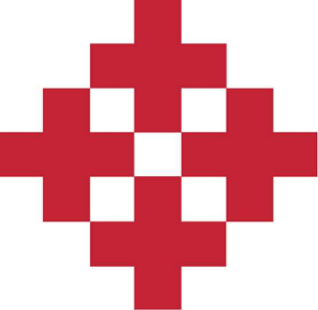


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FOR*

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| SHEET #          | DETAIL                  |                      |
|------------------|-------------------------|----------------------|
| DS18793-AV-Cover | COVER                   |                      |
| DS18793-AV-01    | FLOOR PLAN              | COURTROOM #1 (141)   |
| DS18793-AV-02    | FLOOR PLAN              | COURTROOM #2 (140)   |
| DS18793-AV-03    | FLOOR PLAN              | COURTROOM #3 (130)   |
| DS18793-AV-04    | REFLECTED CEILING PLANS |                      |
| DS18793-AV-05    | COURTROOM 1/3 (141/130) | VIDEO LINE DIAGRAM   |
| DS18793-AV-06    | COURTROOM 1/3 (141/130) | AUDIO LINE DIAGRAM   |
| DS18793-AV-07    | COURTROOM 1/3 (141/130) | CONTROL LINE DIAGRAM |
| DS18793-AV-08    | COURTROOM 2 (140)       | VIDEO LINE DIAGRAM   |
| DS18793-AV-09    | COURTROOM 2 (140)       | AUDIO LINE DIAGRAM   |
| DS18793-AV-10    | COURTROOM 2 (140)       | CONTROL LINE DIAGRAM |
| DS18793-AV-11    | SOUNDMASKING            |                      |
| DS18793-AV-12    | SOUNDMASKING            |                      |
| DS18793-AV-13    | SOUNDMASKING            |                      |



