

# AUDIO VISUAL ILLUMINATIONS INC.

## SHEET INDEX

SHEET NO.	ISSUE LOG	ROOM	DRAWING DESCRIPTION
	ISSUED FOR REVIEW 11/21/2025		
	ISSUED FOR CONSTRUCTION 11/24/2025		
AV-101	X	--	COVER PAGE
AV-102	X	--	GENERAL NOTES, RESPONSIBILITY & JUNCTION BOX SCHEDULE, SYMBOLS AND LEGENDS
AV-301.1	X		AUDIO & NETWORK FUNCTIONAL DRAWING
AV-301.2	X		POWER DISTRIBUTION FUNCTIONAL DRAWING

DATE:	NO:	REVISIONS:
11.21.25	0	ISSUED FOR REVIEW
11.24.25	1	ISSUED FOR CONSTRUCTION

GENERAL INFORMATION	
DRAFTER:	AVDL
DESIGNER:	--
PROJECT MGR:	--
SALES REP:	--
DATE:	11.21.2025
SCALE:	AS INDICATED

**AUDIO VISUAL ILLUMINATIONS INC.**



COVER PAGE

JOB NO: --

SHEET

AV-101

**AV SYMBOL LEGEND AND JBOX SCHEDULE (FLOOR)**

	AV EQUIPMENT RACK @ 18" A.F.F. UNLESS OTHERWISE NOTED SIZE = 1G (1 GANG), 2G (2 GANG BOX), 3G (3 GANG BOX) ETC.
	AV INTERFACE @ 18" A.F.F. UNLESS OTHERWISE NOTED SIZE = 1G (1 GANG), 2G (2 GANG BOX), 3G (3 GANG BOX) ETC.
	AV TOUCH PANEL @ 54" A.F.F. UNLESS OTHERWISE NOTED SIZE = 1G (1 GANG), 2G (2 GANG BOX), 3G (3 GANG BOX) ETC.
	AV BUTTON PANEL @ 48" A.F.F. UNLESS OTHERWISE NOTED SIZE = 1G (1 GANG), 2G (2 GANG BOX), 3G (3 GANG BOX) ETC.
	FLAT PANEL DISPLAY @ 60" A.F.F. UNLESS OTHERWISE NOTED SIZE = 1G (1 GANG), 2G (2 GANG BOX), 3G (3 GANG BOX) ETC.
	FLAT PANEL DISPLAY @ 60" A.F.F. UNLESS OTHERWISE NOTED SIZE = PAC BOX AS SPECIFIED
	CAMERA @ 60" A.F.F. UNLESS OTHERWISE NOTED SIZE = 1G (1 GANG), 2G (2 GANG BOX), 3G (3 GANG BOX) ETC.
	WALL MOUNT SPEAKER @ 60" A.F.F. UNLESS OTHERWISE NOTED SIZE = 1G (1 GANG), 2G (2 GANG BOX), 3G (3 GANG BOX) ETC.
	AV SCREEN SWITCH @ 48" A.F.F. UNLESS OTHERWISE NOTED SIZE = 1G (1 GANG), 2G (2 GANG BOX), 3G (3 GANG BOX) ETC.
	WALL MOUNTED WIRELESS ACCESS POINT SIZE = 1G (1 GANG), 2G (2 GANG BOX), 3G (3 GANG BOX) ETC.
	WALL MOUNTED SENSORS SIZE = 1G (1 GANG), 2G (2 GANG BOX), 3G (3 GANG BOX) ETC.
	WALL MOUNTED CLOCK POWER OUTLET
	WALL MOUNTED DUPLEX POWER OUTLET
	WALL MOUNTED QUAD POWER OUTLET
	WALL MOUNTED DATA OUTLET
	WALL MOUNTED VOICE/DATA OUTLET
	FLOOR BOX
	FLOOR CORE
	TABLE BOX
	FLOOR DUPLEX POWER OUTLET
	FLOOR DUPLEX POWER OUTLET
	FLOOR QUAD POWER OUTLET
	FLOOR DATA OUTLET
	FLOOR VOICE/DATA OUTLET

