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LEVEL 3 AUDIOVISUAL

L3AV DRAWING STANDARDS

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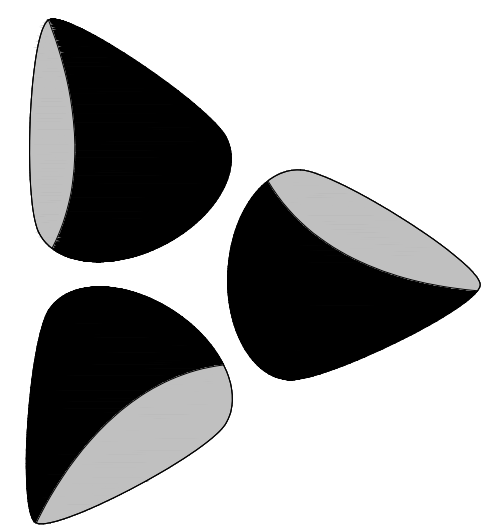
PROJECT MANAGEMENT:

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LEVEL 3
AUDIO VISUAL

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LEVEL 3 AUDIOVISUAL

CLIENT:

L3AV DRAWING STANDARDS

PROJECT NAME:

955 E JAVELINA AVE, STE B106
PHOENIX, AZ
85204

SITE ADDRESS:

[illegible]

ISSUED FOR:

PROJECT NO.:	0000
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SCALE: N/A

DRAWN BY: M. SHERWOOD

APPROVED BY:

BUILDING:

FLOOR:

ROOM:

COVER PAGE

SHEET TITLE

TA000

SHEET NUMBER:

022 LEVEL 3 AUDIO VISUAL

SIGNAL FLOW SYMBOL LEGEND			SIGNAL FLOW DIAGRAM		AV CONNECTORS		AUDIOVISUAL SYMBOL SCHEDULE			TERMS		GENERAL NOTES	
SYMBOL	DESCRIPTION	NOTES			NAME	DESCRIPTION	SYMBOL	DESCRIPTION	NOTES	AFF	ABOVE FINISHED FLOOR	1. THIS SET OF DRAWINGS, WHEN COMPLETE, CONSISTS OF ALL DRAWINGS LISTED BY THE INDEX OF DRAWINGS. THE WORK DESCRIBED BY THE DRAWINGS OF ANY ONE DISCIPLINE MAY BE AFFECTED BY THE WORK DESCRIBED ON DRAWINGS OF ANOTHER DISCIPLINE AND MAY REQUIRE REFERENCE TO DRAWINGS OF ANOTHER DISCIPLINE. PARTIAL SETS OF DRAWINGS ARE INCOMPLETE. DO NOT DISTRIBUTE OR UTILIZE PARTIAL SETS OF DRAWINGS.	
	CABLE LABEL	DESIGNATES CABLE TYPE & NUMBER			1/4TRS	1/4" PHONE CONNECTOR, 3 CONTACT (TIP/RING/SLEEVE)		CRENENZA EQUIPMENT RACK	# = RACK UNITS	AFG	ABOVE FINISHED GRADE	2. THE LOCATIONS AND MOUNTING HEIGHT OF DEVICES SHOWN ON THESE PLANS ARE DIAGRAMMATIC TO COMMUNICATE QUANTITIES AND GENERAL LOCATIONS. DO NOT SCALE LOCATIONS FROM THESE PLANS. REFER TO ARCHITECTURAL DIMENSIONED PLANS AND ELEVATIONS	
	OFF PAGE RECEIVING FLAG	TOP LINE = TRANSMITTING SYS-ID BOTTOM LINE = CONNECTION			1/4TS	1/4" PHONE CONNECTOR, 2 CONTACT (TIP/SLEEVE)		FULL SIZE EQUIPMENT RACK	# = RACK UNITS	ASC	ABOVE SUSPENDED CEILING	3. VERIFY THE EXACT LOCATIONS OF ALL RECEPTACLES, TELEPHONE, DATA, AUDIOVISUAL AND OTHER SPECIAL SYSTEMS OUTLETS WITH ARCHITECT PRIOR TO ROUGH-IN.	
	ON PAGE RECEIVING FLAG	TOP LINE = TRANSMITTING SYS-ID BOTTOM LINE = CONNECTION			2.5TRS	2.5mm SUB MINI PHONE CONNECTOR, 2 CONTACT		JUNCTION BOX FOR AV	TOP # = INSTALL HEIGHT AFF BOTTOM # = GANG SIZE	BTU	BRITISH THERMAL UNIT	4. ELECTRICAL AND LOW VOLTAGE CABLING CONTRACTORS SHALL CONSULT WITH THE OWNER/TENANT AND/OR THE ARCHITECT PRIOR TO ROUGH-IN TO DETERMINE IF ANY CHANGES TO EQUIPMENT LOCATIONS AND/OR QUANTITIES HAVE BEEN MADE SINCE THE CONTRACT DOCUMENTS WERE PREPARED.	
	OFF PAGE TRANSMITTING FLAG	TOP LINE = RECEIVING SYS-ID BOTTOM LINE = CONNECTION			2.5TS	2.5mm SUB MINI PHONE CONNECTOR, 3 CONTACT		CEILING JUNCTION BOX FOR AV	# = GANG SIZE	CLG	CEILING	5. FINAL QUANTITIES AND LOCATIONS ARE SUBJECT TO CHANGE AND MUST BE VERIFIED WITH THE GENERAL CONTRACTOR BEFORE ROUGH-IN.	
	ON PAGE TRANSMITTING FLAG	TOP LINE = RECEIVING SYS-ID BOTTOM LINE = CONNECTION			3.5TRS	3.5mm MINI PHONE CONNECTOR, 2 CONTACT		FLOOR BOX FOR AV	MAKE/MODEL AS NOTED	CONSTR	CONSTRUCTION	6. DO NOT SCALE FROM DRAWINGS. VERIFY DIMENSIONS IN FIELD PRIOR TO COMMENCEMENT OF WORK.	
	INPUT NOTE	1 OR 2 LINES OF TEXT			3.5TS	3.5mm MINI PHONE CONNECTOR, 2 CONTACT		WEB CAMERA	MAKE/MODEL AS NOTED	CONSULT	CONSULTANT	7. ALL CABLING, PATHWAY, GROUND BUSES AND TERMINATION HARDWARE, RACKS AND CABINETS SHALL BE PROVIDED WITH IDENTIFICATION (LABELING) IN ACCORDANCE WITH TIA/EIA 606.	
	OUTPUT NOTE	1 OR 2 LINES OF TEXT			BNC	BNC CONNECTOR FOR COAXIAL CABLE, 2 CONTACT		LIGHTING SYSTEM INTERFACE	MAKE/MODEL AS NOTED	CNTOR	CONTRACTOR	8. ALL FIBER OPTIC CABLE SHALL BE INSTALLED IN INNERDUCT.	
	SIGNAL/WIRE NOTE	1 OR 2 LINES OF TEXT			DB9	D SUB CONNECTOR, 9 PIN (SERIAL)		WALL MOUNT DATA OUTLET	TOP # = INSTALL HEIGHT AFF BOTTOM # = PORTS	COORD	COORDINATE	9. EQUIPMENT LOCATION AND DUCT/PATHWAY ROUTING INDICATED ON DRAWINGS IS FOR GENERAL REFERENCE ONLY. CONTRACTOR SHALL FIELD COORDINATE AND VERIFY EXACT ROUTING AS REQUIRED.	
	WIRE ADAPTER SYMBOL	# = SCHEDULE REFERENCE FOR ADAPTER TYPE			DB15	D SUB CONNECTOR, 15 PIN (GAME PORT)		CEILING MOUNT DATA OUTLET	# = PORTS	EQUIP	EQUIPMENT	10. ANY CONDUIT OR PATHWAY WITH MORE THAN 180 DEGREES ACCUMULATIVE BEND REQUIRES A PULLBOX FOR EVERY 180 DEGREES OF BEND.	
	WIRE	SOLID LINE			DIN4	MINI DIN CONNECTOR, 4 PIN (S-VIDEO)		FLOOR MOUNT DATA OUTLET	# = PORTS	FLMT	FLUSH MOUNT	11. A PULLBOX MAY NOT BE USED IN PLACE OF A CONDUIT OR PATHWAY BEND.	
	ALTERNATE WIRE CONNECTION	DASHED LINE			DIN8	MINI DIN CONNECTOR, 8 PIN (VISCA)		CEILING MOUNT DATA OUTLET	# = PORTS	FURN	FURNITURE	12. A PULLBOX IS REQUIRED FOR ANY CONDUIT OR PATHWAY THAT IS MORE THAN 100 FEET OR 30 METERS IN A CONTINUOUS LENGTH.	
CABLE LABEL STRUCTURE					DP	DISPLAY PORT CONNECTOR		WALL MOUNT CATV OUTLET	TOP # = INSTALL HEIGHT AFF BOTTOM # = GANG SIZE	J-BOX	JUNCTION BOX	13. ALL EMPTY CONDUIT AND RACEWAYS SHALL HAVE A 1/8" (4mm) PULL-STRING WITH A TENSILE STRENGTH OF 200 POUNDS (90 KG). CAP OPEN ENDS NOT TERMINATED IN A JUNCTION BOX.	
					DVI-A	DIGITAL VISUAL INTERFACE (ANALOG ONLY)		CEILING MOUNT CATV OUTLET	# = GANG SIZE	MIC	MICROPHONE	14. AUDIO CABLES, CONTROL CABLES, VIDEO CABLES AND SPEAKER CABLES SHALL BE ROUTED IN SEPARATE GALVANIZED STEEL CONDUITS.	
					DVI-D	DIGITAL VISUAL INTERFACE (DIGITAL ONLY, SINGLE OR DUAL LINK)		WALL MOUNT DUPLEX POWER RECEPTACLE	# = INSTALL HEIGHT AFF 120V 20A	NIC	NOT IN SCOPE	15. ALL AUDIOVISUAL CABLES SHALL BE CONTINUOUS FROM SOURCE TO DESTINATION WITHOUT SPLICES.	
					DVI-I	DIGITAL VIDEO INTERFACE (DIGITAL AND ANALOG)		WALL MOUNT DUPLEX POWER RECEPTACLE	# = INSTALL HEIGHT AFF 120V 20A	NTS	NOT TO SCALE	16. THERE SHALL BE A MINIMUM OF 12" (300mm) UNOBSTRUCTED ACCESS FROM THE TOP OF ALL AUDIOVISUAL SYSTEM RACKS OR CABINET ASSEMBLIES TO THE BOTTOM OF ALL OVERHEAD CABLE TRAY ASSEMBLIES AND 12" (300mm) FROM THE TOP OF ALL CABLE TRAY ASSEMBLIES TO THE FACILITY FINISHED CEILING, UNLESS OTHERWISE NOTED.	
					F	HIGH DENSITY D SUB CONNECTOR, 15 PIN (VGA)		WALL MOUNT QUAD POWER RECEPTACLE	# = INSTALL HEIGHT AFF 120V 20A 5-20R	OFE	OWNER FURNISHED EQUIPMENT	17. AUDIOVISUAL SYSTEM RACKS AND CABINETS SHALL HAVE A MINIMUM OF 36" (1m) UNOBSTRUCTED CLEAR SPACE FOR ACCESS IN FRONT AND REAR. WALL MOUNTED AUDIOVISUAL SYSTEM RACK AND CABINET ASSEMBLIES REQUIRE FRONT ACCESS ONLY, UNLESS OTHERWISE NOTED.	
					HD15	HIGH DEFINITION MULTIMEDIA INTERFACE		WALL MOUNT TWIST LOCK POWER RECEPTACLE	# = INSTALL HEIGHT AFF 120V 20A L5-30P	OFOI	OWNER FURNISHED/OWNER INSTALLED	18. ALL AUDIOVISUAL SYSTEM MOUNTING HEIGHTS ARE MEANT FOR INFORMATIONAL AND COORDINATION PURPOSES ONLY AND SHOULD BE VERIFIED IN THE FIELD.	
					HDMI	MICRO HIGH DEFINITION MULTIMEDIA INTERFACE		FLOOR MOUNT DUPLEX POWER RECEPTACLE	120V 20A	OFCI	OWNER FURNISHED/CONTRACTOR INSTALLED	19. ALL AUDIOVISUAL SYSTEM DEVICE PLATE FINISHES AND TYPES ARE TO BE VERIFIED PRIOR TO ORDER.	
					MCHDMI	MINI HIGH DEFINITION MULTIMEDIA INTERFACE, TYPE D		FLOOR MOUNT QUAD POWER RECEPTACLE	120V 20A 5-20R	PBO	PROVIDED BY OTHERS	20. ALL AUDIOVISUAL SYSTEM RACK AND CABINET ASSEMBLIES REQUIRE FRONT ACCESS ONLY, UNLESS OTHERWISE NOTED.	
					MNHDMI	MINI HIGH DEFINITION MULTIMEDIA INTERFACE, TYPE C		CEILING MOUNT DUPLEX POWER RECEPTACLE	120V 20A	QTY	QUANTITY	21. ALL CONDUIT, BACK BOXES, AND AC POWER REQUIREMENTS SHALL BE PROVIDED THE ELECTRICAL CONTRACTOR.	
					IR	INFRARED CONNECTION		CEILING MOUNT QUAD POWER RECEPTACLE	120V 20A	RECPT	RECEPTACLE	22. VIDEO CONFERENCING LIGHTING SHOULD BE 55 FC AT 45" AND DIRECTED TO CAMERA.	
					MP	MULTI-PIN CONNECTOR		CEILING MOUNT QUAD POWER RECEPTACLE	120V 20A	RCP	REFLECTED CEILING PLAN	23. THE AV SYSTEM SHOULD RECEIVE A SINGLE PHASE FEED THAT IS PROPERLY GROUNDED.	
					PHX	CAPTIVE SCREW TERMINAL CONNECTOR (PHOENIX)		CEILING MOUNT QUAD POWER RECEPTACLE	120V 20A	REV	REVISION	24. ALL POWER & DATA CONNECTIONS TO EXISTING LOCAL AREA NETWORK SHALL BE PROVIDED BY OTHERS UNLESS OTHERWISE NOTED.	
					RCA	RCA CONNECTOR, 2 CONTACT		ELECTRIC PROJECTION SCREEN MOTOR POWER FEED	120V 20A WITH LVC (LOW VOLTAGE CONTROLLER)	RM	ROOM	25. NOTES ON INDIVIDUAL DRAWINGS SHEETS SUPERCEDE THE GENERAL REQUIREMENTS.	
					RJ11	MODULAR JACK, 6 POSITION-4 CONDUCTOR (TELEPHONE)		CEILING RECESSED SPEAKER	MAKE/MODEL AS NOTED	TBD	TO BE DETERMINED		
					NL2	SPEAKON CONNECTOR, 2 POLE		AV FLOOR POKE THROUGH	TOP # = CONDUIT SIZE BOTTOM # = CONDUIT QTY	VIF	VERIFY IN FIELD		
					NL4	SPEAKON CONNECTOR, 4 POLE	SYMBOL STRUCTURE						
					NL8	SPEAKON CONNECTOR, 8 POLE							
					RJ12	MODULAR JACK, 6 POSITION-6 CONDUCTOR (TELEPHONE)	REFERENCE SYMBOL LEGEND						
					RJ45	MODULAR JACK, 8 POSITION-8 CONDUCTOR (DATA)							
					SDR	SOLDER CONNECTION							
					SST	SPEAKER SPRING TERMINAL CONNECTOR							
					TB	TERMINAL BLOCK CONNECTOR							
					TNC	THREADED BNC CONNECTOR FOR COAXIAL CABLE, 2 CONTACT							
					USB-A	UNIVERSAL SERIAL BUS, TYPE A							
					USB-B	UNIVERSAL SERIAL BUS, TYPE B							
					MCUSB-A	MICRO UNIVERSAL SERIAL BUS, TYPE A							
					MCUSB-B	MICRO UNIVERSAL SERIAL BUS, TYPE B							
					MNUSB-A	MINI UNIVERSAL SERIAL BUS, TYPE A							
					MNUSB-B	MINI UNIVERSAL SERIAL BUS, TYPE B							
					XLR3	XLR CONNECTOR, 3 CONTACT (TIP/RING/SLEEVE)							
					XLR4	XLR CONNECTOR, 4 CONTACT (INTERCOM)							
					XLR5	XLR CONNECTOR, 5 CONTACT (DMX512 LIGHTING)							
					XLR6	XLR CONNECTOR,6 CONTACT (DUAL CHANNEL INTERCOM)							
					XLR7	XLR CONNECTOR, 7 CONTACT (TUBE CONDESER MIC)							
FIBER OPTIC CONNECTORS													
NAME	DESCRIPTION												
FC	FIBER OPTIC CONNECTOR, FC STYLE												
LC-D	SMALL FORM FACTOR FIBER OPTIC CONNECTOR, LC DUPLEX STYLE												
LC-S	SMALL FORM FACTOR FIBER OPTIC CONNECTOR, LC SIMPLEX STYLE												
SC-D	FIBER OPTIC CONNECTOR, SC DUPLEX STYLE												
SC-S	FIBER OPTIC CONNECTOR, SC SIMPLEX STYLE												
ST	FIBER OPTIC CONNECTOR, ST STYLE												
TL	FIBER OPTIC CONNECTOR, TOSLINK STYLE (DIGITAL AUDIO)												

GENERAL NOTES		
CLIENT:	LEVEL 3 AUDIOVISUAL	
L3AV DRAWING STANDARDS		
PROJECT NAME:		
955 E JAVELINA AVE, STE B106 PHOENIX, AZ 85204		
SITE ADDRESS:		
NO.:	DATE	DESCRIPTION
0	REVIEW	FOR REVIEW

Unless noted otherwise, everything shown on this page is considered standard L3AV practice and should be included on all TA1 drawings.

Facility backgrounds should be placed on the 'TA-XREF' layer and should plot as a medium grey color (Color 8 in the Layer palette)

Rooms should be identified with a unique and descriptive name, ideally with the room number and name of the room, or room number and type of room (Small Conf. Room, Divide/Combine Room, Training Room, etc.) Place on 'TA-ANNO-NOTE' or 'TA-KEY-NOTE' layer.



LEVEL 3 AUDIOVISUAL

CLIENT:

L3AV DRAWING STANDARDS

PROJECT NAME:

955 E JAVELINA AVE, STE B106
PHOENIX, AZ
85204

SITE ADDRESS:

[illegible]

ISSUED FOR:

PROJECT NO.: 0000

SCALE: NTS

DRAWN BY: M. SHERWOOD

APPROVED BY:

BUILDING: GCRB

FLOOR: 01

ROOM: N/A

KEY PLAN - LEVEL 1

SHEET TITLE

TA101.0

SHEET NUMBER:

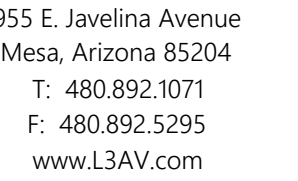
2022 LEVEL 3 AUDIO VISUAL

1

KEY PLAN

LEVEL 01
Scale: 1/8" = 1'-0"

PLOT DATE: 1/18/2023 2:04 PM



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022 LEVEL 3 AUDIO VISUAL

Unless noted otherwise, everything shown on this page is considered standard L3AV practice and should be included on all TA2 drawings.

and should plot as a medium grey color (Color 8 in the Layer palette)

All AV equipment on TA2 pages shall have a unique SYS-ID attached to the keynote identifier.

RESERVED FOR:
FLEX SPACES (120 & 140)

AV EQUIPMENT RACK FOR:
MULTI PURPOSE ROOM (130)

- Use of call out symbols is required for drawing sets with multiple room types.
- Call out symbols should be dynamic (ie. can be clicked on) and take you to the page that they reference.

- Cross-referencing all pages associated with a room type isn't currently an L3AV standard, but should be considered best practice if time allows during drafting. Note that these callouts (which have been shaded in green) are also dynamic and can be clicked on to take you to the relevant page.

General notes shall be 'universal' and not apply to any specific piece of equipment. Callouts on the drawing are not required for General Notes. **This applies to ALL page types.**

GENERAL NOTES

- A. ALL POWER AND DATA TO BE PROVIDED BY OTHERS.
- B. AV COMPONENTS SHOULD RECEIVE A SINGLE PHASE FEED THAT IS PROPERLY GROUNDED.
- C. ALL BOXES AND CONDUITS DEPICTED OR NOTED SHALL BE PROVIDED BY OTHERS.
- D. CONDUITS DEPICTED OR NOTED SHALL BE FURNISHED DE-BURRED, BUSHED, TAGGED, AND HAVE PULL STRING INSTALLED AND ARE FOR THE SOLE USE OF THE SYSTEM NOTED.
- E. AN ACCESSIBLE PULL BOX SHALL BE INSTALLED WITHIN ANY CONDUIT RUN AFTER EVERY TWO (2) 90° TURNS AND/OR EVERY LINEAR 100'.
- F. SEE TA300 & 400 SERIES FOR ADDITIONAL DETAILS NOT DEPICTED HERE.