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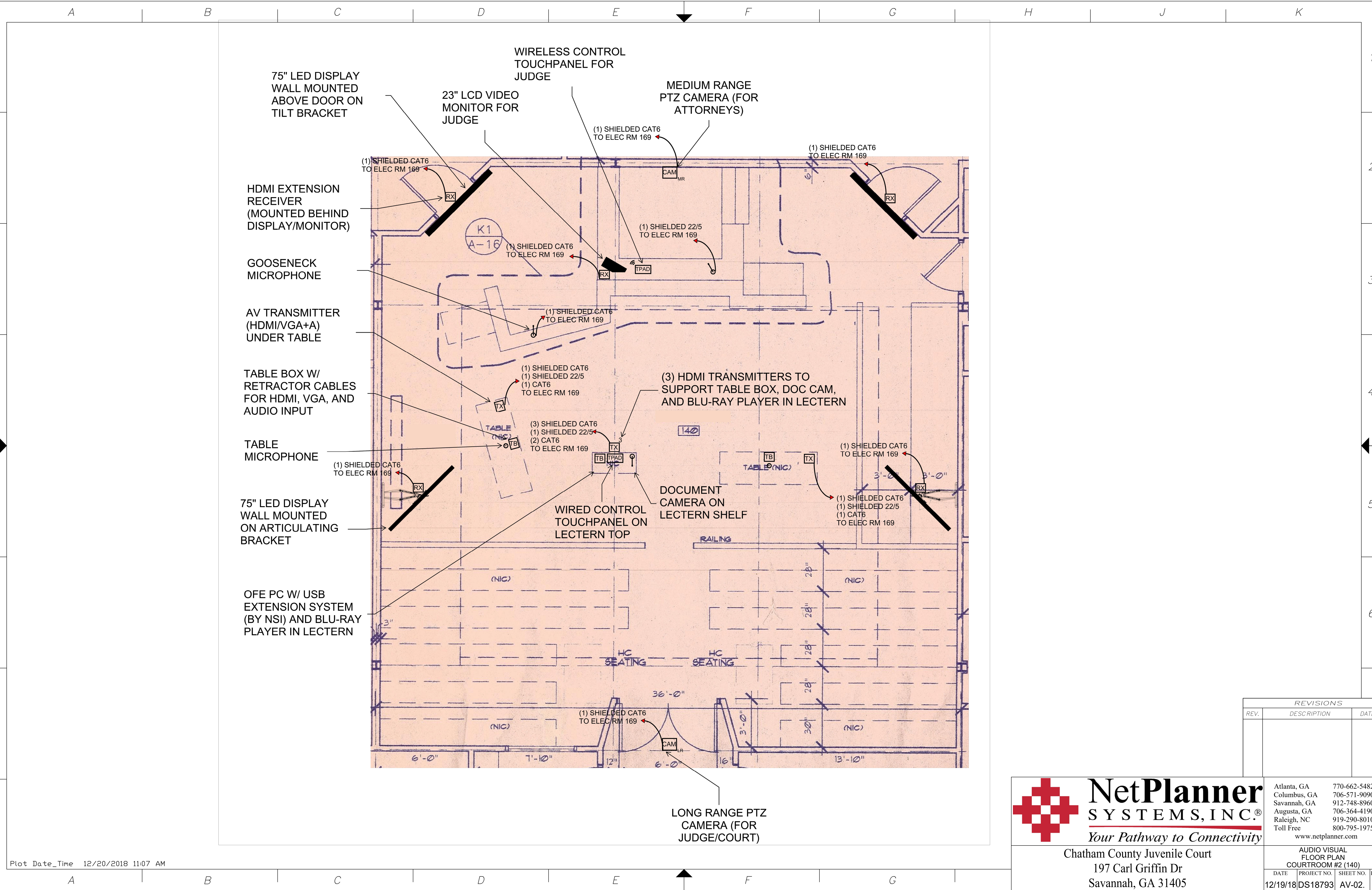
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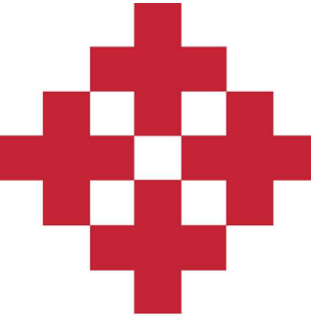
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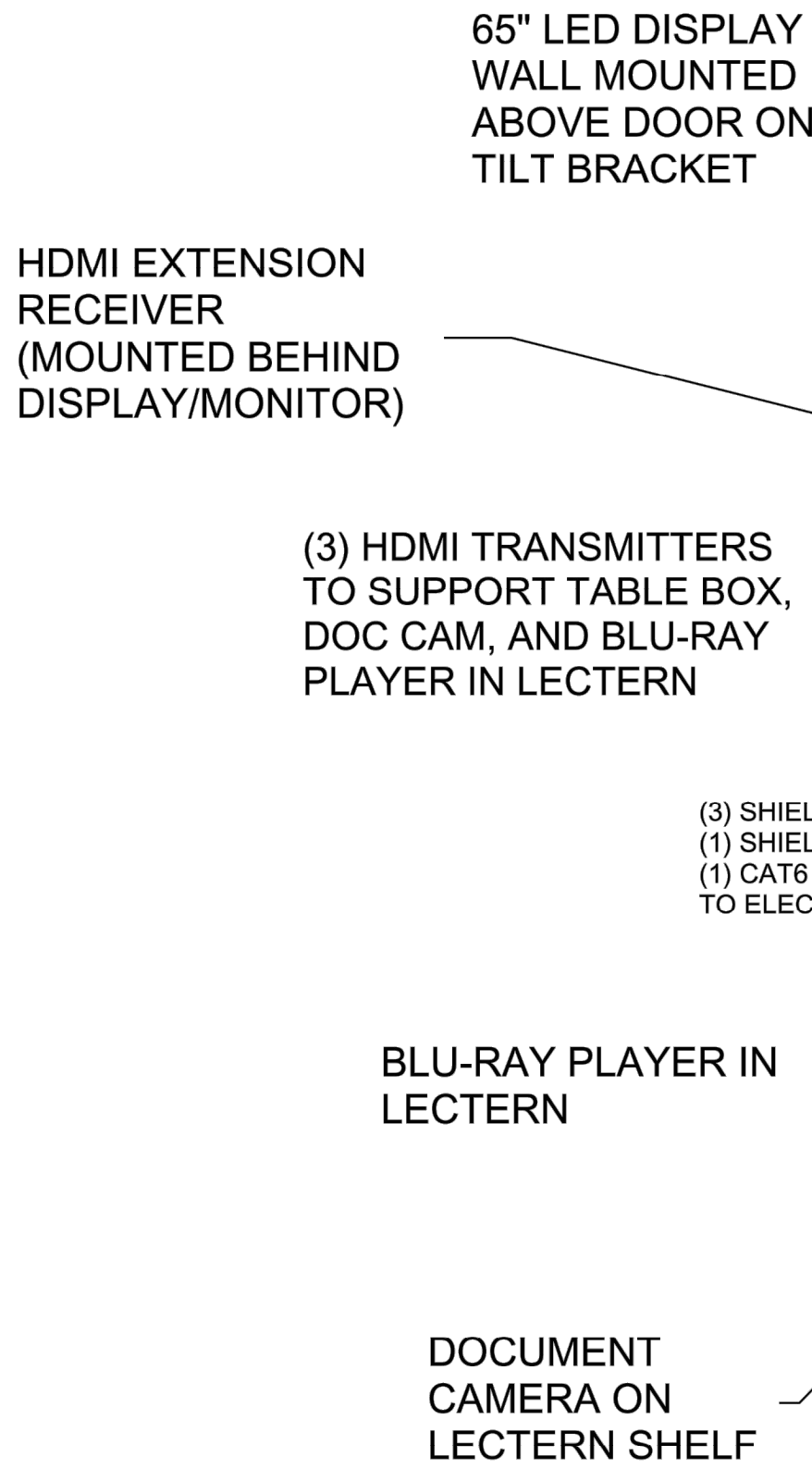
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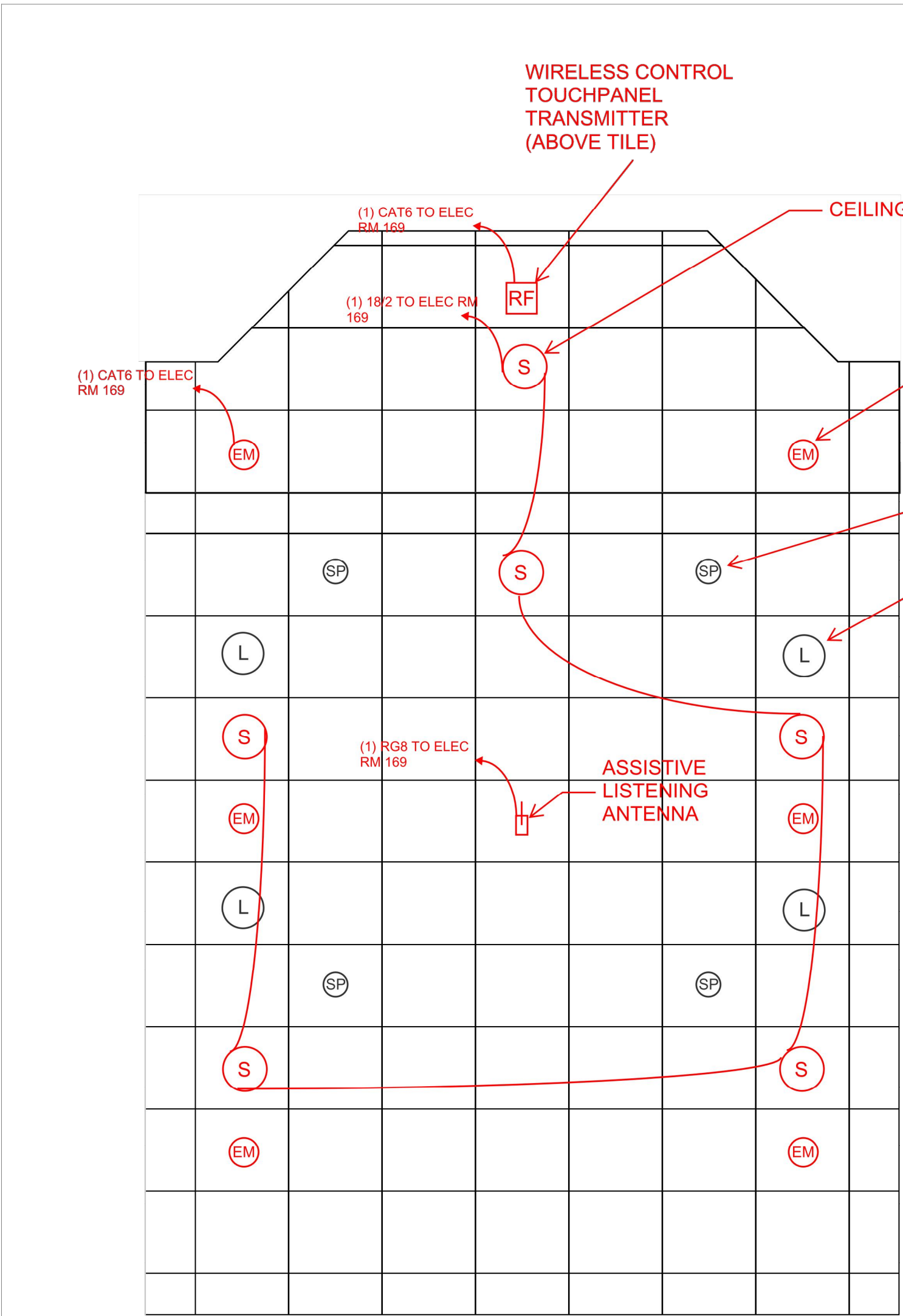
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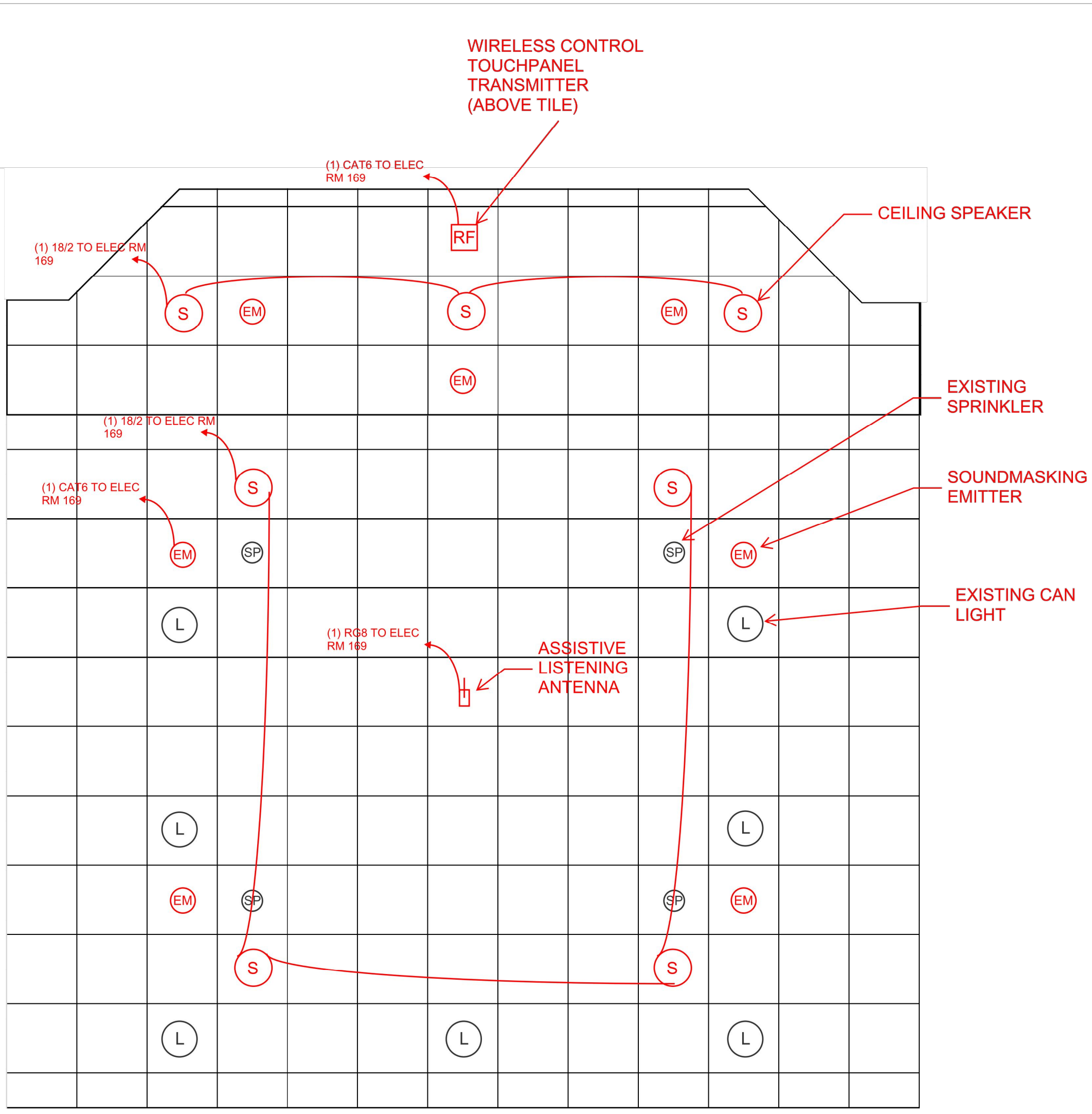
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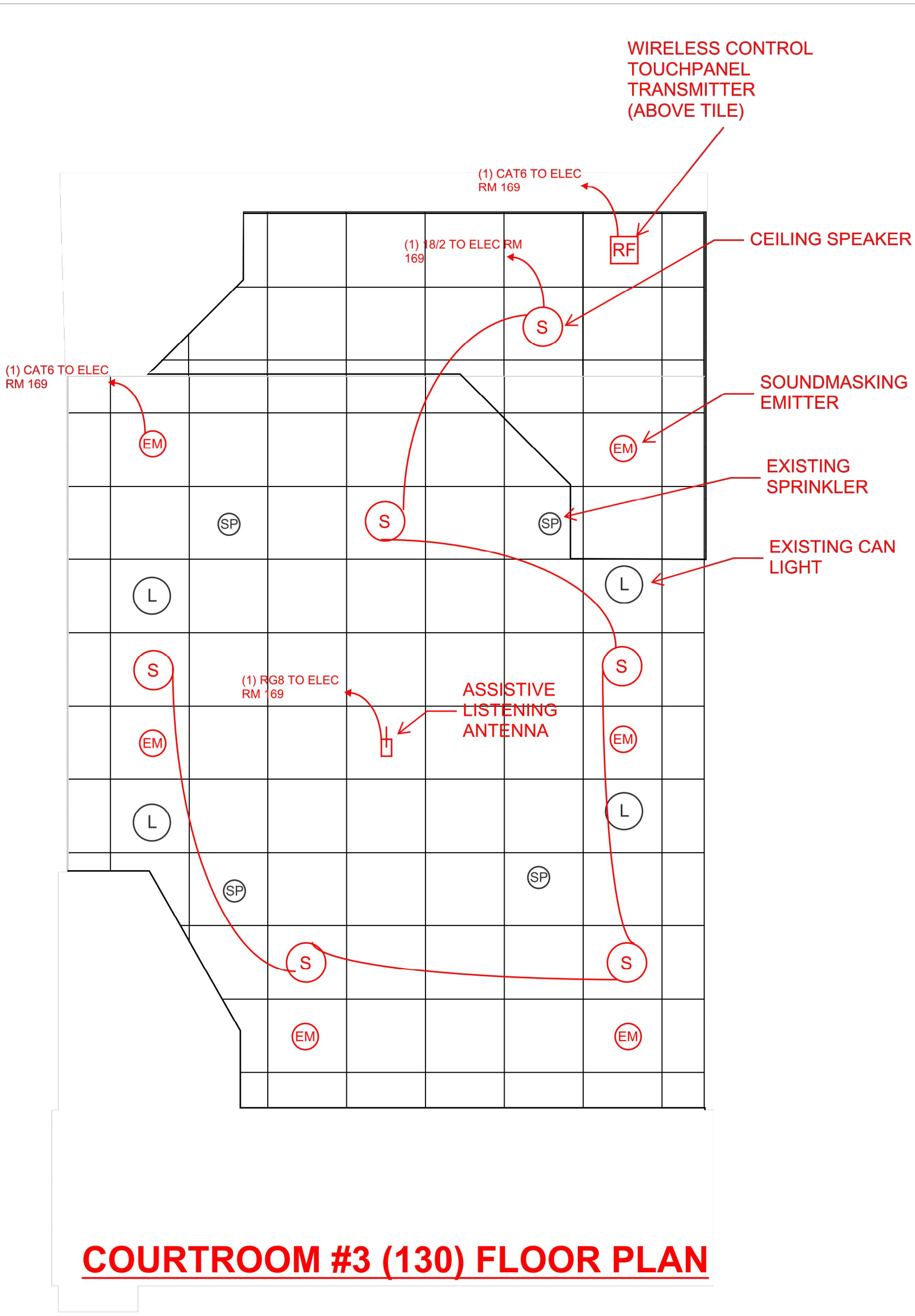
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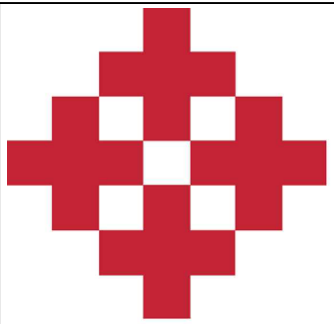
COURTROOM #1 (141) FLOOR PLAN



