

CONTRACT DOCUMENTS

**LANCASTER COUNTY
NEBRASKA**

**Hall of Justice Courtroom Audio Replacement
Bid No. 17-130**

**Midwest Sound & Lighting
2322 O Street
Lincoln, NE 68510
(402) 474-4918**

**LANCASTER COUNTY, NEBRASKA
CONTRACT TERMS**

THIS CONTRACT, made and entered into by and between **Midwest Sound & Lighting, 2322 O Street, Lincoln, NE 68510**, hereinafter called the Contractor, and Lancaster County, Nebraska, a political subdivision of the State of Nebraska, hereinafter referred to as the County.

WHEREAS, the County has caused to be prepared, in accordance with law, Specifications, Plans, and other Contract Documents for the Work herein described, and has approved and adopted said documents and has caused to be published an advertisement for and in connection with said Work, to-wit:

Hall of Justice Courtroom Audio Replacement, Bid No. 17-130

and

WHEREAS, the Contractor, in response to such advertisement, has submitted to the County, in the manner and at the time specified, a sealed Proposal/Supplier Response in accordance with the terms of said advertisement; and

WHEREAS, the County, in the manner prescribed by law has publicly opened, read aloud, examined, and canvassed the Proposals/Supplier Responses submitted in response to such advertisement, and as a result of such canvass has determined and declared the Contractor to be the lowest responsible bidder for the said Work for the sum or sums named in the Contractor's Proposal/Supplier Response, a copy thereof being attached to and made a part of this Contract.

NOW, THEREFORE, in consideration of the sums to be paid to the Contractor and the mutual covenants herein contained, the Contractor and the County have agreed and hereby agree as follows:

1. The Contractor agrees to (a) furnish all tools, equipment, supplies, superintendence, transportation, and other construction accessories, services, and facilities; (b) furnish all materials, supplies, and equipment specified to be incorporated into and form a permanent part of the complete work; (c) provide and perform all necessary labor in a substantial and workmanlike manner and in accordance with the provisions of the Contract Documents; and (d) execute, construct, and compete all Work included in and covered by the County's award of this Contract to the Contractor, such award being based on the acceptance by the County of the Contractor's Proposal, or part thereof, as follows:

Agreement to full proposal

2. The County agrees to pay to the Contractor for the performance of the Work embraced in this Contract, the Contractor agrees to accept as full compensation therefor, the following sums and prices for all Work covered by and included in the Contract award and designated above, payment thereof to be made in the manner provided by the County:

The County will pay for products/services, according to the Line Item pricing as listed in Contractors Proposal/Supplier Response, a copy thereof being attached to and made a part of this Contract, for a total of \$189,382.00.

3. **EQUAL EMPLOYMENT OPPORTUNITY:** In connection with the carrying out of this project, the Contractor shall not discriminate against any employee, applicant for employment, or any other person because of race, color, religion, sex, national origin, ancestry, disability, age or marital status. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, sex, national origin, ancestry, disability, age or marital status. Such action shall include, but not be limited to, the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other compensation; and selection for training, including apprenticeship.

4. E-VERIFY: In accordance with Neb. Rev. Stat. 4-108 through 4-114, the contractor agrees to register with and use a federal immigration verification system, to determine the work eligibility status of new employees performing services within the state of Nebraska. A federal immigration verification system means the electronic verification of the work authorization program of the Illegal Immigration Reform and Immigrant Responsibility Act of 1996, 8 U.S.C. 1324 a, otherwise known as the E-Verify Program, or an equivalent federal program designated by the United States Department of Homeland Security or other federal agency authorized to verify the work eligibility status of a newly hired employee pursuant to the Immigration Reform and Control Act of 1986. The Contractor shall not discriminate against any employee or applicant for employment to be employed in the performance of this section pursuant to the requirements of state law and 8 U.S.C.A 1324b. The contractor shall require any subcontractor to comply with the provisions of this section.
5. GUARANTEE: A performance and payment bonds in the full amount of the contract shall be required for all construction contracts. These bonds shall remain in effect during the guarantee period as stated in the specifications. Once the project is completed, the contractor may submit a maintenance bond in place of the performance bond.
- 6a. TERMINATION FOR CAUSE
- a) The County may terminate the Contract if the Contractor:
1. Refuses or fails to supply enough properly skilled workers or proper materials;
 2. Fails to make payment to Subcontractors for materials or labor in accordance with the respective agreements between the Contractor and the Subcontractors;
 3. Disregards laws, ordinances, or rules, regulations or orders of a public authority having jurisdiction; or
 4. Otherwise commits a substantial breach of any provision of the Contract Documents.
- b) When any of the above reasons exist, the County without prejudice to any other rights or remedies of the County may (after giving the Contractor and the Contractor's surety, if any, seven days' written notice) terminate employment of the Contractor. In addition the County may (subject to any prior rights of the surety):
1. Take possession of the site and of all materials, equipment, tools, and construction equipment and machinery thereon owned by the Contractor;
 2. Accept assignment of subcontracts; and
 3. Finish the Work by whatever reasonable method the County may deem expedient.
- c) If the Contract is terminated by County as provided in this section, Contractor shall not be entitled to receive any further payment until the expiration of 35 days after Final Completion and acceptance of all Work by County.
- d) If the unpaid balance of the Contract Sum exceeds the cost of completing the Work, including all additional costs and expenses made necessary thereby, including costs for County staff time, plus all losses sustained, including any liquidated damages provided under the Contract Documents, such excess shall be paid to Contractor. If such costs, expenses, losses, and liquidated damages exceed the unpaid balance of the Contract Sum, Contractor shall pay such excess to County.
- e) If, after termination of the Contractor's right to proceed, it is determined that the Contractor was not in default, or that the delay was excusable, the rights and obligations of the parties will be the same as if the termination has been issued for the convenience of the County.
- f) No termination or action taken by County after termination shall prejudice any other rights or remedies of County provided by law or by the Contract Documents upon such termination; and County may proceed against Contractor to recover all losses suffered by County.

6b. TERMINATION BY THE COUNTY FOR CONVENIENCE

- a) The County may at its option, terminate this Contract in whole or in part at any time without cause by written notice thereof to the Contractor.
- b) Upon any such termination, the Contractor agrees to waive any claims for damages, including loss of anticipated profits, on account thereof, and as the sole right and remedy of the Contractor, the County shall pay Contractor in accordance with this Paragraph. The provisions of the Contract which by their nature survive final acceptance of the Work, shall remain in full force and effect after such termination to the extent provided in such provisions.
- c) Upon receipt of any such notice of termination, the Contractor shall, unless the Notice directs otherwise, immediately:
 1. Discontinue the Work to the extent specified by the County;
 2. Place no further orders or subcontracts for materials, equipment, services or facilities, except as may be necessary for completion of that portion of the Work, if any, the County has directed not to be discontinued;
 3. Promptly make every reasonable effort to procure cancellation upon satisfactory terms as determined by the County of all orders and subcontracts not related to that portion of the Work, if any, the County has directed not to be discontinued;
 4. Do only such other activity as may be necessary to preserve and protect work already in progress and to protect materials and plants and equipment on the Project Site or in transit thereto.
- d) Upon such termination, the obligations of the Contract shall continue as to portions of the Work already performed and as to bona fide obligations the Contractor assumed prior to the date of termination.
- e) Upon termination, the County shall pay the Contractor the full cost of all Work properly done by the Contractor to the date of termination not previously paid for by the County. If at the date of such termination the Contractor has properly prepared or fabricated off site any goods for subsequent incorporation in the Work, the County may direct the Contractor to deliver such goods to the Site or to such other place as the County may reasonably determine, whereupon the County shall pay to the Contractor the cost for such goods and materials.
- f) Upon such termination, County shall pay to Contractor the sum of the following:
 1. The amount of the Contract Sum allocable to the portion of the Work properly performed by Contractor as of the date of termination, less sums previously paid to Contractor.
 2. Previously unpaid costs of any items delivered to the Project site which were fabricated for subsequent incorporation in the Work.
 3. Any proven losses with respect to materials and equipment directly resulting from such termination.
 4. Reasonable demobilization costs.
- g) The above payment shall be the sole and exclusive remedy to which Contractor is entitled in the event of termination of the Contract by County pursuant to this provision; and Contractor will be entitled to no other compensation or damages and expressly waives same.

7. INDEPENDENT CONTRACTOR: It is the express intent of the parties that this contract shall not create an employer-employee relationship. Employees of the Contractor shall not be deemed to be employees of the County and employees of the County shall not be deemed to be employees of the Contractor. The Contractor and the County shall be responsible to their respective employees for all salary and benefits. Neither the Contractor's employees nor the County's employees shall be entitled to any salary, wages, or benefits from the other party, including but not limited to overtime, vacation, retirement benefits, workers' compensation, sick leave or injury leave. Contractor shall also be responsible for maintaining workers' compensation insurance, unemployment insurance for its employees, and for payment of all federal, state, local and any other payroll taxes with respect to its employees' compensation.

8. PERIOD OF PERFORMANCE: The work included in this Contract shall begin as soon as possible from date of executed contract. The completion date for Phase 1 shall be July 30, 2017 or sooner. The completion of Phase 2 shall be December 1, 2017 or sooner.
9. ASSIGNMENT: Contractor shall not assign its duties and responsibilities under this Contract without the express written permission of the County.
10. The Contract Documents comprise the Contract, and consist of the following:
 1. Contract Terms
 2. Accepted Proposal
 3. Specifications
 4. Drawings
 5. Addendums No. 1 and 2
 6. Instructions to Bidders
 7. Insurance Requirements
 8. Employee Classification Act Requirements
 9. Employee Classification Act Affidavit
 10. Sales Tax Exemption Forms 13 & 17
Insurance Certificate and Endorsements
 11. Notice to Bidders

The herein above mentioned Contract Documents form this Contract and are a part of the Contract as if hereto attached. Said documents which are not attached to this document may be viewed at: lincoln.ne.gov - Keyword: Bid - Awarded or Closed bids.

This Contract contains the complete and entire Contract between the parties and may not be altered or amended except in writing executed, making specific references to this Contract, by a duly authorized officer of the Contractor and by a duly authorized official of the County.

The Contractor and the County hereby agree that all the terms and conditions of this Contract shall be binding upon themselves, and their heirs, administrators, executors, legal and personal representatives, successors, and assigns.

IN WITNESS WHEREOF, the Contractor and the County do hereby execute this contract upon completion of signature on:

Vendor Signature Page
Lancaster County Signature Page


Vendor Signature Page


CONTRACT
Hall of Justice Courtroom Audio Replacement
Bid No. 17-130
Lancaster County
Midwest Sound & Lighting

EXECUTION BY CONTRACTOR

IF A CORPORATION:

Attest:

 Seal
Secretary

Midwest Sound & Lighting, Inc.
Name of Corporation
2322 O' Street, Lincoln, NE 68510
Address
By: 
Duly Authorized Official
Secretary/Treas.
Legal Title of Official

IF OTHER TYPE OF ORGANIZATION:

Name of Organization

Type of Organization

Address
By: _____
Member
By: _____
Member

IF AN INDIVIDUAL:

Name

Address

Signature

Lancaster County Signature Page

**CONTRACT
Hall of Justice Courtroom Audio Replacement
Bid No. 17-130
Lancaster County
Midwest Sound & Lighting**

EXECUTION BY LANCASTER COUNTY, NEBRASKA

Contract Approved as to Form:

The Board of County Commissioners of
Lancaster, Nebraska

Deputy Lancaster County Attorney

dated _____

COMMENTARY TO ACCOMPANY CONSTRUCTION BONDS

A. GENERAL INFORMATION

There are two types of construction bonds that are required by statutes for public work in many jurisdictions and are widely used for other projects as well.

Construction Performance Bond
Construction Payment Bond

The Construction Performance Bond is an instrument that is used to assure the availability of funds to complete the construction.

The Construction Payment Bond is an instrument that is used to assure the availability of sufficient funds to pay for labor, materials and equipment used in the construction. For public work the Construction Payment Bond provides rights of recovery for workers and suppliers similar to their rights under the mechanics lien laws applying to private work.

The objective underlying the re-writing of construction bond forms was to make them more understandable to provide guidance to users. The intention was to define the rights and responsibilities of the parties, without changing the traditional rights and responsibilities that have been decided by the courts. The new bond forms provide helpful guidance regarding time periods for various notices and actions and clarify the extent of available remedies.

The concept of pre-default meeting has been incorporated into the Construction Performance Bond. All of the participants favored early and informal resolution of the problems that may precipitate a default, but some Surety companies were reluctant to participate in pre-default settings absent specific authorization in the bond form.

The responsibilities of the Owner and the options available to the Surety when a default occurs are set forth in the Construction Performance Bond. Procedures for making a claim under the Construction Payment Bond are set forth in the form.

EJCDC recommends the use of two separate bonds rather than a combined form. Normally the amount of each bond is 100 percent of the contract amount. The bonds have different purposes and are separate and distinct obligations of the Surety. The Surety Association reports that the usual practice is to charge a single premium for both bonds and there is no reduction in premium for using a combined form or for issuing one bond without the other.

B. COMPLETING THE FORMS

Bonds have important legal consequences; consultation with an attorney and a bond specialist is encouraged with respect to federal, state and local laws applicable to bonds and with respect to completing or modifying the bond forms.

Both bond forms have a similar format and the information to be filled in is ordinarily the same on both bonds. If modification is necessary, the modifications may be different.

The bond forms are prepared for execution by the Contractor and the Surety. Evidence of authority to bind the Surety is usually provided in the form of a power of attorney designating the agent who is authorized to sign on behalf of the Surety. The power of attorney should be filed with the signed bonds.

Each bond must be executed separately since they cover separate and distinct obligations.

Preferably the bond date should be the same date as the contract, but in no case should the bond date precede the date of the contract.

To accompany the Construction Performance Bond (EJCDC No.1910-28A) and the Construction Payment Bond (EJCDC No. 1910-28B)
Prepared by the Engineers' Joint Contract Documents Committee

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

CONTRACTOR (Name and Address):

Midwest Sound & Lighting
2322 O Street
Lincoln, NE 68510

SURETY (Name and Principal
Place of Business):

AMCO Insurance Company
1100 Locust Street, Dept 2006
Des Moines, IA 50391-2006

Owner (Name and Address):

Lancaster County
555 South 10th St.
Lincoln, NE 68508

CONSTRUCTION CONTRACT

Date:

Amount: \$189,382.00

Description (Name and Location):

For all labor, material and equipment necessary for Hall of Justice Courtroom Audio Replacement,
Bid No. 17-130

BOND

Date: May 22, 2017

Amount: \$189,382.00

Modifications to this Bond Form: None

CONTRACTOR AS PRINCIPAL

Company:

(Corp. Seal)

Midwest Sound & Lighting
2322 O Street
Lincoln, NE 68510

SURETY

Company:

(Corp. Seal)

AMCO Insurance Company
1100 Locust Street, Dept 2006
Des Moines, IA 50391-2006

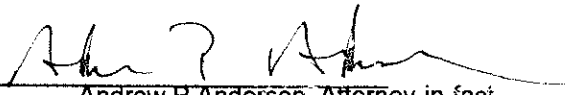
Signature:

Name and Title:



Signature:

Name and Title:



Andrew P Andersen, Attorney-in-fact

EJCDC NO. 1910-28a (1984 Edition)

Prepared through the joint efforts of The Surety Assoc. of America, Engineers' Joint Contract Documents Committee, The Associated General Contractors of America, and the American Institute of Architects.

1. The Contractor and the Surety, jointly and severally, bind themselves their heirs, executors, administrators, successors and assigns to the Owner for the performance of the Construction Contract, which is incorporated herein by reference.
2. If the Contractor performs the Construction Contract, the Surety and the Contractor shall have no obligation under this Bond, except to participate in conferences as provided in Subparagraph 3.1.
3. If there is no Owner Default, the Surety's obligation under this Bond shall arise after:
 - 3.1 The Owner has notified the Contractor and the Surety at its address described in Paragraph 10 below, that the Owner is considering declaring a Contractor Default and has requested and attempted to arrange a conference with the Contractor and the Surety to be held not later than fifteen days after receipt of such notice to discuss methods of performing the Construction Contract. If the Owner, the Contractor and the Surety agree, the Contractor shall be allowed a reasonable time to perform the Construction Contract, but such an agreement shall not waive the Owner's right, if any, subsequently to declare a Contractor Default and
 - 3.2 The Owner has declared a Contractor Default and formally terminated the Contractor's right to complete the contract. Such Contractor Default shall not be declared earlier than twenty days after the Contractor and the Surety have received notice as provided in Sub-paragraph 3.1; and
 - 3.3 The Owner has agreed to pay the Balance of the Contract Price to the Surety in accordance with the terms of the Construction Contract or to a contractor selected to perform the Construction Contract in accordance with the terms of the contract with the Owner.
4. When the Owner has satisfied the conditions of Paragraph 3, the Surety shall promptly and at the Surety's expense take one of the following actions:
 - 4.1 Arrange for the Contractor, with consent of the Owner, to perform and complete the Construction Contract, or
 - 4.2 Undertake to perform and complete the Construction Contract itself, through its agents or through independent contractors: or
 - 4.3 Obtain bids or negotiated proposals from qualified contractors acceptable to the Owner for a contract for performance and completion of the Construction Contract, arrange for a contract to be prepared for execution by the Owner and the contractor selected with the Owner's concurrence, to be secured with performance and payment bonds executed by a qualified surety equivalent to the bonds issued on the Construction Contract, and pay to the Owner the amount of damages as described in Paragraph 6 in excess of the Balance of the Contract Price incurred by the Owner resulting from the Contractor's default, or
 - 4.4 Waive its right to perform and complete, arrange for completion, or obtain a new contractor and with reasonable promptness under the circumstances:
 1. After investigation, determine the amount for which it may be liable to the Owner and as soon as practicable after the amount is determined tender payment therefor to the Owner; or
 2. Deny liability in whole or in part and notify the Owner citing reasons therefor.
5. If the Surety does not proceed as provided in Paragraph 4 with reasonable promptness, the Surety shall be deemed to be in default on this Bond fifteen days after receipt of an additional written notice from the Owner to the Surety demanding that the Surety perform its obligations under this Bond, and the Owner shall be entitled to enforce any remedy available to the Owner. If the Surety proceeds as provided in Subparagraph 4.4 and the Owner refuses payment tendered or the Surety has denied liability, in whole or in part, without further notice the Owner shall be entitled to enforce any remedy available to the Owner.
6. After the Owner has terminated the Contractor's right to complete the Construction Contract, and if the Surety elects to act under Subparagraph 4.1, 4.2, or 4.3 above, then the responsibilities of the Surety to the Owner shall not be greater than those of the Contractor under the Construction Contract, and the responsibilities of the Owner to the Surety shall not be greater than those of the Owner under the Construction Contract. To the limit of the amount of this Bond, but subject to commitment by the Owner of the Balance of the Contract Price to mitigation of costs and damages on the Construction Contract, the Surety is obligated without duplication for:
 - 6.1 The responsibilities of the Contractor for correction of defective work and completion of the Construction Contract;
 - 6.2 Additional legal, design professional and delay costs resulting from the Contractor's Default, and resulting from the actions or failure to act of the Surety under Paragraph 4; and
 - 6.3 Liquidated damages, or if no liquidated damages are specified in the Construction Contract, actual damages caused by delayed performance or non-performance of the Contractor.
7. The Surety shall not be liable to the Owner or others for obligations of the Contractor that are unrelated to the Construction Contract, and the Balance of the Contract Price shall not be reduced or set off on account of any such unrelated obligations. No right of action shall accrue on this Bond to any person or entity other than the Owner or its heirs, executors, administrators, or successors.
8. The Surety hereby waives notice of any change, including changes of time, to the Construction Contract or to related sub-contracts, purchase orders and other obligations.
9. Any proceeding, legal or equitable, under this Bond may be instituted in any court of competent jurisdiction in the location in which the work or part of the work is located and shall be instituted within two years after Contractor Default or within two years after the Contractor ceased working or within two years after the Surety refuses or fails to perform its obligations under this Bond, whichever occurs first. If the provisions of this Paragraph are void or prohibited by law, the minimum period of limitation available to sureties as a defense in the jurisdiction of the suit shall be applicable.
10. Notice to the Surety, the Owner or the Contractor shall be mailed or delivered to the address shown on the signature page.
11. When this Bond has been furnished to comply with a statutory or other legal requirement in the location where the construction was to be performed, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. The intent is that this Bond shall be construed as a statutory bond and not as a common law bond.
12. Definitions.
 - 12.1 Balance of the Contract Price: The total amount payable by the Owner to the Contractor under the Construction Contract after all proper adjustments have been made, including allowance to the Contractor of any amounts received or to be received by the Owner in settlement of insurance or other claims for damages to which the Contractor is entitled, reduced by all valid and proper payments made to or on behalf of the Contractor under the Construction Contract.
 - 12.2 Construction Contract: The agreement between the Owner and the Contractor identified on the signature page, including all Contract Documents and changes thereto.
 - 12.3 Contractor Default: Failure of the Contractor, which has neither been remedied nor waived, to perform or otherwise to comply with the terms of the Construction Contract.
 - 12.4 Owner Default: Failure of the Owner, which has neither been remedied nor waived, to pay the Contractor as required by the Construction Contract or to perform and complete or comply with the other terms thereof.

CONSTRUCTION PAYMENT BOND

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

CONTRACTOR (Name and Address):

Midwest Sound & Lighting
2322 O Street
Lincoln, NE 68510

Owner (Name and Address):

Lancaster County
555 South 10th St.
Lincoln, NE 68508

SURETY (Name and Principal Place
Of Business):

AMCO Insurance Company
1100 Locust Street, Dept 2006
Des Moines, IA 50391-2006

CONSTRUCTION CONTRACT

Date:

Amount: \$189,382.00

Description (Name and Location):

For all labor, material and equipment necessary for Hall of Justice Courtroom Audio Replacement,
Bid No. 17-130

BOND

Date: May 22, 2017

Amount: \$189,382.00

Modifications to this Bond Form: None

CONTRACTOR AS PRINCIPAL

Company: (Corp. Seal)

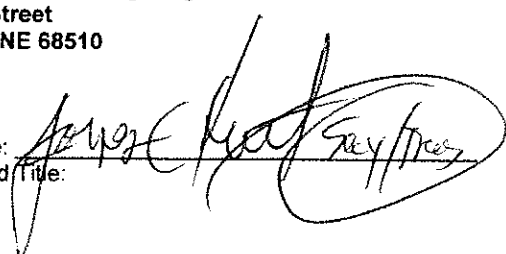
Midwest Sound & Lighting
2322 O Street
Lincoln, NE 68510

SURETY

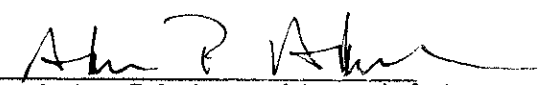
Company: (Corp. Seal)

AMCO Insurance Company
1100 Locust Street, Dept 2006
Des Moines, IA 50391-2006

Signature:
Name and Title:



Signature:
Name and Title: Andrew P Andersen, Attorney-in-fact



1. The Contractor and the Surety, jointly and severally, bind themselves their heirs, executors, administrators, successors and assigns to the Owner to pay for labor, materials and equipment furnished for use in the performance of the Construction Contract, which is incorporated herein by reference.
 2. With respect to the Owner, this obligation shall be null and void if the Contractor:
 - 2.1 Promptly makes payment, directly or indirectly, for all sums due Claimants, and
 - 2.2 Defends, indemnifies and holds harmless the Owner from all claims, demands, liens or suits by any person or entity who furnished labor, materials or equipment for use in the performance of the Construction Contract, provided the Owner has promptly notified the Contractor and the Surety (at the address described in Paragraph 12) of any claims, demands, liens or suits and tendered defense of such claims, demands, liens or suits to the Contractor and the Surety, and provided there is no Owner Default.
 3. With respect to Claimants, this obligation shall be null and void if the Contractor promptly makes payment, directly or indirectly, for all sums due.
 4. The Surety shall have no obligation to Claimants under this Bond until:
 - 4.1 Claimants who do not have a direct contract with the Contractor have given notice to the Surety (at the address described in Paragraph 12) and sent a copy, or notice thereof to the Owner, stating that a claim is being made under this Bond and with substantial accuracy the amount of the claim.
 - 4.2 Claimants who do not have a direct contract with the Contractor:
 1. Have furnished written notice to the Contractor and sent a copy, or notice thereof, to the Owner, within 90 days after having last performed labor or last furnished materials or equipment included in the claim stating, with substantial accuracy, the amount of the claim and the name of the party to whom the materials were furnished or supplied or for whom the labor was done or performed, and
 2. Have either received a rejection in whole or in part from the Contractor, or not received within 30 days of furnishing the above notice any communication from the Contractor by which the Contractor has indicated the claim will be paid directly or indirectly; and
 3. Not having been paid within the above 30 days, have sent a written notice to the Surety (at the address described in Paragraph 12) and sent a copy, or notice thereof, to the Owner, stating that a claim is being made under this Bond and enclosing a copy of the previous written notice furnished to the Contractor.
 5. If a notice required by Paragraph 4 is given by the Owner to the Contractor or to the Surety, that is sufficient compliance.
 6. When the Claimant has satisfied the conditions of Paragraph 4, the Surety shall promptly and at the Surety's expense take the following actions:
 - 6.1 Send an answer to the Claimant, with a copy to the Owner, within 45 days after receipt of the claim, stating the amounts that are undisputed and the basis for challenging any amounts that are disputed.
 - 6.2 Pay or arrange for payment of any undisputed amounts.
 7. The Surety's total obligation shall not exceed the amount of this Bond, and the amount of this Bond shall be credited for any payments made in good faith by the Surety.
 8. Amounts owed by the Owner to the Contractor under the Construction Contract shall be used for the performance of the Construction Contract and to satisfy claims, if any, under any Construction Performance Bond.
- By the Contractor furnishing and the Owner accepting this Bond, they agree that all funds earned by the Contractor in the performance of the Construction Contract are dedicated to satisfy obligations of the Contractor and the Surety under this Bond, subject to the Owner's priority to the funds for the completion of the work.
9. The Surety shall not be liable to the Owner, Claimants or others for obligations of the Contractor that are unrelated to the Construction Contract. The Owner shall not be liable for payment of any costs or expenses of any Claimant under this Bond, and shall have under this Bond no obligations to make payments to, give notices on behalf of, or otherwise have obligations to Claimants under this Bond.
 10. The Surety hereby waives notice of any change, including changes of time, to the Construction Contract or to related subcontracts, purchase orders and other obligations.
 11. No suite or action shall be commenced by a Claimant under this Bond other than in a court of competent jurisdiction in the location in which the work or part of the work is located or after the expiration of one year from the date (1) on which the Claimant gave the notice required by Subparagraph 4.1 or Clause 4.1 (iii), or (2) on which the last labor or service was performed by anyone or the last materials or equipment were furnished by anyone under the Construction Contract, whichever of (1) or (2) first occurs. If the provisions of this Paragraph are void or prohibited by law, the minimum period of limitation available to sureties as a defense in the jurisdiction of the suit shall be applicable.
 12. Notice to the Surety, the Owner or the Contractor shall be mailed or delivered to the address shown on the signature page. Actual receipt of notice by Surety, the Owner or the Contractor, however accomplished, shall be sufficient compliance as of the date received at the address shown on the signature page.
 13. When this Bond has been furnished to comply with a statutory or other legal requirement in the location where the construction was to be performed, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted here from and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. The intent is, that this Bond shall be construed as a statutory bond and not as a common law bond.
 14. Upon request by any person or entity appearing to be a potential beneficiary of this Bond, the Contractor shall promptly furnish a copy of this Bond or shall permit a copy to be made.
 15. DEFINITIONS
 - 15.1 Claimant: An individual or entity having a direct contract with the Contractor or with a subcontractor of the Contractor to furnish labor, materials or equipment for use in the performance of the Contract. The intent of this Bond shall be to include without limitation in the terms "labor, materials, or equipment" that part of water, gas, power, light, heat, oil, gasoline, telephone service or rental equipment used in the Construction Contract, architectural and engineering services required for performance of the work of the Contractor and the Contractor's subcontractors, and all other items for which a mechanic's lien may be asserted in the jurisdiction where the labor, materials or equipment were furnished.
 - 15.2 Construction Contract: The agreement between the Owner and the Contractor identified on the signature page, including all Contract Documents and changes thereto.
 - 15.3 Owner Default: Failure of the Owner, which has neither been remedied nor waived, to pay the Contractor as required by the Construction Contract or to perform and complete or comply with the other terms thereof.

(FOR INFORMATION ONLY - NAME, ADDRESS AND TELEPHONE)
 AGENT OR BROKER: OWNER'S REPRESENTATIVE (ARCHITECT, ENGINEER OR OTHER PARTY)

Power of Attorney

KNOW ALL MEN BY THESE PRESENTS THAT:

Nationwide Mutual Insurance Company, an Ohio corporation
Farmland Mutual Insurance Company, an Iowa corporation
Nationwide Agribusiness Insurance Company, an Iowa corporation

AMCO Insurance Company, an Iowa corporation
Allied Property and Casualty Insurance Company, an Iowa corporation
Depositors Insurance Company, an Iowa corporation

hereinafter referred to severally as the "Company" and collectively as the "Companies," each does hereby make, constitute and appoint:

JEFFREY CRAIG GREENWALD
KATE R. GREENWALD

ROHN PAUL LOYD

ANDREW P. ANDERSEN

LINCOLN NE

each in their individual capacity, its true and lawful attorney-in-fact, with full power and authority to sign, seal, and execute on its behalf any and all bonds and undertakings, and other obligatory instruments of similar nature, in penalties not exceeding the sum of

ONE MILLION FIVE HUNDRED THOUSAND AND NO/100 DOLLARS

\$ 1,500,000.00

and to bind the Company thereby, as fully and to the same extent as if such instruments were signed by the duly authorized officers of the Company; and all acts of said Attorney pursuant to the authority given are hereby ratified and confirmed.