SHEET KEYNOTES

1. VIDEO WALL MADE UP OF 55" BEZEL-LESS LCD DISPLAYS WITH TRIM KIT, BY AV
2. WALL MOUNT PTZ CAMERA, BY AV, 4"SQ DEEP J-BOX WITH 2-GANG MUD-RING MOUNTED FLUSH WITH FINISHED WALL SURFACE, RESERVED FOR AV, BY OTHERS
3. CEILING MOUNT MICROPHONE ARRAY, BY AV, MOUNTED WITH; SHURE A910-HCM HARD CEILING MOUNT, PROVIDED BY AV, INSTALLED BY OTHERS, 4"SQ J-BOX MOUNTED TO DECK, RESERVED FOR AV, BY OTHERS
4. PENDANT SUBWOOFER HUNG FLUSH WITH BOTTOM OF ACOUSTICAL WOOD CEILING WITHIN EXPOSED STRUCTURE SECTION BETWEEN WALL & CEILING, BY AV, 4"SQ J-BOX MOUNTED TO DECK, RESERVED FOR AV, BY OTHERS
- 5A. PENDANT SUBWOOFER HUNG FLUSH WITH BOTTOM OF ACOUSTICAL WOOD CEILING WITHIN EXPOSED STRUCTURE SECTION BETWEEN WALL & CEILING, BY AV, 4"SQ J-BOX MOUNTED TO DECK, RESERVED FOR AV, BY OTHERS
- 5B. PENDANT SPEAKER HUNG FLUSH WITH BOTTOM OF ACOUSTICAL WOOD CEILING WITHIN LIGHTING OPENING, BY AV, 4"SQ J-BOX MOUNTED TO DECK, RESERVED FOR AV, BY OTHERS



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CLIENT:

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PROJECT NAME:

955 E JAVELINA AVE, STE B106
PHOENIX, AZ
85204

SITE ADDRESS:

[illegible]

ISSUED FOR:

PROJECT NO.:	0000
--------------	------

SCALE: 1/8"=1'

DRAWN BY: M. SHERWOOD

APPROVED BY:

BUILDING: GCRB

FLOOR: 01

ROOM: MULTI PURPOSE ROOM (130)

ENLARGED VIEWS

SHEET TITLE

TA201.2

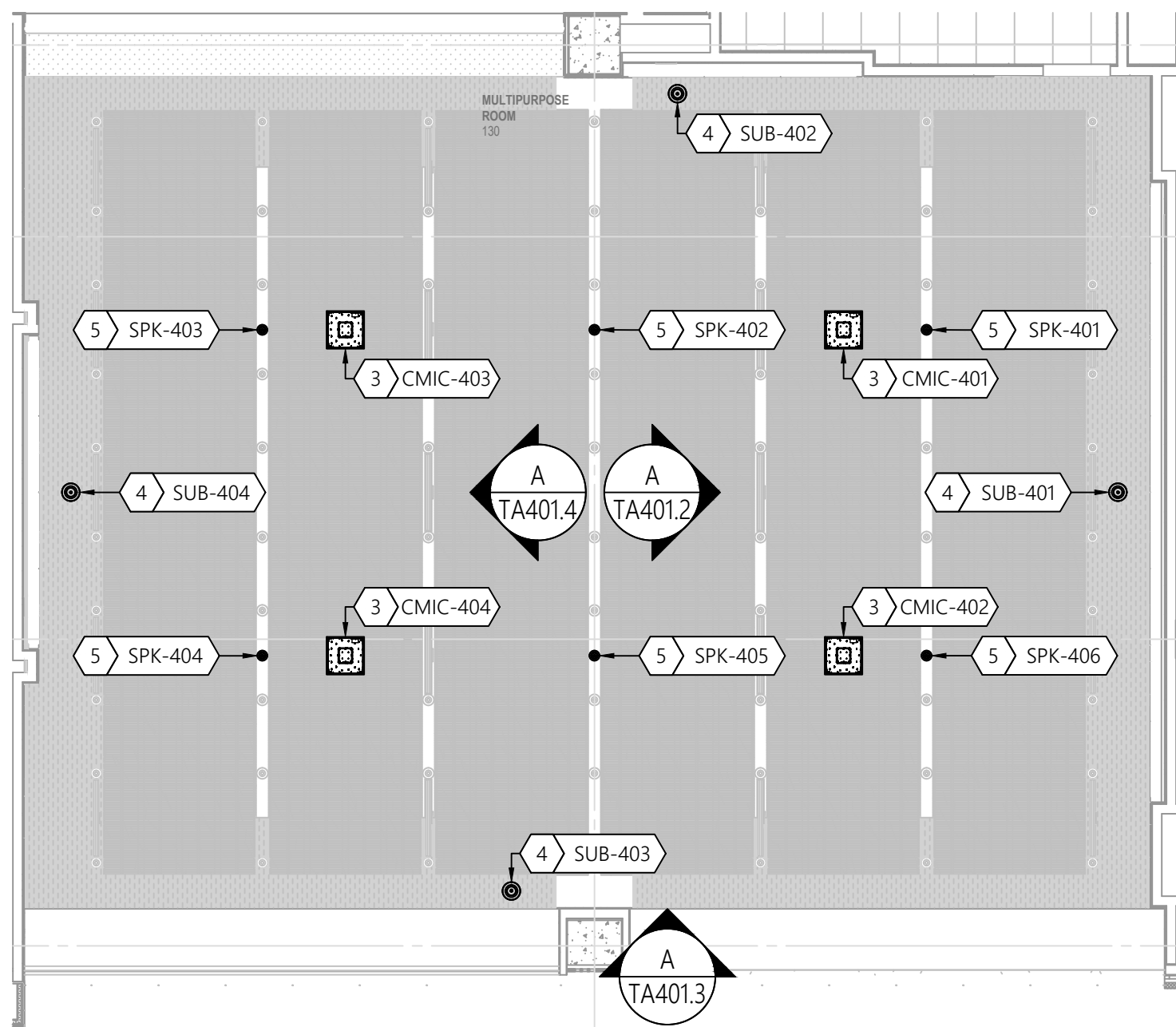
SHEET NUMBER:

AV EQUIPMENT LAYOUT - PLAN VIEW

MULTI PURPOSE ROOM (130)
SCALE: 1/8"=1'-0"

- Each view should have a unique identifier.
- Use of letters or numbers are both ok as long as you stick with one or the other.

The Drawing Title block is dynamic and can display 1 or 2 lines below the main title. Use 2 lines whenever you need to indicate additional room information (room number, room type, etc.)



6 AV EQUIPMENT LAYOUT - RCP VIEW

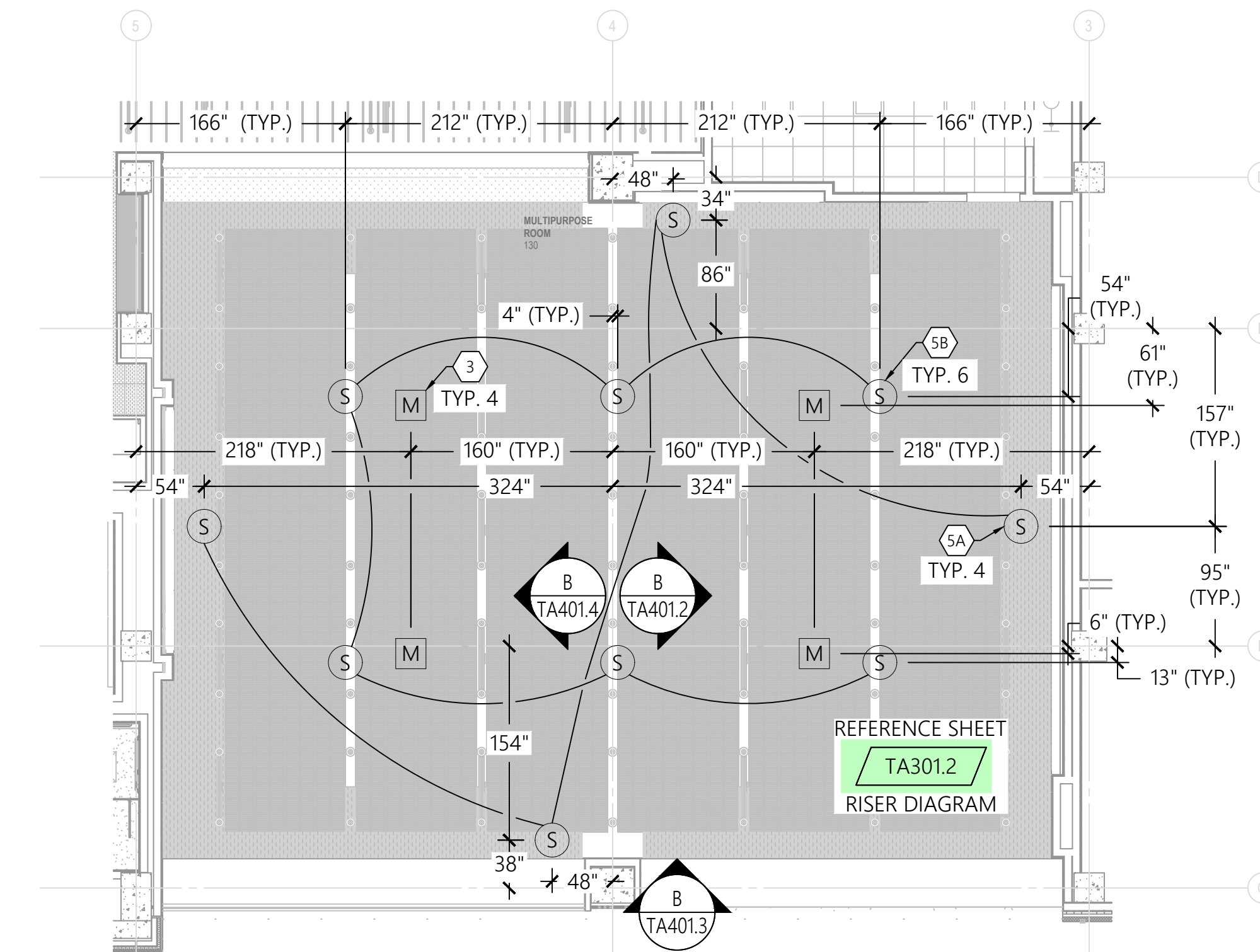
MULTI PURPOSE ROOM (130)
SCALE: 1/8"=1'-0"

PLOT DATE: 1/18/2023 2:06 PM

AV ELECTRICAL & FACILITY REQUIREMENTS - PLAN VIEW

MULTI PURPOSE ROOM (130)
SCALE: 1/8"=1'-0"

'INFRASTRUCTURE REQUIREMENTS'
IS ALSO ACCEPTABLE



AV ELECTRICAL & FACILITY REQUIREMENTS - RCP VIEW

MULTI PURPOSE ROOM (130)
SCALE: 1/8"=1'-0"

'INFRASTRUCTURE REQUIREMENTS'
IS ALSO ACCEPTABLE

Unless noted otherwise, everything shown on this page is considered standard L3AV practice and should be included on all TA2 drawings.

Plan view of AV equipment layout for M CONF ROOM 418. The room is rectangular with a grid of 4 by 3. Equipment is located along the walls and in the center. Keynotes include: 1 FPD-902, 2 CAM-901, 3 TP-901, 4 MIC-901, 4 MIC-902, 7 ER-901, and TA704.1. A reference sheet TA304.1 RISER DIAGRAM is shown. The room is labeled M CONF ROOM 418.

A AV EQUIPMENT LAYOUT - PLAN VIEW
M CONF ROOM (418)
SCALE: 3/8"=1'-0"

Adding dimensions on TA2 pages for infrastructure placement is optional since we do not always have accurate facility backgrounds to work with.

Plan view of AV electrical & facility requirements for M CONF ROOM 418. The room is rectangular with a grid of 4 by 3. Equipment is located along the walls and in the center. Keynotes include: 8 AV +66, 10 J +72, 8 AV +66, 9 ER +18, and TA707.1. A reference sheet TA304.1 RISER DIAGRAM is shown. The room is labeled M CONF ROOM 418.

B AV ELECTRICAL & FACILITY REQUIREMENTS - PLAN VIEW
M CONF ROOM (418)
SCALE: 3/8"=1'-0"

Sheet keynotes are used to provide detail on equipment being installed, as well as to provide additional information that is beneficial to the install team or other trades. Best practice is to provide as much detailed information as possible to ensure that equipment is installed correctly and that other trades have all the information they need.

Do not include keynotes for things that do not apply to the page (or room if you have multiple TA2 pages related to the same room). In other words, each page should only have keynotes that are relevant to that page/room.

Every keynote listed should have at least 1 corresponding callout somewhere on the drawing.

This information applies to ALL page types.

RCP view of AV equipment layout for M CONF ROOM 418. The room is rectangular with a grid of 4 by 3. Equipment is located along the walls and in the center. Keynotes include: 6 SPK-902, 5 CMIC-902, 5 CMIC-901, and 6 SPK-901. A reference sheet TA304.1 RISER DIAGRAM is shown. The room is labeled M CONF ROOM 418.

C AV EQUIPMENT LAYOUT - RCP VIEW
M CONF ROOM (418)
SCALE: 3/8"=1'-0"

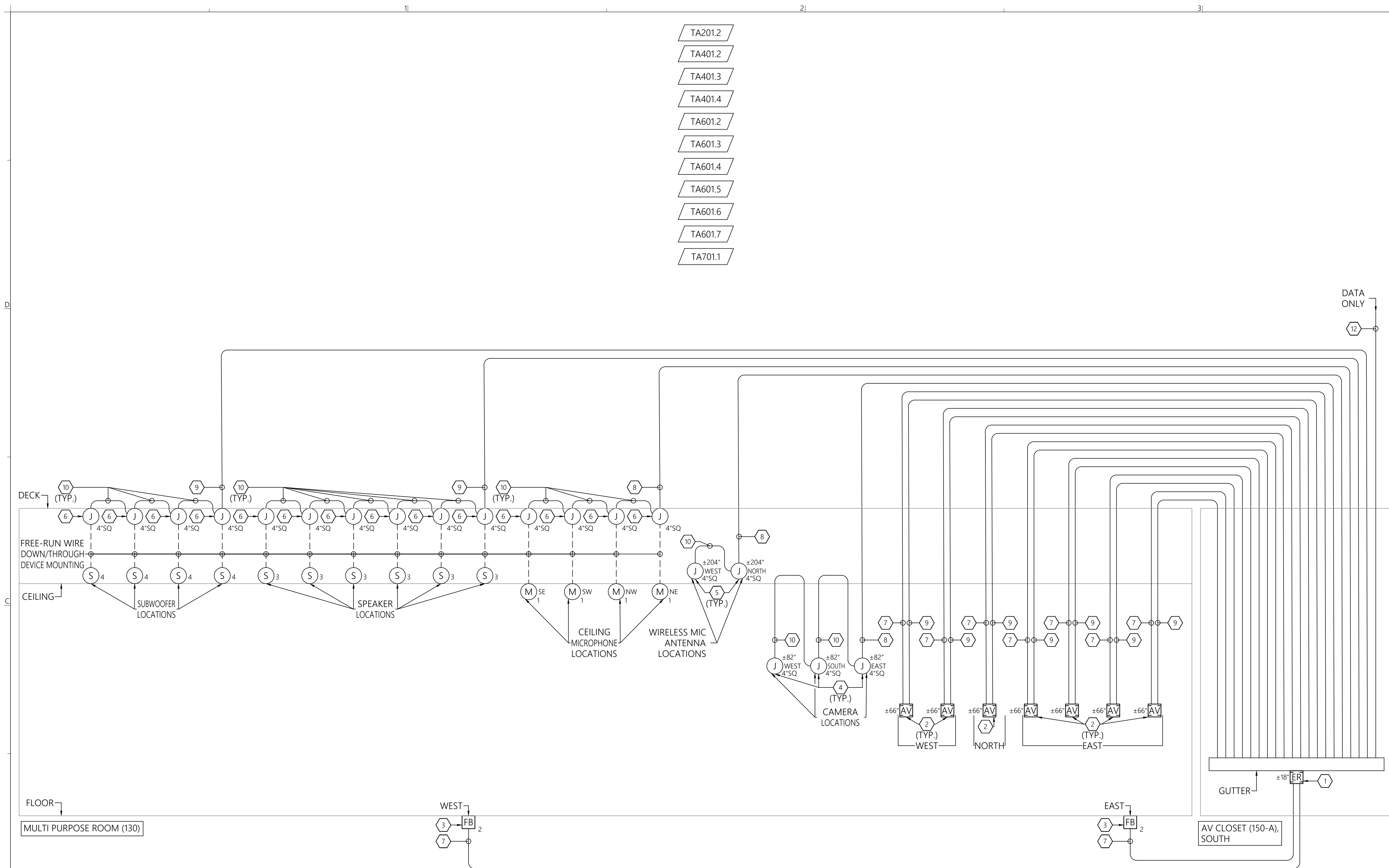
RCP view of AV electrical & facility requirements for M CONF ROOM 418. The room is rectangular with a grid of 4 by 3. Equipment is located along the walls and in the center. Keynotes include: 6 SPK-902, 5 CMIC-902, 5 CMIC-901, and 6 SPK-901. A reference sheet TA304.1 RISER DIAGRAM is shown. The room is labeled M CONF ROOM 418.

Text shall utilize background masks anytime that the text would otherwise be obscured or hard to read.

D AV ELECTRICAL & FACILITY REQUIREMENTS - RCP VIEW
M CONF ROOM (418)
SCALE: 3/8"=1'-0"

GENERAL NOTES	
A.	ALL POWER AND DATA TO BE PROVIDED BY OTHERS.
B.	AV COMPONENTS SHOULD RECEIVE A SINGLE PHASE FEED THAT IS PROPERLY GROUNDED.
C.	ALL BOXES AND CONDUITS DEPICTED OR NOTED SHALL BE PROVIDED BY OTHERS.
D.	CONDUITS DEPICTED OR NOTED SHALL BE FURNISHED DE-BURRED, BUSHED, TAGGED, AND HAVE PULL STRING INSTALLED AND ARE FOR THE SOLE USE OF THE SYSTEM NOTED.
E.	AN ACCESSIBLE PULL BOX SHALL BE INSTALLED WITHIN ANY CONDUIT RUN AFTER EVERY TWO (2) 90° TURNS AND/OR EVERY LINEAR 100'.
F.	SEE TA300 & 400 SERIES FOR ADDITIONAL DETAILS NOT DEPICTED HERE.
  SHEET KEYNOTES	
1.	75" 4K UHD 16/7 COMMERCIAL LED DISPLAY, BY AV WITH X-LARGE TILT WALL MOUNT, BY AV,
2.	WALL MOUNT PTZ CAMERA, BY AV
3.	10" TABLE TOP TOUCH PANEL , BY AV, CABLING PASS-THRU IN TABLE BY OTHERS
4.	TABLETOP MICROPHONE ARRAY, BY AV, CABLING PASS-THRU IN TABLE BY OTHERS
5.	FLUSH MOUNT CEILING MICROPHONE ARRAY (WHITEBOARD MIC), BY AV, FLUSH MOUNT KIT PROVIDED BY AV, INSTALLED BY OTHERS IN GYPSUM BOARD CEILING
6.	FLUSH MOUNT 8" PHASE GUIDE 180° DISPERSION CEILING SPEAKER, BY AV, ROUGH IN PAN PROVIDED BY AV, INSTALLED BY OTHERS BEFORE GYPSUM BOARD CEILING
7.	CREDENZA FRAME AV EQUIPMENT RACK, BY AV, MOUNTED WITHIN PROVIDED BY OTHERS. CREDENZA, MIN. REQUIRED CLEAR SPACE WITHIN CREDENZA IS 24-1/2" H X 20" W X 20" D
8.	IN-WALL BOX, PROVIDED AND INSTALLED BY OTHERS (CHIEF, PAC526), POWER PLACED WITHIN 1-GANG KNOCKOUT AVAILABLE ON ANY SIDE OF BOX, BY OTHERS
9.	IN-WALL BOX, PROVIDED AND INSTALLED BY OTHERS (FSR, WB-X3-PLT), BOX MUST BE ACCESSIBLE FROM WITHIN CREDENZA, DEDICATED 15A POWER TERMINATED TO DUPLEX RECEPTACLE AND TWO (2) DATA DROPS CONNECTED TO BUILDING LAN PLACED WITHIN BOX, BY OTHERS, IF REQUIRED BY THE AUTHORITY HAVING JURISDICTION A +5VDC, NORMALLY-CLOSED RELAY FROM THE FIRE ALARM SYSTEM SHALL BE PROVIDED, BY OTHERS, LANDING AT THE AV EQUIPMENT RACK FOR AUDIO SYSTEM MUTE IN THE EVENT OF A FIRE ALARM. THE RELAY WILL BE CONNECTED TO AUDIO LOGIC CONTROL BY AV
10.	4"SQ DEEP J-BOX WITH 2-GANG MUD-RING MOUNTED FLUSH WITH FINISHED WALL SURFACE, RESERVED FOR AV, BY OTHERS





GENERAL NOTES

- A. ALL BOXES AND CONDUITS DEPICTED OR NOTED SHALL BE PROVIDED BY OTHERS.
- B. CONDUITS DEPICTED OR NOTED SHALL BE FURNISHED DE-BURRED, BUSHED, TAGGED, AND HAVE PULL STRING INSTALLED AND ARE FOR THE SOLE USE OF THE SYSTEM NOTED.
- C. AN ACCESSIBLE PULL BOX SHALL BE INSTALLED WITHIN ANY CONDUIT RUN AFTER EVERY TWO (2) 90° TURNS AND/OR EVERY LINEAR 100'.
- D. SEE TA200 & 400 SERIES FOR ADDITIONAL DETAILS NOT DEPICTED HERE.



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LEVEL 3 AUDIOVISUAL

SHEET KEYNOTES

1. SURFACE MOUNT BOX, REMOVE TOP OF BOX AND INSTALL GUTTER TO TOP OF BOX SIZED TO COLLECT ALL INCOMING CONDUITS, PROVIDED AND INSTALLED BY OTHERS (FSR, WB-X3-PLT). TWO (2) DEDICATED 20A POWER EACH TERMINATED TO DUPLEX RECEPTACLE AND FOUR (4) DATA DROPS CONNECTED TO BUILDING LAN PLACED WITHIN BOX, PROVIDED BY OTHERS, IF REQUIRED BY THE AUTHORITY HAVING JURISDICTION A +5VDC, NORMALLY-CLOSED RELAY FROM THE FIRE ALARM SYSTEM SHALL BE PROVIDED, BY OTHERS, LANDING AT THE AV EQUIPMENT RACK FOR AUDIO SYSTEM MUTE IN THE EVENT OF A FIRE ALARM. THE RELAY WILL BE CONNECTED TO AUDIO LOGIC CONTROL BY AV
2. IN-WALL BOX, PROVIDED AND INSTALLED BY OTHERS (CHIEF, PAC526), DEDICATED 15A POWER PLACED WITHIN 1-GANG KNOCKOUT AVAILABLE ON ANY SIDE OF BOX, BY OTHERS
3. FLOOR BOX, PROVIDED AND INSTALLED BY OTHERS, MINIMUM 3-GANG SPACE RESERVED FOR AV PLATE/CONNECTIONS
4. 4"SQ. DEEP J-BOX WITH 2-GANG MUD-RING, PROVIDED AND INSTALLED BY OTHERS
5. 4"SQ. DEEP J-BOX WITH 1-GANG MUD-RING, PROVIDED AND INSTALLED BY OTHERS
6. 4"SQ. J-BOX MOUNTED FROM STRUCTURE ABOVE EACH DEVICE LOCATION
7. ONE (1) 1-1/4" CONDUIT, RESERVED FOR AV, BY OTHERS
8. ONE (1) 1" CONDUIT, RESERVED FOR AV, BY OTHERS
9. ONE (1) 3/4" CONDUIT, RESERVED FOR AV, BY OTHERS
10. ONE (1) 3/4" CONDUIT ROUTED BETWEEN BOXES, RESERVED FOR AV, BY OTHERS
11. ONE (1) 3/4" FLEX CONDUIT FROM BOX TO DEVICE, RESERVED FOR AV, BY OTHERS
12. ONE (1) 1" CONDUIT, RESERVED FOR COMMUNICATIONS, ROUTED TO CABLE TRAY -OR- MDF/IDF, BY OTHERS

CLIENT:

L3AV DRAWING STANDARDS

PROJECT NAME:

955 E JAVELINA AVE, STE B106
PHOENIX, AZ
85204

SITE ADDRESS:

[illegible]

ISSUED FOR:

PROJECT NO.:	0000
--------------	------

SCALE: NTS

DRAWN BY: M. SHERWOOD

APPROVED BY:

BUILDING: GCRB

FLOOR: 01

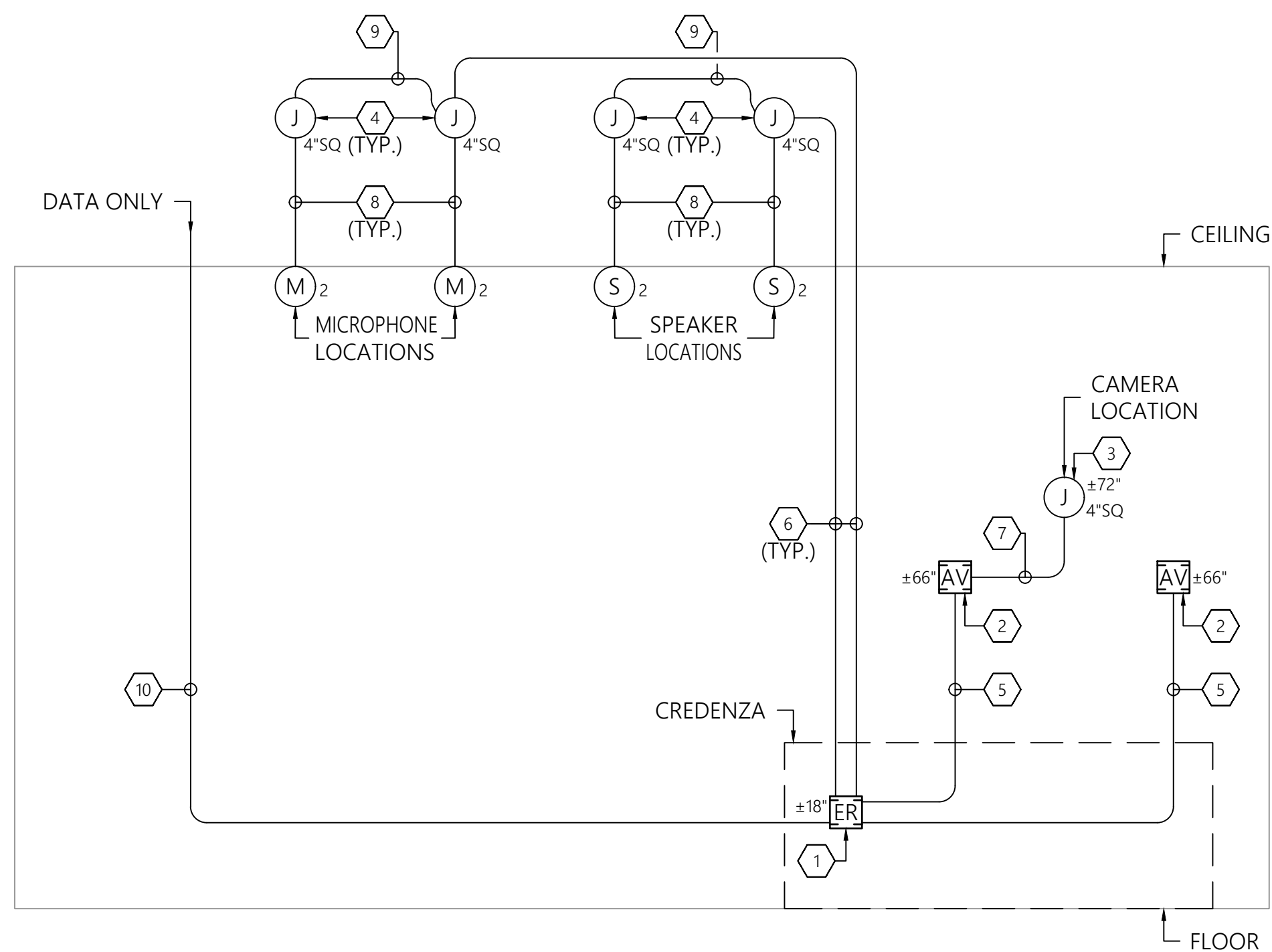
ROOM: MULTI PURPOSE ROOM (130)

RISER DIAGRAM

SHEET TITLE

TA301.2

SHEET NUMBER:



GENERAL NOTES

- A. ALL BOXES AND CONDUITS DEPICTED OR NOTED SHALL BE PROVIDED BY OTHERS.
- B. CONDUITS DEPICTED OR NOTED SHALL BE FURNISHED DE-BURRED, BUSHED, TAPPED, AND HAVE PULL STRING INSTALLED AND ARE FOR THE SOLE USE OF THE SYSTEM NOTED.
- C. AN ACCESSIBLE PULL BOX SHALL BE INSTALLED WITHIN ANY CONDUIT RUN AFTER EVERY TWO (2) 90° TURNS AND/OR EVERY LINEAR 100'.
- D. SEE TA200 & 400 SERIES FOR ADDITIONAL DETAILS NOT DEPICTED HERE.

SHEET KEYNOTES

1. IN-WALL BOX, PROVIDED AND INSTALLED BY OTHERS (FSR, WB-X3-PLT), BOX MUST BE ACCESSIBLE FROM WITHIN CREDEENZA, DEDICATED 15A POWER TERMINATED TO DUPLEX RECEPTACLE AND TWO (2) DATA DROPS CONNECTED TO BUILDING LAN PLACED WITHIN BOX, BY OTHERS, IF REQUIRED BY THE AUTHORITY HAVING JURISDICTION A +5VDC, NORMALLY-CLOSED RELAY FROM THE FIRE ALARM SYSTEM SHALL BE PROVIDED, BY OTHERS, LANDING AT THE AV EQUIPMENT RACK FOR AUDIO SYSTEM MUTE IN THE EVENT OF A FIRE ALARM. THE RELAY WILL BE CONNECTED TO AUDIO LOGIC CONTROL BY AV
2. IN-WALL BOX, PROVIDED AND INSTALLED BY OTHERS (CHIEF, PAC526), POWER PLACED WITHIN 1-GANG KNOCKOUT AVAILABLE ON ANY SIDE OF BOX, BY OTHERS
3. 4"SQ. DEEP J-BOX WITH 2-GANG MUD-RING, PROVIDED AND INSTALLED BY OTHERS
4. 4"SQ. J-BOX MOUNTED FROM STRUCTURE ABOVE EACH DEVICE LOCATION
5. ONE (1) 1-1/4" CONDUIT, RESERVED FOR AV, BY OTHERS
6. ONE (1) 1" CONDUIT, RESERVED FOR AV, BY OTHERS
7. ONE (1) 3/4" CONDUIT, RESERVED FOR AV, BY OTHERS
8. ONE (1) 3/4" FLEX CONDUIT FROM BOX TO DEVICE, RESERVED FOR AV, BY OTHERS
9. ONE (1) 3/4" CONDUIT ROUTED BETWEEN BOXES, RESERVED FOR AV, BY OTHERS
10. ONE (1) 1" CONDUIT, RESERVED FOR COMMUNICATIONS, ROUTED TO CABLE TRAY -OR- MDF/IDF, BY OTHERS



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LEVEL 3 AUDIOVISUAL

CLIENT:

L3AV DRAWING STANDARDS

PROJECT NAME:

955 E JAVELINA AVE, STE B106
PHOENIX, AZ
85204

SITE ADDRESS:

[illegible]

ISSUED FOR:

PROJECT NO.:	0000
--------------	------

SCALE: NTS

DRAWN BY: M. SHERWOOD

APPROVED BY:

BUILDING: GCRB

FLOOR: 04

ROOM: M CONF ROOM (418)

RISER DIAGRAM

SHEET TITLE

TA304.1

SHEET NUMBER:

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RISER DIAGRAM

M CONF ROOM (418)

Unless noted otherwise, everything shown on this page is considered standard L3AV practice and should be included on all TA4 drawings.

SYS-IDs should be used (and applied to all AV equipment on the page) when there are multiple instances of equipment of the same type for a given room/system. SYS-IDs are considered optional for simple elevation drawings with only one instance of each type of equipment in the room/system.

Text shall utilize background masks anytime that the text would otherwise be obscured or hard to read.

Facility backgrounds should be placed on the 'TA-XREF' layer and should plot as a medium grey color (Color 8 in the Layer palette)

Cross-referencing all pages associated with a room type isn't currently an L3AV standard, but should be considered best practice if time allows during drafting. Note that these callouts (which have been shaded in green) are also dynamic and can be clicked on to take you to the relevant page.

Provide sufficient measurements/dimensions to allow for proper placement of all AV equipment. Measurements should be referenced to an known location like a side wall, centerline of a wall, floor, doorway, etc. For this drawing, some of the measurements were referenced to the grid lines (E & F) since this was new construction and the only reference points available for things like j-boxes were the structural steel of the building (ie. grid lines).

GENERAL NOTES

- A. ALL POWER AND DATA TO BE PROVIDED BY OTHERS.
- B. AV COMPONENTS SHOULD RECEIVE A SINGLE PHASE FEED THAT IS PROPERLY GROUNDED.
- C. ALL BOXES AND CONDUITS DEPICTED OR NOTED SHALL BE PROVIDED BY OTHERS.
- D. CONDUITS DEPICTED OR NOTED SHALL BE FURNISHED DE-BURRED, BUSHED, TAGGED, AND HAVE PULL STRING INSTALLED AND ARE FOR THE SOLE USE OF THE SYSTEM NOTED.
- E. AN ACCESSIBLE PULL BOX SHALL BE INSTALLED WITHIN ANY CONDUIT RUN AFTER EVERY TWO (2) 90° TURNS AND/OR EVERY LINEAR 100'.
- F. SEE TA200 & 300 SERIES FOR ADDITIONAL DETAILS NOT DEPICTED HERE.

SHEET KEYNOTES

1. VIDEO WALL MADE UP OF 55" BEZEL-LESS LCD DISPLAYS WITH TRIM KIT, BY AV
2. OVERALL WIDTH AND HEIGHT OF VIDEO WALL DISPLAYS AND TRIM KIT
3. WALL MOUNT PTZ CAMERA, BY AV, 4"SQ DEEP J-BOX WITH 2-GANG MUD-RING MOUNTED FLUSH WITH FINISHED WALL SURFACE, RESERVED FOR AV, BY OTHERS
4. CEILING MOUNT MICROPHONE ARRAY, BY AV, MOUNTED WITH; SHURE A910-HCM HARD CEILING MOUNT, PROVIDED BY AV, INSTALLED BY OTHERS, 4"SQ J-BOX MOUNTED TO DECK, RESERVED FOR AV, BY OTHERS
5. PENDANT SUBWOOFER HUNG FLUSH WITH BOTTOM OF ACOUSTICAL WOOD CEILING WITHIN EXPOSED STRUCTURE SECTION BETWEEN WALL & CEILING, BY AV, 4"SQ J-BOX MOUNTED TO DECK, RESERVED FOR AV, BY OTHERS
6. PENDANT SPEAKER HUNG FLUSH WITH BOTTOM OF ACOUSTICAL WOOD CEILING WITHIN LIGHTING OPENING, BY AV, 4"SQ J-BOX MOUNTED TO DECK, RESERVED FOR AV, BY OTHERS
7. VIDEO WALL MOUNTING STRUCTURE & MOUNTS, BY AV
8. MINIMUM REQUIRED RECESS HEIGHT AND WIDTH FOR VIDEO WALL DISPLAYS AND TRIM KIT, RECESS OPENING MUST BE THIS HEIGHT AND WIDTH, OR LARGER, TO ALLOW INSTALLATION OF VIDEO WALL SYSTEM AND ALLOW CONVECTIVE COOLING OF VIDEO WALL DISPLAYS
9. IN-WALL STRUCTURAL BACKING, BY OTHERS, MAY BE 3/4" PLYWOOD -OR- 16 GAUGE STEEL SHEET
10. IN-WALL BOX, PROVIDED AND INSTALLED BY OTHERS (CHIEF, PAC526), TWO (2) EACH DEDICATED 20A POWER TERMINATED TO DUPLEX RECEPTACLE PLACED OPPOSITE WITHIN 1-GANG KNOCKOUTS AVAILABLE ON ANY SIDE OF BOX, BY OTHERS
11. FLOOR BOX LOCATED PER E-SERIES PLANS, BY OTHERS, MINIMUM 3-GANG SPACE RESERVED FOR AV PLATE/CONNECTIONS
12. OVERALL DEPTH OF VIDEO WALL DISPLAYS AND TRIM KIT NOT INCLUDING MOUNTING STRUCTURE
13. MINIMUM AND MAXIMUM DEPTH OF VIDEO WALL RECESS, FROM FINISHED SURFACE TO FINISHED SURFACE, FINISHED DEPTH OF RECESS MUST FALL WITHIN THIS RANGE FOR VIDEO WALL SYSTEM TO BE FLUSH WITH FINISHED WALL OUTSIDE OF RECESS



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LEVEL 3 AUDIOVISUAL

CLIENT:

L3AV DRAWING STANDARDS

PROJECT NAME:

955 E JAVELINA AVE, STE B106
PHOENIX, AZ
85204

SITE ADDRESS:

[illegible]

ISSUED FOR:

PROJECT NO.: 0000

SCALE: AS NOTED

DRAWN BY: M. SHERWOOD

APPROVED BY:

BUILDING: GCRB

FLOOR: 01

ROOM: MPR (130) EAST

ELEVATIONS & SECTIONS

SHEET TITLE

TA401.2

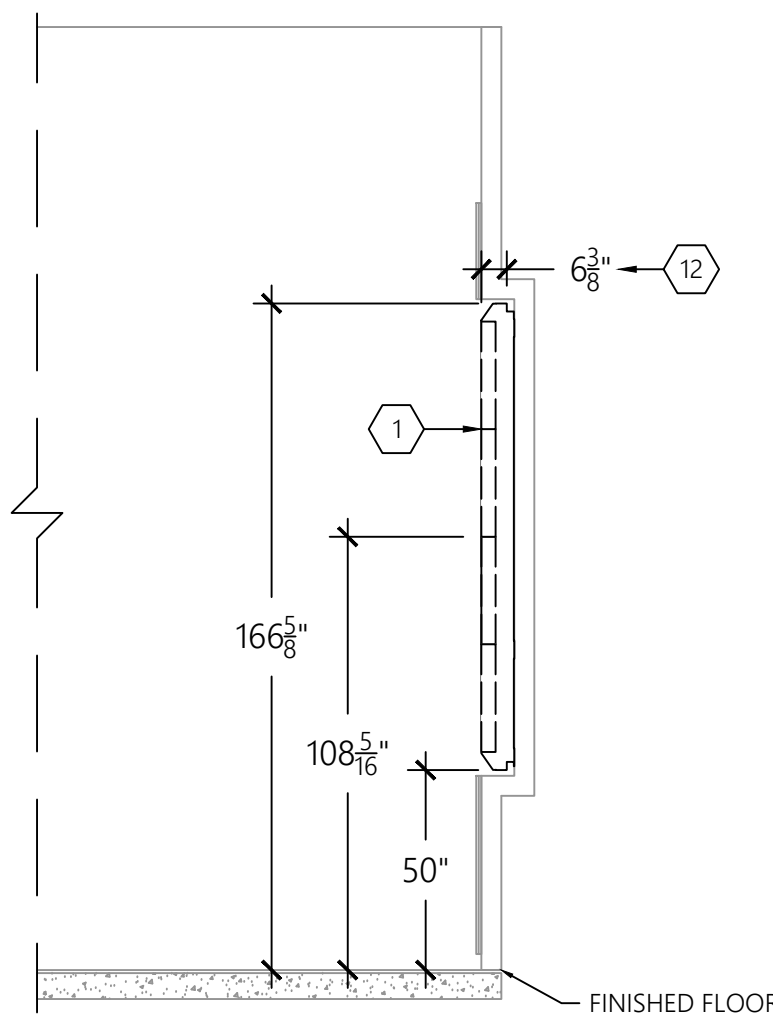
SHEET NUMBER:

AV EQUIPMENT ELEVATION

MULTI PURPOSE ROOM (130) EAST
SCALE: 1/4"=1'-0"

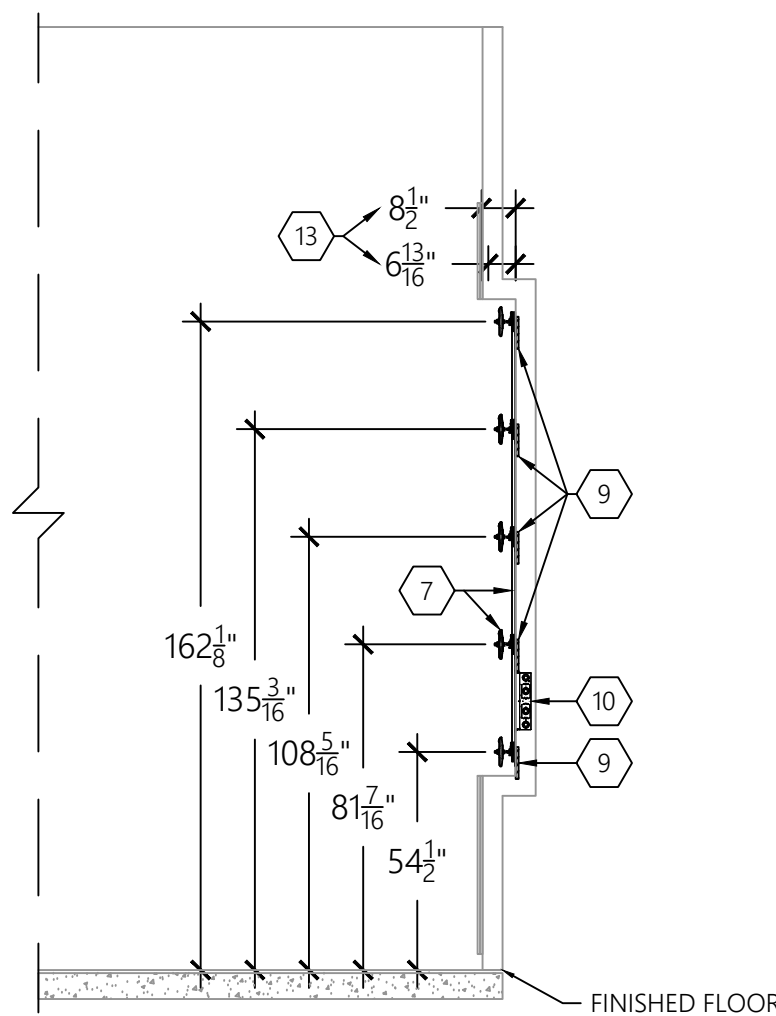
AV INFRASTRUCTURE ELEVATION

MULTI PURPOSE ROOM (130) EAST
SCALE: 1/4"=1'-0"



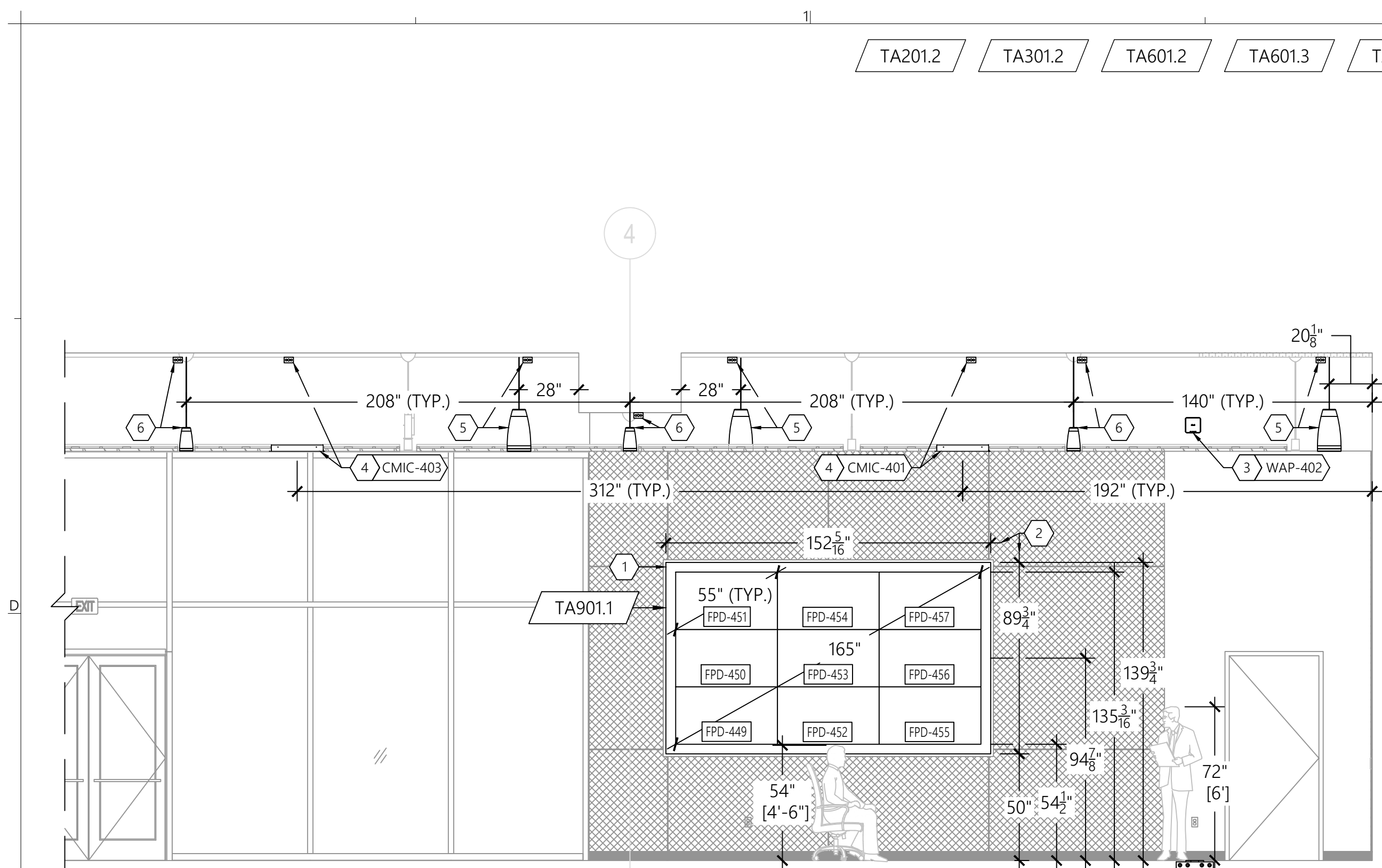
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MULTI PURPOSE ROOM (130) EAST
SCALE: 1/4"=1'-0"