COURTROOM #2 (140) FLOOR PLAN



COURTROOM #3 (130) FLOOR PLAN

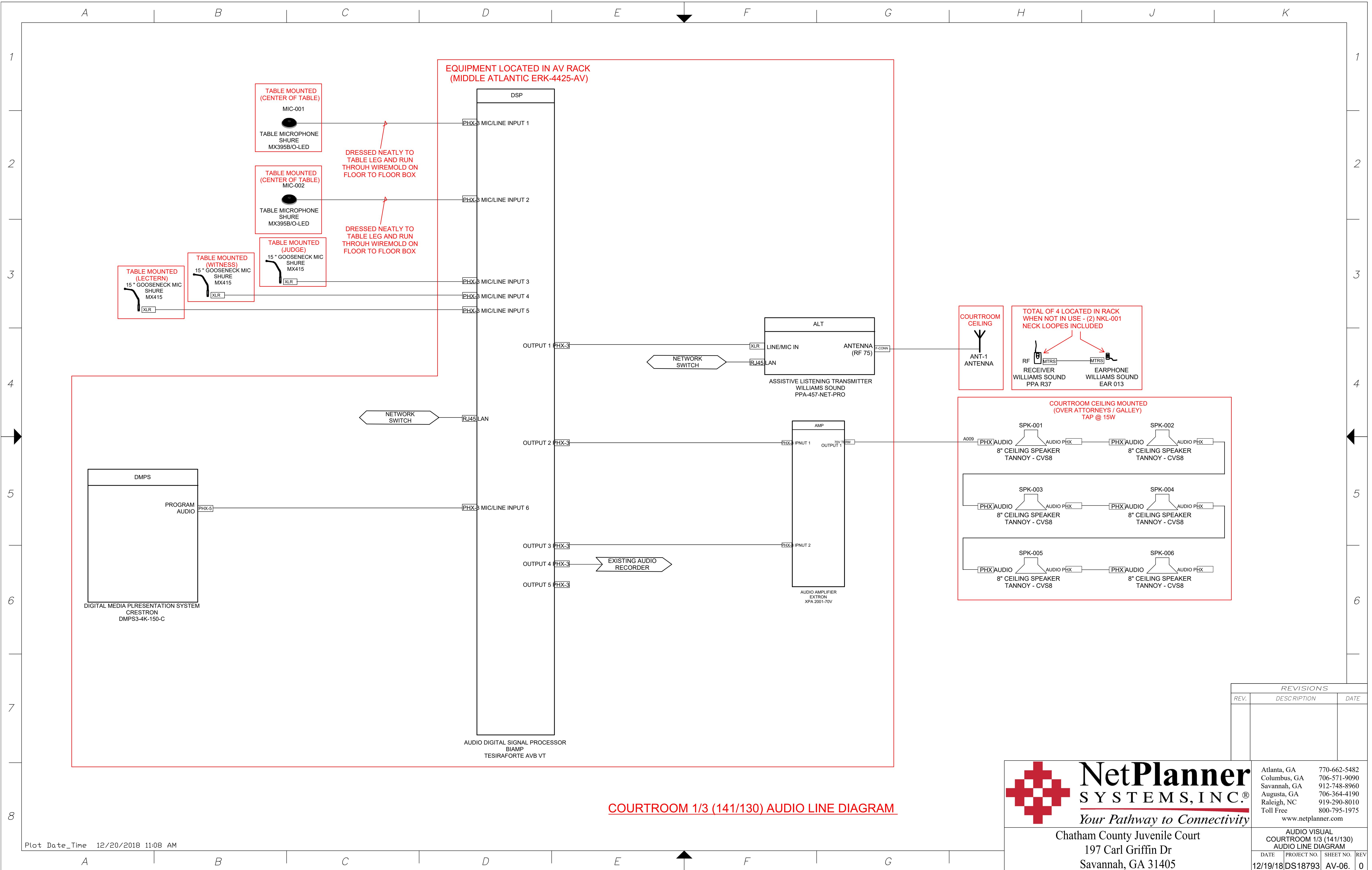


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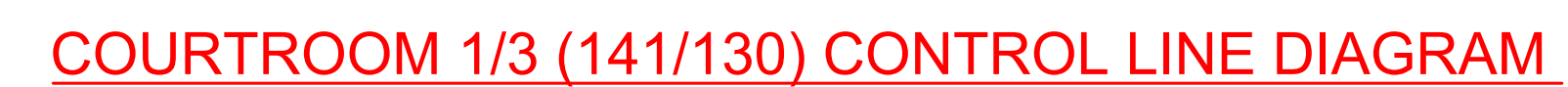
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COURTROOM 1/3 (141/130) AUDIO LINE DIAGRAM