This power of attorney is made and executed pursuant to and by authority of the following resolution duly adopted by the board of directors of the Company:

"RESOLVED, that the president, or any vice president be, and each hereby is, authorized and empowered to appoint attorneys-in-fact of the Company, and to authorize them to execute and deliver on behalf of the Company any and all bonds, forms, applications, memorandums, undertakings, recognizances, transfers, contracts of indemnity, policies, contracts guaranteeing the fidelity of persons holding positions of public or private trust, and other writings obligatory in nature that the business of the Company may require; and to modify or revoke, with or without cause, any such appointment or authority; provided, however, that the authority granted hereby shall in no way limit the authority of other duly authorized agents to sign and countersign any of said documents on behalf of the Company."

"RESOLVED FURTHER, that such attorneys-in-fact shall have full power and authority to execute and deliver any and all such documents and to bind the Company subject to the terms and limitations of the power of attorney issued to them, and to affix the seal of the Company thereto; provided, however, that said seal shall not be necessary for the validity of any such documents."

This power of attorney is signed and sealed under and by the following bylaws duly adopted by the board of directors of the Company.

Execution of Instruments. Any vice president, any assistant secretary or any assistant treasurer shall have the power and authority to sign or attest all approved documents, instruments, contracts, or other papers in connection with the operation of the business of the company in addition to the chairman of the board, the chief executive officer, president, treasurer or secretary; provided, however, the signature of any of them may be printed, engraved, or stamped on any approved document, contract, instrument, or other papers of the Company.

IN WITNESS WHEREOF, the Company has caused this instrument to be sealed and duly attested by the signature of its officer the 13th day of February, 2014.



Terrance Williams, President and Chief Operating Officer of Nationwide Agribusiness Insurance Company and Farmland Mutual Insurance Company; and **Vice President** of Nationwide Mutual Insurance Company, AMCO Insurance Company, Allied Property and Casualty Insurance Company, and Depositors Insurance Company

ACKNOWLEDGMENT

STATE OF IOWA, COUNTY OF POLK: ss

On this 13th day of February, 2014, before me came the above-named officer for the Companies aforesaid, to me personally known to be the officer described in and who executed the preceding instrument, and he acknowledged the execution of the same, and being by me duly sworn, deposes and says, that he is the officer of the Companies aforesaid, that the seals affixed hereto are the corporate seals of said Companies, and the said corporate seals and his signature were duly affixed and subscribed to said instrument by the authority and direction of said Companies.

Sandy Alitz
Notarial Seal - Iowa
Commission Number 152785
My Commission Expires March, 24, 2017

Notary Public
My Commission Expires
March 24, 2017

CERTIFICATE

I, Robert W Horner III, Secretary of the Companies, do hereby certify that the foregoing is a full, true and correct copy of the original power of attorney issued by the Company; that the resolution included therein is a true and correct transcript from the minutes of the meetings of the boards of directors and the same has not been revoked or amended in any manner; that said Terrance Williams was on the date of the execution of the foregoing power of attorney the duly elected officer of the Companies, and the corporate seals and his signature as officer were duly affixed and subscribed to the said instrument by the authority of said board of directors; and the foregoing power of attorney is still in full force and effect.

IN WITNESS WHEREOF, I have hereunto subscribed my name as Secretary, and affixed the corporate seals of said Companies this 22nd day of May, 2017.

Secretary

This Power of Attorney Expires 12/29/19

BDJ 1(03-14) 00

Certified Statement Pursuant to Neb. Rev. Stat. § 77-1323

§ 77-1323 Every person, partnership, limited liability company, association, or corporation furnishing labor or material in the repair, alteration, improvement, erection, or construction of any public improvement shall furnish a certified statement to be attached to the contract that all equipment to be used on the project, except that acquired since the assessment date, has been assessed for taxation for the current year, giving the county where assessed.

Pursuant to Neb. Rev. Stat. § 77-1323, I, James C Knuth, do hereby certify that all equipment to be used on Bid No. 17-130, except that equipment acquired since the assessment date, has been assessed for taxation for the current year, in Lancaster County, Nebraska.

DATED this 23rd day of May, 2017.

By: James C Knuth
Title: Secy/Treas.

STATE OF NEBRASKA)
COUNTY OF Lancaster)ss.
)

On May 3, 2017, before me, the undersigned Notary Public duly commissioned for and qualified in said County, personally came James C Knuth, to me known to be the identical person, whose name is affixed to the foregoing instrument and acknowledged the execution thereof to be his voluntary act and deed.

Witness my hand and notarial seal the day and year last above written.



(SEAL)

Dutch Bell
Notary Public

EMPLOYEE CLASSIFICATION ACT AFFIDAVIT

For the purposes of complying with THE NEBRASKA EMPLOYEE CLASSIFICATION ACT, Nebraska Revised Statutes 48-2901 to 48-2912,

I, James C. Knuth, herein below known as the Contractor, state under oath and swear as follows:

- 1. Each individual performing services for the Contractor is properly classified under the Employee Classification Act.
2. The Contractor has completed a federal I-9 immigration form and has such form on file for each employee performing services.
3. The Contractor has complied with Neb. Rev. Stat. 4-114.
4. The Contractor has no reasonable basis to believe that any individual performing services for the Contractor is an undocumented worker.
5. The Contractor is not barred from contracting with the state or any political subdivision pursuant to Neb. Rev. Stat. 48-2912 of this Act.
6. As the Contractor, I understand that pursuant to the Employee Classification Act a violation of the Act by a contractor is grounds for rescission of the contract by Lancaster County. I understand that pursuant to the Act any contractor who knowingly provides a false affidavit may be subject to criminal penalties and upon a second or subsequent violation shall be barred from contracting with Lancaster County for a period of three years after the date of discovery of the falsehood.

I hereby affirm and swear that the statements and information provided on this affidavit are true, complete and accurate. The undersigned person does hereby agree and represent that he or she is legally capable to sign this affidavit and to lawfully bind the Contractor to this affidavit.

PRINT NAME: James C. Knuth (First, Middle, Last)

SIGNATURE: James C. Knuth

TITLE: Secy / Tras.

State of Nebraska)
County of Lancaster) ss.

This affidavit was signed and sworn to before me, the undersigned Notary Public, on this 23 day of May, 2017.

Dutch Bell
Notary Public



City of Lincoln/Lancaster County (Lincoln Purchasing) Supplier Response

Bid Information		Contact Information		Ship to Information
Bid Creator	Robert Walla Purchasing Agent	Address	Purchasing 440 S. 8th St. Lincoln, NE 68508	Address
Email	rwalla@lincoln.ne.gov	Contact	Robert Walla Purchasing Agent	Contact
Phone	1 (402) 441-8309			
Fax	1 (402) 441-6513			
Bid Number	17-130 Addendum 2	Department		Department
Title	Hall of Justice Courtroom Audio Replacement (REBID)	Building	Suite 200	Building
Bid Type	Bid	Floor/Room		Floor/Room
Issue Date	4/19/2017 07:00 AM (CT)	Telephone	1 (402) 441-8309	Telephone
Close Date	5/3/2017 12:00:00 PM (CT)	Fax	1 (402) 441-6513	Fax
		Email	rwalla@lincoln.ne.gov	Email

Supplier Information

Company	Midwest Sound & Lighting
Address	2322 O Street Lincoln, NE 68510
Contact	Bill Lohrberg
Department	
Building	
Floor/Room	
Telephone	(402) 474-4918
Fax	(402) 474-5874
Email	bill@mwsound.com
Submitted	5/3/2017 09:33:48 AM (CT)
Total	\$189,382.00

By submitting your response, you certify that you are authorized to represent and bind your company.

Signature Matthew Davis

Email mattd@mwsound.com

Supplier Notes

Each courtroom system contains identical infrastructure components. 7" touchscreens are provided for each Judge and Clerk in each courtroom. Touchscreens can be independently programmed for each room and can be modified easily.

Bid Notes

IF YOU HAVE QUESTIONS REGARDING THIS BID, PLEASE CALL 402-441-8103.

Bid Activities

Date	Name	Description
4/25/2017 12:00:00 PM (CT)	Pre-Bid Meeting - April 25, 2017 @ 12:00pm - 575 So. 10th Street, 4th Floor - Juvenile Court Lobby	Vendors are strongly encouraged to attend the Pre-Bid Meeting on April 25, 2017 @ 12:00pm - 575 So. 10th Street, 4th Floor - Juvenile Court Lobby. No other date of time will be available to see the courtrooms.

Bid Messages

Bid Attributes

Please review the following and respond where necessary

#	Name	Note	Response
1	Agreement to Addendum No. 2	Respondent hereby certifies that the change set forth in this addendum has been incorporated in their proposal and is part of their bid. Reason: NOTE: THE LAPEL MIC MENTIONED AS AN ADDITION TO THE BID IN ADDENDUM 1 SHALL BE INCLUDED WITH THE EQUIPMENT FOR COURTROOM 21. No other changes or documents are associated with this addendum.	Yes
2	Bid Documents	I acknowledge and accept that it is my responsibility as a Bidder to promptly notify the Purchasing Department Staff prior to the close of the bid of any ambiguity, inconsistency or error which I may discover upon examination of the bid documents including, but not limited to the Specifications.	Yes
3	Equipment Information	I have included the equipment list with the Brand and Model of all equipment to be placed in each courtroom on a company quote sheet or company letterhead and attached it to the Response Attachment section of my Ebid response. NOTE: A separate sheet must be submitted for each courtroom.	Equipment list is provided for each Phase and includes breakouts per courtroom.
4	Project Completion	I acknowledge and accept that my bid is applicable to a completion date for Phase 1 of July 30,2017 or sooner, and Phase 2 of December 1, 2017 or sooner: YES or NO If NO, Provide the date when work will be completed for each Phase.	Yes, depending on room availability. Will coordinate schedule with owner.
5	Instructions to Bidders	I acknowledge reading and understanding the Instructions to Bidders.	Yes
6	Insurance Requirements and Endorsements	Vendor agrees to the applicable terms listed in the Insurance Clause document including the submission of the Certificate of ACORD and the following endorsements: 1. Additional Insured - Lancaster County 2. Workers Compensation - Waiver of Subrogation. Insurance Certificate and required Endorsements are required at time of contract execution by the vendor. Vendors are strongly encouraged to send the insurance requirements and endorsement information to their insurance agent prior to bid close in order to expedite the contract execution process.	Yes
7	Specifications	I acknowledge reading and understanding the specifications.	Yes
8	Purchase Order, Contract and Delivery Contact	The City/County Purchasing Department issues Purchase Orders and Contracts via email to a designated contact person of the awarded Vendor. This designee will be the primary contact with the department through the delivery of the product/services. Please list the name, email address and phone number of the person who will be the contact person for the contract	Matt Davis, mattd@mwsound.com, 402-474-4918

to be awarded.

9	Sample Contract	I acknowledge reading and understanding the sample contract.	Yes
10	Contact	Name of person submitting this bid:	Matt Davis
11	Electronic Signature	Please check here for your electronic signature.	Yes
12	Performance/Payment Bonds	I acknowledge that a Performance Bond and a Payment Bond each in the amount of 100% of the Contract amount will be required with the signed contract upon award of this job.	Yes
13	Bid Bond Submission - County	I acknowledge and understand that my bid will not be considered unless a bid bond or certified check in the sum of five percent (5%) of the total amount of the bid is made payable to the order of the Lancaster County Treasurer as a guarantee of good faith prior to the bid opening. The bid security may be scanned and attached to the 'Response Attachments' section of your response or faxed to the Purchasing Office (402)441-6513. The original bond/check must then be received in the Purchasing Office, 440 S. 8th Street, Ste. 200, Lincoln, NE 68508 within three (3) days of bid closing. YOU MUST INDICATE YOUR METHOD OF BID BOND SUBMISSION IN BOX TO RIGHT!	I have scanned and attached my bid bond.
14	References	I have attached my References on Company letterhead to the Response Attachment section of this bid.	Yes
15	Employee Class Act Affidavit	I acknowledge if awarded the contract I will abide by the law, notarize and attach the Employee Classification Act Affidavit to my contract.	Yes
16	Tax Exempt Certification Forms	Materials being purchased in this bid are tax exempt and unit prices are reflected as such. A Purchasing Agent Appointment form and a Exempt Sales Certificate form shall be issued with contract documents. (Note: State Tax Law does not provide for sales tax exemption for proprietary functions for government, thereby excluding the purchases of pipes to be installed in water lines and purchase of water meters.)	Yes
17	Bid Award	a) I acknowledge and understand that the City, County and/or Public Building Commission reserves the right to award bids item-by-item, with or without alternates/options, by groups, or "lump sum" such as shall best serve the requirements and interests of the City, County and/or Public Building Commission. Do you agree and understand? Yes/No_____	a)Yes b)No, each courtroom could be accepted individually.
		b) Is your pricing based on all-or-nothing basis, please indicate is so. Yes/No_____	

18 U.S. Citizenship Attestation

Is your company legally considered an Individual or Sole Proprietor: YES or NO NO

As a Vendor who is legally considered an Individual or a Sole Proprietor I hereby understand and agree to comply with the requirements of the United States Citizenship Attestation Form, available at:
<http://www.sos.ne.gov/business/notary/citizenforminfo.html>

All awarded Vendors who are legally considered an Individual or a Sole Proprietor must complete the form and submit it with contract documents at time of execution.

If a Vendor indicates on such attestation form that he or she is a qualified alien, the Vendor agrees to provide the US Citizenship and Immigration Services documentation required to verify the Vendor's lawful presence in the United States using the Systematic Alien Verification for Entitlements (SAVE) Program.

Vendor further understands and agrees that lawful presence in the United States is required and the Vendor may be disqualified or the Contract terminated if such lawful presence cannot be verified as required by Neb. Rev. Stat. 4-108.

19 Agreement to Addendum No. 1

Respondent hereby certifies that the change set forth in this addendum has been incorporated in their proposal and is part of their bid. Reason: See Bid Attachments section for Addendum information. Yes

Line Items

#	Qty	UOM	Description	Response
1	1	PKG	Courtroom Audio Replacement - PHASE 1	\$91,226.00

Item Notes: Vendor shall provide a list of equipment with Brand and Model for each courtroom and attach in the Response Attachment section of the Ebid response.

Supplier Notes:

Package Line Items:

#	Qty	UOM	Description	Response
1.1	1	Lump Sum	4th Floor - Juvenile Court - Courtroom 41	9,605.00

Item Notes: Vendor shall provide a list of equipment with Brand and Model for this courtroom in the Response Attachment section of the ebid response.

Supplier Notes:

1.2	1	Lump Sum	4th Floor - Juvenile Court - Courtroom 43	9,605.00
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Item Notes: Vendor shall provide a list of equipment with Brand and Model for this courtroom in the Response Attachment section of the ebid response.

Supplier Notes:

1.3	1	Lump Sum	3rd Floor - District Court - Courtroom 31	9,679.00
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Item Notes: Vendor shall provide a list of equipment with Brand and Model for this courtroom in the Response Attachment section of the ebid response.

Supplier Notes:

1.4	1	Lump Sum	3rd Floor - District Court - Courtroom 32	9,679.00
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Item Notes: Vendor shall provide a list of equipment with Brand and Model for this courtroom in the Response Attachment section of the ebid response.

Supplier Notes:

1.5	1	Lump Sum	3rd Floor - District Court - Courtroom 33	9,679.00
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Item Notes: Vendor shall provide a list of equipment with Brand and Model for this courtroom in the Response Attachment section of the ebid response.

Supplier Notes:

1.6	1	Lump Sum	3rd Floor - District Court - Courtroom 34	9,679.00
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Item Notes: Vendor shall provide a list of equipment with Brand and Model for this courtroom in the Response Attachment section of the ebid response.

Supplier Notes:

1.7	1	Lump Sum	2nd Floor - County Court - Courtroom 21	11,536.00
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Item Notes: Vendor shall provide a list of equipment with Brand and Model for this courtroom in the Response Attachment section of the ebid response.

Supplier Notes:

1.8	1	Lump Sum	2nd Floor - County Court - Courtroom 22	10,882.00
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Item Notes: Vendor shall provide a list of equipment with Brand and Model for this courtroom in the Response Attachment section of the ebid response.

Supplier Notes:

1.9	1	Lump Sum	2nd Floor - County Court - Courtroom 23	10,882.00
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Item Notes: Vendor shall provide a list of equipment with Brand and Model for this courtroom in the Response Attachment section of the ebid response.

Supplier Notes:

2	1	PKG	Courtroom Audio Replacement - PHASE 2	\$98,156.00
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Item Notes: Vendor shall provide a list of equipment with Brand and Model for each courtroom and attach in the Response Attachment section of the Ebid response.

Supplier Notes:

Package Line Items:

#	Qty	UOM	Description	Response
2.1	1	Lump Sum	4th Floor - Juvenile Court - Courtroom 40	9,565.00

Item Notes: Vendor shall provide a list of equipment with Brand and Model for this courtroom in the Response Attachment section of the ebid response.

Supplier Notes:

2.2	1	Lump Sum	4th Floor - Juvenile Court - Courtroom 42	9,605.00
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Item Notes: Vendor shall provide a list of equipment with Brand and Model for this courtroom in the Response Attachment section of the ebid response.

Supplier Notes:

2.3	1	Lump Sum	3rd Floor - District Court - Courtroom 30	9,679.00
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Item Notes: Vendor shall provide a list of equipment with Brand and Model for this courtroom in the Response Attachment section of the ebid response.

Supplier Notes:

2.4	1	Lump Sum	3rd Floor - District Court - Courtroom 35	9,679.00
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Item Notes: Vendor shall provide a list of equipment with Brand and Model for this courtroom in the Response Attachment section of the ebid response.

Supplier Notes:

2.5	1	Lump Sum	3rd Floor - District Court - Courtroom 36	9,679.00
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Item Notes: Vendor shall provide a list of equipment with Brand and Model for this courtroom in the Response Attachment section of the ebid response.

Supplier Notes:

2.6	1	Lump Sum	3rd Floor - District Court - Courtroom 37	9,679.00
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Item Notes: Vendor shall provide a list of equipment with Brand and Model for this courtroom in the Response Attachment section of the ebid response.

Supplier Notes:

2.7	1	Lump Sum	3rd Floor - County Court - Courtroom 38	7,624.00
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Item Notes: Vendor shall provide a list of equipment with Brand and Model for this courtroom in the Response Attachment section of the ebid response.

Supplier Notes:

2.8	1	Lump Sum	2nd Floor - County Court - Courtroom 24	10,882.00
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Item Notes: Vendor shall provide a list of equipment with Brand and Model for this courtroom in the Response Attachment section of the ebid response.

Supplier Notes:

2.9	1	Lump Sum	2nd Floor - County Court - Courtroom 25	10,882.00
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Item Notes: Vendor shall provide a list of equipment with Brand and Model for this courtroom in the Response Attachment section of the ebid response.

Supplier Notes:

2.10	1	Lump Sum	2nd Floor - County Court - Courtroom 26	10,882.00
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Item Notes: Vendor shall provide a list of equipment with Brand and Model for this courtroom in the Response Attachment section of the ebid response.

Supplier Notes:

Response Total:	\$189,382.00
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Q-SYS Core 110f

Flex Channel Processor

Features

- 128x128 Network Audio Channels
- 16x16 USB Audio Channels
- 24 Channels of Total Analog Audio
- 8 Configurable Flex Channels
- 16x16 GPIO Logic Ports
- 16 Channels of Routable AEC
- Multiple Instance VoIP Lines
- Single POTS Telephone line
- 3 Year Warranty

The Q-SYS™ Core 110f is the latest addition to the Q-SYS Core family, providing a solution for small, single room projects up to the largest Enterprise scale deployments. QSC's software based DSP platform Q-SYS, gives the systems integrator and end-user a unified software design tool and feature set suitable for projects of any scale. The continuity of the Q-SYS software based DSP platform is unique within the competitor space and allows the Q-SYS Core 110f to leverage all the features that are available across the entire Q-SYS platform to be used in the following applications: Acoustic Echo Canceling (AEC) and sound reinforcement in small to large meeting or multipurpose rooms, sound reinforcement in performance venues such as house of worship and theater, background music systems, wide area paging in airports, convention centers and hospitals.

The Q-SYS Core 110f is a multipurpose software based digital audio signal processor with a total of 8 balanced analog microphone/line level audio inputs and 8 balanced analog microphone/line level audio outputs. In addition to the fixed 8x8 analog audio I/O, the Core 110f features

a software definable bank of 8 balanced analog audio Input/Output Flex Channels, a unique QSC innovation, where each channel can be independently configured during design or run time as either a microphone/line level input or a microphone/line level output. As such, the Core 110f offers class leading 24 analog I/O density plus additional specialized I/O such as VoIP, POTS, Internal Media Playback/Recording HDD and USB.

The Q-SYS Core 110f supports a class leading USB audio device port connection that enables the processor to appear in a Microsoft Windows or Mac OS host operating system simultaneously as both a USB Audio and Communications device. The USB Device port (B type) implementation supports up to 16x16 digital audio channels in a flexible, design time configuration environment that can advertise as multiple virtual USB device instances to the host operating system concurrently over a single physical USB connection. In addition to the USB Device port, the Core 110f provides 6 USB Host ports (A type) which enable the Core to host external USB devices and future Q-SYS peripheral products.

Benefits

- **Class leading I/O:** Q-SYS Core 110f has 24 analog I/O + USB, POTS and VoIP simultaneously in a single rack space and one SKU, offering the best cost to I/O ratio in a single chassis product available on the market from any manufacturer.
- **Flex Channels:** Nearly all the flexibility of a card based DSP solution without the cost and inconvenience of multiple SKU's and custom parts ordering.
- **Unified software platform:** Single training investment in one software design tool rather than needing to learn several platforms to scale from small to large systems or support different applications.
- **Industry leading hardware design:** Future proof investment in standards based software and computer technology running on Intel processors.
- **Industry first, software based DSP:** Q-SYS suite of conferencing technology applications built and owned by QSC from the ground up allowing for continued refinement.
 - o Software based routable AEC; no additional hardware needed
 - o SIP Softphones offering multiple instances per Q-SYS Core; no additional hardware needed
 - o Gain sharing and gating automixers
- **True IT Software Integration:** The Core 110f provides more than just networked audio integration and is not just another hardware DSP. Q-SYS is primarily a software platform that offers greater software integration functionality such as native support for LDAP contact server integration, SNMP monitoring, SIP Softphones, and software based routable AEC implementation; it truly is a next generation AV/IT product that is free of the fixed hardware limitations seen in competing products.

Key Features

- 128x128 channels of Q-LAN™ network audio in single channel streams
- Up to 24 configurable analog audio I/O
- 8 mic/line level analog audio inputs
- 8 line level analog audio outputs
- 8 Flex Channel mic/line level analog audio inputs or outputs
- Up to 16 assignable and routeable AEC processor instances
- Dual Gigabit Ethernet ports with assignable application resources offering any combination of VoIP, Q-LAN Control, Q-LAN audio or network redundancy
- Up to 16x16 channels of digital audio in and out via software definable USB instances advertised to the host operating system
- 16 General Purpose Inputs (GPI) x 16 General Purpose Outputs (GPO)
- Internal Universal Power Supply plus 12 Volt DC External Power Supply input for redundancy or non-mains power supply sources
- Single software platform for system configuration, control and monitoring via Q-SYS Designer software over Ethernet with support for static or Auto/DHCP TCP/IP addressing
- POTS telephone interface via a standard RJ-11 connector
- Supports up to 4 VoIP Softphone instances in addition to the onboard POTS telephone interface
- Fully compatible with all existing and future Q-SYS accessories such as IO Frames, Paging Stations, and Touch Screen Control Surfaces running Q-SYS user control interfaces
- CE marked, UL listed, and RoHS compliant
- Covered by QSC Systems 3-year warranty



Q-SYS Core 110f

Inputs

Q-SYS Core 110f

Input Frequency Response

20Hz to 20kHz @ +21dBu +0.05% / -0.5%

Input THD+N @ 1KHz

@ +21 dBu Sensitivity & +21 dBu input < 0.1%
@ +21 dBu Sensitivity & +10 dBu input < 0.0015%
@ +10 dBu Sensitivity & +8 dBu input < 0.0007%
@ -10 dBu Sensitivity & -10.5 dBu input < 0.0006%
@ -39 dBu Sensitivity & -39.5 dBu input < 0.007%

EIN (no weighting, 20Hz to 20kHz) < -121dB

Input to Input Crosstalk @1kHz > 110dB typical, 90dB Max

Input Dynamic Range

@ +21 dBu Sensitivity > 109.5dB
@ +10 dBu Sensitivity > 106.4dB
@ -10 dBu Sensitivity > 104.6dB
@ -39 dBu Sensitivity > 104.6dB

Input Common Mode Noise Rejection

@ +21 dBu Sensitivity 50.7dB
@ +10 dBu Sensitivity 56.5dB
@ -10 dBu Sensitivity 73.2dB
@ -39 dBu Sensitivity 63.2dB

Input Impedance (balanced) 5K ohms nominal

Input Sensitivity Range (1dB Steps) -39 dBu min to +21 dBu max

Phantom Power +48V DC, 10mA per input max

Sampling Rate 48kHz

A/D – D/A Converters 24-bit

Outputs

Output Frequency Response

20Hz to 20kHz @ all settings +0.2 / -0.5 dB

Output THD 0.003%, +10 dBu max output level

Output Crosstalk @1kHz > 100dB typical, 90dB max

Output Dynamic Range > 108dB

Output Impedance (balanced) 220 ohms

Output Level Range: (1dB Steps) -39 dBu min to +21 dBu max

USB Inputs & Outputs

USB B

Bit Depth 16-bit
Number of Channels up to 16x16
Sample Rate 48kHz

Power Consumption 60 watts, typical. 120 watts max

BTU/Heat load: 205 BTU/Hour

Compliance FCC Part 15B (USA), FCC part 68 / TIA-968-B (USA), JATE (Japan), AS/ACIF S002 (Australia), PTC200 (New Zealand), ES203 021 (Europe), ANATEL Resolution 473 (Brazil), NOM-151-SCTI (Mexico), PSTN01 (Taiwan), Industry Canada CS-03 (Canada), CE marked (Europe), UL and C-UL listed (USA & Canada), RCM (Australia), EAC (Eurasian Customs Union) & RoHS Directive (Europe)

Overall Dimensions/Weight Device Height: 1.75 inches (44 mm) Shipping Height: 6.0 inches (152 mm)
Device Width: 19.0 inches (483 mm) Shipping Width: 23 inches (584 mm)
Device Depth: 11.12 inches (282.5 mm) Shipping Depth: 14 inches (356 mm)
Device Weight: 11 lbs. (5.0 kg) Shipping Weight: 12.4 lbs. (5.6 kg)

Specifications subject to change without notice.

A&E SPECIFICATIONS

The system processor shall have a minimum network channel capability of 128 channels and an end node capacity of at least 128 channels of Q-LAN audio. The system processor shall support 24 total analog I/O capacity and shall be presented in the following groupings; 8 Mic/Line inputs, 8 Mic/Line outputs and 8 Flex Channel I/O which shall be software definable analog inputs or outputs in single channel increments in any combination ratio.

The system processor shall have the following front panel controls and indicators: blue monochrome OLED display with page forward capacitive touch button, Unit ID capacitive touch button, Power On blue LED, Two USB A Type ports. The system processor shall provide a monochrome 304x96 blue OLED graphics display displaying the device name, design name and system status, LAN A and B settings, and the firmware version. Device Status shall be displayed on the OLED display including I/O status, muting, level present indication, and system status.

On the rear panel, the system processor shall have one 3-pin RS232 Euro Block Connector, HDMI Video Out, 16 GPI general purpose control inputs on 20-pin Euro Block Connector, 16 GPO general purpose control outputs on 20-pin Euro Block Connector. Q-SYS Network: LAN A RJ45 1000 MBps only, LAN B: RJ45 1000 MBps only. The dimensions of the System processor shall be 1.75" x 19" x 11.12" (44 mm x 483 mm x 356 mm).

The system processor shall store a single design which can be comprised of components, wiring, links, text, and graphics on a single or multiple schematic pages. Designs shall include any of the following DSP function blocks, test and measurement components, control components, and layout components: Acoustic Echo Cancellers, SIP Softphone instances, USB Audio host and device blocks, Audio Players, Audio Streaming components, Crossfaders, Crossovers, Delay components, Auto Gain control elements, Compressors, Gates, Duckers, Expanders, Ambient Noise Compensators, Limiters, Gain blocks, Graphic Equalizers, Parametric Equalizers, FIR Filters, All-Pass Filters, Band-Pass Filters, Band-Stop Filters, High-Pass Filters, Low-Pass Filters, FIR High-Pass filters, FIR Low-Pass Filters, Dual-Shelf Equalizers, Notch Filters, Meters, Matrix Mixers, Gain-Sharing Automatic Mixers, Gated Automatic Mixers, Signal Routers, Public Address Routers, Room Combiners, Signal Presence Meters, Tone Generators, Tone and Noise Generators, Dual Trace FFT Measurement Modules, Real Time Analyzers, Signal Injectors, and Signal Probes.

The system processor shall support custom user control interfaces on either proprietary touch screen controllers, or network computers utilizing a control application, or iOS devices on Wi-Fi. Custom control interfaces shall be capable of having multiple user-selectable pages with different controls on each.