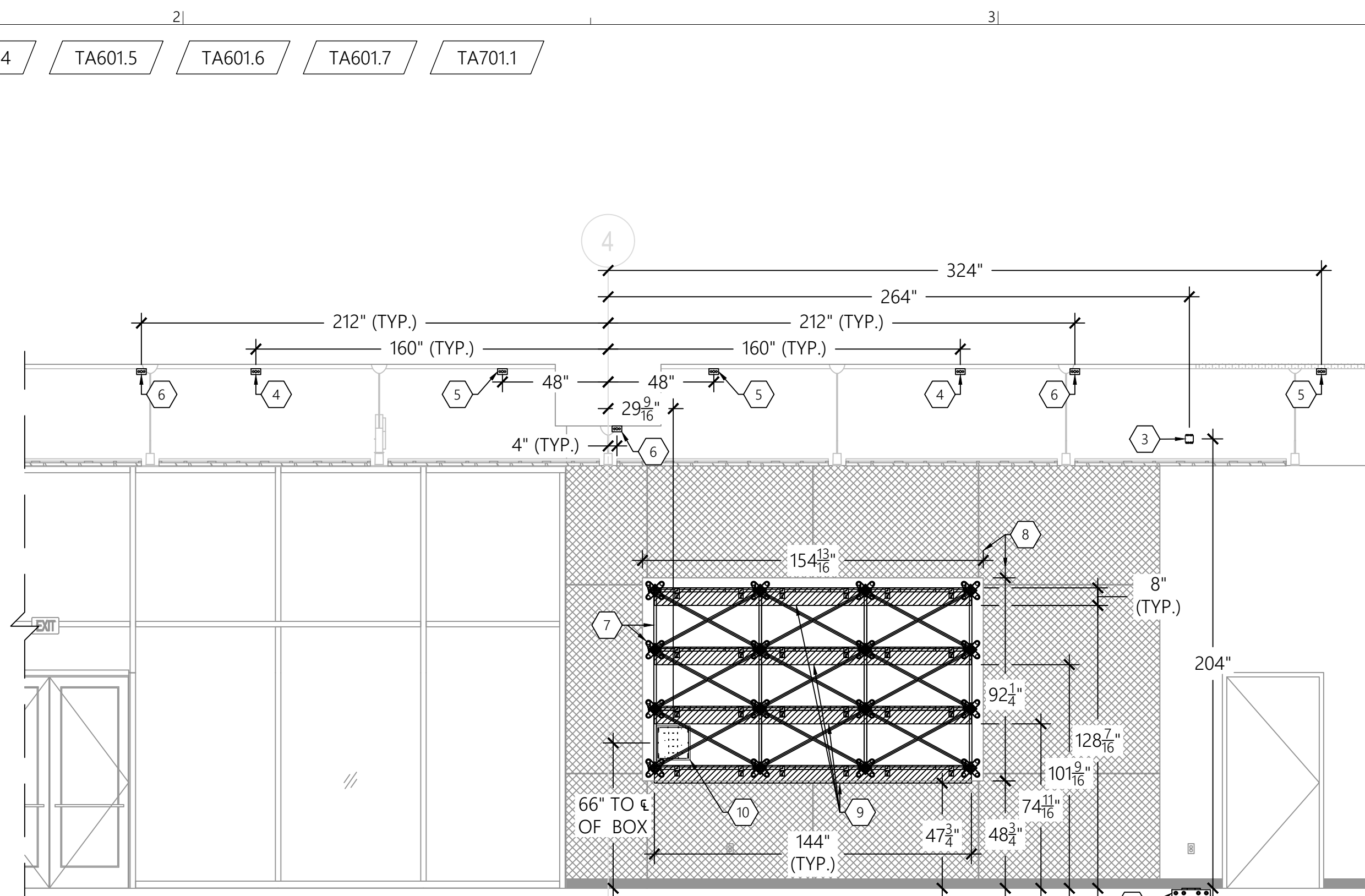


VIDEO WALL INFRASTRUCTURE SECTION

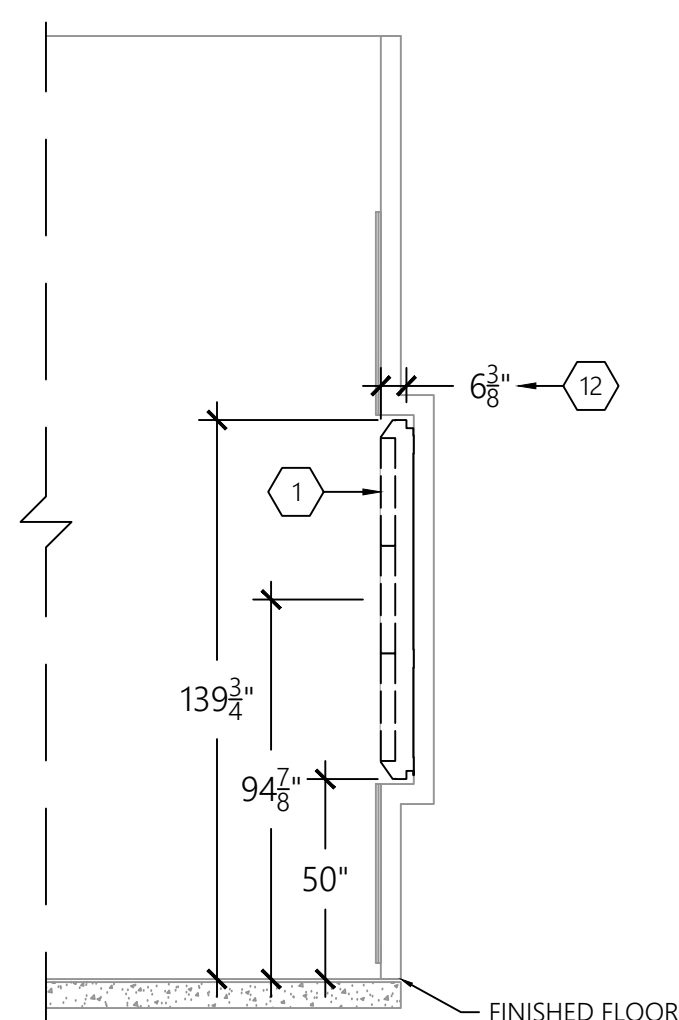
MULTI PURPOSE ROOM (130) EAST
SCALE: 1/4"=1'-0"



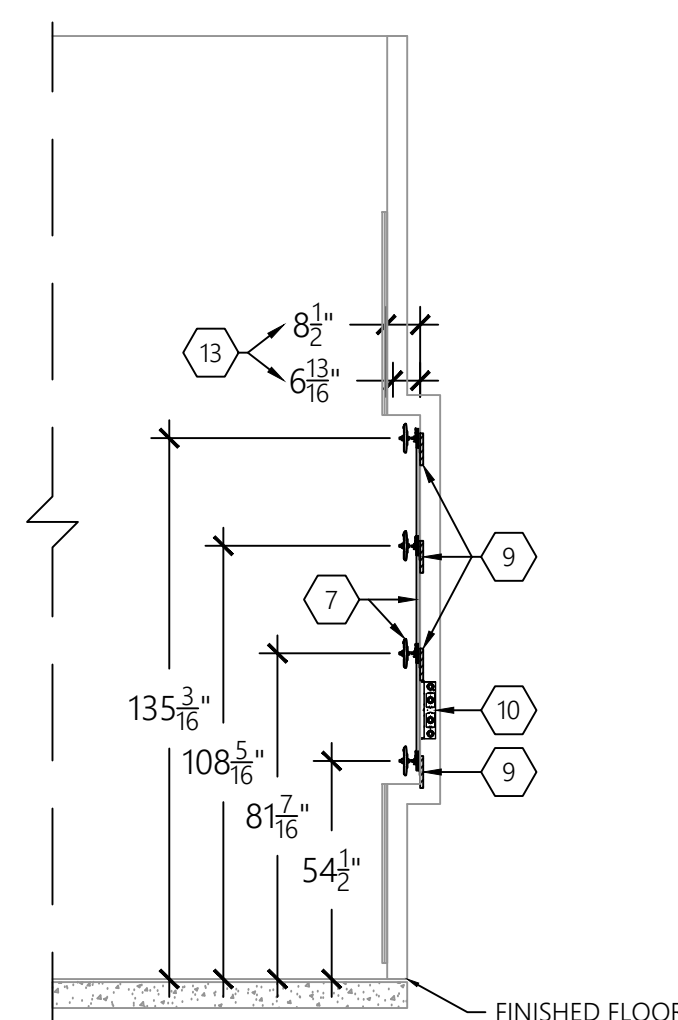
AV EQUIPMENT ELEVATION
MULTI PURPOSE ROOM (130) NORTH
SCALE: 1/4"=1'-0"



B AV INFRASTRUCTURE ELEVATION
MULTI PURPOSE ROOM (130) NORTH
SCALE: 1/4"=1'-0"



C VIDEO WALL EQUIPMENT SECTION
MULTI PURPOSE ROOM (130) NORTH
SCALE: 1/4"=1'-0"



D VIDEO WALL INFRASTRUCTURE SECTION
MULTI PURPOSE ROOM (130) NORTH
SCALE: 1/4"=1'-0"

GENERAL NOTES

- A. ALL POWER AND DATA TO BE PROVIDED BY OTHERS.
- B. AV COMPONENTS SHOULD RECEIVE A SINGLE PHASE FEED THAT IS PROPERLY GROUNDED.
- C. ALL BOXES AND CONDUITS DEPICTED OR NOTED SHALL BE PROVIDED BY OTHERS.
- D. CONDUITS DEPICTED OR NOTED SHALL BE FURNISHED DE-BURRED, BUSHED, TAGGED, AND HAVE PULL STRING INSTALLED AND ARE FOR THE SOLE USE OF THE SYSTEM NOTED.
- E. AN ACCESSIBLE PULL BOX SHALL BE INSTALLED WITHIN ANY CONDUIT RUN AFTER EVERY TWO (2) 90° TURNS AND/OR EVERY LINEAR 100'.
- F. SEE TA200 & 300 SERIES FOR ADDITIONAL DETAILS NOT DEPICTED HERE.

SHEET KEYNOTES

1. VIDEO WALL MADE UP OF 55" BEZEL-LESS LCD DISPLAYS WITH TRIM KIT, BY AV
2. OVERALL WIDTH AND HEIGHT OF VIDEO WALL DISPLAYS AND TRIM KIT
3. WIRELESS MICROPHONE ACCESS POINT, INSTALL WITH 2-GANG TO 1-GANG REDUCER RING, BY AV, 4"SQ DEEP J-BOX WITH 1-GANG MUD-RING MOUNTED FLUSH WITH FINISHED WALL SURFACE, RESERVED FOR AV, BY OTHERS
4. CEILING MOUNT MICROPHONE ARRAY, BY AV, MOUNTED WITH; SHURE A910-HCM HARD CEILING MOUNT, PROVIDED BY AV, INSTALLED BY OTHERS, 4"SQ J-BOX MOUNTED TO DECK, RESERVED FOR AV, BY OTHERS
5. PENDANT SUBWOOFER HUNG FLUSH WITH BOTTOM OF ACOUSTICAL WOOD CEILING WITHIN EXPOSED STRUCTURE SECTION BETWEEN WALL & CEILING, BY AV, 4"SQ J-BOX MOUNTED TO DECK, RESERVED FOR AV, BY OTHERS
6. PENDANT SPEAKER HUNG FLUSH WITH BOTTOM OF ACOUSTICAL WOOD CEILING WITHIN LIGHTING OPENING, BY AV, 4"SQ J-BOX MOUNTED TO DECK, RESERVED FOR AV, BY OTHERS
7. VIDEO WALL MOUNTING STRUCTURE & MOUNTS, BY AV
8. MINIMUM REQUIRED RECESS HEIGHT AND WIDTH FOR VIDEO WALL DISPLAYS AND TRIM KIT, RECESS OPENING MUST BE THIS HEIGHT AND WIDTH, OR LARGER, TO ALLOW INSTALLATION OF VIDEO WALL SYSTEM AND ALLOW CONVECTIVE COOLING OF VIDEO WALL DISPLAYS
9. IN-WALL STRUCTURAL BACKING, BY OTHERS, MAY BE 3/4" PLYWOOD -OR- 16 GAUGE STEEL SHEET
10. IN-WALL BOX, PROVIDED AND INSTALLED BY OTHERS (CHIEF, PAC526), TWO (2) EACH DEDICATED 20A POWER TERMINATED TO DUPLEX RECEPTACLE PLACED OPPOSITE WITHIN 1-GANG KNOCKOUTS AVAILABLE ON ANY SIDE OF BOX, BY OTHERS
11. FLOOR BOX LOCATED PER E-SERIES PLANS, BY OTHERS, MINIMUM 2-GANG SPACE RESERVED FOR AV PLATE/CONNECTIONS
12. OVERALL DEPTH OF VIDEO WALL DISPLAYS AND TRIM KIT NOT INCLUDING MOUNTING STRUCTURE
13. MINIMUM AND MAXIMUM DEPTH OF VIDEO WALL RECESS, FROM FINISHED SURFACE TO FINISHED SURFACE, FINISHED DEPTH OF RECESS MUST FALL WITHIN THIS RANGE FOR VIDEO WALL SYSTEM TO BE FLUSH WITH FINISHED WALL OUTSIDE OF RECESS



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LEVEL 3 AUDIOVISUAL

CLIENT:

L3AV DRAWING STANDARDS

PROJECT NAME:

955 E JAVELINA AVE, STE B106
PHOENIX, AZ
85204

SITE ADDRESS:

[illegible]

ISSUED FOR:

PROJECT NO.:	0000
--------------	------

SCALE: 1/4"=1

DRAWN BY: M. SHERWOOD

APPROVED BY:

BUILDING: GCRB

FLOOR: 01

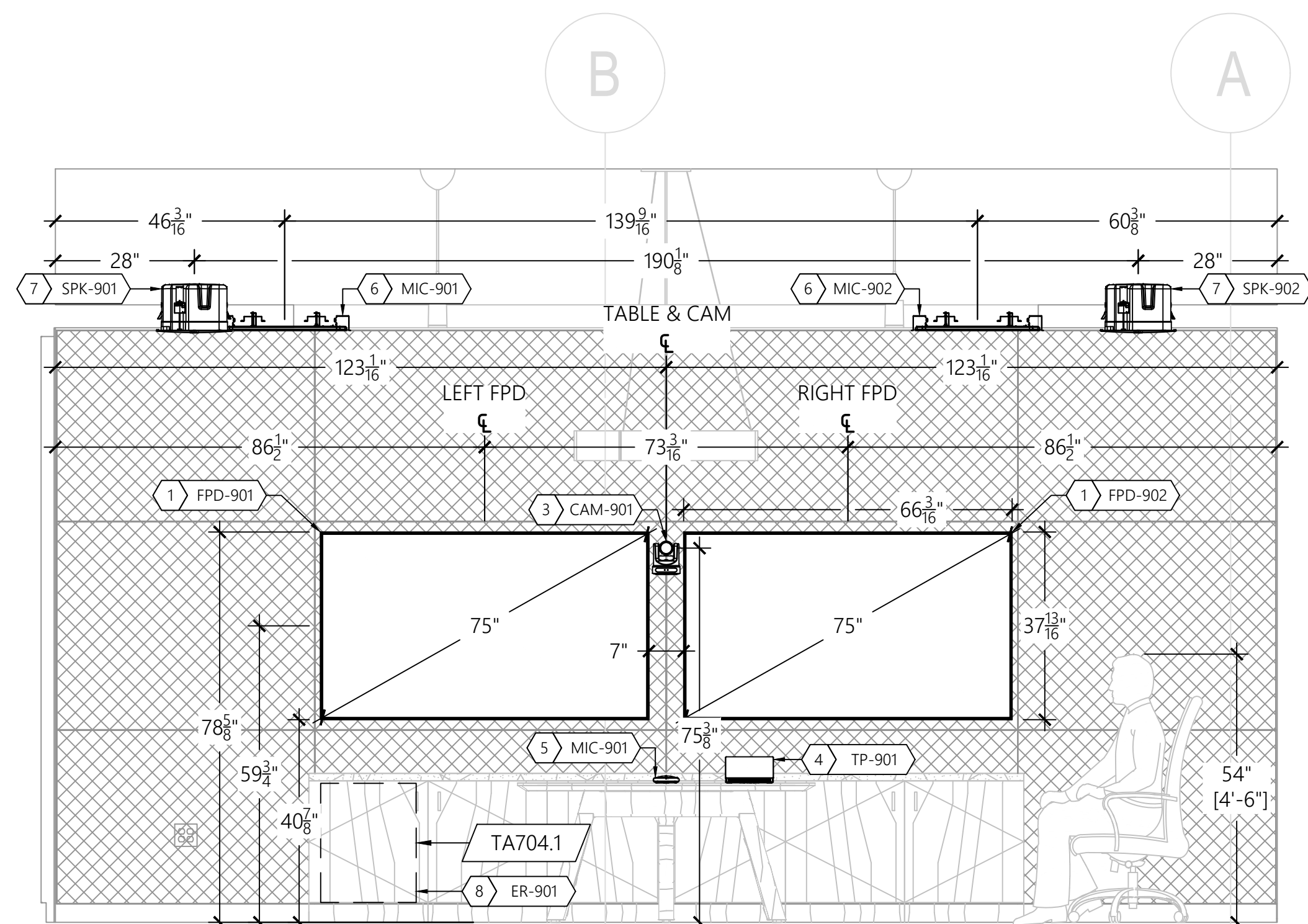
ROOM: MPR (130) NORTH

ELEVATIONS & SECTIONS

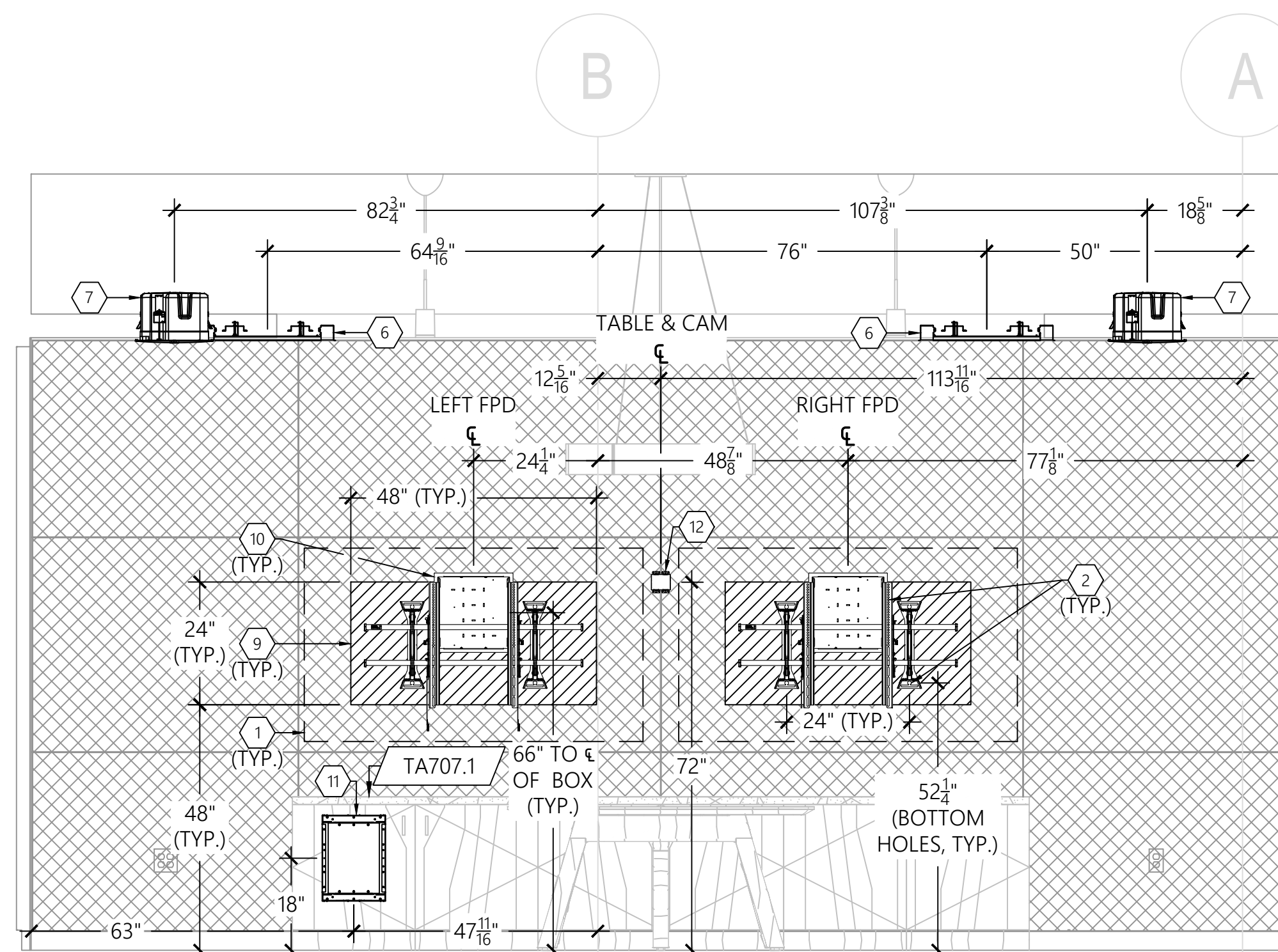
SHEET TITLE

TA401.3

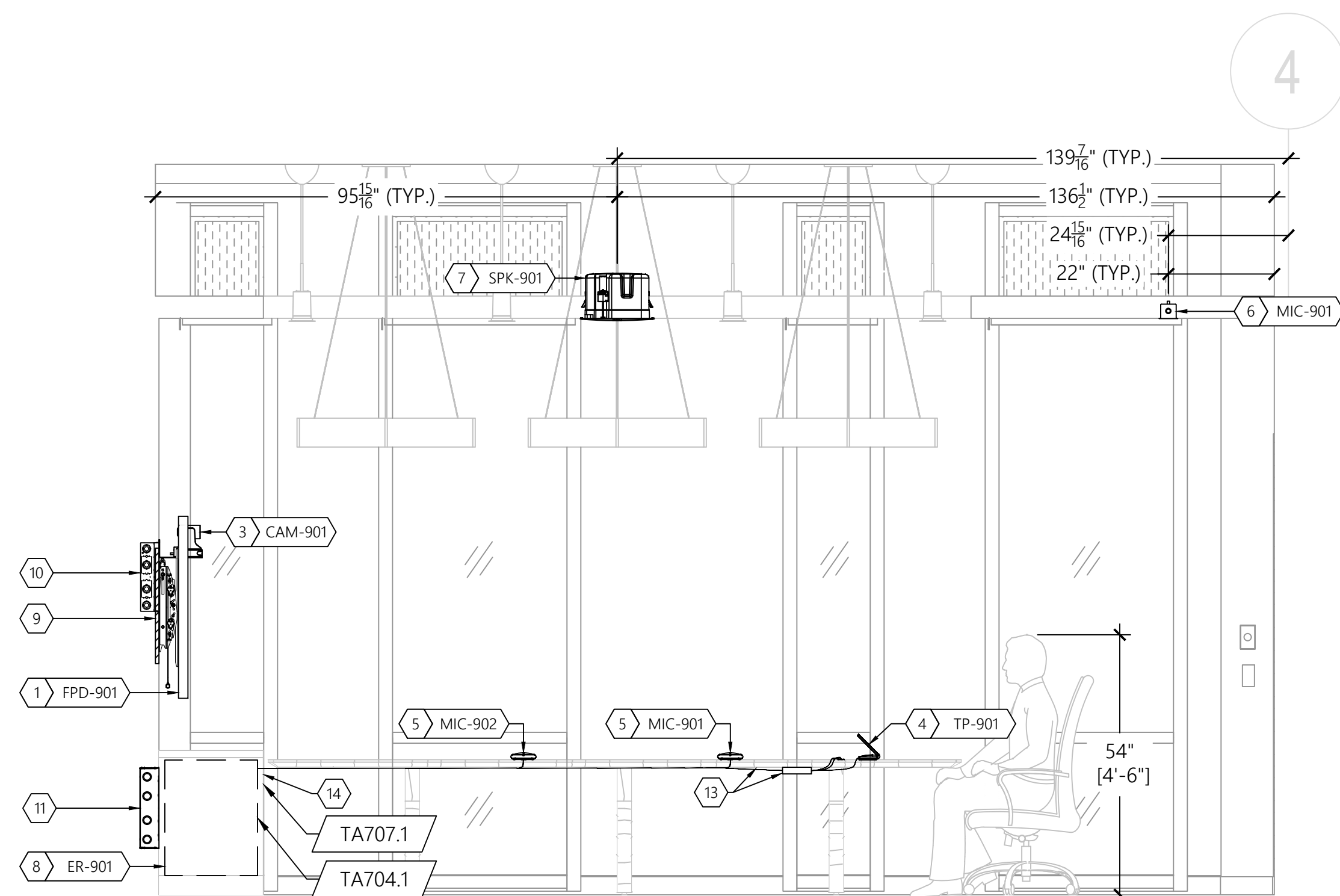
SHEET NUMBER:



AV EQUIPMENT ELEVATION
M CONF ROOM (418)
SCALE: 1/2" = 1'-0"



B AV INFRASTRUCTURE ELEVATION
M CONF ROOM (418)
SCALE: 1/2"=1'-0"



C AV EQUIPMENT & INFRASTRUCTURE SECTION
M CONF ROOM (418)
SCALE: 1/2" = 1'-0"

GENERAL NOTES

- A. ALL POWER AND DATA TO BE PROVIDED BY OTHERS.
- B. AV COMPONENTS SHOULD RECEIVE A SINGLE PHASE FEED THAT IS PROPERLY GROUNDED.
- C. ALL BOXES AND CONDUITS DEPICTED OR NOTED SHALL BE PROVIDED BY OTHERS.
- D. CONDUITS DEPICTED OR NOTED SHALL BE FURNISHED DE-BURRED, BUSHED, TAGGED, AND HAVE PULL STRING INSTALLED AND ARE FOR THE SOLE USE OF THE SYSTEM NOTED.
- E. AN ACCESSIBLE PULL BOX SHALL BE INSTALLED WITHIN ANY CONDUIT RUN AFTER EVERY TWO (2) 90° TURNS AND/OR EVERY LINEAR 100'.
- F. SEE TA200 & 300 SERIES FOR ADDITIONAL DETAILS NOT DEPICTED HERE.