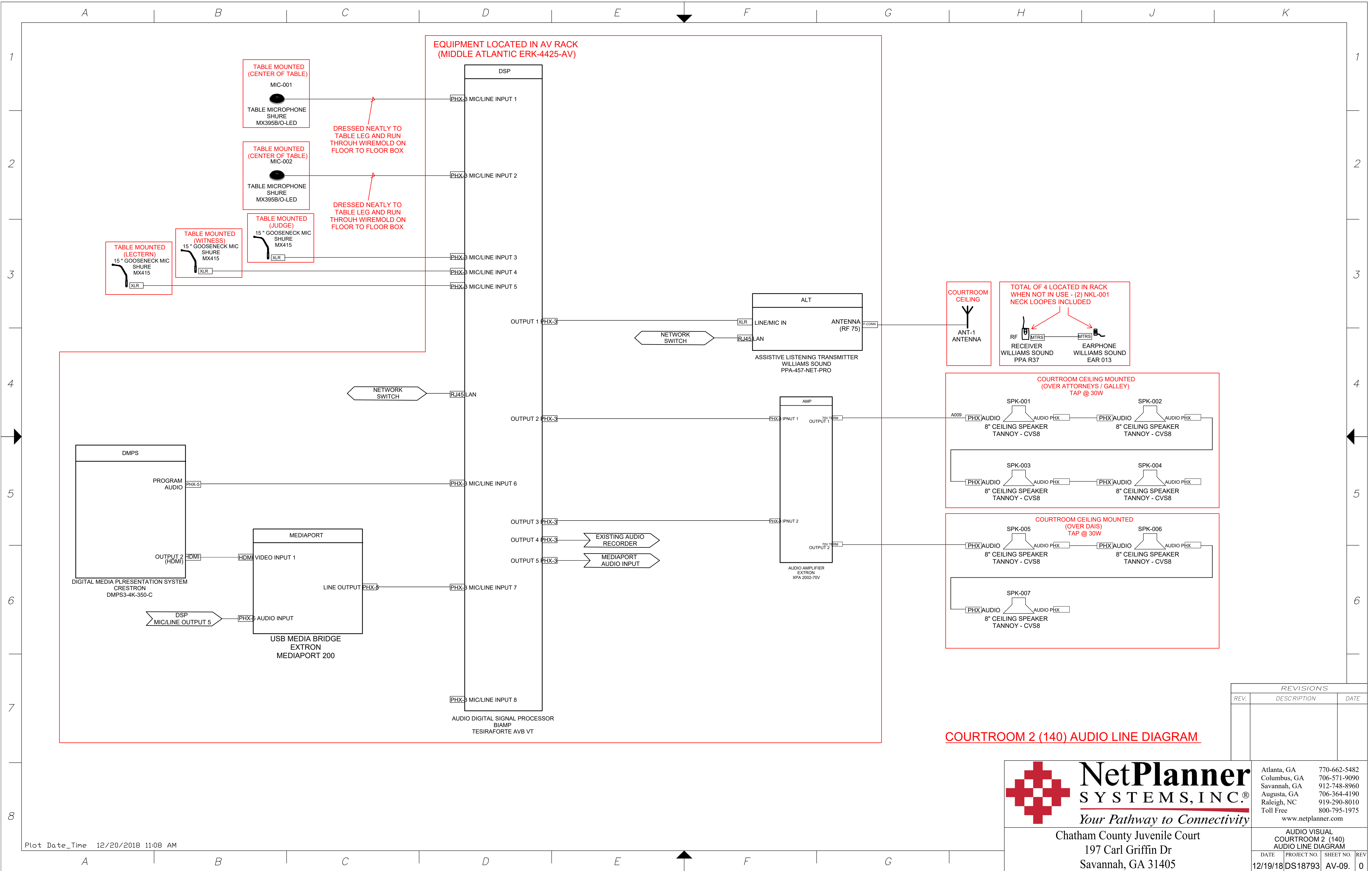
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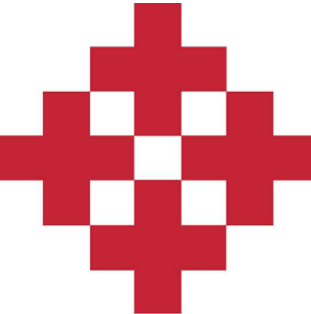
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| AUDIO LINE DIAGRAM<br>COURTROOM 1/3 (141/130)<br>CONTROL LINE DIAGRAM |             |           |     |
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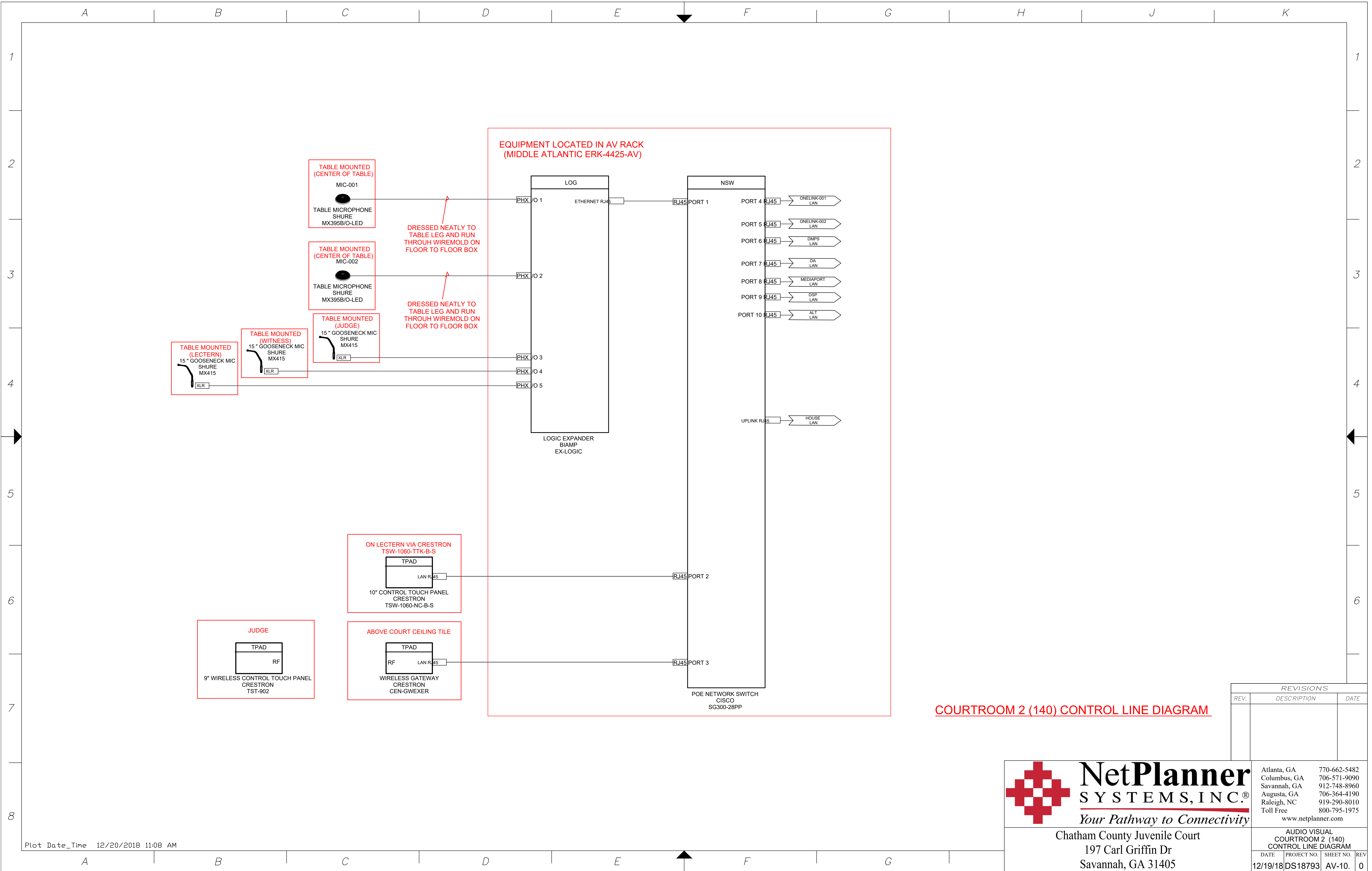
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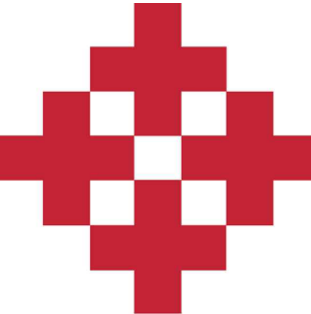
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| AUDIO VISUAL       |             |           |     |
| COURTROOM 2 (140)  |             |           |     |
| AUDIO LINE DIAGRAM |             |           |     |
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COURTROOM 2 (140) CONTROL LINE DIAGRAM