The system processor and control engine shall be the QSC Q-SYS Core 110f Flex Channel Processor.



QSC™

Q-SYS™

Integrated System
Platform

I/O Frame



Features

- I/O Frames may be equipped with a variety of audio input and output cards
- Premium 24-bit AD and DA conversion used throughout
- I/O Frames may be located with the Core or remotely – whichever best suits the needs of the installation
- Intuitive and easy to use design GUI
- Uses standard Gigabit Ethernet hardware for audio transport and control
- System seamlessly integrates with QSC amplifiers and loudspeakers
- Q-Sys technical support is available 24/7 – worldwide

24/7

Q-Sys™ is a complete integrated system that encompasses everything from the audio input to the output of the loudspeakers; it provides all the routing, processing, control and monitoring, while maintaining the audio quality and reliability QSC has come to be known for.

Physically located near audio sources and destinations, I/O Frames provide the points of connection used to interface Q-Sys with other components of the audio system, such as mixers and power amplifiers.

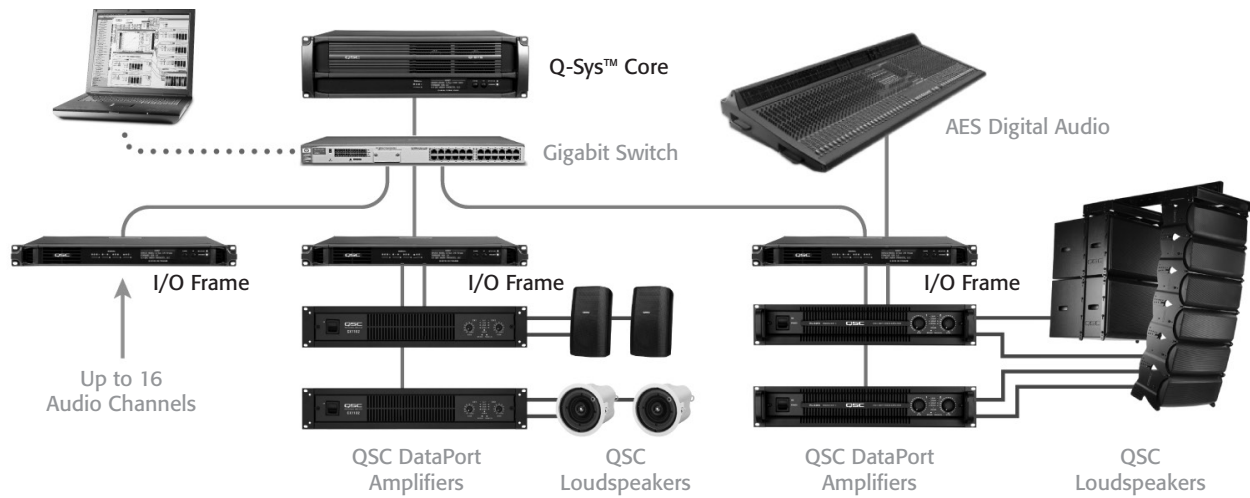
Each I/O Frame features four card slots, which can support up to four of the following I/O cards, mixed and matched in any configuration: **Mic/Line Input card** – Four channels of switchable mic/line-level analog audio input with 48V phantom power (available with standard or premium pre-amps and A/D converters). **Line Output card** – Four channels of balanced, line-level analog output. **DataPort Output card** – Four audio output channels (2 DataPorts) for connection to DataPort equipped QSC amplifiers. **AES Input/Output card** – Four input and four output channels of AES-3 digital audio. The I/O Frame will also support a single network card (such as Cobranet, and future cards such as Dante / AVB) to provide a bridge to the Q-Sys Core, up to 16 inputs and 16 outputs.

One of the primary development goals was to create a platform that had nearly unlimited resources; Q-Sys truly lives up to that goal with unrivaled processing breadth and depth. The design interface was created specifically to harness its unmatched power while remaining intuitive and easy to use. The processing tools are extensive and simple to apply. Once the system is designed, you will find that Q-Sys also offers a useful suite of trouble shooting and measurement tools.

The strength of the centralized architecture used by Q-Sys is that it facilitates the implementation of total or partial system redundancy. A system can be created with Core, Network, I/O Frame and even amplifier redundancy. In a redundant Q-Sys system, a problem with any of the primary devices will result in the backup device taking over. If, for example the Core experiences a failure, the backup core automatically takes over ensuring continued flawless operation.

Q-Sys is a powerful and reliable unified system that features rock-solid performance backed by the unrivaled service and support QSC has built its reputation on. For more information please visit www.qscaudio.com/products/network/Q-Sys.

I/O Frame | Specifications



System Hardware

I/O Frame

Description	System audio input and output device
Front Panel Controls	LCD page forward momentary switch Unit ID button momentary switch Clear settings momentary switch
Front Panel Card Receptacle	–
Front Panel Indicators	Power On: Blue LED Device Status: Tri-color LED Audio Signal: Five tri-color LEDs/per I/O card slot 240 x 64 monochrome LCD graphics display
Rear Panel Connectors	RS-232: DE-9 (male 9-pin D shell connector) GPIO A: DA-15 (female 15-pin D shell connector) Q-Sys Network LAN A: RJ45 1000 MBps only Q-Sys Network LAN B: RJ45 1000 MBps only
I/O Capacity	Up to 16 x 16. Requires purchase of I/O cards.
Line Voltage Requirements	100 VAC – 240 VAC, 50 – 60 Hz
Current Draw	625 mA (120V mains)
Thermal	205 BTU/h (typical)
Dimensions (HWD)	1.75" x 19" x 15" (44.45 mm x 482.6 mm x 381 mm)
Accessories Included	6 ft UL/CSA/IEC line cord • User manual • Optional audio I/O ship kit

As part of QSC's ongoing commitment to product development, specifications are subject to change without notice.



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I/O Frame Spec Sheet 12/21/12



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I/O Cards	Mic/Line Input Card CIML4	High-Performance Mic/Line Input Card CIML4-HP	Line Output Card COL4	DataPort Output Card CODP4
Description	Four channels of microphone/line-level analog audio input with 48V phantom power	Four channels of microphone / line-level analog audio input with 48V phantom power and high performance pre-amplifiers and A/D converters	Four channels of balanced, line-level analog output	Four audio output channels (2 DataPorts) for connection to DataPort equipped QSC amplifiers
Performance				
Dynamic Range Unweighted	> 105 dB	> 112 dB	> 112 dB	> 114 dB
Dynamic Range A-weighted	> 108 dB	> 115 dB	> 115 dB	> 117 dB
Distortion 20 Hz – 20 kHz +4 dBu (nominal input)	< 0.009% THD+N	< 0.004% THD+N	–	–
Distortion 20 Hz – 20 kHz 2 dB below clip (max)	< 0.08% THD+N	< 0.06% THD+N	< 0.004% THD+N	< 0.004% THD+N
Crosstalk 20 Hz – 20 kHz				
Inter-channel (max)	> 100 dB	> 110 dB	> 100 dB	> 95 dB
Inter-channel (typ)	> 110 dB	> 110 dB	> 110 dB	> 100 dB
Intra-channel (max)	> 100 dB	> 110 dB	> 100 dB	> 100 dB
Intra-channel (typ)	> 110 dB	> 110 dB	> 110 dB	> 110 dB
Frequency Response 20 Hz – 20 kHz (max)	± 0.5 dB	± 0.5 dB	± 0.5 dB	± 0.5 dB
Frequency Response 20 Hz – 20 kHz (typ)	± 0.2 dB	± 0.2 dB	± 0.2 dB	± 0.2 dB
Input Impedance				
Balanced (nominal)	10 k ohms	10 k ohms	–	–
Unbalanced (nominal)	10 k ohms	10 k ohms	–	–
Common Mode Rejection 20 Hz – 20 kHz (max)	> 45 dB	> 45 dB	–	–
Common Mode Rejection 20 Hz – 20 kHz (typ)	> 50 dB	> 50 dB	–	–
Max Input Level	0.125, 2.25, 8.70, 17.35 Vrms -16, 10, 21, 27 dBu -18.2, 7.04, 18.8, 24.78 dBv (4 selections)	1.23 to 17.35 Vrms -56 to 27 dBu -58.2 to 24.8 dBv (continuously variable)	–	–
Mute	Infinite attenuation (via digital mute)	Infinite attenuation (via digital mute)	Infinite attenuation (via electro-mechanical relays)	Infinite attenuation (via electro-mechanical relays)
Audio Converters				
Analog to Digital Conversion (ADCs)	24-bit delta-sigma at 48 or 96 kHz sample rate	24-bit delta-sigma at 48 or 96 kHz sample rate	–	–
Digital to Analog Conversion (DACs)	–	–	24-bit delta-sigma at 48 or 96 kHz sample rate	24-bit delta-sigma at 48 or 96 kHz sample rate
Group Delay	< 13 FS (≈ 271 μs) at 48 kHz	< 13 FS (≈ 271 μs) at 48 kHz	< 10 FS (≈ 196 μs) at 48 kHz	< 13 FS (≈ 271 μs) at 48 kHz
Connectors	Four 3-terminal Euro-style detachable terminal blocks	Four 3-terminal Euro-style detachable terminal blocks	Four 3-terminal Euro-style detachable terminal blocks	Two 15-pin HD15 connectors
User-configurable Options (software enabled)				
Phantom Power	+48 V phantom power (meets IEC 1938 [1996] spec)	+48 V phantom power (meets IEC 1938 [1996] spec)	–	–
Output Trim				
Vrms (max)	–	–	8.7 V	–
dBu (max)	–	–	21 dBu	–
dBv (max)	–	–	18.8 dBv	–
Amplifier Standby	–	–	–	Set or clear amplifier in standby mode
Mute	–	–	–	Set or clear individual channel mutes
Enable Meters	–	–	–	Enable data collection of meters for each channel
Audio Output Levels	–	–	–	Adjust individual audio channel levels
Amplifier Model Support	–	–	–	CX, PowerLight™ 3 Series, DCA, and legacy V1 models

I/O Cards	AES-3 Input/Output Card CAES4	CobraNet Bridge Card CCN32
Description	Four input and four output channels of AES-3 digital audio	Up to 32 input and 32 output channels of CobraNet digital audio
Frequency Response	± 0.2 dB	± 0.2 dB
Mute	Infinite attenuation (via digital mute)	Infinite attenuation (via digital mute)
Group Delay	37 Samples (0.760 ms actual) with Sample Rate Converter enabled	Selectable: 64 Samples (2.687 ms actual) 128 Samples (4.020 ms actual) 256 Samples (6.686 ms actual)
I/O Capacity	4x4	Selectable: 4x4 8x8 16x16 32x32 (in Core only)
Bundle Packing	—	0 to 8 channels
Network Transmitters	—	4
Network Receivers	—	4
Management	—	CobraNet management via SNMP
Connectors	Four 3-terminal Euro-style detachable terminal blocks	Dual RJ-45



Mic/Line Analog Input Card



High-Performance Mic/Line Analog Input Card



Analog Line Output Card



DataPort Output Card



AES-3 Digital Input/Output Card



CobraNet™ Digital Input/Output Card



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I/O Card Spec Sheet 12/21/12



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TSC-7t

Tabletop Touchscreen
Dialer/Controller

Features

- Capacitive touch technology eliminates physical knobs and buttons increasing product reliability
- Tabletop, 7", 800 x 480 LCD Panel with anti-glare safety glass
- USB AB Type OTG 2.0 for USB audio connectivity with BYOD (Bring your own Devices) at the table
- Hosts custom user-designed control interfaces created in Q-SYS Designer with ability to control and monitor virtually every system parameter in real time
- Capable of displaying custom bitmapped graphic images, including .bmp, .png, .gif, .tif and .jpg files types
- PoE (Power over Ethernet) for single cable drop installation



TSC-7t

The TSC-7t combines capacitive touch technology with a bright 400 nits, 800 x 480 full color LCD for state-of-the-art control of a Q-SYS™ Platform. Touchscreen control is the ideal user-interface for sophisticated systems in which control needs can range from a few simple parameters, to recall of global snapshots. The TSC-7t can be used to control much more than just audio; a wide variety of equipment can be managed utilizing the Q-SYS Core's GPIO and TCP/IP instruction mechanisms providing true one-touch control of third-party devices.

When multiple TSC-7t controllers control a single system, changes made from one unit will be reflected in real-time on all other displays.

Creation of the custom user screens is accomplished within the Q-SYS environment using the User Control Interface (UCI) tool, which allows selection of any Q-SYS element to be "pulled" into the interface and adjusted for size and color. For applications in which room diagrams, corporate logos or other graphical elements are desired, the TSC-7t can support full-color bit-mapped images.

The TSC-7t tabletop controller is offered in black and designed for elegant table-top use. The carefully designed weighted base with rubber pad prevents the touchscreen from sliding across the table with each button press, while the included threaded mounting post offers rigid and permanent through-table mounting with clean cable management.

Specifications

Front Panel Controls	7", capacitive touch surface
Display	
LCD	Innolux LCD
Luminance	400 nits (400 lumen/candela per square meter)
Resolution	800 x 480
Power Requirements	+12V DC
Power Source	
PoE (Power over Ethernet)	IEEE 802.3af class 3 device via LAN A
Optional External Source (not included)	12VDC @ 1A (12W) Barrel connector: Negative contact – 5mm OD Positive contact – 2.5mm ID
Rear Panel Connectors	
RJ45 (x2)	LAN A (PoE) and LAN B ports (10/100/1000 Mbps)
USB Micro AB Type	USB OTG 2.0
Barrel connector: Power inlet	Accommodates +12 VDC power supply
Reset button	Recessed button – Use a paper clip or similar tool to reset the unit.
Included Accessories	Mounting Post for permanent through-table mounting and cable management
Dimensions (HWD)	4.75" (121mm) x 7.75" (197mm) x 5" (127mm)
Weight (Net)	TBD

Specifications subject to change without notice.





Product Highlights

Flexible Connectivity Options

- 8, 16, 24 or 48 10/100/1000BASE-T ports
- 2 or 4 Gigabit SFP ports
- PoE+ (802.3at) support on select models

Traffic Prioritization for Voice and Video

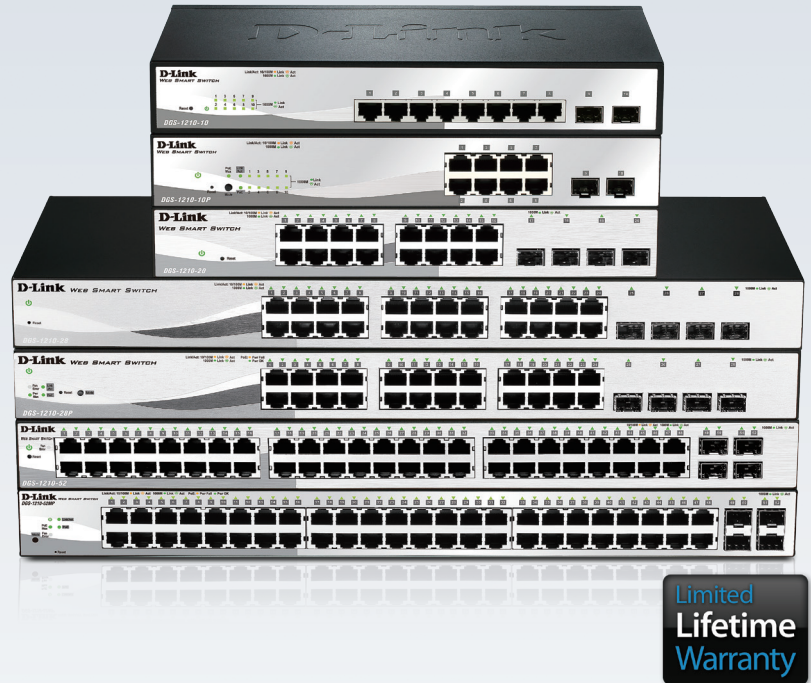
- Auto Surveillance VLAN (ASV) and Auto Voice VLAN ensure security and telephone systems have highest priority

IPv6 Support

- Fully IPv6 compatible and ready for enterprise deployment

Energy Efficient Technology

- IEEE 802.3az EEE and D-Link Green 3.0 technology help reduce energy use and operating costs



DGS-1210 Series

Gigabit Web Smart Switches

Features

Security

- Access Control List
- D-Link Safeguard Engine®
- Port Security
- ARP Spoofing Prevention
- Smart IP-MAC-Port Binding
- DHCP Server Screening

Management

- Web GUI
- D-Link Network Assistant Utility
- Simplified CLI through Telnet
- SNMP and RMON
- IPv4/ IPv6 Dual Stack

QoS

- Supports IEEE 802.1p Quality of Service
- Supports DSCP

Advanced Features

- Auto Surveillance VLAN
- Auto Voice VLAN
- Port or VLAN-based Loopback Detection
- Cable Diagnostics
- LLDP/LLDP-MED

Overview

The DGS-1210 Series is the latest generation of D-Link® Gigabit Web Smart Switches featuring D-Link Green 3.0 technology. The switches comply with the IEEE 802.3az Energy Efficient Ethernet standard. Support for IPv6 management and configuration features ensures your network remains protected after an upgrade from IPv4 to IPv6. By offering multiple management options, these switches allow quick deployment, infrastructure expansion, and seamless upgrades. Targeting small and medium sized businesses, the DGS-1210 Web Smart switches provide functionality, security, and manageability for a fraction of the standard cost of ownership.

The DGS-1210 Series switches support 8, 16, 24, or 48 10/100/1000BASE-T ports. In addition, each switch supports 2 or 4 Gigabit SFP ports for optical connections using multimode or singlemode SFP transceivers.

PoE Support

Several models in the DGS-1210 series family support Power-over-Ethernet capabilities, simplifying deployments with IP cameras, VoIP phones, wireless access points, and other powered devices. These models include the DGS-1210-10P, DGS-1210-28P and DGS-1210-52MP. Using the switch's management interface, an administrator can control various PoE functions, such as remotely rebooting cameras or access points, from anywhere on the network, including over the Internet. The switches also support time-based PoE – an option that allows administrators to set a time window that determines when each port's PoE power is turned on and off.

Energy Saving

The DGS-1210 Series Switches are capable of conserving power without sacrificing operational performance or functionality by using D-Link Green 3.0 technology. Using the Energy Efficient Ethernet standard, the network will automatically decrease the power usage when traffic is low. For environments not fully supporting the standard, these switches offer advanced power-saving settings including port shutoff, LED shutoff, and system hibernation based on custom time profiles. The time profiles can also be applied to the PoE switches so that unnecessary power consumption can be saved during off hours.

Easy Management

The D-Link Web Smart Switch series is designed for easy management. All configuration can be performed through an intuitive browser-based Graphical User Interface regardless of the host PC's operating system. The DGS-1210 Series switches also support a D-Link Network Assistant Utility that enables administrators to remotely control their network down to the port level. This utility allows customers to easily discover multiple D-Link Web Smart Switches within the same L2 network segment. With this utility, users do not need to change the IP address of their PC. It also simplifies the initial setup by taking switches, within the same L2 network segment, that are connected to the user's PC, and displaying them on screen for instant access. This allows extensive switch configuration and basic setup of discovered devices, including password changes and firmware upgrades. In addition, the DGS-1210 Series supports D-View® 6.0 and Compact Command Line Interface (CLI) through Telnet. D-View 6.0 is a network management system that allows for the central management of critical network characteristics such as availability, reliability, resilience, and security.

Auto Surveillance VLAN and Voice VLAN

The D-Link Web Smart series automates the process of setting up IP surveillance and VoIP devices on a network. Auto Surveillance VLAN consolidates data and surveillance video transmission through the network, sparing businesses the expense of maintaining dedicated facilities. ASV also protects the quality of real-time video by grouping IP surveillance devices on a single high priority VLAN. This ensures that surveillance video streams will not be affected when ordinary data traffic is at a high level. Similarly, the Auto Voice VLAN guarantees clear quality and efficient transmission for all voice communication.

Extensive Layer 2 Features

Equipped with a complete lineup of L2 features, these switches include IGMP Snooping, Port Mirroring, Spanning Tree, and Link Aggregation Control Protocol (LACP). The IEEE 802.3x Flow Control function allows servers to directly connect to the switch for fast, reliable data transfer. At 2000 Mbps Full Duplex, the Gigabit ports provide high-speed data pipes to servers with minimum data transfer loss. Network maintenance features include Loopback Detection and Cable Diagnostics. Loopback Detection is used to detect loops created by a specific port and automatically shut down the affected port. The Cable Diagnostic feature designed primarily for administrators and customer service representatives, can rapidly discover the type of error and determine the cable quality.

Secure your Network

D-Link's innovative Safeguard Engine protects the switches against traffic flooding caused by virus attacks. The switches also support 802.1X port-based authentication, allowing the network clients to be authenticated through external RADIUS servers. In addition, the Access Control List (ACL) feature enhances network security and protects the network by screening traffic from illegal MAC or IP addresses. ARP Spoofing Prevention prevents malicious intruders from sending massive fake ARP messages through a manipulated source. This protects important data from being stolen by Man-in-the-Middle attacks, and prevents wasting CPU cycles on these packets. For added security, the DHCP Server Screening feature blocks rogue DHCP server packets from user ports to prevent unauthorized IP assignment.

Limited Lifetime Warranty

D-Link offers a Limited Lifetime Warranty on the DGS-1210 Series Web Smart switches to further its commitment to product quality and long-term customer confidence.





Technical Specifications	DGS-1210-10	DGS-1210-20	DGS-1210-28	DGS-1210-52
General				
Port Standards & Functions	<ul style="list-style-type: none"> • IEEE 802.3 10BASE-T Ethernet • IEEE 802.3u 100BASE-TX (Fast Ethernet) • IEEE 802.3ab 1000BASE-T (Gigabit Ethernet) • IEEE 802.3x Flow Control for Full-Duplex Mode • Auto-negotiation 			
Number of Ports	• 8 10/100/1000 Mbps • 2 SFP	• 16 10/100/1000 Mbps • 4 SFP	• 24 10/100/1000 Mbps • 4 SFP	• 48 10/100/1000 Mbps • 4 SFP
Network Cables	<ul style="list-style-type: none"> • UTP Cat. 5, Cat. 5e (100 m max.) • EIA/TIA-568 100-ohm STP (100 m max.) 			
Full/Half Duplex	<ul style="list-style-type: none"> • Full/half duplex for 10/100 Mbps speeds • Full duplex for Gigabit speed 			
Media Interface Exchange	Auto or configurable MDI/MDIX			
Performance				
Switching Capacity	20 Gbps	40 Gbps	56 Gbps	104 Gbps
Transmission Method	Store-and-forward			
MAC Address Table	16,000 entries per device			
MAC Address Update	<ul style="list-style-type: none"> • Up to 256 static MAC entries • Enable/disable auto-learning of MAC addresses 			
Maximum 64 bytes packet forwarding rate	14.88 Mpps	29.8 Mpps	41.7 Mpps	77.4 Mpps
Packet Buffer Memory	1.5 MB	1.5 MB	1.5 MB	3.0 MB
Physical & Environment				
AC Input	100 to 240 VAC 50/60 Hz internal universal power supply			
Maximum Power Consumption	13.59 W	16.09 W	22.45 W	38.27 W
Standby Power Consumption	9.3 W/110 V, 9.4 W/240 V	8.59 W/110 V, 8.80 W/240 V	17.65 W/110 V, 17.84 W/240 V	29.44 W/110 V, 29.49 W/240 V
Fan Quantity	0	0	0	Two smart fans
Acoustics	0 dB(A)	0 dB(A)	0 dB(A)	Low speed: 39.8 dB(A) High speed: 49.2 dB(A)
Heat Dissipation	46.37 BTU/hr	54.91 BTU/hr	76.55 BTU/hr	130.58 BTU/hr
Operating Temperature	23 to 122 °F (-5 to 50 °C)			
Storage Temperature	-4 to 158 °F (-20 to 70 °C)			
Operating Humidity	0% to 95% non-condensing			
Storage Humidity	0% to 95% non-condensing			



Dimensions	<ul style="list-style-type: none"> • 11.02 x 4.96 x 1.73 inches (280 x 126 x 44 mm) • 19" standard rack mounting width, 1U height 	<ul style="list-style-type: none"> • 11.02 x 7.09 x 1.73 inches (280 x 180 x 44 mm) • 19" standard rack mounting width, 1U height 	<ul style="list-style-type: none"> • 17.32 x 5.51 x 1.73 inches (440 x 140 x 44 mm) • 19" standard rack mounting width, 1U height 	<ul style="list-style-type: none"> • 17.32 x 8.27 x 1.73 inches (440 x 210 x 44 mm) • 19" standard rack mounting width, 1U height
Weight	3.39 lbs (1.54 kg)	2.82 lbs (1.28 kg)	3.68 lbs (1.67 kg)	5.69 lbs (2.58 kg)
Diagnostic LEDs	<ul style="list-style-type: none"> • Power (per device) • Link/Activity/Speed (per 10/100/1000 Mbps port) • Link/Activity/Speed (per SFP port) 	<ul style="list-style-type: none"> • Power (per device) • Link/Activity/Speed (per 10/100/1000 Mbps port) • Link/Activity/Speed (per SFP port) 	<ul style="list-style-type: none"> • Power (per device) • Link/Activity/Speed (per 10/100/1000 Mbps port) • Link/Activity/Speed (per SFP port) 	<ul style="list-style-type: none"> • Power (per device) • Link/Activity/Speed (per 10/100/1000 Mbps port) • Link/Activity/Speed (per SFP port) • Fan (per device)
MTBF	360,844 hours	317,412 hours	540,000 hours	481,624 hours
Certifications	<ul style="list-style-type: none"> • FCC Class A • CE Class A • ICES-003 • VCCI Class A • C-Tick • BSMI 			
Safety	<ul style="list-style-type: none"> • cUL • CE LVD 			



Technical Specifications	DGS-1210-10P	DGS-1210-28P	DGS-1210-52MP
General			
Port Standards & Functions	<ul style="list-style-type: none"> • IEEE 802.3 10BASE-T Ethernet • IEEE 802.3u 100BASE-TX (Fast Ethernet) • IEEE 802.3ab 1000BASE-T (Gigabit Ethernet) • IEEE 802.3x Flow Control for Full-Duplex Mode <ul style="list-style-type: none"> • IEEE 802.3af compliance • IEEE 802.3at compliance • Auto-negotiation 		
Number of Ports	<ul style="list-style-type: none"> • 8 10/100/1000 Mbps PoE • 2 SFP 	<ul style="list-style-type: none"> • 24 10/100/1000 Mbps PoE • 4 SFP 	<ul style="list-style-type: none"> • 48 10/100/1000 Mbps PoE • 4 SFP
Network Cables	<ul style="list-style-type: none"> • UTP Cat. 5, Cat. 5e, Cat 6 (100 m max.) • EIA/TIA-568 100-ohm STP (100 m max.) 		
Full/Half Duplex	<ul style="list-style-type: none"> • Full/half duplex for 10/100 Mbps speeds • Full duplex for Gigabit speed 		
Media Interface Exchange	Auto or configurable MDI/MDIX		
Performance			
Switching Capacity	40 Gbps	56 Gbps	104 Gbps
Transmission Method	Store-and-forward		
MAC Address Table	16,000 entries per device		
MAC Address Update	<ul style="list-style-type: none"> • Up to 256 static MAC entries • Enable/disable auto-learning of MAC addresses 		
Maximum 64 bytes packet forwarding rate	14.88 Mpps	41.7 Mpps	77.4 Mpps
Packet Buffer Memory	1.5 MB	1.5 MB	3.0 MB
PoE			
PoE Standard	IEEE 802.3af and IEEE 802.3at		
PoE Capable Ports	<ul style="list-style-type: none"> • Ports 1 to 8: Up to 30 W 	<ul style="list-style-type: none"> • Ports 1 to 4: Up to 30 W • Ports 5 to 24: Up to 15.4 W 	<ul style="list-style-type: none"> • Ports 1 to 8: Up to 30 W • Ports 9 to 48: Up to 15.4 W
PoE Power Budget	Max. 78 W	Max. 193 W	Max. 370 W



Physical & Environment			
AC Input	100 to 240 VAC 50/60Hz internal power supply		
Maximum Power Consumption	103.4 W (PoE on), 17.9 W (PoE off)	251.3 W (PoE on), 21.9 W (PoE off)	483.1 W (PoE on), 48.9 W (PoE off)
Standby Power Consumption	10.3 W/110 V, 11.1 W/240 V	24 W/110 V, 21.9 W/240 V	29.5 W/110 V, 27.5 W/240 V
Fan Quantity	0	Two smart fans	Three smart fans
Acoustics	0 dB(A)	Low speed: 47 dB(A) High speed: 52.4 dB(A)	Low speed: 40.4 dB(A) High speed: 50.1 dB(A)
Heat Dissipation	352.63 BTU/hr	840.89 BTU/hr	1648.23 BTU/hr
Operating Temperature	23 to 122 °F (-5 to 50 °C)		
Storage Temperature	-4 to 158 °F (-20 to 70 °C)		
Operating Humidity	0% to 95% non-condensing		
Storage Humidity	0% to 95% non-condensing		
Dimensions	<ul style="list-style-type: none"> • 11.02 x 7.08 x 1.73 inches (280 x 180 x 44 mm) • 19" standard rack mounting width, 1U height 	<ul style="list-style-type: none"> • 17.32 x 8.27 x 1.73 inches (440 x 210 x 44 mm) • 19" standard rack mounting width, 1U height 	<ul style="list-style-type: none"> • 17.32 x 16.9 x 1.73 inches (440 x 430 x 44 mm) • 19" standard rack mounting width, 1U height
Weight	3.1 lbs (1.41 kg)	5.60 lbs (2.54 kg)	12.74 lbs (5.78 kg)
Diagnostic LEDs	<ul style="list-style-type: none"> • Power (per device) • PoE Max (per Device) • Link/Activity/Speed (per 10/100/1000Base-T port) • Link/Activity/Speed (per SFP port) • Fan (per device) • Button to switch LED display mode between PoE and Link/Activity 		
MTBF	315,336 hours	239,236 hours	318,616 hours
Certifications	<ul style="list-style-type: none"> • FCC Class A • CE Class A • ICES-003 • VCCI Class A • C-Tick • BSMI 		
Safety	<ul style="list-style-type: none"> • cUL • CE LVD 		

