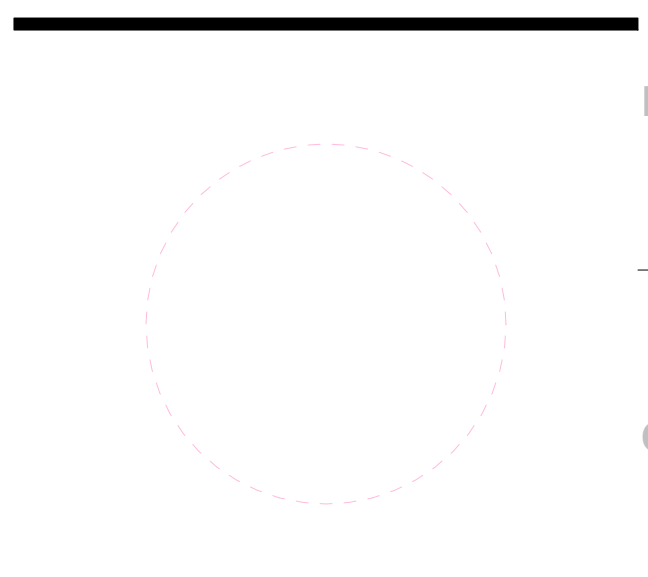
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RAYTOWN SOUTH MIDDLE SCHOOL  
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**REVISIONS:**

#	Description	Date



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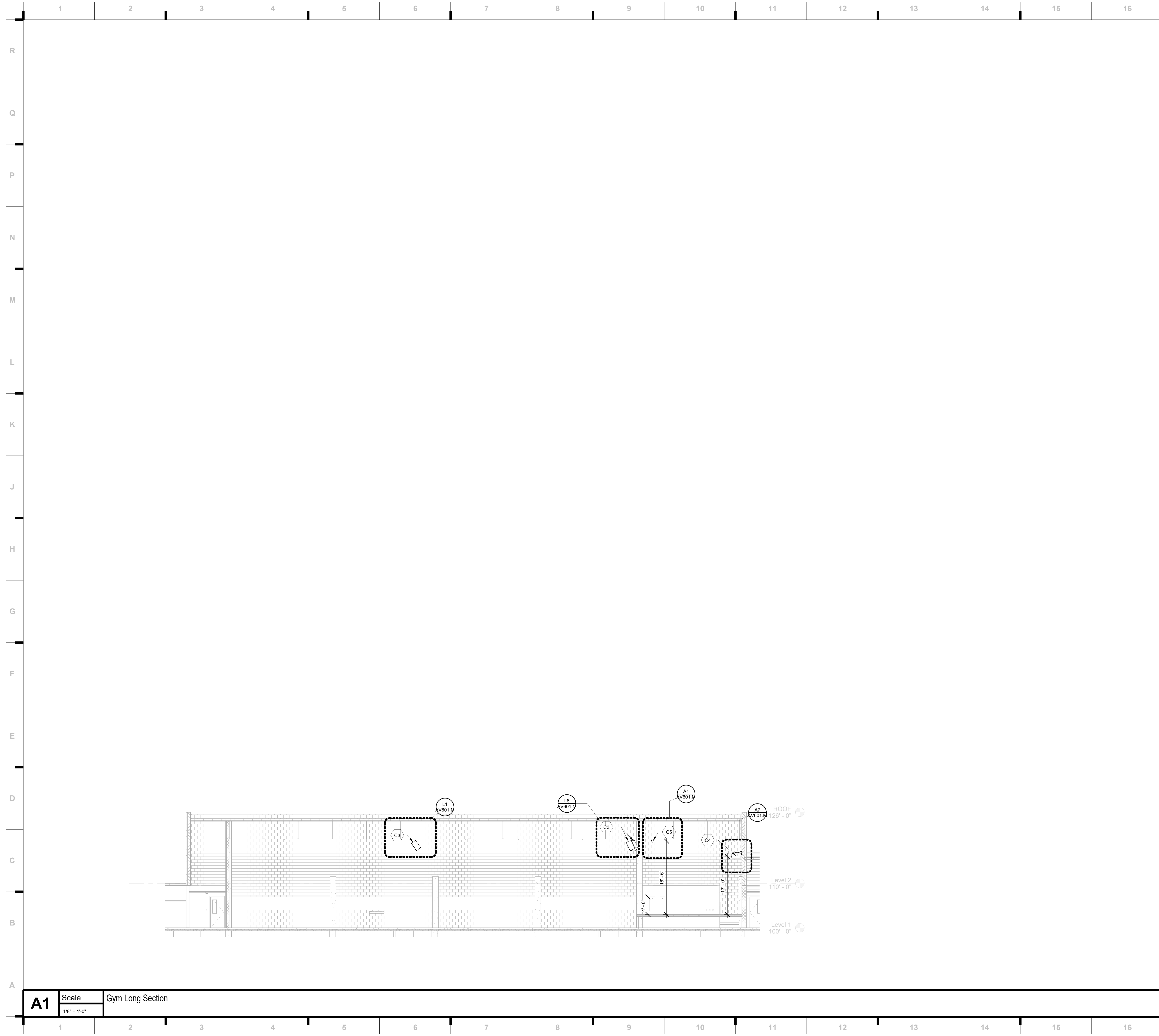
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**AV301.C**

AV SECTIONS

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CONSTRUCTION DOCUMENTS



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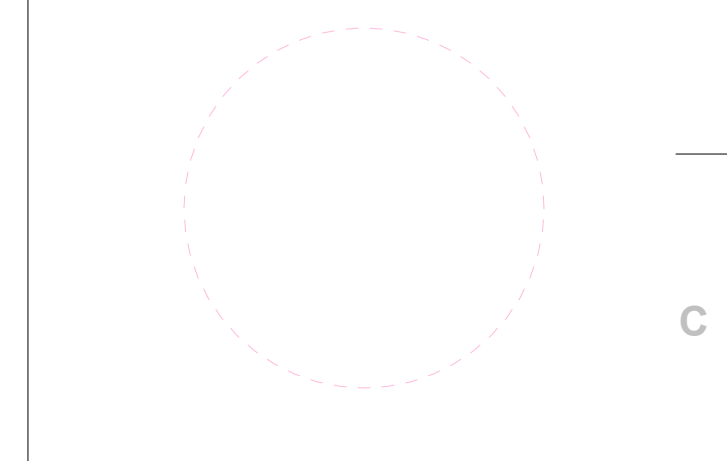
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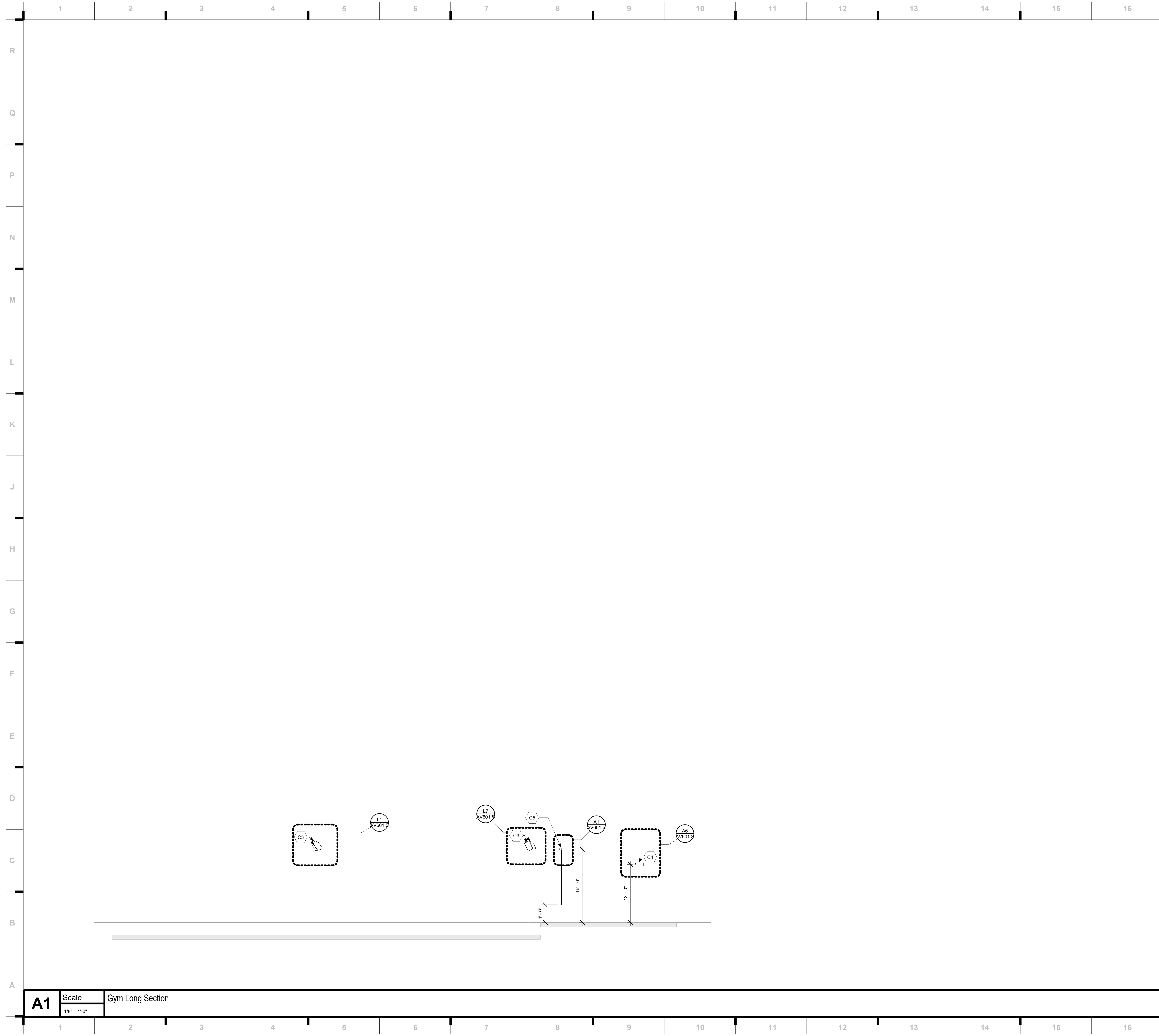
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**AV301.M**