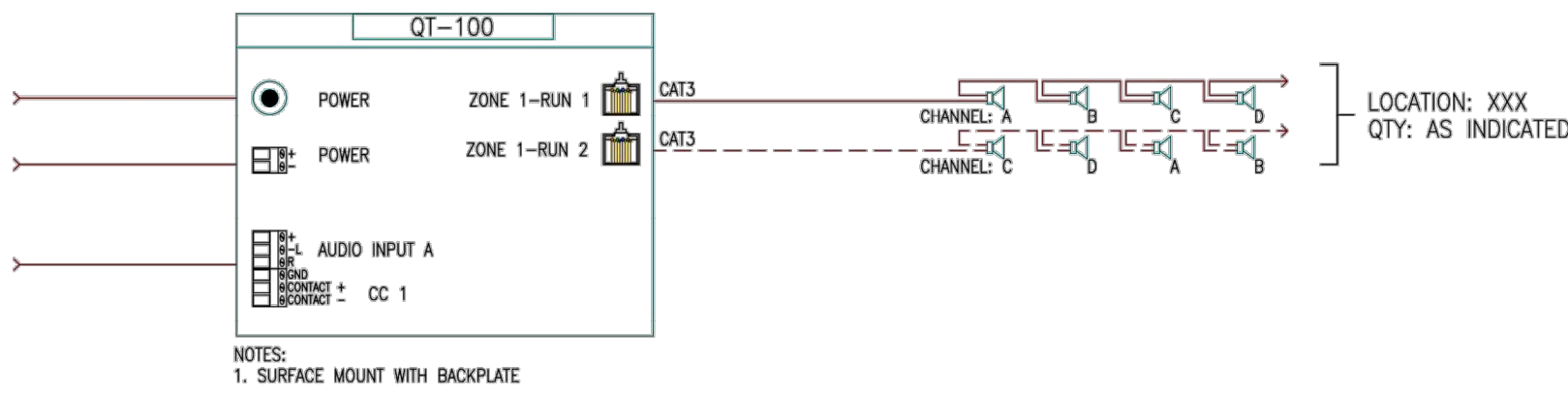
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| AUDIO VISUAL<br>COURTROOM 2 (140)<br>CONTROL LINE DIAGRAM |             |           |     |
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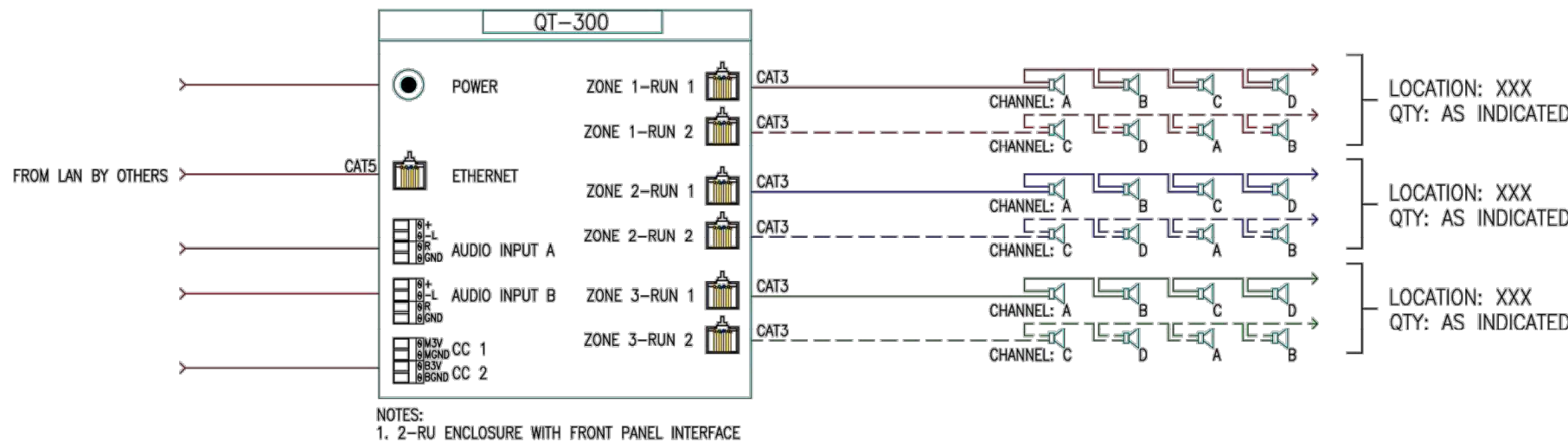
1 Qt100 - BLOCK DIAGRAM  
NOTE: ALL EMITTERS ARE CONNECTED IN DAISY-CHAIN FASHION AS INDICATED

- PLEASE REFER TO THE INSTALLATION AND OPERATIONS GUIDE FOR DETAILS PROVIDED WITH EACH CONTROL MODULE.
- EMITTER GRID SPACING IS DETERMINED BY CEILING HEIGHT CHART AND SHOULD BE NO LESS THAN EIGHT (8) FOOT CENTERS AND NO MORE THAN TWELVE (12) FOOT CENTERS.
- EMITTERS MUST BE BETWEEN TWO (2) FEET AND SIX (6) FEET FROM ANY GIVEN WALL, SOFFIT, COLUMN, OR OTHER STRUCTURE THAT WILL BLOCK SOUND.
- EMITTERS SHOULD BE CENTERED IN CEILING TILE WHENEVER POSSIBLE.
- ANY EMITTER MAY BE MOVED UP TO TWO (2) FEET IN ANY DIRECTION TO AVOID CONFLICTS WITH LIGHTS, VENTS OR OTHER FIXTURES.
- DAISY CHAINS CAN HAVE UP TO 60 SPEAKERS OR 1000 FEET OF CABLE, WHICHEVER COMES FIRST.
- CABLES MANUFACTURED BY OTHERS MUST FOLLOW THE CUSTOM CABLING GUIDELINES AND BE TESTED FOR CONTINUITY.
- DO NOT REVERSE THE EMITTER INPUT AND OUTPUT FOR ANY REASON. IF AN EMITTER DOES NOT PLAY MASKING WHEN AN INPUT IS CONNECTED, CHECK 4 PREVIOUS CABLES AND SPEAKERS FOR PROBLEMS. IF THE ISSUE PERSISTS, CONTACT THE MANUFACTURER.
- ALL SYSTEMS USE 4 MASKING CHANNELS. AVOID HAVING EMITTERS OF THE SAME CHANNEL NEXT TO ONE ANOTHER TO AVOID INTERFERENCE. CATTYCORNER IS ACCEPTABLE. EMITTERS CONFIGURE THEMSELVES TO A CHANNEL BASED ON THEIR POSITION IN THE CHAIN FROM CHANNEL 1 TO CHANNEL 4.