Software Features

L2 Features	<ul style="list-style-type: none"> • MAC Address Table <ul style="list-style-type: none"> • 16K entries • IGMP Snooping <ul style="list-style-type: none"> • IGMP v1/v2 Snooping • Supports 256 IGMP groups • Supports at least 64 static multicast addresses • IGMP per VLAN • Supports IGMP Snooping Querier • Loopback Detection • 802.3ad Link Aggregation: <ul style="list-style-type: none"> • DGS-1210 28/28P: Maximum of 14 groups/8 ports per group • DGS-1210 52/52MP: Maximum of 26 groups/8 ports per group • DGS-1210 -10/10P: Maximum of 5 groups/8 ports per group • LLDP • LLDP-MED • Jumbo Frame <ul style="list-style-type: none"> • Up to 9,216 bytes 	<ul style="list-style-type: none"> • Spanning Tree Protocol <ul style="list-style-type: none"> • 802.1D STP • 802.1w RSTP • Flow Control <ul style="list-style-type: none"> • 802.3x Flow Control • HOL Blocking Prevention • Port Mirroring <ul style="list-style-type: none"> • One-to-One • Many-to-One • Supports Mirroring for Tx/Rx/Both • Multicast Filtering <ul style="list-style-type: none"> • Forwards all unregistered groups • Filters all unregistered groups • Configurable MDI/MDIX <ul style="list-style-type: none"> • MLD snooping v1/v2 (256 groups)
VLAN	<ul style="list-style-type: none"> • 802.1Q • VLAN Group • Max. 256 static VLAN groups • Configurable VID from 1 - 4094 • Asymmetric VLAN 	<ul style="list-style-type: none"> • Auto Voice VLAN <ul style="list-style-type: none"> • Max. 10 user-defined OUI • Max. 8 default OUI • Auto Surveillance VLAN
QoS (Quality of Service)	<ul style="list-style-type: none"> • 802.1p Quality of Service • 8 queues per port • Queue Handling <ul style="list-style-type: none"> • Strict • Weighted Round Robin (WRR) • Bandwidth Control <ul style="list-style-type: none"> • Port-based (Ingress/Egress, min granularity 10/100/1000 is 64 Kbps) 	<ul style="list-style-type: none"> • QoS based on: <ul style="list-style-type: none"> • 802.1p Priority Queues • DSCP • ToS • IPv6 Traffic Class • TCP/UDP port
L3 Features	<ul style="list-style-type: none"> • IP Interface <ul style="list-style-type: none"> • Supports 1 interface 	<ul style="list-style-type: none"> • IPv6 Neighbor Discovery (ND)
Access Control List (ACL)	<ul style="list-style-type: none"> • Max. 50 access list • Max. 768 rules shared by IPv4, MAC and IPv6 • Each rule can only be associated with a single port • ACL based on <ul style="list-style-type: none"> • 802.1p priority • VLAN • MAC address 	<ul style="list-style-type: none"> • Ether type • IP address • DSCP • Protocol type • TCP/UDP port number • IPv6 Traffic Class
Security	<ul style="list-style-type: none"> • Broadcast/Multicast/Unicast Storm Control • D-Link Safeguard Engine • DHCP Server Screening • IP-MAC-Port Binding (Smart Binding) <ul style="list-style-type: none"> • Supports 512 address binding entries • ARP Inspection • ARP + IP Inspection • Supports DHCP Snooping • 802.1X Port-based Access Control 	<ul style="list-style-type: none"> • ARP Spoofing Prevention <ul style="list-style-type: none"> • Max. 64 entries • Traffic Segmentation • SSH v2 • SSL <ul style="list-style-type: none"> • Supports v1/v2/v3 • Port Security <ul style="list-style-type: none"> • Supports up to 64 MAC addresses per port • Duplicate address detection
AAA	<ul style="list-style-type: none"> • 802.1X Authentication <ul style="list-style-type: none"> • Supports local/RADIUS database • Supports port-based access control • Supports EAP, OTP, TLS, TTLS, PEAP 	<ul style="list-style-type: none"> • IPv6 RADIUS Server • Support MD5 authentication

MIB/RFC Standards	<ul style="list-style-type: none"> • RFC 783 TFTP • RFC 951 BootP/DHCP Client • RFC 1157 SNMP v1, v2, v3 • RFC 1213 MIB II • RFC 1215 MIB Traps Convention • RFC 1350 TFTP • RFC 1493 Bridge MIB • RFC 1769 Sntp • RFC 1542 BootP/DHCP Client • RFC 1901 SNMP v1, v2, v3 • RFC 1907 SNMP v2 MIB • RFC 1908 SNMP v1, v2, v3 • RFC 2131 BootP/DHCP Client • RFC 2138 RADIUS Authentication • RFC 2139 RADIUS Authentication • RFC 2233 Interface Group MIB 	<ul style="list-style-type: none"> • RFC-2246 SSL • RFC 2475 • RFC 2570 SNMP v1, v2, v3 • RFC 2575 SNMP v1, v2, v3 • RFC 2598 CoS • RFC 2618 RADIUS Authentication • RFC 2819 RMON v1 • RFC 2865 RADIUS Authentication • RFC 3164 System Log • RFC 3195 System Log • RFC 3411-17 SNMP • D-Link Private MIB • LLDP MIB • Zone Defense MIB • 2233 Interface Group MIB
OAM	<ul style="list-style-type: none"> • Cable Diagnostics 	<ul style="list-style-type: none"> • Factory Reset
Management	<ul style="list-style-type: none"> • Web-based GUI • D-Link Network Assistant Utility • Compact CLI • Telnet Server • TFTP Client • Configurable MDI/MDIX • SNMP <ul style="list-style-type: none"> • Supports v1/v2c/v3 • SNMP Trap • Backup/Upgrade firmware • Smart Wizard • Upload/Download Configuration file 	<ul style="list-style-type: none"> • System Log <ul style="list-style-type: none"> • Max. 500 log entries • BootP/DHCP Client • Sntp • ICMP v6 • IPv4/v6 Dual Stack • DHCP Auto Configuration • Time Setting <ul style="list-style-type: none"> • Sntp • RMONv1 • Trusted Host
D-Link Green 3.0 Technology	<ul style="list-style-type: none"> • Power Saving by: <ul style="list-style-type: none"> • Link Status • Time-based PoE: PoE ports can be turned on/off by port or system through schedule 	<ul style="list-style-type: none"> • LED Shutoff • System Hibernation • Port Shutoff

Warranty Information	
Warranty	Limited Lifetime ¹
Ordering Information	
Part Number	Description
DGS-1210-10	10-Port Gigabit Web Smart Switch including 2 Gigabit SFP ports
DGS-1210-10P	10-Port Gigabit Web Smart PoE+ Switch including 2 Gigabit SFP ports
DGS-1210-20	20-Port Gigabit Web Smart Switch including 4 Gigabit SFP ports
DGS-1210-28	28-Port Gigabit Web Smart Switch including 4 Gigabit SFP ports
DGS-1210-28P	28-Port Gigabit Web Smart PoE+ Switch including 4 Gigabit SFP ports
DGS-1210-52	52-Port Gigabit Web Smart Switch including 4 Gigabit SFP ports
DGS-1210-52MP	52-Port Gigabit Web Smart PoE+ Switch including 4 Gigabit SFP ports
Optional SFP Transceivers	
DGS-712	1000BASE-T Copper SFP Transceiver
DEM-310GT	1000BASE-LX Single-mode, SFP Transceiver up to 10 km
DEM-311GT	1000BASE-SX Multi-mode, SFP Transceiver up to 550 km
Optional Software	
DV-600S	D-View 6.0 Network Management System (Standard Edition)
DV-600P	D-View 6.0 Network Management System (Professional Edition)

¹ Limited lifetime warranty available only in the U.S.A.

Last updated: 01/29/2015. Hardware REV C.

U.S.A. | 17595 Mt. Herrmann Street | Fountain Valley, CA 92708 | 800.326.1688 | dlink.com

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Visit www.dlink.com for more details.

D-Link[®]
Building Networks for People



DN-508A 8 Zone Amplifier

Key Features:

- Eight channel (zones) inputs
- Eight zone output (4 ohm, 70/100V)
- 55W class D amplifier per zone
- Individual level control per zone
- Signal/Peak indicators for each zone
- Contractor-friendly Euroblock connections

Overview:

The Denon Professional DN-508A is an 8-channel zone amplifier perfect for commercial applications such as background music, paging, multi-zone entertainment, etc. It features eight channels of efficient, cool-running Class D amplification, each rated at 55 watts with less than 0.5% THD. Eurobloc connections ensure fast, reliable hook up—critical to your commercial/contractor business. There are individual volume adjustments and signal/peak indicators for every channel, giving you complete control of the system.

For unsurpassed versatility, the DN-508A can be used with 70/100V systems and it also has low-impedance (4 ohm) drive capability. There is no system configuration it can't handle!

With a signal-to-noise ratio in excess of 90dB at rated power, a dynamic range of 95dB and channel separation of 60dB, the DN-508A is uniquely capable of providing clean, reliable power to multiple speakers in a demanding commercial application. It's a perfect system companion to the DN-508MX Zone Mixer.

Specifications:

- Audio Specification
 - Output Power: > 55W RMS (per channel, 4 Ohm load)
 - Frequency Response: 85 Hz – 20 kHz (at -3 dB)
 - Channel Separation: > 60 dB
 - Input Impedance: > 10 kΩ
 - Dynamic Range: 95dB
 - Range of Volume Controls: -13dBm to +26dBm
 - Total Harmonic Distortion
 - 1W: < 0.1% (1 kHz)
 - 55W: < 0.5% (1 kHz)
 - Signal-To-Noise Ratio
 - 1W: > 70 dB (1 kHz, 0 dB, A-weighted)
 - 55W: > 90 dB (1 kHz, 0 dB, A-weighted)
 - Input Sensitivity
 - 1W: 100+10 mV
 - 55W: 900+50 mV
- Connectors
 - (8) Euroblock zone outputs (com, 4 ohm, 70V, 100V)
 - (8) Euroblock zone inputs (ground, -, +)
 - (1) IEC power inlet
- Power
 - Connection: IEC
 - Input Voltage: 100–240 VAC, 50/60 Hz (with voltage selector)
 - Fuse: T8AL (100–120 V, 60 Hz), T4AL (220–240 V, 50 Hz)
 - Consumption: 76.5W at 1/8 volume, 612W at full volume
- Environmental
 - Operating Temperature Range: 0 to 50 degrees Celcius
 - Storage Temperature Range: -20 to 70 degrees Celcius
 - Operating Humidity Range: 25-85%
- General
 - Dimensions (WDH): 19.0 x 16.3 x 3.5" (483 x 415 x 88mm)
 - Weight: 41.2 lbs (18.7kg)



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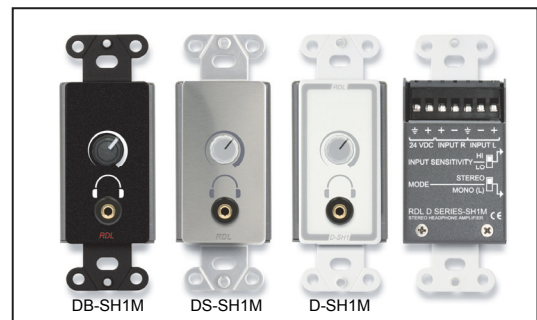
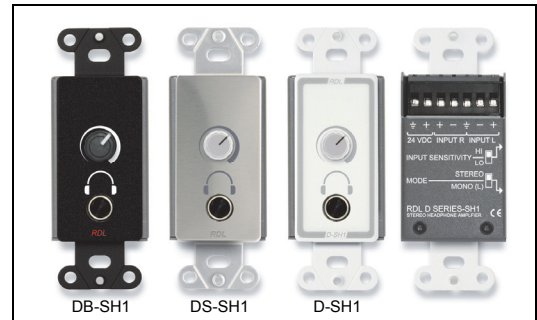
SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

ACCESSORIES

Models **D-SH1, DB-SH1, DS-SH1**
Stereophonic Headphone Amplifier
1/4" (6.3mm) Jack

Models **D-SH1M, DB-SH1M, DS-SH1M**
Stereophonic Headphone Amplifier
1/8" (3.5mm) Jack

- Integral Long-Life VCA Stereo Level Control
- Balanced or Unbalanced Inputs
- Switch-Selectable Input Sensitivity
- Switch-Selectable Mono (Left) or Stereo Operation
- Amplifier To Drive High or Low Impedance Headsets
- Output: 1/4" (6.3 mm) standard headphone jack (-SH1)
- Output: 1/8" (3.5 mm) mini jack (-SH1M)
- Convenience of Decora® Mounting Possibilities



The D SERIES-SH1/M is a Decora-compatible stereophonic headphone amplifier from Radio Design Labs. All metal enclosures are attractively finished in white, black or brushed stainless steel to complement the decor encountered in commercial environments. Custom labeling is available at www.rdl.net.com.

APPLICATION: The D SERIES-SH1/M is used in applications requiring headphones of any impedance to be driven from consumer or professional audio sources. The -SH1/M is ideally suited to applications as diverse as language translation, museums, interview studios and music stores.

The -SH1/M is a dual channel headphone amplifier with balanced/unbalanced left (**INPUT L**) and right (**INPUT R**) inputs. Each input accepts operating levels between -20 dBV and +20 dBu. Two recessed slide switches located on the side of the rear enclosure are set prior to mounting the module. One switch is provided for setting the **INPUT SENSITIVITY**. The **MODE** switch selects between stereo and mono operation. In the **MONO (L)** position, the left input is used to drive both output channels. When the module is used in a monaural system, only the left channel input must be wired. The front panel level control is a long-life potentiometer controlling matched VCAs. Audio does not pass through this control, assuring years of noise-free level adjustment. The output amplifiers deliver more than 50 mW into either high or low impedance headphones through a durable, metal 1/4" (6.3 mm) standard headphone jack (-SH1) or a 1/8" (3.5 mm) mini jack (-SH1M).

Module operation is from a 24 Vdc ground-referenced power supply. It can also operate from a 12 Vdc supply with a 6 dB reduction in headroom and a maximum output power of 10 mW.

The versatile input level range, low distortion, audio clarity and excellent crosstalk performance make this module ideally suited to a wide variety of audio applications. Use this module in conjunction with other RDL modules as part of a high quality, flexible audio/video system.



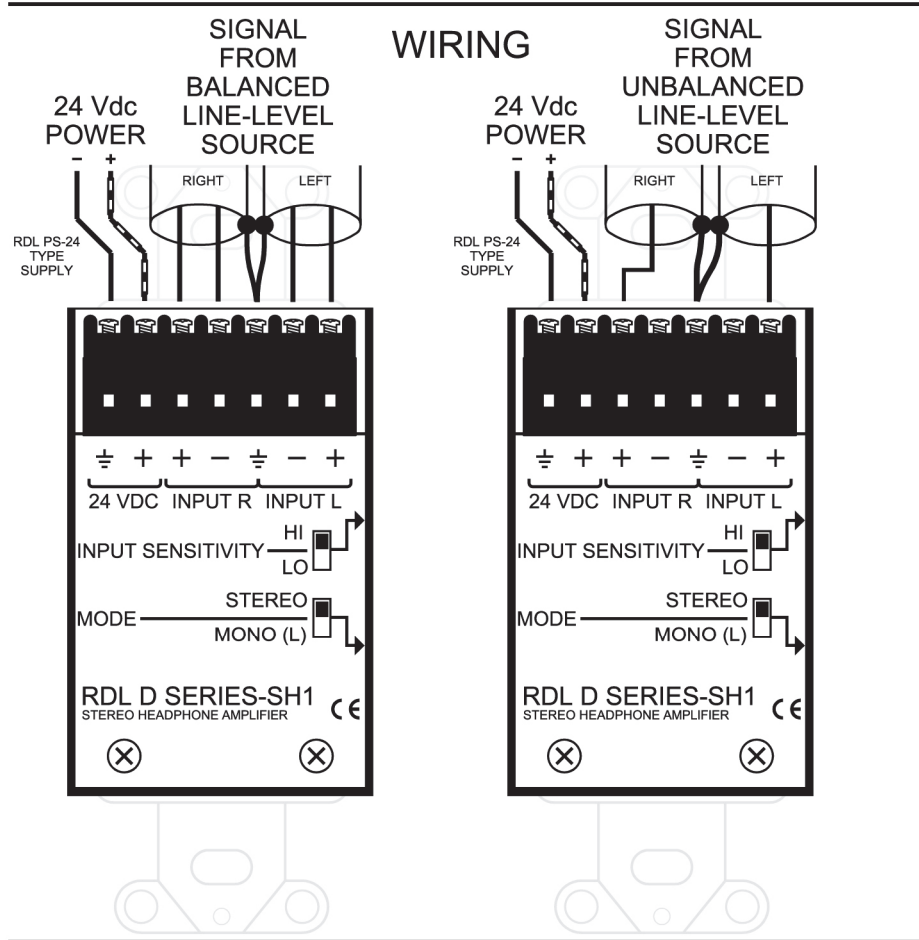
Accessories

Models D-SH1/M, DB-SH1/M, DS-SH1/M Stereophonic Headphone Amp

Installation/Operation



EN55103-1 E1-E5; EN55103-2 E1-E4
Typical Performance reflects product at publication time exclusive of EMC data, if any, supplied with product. Specifications are subject to change without notice.



TYPICAL PERFORMANCE

Inputs (2):	10 kΩ balanced or unbalanced bridging
Input Level:	+4 dBu nominal (Low input sensitivity) balanced; -15 dBV nominal (High input sensitivity) unbalanced
Maximum Input Level:	+21 dBu (Low input sensitivity) balanced; +3 dBV (High input sensitivity) unbalanced
Output Signal (normal rated):	10 mW into 100 Ω
Output Signal (maximum):	50 mW into 100 Ω
THD+N:	< 0.5% @ 1 kHz
Frequency Response:	30 Hz to 20 kHz (± 2 dB)
Noise:	< -70 dB below normal operating level
Gain:	User-adjustable on front panel; 18.5 dB (maximum, High input sensitivity); Unity (maximum, Low input sensitivity)
CMRR:	> 60 dB (50 to 120 Hz)
Crosstalk:	Below noise floor (20 Hz to 20 kHz)
Ambient Operating Environment:	0° C to 55° C
Power Requirement:	24 Vdc @ 50 mA, Ground referenced

Radio Design Labs Technical Support Centers

U.S.A. (800) 933-1780, (928) 778-3554; Fax: (928) 778-3506

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SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

POWER SUPPLIES

Model PS-24AS

**24 Vdc Switching Power Supply, North American AC Plug,
500 mA, dc Plug**



TYPICAL PERFORMANCE

- Input: 100 to 240 VAC.
- Output: 24 Vdc, 500 mA (UL, CSA).
- Dimensions: 1.80 in. (4.6 cm) x 2.76 in. (7 cm) x 1.37 in. (3.8 cm), nominal.
- Efficiency: ENERGY STAR Level IV.

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ACCESSORIES

DC-1B, DC-2B, DC-3B, DC-4B

DC-1G, DC-2G, DC-3G, DC-4G

DC-1W, DC-2W, DC-3W, DC-4W

Desk Top Chassis

(B-Black, G-Gray, W-White)

The DC-1, 2, 3 and 4 desk top chassis hold one, two, three or four Decora®-style products, including RDL remote controls and connector plates.

Installation/Operation

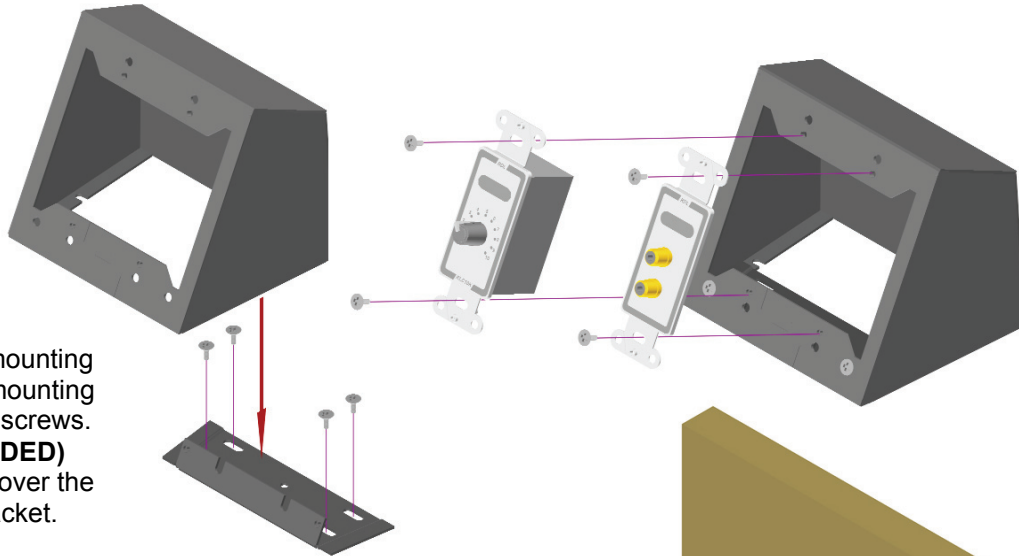
EN55103-1 E1-E5; EN55103-2 E1-E4

Typical Performance reflects product at publication time exclusive of EMC data, if any, supplied with product. Specifications are subject to change without notice.

Step 1

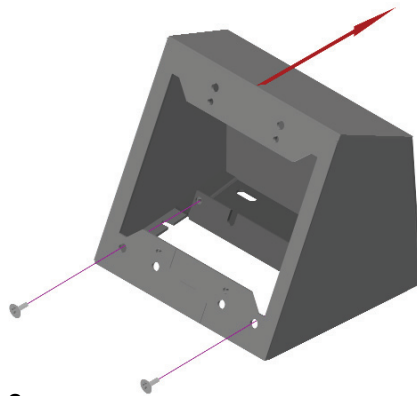
Attach the DC mounting bracket to the mounting surface using 4 screws. **(NOT INCLUDED)**

Set the chassis over the mounting bracket.

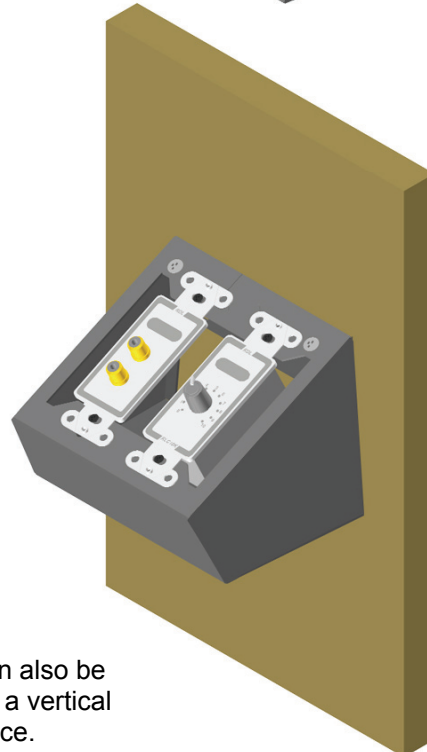


Step 2

Slide the chassis over the mounting bracket and secure with the two screws.



The DC can also be mounted to a vertical surface.





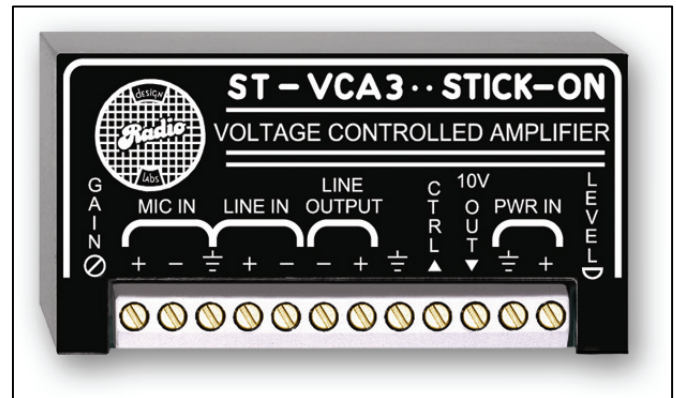
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SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

STICK-ON[®] SERIES Model ST-VCA3 Voltage Controlled Amplifier

- Audio Level Control from a DC Voltage
- Audio Level Remote Control
- Two Wire with Shield or Three Wire Control
- VCA with Microphone or Line Level Input
- VCA with Line Level Output
- VCA with LED Metering of Operating Level

The ST-VCA3 is a voltage controlled preamplifier in the convenient line of STICK-ON products, featuring the superior engineering and components common to RDL products. The ST-VCA3 may be rack or surface mounted with optional STICK-ON series accessories. The ST-VCA3 gives you the advantages of audio level remote control with the added convenience of STICK-ONs! STICK-ONs are designed, built and rated for continuous duty in professional A/V systems.



ASSOCIATED REMOTE CONTROL EXAMPLES:

- ▶ D SERIES-RLC10K Wall mounted remote controls
- ▶ D SERIES-RLC10KM Wall mounted remote controls with muting
- ▶ D SERIES-RLC10 Rotary encoder remote control
- ▶ D SERIES-RLC10M Rotary encoder remote control with muting
- ▶ D SERIES-RLC3 Remote control with preset levels
- ▶ RLC10R Rotary encoder remote control
- ▶ AMS-10K Linear potentiometer remote control

APPLICATION: The ST-VCA3 is a high performance voltage controlled amplifier with two inputs and one output. The line input is designed to accept an input signal with operating levels between -20 dBV and +4 dBu. The microphone input accepts low or high impedance microphones with output levels from -60 to -44 dBu. Only one of the inputs may be used at a time. A multi-turn trimmer is provided for setting the correct input gain according to the dual-LED VU meter located directly in front of the gain control. The intended output level is +4 dBu for 10 Vdc at the **CTRL** input terminal. The green metering LED begins illuminating at 15 dB below +4 dBu. The green LED progresses to full intensity at +4 dBu. The adjacent red LED illuminates at +4 dBu.

Terminals are provided for connection of an external ramp generator (0 to 10 Vdc) or a linear taper 10 kΩ potentiometer remote control. The RDL RLC10K is most commonly used. Three terminals are provided for external control; a single-pair shielded audio cable is recommended. If a remote volume control with a mute button is preferred, an RDL RLC10KM may be connected directly to the ST-VCA3. The regulated +10 Vdc control **OUT** voltage provides sufficient current to power an RLC10KM. The **CTRL** terminal does not load the external control voltage, therefore a single 10 kΩ control may control multiple ST-VCA3s simultaneously. The **LEVEL** LED varies in intensity corresponding to the VCA control voltage. This provides a relative indication at the module of the level setting on the remote control.

The ST-VCA3 is used in applications requiring smooth audio level control from a remote control panel, potentiometer or dc voltage (0 to 10 V). Installation in series with the audio input of a power amplifier allows remote control of that amplifier's level. For installations where it is preferred to keep the audio localized in a rack or common equipment location, audio level control may be extended outside the rack using an ST-VCA3. Many installations benefit from avoiding long-term wear from audio running through a potentiometer. An ST-VCA3 with external dc control provides virtual immunity from scratchy audio. Audio/video system control units often provide 0 to 10 Vdc control outputs that can directly adjust audio levels using an ST-VCA3. The ST-VCA3 is primarily intended for line-level attenuation although a high quality utility microphone preamplifier is included in the module. If remote control of a microphone preamplifier is desired, such as a wall mounted level control for a microphone jack, the ST-VCA3 may serve as a remote controlled microphone preamplifier.