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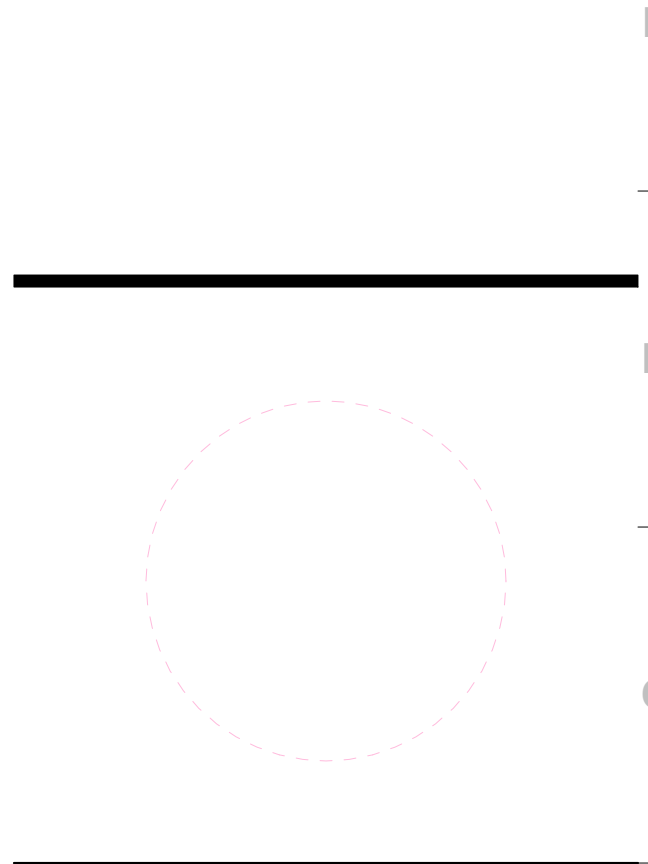
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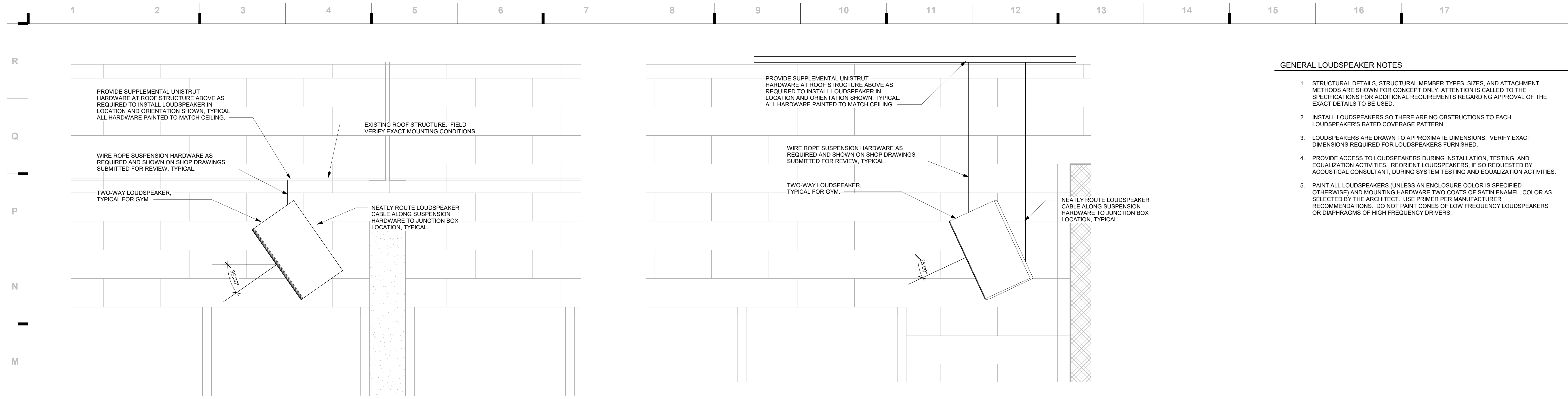


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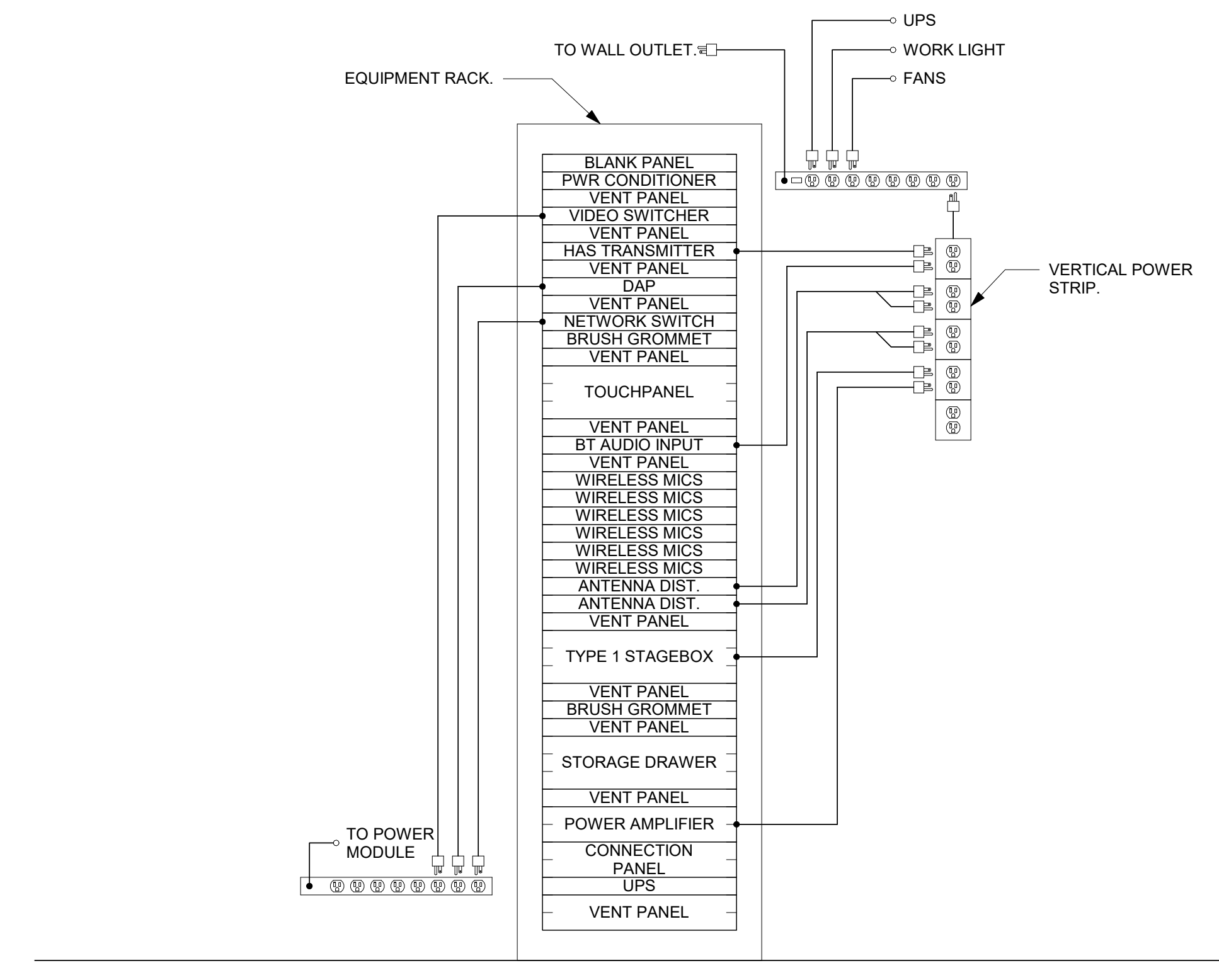
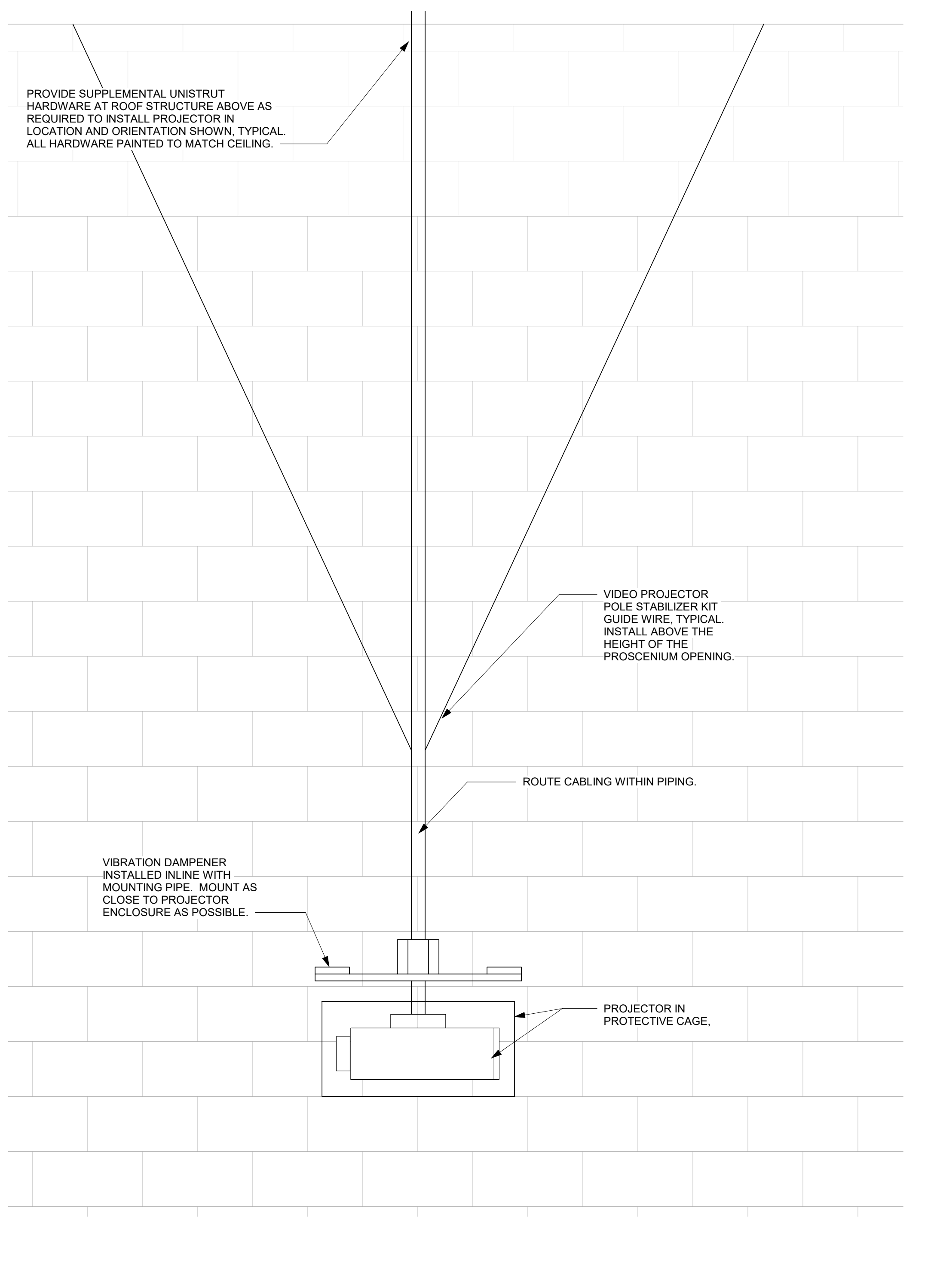
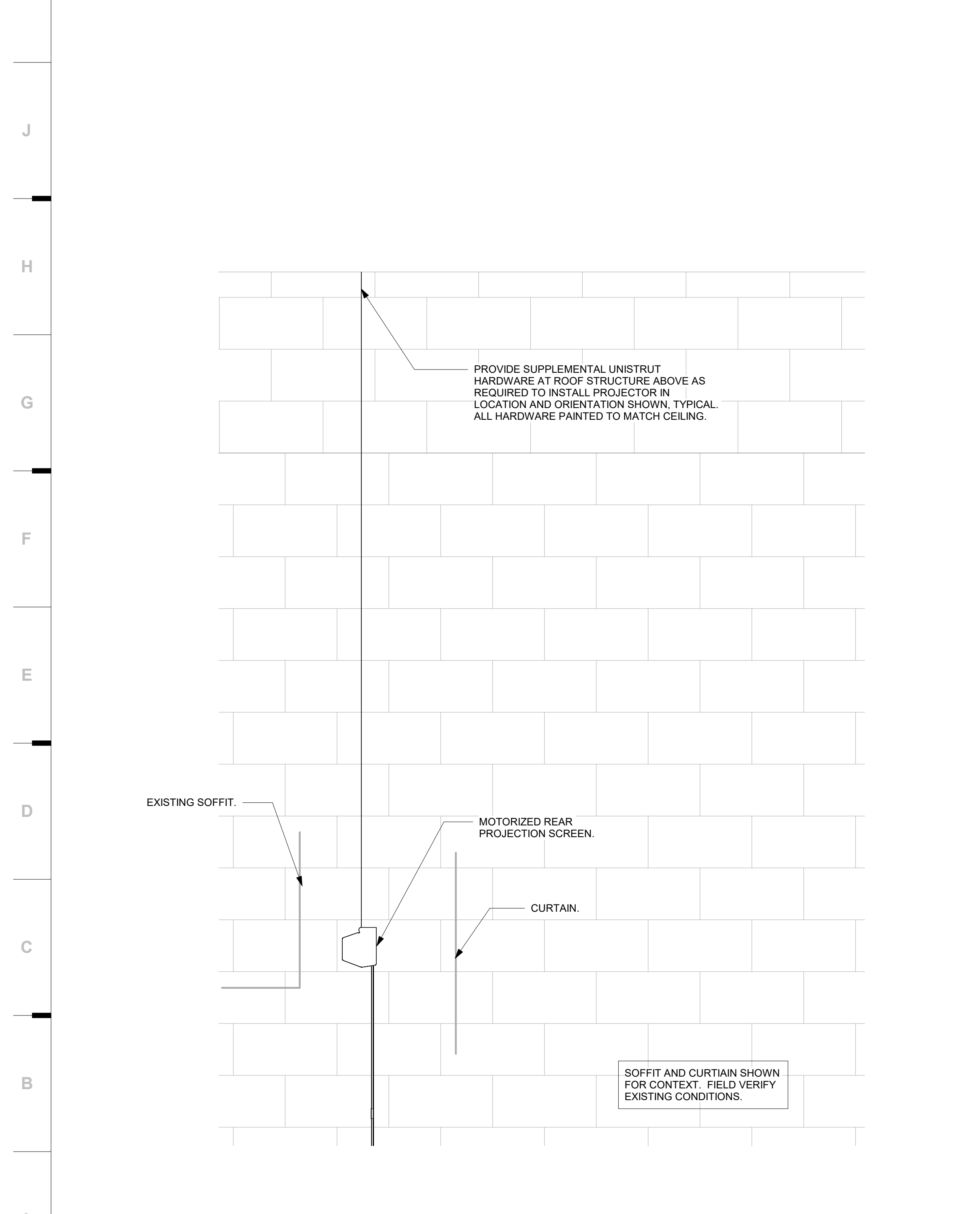
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**GENERAL LOUDSPEAKER NOTES**