- ALL EMITTERS AND CONTROL MODULES USE RJ-45 CONNECTORS USING TIA-568B WIRING SCHEME.
- ALL EMITTERS HAVE SMART TECHNOLOGY THAT WILL TAKE THE CHANNEL FROM THE PREVIOUS EMITTER AND CHANGE TO THE NEXT CHANNEL AUTOMATICALLY.
- THE FIRST EMITTER IN THE RUN IS (A) THE SECOND EMITTER IS (B) THE THIRD EMITTER IS (C) AND THE FOURTH IS (D) IT THEN REVERTS BACK TO THE SAME SEQUENCE FOR ALL EMITTERS ON THAT SAME RUN (I.E. A-B-C-D, A-B-C-D, A-B-C-D).
- EACH PORT ON THE CONTROL MODULE CYCLES STARTING CHANNELS. PORT 1 STARTS CHANNEL (A) PORT 2 STARTS CHANNEL (C).
- SIMILAR CHANNELS CAN NOT BE PERPENDICULAR OR ADJACENT FROM ONE ANOTHER BUT MAY BE DIAGONAL.
- TO AVOID CHANNEL INTERFERENCE A SERPENTINE WIRING PATTERN SHOULD BE USED.
- NOTE THE INPUT AND OUTPUT PORTS ON EACH EMITTER. SYSTEM WILL NOT OPERATE CORRECTLY IF THESE ARE NOT STRICTLY FOLLOWED. DO NOT CONNECT AN INPUT LINE TO THE OUTPUT CONNECTION TO CORRECT SPEAKERS NOT WORKING PROPERLY.
- MOUNT EMITTERS IN CENTER OF ACOUSTICAL TILES UNLESS OTHERWISE SHOWN.
- CUSTOM CABLES SHOULD BE TESTED BEFORE ADDING IT TO THE SYSTEM.
- FOLLOWING INSTALLATION AND OPERATION GUIDES WILL HELP PREVENT POSSIBLE ISSUES.

2 INSTALLATION NOTES  
NOTE:

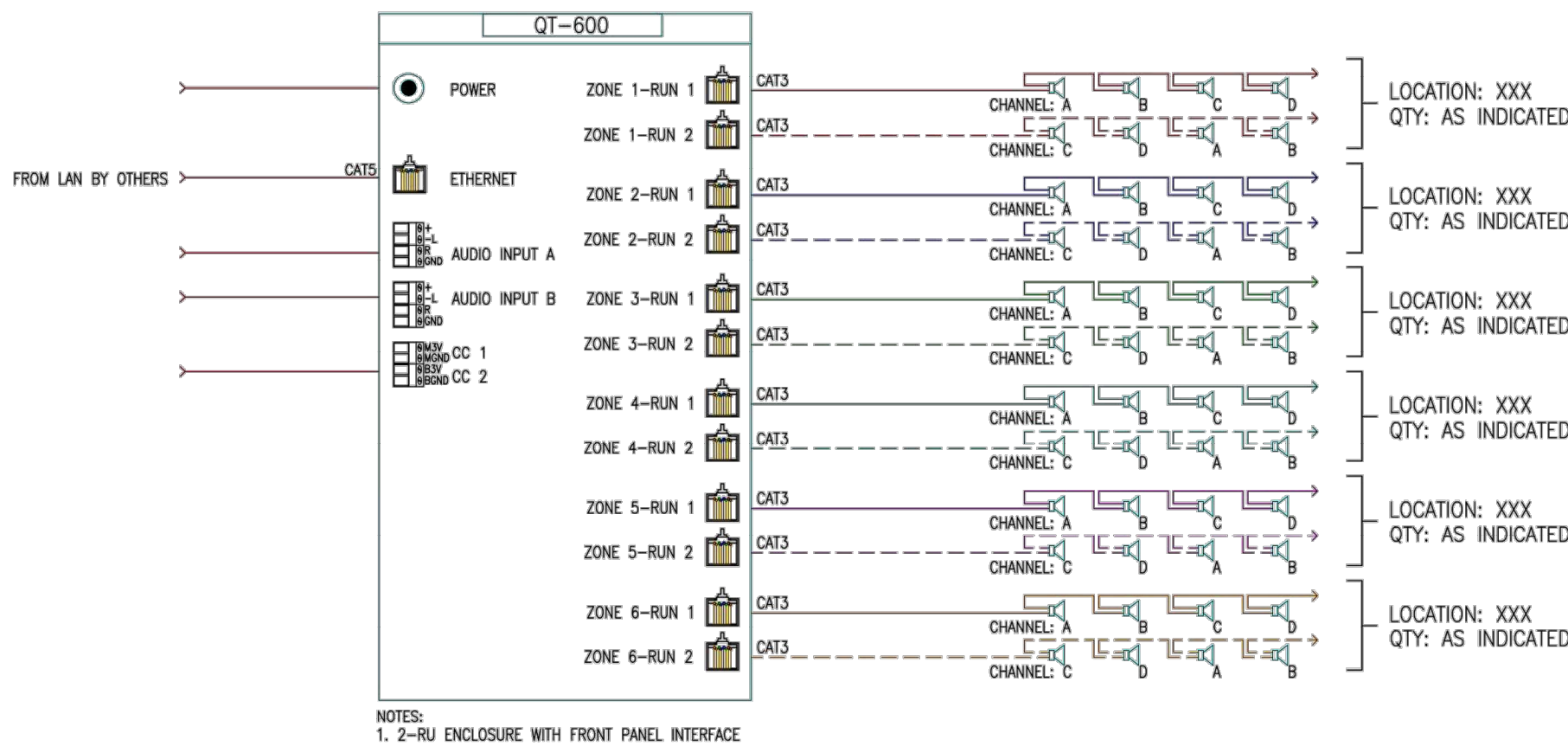
3 WIRING NOTES  
NOTE:



4 Qt300 - BLOCK DIAGRAM  
NOTE: ALL EMITTERS ARE CONNECTED IN DAISY-CHAIN FASHION AS INDICATED

|       |                                        |
|-------|----------------------------------------|
| Qt100 | WALL MOUNTED ONE ZONE CONTROL MODULE   |
| Qt300 | WALL MOUNTED THREE ZONE CONTROL MODULE |
| Qt600 | WALL MOUNTED SIX ZONE CONTROL MODULE   |
| Rt300 | RACK MOUNTED THREE ZONE CONTROL MODULE |
| Rt600 | RACK MOUNTED SIX ZONE CONTROL MODULE   |
| QD    | WALL MOUNTED ROOM VOLUME CONTROL       |

5 SOUND MASKING PLAN DEVICES  
NOTE:



7 Qt600 - BLOCK DIAGRAM  
NOTE: ALL EMITTERS ARE CONNECTED IN DAISY-CHAIN FASHION AS INDICATED

| ZONE TYPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CEILING HEIGHT         | VOLUME LEVEL | INTENDED RESULT |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------|-----------------|
| OPEN OFFICE AREAS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | < 9' [2.75m]           | 13 - 16      | 45 - 48 dBA     |
| OPEN OFFICE AREAS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 9' - 10' [2.75 - 3m]   | 14 - 17      | 45 - 48 dBA     |
| OPEN OFFICE AREAS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 10' - 11' [3.0 - 3.3m] | 15 - 18      | 45 - 48 dBA     |
| OPEN OFFICE AREAS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 11' - 12' [3.3 - 3.6m] | 16 - 19      | 45 - 48 dBA     |
| OPEN OFFICE AREAS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | > 12' [3.6m]           | 17 - 20      | 45 - 48 dBA     |
| PRIVATE OFFICE AREAS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ALL                    | 5 - 9        | 38 - 42 dBA     |
| NOTES:<br>- WARNING! - CONFIGURE QT CONTROL PROCESSOR FOR PROPER EMITTER TYPE PRIOR TO ADJUSTMENT.<br>- ALL LEVELS SHOULD BE MEASURED AND VERIFIED WITH A SOUND LEVEL METER USING A STANDARD "M" WEIGHTING ON SLOW RESPONSE. ALL MEASUREMENTS SHOULD BE RECORDED AT 4' (1.2M) ABOVE THE FLOOR (REFER TO ASTM E1573 FOR A STANDARDIZED PROCEDURE OF MEASURING SOUND MASKING LEVELS)<br>- ALL LEVELS PROVIDED ARE INTENDED AS DAYTIME LEVELS FOR TYPICAL WORKPLACE ENVIRONMENTS<br>- LEVELS FOR HALLWAYS, CORRIDORS, TRANSITIONAL SPACES, LOBBIES, ETC. SHOULD MATCH ADJACENT AREAS TO PROVIDE CONSISTENT/UNOBTRUSIVE COVERAGE |                        |              |                 |

8 SOUND MASKING LEVELS  
NOTE:

| OPEN OFFICES / HALLWAYS        |                         | PRIVATE OFFICES                      |                                        | RECOMMENDED PRIVATE OFFICE LAYOUT |
|--------------------------------|-------------------------|--------------------------------------|----------------------------------------|-----------------------------------|
| CEILING HEIGHT                 | EMITTER GRID SPACING    | ROOM SIZE                            | EMITTER QUANTITY                       |                                   |
| < 9' [2.75m]                   | 8' X 8 [2.4m X 2.4m]    | < 180 SQ FT [16.7 SQ m]              | 2                                      |                                   |
| 9' to 10' - 11" [2.7m to 3.3m] | 10' X 10' [3m X 3m]     | 181 to 260 SQ FT [16.8 to 24.1 SQ m] | 3                                      |                                   |
| 11' to 14' [3.4m to 4.3m]      | 12' X 12' [3.6m X 3.6m] | 261 to 340 SQ FT [24.2 to 31.5 SQ m] | 4                                      |                                   |
| > 14' [4.3m]                   | CALL CSM                | > 341 SQ FT [31.6 SQ m]              | + 1 FOR EVERY 80 SQ FT [7.4 SQ m] MORE |                                   |

9 LAYOUT GUIDELINES FOR CLOSED SPACES  
NOTE:

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1  
SM0.1

EMITTER MOUNTING

NOTE: TYPICAL ACT MOUNTING

2  
SM0.1

CONTROL MODULE WALL MOUNTING

NOTE:

## Qt 300/600 Introduction

### Installing the Control Module

NOTE: Always plug/unplug power supply at wall outlet  
NOTE: The Qt 600 is shown in the figures, but the Qt 300 installs in the same manner.