**SYMBOL LEGEND AND JBOX SCHEDULE (CEILING)**

	CEILING MOUNTED SPEAKER
	CEILING MOUNTED DISPLAY
	CEILING MOUNTED PROJECTOR
	CEILING MOUNTED CAMERA
	CEILING MOUNTED MICROPHONE
	CEILING MOUNTED WIRELESS ACCESS POINT
	110V POWER @ SCREEN/LOW VOLTAGE CONTROLLER
	CEILING MOUNTED SENSOR
	CEILING MOUNTED CLOCK POWER OUTLET
	CEILING MOUNTED DUPLEX POWER OUTLET
	CEILING MOUNTED QUAD POWER OUTLET
	CEILING MOUNTED DATA OUTLET
	CEILING MOUNTED VOICE/DATA OUTLET

**GENERAL ELECTRICAL NOTES**

- BOX MOUNTING HEIGHTS ARE TO CENTER OF BOX
- BOX MOUNTING DEPTHS ARE TO FACE OF BOX. P = PROTRUDING R = FLUSH S = SURFACE
- ALL BOXES AND CONDUIT IN WALLS AND CEILINGS SHALL BE FLUSH MOUNTED OR CONCEALED UNLESS OTHERWISE NOTED ON EXISTING WALLS AND CEILINGS MAY BE SURFACE MOUNTED UNLESS OTHERWISE NOTED
- VERIFY ALL STANDARD HEIGHTS WITH PREVALUING CONDITIONS AT JOBSITE
- THESE DRAWINGS ARE FOR REQUIREMENTS REFERENCE ONLY, NOT FOR CONSTRUCTION.
- COORDINATE WITH ARCHITECT FOR ALL CONDUIT, POWER CIRCUITS, BACK BOXES, ELECTRICAL DEVICES, SUPPLY AND INSTALLATION OF ALL CONDUIT, POWER CIRCUITS, ELECTRICAL DEVICES UNLESS OTHERWISE NOTED
- ELECTRICAL WIRING IS TO BE PROVIDED BY THE PROJECT DIVISION. 18 CONDUCTOR UNLESS OTHERWISE NOTED
- ALL CONDUIT SHALL BE STEEL (EMT OR RIGID), ALUMINUM, FIBERGLASS, OR PVC NOT ACCEPTABLE.
- FLEX CONDUIT SHALL NOT BE CONSIDERED ACCEPTABLE
- E.C. SHALL INSTALL NYLON ROPE IN ALL CONDUITS FOR WIRING SPECIFIED IN DIVISION 11, AND CONDUIT SHALL BE DEBURRED, CLEANED, CAPPED, CONDUIT STUB-OUTS, JUNCTION BOXES, AND OUTLETS SHALL BE SUITABLY LABELED FOR IDENTIFICATION OF FUNCTION, J-BOX #, AND/OR CONDUIT NUMBER.
- E.C. TO PROVIDE BLANK COVER PLATES FOR ALL JUNCTION BOXES.
- E.C. SHALL INSTALL INTERMEDIATE PULL BOXES IN CONDUITS FOR EVERY 180° TOTAL OF BENDS.
- E.C. SHALL INSTALL INTERMEDIATE PULL BOXES IN CONDUITS FOR EVERY 100' RUNNING FEET OF CONDUIT.
- INTERMEDIATE PULL BOXES SHALL BE 12"x12"x4" MINIMUM IF ANY CONDUIT ENTRY IS 1-1/4" OR LARGER
- INTERMEDIATE PULL BOXES SHALL BE 4-1/16" SQUARE X 3-1/2" DEEP IF ALL CONDUIT ENTRIES ARE 1" OR LESS.
- ALL 120V VOLT WIRE, DEVICES, AND CONNECTIONS BY E.C.
- ALL LOW VOLTAGE AV SYSTEM DEVICES, AND CONNECTIONS BY AV SYSTEM (SUB) CONTRACTOR.
- ALL GANG BOXES SHALL BE 3-1/2" DEEP, MINIMUM. SINGLE PIECE CONSTRUCTION, MODULAR BOXES ARE NOT ACCEPTABLE.
- FLUSH OR RECESS MOUNTED 1 & 2 GANG BOXES SHALL BE 4-1/16" SQUARE X 3-1/2" DEEP BOX WITH APPROPRIATE PLASTER RING EXTENSION U.O.N.