1. STRUCTURAL DETAILS, STRUCTURAL MEMBER TYPES, SIZES, AND ATTACHMENT METHODS ARE SHOWN FOR CONCEPT ONLY. ATTENTION IS CALLED TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS REGARDING APPROVAL OF THE EXACT DETAILS TO BE USED.
2. INSTALL LOUDSPEAKERS SO THERE ARE NO OBSTRUCTIONS TO EACH LOUDSPEAKER'S RATED COVERAGE PATTERN.
3. LOUDSPEAKERS ARE DRAWN TO APPROXIMATE DIMENSIONS. VERIFY EXACT DIMENSIONS REQUIRED FOR LOUDSPEAKERS FURNISHED.
4. PROVIDE ACCESS TO LOUDSPEAKERS DURING INSTALLATION, TESTING, AND EQUALIZATION ACTIVITIES. REORIENT LOUDSPEAKERS, IF SO REQUESTED BY ACOUSTICAL CONSULTANT, DURING SYSTEM TESTING AND EQUALIZATION ACTIVITIES.
5. PAINT ALL LOUDSPEAKERS (UNLESS AN ENCLOSURE COLOR IS SPECIFIED OTHERWISE) AND MOUNTING HARDWARE TWO COATS OF SATIN ENAMEL, COLOR AS SELECTED BY THE ARCHITECT. USE PRIMER PER MANUFACTURER RECOMMENDATIONS. DO NOT PAINT CONES OF LOW FREQUENCY LOUDSPEAKERS OR DIAPHRAGMS OF HIGH FREQUENCY DRIVERS.

<b>L1</b>	Scale	Satellite Loudspeaker Mounting Detail	<b>L6</b>	Scale	Main Loudspeaker Mounting Detail
	1" = 1'-0"			1" = 1'-0"	



<b>A1</b>	Scale	Projection Screen Mounting Detail	<b>A7</b>	Scale	Projector Mounting Detail	<b>A14</b>	Scale	AV Equipment Rack Elevation
	1" = 1'-0"			1" = 1'-0"			1" = 1'-0"	

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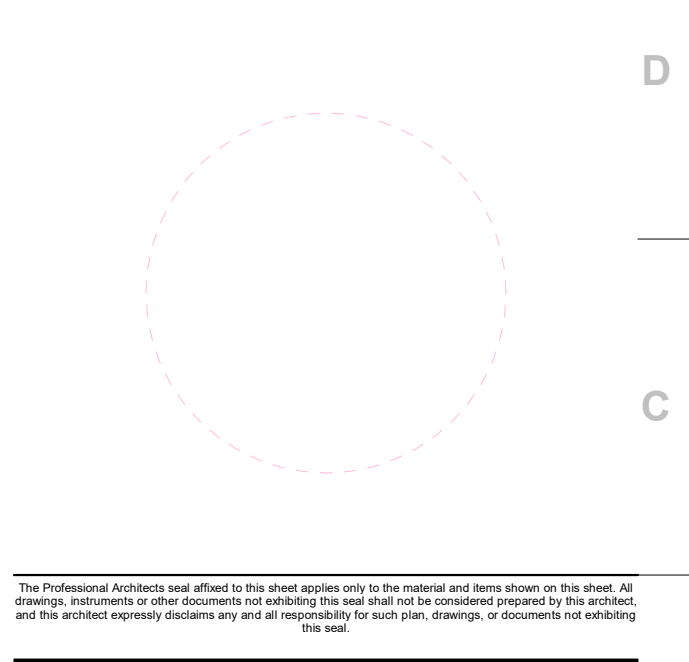
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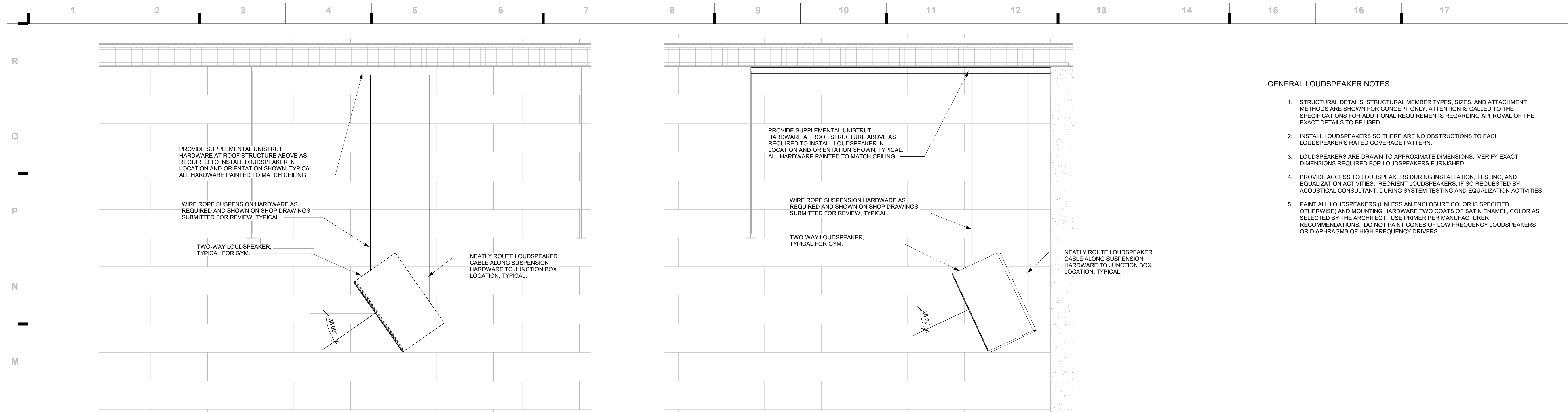
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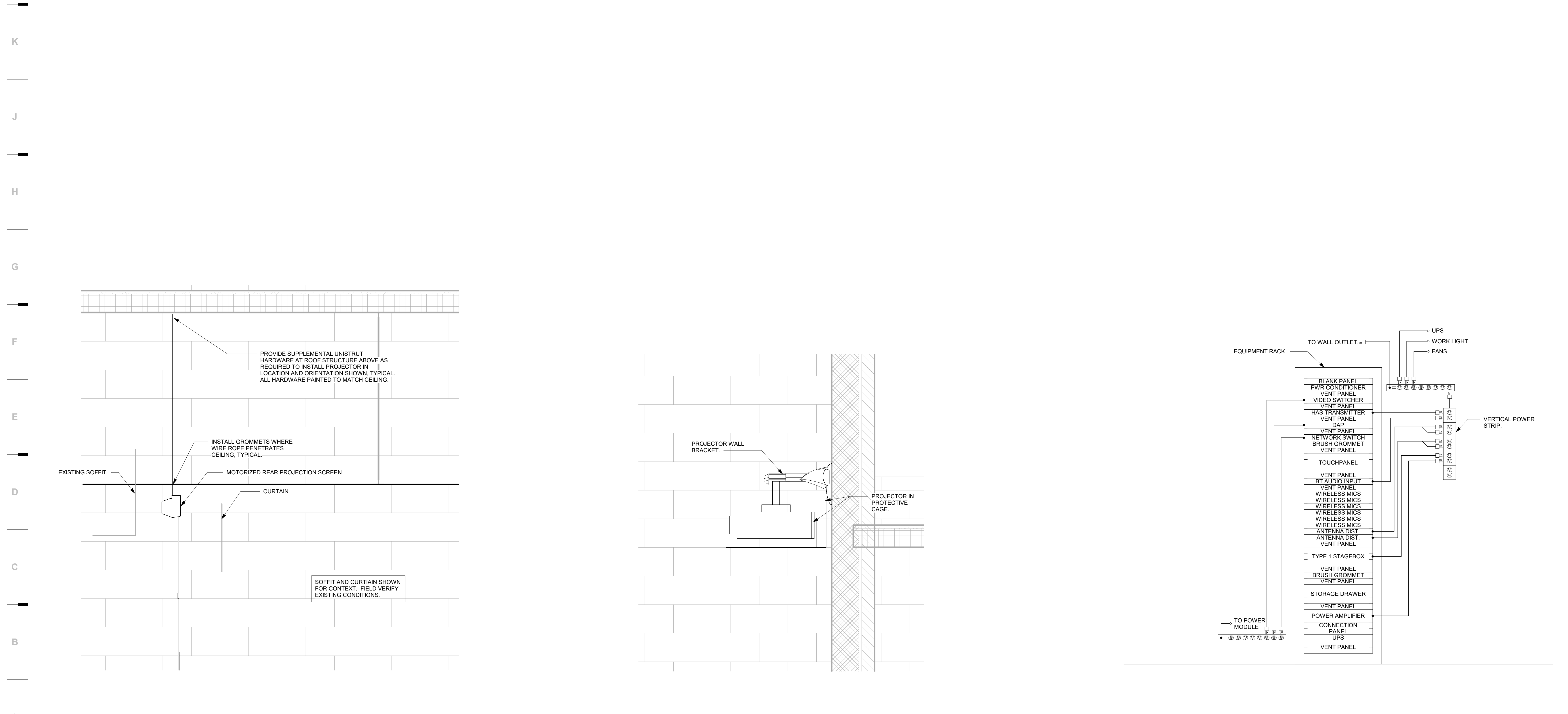
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**AV601.C**



- GENERAL LOUDSPEAKER NOTES**
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<b>A1</b>	Scale	Projection Screen Mounting Detail	<b>A7</b>	Scale	Projector Mounting Detail	<b>A13</b>	Scale	AV Equipment Rack Elevation
	1" = 1'-0"			1" = 1'-0"			1" = 1'-0"	