#### Wall Mount

Mount the bracket using the three screws and plastic anchors (mollies) provided. Use a ¼ inch drill bit for the anchor hole. See Figure 1.

Plastic anchors are #10-12 x 1¼ in. with #10 x 1½ screws.

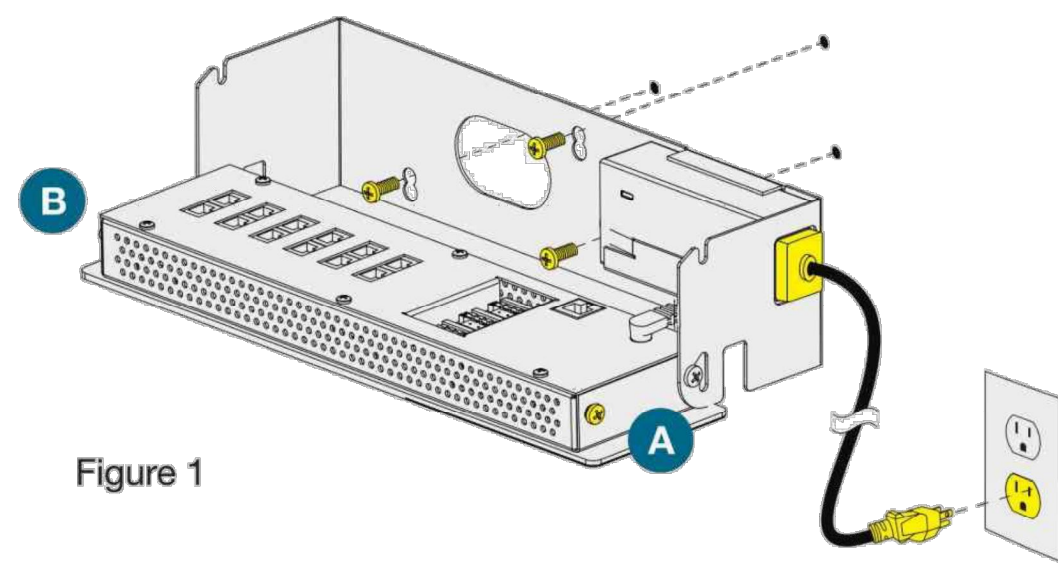
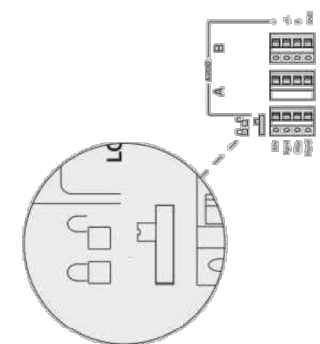


Figure 1

NOTE: The control module hinges forward for wall mounting and cable installation. To hinge forward, loosen screws A and B (see Figure 1) used to secure the module during shipping.



Check to see that the panel lock switch is in the UN-LOCKED position.

3  
SM0.1

CONTROL MODULE WALL MOUNTING

NOTE:

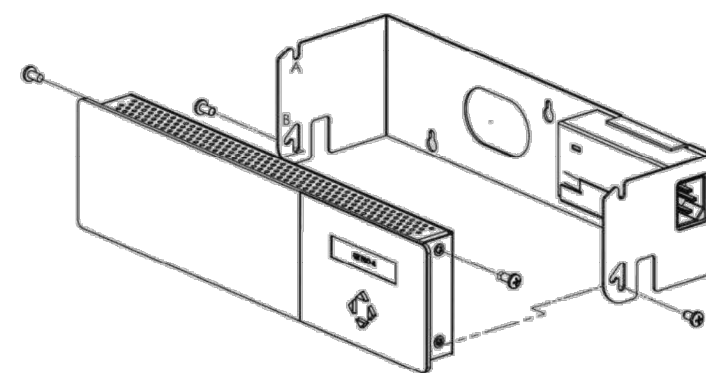
#### Rack Mount

Attach optional rack mount brackets to each end of the control module.

NOTE: When rack mounted, the control module does not hinge forward.

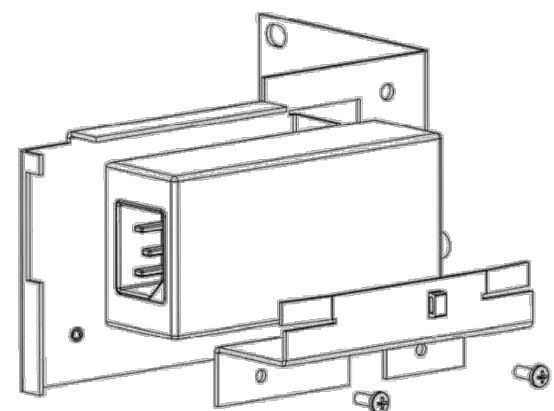
#### Step 1

Remove the QtPro and power supply bracket from wall mount bracket.



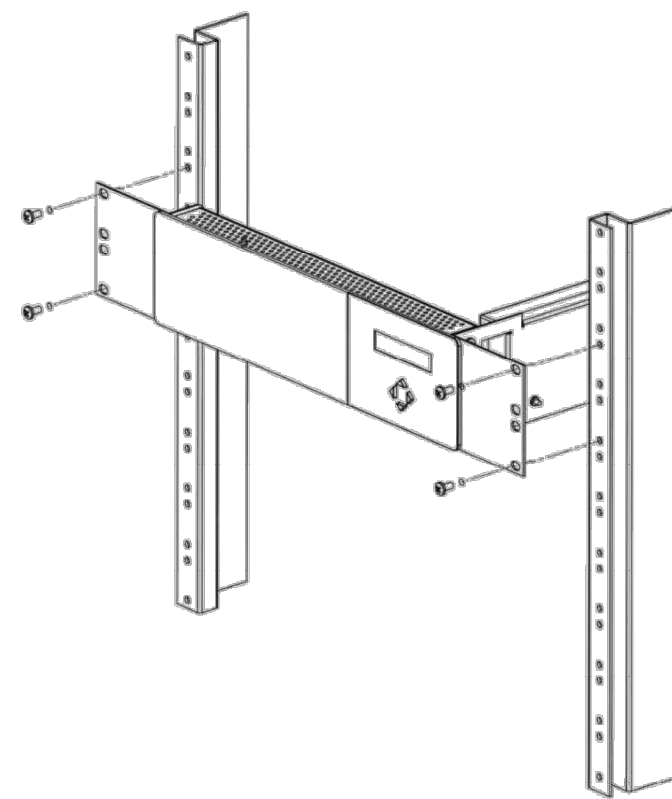
#### Step 2

Reassemble power supply to right rack mount bracket using 6:32 black screws (included with bracket).



#### Step 3

Fasten left and right rack mount brackets to QtPro using the screws removed in Step 1.



#### Step 4

Mount QtPro to 19" cabinet rail using 10:32 screws as shown (included with bracket).