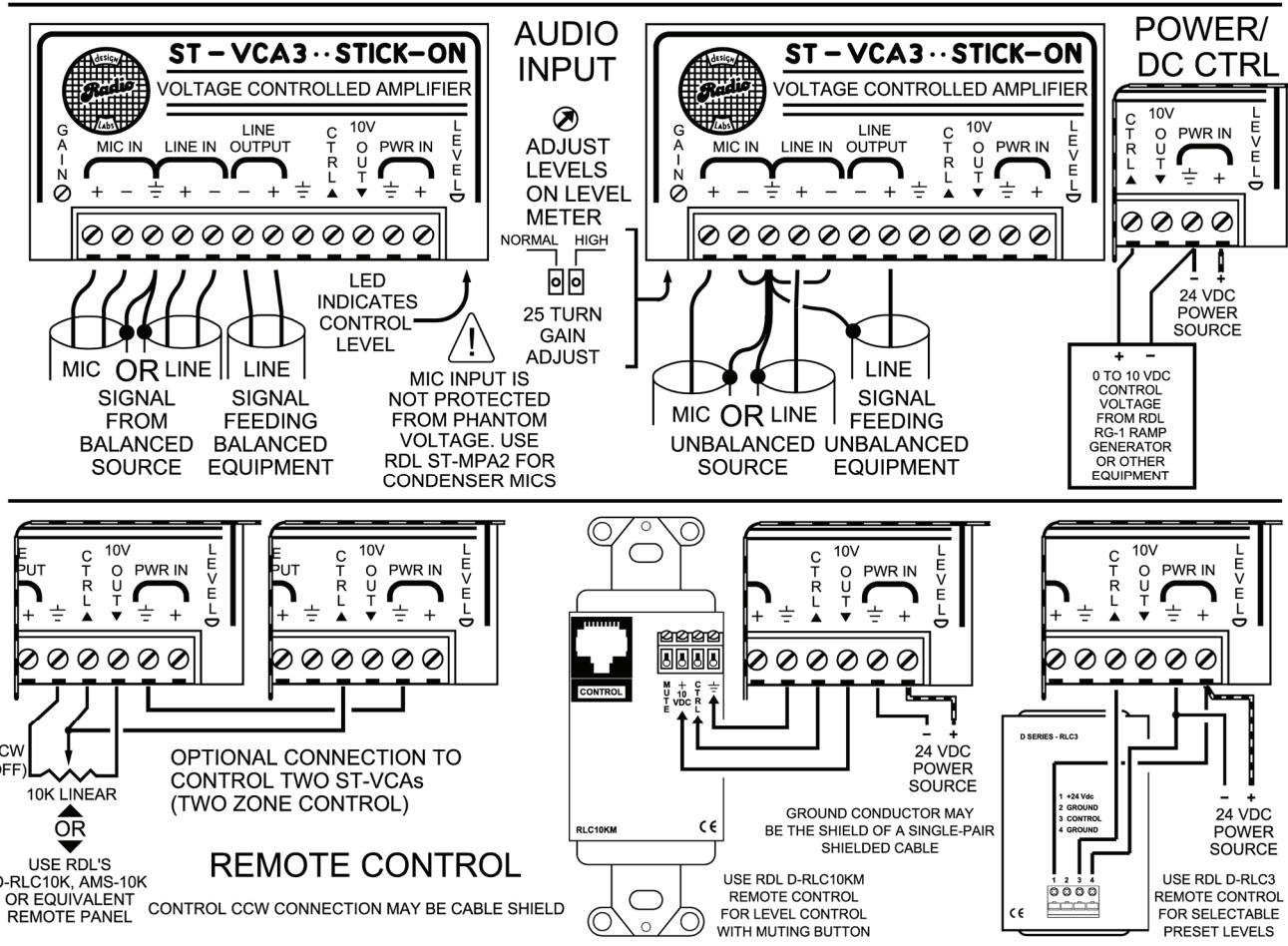
The ST-VCA3 operates from a 24 Vdc ground-referenced power supply.

Wherever it is desirable to keep audio signal sources at an equipment location while providing compact, high quality remote level control, the ST-VCA3 is the ideal choice. Use an ST-VCA3 and its associated remote control individually or combine them with other RDL products as part of a complete audio/video system.

STICK-ON[®] SERIES
Model ST-VCA3
Voltage Controlled Amplifier

Installation/Operation

EN55103-1 E1-E5; EN55103-2 E1-E4
 Typical Performance reflects product at publication time
 exclusive of EMC data, if any, supplied with product.
 Specifications are subject to change without notice.



TYPICAL PERFORMANCE

Inputs (2):
 Line:
 Input Levels (for +4 dBu output):
 Line:
 Output Signal (normal rated):
 Headroom:
 THD+N:

Frequency Response:

Line:

Noise:

CMRR:

Control Input:

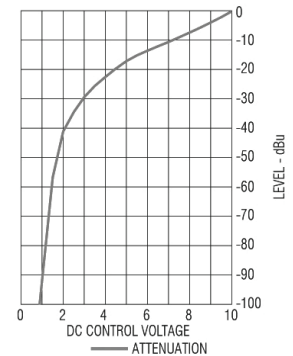
Attenuation Range:

Ambient Operating Environment:

Power Requirement:

Dimensions: Height:

Mic: 200 Ω balanced; 5 kΩ unbalanced
 30 kΩ bal. bridging or unbalanced
 Line: <0.025% (unity gain); 0.025% typical at 15 dB attenuation
 Mic: -44 dBu to -60 dBu (150 Ω source)
 -18 dBu (-20 dBV) to +4 dBu
 +4 dBu, 150 Ω balanced
 18 dB
 Mic: < 0.05%;
 Line: <0.025% (unity gain); 0.025% typical at 15 dB attenuation
 Mic: 30 Hz to 20 kHz (±1 dB)
 10 Hz to 20 kHz (±0.1 dB)
 Mic: < -71 dB below +4 dBu output (150 Ω source; 50 dB gain)
 Line: <-78 dB below +4 dBu output (maximum gain)
 Mic: > 60 dB; Line: > 60 dB, (50 Hz to 120 Hz)
 0 to 10 Vdc or 0 to 10 kΩ Linear
 0 to 90 dB (>90 dB at 0 Vdc control)
 0° C to 55° C
 GROUND-REFERENCED, 24 Vdc @ 50 mA
 0.7 in. (1.7 cm), Width: 3 in. (7.6 cm), Depth: 1.6 in. (3.9 cm)



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SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

STICK-ON[®] SERIES

Model ST-SH2

Stereophonic Headphone Amp

- Stereophonic Headphone Amplifier
- Provision for External Stereo Level Control
- Balanced or Unbalanced Inputs
- Bridge a Line and Feed Headsets
- Amplifier To Drive High or Low Impedance Headsets



The ST-SH2 is part of the group of versatile STICK-ON products from Radio Design Labs. STICK-ONS feature the advanced circuitry for which RDL products are known, combined with unequalled versatility in mounting possibilities. The durable adhesives provided with the ST-SH2 permit permanent or removable mounting. Numerous available mounting accessories, brackets, rack-mount and tabletop chassis are optionally available to facilitate any system design. STICK-ONS are designed, built and rated for continuous duty in professional AV systems.

FUNCTIONAL DESCRIPTION: The ST-SH2 is a dual channel headphone amplifier with balanced/unbalanced left (L) and right (R) inputs. Each input is designed to accept an input signal with operating levels between -20 dBV and +8 dBu. A multi-turn gain potentiometer is provided for setting the maximum gain independently for each input channel. Terminals are provided for optional connection of an external audio taper 10 k Ω potentiometer. Three terminals are used for an external stereo control: Left-channel pot wiper (**LEVEL ADJUST: L**), Right-channel pot wiper (**LEVEL ADJUST: R**), and Ground (common to both pot channels). The output amplifiers can each drive either high or low impedance headphones, producing up to 250 mW into 8 Ω or 20 Vp-p into 2 k Ω .

Module operation is from a 24 Vdc ground-referenced power supply.

TYPICAL APPLICATION: The ST-SH2 is used in applications requiring headphones of any impedance to be driven from consumer or professional audio sources. For fixed level installations not requiring user volume control, the ST-SH2 is wired to the audio source and to a headphone jack. Frequently, it is desirable to mount a volume knob by the headphone jack. The **LEVEL ADJUST** terminals (L) and (R) may be wired to the respective wipers of a stereo 10 k Ω potentiometer to provide volume adjustment. It is recommended that the ST-SH2 be located less than 39 in. (1m) from the jack and volume control.

The exceptional low noise (better than 100 dB below operating level), low distortion, audio clarity and excellent crosstalk performance makes this module ideally suited to a wide variety of demanding audio applications. Use this module in conjunction with other RDL modules as part of a high quality, flexible audio/video system.

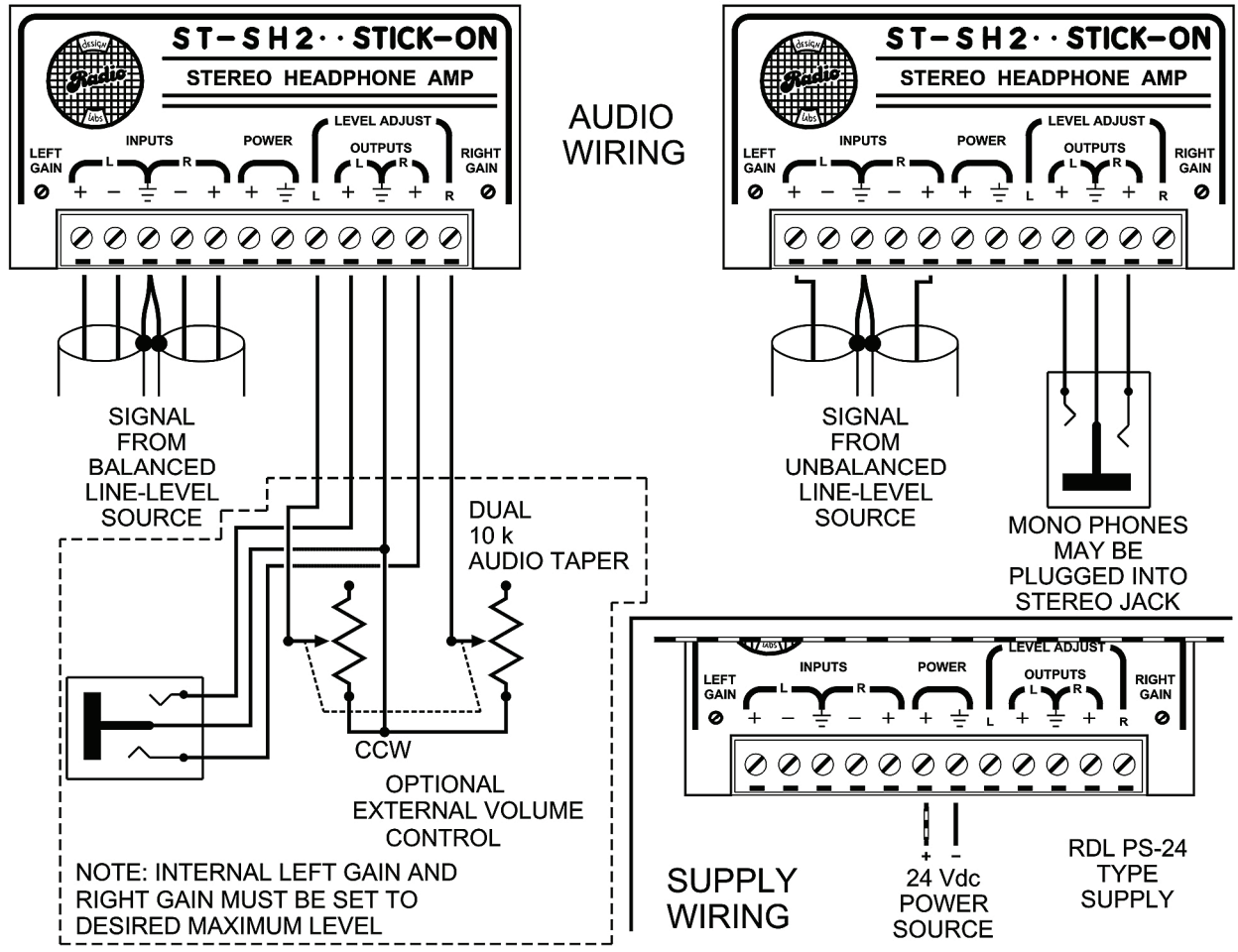
STICK-ON[®] SERIES

Model ST-SH2 Stereophonic Headphone Amp

Installation/Operation



EN55103-1 E1-E5; EN55103-2 E1-E4
Typical Performance reflects product at publication time
exclusive of EMC data, if any, supplied with product.
Specifications are subject to change without notice.



TYPICAL PERFORMANCE

Input:	10 k Ω balanced or unbalanced bridging
Input Signal:	-20 dBu (-22 dBV) to +6 dBu (for normal output level: +4 dBu, 100 Ω) -10 dBu to +16 dBu (for 250 mW, 8 Ω output)
Output Load Impedance:	8 Ω to 5 k Ω (Drives low or high impedance headphones)
Output Signal (normal rated):	+4 dBu into 100 Ω
Output Signal (maximum):	250 mW into 8 Ω , 20 Vp-p into 2 k Ω
THD+N:	< 0.005% (0.0015% typical @ 1 kHz)
Frequency Response:	20 Hz to 40 kHz (\pm 0.25 dB)
Noise:	< -100 dB below normal operating level
Total Dynamic Range:	> 115 dB
Gain:	Adjustable from -2 to 24 dB
CMRR:	> 50 dB at 100 Hz
Crosstalk:	< -65 dB (10 Hz – 20 kHz); < -80 dB @ 1 kHz
Ambient Operating Environment:	0° C to 55° C
Power Requirement:	GROUND-REFERENCED, 24 Vdc @ 200 mA

Radio Design Labs Technical Support Centers

U.S.A. (800) 933-1780, (928) 778-3554; Fax: (928) 778-3506

Europe [NH Amsterdam] (+31) 20-6238 983; Fax: (+31) 20-6225-287

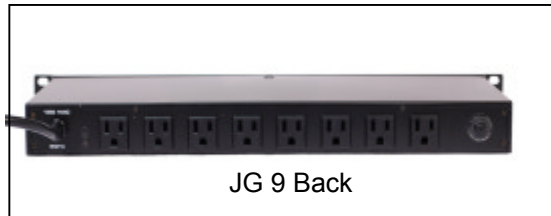


JG 9

STANDARD POWER DISTRIBUTION CENTER

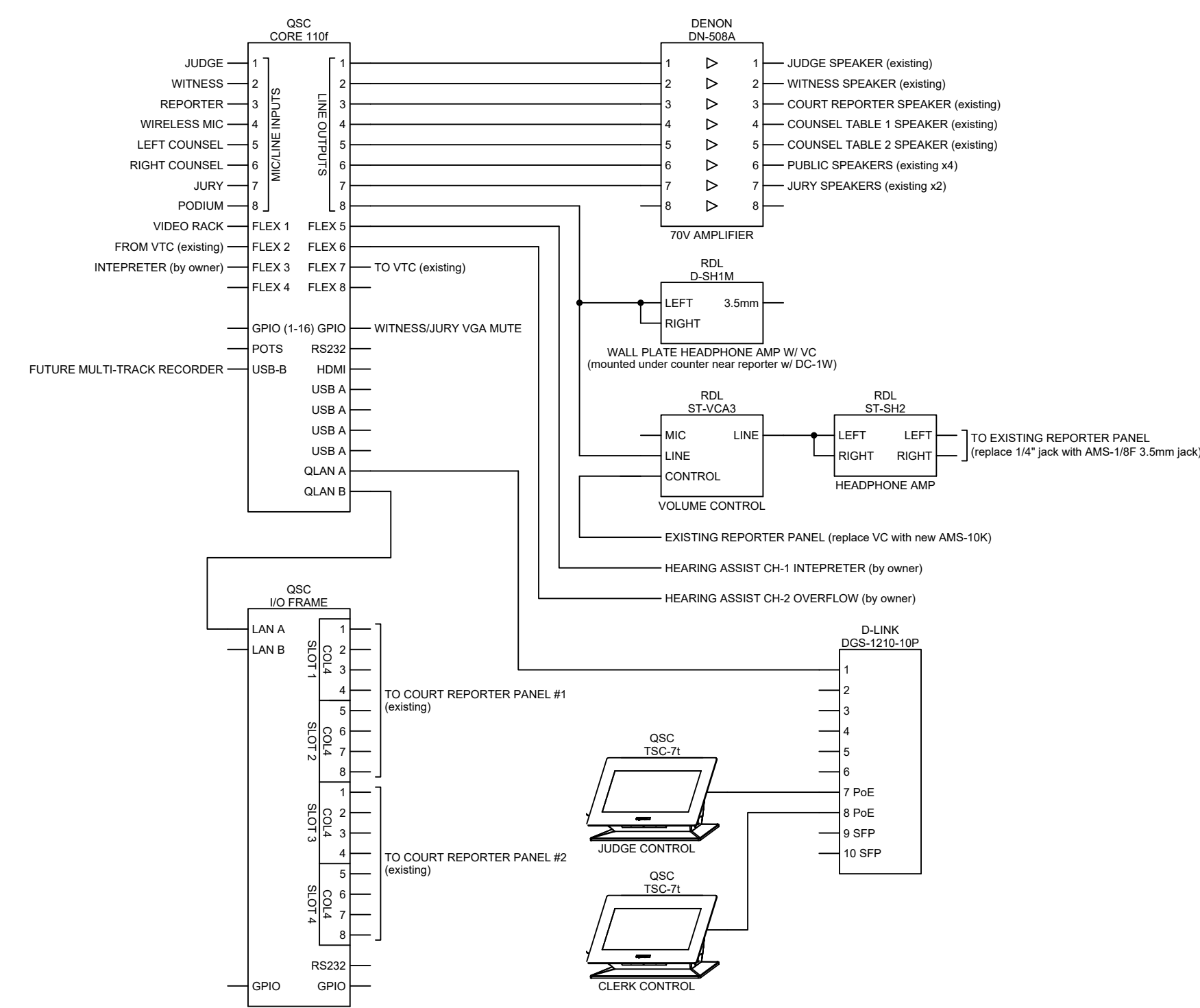
The JG 9 power module includes one unswitched AC power outlet on the front and eight switched outlets on the back of the chassis. The rear outlets are rotated 90 degrees to better accommodate "wall wart" power supplies. The JG 9 provides a full 1800 watts of power. Discreet components inside provide a base level of equipment protection against AC power spikes without contaminating the ground line. JG8LED is designed, produced and priced to provide quality and convenience within the limits of an everyday budget.

THREE YEAR WARRANTY Every JG Series product is manufactured to exact Juice Goose specifications and subjected to a complete functional test before shipping. And every JG Series product is backed by a 3 year warranty.



SPECIFICATIONS

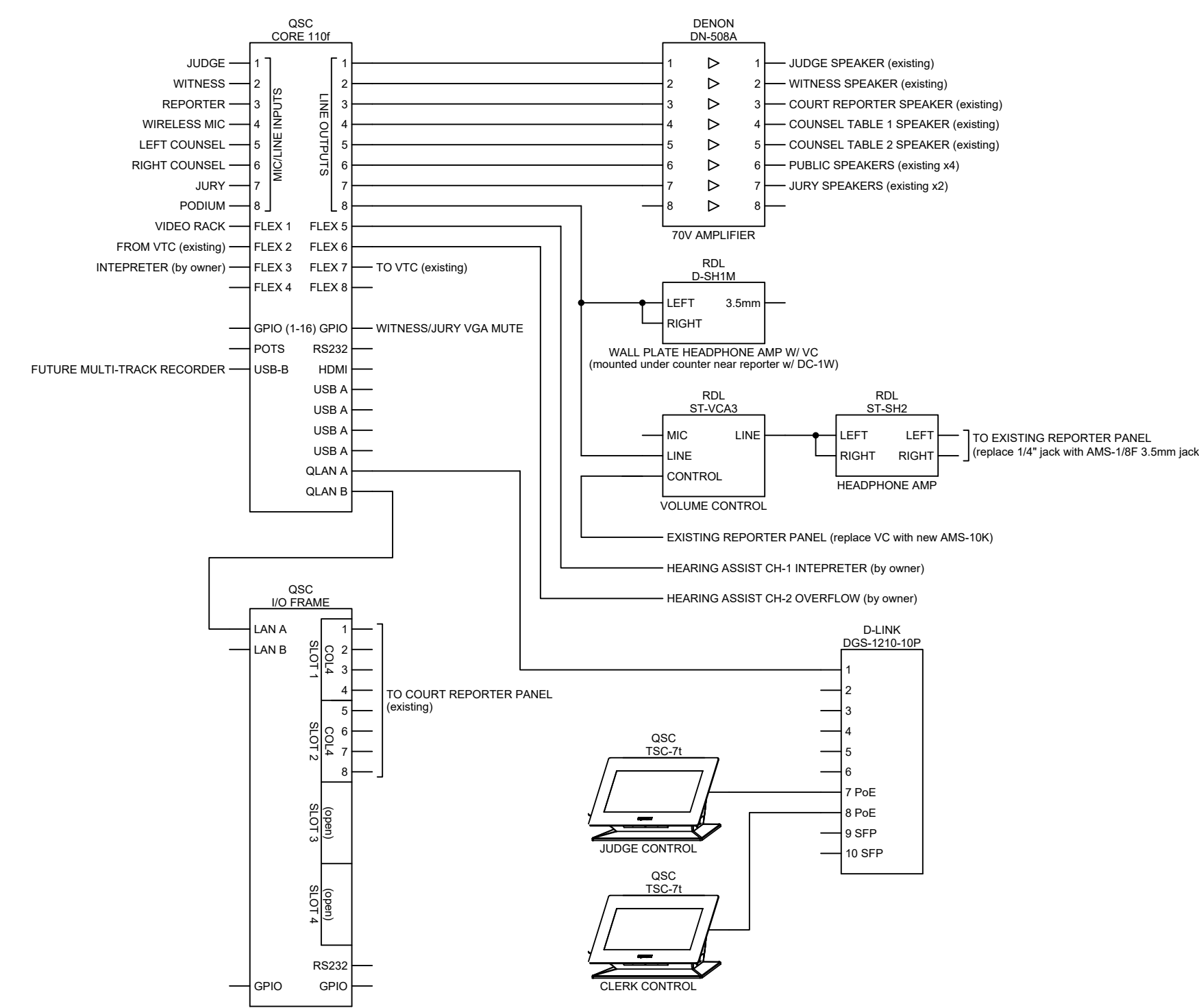
INPUT VOLTAGE	120vac, 60 Hz
TECHNICAL CURRENT CAPACITY	12 Amps (80% of circuit breaker rating)
CURRENT OVERLOAD PROTECTION	Circuit Breaker, 15 Amp Thermal on Rear
DIMENSIONS (inches)	1.75H x 19W x 7D
WEIGHT	5.0 lbs
CHASSIS	Steel
POWER CORD	6 Foot 16/3 SJT
POWER OUTPUT CONNECTORS	Nine NEMA 5-15, 15 Amp Rating
AC LINE FILTRATION	Line & Neutral
VOLTAGE SPIKE PROTECTION	Line & Neutral



A COUNTY COURTRROOMS 21, 22, 23, 24, 25, 26
S-1 SCALE: NTS

MID BRK-8 RACK (existing)
POWER
CORE 110f DSP
I/O FRAME
1-SP VENT PANEL (or existing wrls)
PoE SWITCH
(open w/ 2-sp security cover)
8-CH AMPLIFIER

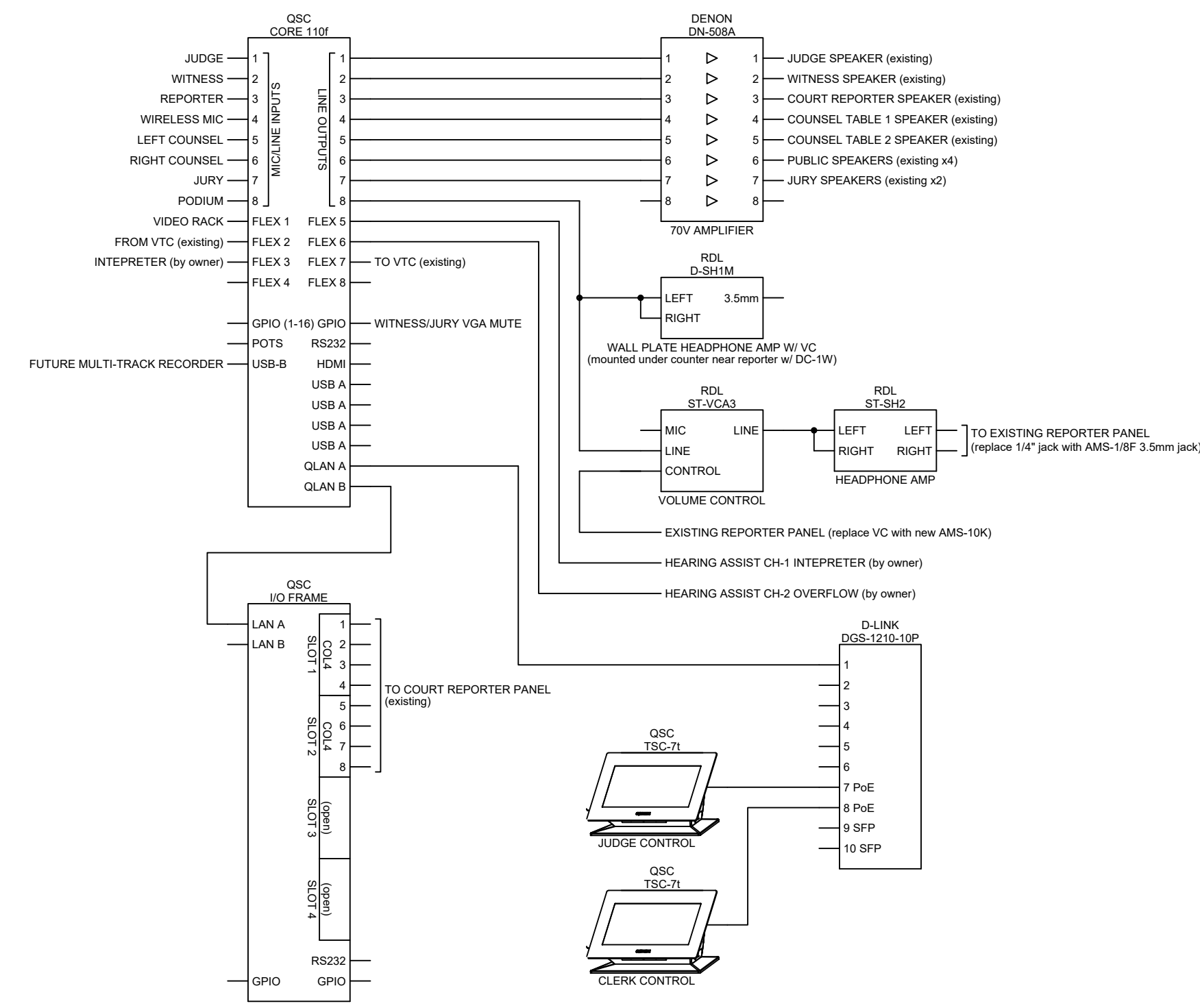
B RACK LAYOUT
S-1 SCALE: 1/4" = 1"



C DISTRICT COURTROOMS 30, 31
S-1 SCALE: NTS

MID BRK-8 RACK (existing)
POWER
CORE 110f DSP
I/O FRAME
1-SP VENT PANEL (or existing wrls)
PoE SWITCH
(open w/ 2-sp security cover)
8-CH AMPLIFIER

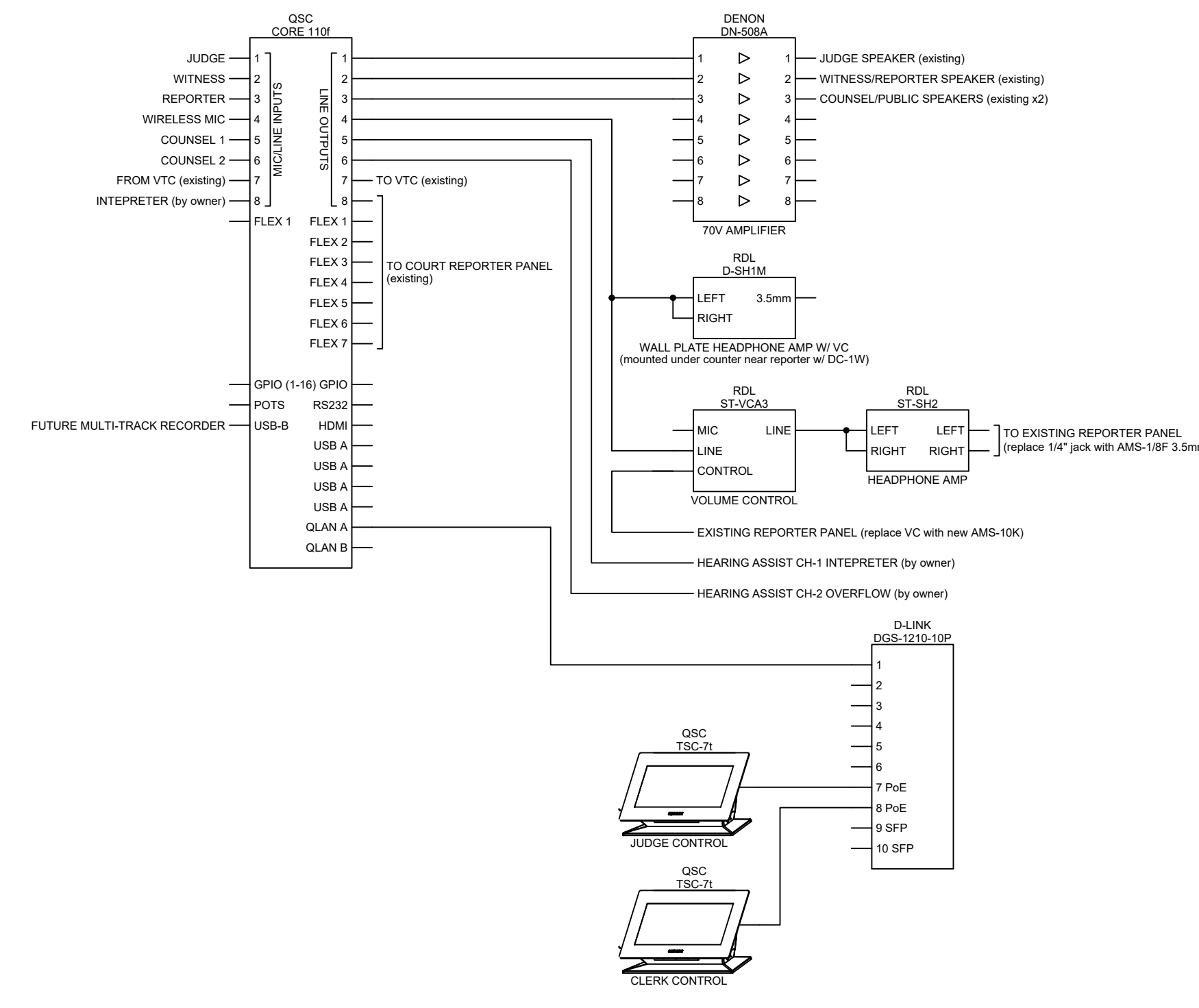
D RACK LAYOUT
S-1 SCALE: 1/4" = 1"