SHEET KEYNOTES

1. 75" 4K UHD 16/7 COMMERCIAL LED DISPLAY, BY AV
2. X-LARGE TILT WALL MOUNT, BY AV, BOTTOM HOLES OF MOUNT WALL STAVES @ 52-1/4" AFF, PLACED 24" APART TO AVOID INTERFERENCE WITH IN-WALL BOX & DISPLAY STAVES, PLACE TOP HOLES OF DISPLAY VESA PATTERN IN SEVENTH HOLE DOWN FROM TOP OF MOUNT DISPLAY STAVES
3. WALL MOUNT PTZ CAMERA, BY AV
4. 10" TABLE TOP TOUCH PANEL , BY AV, CABLING PASS-THRU IN TABLE BY OTHERS
5. TABLETOP MICROPHONE ARRAY, BY AV, CABLING PASS-THRU IN TABLE BY OTHERS
6. FLUSH MOUNT CEILING MICROPHONE ARRAY (WHITEBOARD MIC), BY AV, FLUSH MOUNT KIT PROVIDED BY AV, INSTALLED BY OTHERS IN GYPSUM BOARD CEILING
7. FLUSH MOUNT 8" PHASE GUIDE 180° DISPERSION CEILING SPEAKER, BY AV, ROUGH IN PAN PROVIDED BY AV, INSTALLED BY OTHERS BEFORE GYPSUM BOARD CEILING
8. CREDENZA FRAME AV EQUIPMENT RACK, BY AV, MOUNTED WITHIN PROVIDED BY OTHERS CREDENZA, MIN. REQUIRED CLEAR SPACE WITHIN CREDENZA IS 24-1/2"H X 20"W X 20"D
9. IN-WALL STRUCTURAL BACKING, BY OTHERS, MAY BE 3/4" PLYWOOD -OR- 16 GAUGE STEEL SHEET
10. IN-WALL BOX, PROVIDED AND INSTALLED BY OTHERS (CHIEF, PAC526), POWER PLACED WITHIN 1-GANG KNOCKOUT AVAILABLE ON ANY SIDE OF BOX, BY OTHERS
11. IN-WALL BOX, PROVIDED AND INSTALLED BY OTHERS (FSR, WB-X3-PLT), BOX MUST BE ACCESSIBLE FROM WITHIN CREDENZA, DEDICATED 15A POWER TERMINATED TO DUPLEX RECEPTACLE AND TWO (2) DATA DROPS CONNECTED TO BUILDING LAN PLACED WITHIN BOX, BY OTHERS, IF REQUIRED BY THE AUTHORITY HAVING JURISDICTION A +5VDC, NORMALLY-CLOSED RELAY FROM THE FIRE ALARM SYSTEM SHALL BE PROVIDED, BY OTHERS, LANDING AT THE AV EQUIPMENT RACK FOR AUDIO SYSTEM MUTE IN THE EVENT OF A FIRE ALARM. THE RELAY WILL BE CONNECTED TO AUDIO LOGIC CONTROL BY AV



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LEVEL 3 AUDIOVISUAL

CLIENT:

L3AV DRAWING STANDARDS

PROJECT NAME:

955 E JAVELINA AVE, STE B106
PHOENIX, AZ
85204

SITE ADDRESS:

[illegible]

ISSUED FOR:

PROJECT NO.:	0000
--------------	------

SCALE: $1/2"=1'$

DRAWN BY: M. SHERWOOD

APPROVED BY:

BUILDING: GCRB

FLOOR: 04

ROOM: M CONF ROOM (418)

ELEVATIONS & SECTIONS

SHEET TITLE

TA404.1

SHEET NUMBER:

955 E. Javelina Avenue
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LEVEL 3 AUDIOVISUAL

CLIENT:

L3AV DRAWING STANDARDS

PROJECT NAME:

955 E JAVELINA AVE, STE B106
PHOENIX, AZ
85204

SITE ADDRESS:

[illegible]

ISSUED FOR:

PROJECT NO.: 0000

SCALE: 1:1

DRAWN BY: M. SHERWOOD

APPROVED BY:

BUILDING: GCRB

FLOOR:

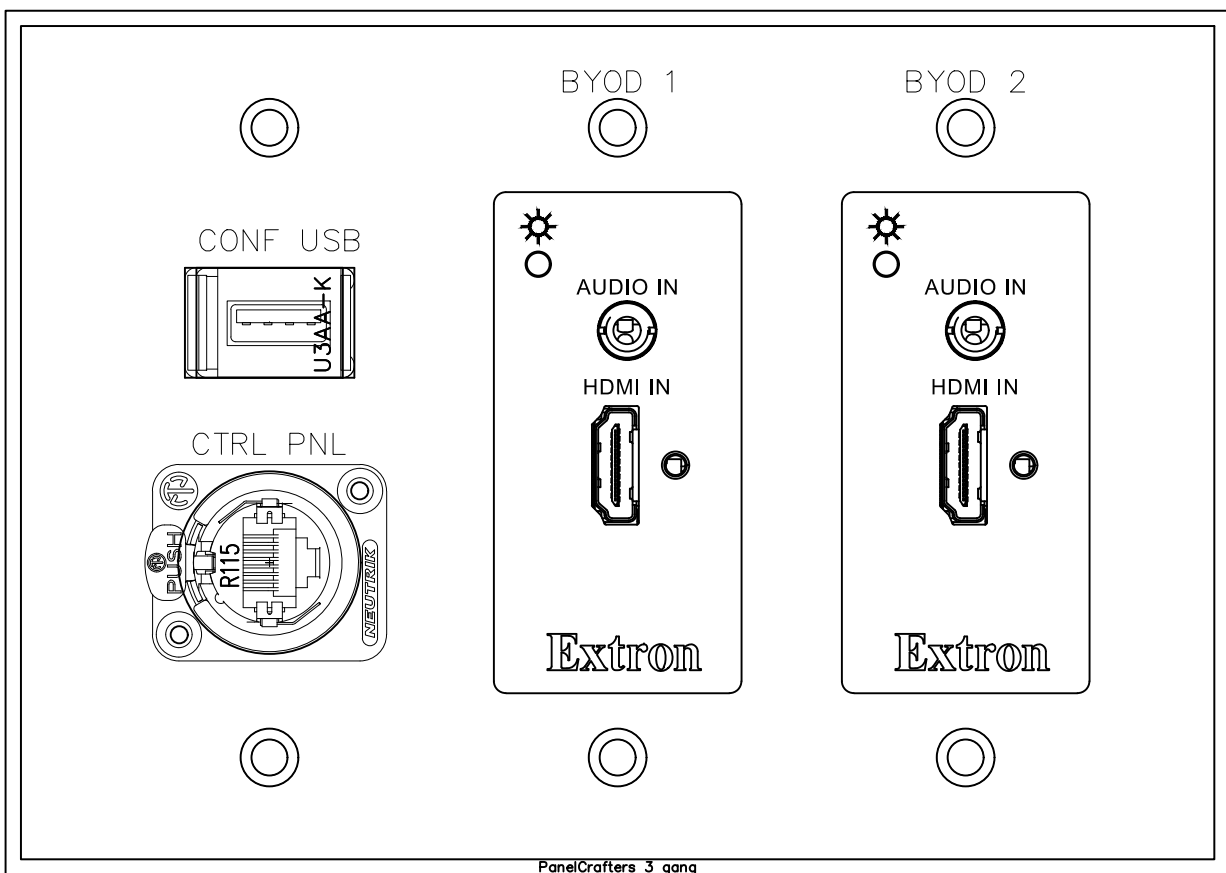
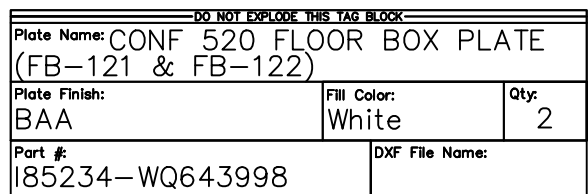
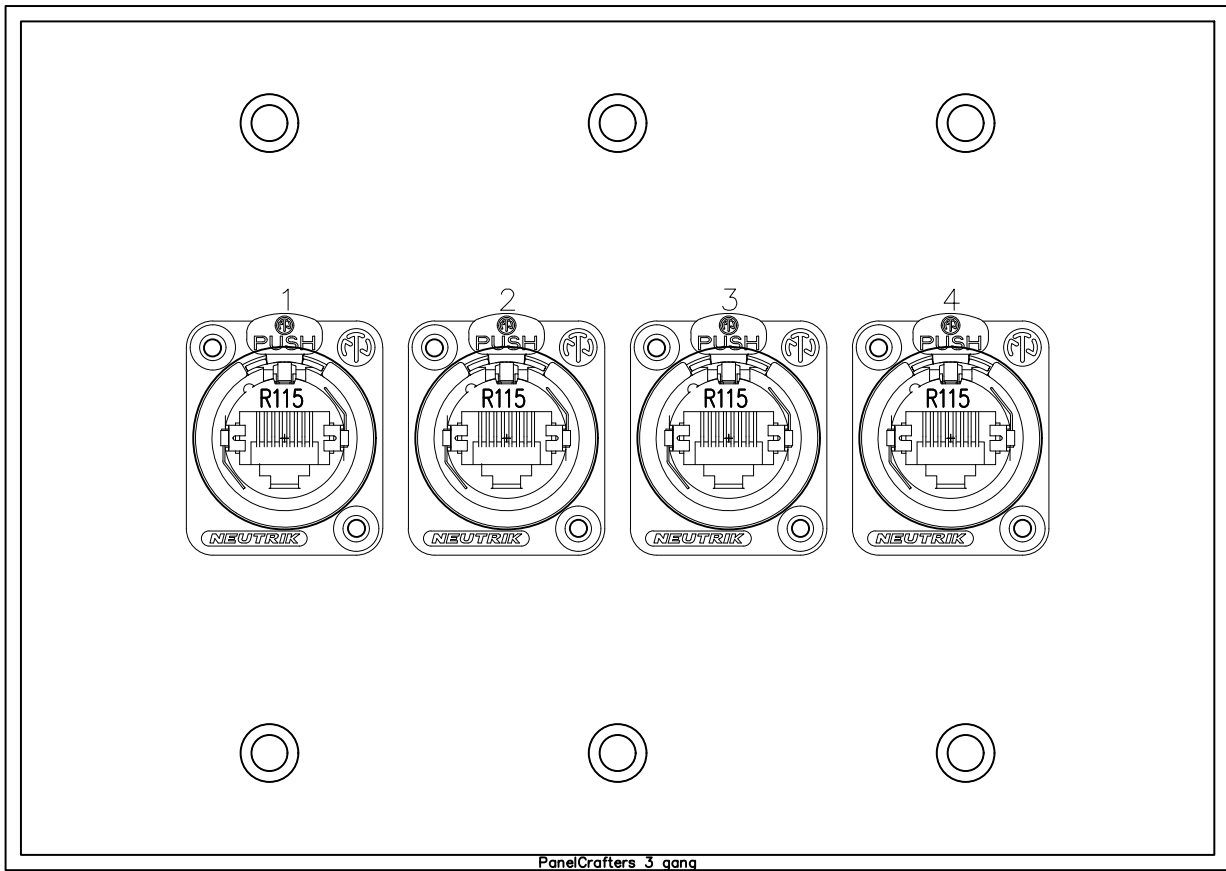
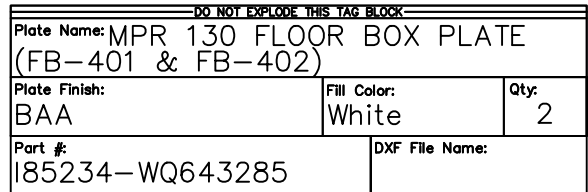
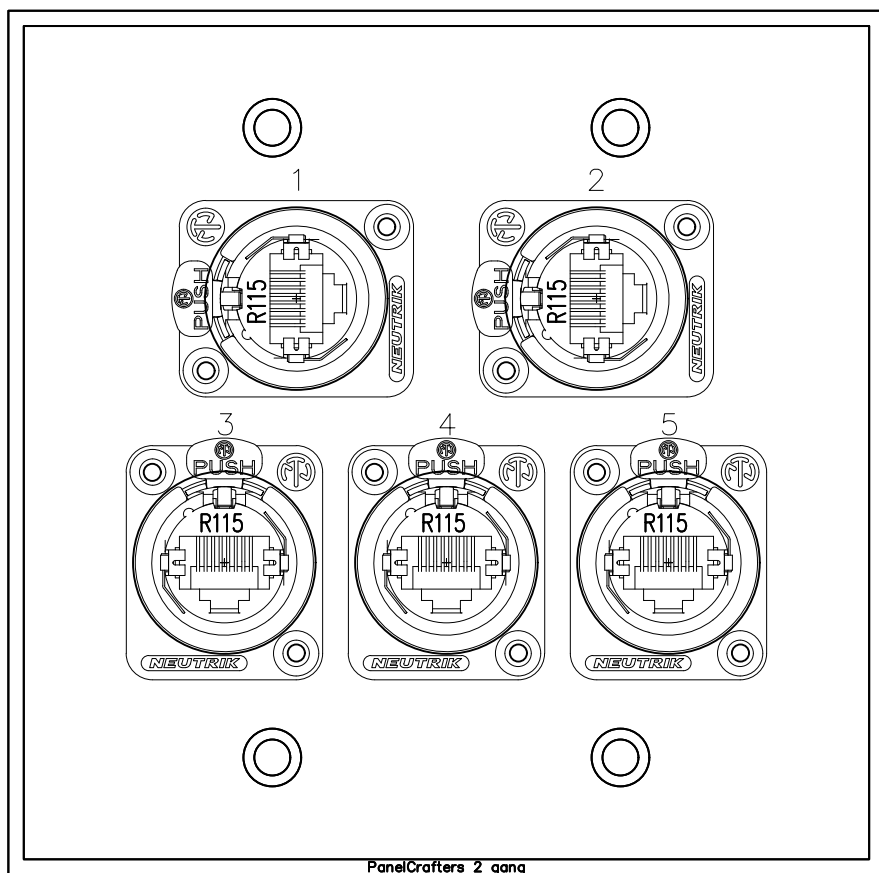
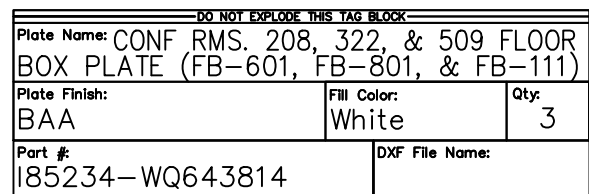
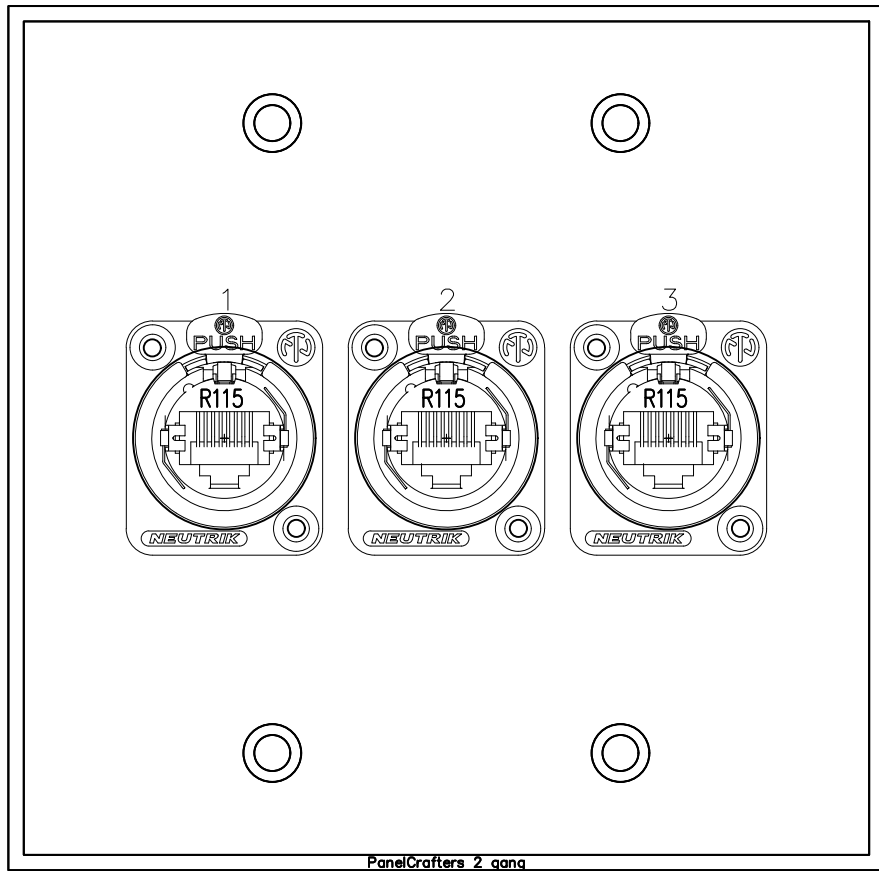
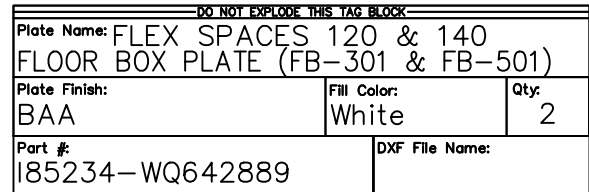
ROOM: 120, 130, 140, 208,
322, 509, & 520

INTERFACE PLATE DETAILS

SHEET TITLE

TA501.1

SHEET NUMBER:



A

CUSTOM & MANUFACTURED INTERFACE PLATE DETAILS

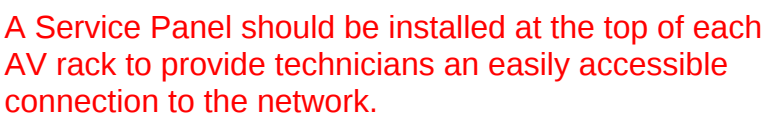
Scale: 1:1

Unless noted otherwise, everything shown on this page is considered standard L3AV practice and should be included on all TA5 drawings.

TA5 pages are used to provide additional information that would be difficult to include elsewhere. The most common usage is for rack panel and custom plate details, but other examples of TA5 pages include: showing details for how to mount equipment, providing label layouts for patch bays, showing, providing dimensional information for specific devices, etc.

Include layouts for all rack panels and custom wall plates (see previous page for examples). Wall plates in particular typically need sign off from the client before they are fabricated, so including them on TA5 pages is especially important.

The 2 vendors that we use for custom wall plates (Covid PanelSpec and Liberty AV WebBlox) both provide CAD drawings for the plates that we create, and these can easily be transferred over to the T&S Master for inclusion in the drawing package.



This applies not only to headend racks but also to any other racks that have equipment connecting to a centralized network. So for a project with a large 44RU rack located in an equipment closet that also has 6 lectern racks located throughout the facility, and where all of the lecterns have equipment that connect to a centralized network switch, you would need to budget a minimum of 7 ports on the network switch to connect to the Service Panels.

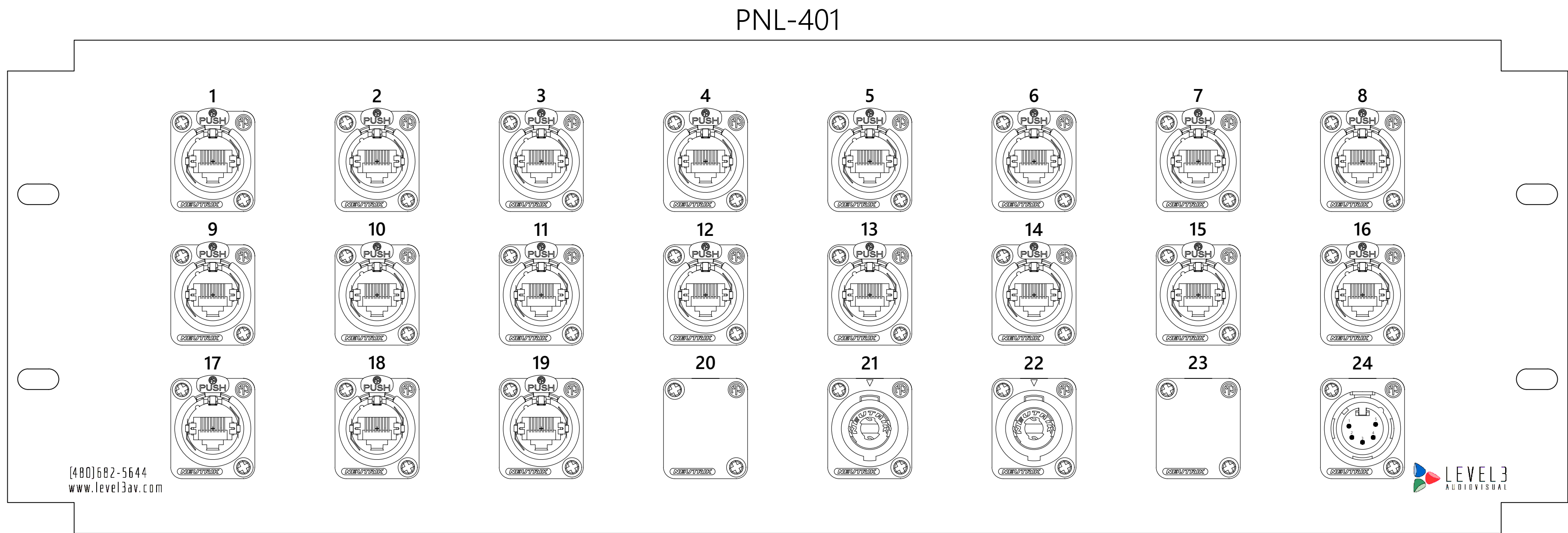
For the majority of installations that use a Netgear M4250 series switch, only a single port needs to connect between each Service Panel and the switch. However, you may need multiple connections in instances where there are multiple VLANs setup on a switch. Consult with a L3AV Network Engineer to determine what the needs are.