- PROVIDE ALL CONDUIT, J-BOXES, NEMA OR CUSTOM ENCLOSURES, FLOOR BOXES, LOUDSPEAKER ENCLOSURES, POWER CIRCUITS, POWER WIRE AND POWER CONNECTIONS UNDER THIS SECTION. DEVICE PLATES AND CONNECTOR PANELS SHALL BE PROVIDED UNDER DIVISION 11.
- ALL BOXES AND CONDUIT IN WALLS AND CEILINGS SHALL BE FLUSH MOUNTED OR CONCEALED UNLESS OTHERWISE NOTED
- SUPPORT ALL LOUDSPEAKER ENCLOSURES FROM STRUCTURE RATHER THAN FROM CEILING.
- ALL WIRING SHALL BE IN CONDUIT UNLESS OTHERWISE NOTED. ALL DEVICES CONNECTED WITH MINIMUM 5/16" C.
- REFER TO ARCHITECTURAL ELEVATIONS AND CEILING PLANS FOR EXACT PLACEMENT OF FINISHES WITH DESIGN ARCHITECT.
- FLOOR PLANS ARE FINAL AUTHORITY OF DEVICE QUANTITIES WHICH ARE SUBJECT TO REVISION PROVIDING PROPER NOTICE.
- WHERE NO BACKBOX IS REQUIRED PLEASE REFERENCE THE MANUFACTURER'S INSTALLATION DETAIL FOR ROUGH-IN AND CONDUIT TERMINATION.
- WHERE EXACT DIMENSIONS ARE NOT CALLED OUT, THE LOCATION OF EQUIPMENT, JUNCTION BOXES, OUTLETS, WIRE WAYS, PANELS, ETC., ARE TO BE IDENTIFIED ON COORDINATION DRAWINGS FOR REVIEW ACCORDING TO PROJECT GENERAL CONDITIONS.
- PROVIDE TEMPORARY LABELING DESCRIBING BOXES.
- CONCEAL CONDUIT CONNECTIONS TO JUNCTION BOXES MOUNTED IN PUBLIC AREAS WHERE BOXES ARE SURFACE MOUNTED. CONDUIT SHALL ENTER FROM THE REAR OF THE BOX.
- REFER TO FLOOR PLANS AND CONDUIT RISER DIAGRAMS FOR CONDUIT SIZING AND INTERCONNECTION OF VARIOUS DEVICES.
- CONSTANT VOLTAGE LOUDSPEAKER CABLE SHALL BE ROUTED IN CONDUIT WHEN EXPOSED.
- INACCESSIBLE OR AS REQUIRED BY SITE CONDITIONS.
- CONDUIT RUN IN SLABS SHALL HAVE A PULL BOX LOCATED FOR EACH 90 DEGREE BEND.
- FOR EVERY 100 FEET OF STRAIGHT EMPTY CONDUIT, THERE SHALL BE A MINIMUM OF ONE PULL BOX, AND AN ACCESSIBLE PULL BOX FOR MORE THAN TWO 90 DEGREE BENDS IN A CONDUIT RUN.
- THE DRAWINGS INDICATE ONE ROUTING METHOD FOR THE CONDUITS. MINOR CHANGES MAY BE MADE TO CONDUIT SIZING TO ACCOMMODATE SITE CONDITIONS OR SIMPLY INSTALLATION AS LONG AS INSTALLER AND ARCHITECT APPROVE THE COORDINATION DRAWINGS SUBMITTED FOR REVIEW.
- E.C. TO PROVIDE CABLE PROTECTION BUSHINGS ON ALL BOXES AND CONDUIT STUB-OUTS
- POWER JUNCTION BOX SURFACE MOUNT AT 60" A.F.F. PROVIDE 3/4" DIA. CIRCUITS WITH DEGRADED NEUTRALS AND OVERSIZED GROUND BACK TO PANEL. AV- LEAVE CIRCUIT TAIL AT 20" LENGTH FOR TERMINATION TO "AV", "TV", "TR" TYPE RACKS
- ROUTING USE AS INDICATED ON DRAWINGS. COORDINATE EXACT LOCATIONS AND MOUNTING WITH ARCHITECT.
- PROTECTION SCREEN BACKBOX PROVIDED BY AV AND INSTALLED BY DIVISION 16. PROVIDE GANG PANEL, SCREENS TO BE CONTROLLED BY AV.
- LV CONTRACTOR TO PULL, TERMINATE, AND TEST ALL RISER AND DISTRIBUTION CABLING INCLUDING FIBER, AND NETWORK CATEGORIES CABLES.