E DISTRICT COURTROOMS 32, 33, 34, 35, 36, 37
S-1 SCALE: NTS

MID BRK-8 RACK (existing)
POWER
CORE 110f DSP
I/O FRAME
1-SP VENT PANEL (or existing wrls)
PoE SWITCH
(open w/ 2-sp security cover)
8-CH AMPLIFIER

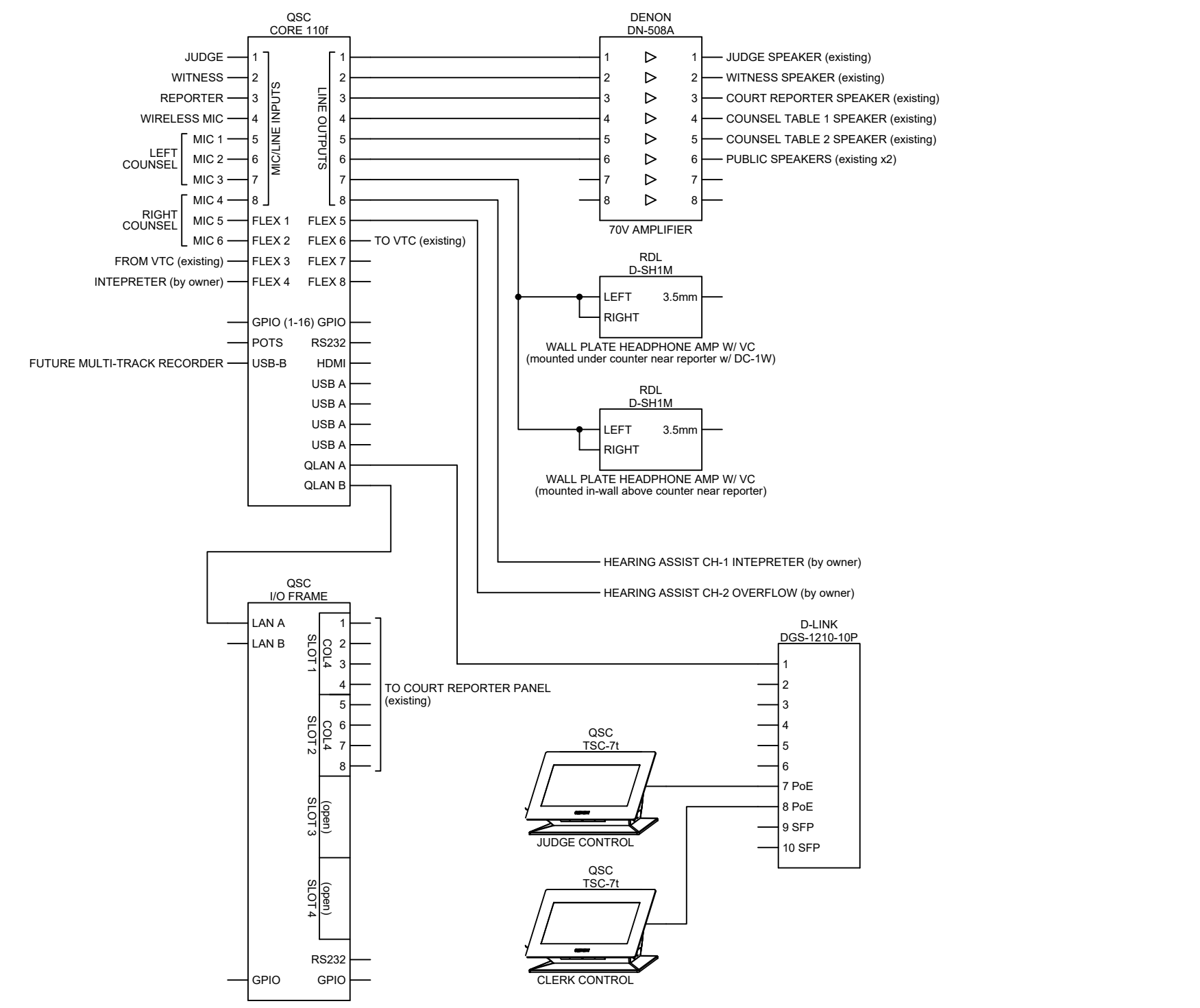
F RACK LAYOUT
S-1 SCALE: 1/4" = 1"



G DISTRICT COURTROOM 38
S-1 SCALE: NTS

MSL CUSTOM RACK RAIL IN EXISTING CABINET
POWER
2-SP VENT PANEL
CORE 110f DSP
1-SP VENT PANEL
1-SP VENT PANEL (or existing wrls)
PoE SWITCH
(open w/ 2-sp security cover)
8-CH AMPLIFIER

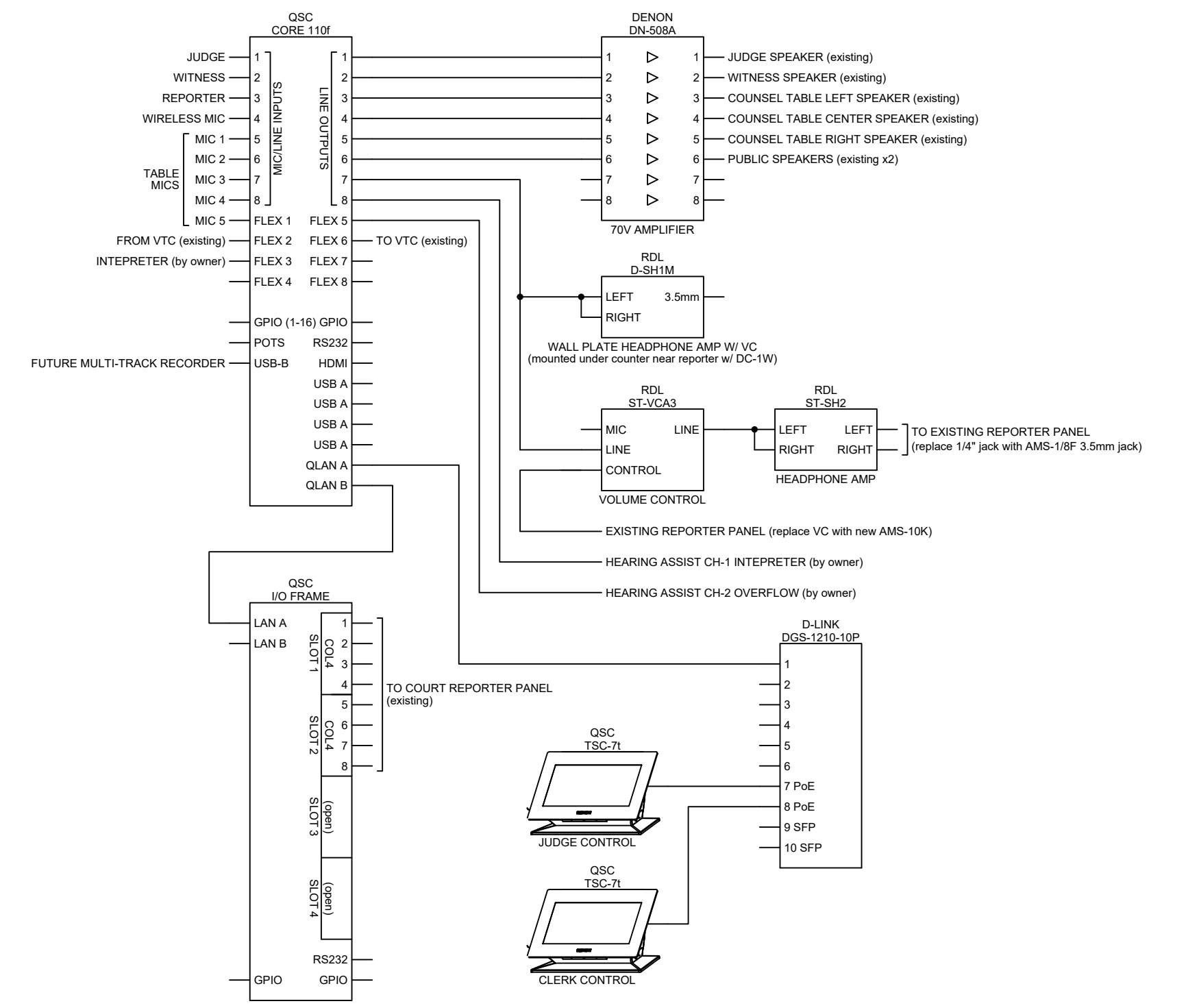
H RACK LAYOUT
S-1 SCALE: 1/4" = 1"



I JUVENILE COURTROOM 40
S-1 SCALE: NTS

MSL CUSTOM RACK RAIL IN EXISTING CABINET
POWER
2-SP VENT PANEL
CORE 110f DSP
I/O FRAME
1-SP VENT PANEL (or existing wrls)
PoE SWITCH
(open w/ 2-sp security cover)
8-CH AMPLIFIER

J RACK LAYOUT
S-1 SCALE: 1/4" = 1"



K JUVENILE COURTROOMS 41, 42, 43
S-1 SCALE: NTS

MID BRK-8 RACK (existing)
POWER
CORE 110f DSP
I/O FRAME
1-SP VENT PANEL (or existing wrls)
PoE SWITCH
(open w/ 2-sp security cover)
8-CH AMPLIFIER

L RACK LAYOUT
S-1 SCALE: 1/4" = 1"

REV. DATE DESCRIPTION



LINCOLN AND LANCASTER COUNTY
COURTROOM AUDIO SYSTEM UPGRADES
SYSTEM DIAGRAMS AND RACK LAYOUTS

Project No.
0999
Drawn By
MATT D.
Date
4-28-17
Scale
NTS

S-1



4318 S. 50th Street
 Omaha, NE 68117
 Phone: (402) 731-6268
 Fax: (402) 731-9766
 Toll Free: (800) 981-9521
 www.mwsound.com

2322 O. Street
 Lincoln, NE 68510
 Phone: (402) 474-4918
 Fax: (402) 474-5874
 Toll Free: (800) 617-4298
 info@mwsound.com

Client City of Lincoln/Lancaster County - Hall of Justice	Contact Name Jared Gavin	Date May 3, 2017
Address 575 S. 10th Street	Phone 402-441-7291	Fax
City, State, Zip Lincoln, NE 68508	Email jgavin@lancaster.ne.gov	
Submitted By Matt Davis	Customer No. LANCOU	Proposal No. 1413-PHASE 1

Equipment List - Hall of Justice Audio Replacement - Bid No. 17-130 - Phase 1

Phase 1 - Sound Reinforcement System - Juvenile Courtroom 41

<u>Qty.</u>	<u>Manufacturer</u>	<u>Description</u>
1	QSC Core 100f	Q-SYS Flex-Channel Digital Signal Processor with 128x128 Network Audio Channels, 16x16 USB Audio Channels, 24 Channels of Total Analog Audio, 8 Configurable Flex Channels, 16x16 GPIO Logic Ports, 16 Channels of Routable AEC Processing, 4 VoIP Lines, 1 POTS Line, 3-Year Warranty
1	QSC I/O Frame	Q-SYS Integrated System Platform with 4 Card Slots
2	QSC COL4	Q-SYS 4-Channel Line Output Card
2	QSC TSC-7t	Q-SYS 7" Tabletop Touchscreen Controller with 800x480 Resolution
1	D-Link DGS-1210-10P	8-Port 10/100/1000 Mbps PoE, 2 SFP QSC Q-Lan Qualified Audio/Video Switch
1	Denon DN-508A	8-Channel Power Amplifier with 55W/Channel at 4-Ohm, 70V, or 100V
2	Middle Atlantic S-2	2RU Perforated Security Cover (amplifier, LAN switch)
1	Radio Design Labs D-SH1M	Stereo Headphone Amplifier with 3.5mm Jack and VC on Decora Wall Plate
2	Radio Design Labs PS-24AS	24VDC, 500mA Power Supply
1	Radio Design Labs DC-1W	Under-Desk Chassis for D-SH1M
1	Radio Design Labs CP-1	1-Gang Decora Trim Plate
1	Radio Design Labs ST-VCA3	Voltage Controlled Amplifier
1	Radio Design Labs ST-SH2	Stereophonic Headphone Amplifier
1	Radio Design Labs AMS-10K	10K Linear Taper Pot and Knob Assembly
1	Radio Design Labs AMS-1/8F	3.5mm Stereo Mini Jack
1	MSL Custom	1-Gang In-Wall Rough-In
1	Middle Atlantic EVT1	1RU Vented Rack Panel
1	Juice Goose JG 9	15-Amp, 9-Outlet Power Conditioner with Surge Protection
1 Lot	Rapco Duracat 5E	Flexible Jacket Cat-5E Cabling for Touchpanels
1 Lot	West-Penn 25224	Plenum-Rated 18/2 Stranded Loudspeaker Cabling
1 Lot	West-Penn 454	22/2 Shielded Mic/Line Cabling
		<ul style="list-style-type: none"> • Installation Hardware, Cabling, Connectors • Professional Installation by NICET and/or CTS Certified Personnel • System Alignment, Tuning, and End-User Training • System Documentation Including CAD Drawings

Notes:

- Includes 7" touchpanel control for both Judge and Clerk. Each can be programmed independently.
- Includes 2 headphone stations for Court Reporter - 1 below counter and 1 replacing components in existing panel.
- Equipment will be installed in existing 8RU laminate equipment rack.
- Existing loudspeakers, microphones, wall plates, and cabling will be reused.
- See MSL Drawing S-1 for complete system diagram.

Phase 1 - Sound Reinforcement System - Juvenile Courtroom 43

<u>Qty.</u>	<u>Manufacturer</u>	<u>Description</u>
1	QSC Core 100f	Q-SYS Flex-Channel Digital Signal Processor with 128x128 Network Audio Channels, 16x16 USB Audio Channels, 24 Channels of Total Analog Audio, 8 Configurable Flex Channels, 16x16 GPIO Logic Ports, 16 Channels of Routable AEC Processing, 4 VoIP Lines, 1 POTS Line, 3-Year Warranty
1	QSC I/O Frame	Q-SYS Integrated System Platform with 4 Card Slots
2	QSC COL4	Q-SYS 4-Channel Line Output Card
2	QSC TSC-7t	Q-SYS 7" Tabletop Touchscreen Controller with 800x480 Resolution
1	D-Link DGS-1210-10P	8-Port 10/100/1000 Mbps PoE, 2 SFP QSC Q-Lan Qualified Audio/Video Switch
1	Denon DN-508A	8-Channel Power Amplifier with 55W/Channel at 4-Ohm, 70V, or 100V
2	Middle Atlantic S-2	2RU Perforated Security Cover (amplifier, LAN switch)
1	Radio Design Labs D-SH1M	Stereo Headphone Amplifier with 3.5mm Jack and VC on Decora Wall Plate
2	Radio Design Labs PS-24AS	24VDC, 500mA Power Supply
1	Radio Design Labs DC-1W	Under-Desk Chassis for D-SH1M
1	Radio Design Labs CP-1	1-Gang Decora Trim Plate
1	Radio Design Labs ST-VCA3	Voltage Controlled Amplifier
1	Radio Design Labs ST-SH2	Stereophonic Headphone Amplifier
1	Radio Design Labs AMS-10K	10K Linear Taper Pot and Knob Assembly
1	Radio Design Labs AMS-1/8F	3.5mm Stereo Mini Jack
1	MSL Custom	1-Gang In-Wall Rough-In
1	Middle Atlantic EVT1	1RU Vented Rack Panel
1	Juice Goose JG 9	15-Amp, 9-Outlet Power Conditioner with Surge Protection
1 Lot	Rapco Duracat 5E	Flexible Jacket Cat-5E Cabling for Touchpanels
1 Lot	West-Penn 25224	Plenum-Rated 18/2 Stranded Loudspeaker Cabling
1 Lot	West-Penn 454	22/2 Shielded Mic/Line Cabling
		<ul style="list-style-type: none"> • Installation Hardware, Cabling, Connectors • Professional Installation by NICET and/or CTS Certified Personnel • System Alignment, Tuning, and End-User Training • System Documentation Including CAD Drawings

Notes:

- Includes 7" touchpanel control for both Judge and Clerk. Each can be programmed independently.
- Includes 2 headphone stations for Court Reporter - 1 below counter and 1 replacing components in existing panel.
- Equipment will be installed in existing 8RU laminate equipment rack.
- Existing loudspeakers, microphones, wall plates, and cabling will be reused.
- See MSL Drawing S-1 for complete system diagram.

Phase 1 - Sound Reinforcement System - District Courtroom 31

<u>Qty.</u>	<u>Manufacturer</u>	<u>Description</u>
1	QSC Core 100f	Q-SYS Flex-Channel Digital Signal Processor with 128x128 Network Audio Channels, 16x16 USB Audio Channels, 24 Channels of Total Analog Audio, 8 Configurable Flex Channels, 16x16 GPIO Logic Ports, 16 Channels of Routable AEC Processing, 4 VoIP Lines, 1 POTS Line, 3-Year Warranty
1	QSC I/O Frame	Q-SYS Integrated System Platform with 4 Card Slots
2	QSC COL4	Q-SYS 4-Channel Line Output Card
2	QSC TSC-7t	Q-SYS 7" Tabletop Touchscreen Controller with 800x480 Resolution
1	D-Link DGS-1210-10P	8-Port 10/100/1000 Mbps PoE, 2 SFP QSC Q-Lan Qualified Audio/Video Switch
1	Denon DN-508A	8-Channel Power Amplifier with 55W/Channel at 4-Ohm, 70V, or 100V
2	Middle Atlantic S-2	2RU Perforated Security Cover (amplifier, LAN switch)
1	Radio Design Labs D-SH1M	Stereo Headphone Amplifier with 3.5mm Jack and VC on Decora Wall Plate
2	Radio Design Labs PS-24AS	24VDC, 500mA Power Supply
1	Radio Design Labs DC-1W	Under-Desk Chassis for D-SH1M
1	Radio Design Labs CP-1	1-Gang Decora Trim Plate
1	Radio Design Labs ST-VCA3	Voltage Controlled Amplifier
1	Radio Design Labs ST-SH2	Stereophonic Headphone Amplifier
1	Radio Design Labs AMS-10K	10K Linear Taper Pot and Knob Assembly
1	Radio Design Labs AMS-1/8F	3.5mm Stereo Mini Jack
1	MSL Custom	1-Gang In-Wall Rough-In
1	Middle Atlantic EVT1	1RU Vented Rack Panel
1	Juice Goose JG 9	15-Amp, 9-Outlet Power Conditioner with Surge Protection
1 Lot	Rapco Duracat 5E	Flexible Jacket Cat-5E Cabling for Touchpanels
1 Lot	West-Penn 25224	Plenum-Rated 18/2 Stranded Loudspeaker Cabling
1 Lot	West-Penn 454	22/2 Shielded Mic/Line Cabling
		<ul style="list-style-type: none"> • Installation Hardware, Cabling, Connectors • Professional Installation by NICET and/or CTS Certified Personnel • System Alignment, Tuning, and End-User Training • System Documentation Including CAD Drawings

Notes:

- Includes 7" touchpanel control for both Judge and Clerk. Each can be programmed independently.
- Includes 2 headphone stations for Court Reporter - 1 below counter and 1 replacing components in existing panel.
- Equipment will be installed in existing 8RU laminate equipment rack.
- Existing loudspeakers, microphones, wall plates, and cabling will be reused.
- See MSL Drawing S-1 for complete system diagram.

Phase 1 - Sound Reinforcement System - District Courtroom 32

<u>Qty.</u>	<u>Manufacturer</u>	<u>Description</u>
1	QSC Core 100f	Q-SYS Flex-Channel Digital Signal Processor with 128x128 Network Audio Channels, 16x16 USB Audio Channels, 24 Channels of Total Analog Audio, 8 Configurable Flex Channels, 16x16 GPIO Logic Ports, 16 Channels of Routable AEC Processing, 4 VoIP Lines, 1 POTS Line, 3-Year Warranty
1	QSC I/O Frame	Q-SYS Integrated System Platform with 4 Card Slots
2	QSC COL4	Q-SYS 4-Channel Line Output Card
2	QSC TSC-7t	Q-SYS 7" Tabletop Touchscreen Controller with 800x480 Resolution
1	D-Link DGS-1210-10P	8-Port 10/100/1000 Mbps PoE, 2 SFP QSC Q-Lan Qualified Audio/Video Switch
1	Denon DN-508A	8-Channel Power Amplifier with 55W/Channel at 4-Ohm, 70V, or 100V
2	Middle Atlantic S-2	2RU Perforated Security Cover (amplifier, LAN switch)
1	Radio Design Labs D-SH1M	Stereo Headphone Amplifier with 3.5mm Jack and VC on Decora Wall Plate
2	Radio Design Labs PS-24AS	24VDC, 500mA Power Supply
1	Radio Design Labs DC-1W	Under-Desk Chassis for D-SH1M
1	Radio Design Labs CP-1	1-Gang Decora Trim Plate
1	Radio Design Labs ST-VCA3	Voltage Controlled Amplifier
1	Radio Design Labs ST-SH2	Stereophonic Headphone Amplifier
1	Radio Design Labs AMS-10K	10K Linear Taper Pot and Knob Assembly
1	Radio Design Labs AMS-1/8F	3.5mm Stereo Mini Jack
1	MSL Custom	1-Gang In-Wall Rough-In
1	Middle Atlantic EVT1	1RU Vented Rack Panel
1	Juice Goose JG 9	15-Amp, 9-Outlet Power Conditioner with Surge Protection
1 Lot	Rapco Duracat 5E	Flexible Jacket Cat-5E Cabling for Touchpanels
1 Lot	West-Penn 25224	Plenum-Rated 18/2 Stranded Loudspeaker Cabling
1 Lot	West-Penn 454	22/2 Shielded Mic/Line Cabling
		<ul style="list-style-type: none"> • Installation Hardware, Cabling, Connectors • Professional Installation by NICET and/or CTS Certified Personnel • System Alignment, Tuning, and End-User Training • System Documentation Including CAD Drawings

Notes:

- Includes 7" touchpanel control for both Judge and Clerk. Each can be programmed independently.
- Includes 2 headphone stations for Court Reporter - 1 below counter and 1 replacing components in existing panel.
- Equipment will be installed in existing 8RU laminate equipment rack.
- Existing loudspeakers, microphones, wall plates, and cabling will be reused.
- See MSL Drawing S-1 for complete system diagram.

Phase 1 - Sound Reinforcement System - District Courtroom 33

<u>Qty.</u>	<u>Manufacturer</u>	<u>Description</u>
1	QSC Core 100f	Q-SYS Flex-Channel Digital Signal Processor with 128x128 Network Audio Channels, 16x16 USB Audio Channels, 24 Channels of Total Analog Audio, 8 Configurable Flex Channels, 16x16 GPIO Logic Ports, 16 Channels of Routable AEC Processing, 4 VoIP Lines, 1 POTS Line, 3-Year Warranty
1	QSC I/O Frame	Q-SYS Integrated System Platform with 4 Card Slots
2	QSC COL4	Q-SYS 4-Channel Line Output Card
2	QSC TSC-7t	Q-SYS 7" Tabletop Touchscreen Controller with 800x480 Resolution
1	D-Link DGS-1210-10P	8-Port 10/100/1000 Mbps PoE, 2 SFP QSC Q-Lan Qualified Audio/Video Switch
1	Denon DN-508A	8-Channel Power Amplifier with 55W/Channel at 4-Ohm, 70V, or 100V
2	Middle Atlantic S-2	2RU Perforated Security Cover (amplifier, LAN switch)
1	Radio Design Labs D-SH1M	Stereo Headphone Amplifier with 3.5mm Jack and VC on Decora Wall Plate
2	Radio Design Labs PS-24AS	24VDC, 500mA Power Supply
1	Radio Design Labs DC-1W	Under-Desk Chassis for D-SH1M
1	Radio Design Labs CP-1	1-Gang Decora Trim Plate
1	Radio Design Labs ST-VCA3	Voltage Controlled Amplifier
1	Radio Design Labs ST-SH2	Stereophonic Headphone Amplifier
1	Radio Design Labs AMS-10K	10K Linear Taper Pot and Knob Assembly
1	Radio Design Labs AMS-1/8F	3.5mm Stereo Mini Jack
1	MSL Custom	1-Gang In-Wall Rough-In
1	Middle Atlantic EVT1	1RU Vented Rack Panel
1	Juice Goose JG 9	15-Amp, 9-Outlet Power Conditioner with Surge Protection
1 Lot	Rapco Duracat 5E	Flexible Jacket Cat-5E Cabling for Touchpanels
1 Lot	West-Penn 25224	Plenum-Rated 18/2 Stranded Loudspeaker Cabling
1 Lot	West-Penn 454	22/2 Shielded Mic/Line Cabling
		<ul style="list-style-type: none"> • Installation Hardware, Cabling, Connectors • Professional Installation by NICET and/or CTS Certified Personnel • System Alignment, Tuning, and End-User Training • System Documentation Including CAD Drawings

Notes:

- Includes 7" touchpanel control for both Judge and Clerk. Each can be programmed independently.
- Includes 2 headphone stations for Court Reporter - 1 below counter and 1 replacing components in existing panel.
- Equipment will be installed in existing 8RU laminate equipment rack.
- Existing loudspeakers, microphones, wall plates, and cabling will be reused.
- See MSL Drawing S-1 for complete system diagram.

Phase 1 - Sound Reinforcement System - District Courtroom 34

<u>Qty.</u>	<u>Manufacturer</u>	<u>Description</u>
1	QSC Core 100f	Q-SYS Flex-Channel Digital Signal Processor with 128x128 Network Audio Channels, 16x16 USB Audio Channels, 24 Channels of Total Analog Audio, 8 Configurable Flex Channels, 16x16 GPIO Logic Ports, 16 Channels of Routable AEC Processing, 4 VoIP Lines, 1 POTS Line, 3-Year Warranty
1	QSC I/O Frame	Q-SYS Integrated System Platform with 4 Card Slots
2	QSC COL4	Q-SYS 4-Channel Line Output Card
2	QSC TSC-7t	Q-SYS 7" Tabletop Touchscreen Controller with 800x480 Resolution
1	D-Link DGS-1210-10P	8-Port 10/100/1000 Mbps PoE, 2 SFP QSC Q-Lan Qualified Audio/Video Switch
1	Denon DN-508A	8-Channel Power Amplifier with 55W/Channel at 4-Ohm, 70V, or 100V
2	Middle Atlantic S-2	2RU Perforated Security Cover (amplifier, LAN switch)
1	Radio Design Labs D-SH1M	Stereo Headphone Amplifier with 3.5mm Jack and VC on Decora Wall Plate
2	Radio Design Labs PS-24AS	24VDC, 500mA Power Supply
1	Radio Design Labs DC-1W	Under-Desk Chassis for D-SH1M
1	Radio Design Labs CP-1	1-Gang Decora Trim Plate
1	Radio Design Labs ST-VCA3	Voltage Controlled Amplifier
1	Radio Design Labs ST-SH2	Stereophonic Headphone Amplifier
1	Radio Design Labs AMS-10K	10K Linear Taper Pot and Knob Assembly
1	Radio Design Labs AMS-1/8F	3.5mm Stereo Mini Jack
1	MSL Custom	1-Gang In-Wall Rough-In
1	Middle Atlantic EVT1	1RU Vented Rack Panel
1	Juice Goose JG 9	15-Amp, 9-Outlet Power Conditioner with Surge Protection
1 Lot	Rapco Duracat 5E	Flexible Jacket Cat-5E Cabling for Touchpanels
1 Lot	West-Penn 25224	Plenum-Rated 18/2 Stranded Loudspeaker Cabling
1 Lot	West-Penn 454	22/2 Shielded Mic/Line Cabling
		<ul style="list-style-type: none"> • Installation Hardware, Cabling, Connectors • Professional Installation by NICET and/or CTS Certified Personnel • System Alignment, Tuning, and End-User Training • System Documentation Including CAD Drawings

Notes:

- Includes 7" touchpanel control for both Judge and Clerk. Each can be programmed independently.
- Includes 2 headphone stations for Court Reporter - 1 below counter and 1 replacing components in existing panel.
- Equipment will be installed in existing 8RU laminate equipment rack.
- Existing loudspeakers, microphones, wall plates, and cabling will be reused.
- See MSL Drawing S-1 for complete system diagram.