4  
SM0.1

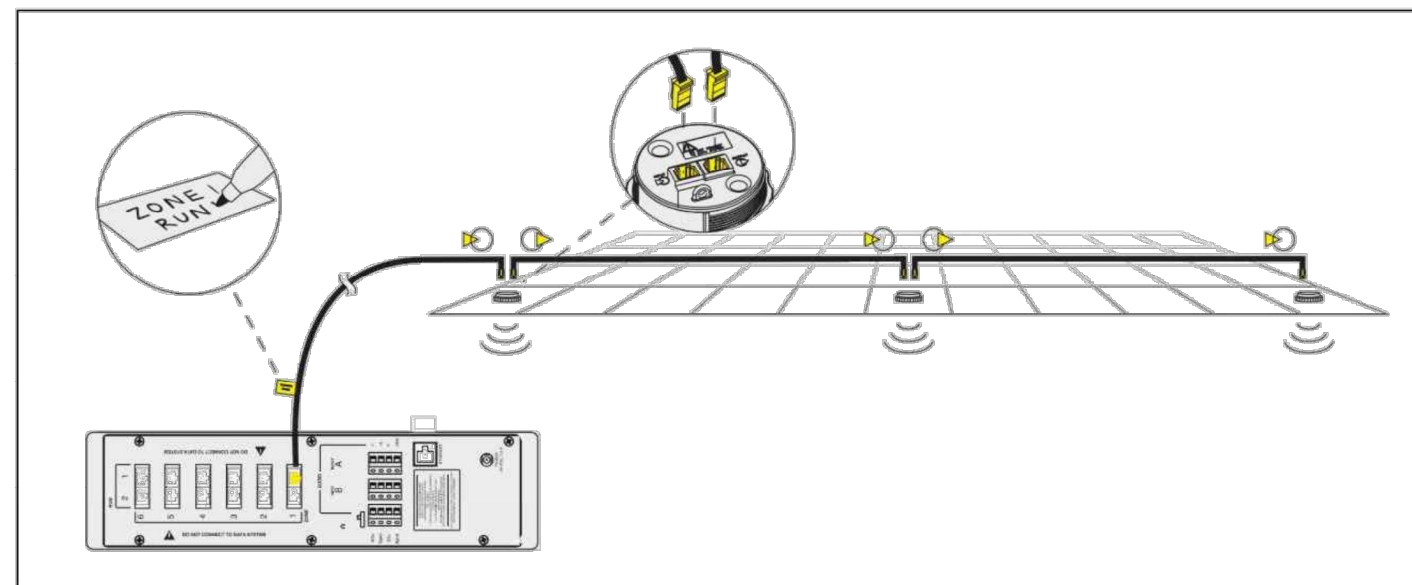
CONTROL MODULE RACK MOUNTING

NOTE:

5  
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DAISY CHAIN WIRING

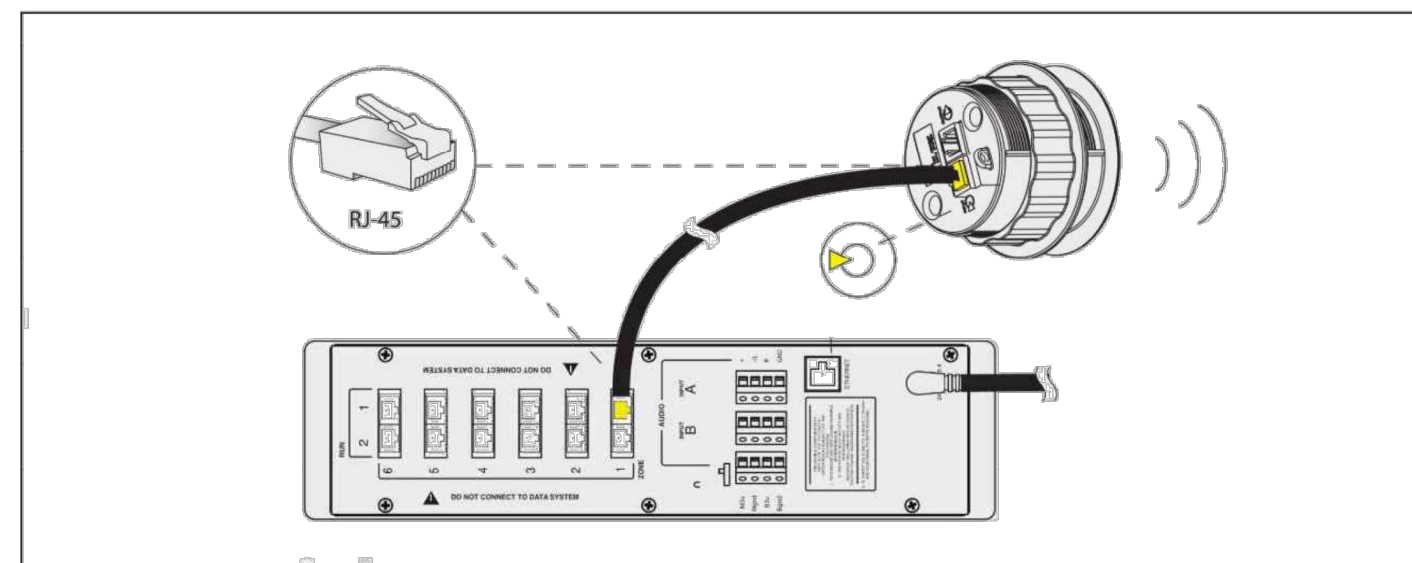
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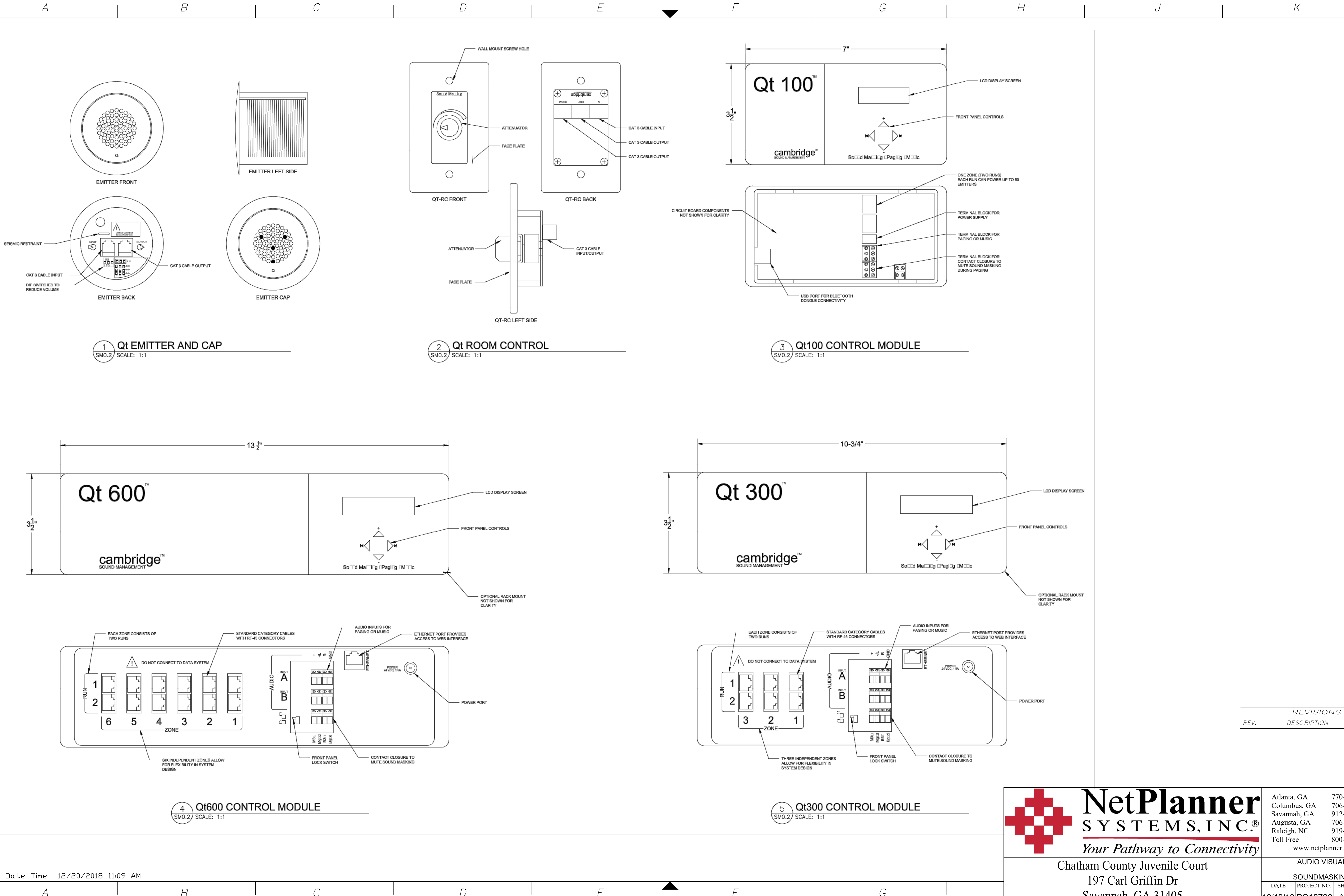


6  
SM0.1

HOMERUN WIRING

NOTE:





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