**RESPONSIBILITY SCHEDULE**

Supplied by:	Installed by:
E.C.	E.C.
T/D.C.	T/D.C.
CLIENT	AV C.
E.C.	E.C.
T/D.C.	T/D.C.
CLIENT	AV C.
N/A	N/A

**CEILING MOUNTED EQUIPMENT**

- EQUIPMENT HARD POINTS.
- PROTECTION SCREENS.
- PROJECTOR/DIR SP. AV MOUNTS.
- PROJECTOR/DIR SP. AV.
- SPEAKER HARDPOINTS & BACKBOX.
- CEILING MICROPHONES.

**WALL MOUNTED EQUIPMENT**

- ALL SPECIFIED BLOCKING.
- FLAT PANEL DISPLAYS.
- PROGRAM SPEAKERS.
- PROGRAMS.
- PROTECTION SCREENS.

**ELECTRICAL (FOR AV USE)**

- ALL AV ELECTRICAL OUTLETS AND JUNCTION BOXES.
- AV ELECTRICAL CONDUITS & PULL STRINGS.
- FLOOR BOX AND ACCESSORIES.
- AV LOW VOLTAGE CABLES.
- ALL AV CONNECTORS.
- ALL AV WALL PLATES.

**VOICE & DATA NETWORK (FOR AV USE)**

- ALL TELECOMMUNICATION PLATES.
- IP NETWORK CONFIGURATION FOR AV CONTROL.
- IP NETWORK CONFIGURATION FOR VIDEO CONFERENCEING.
- VLAN/SPAN CONFIGURATION FOR AUDIO CONFERENCEING.
- POTENTIALS FOR TELEPHONE SERVICE & TERMINATION.
- WIRELESS ACCESS POINT FOR AV.
- ALL COAX RF PLATES/CABLE CONNECTIONS.

**LIGHTING DIMMING SYSTEMS**

- LIGHTING DIMMING EQUIPMENT.
- LIGHTING DIMMING LVC FOR AV INTERFACE.
- LIGHTING DIMMING LVC PROGRAMMED.

**MOTORIZED DIMMERS/SHADES**

- DRAPER/SHADE MOTOR.
- DRAPER/SHADE MOTOR LVC.
- PERMANENT FINISHINGS
- MIL/WORKTABLE PENETRATIONS & MODIFICATIONS.
- CREDENTIAL VENTILATION.
- EQUIPMENT RACKS FOR MIL/WORK.
- AV EQUIPMENT RACKS

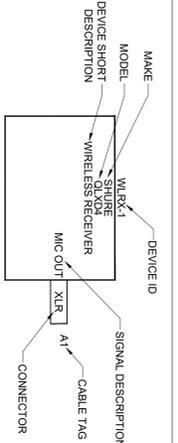
**CABLE SCHEDULE**

WIRE #	WIRE #	SIGNAL TYPE	WIRE TYPE	WIRE MAKE/MODEL	WIRE OD
A	LINE & MIC LEVEL ANALOG AUDIO	222 SH, 224 SH			
S	70V, 80 SPEAKER - MID LONG, XL LENGTH/ LOW, MID-RANGE, HIGH OUTPUT	182, 182, 142, 122, 102			
V	BASE BAND DIGITAL VIDEO / ANALOG VIDEO	HDMI DP			
S01	HD-S01	USB	RG59, RG6		
N	NETWORK LAN, CONTROL, VOIP	CAT6			
UTP	UNSHIELDED TWISTED PAIR	UNSHIELDED CAT6			
STP	STP / ORESTRON DMX EXTENSION XTP / EXTENSION D/T	SHIELDED CAT6			
F	MULTIMODE FIBER	MULTIMODE FIBER			
C	CONTROL - SERIAL, IR, RELAY, IO	222 SH, 224 SH, 226 SH			
CATV	750 COAX - CATV/SATELLITE	RG4U			
ANT	500 COAX - ANTENNA	RG6			
P	POWER - DC	182, 162			
IEG	POWER - AC				