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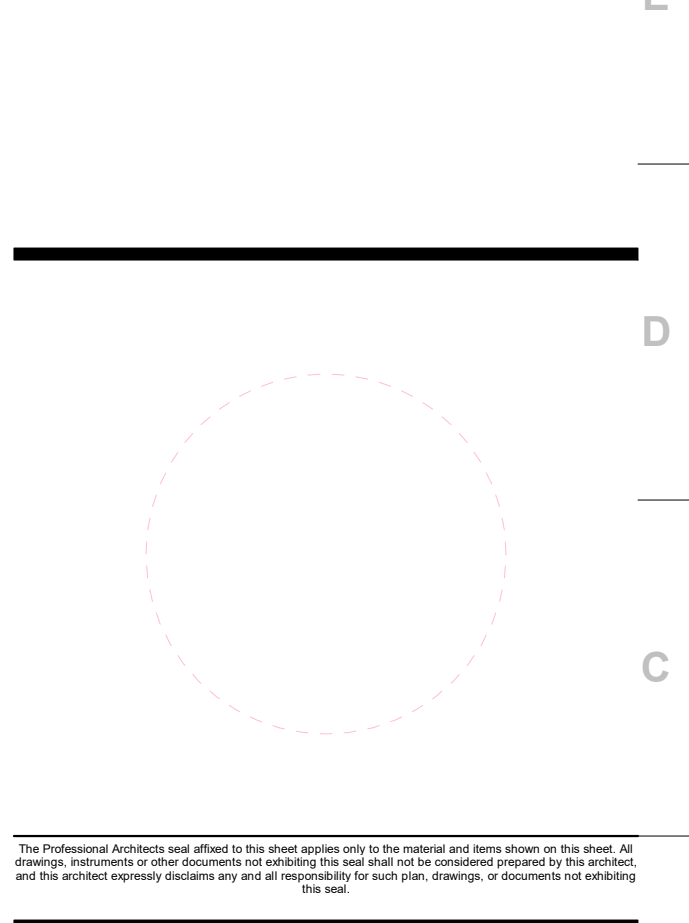
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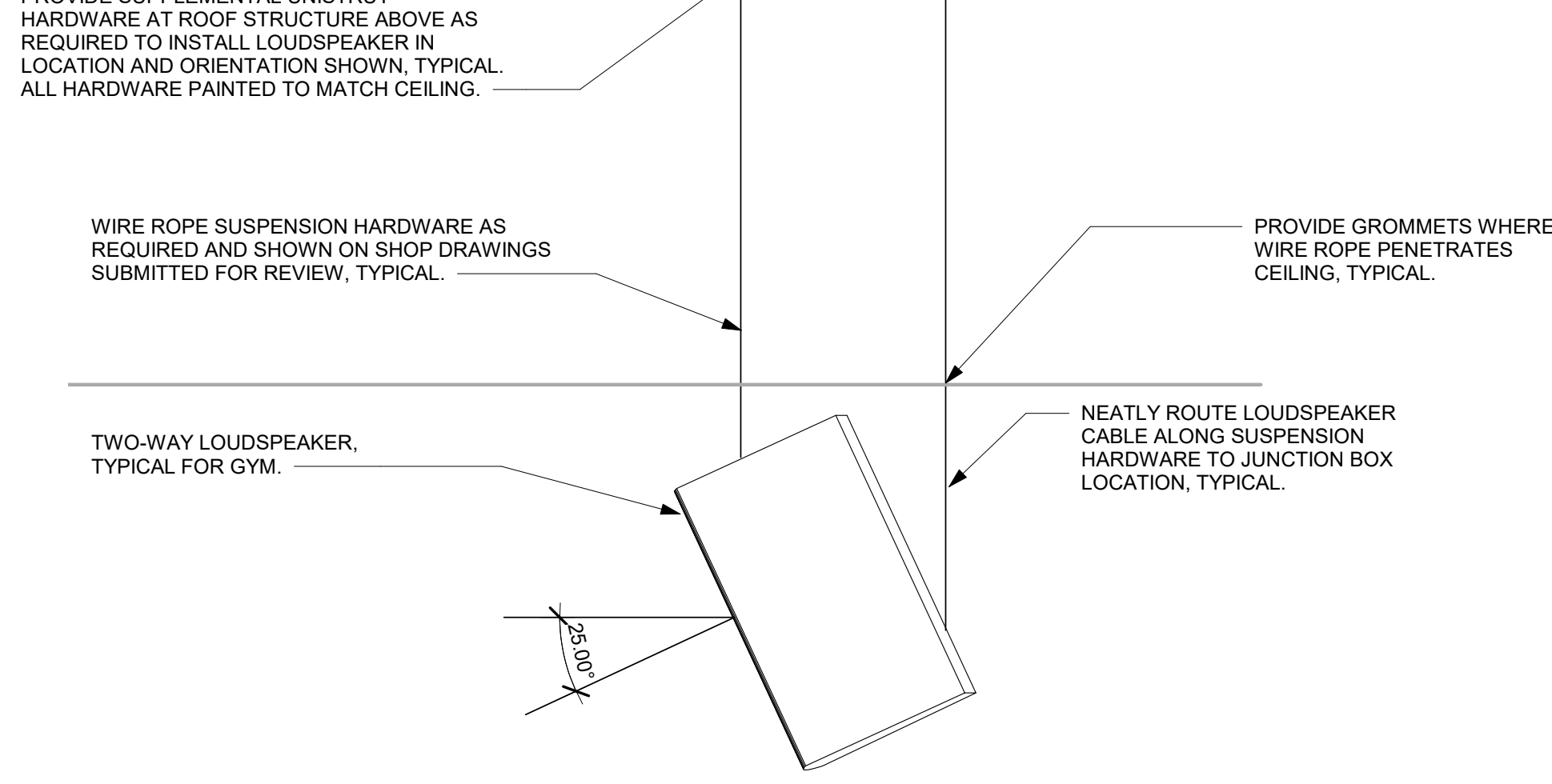
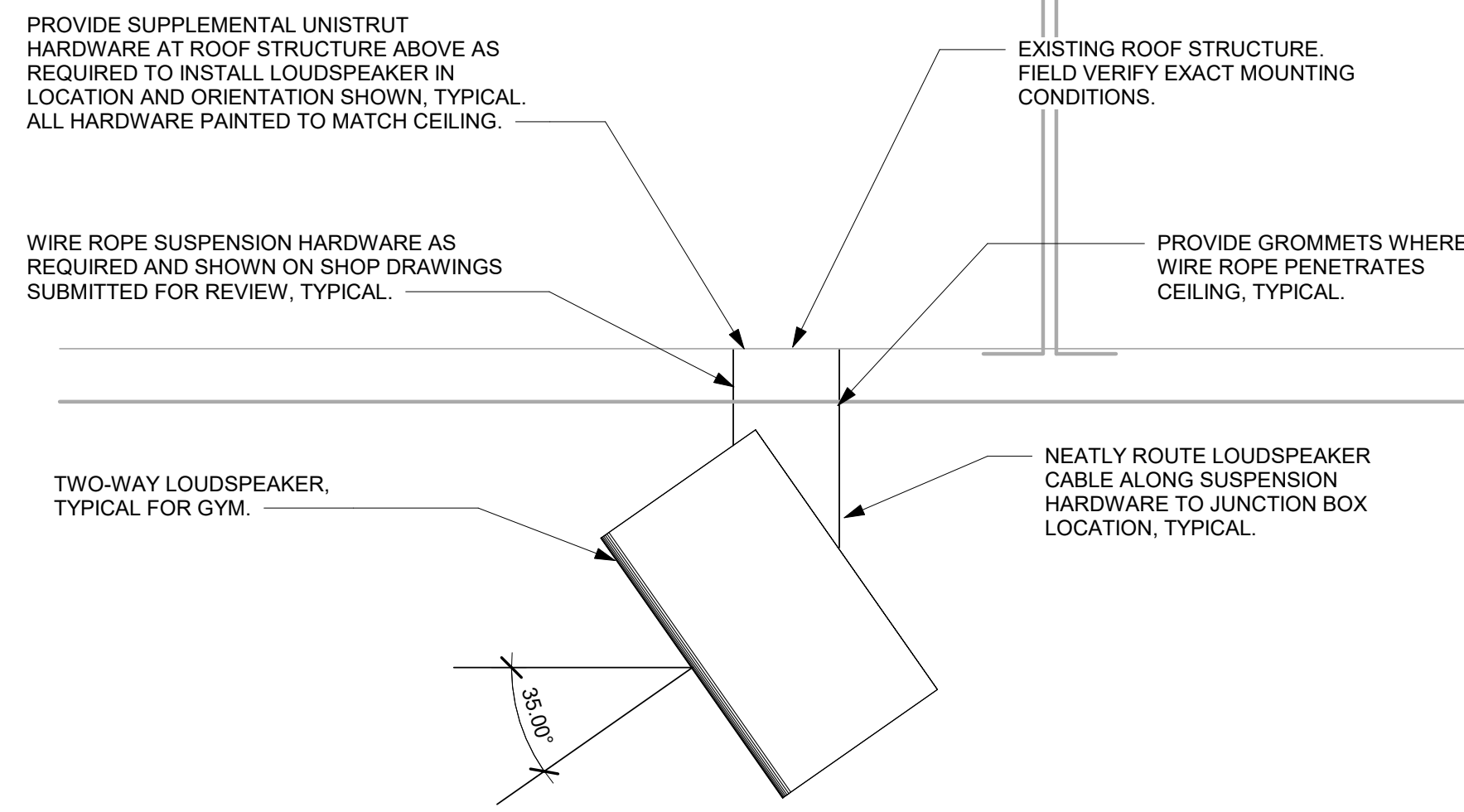
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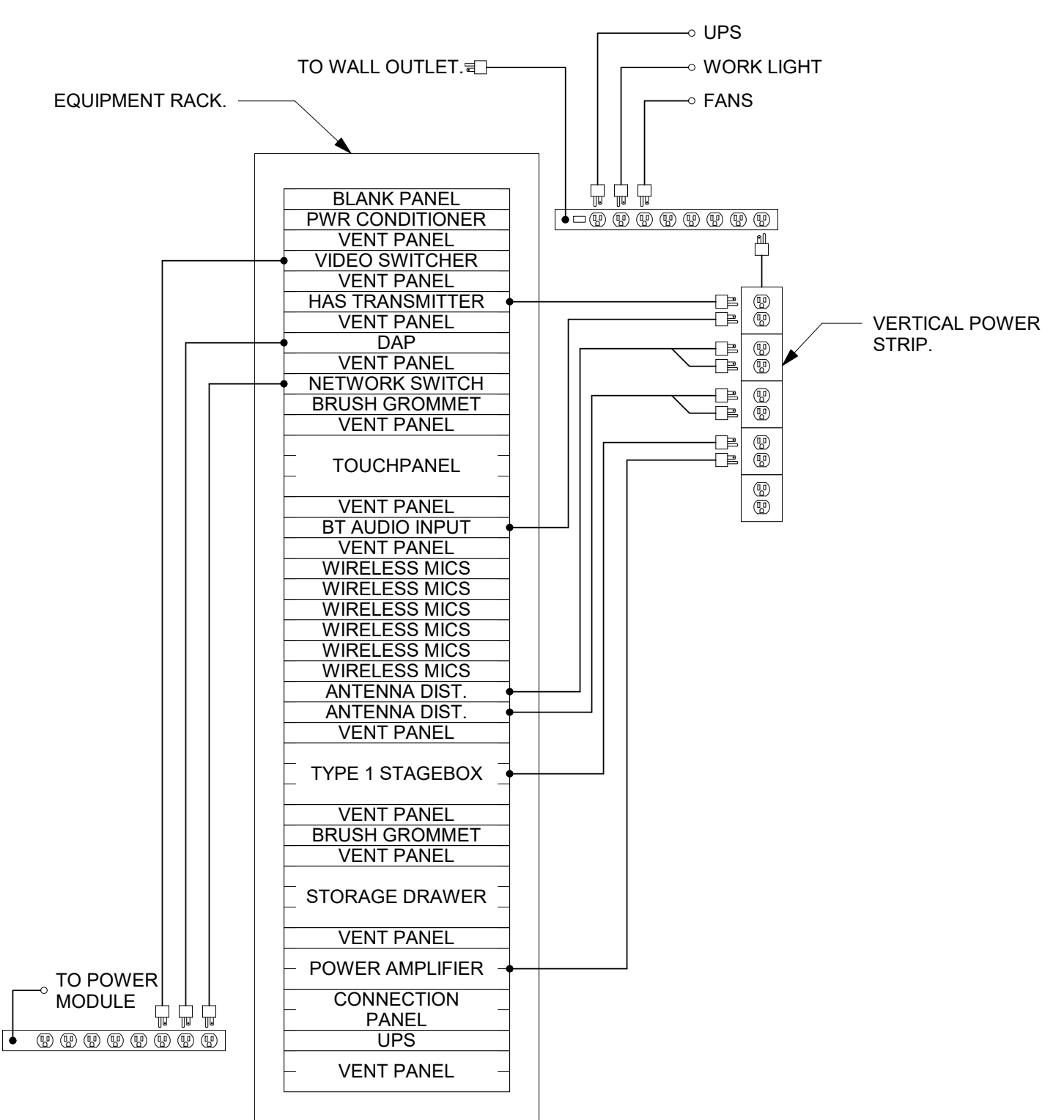
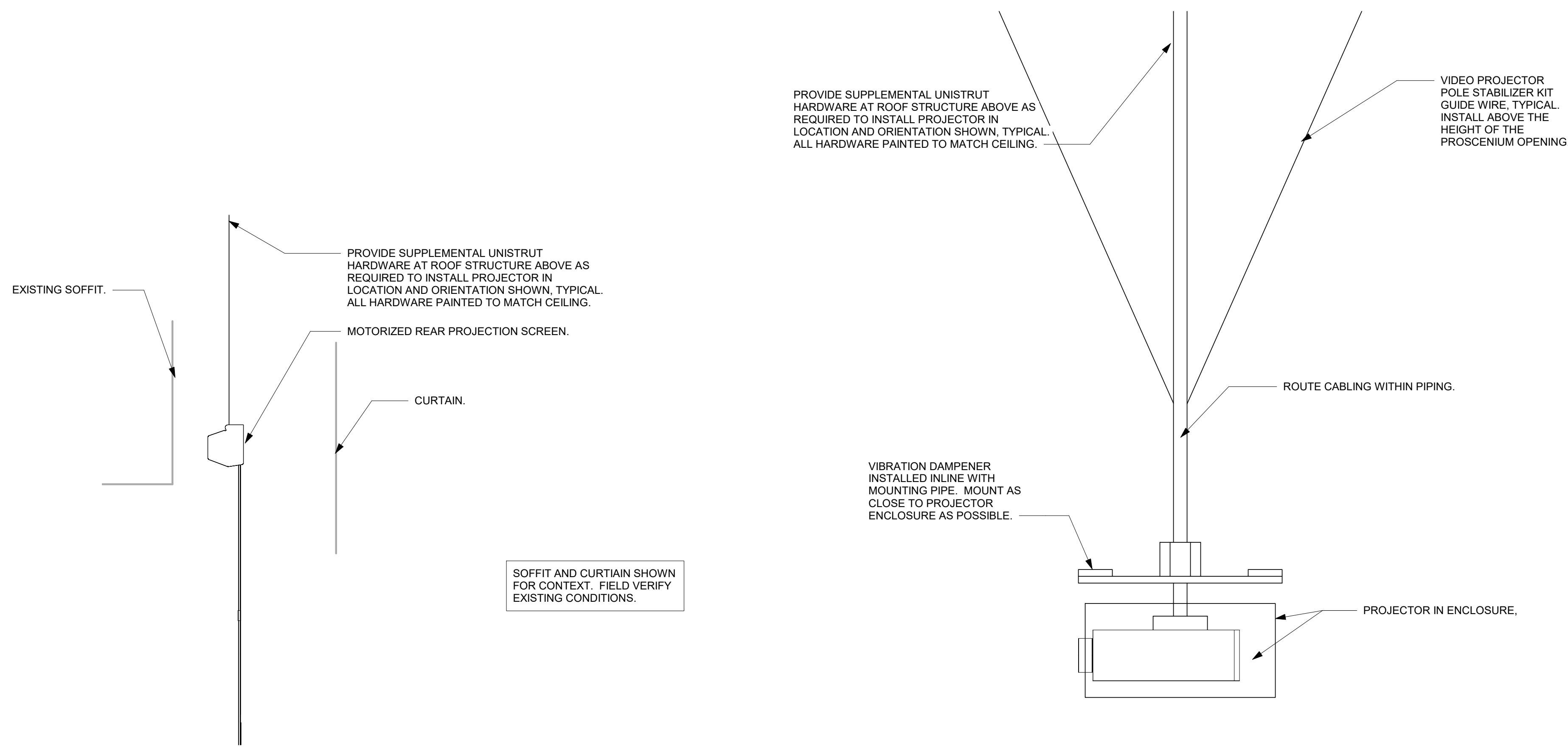
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<b>L1</b>	Scale	Satellite Loudspeaker Mounting Detail	<b>L7</b>	Scale	Main Loudspeaker Mounting Detail
	1" = 1'-0"			1" = 1'-0"	