SRV-PNL-401



LEVEL 3
AUDIOVISUAL

RAPCO - 3446-1RUDATA-LOGO



Many of the connector types that we use are reserved for specific signal types. Refer to the TA5 Master for more information.

RAPCO - 3446-3RU24D

PNL-401 - PORT SCHEDULE				
PORT	TYPE	MFR.	PART NO.	CABLE LABEL
1	ETHERCON	NEUTRIK	NE8FDX-P6	BLDG LAN 1
2	ETHERCON	NEUTRIK	NE8FDX-P6	BLDG LAN 2
3	ETHERCON	NEUTRIK	NE8FDX-P6	BLDG LAN 3
4	ETHERCON	NEUTRIK	NE8FDX-P6	BLDG LAN 4
5	ETHERCON	NEUTRIK	NE8FDX-P6	STP4301
6	ETHERCON	NEUTRIK	NE8FDX-P6	STP4302
7	ETHERCON	NEUTRIK	NE8FDX-P6	STP4303
8	ETHERCON	NEUTRIK	NE8FDX-P6	STP4304
9	ETHERCON	NEUTRIK	NE8FDX-P6	STP4305
10	ETHERCON	NEUTRIK	NE8FDX-P6	STP4306
11	ETHERCON	NEUTRIK	NE8FDX-P6	STP4307
12	ETHERCON	NEUTRIK	NE8FDX-P6	STP4308
13	ETHERCON	NEUTRIK	NE8FDX-P6	STP4309
14	ETHERCON	NEUTRIK	NE8FDX-P6	STP4310
15	ETHERCON	NEUTRIK	NE8FDX-P6	STP4311
16	ETHERCON	NEUTRIK	NE8FDX-P6	STP4312
17	ETHERCON	NEUTRIK	NE8FDX-P6	STP4313
18	ETHERCON	NEUTRIK	NE8FDX-P6	STP4314
19	ETHERCON	NEUTRIK	NE8FDX-P6	STP4315
20	BLANK	NEUTRIK	DBA-PRE	
21	NL4	NEUTRIK	NL4MP	S4001
22	NL4	NEUTRIK	NL4MP	S4002
23	BLANK	NEUTRIK	DBA-PRE	
24	XLR 5 MALE	NEUTRIK	NC5MD-L-1	RLY4001

← The Port Schedule should be completed for every panel, and should correspond with the information shown on the signal flow pages.

← flow pages.

This table can also be laid out to the right of the panel, and there are options for both in the TA5 Master.

A

DISCONNECT PANEL DETAILS - MULTI PURPOSE ROOM (130) - ER-401

Scale: 1:1

A

PLOT DATE: 1/18/2023 2:23 PM



955 E. Javelina Avenue
Mesa, Arizona 85204
T: 480.892.1071
F: 480.892.5295
www.L3AV.com

LEVEL 3 AUDIOVISUAL

CLIENT:

L3AV DRAWING STANDARDS

PROJECT NAME:

955 E JAVELINA AVE, STE B106
PHOENIX, AZ
85204

SITE ADDRESS:

[illegible]

ISSUED FOR:

PROJECT NO.: 0000

SCALE: 1:1

DRAWN BY: M. SHERWOOD

APPROVED BY:

BUILDING: GCRB

FLOOR: 01

ROOM: MULTI PURPOSE ROOM (130)

RACK DISCONNECT PANEL DETAILS

SHEET TITLE

TA502.3

SHEET NUMBER:



955 E. Javelina Avenue
Mesa, Arizona 85204
T: 480.892.1071
F: 480.892.5295
www.L3AV.com

LEVEL 3 AUDIOVISUAL

CLIENT:

L3AV DRAWING STANDARDS

PROJECT NAME:

955 E JAVELINA AVE, STE B106
PHOENIX, AZ
85204

SITE ADDRESS:

[illegible]

ISSUED FOR:

PROJECT NO.: 0000

SCALE: 1:1

DRAWN BY: M. SHERWOOD

APPROVED BY:

BUILDING: GCRB

FLOOR: 04

ROOM: M CONF ROOM (418)

RACK DISCONNECT PANEL DETAILS

SHEET TITLE

TA502.8

SHEET NUMBER:

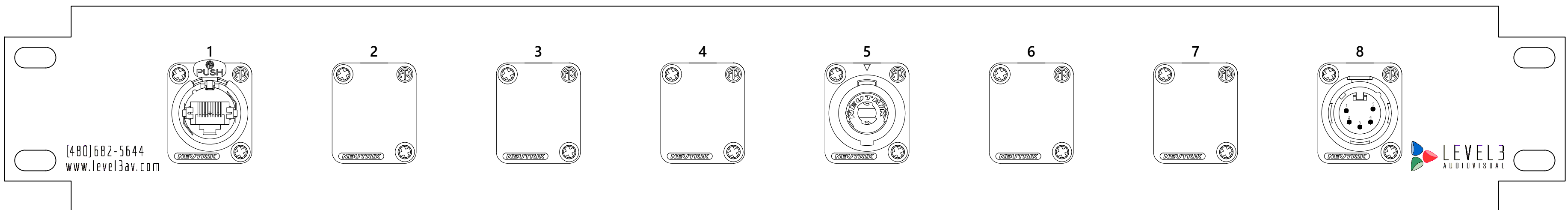
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SRV-PNL-901



RAPCO - 3446-1RUDATA-LOGO

PNL-901



RAPCO - 3446-1RU8D

PNL-901 - PORT SCHEDULE

PNL-901 - PORT SCHEDULE				
PORT	TYPE	MFR.	PART NO.	CABLE LABEL
1	ETHERCON	NEUTRIK	NE8FDX-P6	BLDG LAN 1
2	BLANK	NEUTRIK	DBA-PRE	
3	BLANK	NEUTRIK	DBA-PRE	
4	BLANK	NEUTRIK	DBA-PRE	
5	NL4	NEUTRIK	NL4MP	S9001
6	BLANK	NEUTRIK	DBA-PRE	
7	BLANK	NEUTRIK	DBA-PRE	
8	XLR 5 MALE	NEUTRIK	NC5MD-L-1	RLY9001

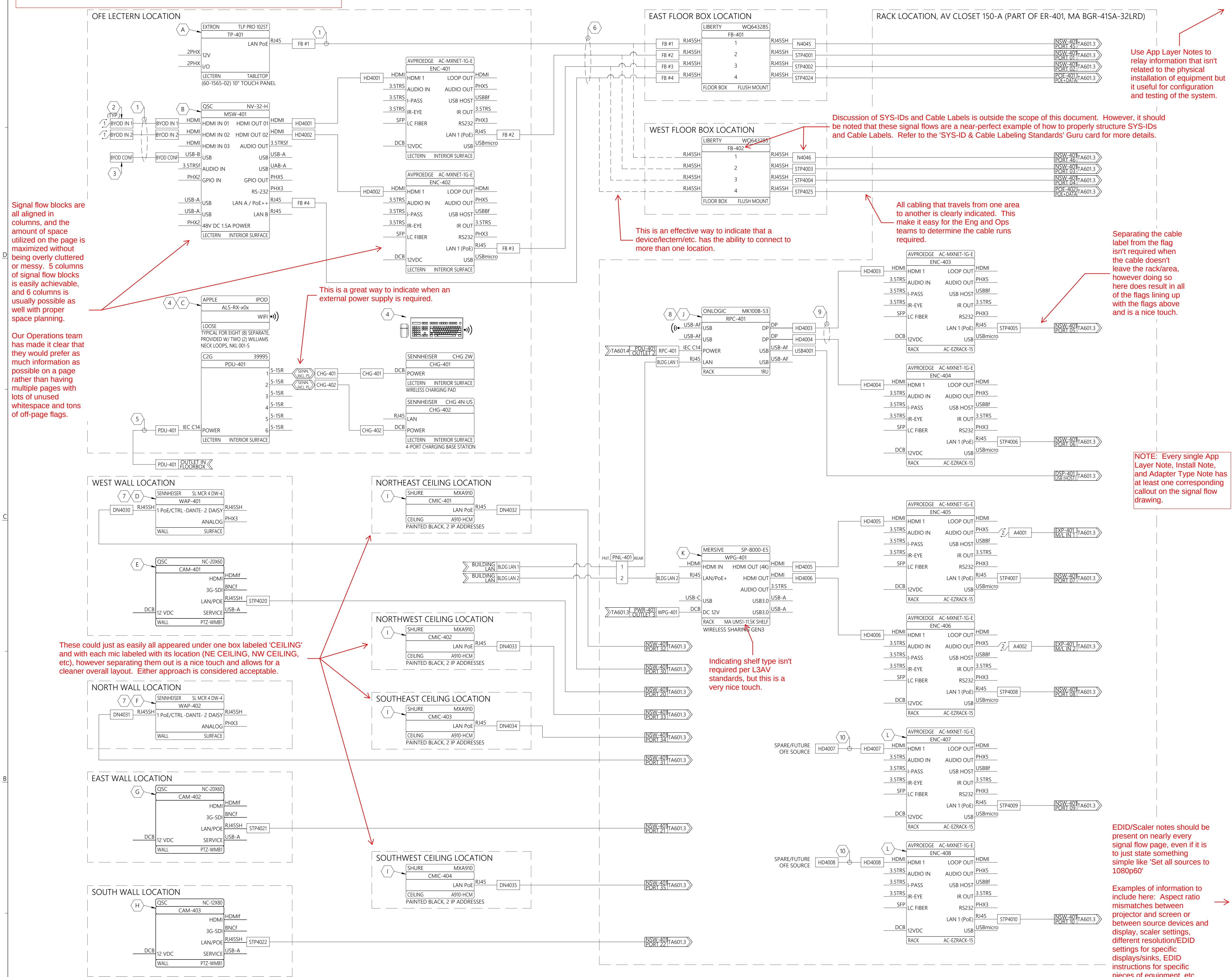
A

DISCONNECT PANEL DETAILS - M CONF ROOM (418) - ER-901

Scale: 1:1

PLOT DATE: 1/18/2023 2:23 PM

Unless noted otherwise, everything shown on this page is considered standard E&P practice and should be included on all TA6 drawings.



APP. LAYER NOTES

- A. PROVIDE PRESET TO PUSH A USER CHOSEN ENCODER AND DANTE AUDIO MIX (SAME AS ALS MIX) FROM MPP 130 TO DECODER AND DSP IN EITHER OR BOTH FLEX SPACES 120 AND 140 FOR OVERFLOW PURPOSE
- B. SET TO PERIPHERAL MODE, HDMI TO ROUTE 1 TO 1 AND 2 TO 2 AT ALL TIMES, SOFTWARE CONFERENCE HOSTING VIA USB
- C. CONNECT EIGHT (8) IPODS TO ROOM WI-FI, VERIFY ALS STREAM IS FUNCTIONAL, AND LOCK DEVICE SETTINGS (KIOSK MODE) ONCE SETUP IS COMPLETE
- D. PAIR (1) SL TABLESTAND AND (2) SL BODYPACKS, TURN LOOSE EQUIPMENT OVER TO AUTHORIZED UA REPRESENTATIVE AFTER TESTING
- E. PROVIDE TWO (2) INITIAL CAMERA PRESETS; OVERALL EAST WALL VIEW & TIGHT ON LECTERN AREA VIEW, ALWAYS ALLOW MANUAL PTZ CONTROLS AFTER SELECTION OF PRESET
- F. PAIR (2) SL HANDHELDS, TURN LOOSE EQUIPMENT OVER TO AUTHORIZED UA REPRESENTATIVE AFTER TESTING
- G. PROVIDE THREE (3) INITIAL CAMERA PRESETS; OVERALL WIDTH OF ROOM, OVERALL WEST WALL VIEW & TIGHT ON LECTERN AREA VIEW, ALWAYS ALLOW MANUAL PTZ CONTROLS AFTER SELECTION OF PRESET
- H. PROVIDE CAMERA PRESET OF WIDEST VIEW POSSIBLE, ALWAYS ALLOW MANUAL PTZ CONTROLS AFTER SELECTION OF PRESET
- I. MICS FOR AUDIENCE PICKUP DURING SOFTWARE CONFERENCING ONLY, NO VOICE LIFT, SET TO COVER MAXIMUM ROOM AREA WHILE EXCLUDING LECTERN AREA(S), UTILIZE MIX OUTPUT DANTE CHANNEL OF EACH MIC
- J. CONFIGURE WINDOWS DISPLAY SETTING TO EXTEND, ALLOW ROUTING OF SINGLE OUTPUT MIRRORED OR DISCRETE OUTPUTS VIA ENCODERS AND DECODERS
- K. SET TO EXTEND MODE, ALLOW ROUTING OF SINGLE OUTPUT MIRRORED OR DISCRETE OUTPUTS VIA ENCODERS AND DECODERS
- L. PROVIDE ROUTING FOR FUTURE SOURCES, LABEL AS "FUTURE SOURCE" & ALLOW USER NAMING VIA ADVANCED MENU

INSTALL NOTES

1. ROUTE CABLES TO TOP OF LECTERN, UTILIZING ANY CABLE MANAGEMENT, PASS-THRU(S), OR TABLE BOX(ES) BUILT-IN TO LECTERN. IF NO PROVISION FOR CABLING IS BUILT-IN TO LECTERN, MANAGE CABLING USING EXPANDABLE SLEEVE, SURFACE CABLE FASTENERS, AND BEST PRACTICES. ANY LECTERN MODIFICATION TO ACCOMMODATE CABLING SHALL BE BY OTHERS
2. CRESTRON CBL-HD-6
3. KRAMER C-USB3/AB-6
4. INITIAL ASSUMPTION IS LOOSE EQUIPMENT STORED IN OFE LECTERN, VERIFY STORAGE LOCATION WITH AND TURN LOOSE EQUIPMENT OVER TO AUTHORIZED UA REPRESENTATIVE AFTER TESTING
5. PROVIDE POWER EXTENSION CORD OF ADEQUATE LENGTH TO MATCH REACH OF PATCH CABLES DESCRIBED IN NOTE 6
6. COLLECT CABLES IN EXPANDABLE SLEEVE, VERIFY DESIRED CABLE REACH FROM LECTERN WITH AUTHORIZED UA REPRESENTATIVE
7. INSTALL USING 2G TO 1G REDUCER RING
8. ENSURE CLIENT IS AWARE THAT WHILE PC IS PROVIDED AND INSTALLED BY L3AV, IT IS CLIENTS RESPONSIBILITY TO PROVISION, MANAGE, & INSTALL ANY DESIRED SOFTWARE TO THE PC
9. DISPLAY PORT (MALE) TO HDMI (MALE) CABLE
10. HDMI CABLE OF ADEQUATE LENGTH TO REACH EMPTY SPACE LEFT IN RACK FOR OFE FUTURE SOURCE

EDID/SCALER NOTES

- SET EDID TO FOLLOW SOFTWARE ON ALL ENCODERS & DECODERS (DIP 1-4 IN "OFF" OR "0" POSITION)
- SET ASPECT RATIO OF NV-32-H TO "MAINTAIN ASPECT RATIO"

ADAPTER TYPES

1. LIBERTY DL-AR3772 ADAPTER RING
(ATTACH TO HDMI CABLE)
2. EXTRON ASA 131 (60-740-01) PHX5 TO
3CSC AUDIO SUMMING ADAPTER



955 E. Javelina Avenue
Mesa, Arizona 85204
T: 480.892.1071
F: 480.892.5295
www.L3AV.com

LEVEL 3 AUDIOVISUAL

CLIENT:

L3AV DRAWING STANDARDS

PROJECT NAME:

955 E JAVELINA AVE, STE B106
PHOENIX, AZ
85204

SITE ADDRESS:

[illegible]

ISSUED FOR:

PROJECT NO.:

0000

SCALE:

NTS

DRAWN BY:

M. SHERWOOD

APPROVED BY:

BUILDING:

GCRB

FLOOR

01

ROOM:ML

(130)

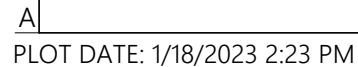
SIGNAL FLOW DIAGRAM [1 OF 6]

SHEET TITLE

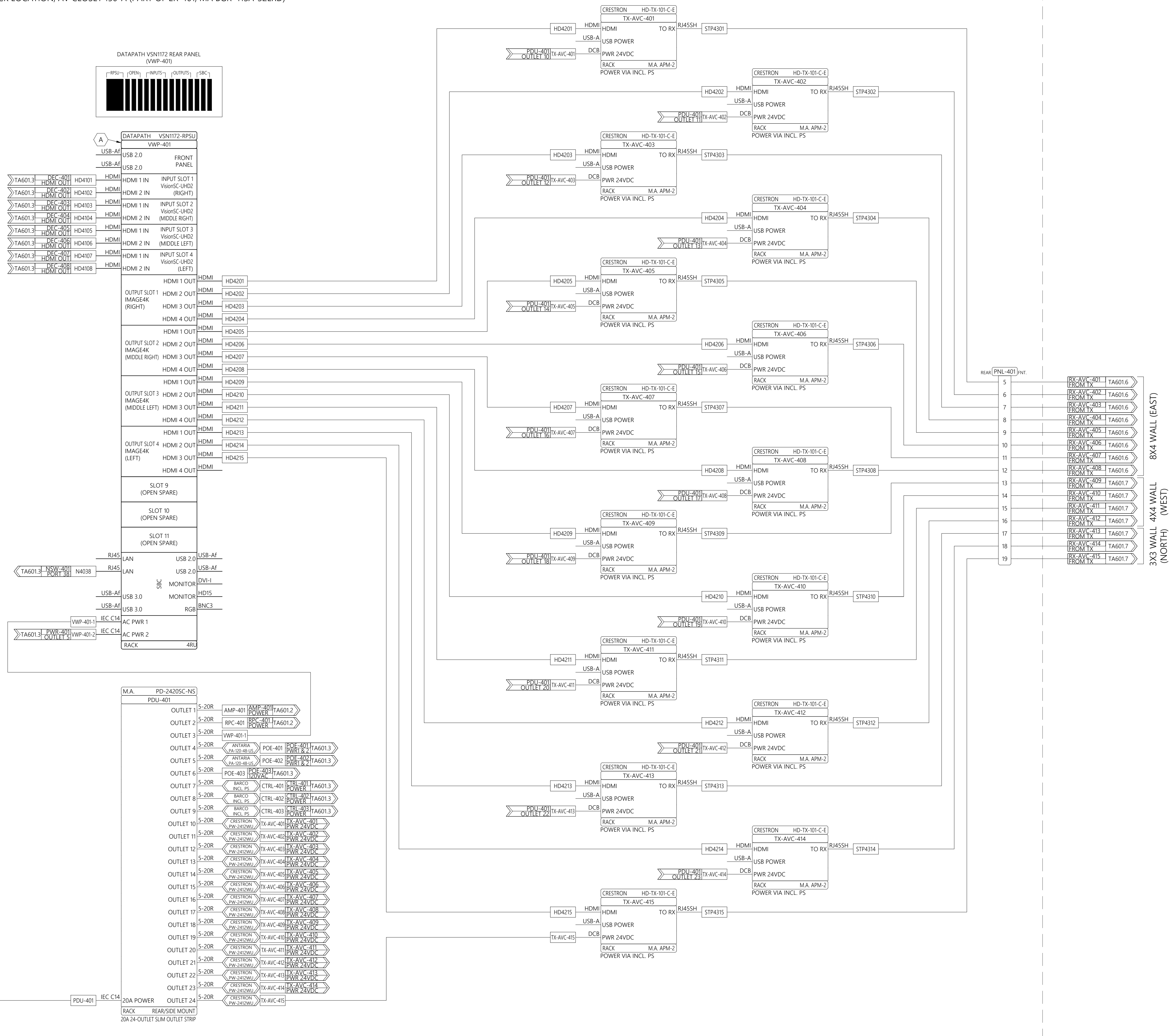
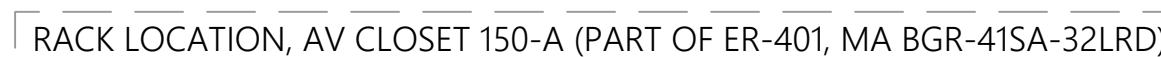
TA601.2

SHEET NUMBER:

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APP. LAYER NOTES

A. PROVIDE PRESETS PER TA901.1
FOR VWP-401

EDID/SCALER NOTES

- HDPC IS SUPPORTED ON ALL INPUTS OF VWP-401
- NATIVE ASPECT RATIO OF VIDEO WALLS IS 16:9, MAINTAIN NATIVE ASPECT RATIO ON VWP-401 OUTPUTS
- SET EDID OF CRESTRON TX 401-412 TO 3840X2160 @ 60Hz
- SET EDID OF CRESTRON TX 413-415 TO A CUSTOM RESOLUTION OF 1920X3240 @ 60Hz

LEVEL 3 AUDIOVISUAL

CLIENT:

L3AV DRAWING STANDARDS

PROJECT NAME

955 E JAVELINA AVE, STE B106
PHOENIX, AZ
85204

SITE ADDRESS:

[illegible]

ISSUED FOR:

PROJECT NO.: 0000

SCALE: NTS

DRAWN BY: M. SHERWOOD

APPROVED BY:

BUILDING: GCRB

FLOOR: 01

ROOM: MULTI PURPOSE ROOM (130)

SIGNAL FLOW DIAGRAM [3 OF 6]

SHEET TITLE

TA601.4

SHEET NUMBER

1. INSTALL PATCH CABLE OF ADEQUATE LENGTH TO REACH A BOTTOM CORNER OF VIDEO WALL & COIL BEHIND TRIM FOR EASE OF SERVICE ACCESS



LEVEL 3 AUDIOVISUAL

CLIENT:

L3AV DRAWING STANDARDS

PROJECT NAME:

955 E JAVELINA AVE, STE B106
PHOENIX, AZ
85204

SITE ADDRESS:

[illegible]

ISSUED FOR:

PROJECT NO.: 0000

SCALE: NTS

DRAWN BY: M. SHERWOOD

APPROVED BY:

BUILDING: GCRB

FLOOR: 01

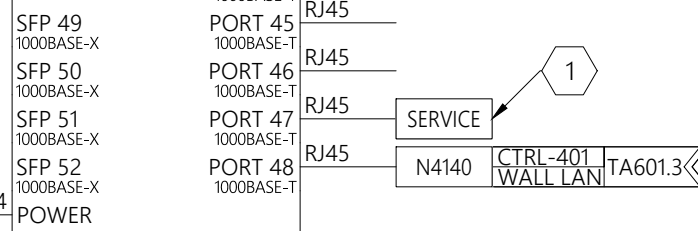
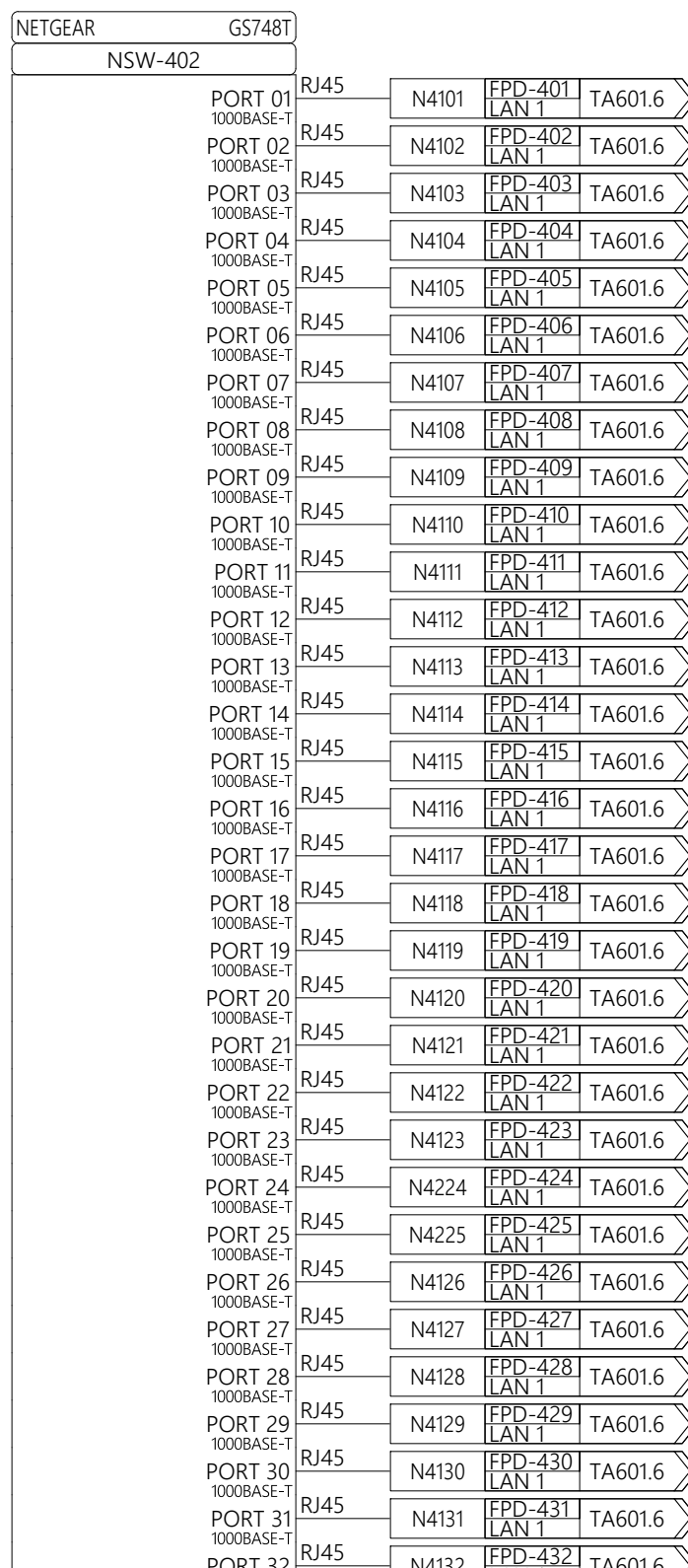
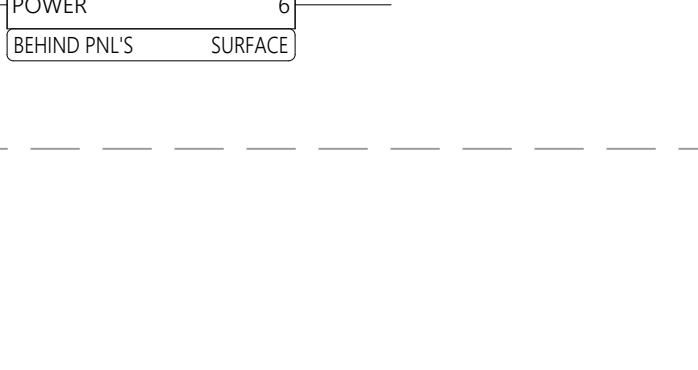
ROOM: MULTI PURPOSE ROOM (130)

SIGNAL FLOW DIAGRAM [4 OF 6]

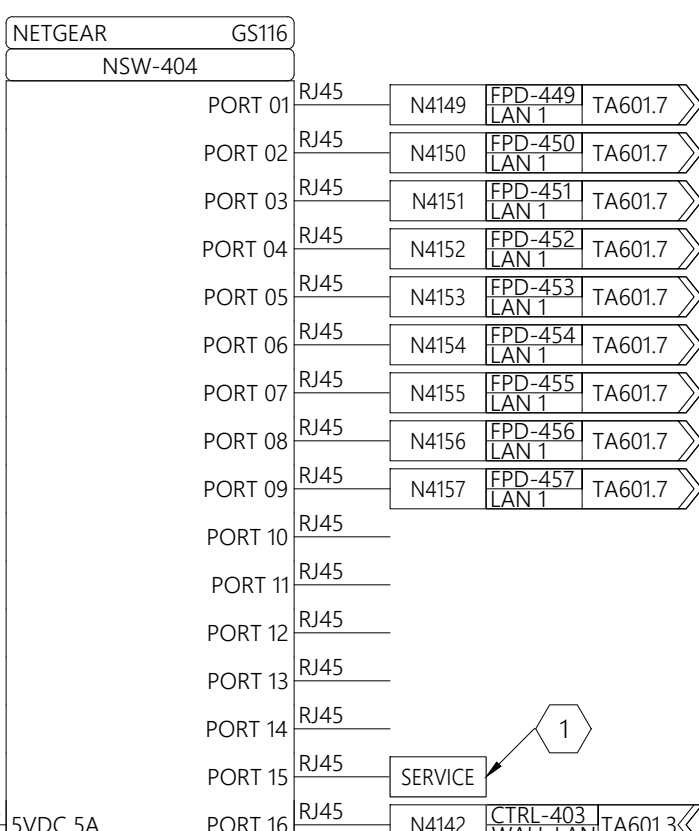
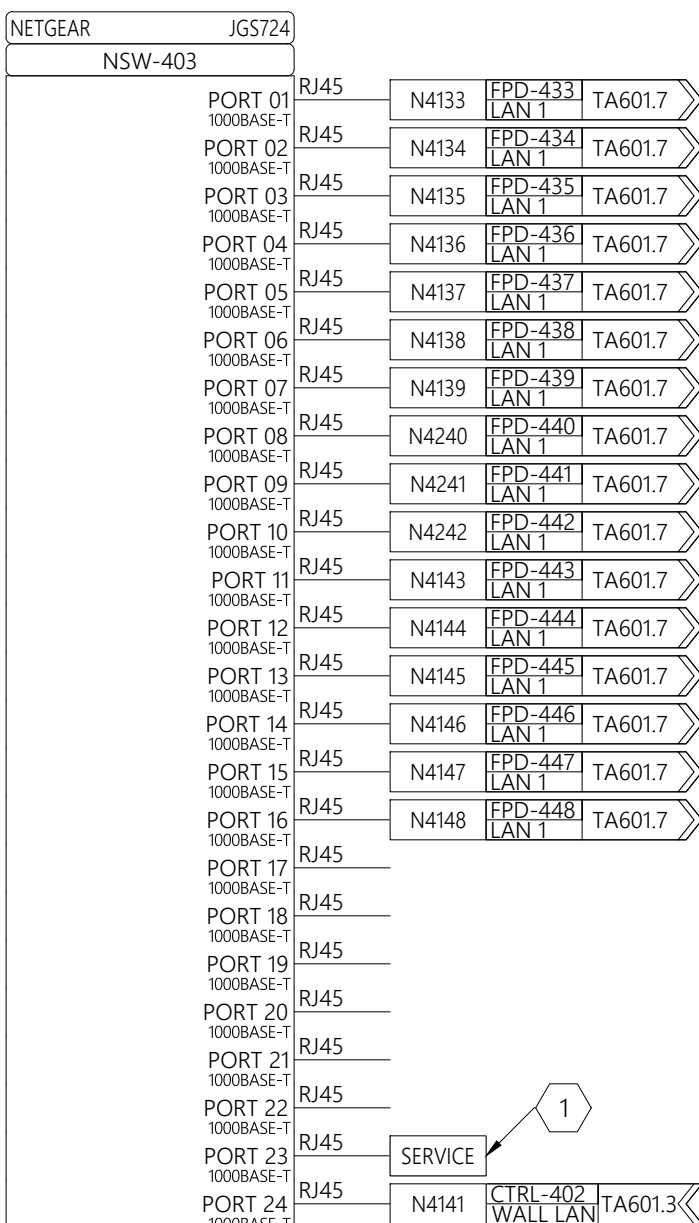
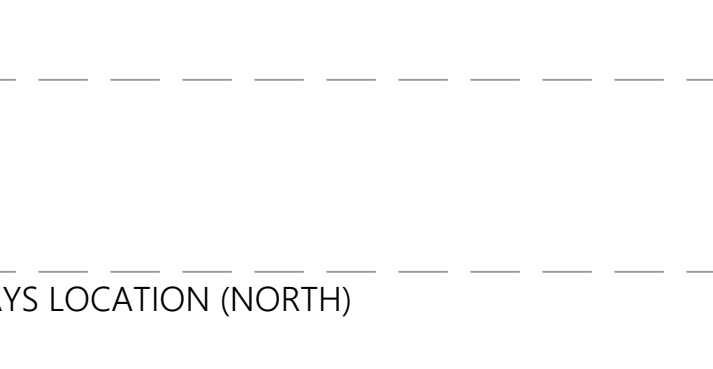
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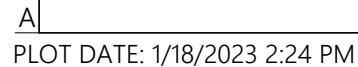
TA601.5

SHEET NUMBER:



ND 3X3 VIDEO WALL DISPLAYS LOCATION (NORTH)







A

PLOT DATE: 1/18/2023 2:24 PM

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- A. PROVIDE THREE (3) INITIAL CAMERA PRESETS; OVERALL TABLE VIEW, SOUTH WHITEBOARD VIEW (RIGHT WHEN FACING BOARDS), & NORTH WHITEBOARD VIEW (LEFT WHEN FACING BOARDS). ALWAYS ALLOW MANUAL PTZ CONTROLS AFTER SELECTION OF PRESET
- B. CEILING MICS TO BE MUTED EXCEPT WHEN A WHITEBOARD CAMERA PRESET IS CHOSEN, MICS TO REMAIN OPEN UNTIL OVERALL TABLE VIEW CAMERA PRESET IS CHOSEN, UTILIZE MIX OUTPUT DANTE CHANNEL
- C. SET MICS TO TOROID PATTERN, UTILIZE MIX OUTPUT DANTE CHANNEL
- D. SET TO CORE MODE & INSTALL SL-DAN-8-P 8X8 DANTE LICENSE, HD TO ROUTE 1 TO 1 AND 2 TO 2 AT ALL TIMES
- E. SET TO EXTEND MODE, ALLOW ROUTING OF SINGLE OUTPUT MIRRORED OR DISCRETE OUTPUTS VIA ENCODERS AND DECODERS
- F. "ALL VLANS" 100, 110, & 120 ON THESE PORTS
- G. OUTLETS ALWAYS ON
- H. PGM PREFERENCE FOR RS232 OR IP CONTROL

1. ROUTE CABLES TO TABLETOP, UTILIZING ANY CABLE MANAGEMENT, TABLE PASS-THRU(S), OR TABLE BOX(ES) BUILT-IN TO TABLE. IF NO PROVISION FOR CABLEING IS BUILT-IN TO TABLE, MANAGE CABLING USING EXPANDABLE SLEEVE, SURFACE CABLE FASTENERS, AND BEST PRACTICES. PROVIDE ADEQUATE SLACK IN CABLE TO MOVE TABLE AWAY FROM CREDENZA WITHOUT DISCONNECTING DEVICES (APPROXIMATELY 3'-4" CABLE SLACK) AND COIL WITHIN CREDENZA. ANY TABLE MODIFICATION TO ACCOMMODATE CABLING SHALL BE BY OTHERS.

- SET EDID TO FOLLOW SOFTWARE ON ALL ENCODERS & DECODERS (DIP 1-4 IN "OFF" OR "0" POSITION)
- SET ASPECT RATIO OF NV-32-H TO "MAINTAIN ASPECT RATIO"

1. LIBERTY DL-AR3772 ADAPTER RING
(ATTACH TO HDMI CABLE)
2. EXTRON ASA 131 (60-740-01) PHX5 TO
3CSC AUDIO SUMMING ADAPTER

[illegible]

PROJECT NO.:	0000
SCALE:	NTS

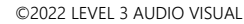
DRAWN BY: M. SHERWOOD

LOOP: 04

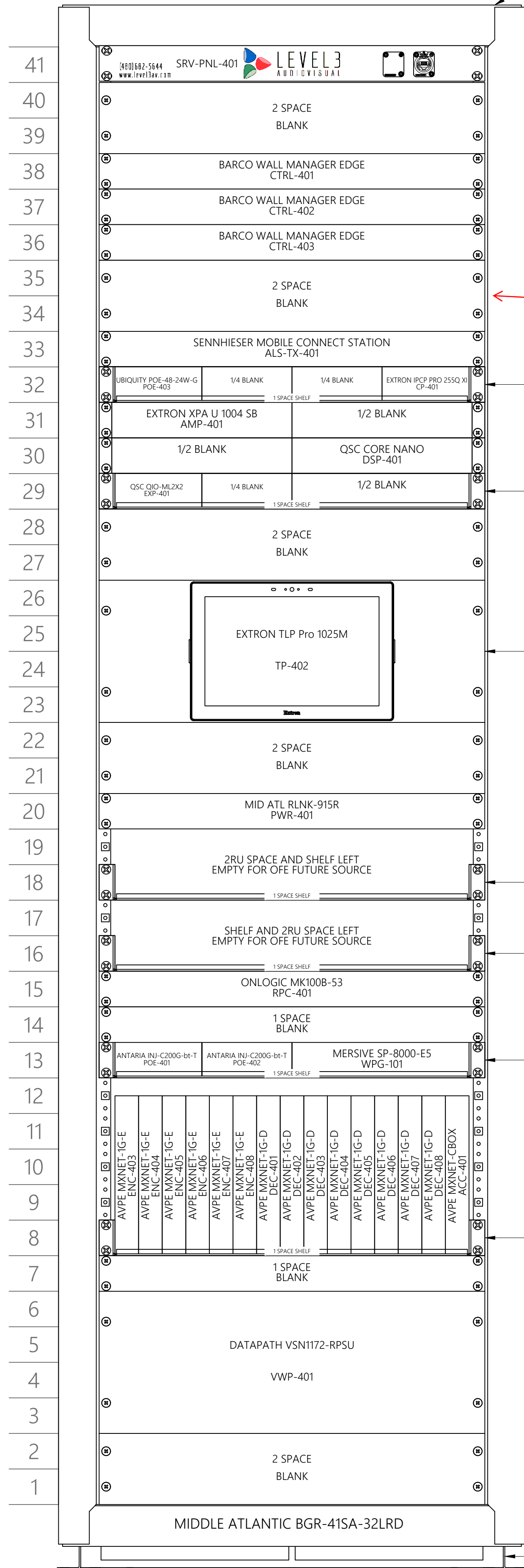
ROOM: M CONF ROOM (418)

HEET TITLE

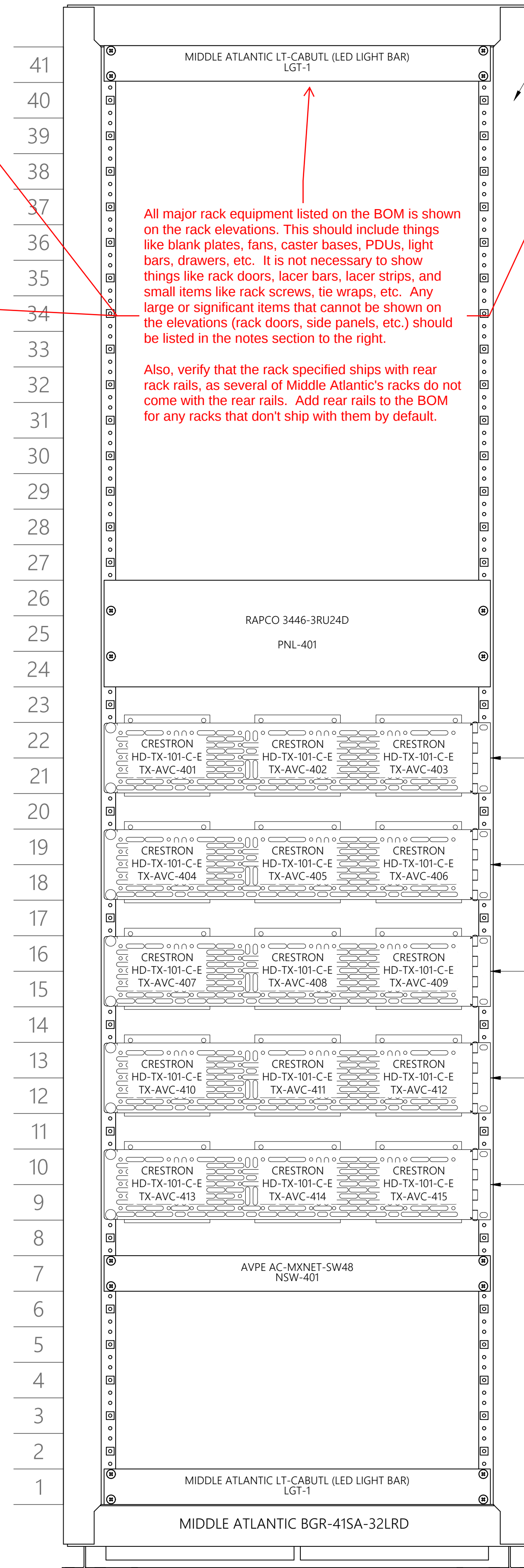
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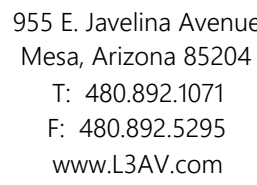
MID ATL BGR-552FT-FC FAN TOP



MID ATL PD-2420SC-NS
(VERTICAL MOUNT)



- BVFD-41 VENTED FRONT DOOR AND BGR-RDC41 CABLE-ENTRY REAR DOOR NOT SHOWN.
- THIS RACK IS PHYSICALLY LOCATED IN AV CLOSET 150-A AND SERVES ADJACENT MULTIPURPOSE ROOM 130.



LEVEL 3 AUDIOVISUAL

CLIENT:

L3AV DRAWING STANDARDS

PROJECT NAME:

955 E JAVELINA AVE, STE B106
PHOENIX, AZ
85204

SITE ADDRESS:

[illegible]

ISSUED FOR:

PROJECT NO.:	0000
--------------	------

SCALE: 3"=1

DRAWN BY: M. SHERWOOD

APPROVED BY:

BUILDING: GCRB

FLOOR: 01

ROOM: MULTI PURPOSE ROOM (130)

AV RACK ELEVATION

SHEET TITLE

TA701.1

SHEET NUMBER:

AV RACK ELEVATION - ER-401 - MUILTI PURPOSE ROOM (130)

Scale: 3" = 1'-0"

CLIENT:

PROJECT NAME:

SITE ADDRESS:

ISSUED FOR:

PROJECT NO.: 0000

SCALE: N/A

DRAWN BY: M. SHERWOOD

APPROVED BY:

BUILDING: GCRB

FLOOR: 01

ROOM: MULTI PURPOSE ROOM (130)

SHEET TITLE

SHEET NUMBER:

Power tables should be completed for every PDU and power strip. All equipment in a rack, lectern, etc. that connects to power should be accounted for, and power data should be included for all equipment.

Note that Circuit 1 is a 20A/120V circuit, but that the Circuit Capacity Used is nearly 100% even though the total load is only ~15A. This is because while the circuit is 20A, the PDU (PD-915R) is only rated for 15A. When you take into consideration the 80% de-rating that is required by the NEC (applies not only to circuits but to devices like PDUs), it would appear that we have too much equipment connected to the PDU.

However, not all equipment consumes the amount of power that is stated on the spec sheets, especially equipment like network switches, matrix switches, PoDM devices, PCs, etc. Because of this, you can sometimes exceed the 100% cap and still be in good shape. A general rule of thumb is to take 70-80% of the total amp load on a circuit (14.98A is this case) and use that as your guide. So in this case 80% of ~15A is ~12A and you are right at the theoretical limit for a de-rated 15A PDU.

Also of note here is that one of the connections is a redundant power connection for VWP-401. This would only ever draw power in the event that the primary power connection failed. When you factor that into the equation we are well under the limit.

Note that Circuit 2 is also a 20A/120V circuit, but here we have a PDU that is also rated for 20A. The total amp load on the circuit is 17.26A, which is a bit higher than 16A (20A circuit de-rated to 80%) but here again we have equipment specified that will likely not use the full amount of power that its spec sheet specifies.

As a rule of thumb, as long as you keep the total amp load under 100% you should be in good shape. However, when you have situations where the amp load is around 100% it is important to assess what equipment is being connected to determine if there is wiggle room. If this circuit was at 100% and all of the equipment connected were amplifiers, then you would want to look at adding an additional circuit or perhaps moving some of the amps to a different PDU located on a separate circuit that has available capacity.