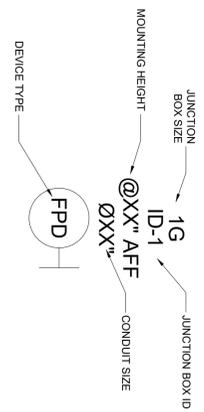
**WIRE LABEL CONVENTION**

THE WIRE ID NUMBER ADHERES TO THE FOLLOWING CONVENTION:  
 1 SERIES = INTERNAL TO AV EQUIPMENT RACK  
 1000 SERIES = EXTERNAL TO EQUIPMENT RACK  
**SXXXX**  
 WHERE:  
 S = INDICATES SIGNAL TYPE (REFER TO THE CABLE SCHEDULE).  
 XXXX = UNIQUE INCREMENTAL NUMERIC VALUE.

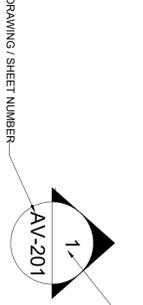
**DEVICE BLOCK**



**AV JUNCTION BOX**



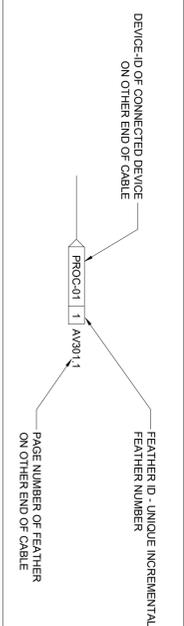
**DRAWING REFERENCE SYMBOL**



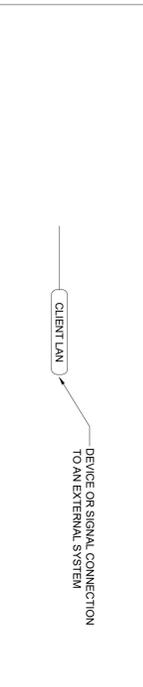
**CONNECTORS**

CONNECTORS	CONNECTORS
	HDMI
	DP DISPLAY PORT
	MDP MINI DISPLAY PORT
	DVI
	HD15 HD D-SUB
	F F-TYPE
	BNC BNC
	KDN MINI DIN (K = Pins)
	KDN DIN (K = Pins)
	DB9 9 PIN D-SUB
	USB USB TYPE A
	USB USB TYPE B
	microB USB TYPE MICRO-B
	miniB USB TYPE MINI B
	USB USB TYPE C
	LT LIGHTNING
	LC LC FIBER
	RJ11 RJ11
	RJ45 SHIELDED/UNSHIELDED RJ45
	SFP SMALL FORM-FACTOR PLUG
	3.5MM 1/4" TRS/TRRS
	XLR XLR
	RCA RCA
	TOS TOSLINK
	NLX SPEAKER (K = Pins)
	SCREW SCREW
	PAX PHOENIX
	DC DC POWER
	IEC IEC POWER

**LINE DRAWINGS INTERCONNECT FEATHER**



**LINE DRAWINGS EXTERNAL REFERENCE FEATHER**



**AUDIO VISUAL ILLUMINATIONS INC.**



GENERAL INFORMATION	
DRAFTER:	AVDL
DESIGNER:	1
PROJECT MGR:	1
SALES REP:	1
DATE:	11.21.2025
SCALE:	AS INDICATED

NO.	REVISIONS:
0	ISSUED FOR REVIEW
1	ISSUED FOR CONSTRUCTION

DATE:	NO.
11.21.25	0
11.24.25	1