<b>A1</b>	Scale	Projection Screen Mounting Detail	<b>A6</b>	Scale	Projector Mounting Detail	<b>A12</b>	Scale	AV Equipment Rack Elevation
	1" = 1'-0"			1" = 1'-0"			1" = 1'-0"	

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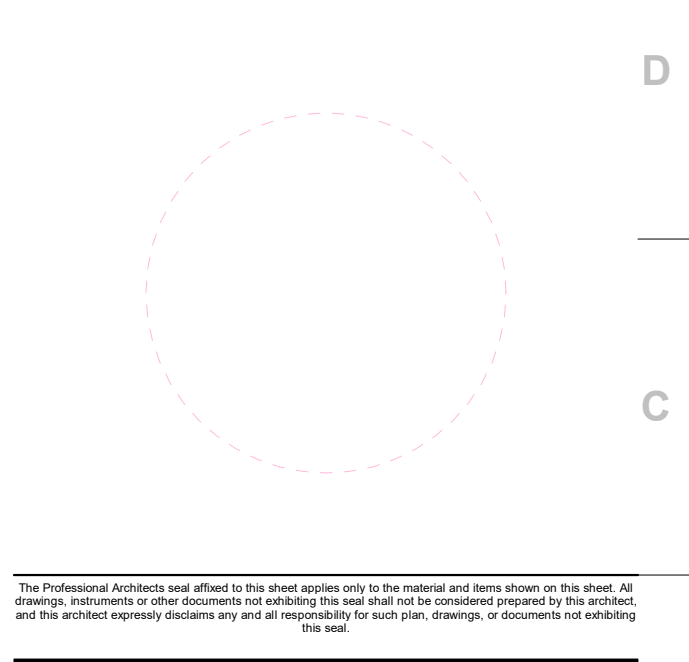
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**CONSTRUCTION DOCUMENTS**

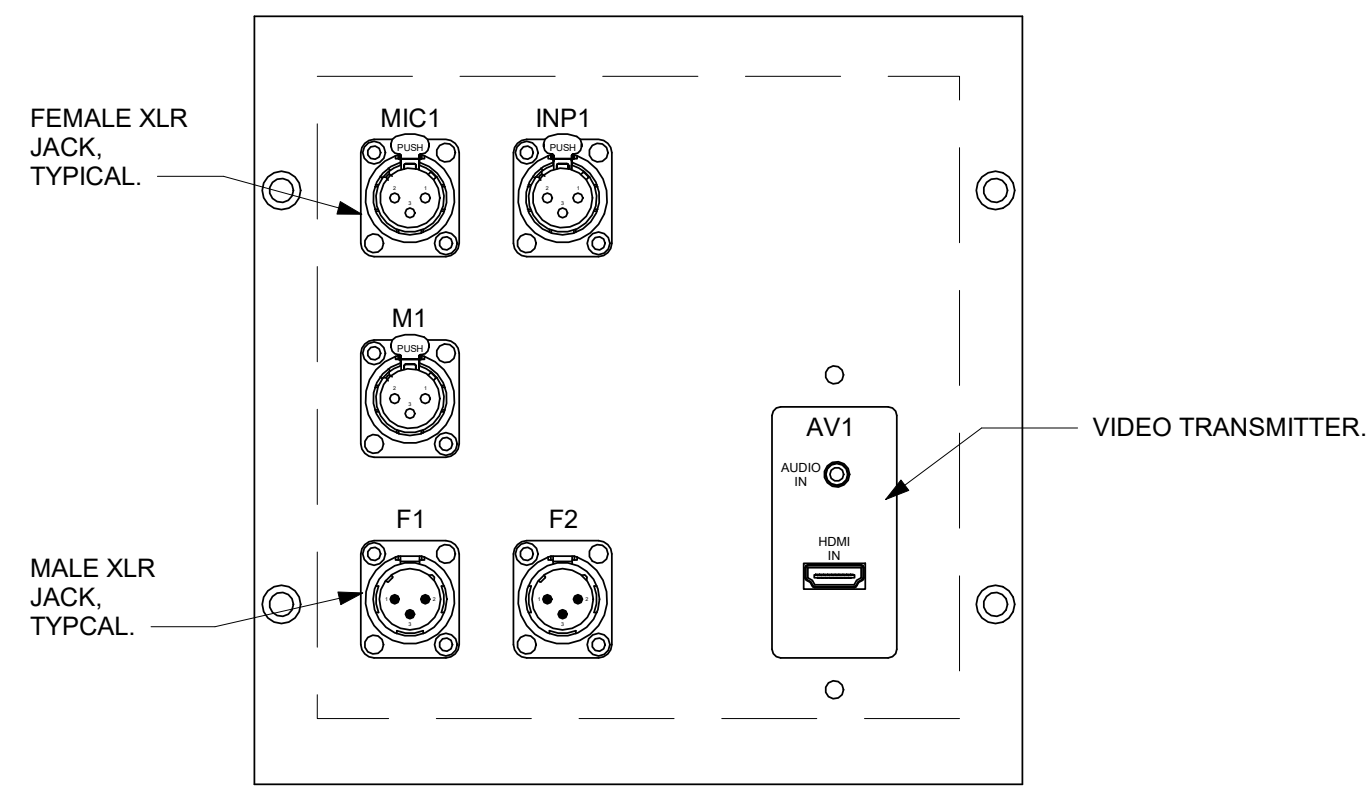
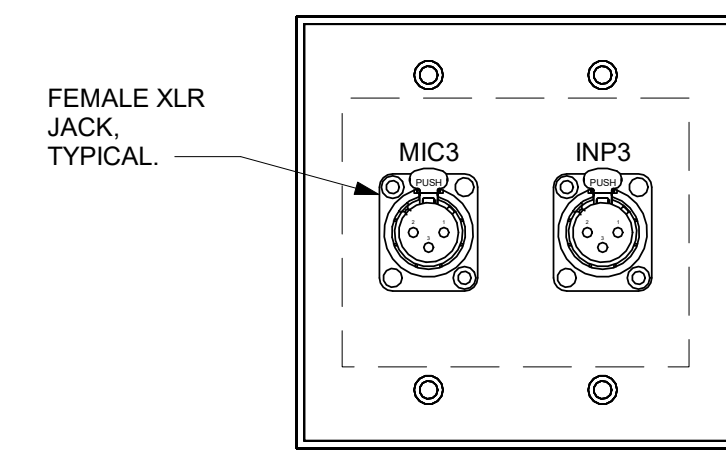
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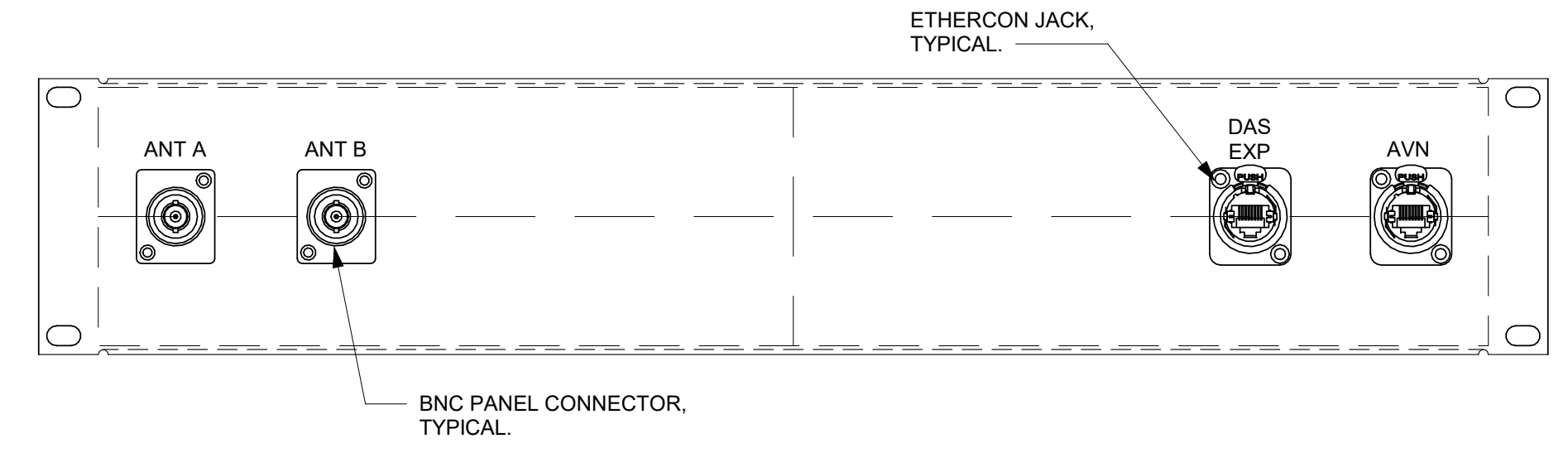
**AV601.S**