Phase 1 - Sound Reinforcement System - County Courtroom 21

<u>Qty.</u>	<u>Manufacturer</u>	<u>Description</u>
1	Shure ULXS14/85-J1	UHF Lapel Wireless Microphone System (554-590Mhz)
1	Rapco N1M1-25	25' XLR Microphone Cable
1	QSC Core 100f	Q-SYS Flex-Channel Digital Signal Processor with 128x128 Network Audio Channels, 16x16 USB Audio Channels, 24 Channels of Total Analog Audio, 8 Configurable Flex Channels, 16x16 GPIO Logic Ports, 16 Channels of Routable AEC Processing, 4 VoIP Lines, 1 POTS Line, 3-Year Warranty
1	QSC I/O Frame	Q-SYS Integrated System Platform with 4 Card Slots
4	QSC COL4	Q-SYS 4-Channel Line Output Card
2	QSC TSC-7t	Q-SYS 7" Tabletop Touchscreen Controller with 800x480 Resolution
1	D-Link DGS-1210-10P	8-Port 10/100/1000 Mbps PoE, 2 SFP QSC Q-Lan Qualified Audio/Video Switch
1	Denon DN-508A	8-Channel Power Amplifier with 55W/Channel at 4-Ohm, 70V, or 100V
2	Middle Atlantic S-2	2RU Perforated Security Cover (amplifier, LAN switch)
2	Radio Design Labs D-SH1M	Stereo Headphone Amplifier with 3.5mm Jack and VC on Decora Wall Plate
4	Radio Design Labs PS-24AS	24VDC, 500mA Power Supply
2	Radio Design Labs DC-1W	Under-Desk Chassis for D-SH1M
2	Radio Design Labs CP-1	1-Gang Decora Trim Plate
2	Radio Design Labs ST-VCA3	Voltage Controlled Amplifier
2	Radio Design Labs ST-SH2	Stereophonic Headphone Amplifier
2	Radio Design Labs AMS-10K	10K Linear Taper Pot and Knob Assembly
2	Radio Design Labs AMS-1/8F	3.5mm Stereo Mini Jack
1	Middle Atlantic EVT1	1RU Vented Rack Panel
1	Juice Goose JG 9	15-Amp, 9-Outlet Power Conditioner with Surge Protection
1 Lot	Rapco Duracat 5E	Flexible Jacket Cat-5E Cabling for Touchpanels
1 Lot	West-Penn 25224	Plenum-Rated 18/2 Stranded Loudspeaker Cabling
1 Lot	West-Penn 454	22/2 Shielded Mic/Line Cabling
	•	Installation Hardware, Cabling, Connectors
	•	Professional Installation by NICET and/or CTS Certified Personnel
	•	System Alignment, Tuning, and End-User Training
	•	System Documentation Including CAD Drawings

Notes:

- Includes portable UHF wireless lapel microphone system and 25' patch cable.
- Includes 7" touchpanel control for both Judge and Clerk. Each can be programmed independently.
- Includes 2 headphone stations for both Court Reporters - 1 below counter and 1 replacing components in existing panels.
- Equipment will be installed in existing 8RU laminate equipment rack.
- Existing loudspeakers, microphones, wall plates, and cabling will be reused.
- See MSL Drawing S-1 for complete system diagram.

Phase 1 - Sound Reinforcement System - County Courtroom 22

<u>Qty.</u>	<u>Manufacturer</u>	<u>Description</u>
1	QSC Core 100f	Q-SYS Flex-Channel Digital Signal Processor with 128x128 Network Audio Channels, 16x16 USB Audio Channels, 24 Channels of Total Analog Audio, 8 Configurable Flex Channels, 16x16 GPIO Logic Ports, 16 Channels of Routable AEC Processing, 4 VoIP Lines, 1 POTS Line, 3-Year Warranty
1	QSC I/O Frame	Q-SYS Integrated System Platform with 4 Card Slots
4	QSC COL4	Q-SYS 4-Channel Line Output Card
2	QSC TSC-7t	Q-SYS 7" Tabletop Touchscreen Controller with 800x480 Resolution
1	D-Link DGS-1210-10P	8-Port 10/100/1000 Mbps PoE, 2 SFP QSC Q-Lan Qualified Audio/Video Switch
1	Denon DN-508A	8-Channel Power Amplifier with 55W/Channel at 4-Ohm, 70V, or 100V
2	Middle Atlantic S-2	2RU Perforated Security Cover (amplifier, LAN switch)
2	Radio Design Labs D-SH1M	Stereo Headphone Amplifier with 3.5mm Jack and VC on Decora Wall Plate
4	Radio Design Labs PS-24AS	24VDC, 500mA Power Supply
2	Radio Design Labs DC-1W	Under-Desk Chassis for D-SH1M
2	Radio Design Labs CP-1	1-Gang Decora Trim Plate
2	Radio Design Labs ST-VCA3	Voltage Controlled Amplifier
2	Radio Design Labs ST-SH2	Stereophonic Headphone Amplifier
2	Radio Design Labs AMS-10K	10K Linear Taper Pot and Knob Assembly
2	Radio Design Labs AMS-1/8F	3.5mm Stereo Mini Jack
1	Middle Atlantic EVT1	1RU Vented Rack Panel
1	Juice Goose JG 9	15-Amp, 9-Outlet Power Conditioner with Surge Protection
1 Lot	Rapco Duracat 5E	Flexible Jacket Cat-5E Cabling for Touchpanels
1 Lot	West-Penn 25224	Plenum-Rated 18/2 Stranded Loudspeaker Cabling
1 Lot	West-Penn 454	22/2 Shielded Mic/Line Cabling
	•	Installation Hardware, Cabling, Connectors
	•	Professional Installation by NICET and/or CTS Certified Personnel
	•	System Alignment, Tuning, and End-User Training
	•	System Documentation Including CAD Drawings

Notes:

- Includes 7" touchpanel control for both Judge and Clerk. Each can be programmed independently.
- Includes 2 headphone stations for both Court Reporters - 1 below counter and 1 replacing components in existing panels.
- Equipment will be installed in existing 8RU laminate equipment rack.
- Existing loudspeakers, microphones, wall plates, and cabling will be reused.
- See MSL Drawing S-1 for complete system diagram.

Phase 1 - Sound Reinforcement System - County Courtroom 23

<u>Qty.</u>	<u>Manufacturer</u>	<u>Description</u>
1	QSC Core 100f	Q-SYS Flex-Channel Digital Signal Processor with 128x128 Network Audio Channels, 16x16 USB Audio Channels, 24 Channels of Total Analog Audio, 8 Configurable Flex Channels, 16x16 GPIO Logic Ports, 16 Channels of Routable AEC Processing, 4 VoIP Lines, 1 POTS Line, 3-Year Warranty
1	QSC I/O Frame	Q-SYS Integrated System Platform with 4 Card Slots
4	QSC COL4	Q-SYS 4-Channel Line Output Card
2	QSC TSC-7t	Q-SYS 7" Tabletop Touchscreen Controller with 800x480 Resolution
1	D-Link DGS-1210-10P	8-Port 10/100/1000 Mbps PoE, 2 SFP QSC Q-Lan Qualified Audio/Video Switch
1	Denon DN-508A	8-Channel Power Amplifier with 55W/Channel at 4-Ohm, 70V, or 100V
2	Middle Atlantic S-2	2RU Perforated Security Cover (amplifier, LAN switch)
2	Radio Design Labs D-SH1M	Stereo Headphone Amplifier with 3.5mm Jack and VC on Decora Wall Plate
4	Radio Design Labs PS-24AS	24VDC, 500mA Power Supply
2	Radio Design Labs DC-1W	Under-Desk Chassis for D-SH1M
2	Radio Design Labs CP-1	1-Gang Decora Trim Plate
2	Radio Design Labs ST-VCA3	Voltage Controlled Amplifier
2	Radio Design Labs ST-SH2	Stereophonic Headphone Amplifier
2	Radio Design Labs AMS-10K	10K Linear Taper Pot and Knob Assembly
2	Radio Design Labs AMS-1/8F	3.5mm Stereo Mini Jack
1	Middle Atlantic EVT1	1RU Vented Rack Panel
1	Juice Goose JG 9	15-Amp, 9-Outlet Power Conditioner with Surge Protection
1 Lot	Rapco Duracat 5E	Flexible Jacket Cat-5E Cabling for Touchpanels
1 Lot	West-Penn 25224	Plenum-Rated 18/2 Stranded Loudspeaker Cabling
1 Lot	West-Penn 454	22/2 Shielded Mic/Line Cabling
		<ul style="list-style-type: none"> • Installation Hardware, Cabling, Connectors • Professional Installation by NICET and/or CTS Certified Personnel • System Alignment, Tuning, and End-User Training • System Documentation Including CAD Drawings

Notes:

- Includes 7" touchpanel control for both Judge and Clerk. Each can be programmed independently.
- Includes 2 headphone stations for both Court Reporters - 1 below counter and 1 replacing components in existing panels.
- Equipment will be installed in existing 8RU laminate equipment rack.
- Existing loudspeakers, microphones, wall plates, and cabling will be reused.
- See MSL Drawing S-1 for complete system diagram.

When considering audio, video or lighting solutions, look for these logos to be assured that you are discussing your problems with a qualified professional certified to know what they are talking about. Midwest Sound & Lighting employs certified personnel to insure your satisfaction.





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Client City of Lincoln/Lancaster County - Hall of Justice	Contact Name Jared Gavin	Date May 3, 2017
Address 575 S. 10th Street	Phone 402-441-7291	Fax
City, State, Zip Lincoln, NE 68508	Email jgavin@lancaster.ne.gov	
Submitted By Matt Davis	Customer No. LANCOU	Proposal No. 1413-PHASE 2

Equipment List - Hall of Justice Audio Replacement - Bid No. 17-130 - Phase 2

Phase 2 - Sound Reinforcement System - Juvenile Courtroom 40

<u>Qty.</u>	<u>Manufacturer</u>	<u>Description</u>
1	QSC Core 100f	Q-SYS Flex-Channel Digital Signal Processor with 128x128 Network Audio Channels, 16x16 USB Audio Channels, 24 Channels of Total Analog Audio, 8 Configurable Flex Channels, 16x16 GPIO Logic Ports, 16 Channels of Routable AEC Processing, 4 VoIP Lines, 1 POTS Line, 3-Year Warranty
1	QSC I/O Frame	Q-SYS Integrated System Platform with 4 Card Slots
2	QSC COL4	Q-SYS 4-Channel Line Output Card
2	QSC TSC-7t	Q-SYS 7" Tabletop Touchscreen Controller with 800x480 Resolution
1	D-Link DGS-1210-10P	8-Port 10/100/1000 Mbps PoE, 2 SFP QSC Q-Lan Qualified Audio/Video Switch
1	Denon DN-508A	8-Channel Power Amplifier with 55W/Channel at 4-Ohm, 70V, or 100V
2	Middle Atlantic S-2	2RU Perforated Security Cover (amplifier, LAN switch)
2	Radio Design Labs D-SH1M	Stereo Headphone Amplifier with 3.5mm Jack and VC on Decora Wall Plate
2	Radio Design Labs PS-24AS	24VDC, 500mA Power Supply
1	Radio Design Labs DC-1W	Under-Desk Chassis for D-SH1M
2	Radio Design Labs CP-1	1-Gang Decora Trim Plate
1	MSL Custom	1-Gang In-Wall Rough-In
1	Middle Atlantic RRF10	10RU Rack Rail Kit
1	Middle Atlantic HPQ	3/8" Long 10/32 Rack Screws
1	Middle Atlantic EVT1	1RU Vented Rack Panel
1	Middle Atlantic EVT2	2RU Vented Rack Panel
1	Juice Goose JG 9	15-Amp, 9-Outlet Power Conditioner with Surge Protection
1 Lot	Rapco Duracat 5E	Flexible Jacket Cat-5E Cabling for Touchpanels
1 Lot	West-Penn 25224	Plenum-Rated 18/2 Stranded Loudspeaker Cabling
1 Lot	West-Penn 454	22/2 Shielded Mic/Line Cabling
	<ul style="list-style-type: none"> • Installation Hardware, Cabling, Connectors • Professional Installation by NICET and/or CTS Certified Personnel • System Alignment, Tuning, and End-User Training • System Documentation Including CAD Drawings 	

Notes:

- Includes 7" touchpanel control for both Judge and Clerk. Each can be programmed independently.
- Includes 2 headphone stations for Court Reporter - 1 above counter and 1 below counter.
- Equipment will be installed in existing cabinet using new rack rail kit.
- Existing loudspeakers, microphones, wall plates, and cabling will be reused.
- See MSL Drawing S-1 for complete system diagram.

Phase 2 - Sound Reinforcement System - Juvenile Courtroom 42

<u>Qty.</u>	<u>Manufacturer</u>	<u>Description</u>
1	QSC Core 100f	Q-SYS Flex-Channel Digital Signal Processor with 128x128 Network Audio Channels, 16x16 USB Audio Channels, 24 Channels of Total Analog Audio, 8 Configurable Flex Channels, 16x16 GPIO Logic Ports, 16 Channels of Routable AEC Processing, 4 VoIP Lines, 1 POTS Line, 3-Year Warranty
1	QSC I/O Frame	Q-SYS Integrated System Platform with 4 Card Slots
2	QSC COL4	Q-SYS 4-Channel Line Output Card
2	QSC TSC-7t	Q-SYS 7" Tabletop Touchscreen Controller with 800x480 Resolution
1	D-Link DGS-1210-10P	8-Port 10/100/1000 Mbps PoE, 2 SFP QSC Q-Lan Qualified Audio/Video Switch
1	Denon DN-508A	8-Channel Power Amplifier with 55W/Channel at 4-Ohm, 70V, or 100V
2	Middle Atlantic S-2	2RU Perforated Security Cover (amplifier, LAN switch)
1	Radio Design Labs D-SH1M	Stereo Headphone Amplifier with 3.5mm Jack and VC on Decora Wall Plate
2	Radio Design Labs PS-24AS	24VDC, 500mA Power Supply
1	Radio Design Labs DC-1W	Under-Desk Chassis for D-SH1M
1	Radio Design Labs CP-1	1-Gang Decora Trim Plate
1	Radio Design Labs ST-VCA3	Voltage Controlled Amplifier
1	Radio Design Labs ST-SH2	Stereophonic Headphone Amplifier
1	Radio Design Labs AMS-10K	10K Linear Taper Pot and Knob Assembly
1	Radio Design Labs AMS-1/8F	3.5mm Stereo Mini Jack
1	MSL Custom	1-Gang In-Wall Rough-In
1	Middle Atlantic EVT1	1RU Vented Rack Panel
1	Juice Goose JG 9	15-Amp, 9-Outlet Power Conditioner with Surge Protection
1 Lot	Rapco Duracat 5E	Flexible Jacket Cat-5E Cabling for Touchpanels
1 Lot	West-Penn 25224	Plenum-Rated 18/2 Stranded Loudspeaker Cabling
1 Lot	West-Penn 454	22/2 Shielded Mic/Line Cabling
		<ul style="list-style-type: none"> • Installation Hardware, Cabling, Connectors • Professional Installation by NICET and/or CTS Certified Personnel • System Alignment, Tuning, and End-User Training • System Documentation Including CAD Drawings

Notes:

- Includes 7" touchpanel control for both Judge and Clerk. Each can be programmed independently.
- Includes 2 headphone stations for Court Reporter - 1 below counter and 1 replacing components in existing panel.
- Equipment will be installed in existing 8RU laminate equipment rack.
- Existing loudspeakers, microphones, wall plates, and cabling will be reused.
- See MSL Drawing S-1 for complete system diagram.

Phase 2 - Sound Reinforcement System - District Courtroom 30

<u>Qty.</u>	<u>Manufacturer</u>	<u>Description</u>
1	QSC Core 100f	Q-SYS Flex-Channel Digital Signal Processor with 128x128 Network Audio Channels, 16x16 USB Audio Channels, 24 Channels of Total Analog Audio, 8 Configurable Flex Channels, 16x16 GPIO Logic Ports, 16 Channels of Routable AEC Processing, 4 VoIP Lines, 1 POTS Line, 3-Year Warranty
1	QSC I/O Frame	Q-SYS Integrated System Platform with 4 Card Slots
2	QSC COL4	Q-SYS 4-Channel Line Output Card
2	QSC TSC-7t	Q-SYS 7" Tabletop Touchscreen Controller with 800x480 Resolution
1	D-Link DGS-1210-10P	8-Port 10/100/1000 Mbps PoE, 2 SFP QSC Q-Lan Qualified Audio/Video Switch
1	Denon DN-508A	8-Channel Power Amplifier with 55W/Channel at 4-Ohm, 70V, or 100V
2	Middle Atlantic S-2	2RU Perforated Security Cover (amplifier, LAN switch)
1	Radio Design Labs D-SH1M	Stereo Headphone Amplifier with 3.5mm Jack and VC on Decora Wall Plate
2	Radio Design Labs PS-24AS	24VDC, 500mA Power Supply
1	Radio Design Labs DC-1W	Under-Desk Chassis for D-SH1M
1	Radio Design Labs CP-1	1-Gang Decora Trim Plate
1	Radio Design Labs ST-VCA3	Voltage Controlled Amplifier
1	Radio Design Labs ST-SH2	Stereophonic Headphone Amplifier
1	Radio Design Labs AMS-10K	10K Linear Taper Pot and Knob Assembly
1	Radio Design Labs AMS-1/8F	3.5mm Stereo Mini Jack
1	MSL Custom	1-Gang In-Wall Rough-In
1	Middle Atlantic EVT1	1RU Vented Rack Panel
1	Juice Goose JG 9	15-Amp, 9-Outlet Power Conditioner with Surge Protection
1 Lot	Rapco Duracat 5E	Flexible Jacket Cat-5E Cabling for Touchpanels
1 Lot	West-Penn 25224	Plenum-Rated 18/2 Stranded Loudspeaker Cabling
1 Lot	West-Penn 454	22/2 Shielded Mic/Line Cabling
		<ul style="list-style-type: none"> • Installation Hardware, Cabling, Connectors • Professional Installation by NICET and/or CTS Certified Personnel • System Alignment, Tuning, and End-User Training • System Documentation Including CAD Drawings

Notes:

- Includes 7" touchpanel control for both Judge and Clerk. Each can be programmed independently.
- Includes 2 headphone stations for Court Reporter - 1 below counter and 1 replacing components in existing panel.
- Equipment will be installed in existing 8RU laminate equipment rack.
- Existing loudspeakers, microphones, wall plates, and cabling will be reused.
- See MSL Drawing S-1 for complete system diagram.

Phase 2 - Sound Reinforcement System - District Courtroom 35

<u>Qty.</u>	<u>Manufacturer</u>	<u>Description</u>
1	QSC Core 100f	Q-SYS Flex-Channel Digital Signal Processor with 128x128 Network Audio Channels, 16x16 USB Audio Channels, 24 Channels of Total Analog Audio, 8 Configurable Flex Channels, 16x16 GPIO Logic Ports, 16 Channels of Routable AEC Processing, 4 VoIP Lines, 1 POTS Line, 3-Year Warranty
1	QSC I/O Frame	Q-SYS Integrated System Platform with 4 Card Slots
2	QSC COL4	Q-SYS 4-Channel Line Output Card
2	QSC TSC-7t	Q-SYS 7" Tabletop Touchscreen Controller with 800x480 Resolution
1	D-Link DGS-1210-10P	8-Port 10/100/1000 Mbps PoE, 2 SFP QSC Q-Lan Qualified Audio/Video Switch
1	Denon DN-508A	8-Channel Power Amplifier with 55W/Channel at 4-Ohm, 70V, or 100V
2	Middle Atlantic S-2	2RU Perforated Security Cover (amplifier, LAN switch)
1	Radio Design Labs D-SH1M	Stereo Headphone Amplifier with 3.5mm Jack and VC on Decora Wall Plate
2	Radio Design Labs PS-24AS	24VDC, 500mA Power Supply
1	Radio Design Labs DC-1W	Under-Desk Chassis for D-SH1M
1	Radio Design Labs CP-1	1-Gang Decora Trim Plate
1	Radio Design Labs ST-VCA3	Voltage Controlled Amplifier
1	Radio Design Labs ST-SH2	Stereophonic Headphone Amplifier
1	Radio Design Labs AMS-10K	10K Linear Taper Pot and Knob Assembly
1	Radio Design Labs AMS-1/8F	3.5mm Stereo Mini Jack
1	MSL Custom	1-Gang In-Wall Rough-In
1	Middle Atlantic EVT1	1RU Vented Rack Panel
1	Juice Goose JG 9	15-Amp, 9-Outlet Power Conditioner with Surge Protection
1 Lot	Rapco Duracat 5E	Flexible Jacket Cat-5E Cabling for Touchpanels
1 Lot	West-Penn 25224	Plenum-Rated 18/2 Stranded Loudspeaker Cabling
1 Lot	West-Penn 454	22/2 Shielded Mic/Line Cabling
		<ul style="list-style-type: none"> • Installation Hardware, Cabling, Connectors • Professional Installation by NICET and/or CTS Certified Personnel • System Alignment, Tuning, and End-User Training • System Documentation Including CAD Drawings

Notes:

- Includes 7" touchpanel control for both Judge and Clerk. Each can be programmed independently.
- Includes 2 headphone stations for Court Reporter - 1 below counter and 1 replacing components in existing panel.
- Equipment will be installed in existing 8RU laminate equipment rack.
- Existing loudspeakers, microphones, wall plates, and cabling will be reused.
- See MSL Drawing S-1 for complete system diagram.

Phase 2 - Sound Reinforcement System - District Courtroom 36

<u>Qty.</u>	<u>Manufacturer</u>	<u>Description</u>
1	QSC Core 100f	Q-SYS Flex-Channel Digital Signal Processor with 128x128 Network Audio Channels, 16x16 USB Audio Channels, 24 Channels of Total Analog Audio, 8 Configurable Flex Channels, 16x16 GPIO Logic Ports, 16 Channels of Routable AEC Processing, 4 VoIP Lines, 1 POTS Line, 3-Year Warranty
1	QSC I/O Frame	Q-SYS Integrated System Platform with 4 Card Slots
2	QSC COL4	Q-SYS 4-Channel Line Output Card
2	QSC TSC-7t	Q-SYS 7" Tabletop Touchscreen Controller with 800x480 Resolution
1	D-Link DGS-1210-10P	8-Port 10/100/1000 Mbps PoE, 2 SFP QSC Q-Lan Qualified Audio/Video Switch
1	Denon DN-508A	8-Channel Power Amplifier with 55W/Channel at 4-Ohm, 70V, or 100V
2	Middle Atlantic S-2	2RU Perforated Security Cover (amplifier, LAN switch)
1	Radio Design Labs D-SH1M	Stereo Headphone Amplifier with 3.5mm Jack and VC on Decora Wall Plate
2	Radio Design Labs PS-24AS	24VDC, 500mA Power Supply
1	Radio Design Labs DC-1W	Under-Desk Chassis for D-SH1M
1	Radio Design Labs CP-1	1-Gang Decora Trim Plate
1	Radio Design Labs ST-VCA3	Voltage Controlled Amplifier
1	Radio Design Labs ST-SH2	Stereophonic Headphone Amplifier
1	Radio Design Labs AMS-10K	10K Linear Taper Pot and Knob Assembly
1	Radio Design Labs AMS-1/8F	3.5mm Stereo Mini Jack
1	MSL Custom	1-Gang In-Wall Rough-In
1	Middle Atlantic EVT1	1RU Vented Rack Panel
1	Juice Goose JG 9	15-Amp, 9-Outlet Power Conditioner with Surge Protection
1 Lot	Rapco Duracat 5E	Flexible Jacket Cat-5E Cabling for Touchpanels
1 Lot	West-Penn 25224	Plenum-Rated 18/2 Stranded Loudspeaker Cabling
1 Lot	West-Penn 454	22/2 Shielded Mic/Line Cabling
		<ul style="list-style-type: none"> • Installation Hardware, Cabling, Connectors • Professional Installation by NICET and/or CTS Certified Personnel • System Alignment, Tuning, and End-User Training • System Documentation Including CAD Drawings

Notes:

- Includes 7" touchpanel control for both Judge and Clerk. Each can be programmed independently.
- Includes 2 headphone stations for Court Reporter - 1 below counter and 1 replacing components in existing panel.
- Equipment will be installed in existing 8RU laminate equipment rack.
- Existing loudspeakers, microphones, wall plates, and cabling will be reused.
- See MSL Drawing S-1 for complete system diagram.

Phase 2 - Sound Reinforcement System - District Courtroom 37

<u>Qty.</u>	<u>Manufacturer</u>	<u>Description</u>
1	QSC Core 100f	Q-SYS Flex-Channel Digital Signal Processor with 128x128 Network Audio Channels, 16x16 USB Audio Channels, 24 Channels of Total Analog Audio, 8 Configurable Flex Channels, 16x16 GPIO Logic Ports, 16 Channels of Routable AEC Processing, 4 VoIP Lines, 1 POTS Line, 3-Year Warranty
1	QSC I/O Frame	Q-SYS Integrated System Platform with 4 Card Slots
2	QSC COL4	Q-SYS 4-Channel Line Output Card
2	QSC TSC-7t	Q-SYS 7" Tabletop Touchscreen Controller with 800x480 Resolution
1	D-Link DGS-1210-10P	8-Port 10/100/1000 Mbps PoE, 2 SFP QSC Q-Lan Qualified Audio/Video Switch
1	Denon DN-508A	8-Channel Power Amplifier with 55W/Channel at 4-Ohm, 70V, or 100V
2	Middle Atlantic S-2	2RU Perforated Security Cover (amplifier, LAN switch)
1	Radio Design Labs D-SH1M	Stereo Headphone Amplifier with 3.5mm Jack and VC on Decora Wall Plate
2	Radio Design Labs PS-24AS	24VDC, 500mA Power Supply
1	Radio Design Labs DC-1W	Under-Desk Chassis for D-SH1M
1	Radio Design Labs CP-1	1-Gang Decora Trim Plate
1	Radio Design Labs ST-VCA3	Voltage Controlled Amplifier
1	Radio Design Labs ST-SH2	Stereophonic Headphone Amplifier
1	Radio Design Labs AMS-10K	10K Linear Taper Pot and Knob Assembly
1	Radio Design Labs AMS-1/8F	3.5mm Stereo Mini Jack
1	MSL Custom	1-Gang In-Wall Rough-In
1	Middle Atlantic EVT1	1RU Vented Rack Panel
1	Juice Goose JG 9	15-Amp, 9-Outlet Power Conditioner with Surge Protection
1 Lot	Rapco Duracat 5E	Flexible Jacket Cat-5E Cabling for Touchpanels
1 Lot	West-Penn 25224	Plenum-Rated 18/2 Stranded Loudspeaker Cabling
1 Lot	West-Penn 454	22/2 Shielded Mic/Line Cabling
		<ul style="list-style-type: none"> • Installation Hardware, Cabling, Connectors • Professional Installation by NICET and/or CTS Certified Personnel • System Alignment, Tuning, and End-User Training • System Documentation Including CAD Drawings

Notes:

- Includes 7" touchpanel control for both Judge and Clerk. Each can be programmed independently.
- Includes 2 headphone stations for Court Reporter - 1 below counter and 1 replacing components in existing panel.
- Equipment will be installed in existing 8RU laminate equipment rack.
- Existing loudspeakers, microphones, wall plates, and cabling will be reused.
- See MSL Drawing S-1 for complete system diagram.

Phase 2 - Sound Reinforcement System - District Courtroom 38

<u>Qty.</u>	<u>Manufacturer</u>	<u>Description</u>
1	QSC Core 100f	Q-SYS Flex-Channel Digital Signal Processor with 128x128 Network Audio Channels, 16x16 USB Audio Channels, 24 Channels of Total Analog Audio, 8 Configurable Flex Channels, 16x16 GPIO Logic Ports, 16 Channels of Routable AEC Processing, 4 VoIP Lines, 1 POTS Line, 3-Year Warranty
2	QSC TSC-7t	Q-SYS 7" Tabletop Touchscreen Controller with 800x480 Resolution
1	D-Link DGS-1210-10P	8-Port 10/100/1000 Mbps PoE, 2 SFP QSC Q-Lan Qualified Audio/Video Switch
1	Denon DN-508A	8-Channel Power Amplifier with 55W/Channel at 4-Ohm, 70V, or 100V
2	Middle Atlantic S-2	2RU Perforated Security Cover (amplifier, LAN switch)
1	Radio Design Labs D-SH1M	Stereo Headphone Amplifier with 3.5mm Jack and VC on Decora Wall Plate
2	Radio Design Labs PS-24AS	24VDC, 500mA Power Supply
1	Radio Design Labs DC-1W	Under-Desk Chassis for D-SH1M
1	Radio Design Labs CP-1	1-Gang Decora Trim Plate
1	Radio Design Labs ST-VCA3	Voltage Controlled Amplifier
1	Radio Design Labs ST-SH2	Stereophonic Headphone Amplifier
1	Radio Design Labs AMS-10K	10K Linear Taper Pot and Knob Assembly
1	Radio Design Labs AMS-1/8F	3.5mm Stereo Mini Jack
1	Middle Atlantic RRF10	10RU Rack Rail Kit
1	Middle Atlantic HPQ	3/8" Long 10/32 Rack Screws
2	Middle Atlantic EVT1	1RU Vented Rack Panel
1	Middle Atlantic EVT2	2RU Vented Rack Panel
1	Juice Goose JG 9	15-Amp, 9-Outlet Power Conditioner with Surge Protection
1 Lot	Rapco Duracat 5E	Flexible Jacket Cat-5E Cabling for Touchpanels
1 Lot	West-Penn 25224	Plenum-Rated 18/2 Stranded Loudspeaker Cabling
1 Lot	West-Penn 454	22/2 Shielded Mic/Line Cabling
		<ul style="list-style-type: none"> • Installation Hardware, Cabling, Connectors • Professional Installation by NICET and/or CTS Certified Personnel • System Alignment, Tuning, and End-User Training • System Documentation Including CAD Drawings

Notes:

- Includes 7" touchpanel control for both Judge and Clerk. Each can be programmed independently.
- Includes 2 headphone stations for Court Reporter - 1 below counter and 1 replacing components in existing panel.
- Equipment will be installed in existing 8RU laminate equipment rack.
- Existing loudspeakers, microphones, wall plates, and cabling will be reused.
- See MSL Drawing S-1 for complete system diagram.