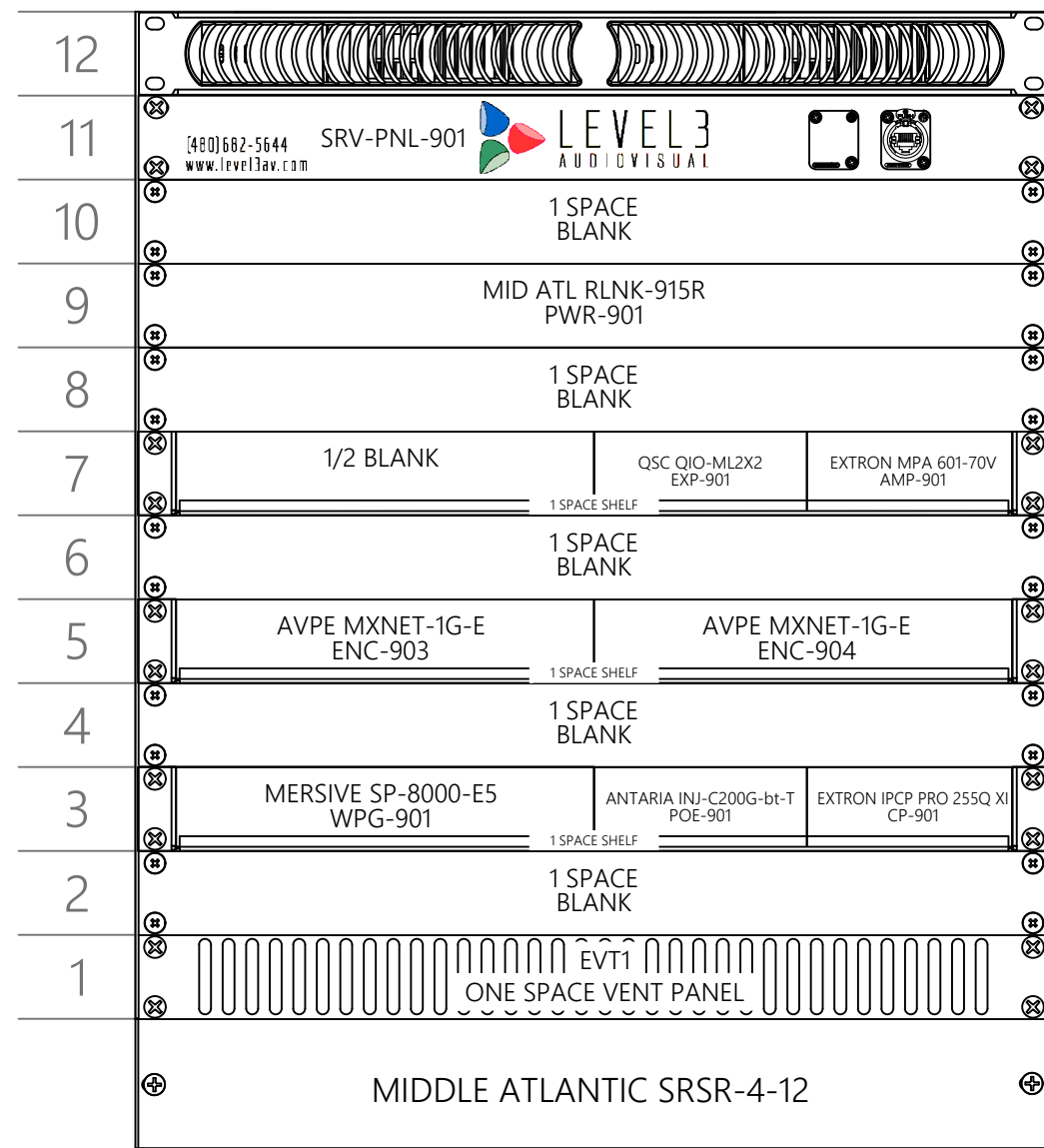


A

Scale: 3" = 1'-0"

RACK-901 / PWR-901									
		MIDDLE ATLANTIC	RLNK-915R	PWR-901	MAX AMPS: 15A	CONNECT 5-15P PLUG TO 5-20R RECP OF CIRCUIT 1			
PLUG		MAKE	MODEL	SVS-ID	AMPS	WATTS	BTU	NOTES	
1	5-15R	AV PRO EDGE	AC-MXNET-SW24	NSW-901	3.93A	471.0W	1,606.11 BTU/hr	MAX. DRAW	
2	5-15R	EXTRON	IPCP Pro 255Q xi	CP-901	0.1A	12.0W	46.92 BTU/hr	12 VDC PSU	
3	5-15R	EXTRON	MPA 601-70V	AMP-901	0.13A	15.1W	26.0 BTU/hr	12 VDC PSU	
4	5-15R	MERSIVE	SP-8000-E5	WPG-901	0.09A	10.2W	34.78 BTU/hr	12 VDC PSU	
5	5-15R	ANTARIA	PA-120-48-US	POE-901	1.0A	120.0W	409.2 BTU/hr	48 VDC PSU	
6	5-15R	MIDDLE ATLANTIC	QBP-2	FAN	0.0A	0.0W	0.0 BTU/hr	12 VDC PSU	
7	5-15R				0.0A	0.0W	0.0 BTU/hr		
8	5-15R				0.08A	10.08W	34.37 BTU/hr		
9	5-15R				0.0A	0.0W	0.0 BTU/hr		
TOTALS:					5.32A	638.38W	2,151.38 BTU/hr		
CIRCUIT: 1		20A / 5-20R		120V		TOTAL AMP LOAD:			5.32A
						CIRCUIT CAPACITY USED:			35.5%
						TOTAL HEAT OUTPUT:			2,151.38 BTU/hr

ER-901 - FRONT



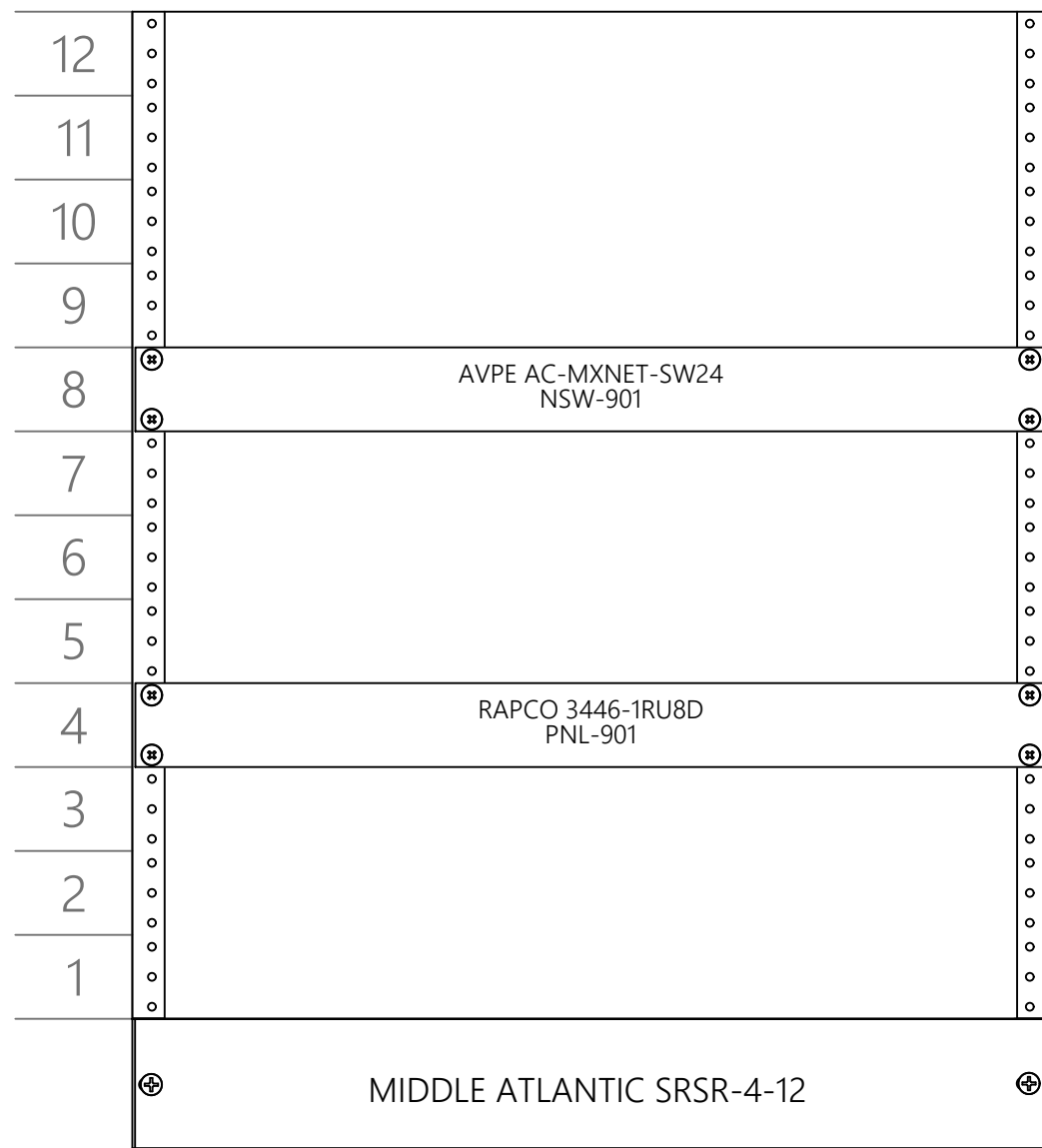
MID ATL QBP-2 BLOWER PANEL
(VERIFY VENTILATION LOCATION
OF CREDENZA AND REAR MOUNT
IF VENTILATION IS IN REAR OF
CREDENZA)

← QSC QIO-RMK SHELF

MID ATL UMS1-11.5K SHELF

MID ATL UMS1-11.5K SHELF

ER-901 - REAR



RACK BUILD NOTES



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Mesa, Arizona 85204
T: 480.892.1071
F: 480.892.5295
www.L3AV.com

LEVEL 3 AUDIOVISUAL

RELATED SHEET LINKS

TA204.1

TA304.1

TA404.1

TA604.1

CLIENT

L3AV DRAWING STANDARDS

PROJECT NAME

955 E JAVELINA AVE, STE B106
PHOENIX, AZ
85204

SITE ADDRESS:

[illegible]

ISSUED FOR:

PROJECT NO.: 0000

SCALE: 3"=1

DRAWN BY: M. SHERWOOD

APPROVED BY:

BUILDING: GCRB

FLOOR: 04

ROOM: M CONF ROOM (418)

AV RACK ELEVATION, POWER, & HEAT LOAD

SHEET TITLE

TA704.1

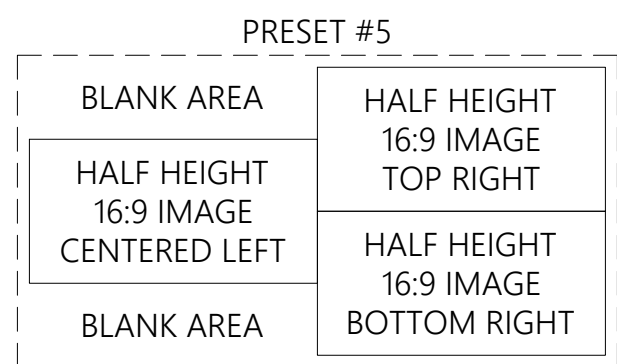
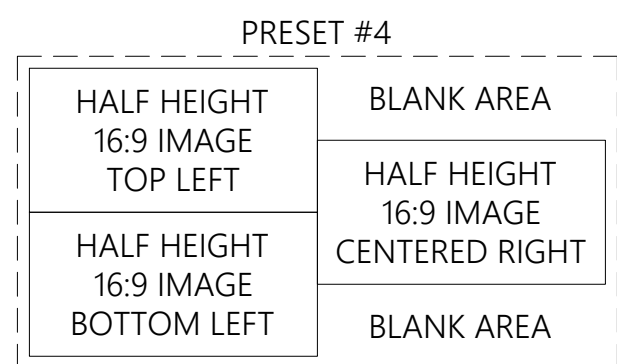
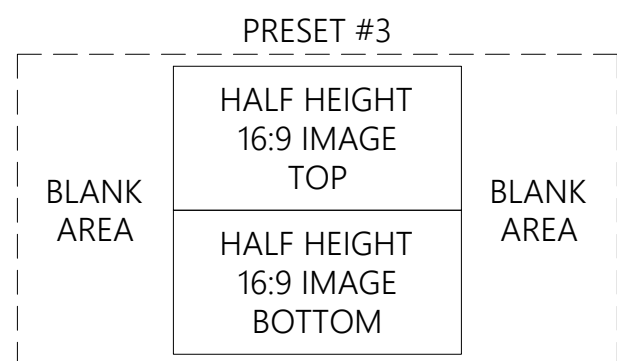
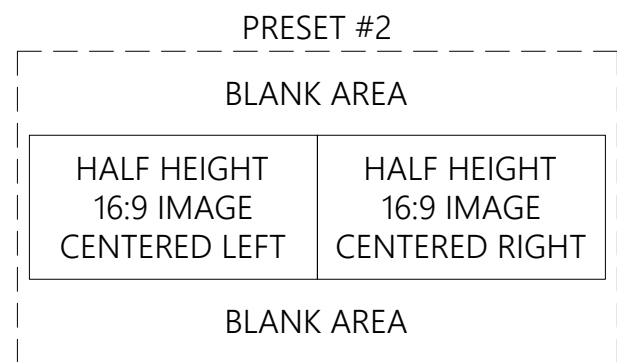
SHEET NUMBER

TA9 pages are optional, but can be used to convey additional useful information about a project. The page shown here is an excellent use case that both helps the Ops and Programming teams with configuration of video wall presets as well as provides the client with a visual representation of what video wall layouts they are getting with each wall.

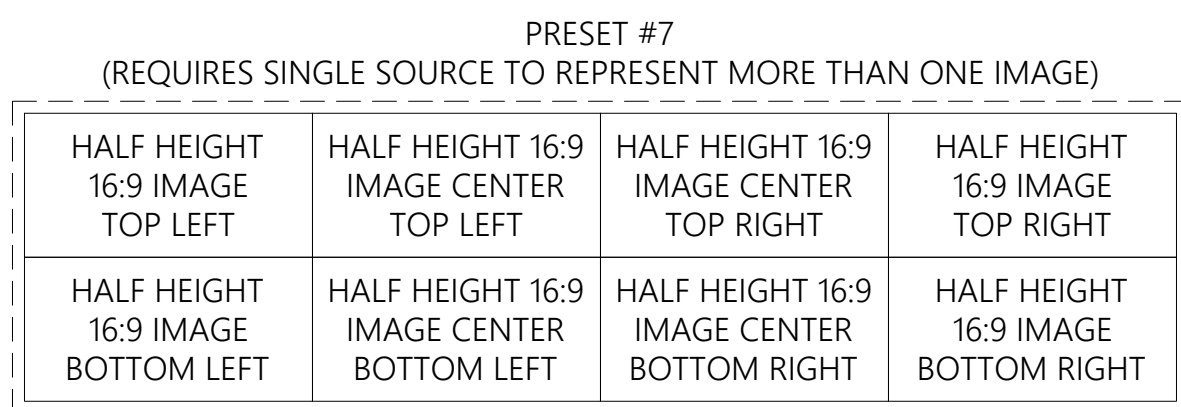
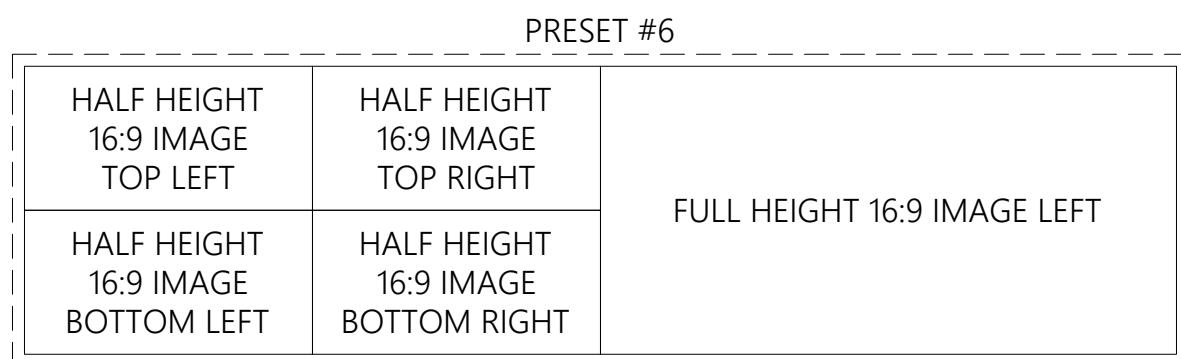
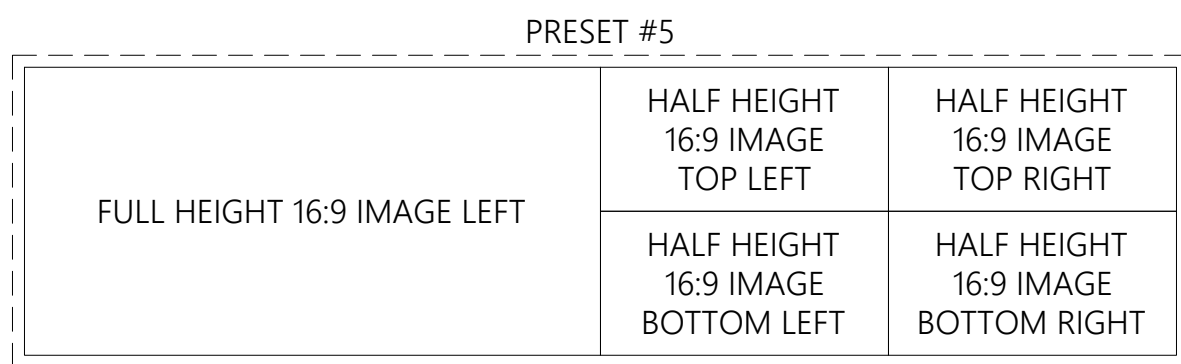
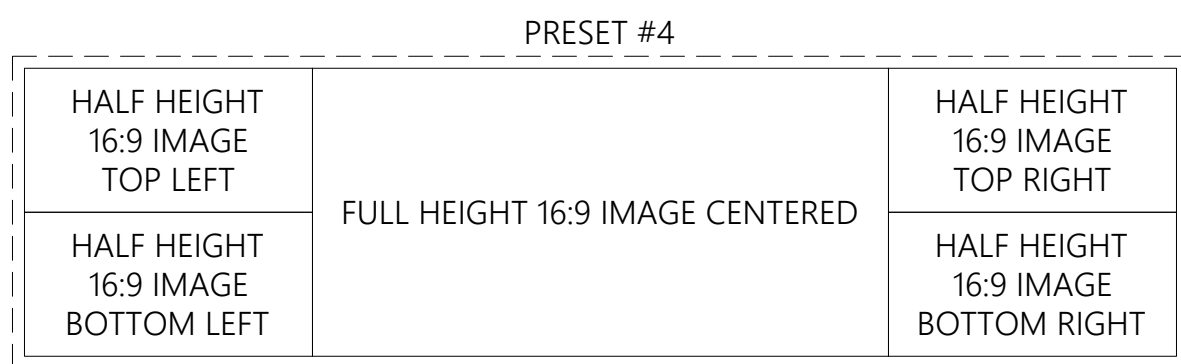
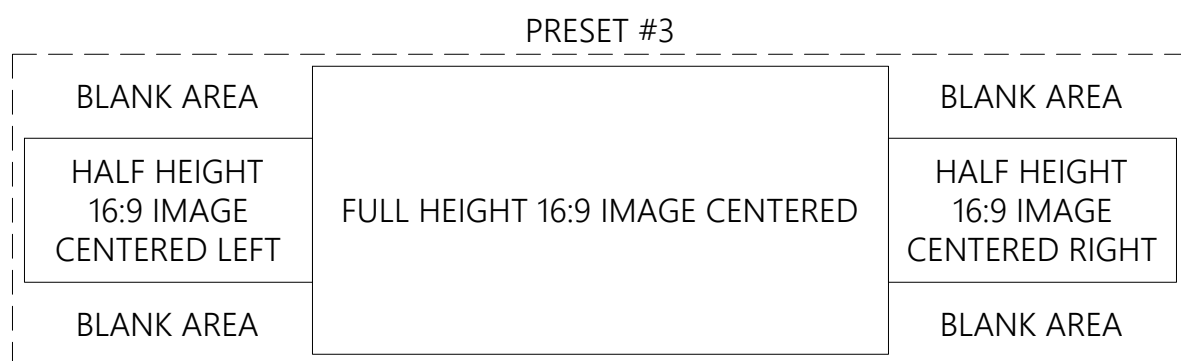
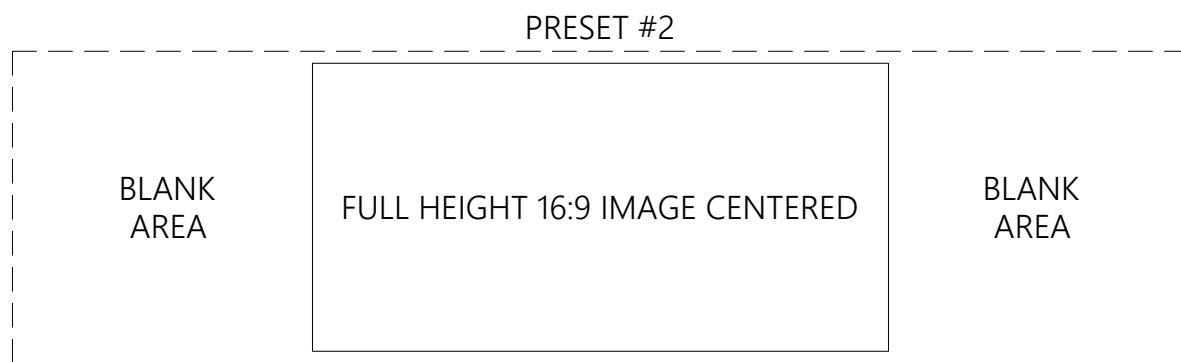
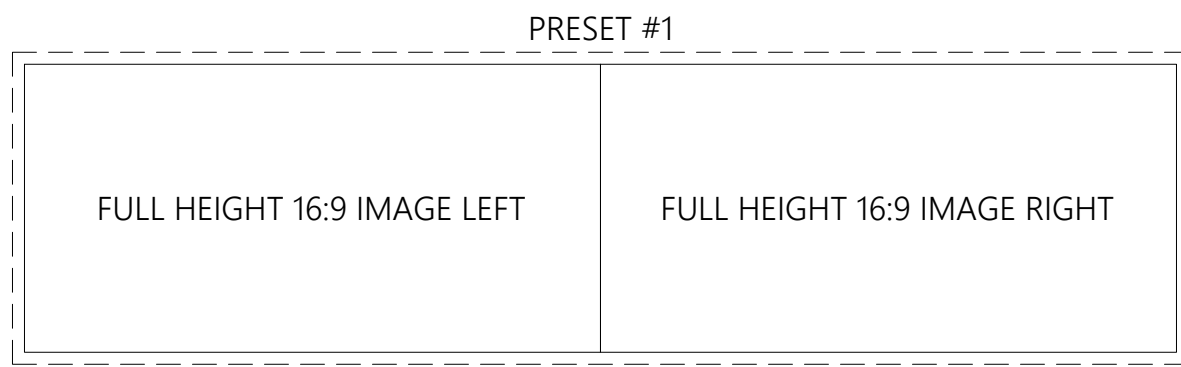
3X3 VIDEO WALL PRESET (NORTH)



4X4 VIDEO WALL PRESETS (WEST)



8X4 VIDEO WALL PRESETS (EAST)



ROUTING NOTES

- ALLOW DISPLAY OF SINGLE SOURCE AS MORE THAN ONE IMAGE ON VIDEO WALLS WITH MULTIPLE IMAGE CAPABILITY UTILIZING PRESETS REPRESENTING MULTIPLE IMAGES. (I.E. "SOURCE-1" AS CENTER IMAGE AND "SOURCE-2" AS BOTH LEFT AND RIGHT IMAGE OF 8X4 VIDEO WALL PRESET #3)
- PRESET #7 FOR 8X4 VIDEO WALL REQUIRES SINGLE SOURCE TO REPRESENT MORE THAN ONE IMAGE -OR- IMAGE AREAS LEFT WITHOUT AN IMAGE DISPLAYED. TWO (2) ADDITIONAL OWNER FURNISHED SOURCES HAVE BEEN PLANNED FOR IN THE FUTURE WHICH WILL ALLOW EIGHT (8) SEPARATE SOURCES IN THIS PRESET.
- SINGLE PRESET FOR 3X3 VIDEO WALL IS INTENTIONAL. MULTIPLE IMAGE FORMATS ON 3X3 WALL WOULD RENDER IMAGES LESS THAN 85-INCHES DIAGONAL, WHICH IS NOT USEFUL FOR THE SPACE. ADDITIONALLY, ANY MULTIPLE IMAGE FORMAT WOULD REQUIRE UTILIZATION OF "PARTIAL DISPLAYS".



LEVEL 3 AUDIOVISUAL

CLIENT:

L3AV DRAWING STANDARDS

PROJECT NAME:

955 E JAVELINA AVE, STE B106
PHOENIX, AZ
85204

SITE ADDRESS:

[illegible]

ISSUED FOR:

PROJECT NO.: 0000

SCALE: N/A

DRAWN BY: M. SHERWOOD

APPROVED BY:

BUILDING: GCRB

FLOOR: 01

ROOM: MULTI PURPOSE ROOM (130)

VIDEO WALL PRESET DETAILS

SHEET TITLE

TA901.1

SHEET NUMBER:

A

VIDEO WALL(S) PRESETS - MUILTI PURPOSE ROOM (130)