GENERAL CONNECTION PANEL NOTES

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- UNLESS NOTED OTHERWISE, NEMA SIZE CONNECTION PANELS SHALL BE CLEAR ANODIZED BRUSHED ALUMINUM, OR COLOR AS SELECTED BY ARCHITECT.
  - A. 12-INCHES OR SMALLER: 1/8-INCH THICK.
  - B. LARGER THAN 12-INCHES: 3/16-INCH THICK.
  - C. FIELD-VERIFY MOUNTING CONDITIONS FOR EACH BOX. FLUSH MOUNTED PLATES SHALL HAVE A MINIMUM 1/2-INCH FLANGE ON ALL SIDES.
- ALL CONNECTION PANELS SHALL HAVE COUNTERSUNK SCREW HOLES AND PHILLIPS COUNTERSUNK OR OVAL-HEAD SCREWS FINISHED TO MATCH PANEL. ALL LETTERING SHALL BE ENGRAVED AND FILLED DIRECTLY ON THE PANEL. REGARDLESS OF PANEL COLOR, ALL PANEL MOUNTED CONNECTORS SHOULD MATCH THE FINISH COLOR OF THE PANEL WHEREVER POSSIBLE.
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<b>N1</b>	Scale	Gang Connection Plate Detail	<b>N7</b>	Scale	Large Box Connection Plate Detail
	6" = 1'-0"			6" = 1'-0"	



<b>H1</b>	Scale	Rack Connection Plate Detail
	6" = 1'-0"	

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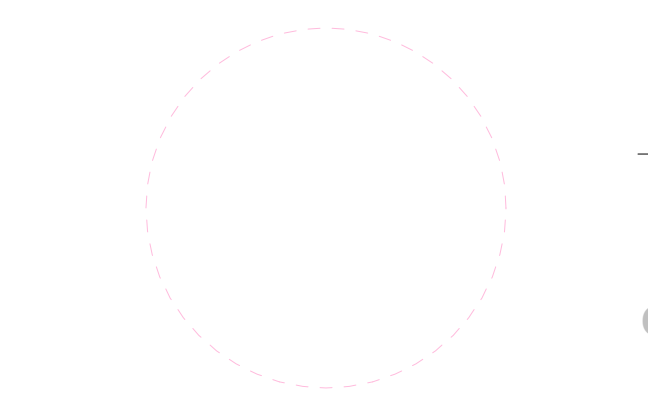
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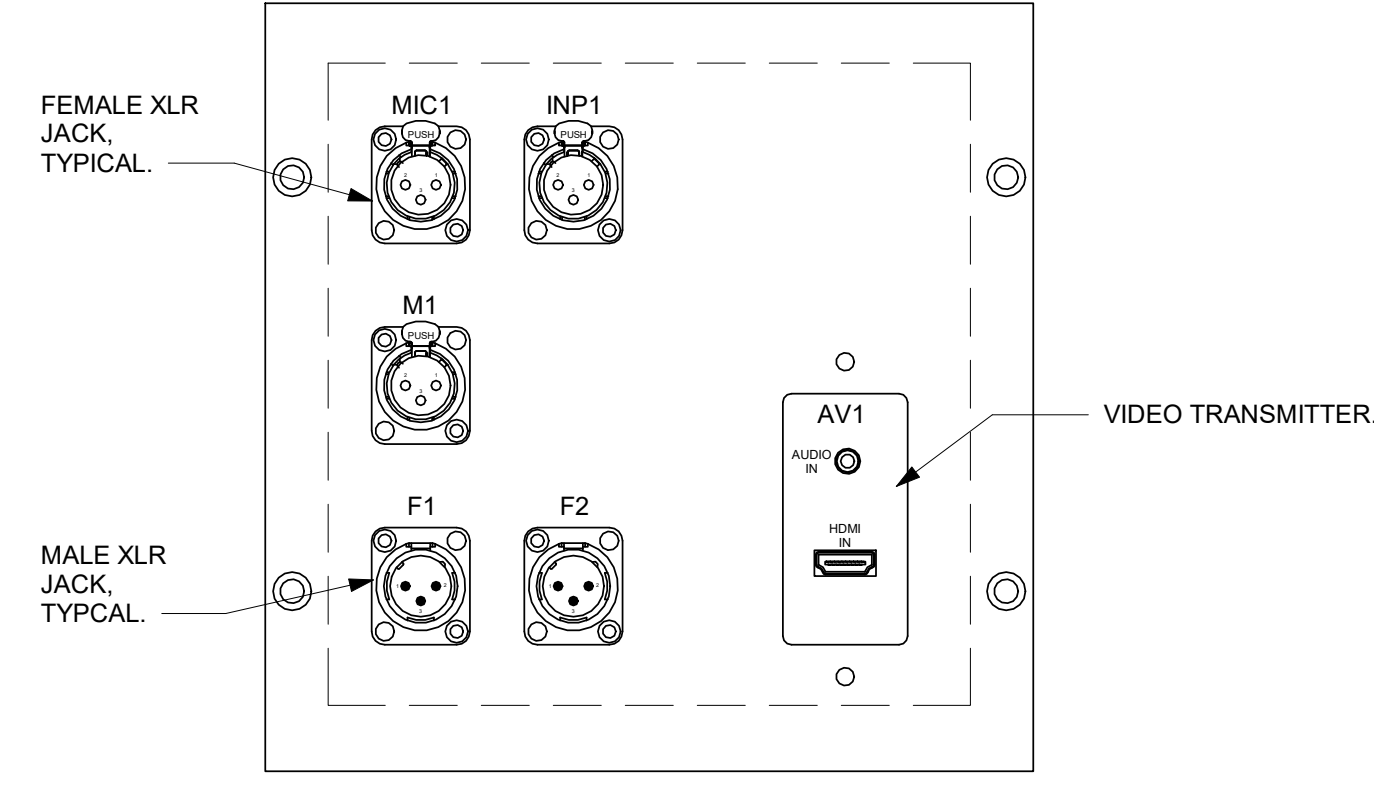
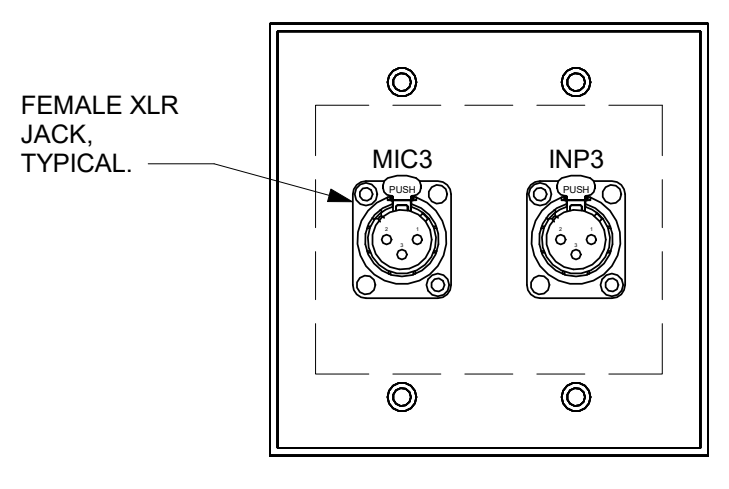


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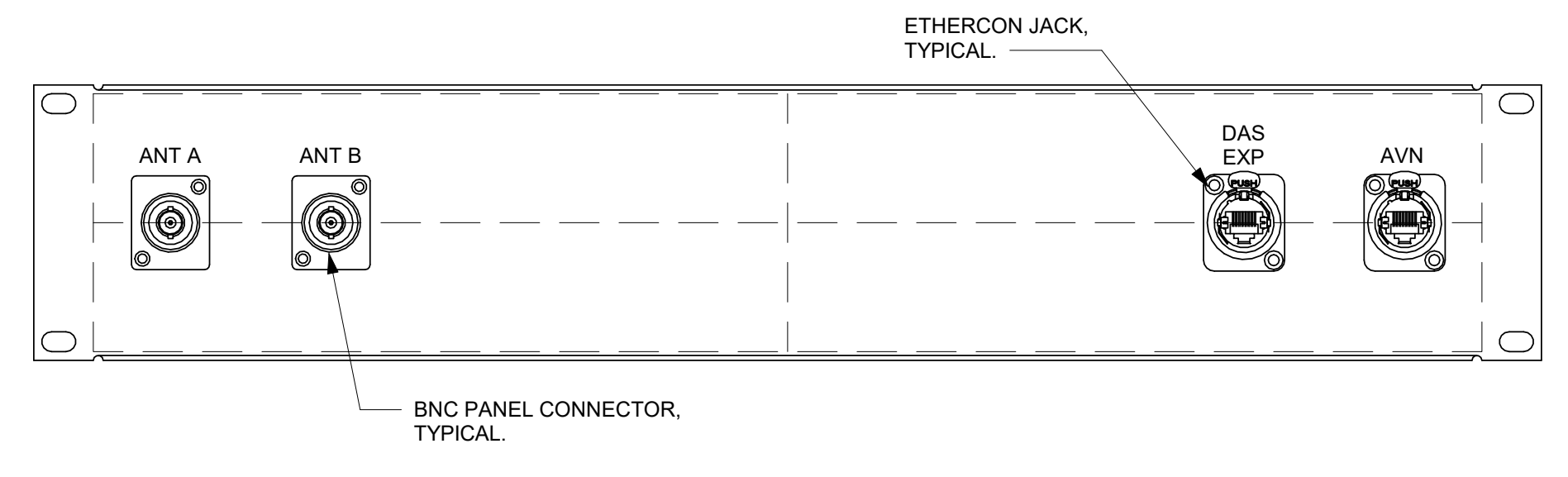
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<b>N1</b>	Scale	Gang Connection Plate Detail	<b>N7</b>	Scale	Large Connection Plate Detail
	6" = 1'-0"			6" = 1'-0"	



<b>H1</b>	Scale	Rack Connection Plate Detail
	6" = 1'-0"	

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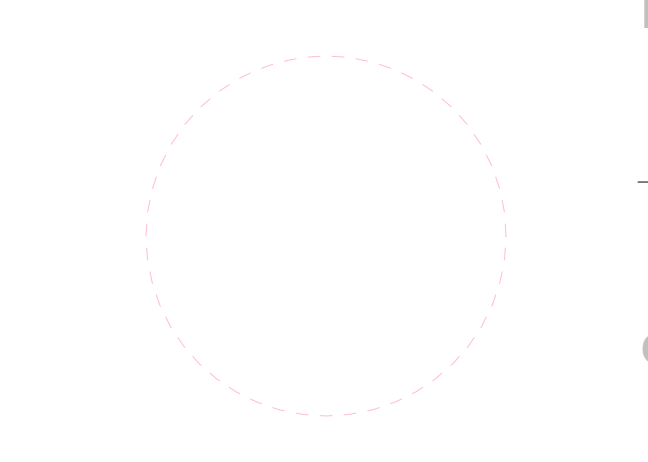
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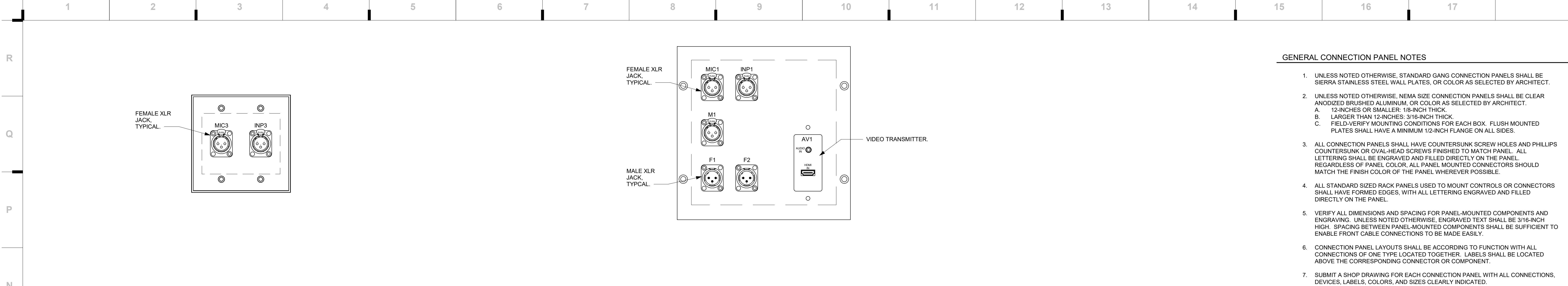
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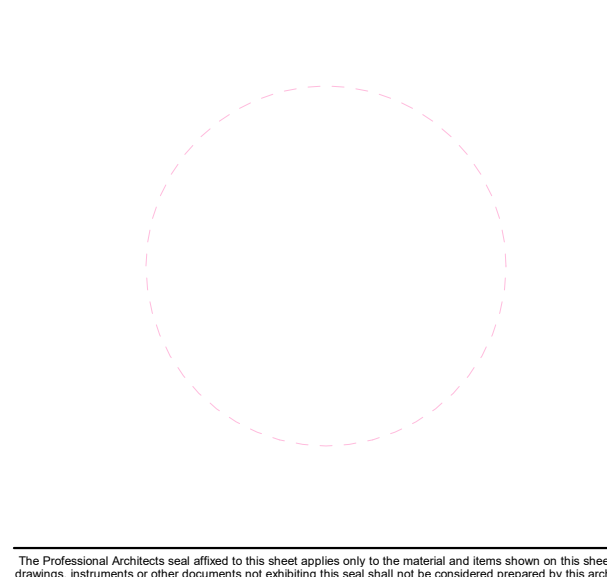
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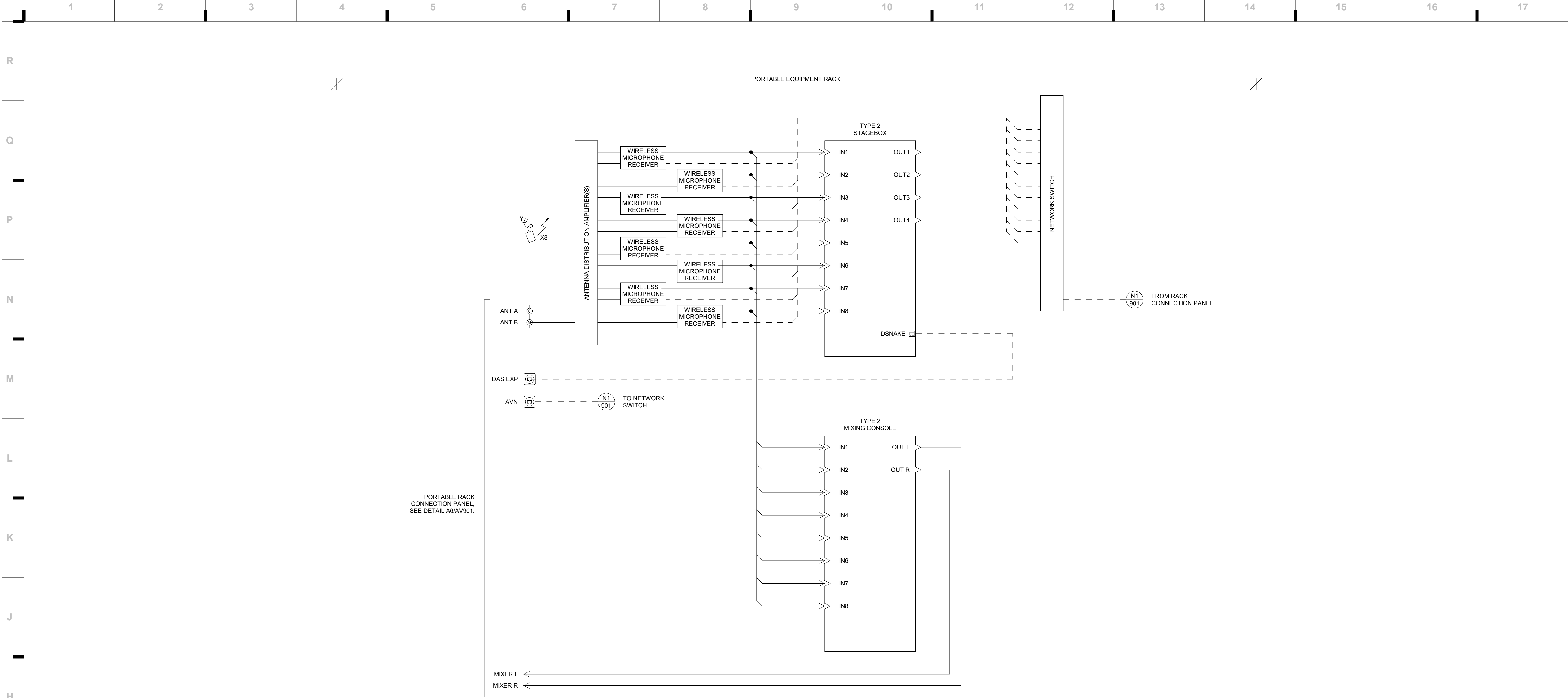
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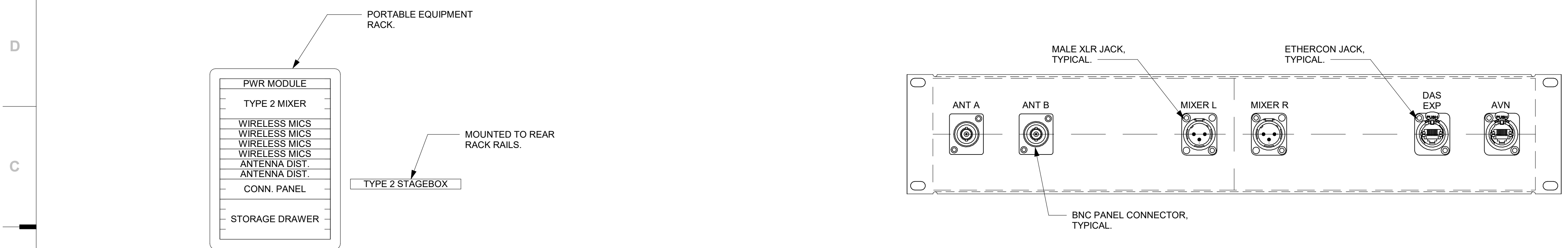


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**G1** Scale 12" = 1'-0" Alternate One-Line Diagram



**A1** Scale 1" = 1'-0" Portable Microphone Rack **A6** Scale 6" = 1'-0" Alternate Rack Connection Plate

ALL WORK ON THIS SHEET IS PART OF ALTERNATE NO. 1.  
SEE SPECIFICATIONS FOR FURTHER INFORMATION.

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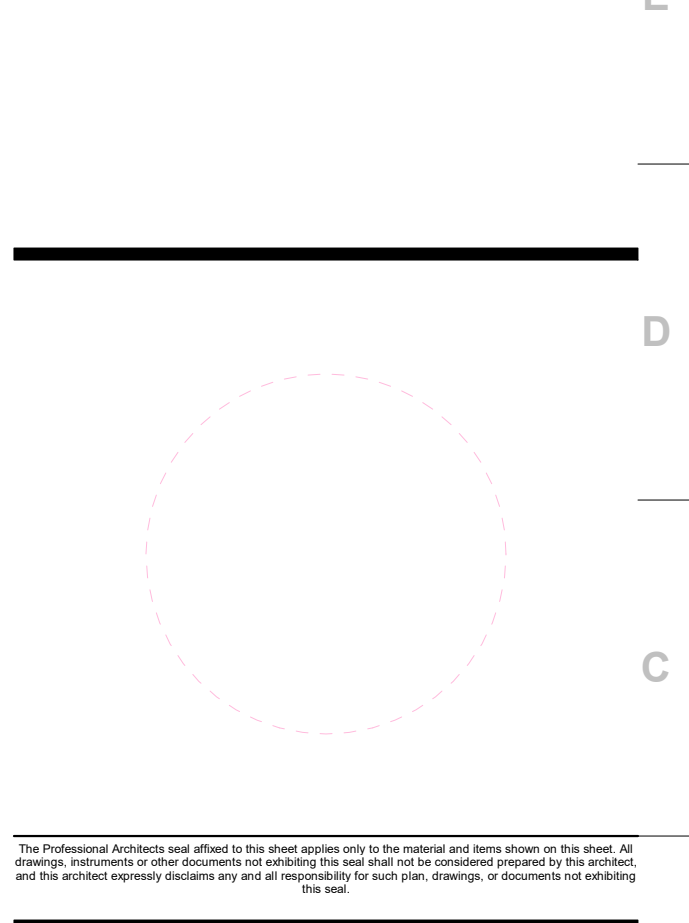
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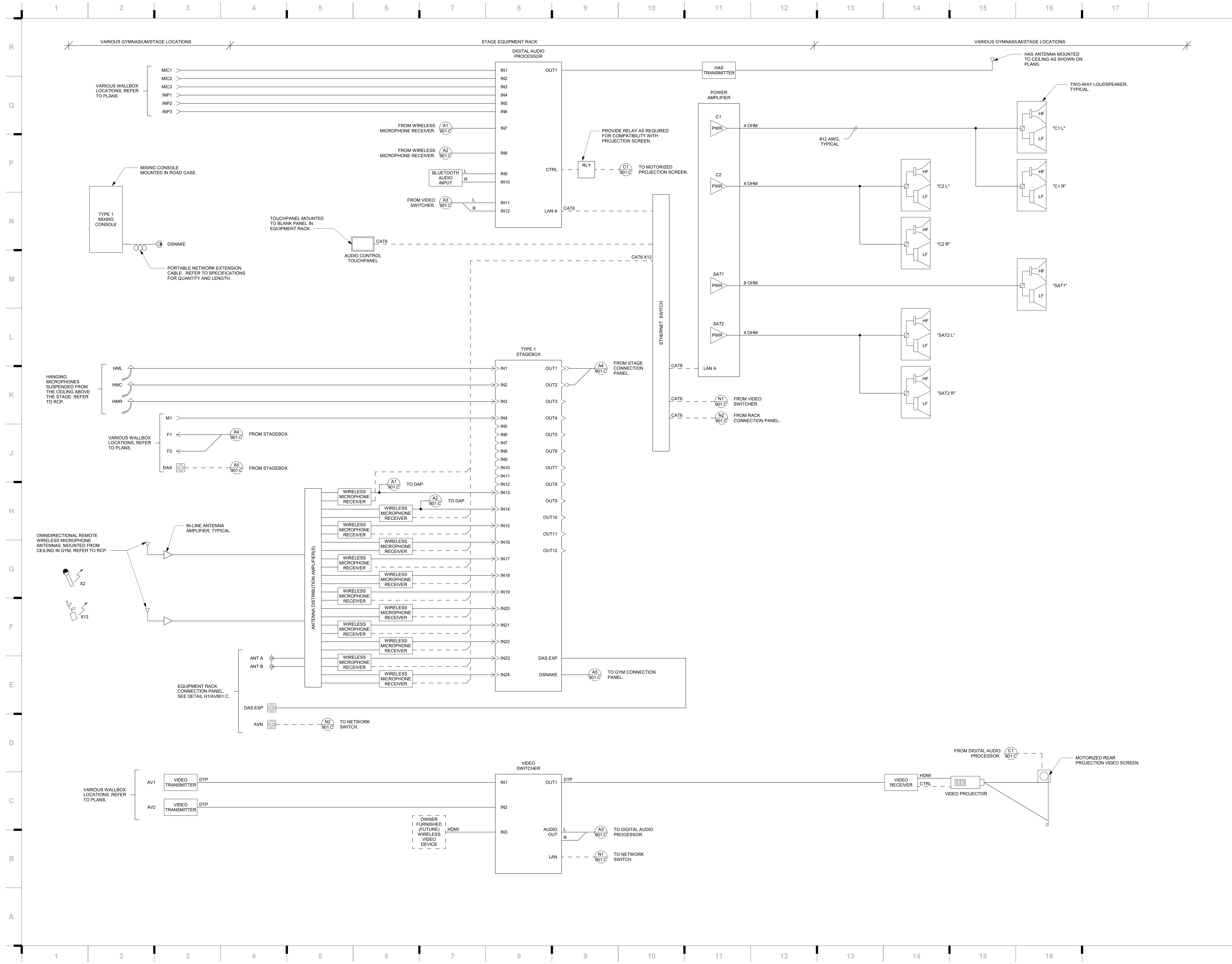
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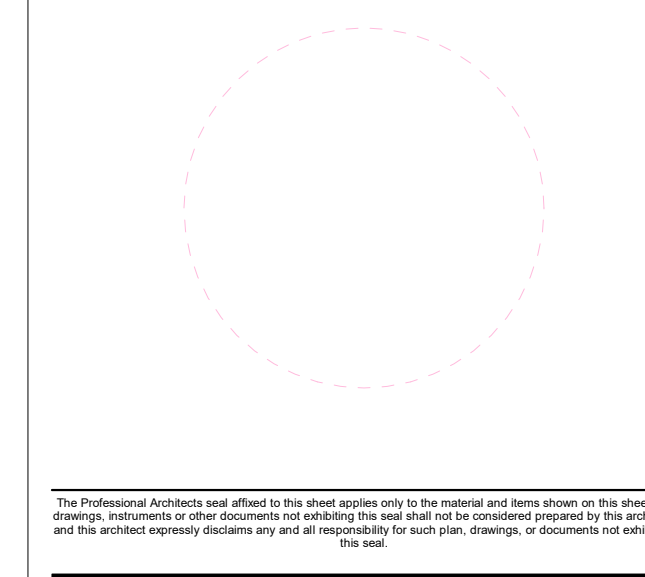
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 Raytown, MO 64133  
 RAYTOWN SOUTH MIDDLE SCHOOL  
 5411 E. 38th Street  
 Raytown, MO 64138

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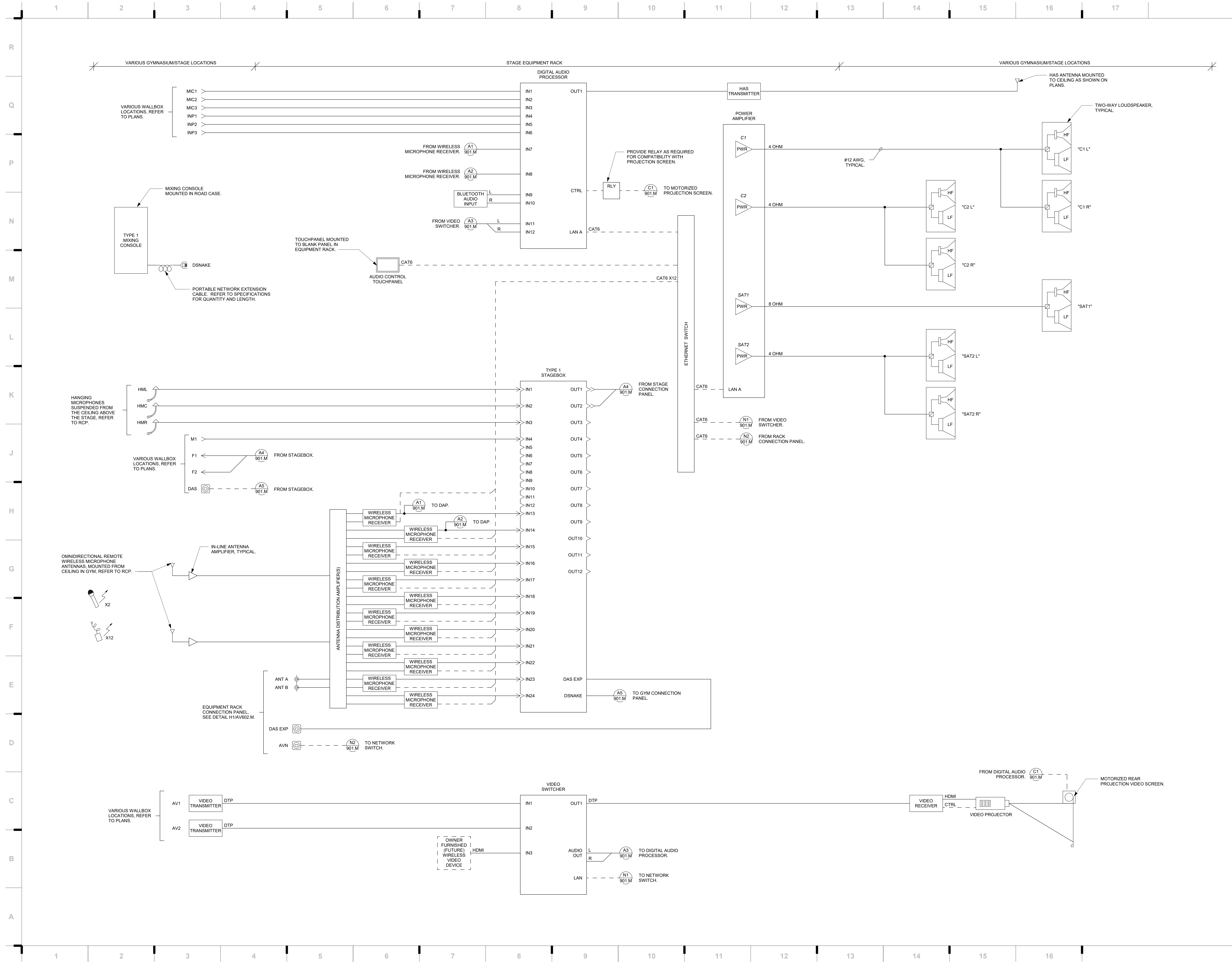


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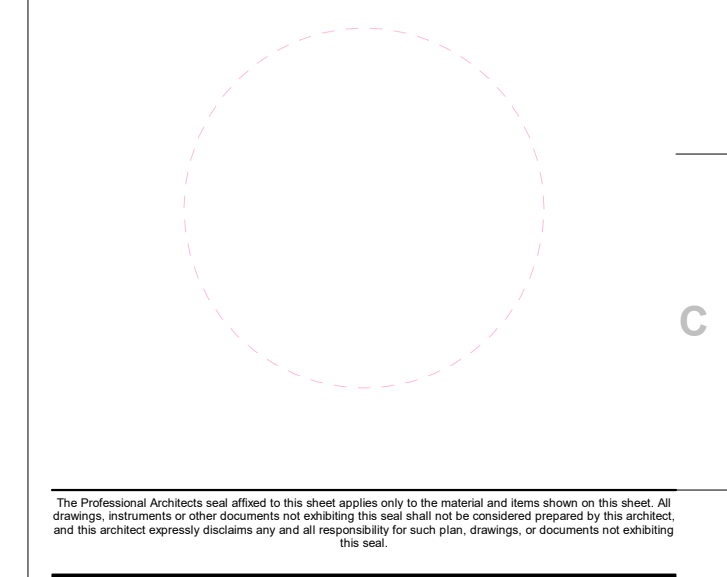
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 Kansas City, MO 64133  
 RAYTOWN SOUTH MIDDLE SCHOOL  
 8411 E. 38th Street  
 Raytown, MO 64138

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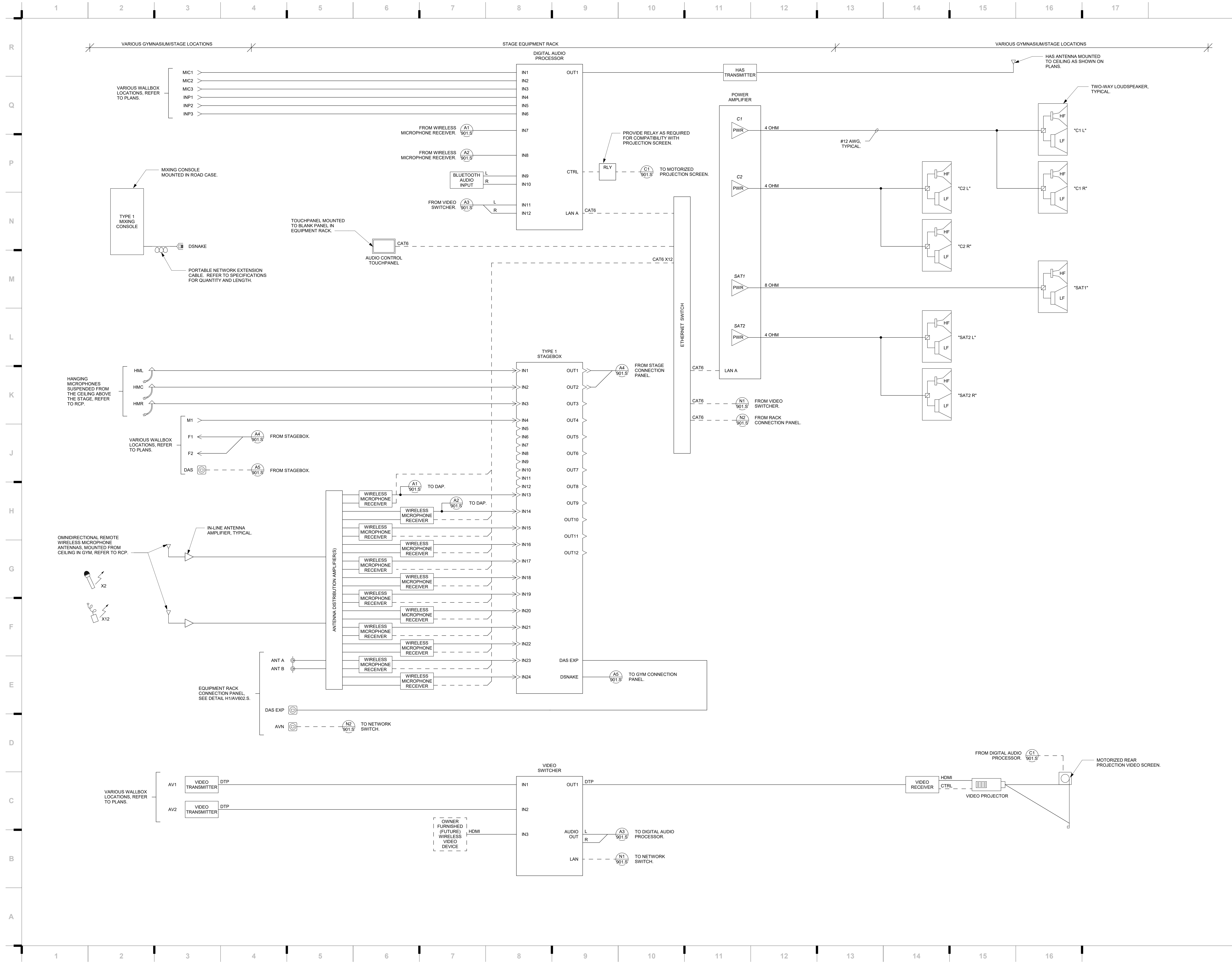


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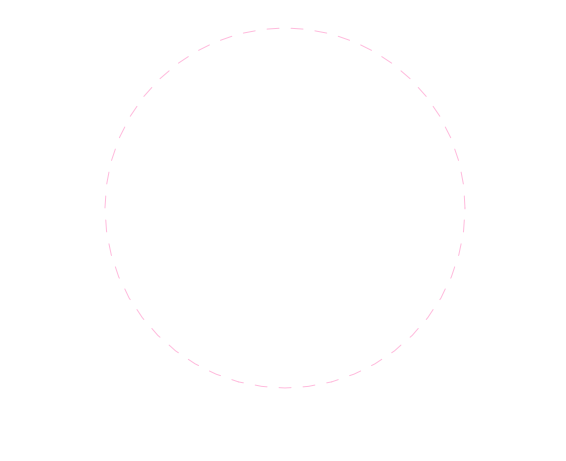
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The Professional Architect and Engineer shall be held responsible for the design and construction of the project. All drawings, specifications and other documents are subject to the approval and signature of the architect and engineer. The architect and engineer shall be held responsible for the design and construction of the project.