Phase 2 - Sound Reinforcement System - County Courtroom 24

<u>Qty.</u>	<u>Manufacturer</u>	<u>Description</u>
1	QSC Core 100f	Q-SYS Flex-Channel Digital Signal Processor with 128x128 Network Audio Channels, 16x16 USB Audio Channels, 24 Channels of Total Analog Audio, 8 Configurable Flex Channels, 16x16 GPIO Logic Ports, 16 Channels of Routable AEC Processing, 4 VoIP Lines, 1 POTS Line, 3-Year Warranty
1	QSC I/O Frame	Q-SYS Integrated System Platform with 4 Card Slots
4	QSC COL4	Q-SYS 4-Channel Line Output Card
2	QSC TSC-7t	Q-SYS 7" Tabletop Touchscreen Controller with 800x480 Resolution
1	D-Link DGS-1210-10P	8-Port 10/100/1000 Mbps PoE, 2 SFP QSC Q-Lan Qualified Audio/Video Switch
1	Denon DN-508A	8-Channel Power Amplifier with 55W/Channel at 4-Ohm, 70V, or 100V
2	Middle Atlantic S-2	2RU Perforated Security Cover (amplifier, LAN switch)
2	Radio Design Labs D-SH1M	Stereo Headphone Amplifier with 3.5mm Jack and VC on Decora Wall Plate
4	Radio Design Labs PS-24AS	24VDC, 500mA Power Supply
2	Radio Design Labs DC-1W	Under-Desk Chassis for D-SH1M
2	Radio Design Labs CP-1	1-Gang Decora Trim Plate
2	Radio Design Labs ST-VCA3	Voltage Controlled Amplifier
2	Radio Design Labs ST-SH2	Stereophonic Headphone Amplifier
2	Radio Design Labs AMS-10K	10K Linear Taper Pot and Knob Assembly
2	Radio Design Labs AMS-1/8F	3.5mm Stereo Mini Jack
1	Middle Atlantic EVT1	1RU Vented Rack Panel
1	Juice Goose JG 9	15-Amp, 9-Outlet Power Conditioner with Surge Protection
1 Lot	Rapco Duracat 5E	Flexible Jacket Cat-5E Cabling for Touchpanels
1 Lot	West-Penn 25224	Plenum-Rated 18/2 Stranded Loudspeaker Cabling
1 Lot	West-Penn 454	22/2 Shielded Mic/Line Cabling
	•	Installation Hardware, Cabling, Connectors
	•	Professional Installation by NICET and/or CTS Certified Personnel
	•	System Alignment, Tuning, and End-User Training
	•	System Documentation Including CAD Drawings

Notes:

- Includes 7" touchpanel control for both Judge and Clerk. Each can be programmed independently.
- Includes 2 headphone stations for both Court Reporters - 1 below counter and 1 replacing components in existing panels.
- Equipment will be installed in existing 8RU laminate equipment rack.
- Existing loudspeakers, microphones, wall plates, and cabling will be reused.
- See MSL Drawing S-1 for complete system diagram.

Phase 2 - Sound Reinforcement System - County Courtroom 25

<u>Qty.</u>	<u>Manufacturer</u>	<u>Description</u>
1	QSC Core 100f	Q-SYS Flex-Channel Digital Signal Processor with 128x128 Network Audio Channels, 16x16 USB Audio Channels, 24 Channels of Total Analog Audio, 8 Configurable Flex Channels, 16x16 GPIO Logic Ports, 16 Channels of Routable AEC Processing, 4 VoIP Lines, 1 POTS Line, 3-Year Warranty
1	QSC I/O Frame	Q-SYS Integrated System Platform with 4 Card Slots
4	QSC COL4	Q-SYS 4-Channel Line Output Card
2	QSC TSC-7t	Q-SYS 7" Tabletop Touchscreen Controller with 800x480 Resolution
1	D-Link DGS-1210-10P	8-Port 10/100/1000 Mbps PoE, 2 SFP QSC Q-Lan Qualified Audio/Video Switch
1	Denon DN-508A	8-Channel Power Amplifier with 55W/Channel at 4-Ohm, 70V, or 100V
2	Middle Atlantic S-2	2RU Perforated Security Cover (amplifier, LAN switch)
2	Radio Design Labs D-SH1M	Stereo Headphone Amplifier with 3.5mm Jack and VC on Decora Wall Plate
4	Radio Design Labs PS-24AS	24VDC, 500mA Power Supply
2	Radio Design Labs DC-1W	Under-Desk Chassis for D-SH1M
2	Radio Design Labs CP-1	1-Gang Decora Trim Plate
2	Radio Design Labs ST-VCA3	Voltage Controlled Amplifier
2	Radio Design Labs ST-SH2	Stereophonic Headphone Amplifier
2	Radio Design Labs AMS-10K	10K Linear Taper Pot and Knob Assembly
2	Radio Design Labs AMS-1/8F	3.5mm Stereo Mini Jack
1	Middle Atlantic EVT1	1RU Vented Rack Panel
1	Juice Goose JG 9	15-Amp, 9-Outlet Power Conditioner with Surge Protection
1 Lot	Rapco Duracat 5E	Flexible Jacket Cat-5E Cabling for Touchpanels
1 Lot	West-Penn 25224	Plenum-Rated 18/2 Stranded Loudspeaker Cabling
1 Lot	West-Penn 454	22/2 Shielded Mic/Line Cabling
	•	Installation Hardware, Cabling, Connectors
	•	Professional Installation by NICET and/or CTS Certified Personnel
	•	System Alignment, Tuning, and End-User Training
	•	System Documentation Including CAD Drawings

Notes:

- Includes 7" touchpanel control for both Judge and Clerk. Each can be programmed independently.
- Includes 2 headphone stations for both Court Reporters - 1 below counter and 1 replacing components in existing panels.
- Equipment will be installed in existing 8RU laminate equipment rack.
- Existing loudspeakers, microphones, wall plates, and cabling will be reused.
- See MSL Drawing S-1 for complete system diagram.

Phase 2 - Sound Reinforcement System - County Courtroom 26

<u>Qty.</u>	<u>Manufacturer</u>	<u>Description</u>
1	QSC Core 100f	Q-SYS Flex-Channel Digital Signal Processor with 128x128 Network Audio Channels, 16x16 USB Audio Channels, 24 Channels of Total Analog Audio, 8 Configurable Flex Channels, 16x16 GPIO Logic Ports, 16 Channels of Routable AEC Processing, 4 VoIP Lines, 1 POTS Line, 3-Year Warranty
1	QSC I/O Frame	Q-SYS Integrated System Platform with 4 Card Slots
4	QSC COL4	Q-SYS 4-Channel Line Output Card
2	QSC TSC-7t	Q-SYS 7" Tabletop Touchscreen Controller with 800x480 Resolution
1	D-Link DGS-1210-10P	8-Port 10/100/1000 Mbps PoE, 2 SFP QSC Q-Lan Qualified Audio/Video Switch
1	Denon DN-508A	8-Channel Power Amplifier with 55W/Channel at 4-Ohm, 70V, or 100V
2	Middle Atlantic S-2	2RU Perforated Security Cover (amplifier, LAN switch)
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2	Radio Design Labs AMS-1/8F	3.5mm Stereo Mini Jack
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1	Juice Goose JG 9	15-Amp, 9-Outlet Power Conditioner with Surge Protection
1 Lot	Rapco Duracat 5E	Flexible Jacket Cat-5E Cabling for Touchpanels
1 Lot	West-Penn 25224	Plenum-Rated 18/2 Stranded Loudspeaker Cabling
1 Lot	West-Penn 454	22/2 Shielded Mic/Line Cabling
		<ul style="list-style-type: none"> • Installation Hardware, Cabling, Connectors • Professional Installation by NICET and/or CTS Certified Personnel • System Alignment, Tuning, and End-User Training • System Documentation Including CAD Drawings

Notes:

- Includes 7" touchpanel control for both Judge and Clerk. Each can be programmed independently.
- Includes 2 headphone stations for both Court Reporters - 1 below counter and 1 replacing components in existing panels.
- Equipment will be installed in existing 8RU laminate equipment rack.
- Existing loudspeakers, microphones, wall plates, and cabling will be reused.
- See MSL Drawing S-1 for complete system diagram.

When considering audio, video or lighting solutions, look for these logos to be assured that you are discussing your problems with a qualified professional certified to know what they are talking about. Midwest Sound & Lighting employs certified personnel to insure your satisfaction.





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 Phone: (402) 731-6268
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2322 O. Street
 Lincoln, NE 68510
 Phone: (402) 474-4918
 Fax: (402) 474-5874
 Toll Free: (800) 617-4298
 info@mwsound.com

Client City of Lincoln/Lancaster County - Hall of Justice	Contact Name Jared Gavin	Date May 3, 2017
Address 575 S. 10th Street	Phone 402-441-7291	Fax
City, State, Zip Lincoln, NE 68508	Email jgavin@lancaster.ne.gov	
Submitted By Matt Davis	Customer No. LANCOU	Proposal No. 1413

CLIENT REFERENCE LIST

Geist, HTI Plastics

David Russel - Director of IT
 1711 Yolande Avenue
 Lincoln, NE 68521
 402-474-4690
 drussell@pce.us.com

MSL designed and installed multiple conference room installations with sound, video, conferencing, and control.

Northeast Community College

Tim Fenton - Learning Space Technologist
 801 E Benjamin Avenue
 Norfolk, NE 68701
 402-844-7137
 tim@northeast.edu

MSL designed and installed sound reinforcement, video, conferencing, and control systems for multiple rooms.

City of Carter Lake, IA

Lisa Ruehle - Deputy Clerk
 950 Locust Street
 Carter Lake, IA 51510
 712-347-6320
 lisa.ruehle@carterlake-ia.gov

MSL designed and installed complete A/V and control systems for various rooms including the City Council Chambers.

City of Lincoln/Lancaster County - Hall of Justice

Jared Gavin - District Court Administrator
 575 S 10th Street
 Lincoln, NE 68508
 402-441-7291
 jgavin@lancaster.ne.gov

MSL has provided on-site technical service for County and District Courtrooms for 10+ years.

When considering audio, video or lighting solutions, look for these logos to be assured that you are discussing your problems with a qualified professional certified to know what they are talking about. Midwest Sound & Lighting employs certified personnel to insure your satisfaction.





CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
05/25/2017

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER INSPRO Insurance P.O. Box 6847 Lincoln, NE 68506 402 483-4500	CONTACT NAME: Laura Paulsen	
	PHONE (A/C, No, Ext): 402-483-4500 FAX (A/C, No): 402-483-7977 E-MAIL ADDRESS: lpaulsen@insproins.com	
INSURED Midwest Sound & Lighting, Inc. 2322 "O" Street Lincoln, NE 68510	INSURER(S) AFFORDING COVERAGE	NAIC #
	INSURER A: Employers Mutual Insurance	21415
	INSURER B:	
	INSURER C:	
	INSURER D:	
	INSURER E:	

COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> OCP GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:	X		3D67494	01/01/2017	01/01/2018	EACH OCCURRENCE \$1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$100,000 MED EXP (Any one person) \$5,000 PERSONAL & ADV INJURY \$1,000,000 GENERAL AGGREGATE \$2,000,000 PRODUCTS - COMP/OP AGG \$2,000,000 \$
A	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS			3E67494	01/01/2017	01/01/2018	COMBINED SINGLE LIMIT (Ea accident) \$1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$10000			3J67494	01/01/2017	01/01/2018	EACH OCCURRENCE \$3,000,000 AGGREGATE \$3,000,000 \$
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE/OFFICER/MEMBER EXCLUDED? Y/N (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below <input checked="" type="checkbox"/> N N/A		X	3H67494	01/01/2017	01/01/2018	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$500,000 E.L. DISEASE - EA EMPLOYEE \$500,000 E.L. DISEASE - POLICY LIMIT \$500,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
City of Lincoln/Lancaster County and Public Building Commission is listed as an additional insured including Completed Operations. Coverage is on a Per Project basis. City of Lincoln/Lancaster County and Public Building Commission is listed as an additional insured on Automobile Liability. Waiver of Subrogation in favor of City of Lincoln/Lancaster County and Public Building Commission is also provided.

CERTIFICATE HOLDER Lancaster County 555 South 10th Street Lincoln, NE 68508	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE
---	---



EMPLOYERS MUTUAL CASUALTY COMPANY

POLICY NUMBER: 3D6-74-94---18

MIDWEST SOUND & LIGHTING, INC.

EFF DATE: 01/01/17

EXP DATE: 01/01/18

GENERAL LIABILITY POLICY
DECLARATIONS

=====
ENDORSEMENT SCHEDULE

FORM	EDITION DATE	DESCRIPTION/ADDITIONAL INFORMATION	PREMIUM
CG0001	04-13	COMMERCIAL GEN LIABILITY COV FORM	
CG2106	05-14	EXCL-ACCESS/DISCL OF CONFID/PERSONAL	
CG2147	12-07	EXCL-EMPLOYMENT RELATED PRACTICES	
CG2167	12-04	FUNGI OR BACTERIA EXCLUSION	
CG2170	01-15	CAP/LOSSES FROM CERT ACTS/TERRORISM	
CG2176	01-15	EXCL PUNITIVE DMGS ACTS OF TERRORISM	
CG7001A	10-12	GENERAL LIABILITY SCHEDULE	
CG7003	10-13	GL QUICK REFERENCE (OCCURRENCE)	
CG7141	05-90	EXTENDED PROPERTY DAMAGE COVERAGE	
CG7191	08-14	GENERAL LIAB ESSENTIAL EXTENSION	
CG7193.1	10-13	AI-OWN/LESS/CONTR - INCL COMP OPS NAME: ANY OR ALL PERSONS OR ORGANIZATIONS SUBJECT TO A WRITTEN CONTRACT REQUIRING SUCH AN ADDITIONAL INSURED AGREEMENT.	
CG7253	12-96	CONTRACTORS EXTENDED PROPERTY DAMAGE	
CG7429	11-98	AMEND - AGGREGATE LIMIT PER PROJECT	
CG7482	10-13	AUTOMATIC AI-CONST CONTRACT-VICAR	
CG7555	10-13	BLKT WAIV SUBRO WRITTEN CONT/AGREE	
IL0021	05-02	NUCLEAR ENERGY LIAB EXCL/BROAD FORM	
IL0259	09-07	NE CHANGES - CANCELLATION/NONRENEWAL	
IL7028	05-15	ASBESTOS EXCLUSION	
*IL7131A	04-01	COMM'L POLICY ENDORSEMENT SCHEDULE	
*IL8021	04-88	ASBESTOS NOTICE	
IL8383.2A	01-15	DISCL PURSUANT TERRSM RISK INS. ACT	\$ 32
IL8384A	01-08	TERRORISM NOTICE	
*IL8576	09-09	MEDICARE IMPT NOTICE TO POLICYHOLDER	

DATE OF ISSUE: 12/30/16

FORM: IL7131A (ED. 04-01)

017

MB

3D67494 1801

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**ADDITIONAL INSURED – OWNERS, LESSEES OR CONTRACTORS
INCLUDING COMPLETED OPERATIONS –
PRIMARY AND NONCONTRIBUTORY**

This endorsement modifies the insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE FORM

SCHEDULE

Name Of Additional Insured Person(s) Or Organization(s):	City of Lincoln/Lancaster County and PBC
Project:	
Location Of Project:	
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.	

A. Section II – Who Is An Insured is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability arising out of "your work" performed for that additional insured by or for you at the location designated and described in the Schedule of this endorsement.

However:

1. The insurance afforded to such additional insured only applies to the extent permitted by law; and
2. If coverage provided to the additional insured is required by a contract or agreement, the insurance afforded to such additional insured will not be broader than that which you are required by the contract or agreement to provide for such additional insured.

B. With respect to the insurance afforded to these additional insureds, the following is added to Section III – Limits Of Insurance:

If coverage provided to the additional insured is required by a contract or agreement, the most we will pay on behalf of the additional insured is the amount of insurance:

1. Required by the contract or agreement; or

2. Available under the applicable Limits of Insurance shown in the Declarations; whichever is less.

This endorsement shall not increase the applicable Limits of Insurance shown in the Declarations.

C. The following is added to the Other Insurance Condition and supersedes any provision to the contrary:

Primary and Noncontributory Insurance

This insurance is primary to and will not seek contribution from any other insurance available to an additional insured under your policy provided that:

- (1) The additional insured is a Named Insured under such other insurance; and
- (2) You have agreed in writing in a contract or agreement that this insurance would be primary and would not seek contribution from any other insurance available to the additional insured.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

AMENDMENT — AGGREGATE LIMITS OF INSURANCE (PER PROJECT)

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

The General Aggregate Limit under LIMITS OF INSURANCE (Section III) applies separately to each of your projects away from premises owned by or rented to you.

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EMPLOYERS MUTUAL CASUALTY COMPANY

POLICY NUMBER: 3E6-74-94---18

MIDWEST SOUND & LIGHTING, INC.

EFF DATE: 01/01/17

EXP DATE: 01/01/18

COMMERCIAL AUTO POLICY
DECLARATIONS

=====
ENDORSEMENT SCHEDULE

FORM	EDITION DATE	DESCRIPTION/ADDITIONAL INFORMATION	PREMIUM
*0405B	08-15	PRIVACY NOTICE	
3003C	05-10	GLASS REPAIR FORM	
*CA0001	10-13	BUSINESS AUTO COVERAGE FORM TERRORISM COVG INCL IN MAIN COV FORM	\$ 18
*CA0156	11-13	NEBRASKA CHANGES	
*CA0221	10-13	NEBRASKA CHANGES - CANCELLATION	
*CA2001	10-13	LESSOR-ADDITIONAL INSURED/LOSS PAYEE DESIGNATION OR DESCRIPTION OF "LEASED AUTOS"	
*CA2170	10-13	NE UNINSURED/UNDERINS MOTORISTS COV	
*CA7001A	11-15	COMM AUTO DECLARATIONS/ADDIT'L ITEMS	
*CA7002A	11-15	COMM AUTO DECLARATIONS - ITEMS 4 & 5	
*CA7007	11-15	QUICK REFERENCE BUSINESS AUTO FORM	
*CA7093A	03-09	UM/UIM SUPPLEMENTAL SCHEDULE	
*CA7270	11-15	COMMERCIAL AUTO AMENDMENT	
*CA7312	11-15	RENTAL VEHICLE EXTENSIONS	
*CA7313	11-15	PREJUDGMENT INTEREST	
*CA8112.2	11-15	IMPT NOTICE -PAYMENT FOR AFTERMARKET	
*CA8245	11-15	2013 POLICYHOLDER NOTICE	
*CA9933	10-13	EMPLOYEES AS INSURED	
*CA9935	11-13	NEBRASKA AUTO MEDICAL PAYMENTS	
*CA9944	10-13	LOSS PAYABLE CLAUSE	
*CA9948	10-13	POLLUTION LIAB BROADND COV/COV AUTOS	
IL0021	05-02	NUCLEAR ENERGY LIAB EXCL/BROAD FORM	
*IL7131A	04-01	COMM'L POLICY ENDORSEMENT SCHEDULE	
*IL8576	09-09	MEDICARE IMPT NOTICE TO POLICYHOLDER	
*MCS-90	-	PUBLIC LIABILITY ENDST FOR MOTOR CAR	

DATE OF ISSUE: 12/30/16

FORM: IL7131A (ED. 04-01)

017

MB

3E67494 1801

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

COMMERCIAL AUTO ESSENTIAL EXTENSION

This endorsement modifies insurance provided under the following:

BUSINESS AUTO COVERAGE FORM

The BUSINESS AUTO COVERAGE FORM is amended to include the following clarifications and extensions of coverage. With respect to coverage provided by this endorsement, the provisions of the Coverage Form apply unless modified by the endorsement.

A. BLANKET ADDITIONAL INSURED

Section II – Covered Autos Liability Coverage, A.1. Who Is An Insured is amended by adding the following:

Any person or organization who is a party to a written agreement or contract with you in which you agree to provide the type of insurance afforded under this Business Auto coverage Form.

This provision applies to claims for "bodily injury" or "property damage" which occur after the execution of any written agreement or contract.

B. NEWLY FORMED OR ACQUIRED ORGANIZATIONS

Section II – Covered Autos Liability Coverage, A.1. Who Is An Insured is amended by adding the following:

e. Any organization which you acquire or form after the effective date of this policy in which you maintain ownership or majority interest. However:

1. Coverage under this provision is afforded only up to 180 days after you acquire or form the organization, or to the end of the policy period, whichever is earlier.
2. Any organization you acquire or form will not be considered an "insured" if:
 - a. The organization is a partnership or a joint venture; or
 - b. That organization is covered under other similar insurance.
3. Coverage under this provision does not apply to any claim for "bodily injury" or "property damage" resulting from an "accident" that occurred before you formed or acquired the organization.

C. SUBSIDIARIES AS INSUREDS

Section II – Covered Autos Liability Coverage, A.1. Who Is An Insured is amended by adding the following:

Any legally incorporated subsidiary in which you own more than 50% of the voting stock on the effective date of this policy. However, "insured" does not include any subsidiary that is an "insured" under any other automobile liability policy or was an "insured" under such a policy but for termination of that policy or the exhaustion of the policy's limits of liability.

D. SUPPLEMENTARY PAYMENTS

Section II – Covered Autos Liability Coverage, A.2.a. Coverage Extensions, Supplementary Payments (2) and (4) are replaced by the following:

- (2) Up to \$3,000 for cost of bail bonds (including bonds for related traffic law violations) required because of an "accident" we cover. We do not have to furnish these bonds.
- (4) All reasonable expenses incurred by the "insured" at our request, including actual loss of earnings up to \$350 a day because of time off from work.

E. TOWING

Section III – Physical Damage Coverage, A.2. Towing is replaced with the following:

We will pay for towing and labor costs incurred, subject to the following:

- a. Up to \$100 each time a covered "auto" of the private passenger type is disabled; or
- b. Up to \$500 each time a covered "auto" other than the private passenger type is disabled.

However, the labor must be performed at the place of disablement.

F. LOCKSMITH SERVICES

Section III – Physical Damage Coverage, A.4. Coverage Extensions is amended by adding the following:

We will pay up to \$50 per occurrence for necessary locksmith services for keys locked inside a covered private passenger "auto" for which Comprehensive coverage is provided. The deductible is waived for these services.

G. TRANSPORTATION EXPENSES

Section III – Physical Damage Coverage, A.4. Coverage Extensions Subparagraph a. Transportation Expenses is replaced by the following:

- (1) We will pay up to \$75 per day to a maximum of \$1,000 for temporary transportation expense incurred by you because of the total theft of a covered "auto" of the private passenger type. We will pay only for those covered "autos" for which you carry either Comprehensive or Specified Cause Of Loss Coverage. We will pay for temporary transportation expenses

incurred during the period beginning 48 hours after the theft and ending, regardless of the policy's expiration, when the covered "auto" is returned to use or we pay for its "loss".

- (2) If the temporary transportation expenses you incur arise from your rental of an "auto" of the private passenger type, the most we will pay is the amount it costs to rent an "auto" of the private passenger type which is of the same like kind and quality as the stolen covered "auto".

H. AUDIO, VISUAL, AND DATA ELECTRONIC EQUIPMENT COVERAGE ADDED LIMITS

Audio, Visual, And Data Electronic Equipment Coverage Added Limits of \$1,000 Per "Loss" are in addition to the sublimit in Paragraph C.1.b. of the Limits Of Insurance Provision under Section III – Physical Damage Coverage.

I. HIRED AUTO PHYSICAL DAMAGE

Section III – Physical Damage Coverage, A.4. Coverage Extensions is amended by adding the following:

If hired "autos" are covered "autos" for Liability Coverage, and if Comprehensive, Specified Causes of Loss, or Collision coverage is provided for any "auto" you own, then the Physical Damage coverages provided are extended to "autos" you hire, subject to the following limit and deductible:

1. The most we will pay for loss to any hired "auto" is the lesser of Actual Cash Value, \$75,000, or Cost of Repair, minus the deductible.
2. The deductible will be equal to the largest deductible applicable to any owned "auto" for that coverage. No deductible applies to "loss" caused by fire or lightning.
3. Subject to the above limit and deductible provisions, we will provide coverage equal to the broadest coverage applicable to any covered "auto" you own.

J. PERSONAL PROPERTY OF OTHERS

Section III – Physical Damage Coverage, A.4. Coverage Extensions is amended by adding the following:

We will pay up to \$500 for loss to personal property of others in or on your covered "auto".

This coverage applies only in the event of "loss" to your covered "auto" caused by fire, lightning, explosion, theft, mischief or vandalism, the covered "auto's" collision with another object, or the covered "auto's" overturn.

No deductibles apply to this coverage.

K. RENTAL REIMBURSEMENT

Section III – Physical Damage Coverage, A.4. Coverage Extensions is amended by adding the following:

1. This coverage applies only to a covered "auto" for which **Physical Damage Coverage** is provided on this policy.
2. We will pay for rental reimbursement expenses incurred by you for the rental of an "auto" because of "loss" to a covered "auto". Payment applies in addition to the otherwise applicable amount of each coverage you have on a covered "auto". No deductibles apply to this coverage.
3. We will pay only for those expenses incurred during the policy period beginning 24 hours after the "loss" and ending, regardless of the policy's expiration, with the lesser of the following number of days:
 - a. The number of days reasonably required to repair or replace the covered "auto". If "loss" is caused by theft, this number of days is added to the number of days it takes to locate the covered "auto" and return it to you; or
 - b. 30 days.
4. Our payment is limited to the lesser of the following amounts:
 - a. Necessary and actual expenses incurred; or
 - b. \$50 per day, subject to a \$1,500 limit.
5. This coverage does not apply while there are spare or reserve "autos" available to you for your operations.
6. If "loss" results from the total theft of a covered "auto" of the private passenger type, we will pay under this coverage only that amount of your rental reimbursement expenses which is not already provided for under the Physical Damage – Transportation Expense coverage extension included in this endorsement.
7. Coverage provided by this extension is excess over any other collectible insurance and/or endorsement to this policy.

L. AIRBAG COVERAGE

Section III – Physical Damage Coverage, B.3.a. Exclusions is amended by adding the following:

If you have purchased Comprehensive or Collision Coverage under this policy, the exclusion relating to mechanical breakdown does not apply to the accidental discharge of an airbag.

M. LOSS TO TWO OR MORE COVERED AUTOS FROM ONE ACCIDENT

Section III – Physical Damage Coverage, D. Deductible is amended by adding the following:

If a Comprehensive, Specified Causes of Loss or Collision Coverage "loss" from one "accident" involves two or more covered "autos", only the highest deductible applicable to those coverages will be applied to the "accident".

If the application of the highest deductible is less favorable or more restrictive to the insured than the separate deductibles as applied in the standard form, the standard deductibles will apply.

This provision only applies if you carry Comprehensive, Collision or Specified Causes of Loss Coverage for those vehicles, and does not extend coverage to any covered "autos" for which you do not carry such coverage.

N. WAIVER OF DEDUCTIBLE – GLASS REPAIR OR REPLACEMENT

Section III – Physical Damage Coverage, D. Deductible is amended by adding the following:

If a Comprehensive Coverage deductible is shown in the Declarations it does not apply to the cost of repairing or replacing damaged glass.

O. DUTIES IN THE EVENT OF ACCIDENT, CLAIM, SUIT, OR LOSS

Section IV – Business Auto Conditions, A.2. Duties In The Event Of Accident, Claim, Suit Or Loss is amended by adding the following:

- d. Your obligation to notify us promptly of an "accident", claim, "suit" or "loss" is satisfied if you send us the required notice as soon as practicable after your Insurance Administrator or anyone else designated by you to be responsible for insurance matters is notified, or in any manner made aware, of an "accident", claim, "suit" or "loss".

P. UNINTENTIONAL FAILURE TO DISCLOSE EXPOSURES

Section IV – Business Auto Conditions, B.2. Concealment, Misrepresentation, Or Fraud is amended by adding the following:

If you unintentionally fail to disclose any exposures existing at the inception date of this policy, we will not deny coverage under this Coverage Part solely because of such failure to disclose. However, this provision does not affect our right to collect additional premium or exercise our right of cancellation or non-renewal.

Q. MENTAL ANGUISH

Section V – Definitions, C. is replaced by the following:

"Bodily injury" means bodily injury, sickness or disease sustained by a person, including mental anguish or death resulting from bodily injury, sickness or disease.

R. LIBERALIZATION

Paragraph B.3. Liberalization is amended for this endorsement as follows:

If we revise this endorsement to provide greater coverage without additional premium charge, we will automatically provide the additional coverage to all endorsement holders as of the day the revision is effective in your state.



EMPLOYERS MUTUAL CASUALTY COMPANY (15539) POLICY NUMBER: 3H6-74-94---18

MIDWEST SOUND & LIGHTING, INC. EFF DATE: 01/01/17 EXP DATE: 01/01/18

WORKERS COMPENSATION POLICY
DECLARATIONS

=====
ENDORSEMENT SCHEDULE

FORM	EDITION DATE	DESCRIPTION/ADDITIONAL INFORMATION	PREMIUM
*0405B	08-15	PRIVACY NOTICE	
*IL7004	09-16	MUTUAL POLICY PROVISIONS	
*IL7131A	04-01	COMM'L POLICY ENDORSEMENT SCHEDULE	
IL8383.2A	01-15	DISCL PURSUANT TERRSM RISK INS. ACT	\$ 149
*IL8576	09-09	MEDICARE IMPT NOTICE TO POLICYHOLDER	
WC000000C	01-15	WC AND EMPLOYERS LIABILITY INSURANCE	
WC000310	04-84	SOLE PROPRIETORS/PARTNERS/OFFICERS SOLE PROPRIETORS, PARTNERS, OFFICERS AND OTHERS INCLUDED BELOW (NAME, TYPE & STATE): FIRST NAME: JOHN P. KNUTHE PRESIDENT PERSON: OFFICERS STATE(S):NE FIRST NAME: JAMES C. KNUTH SECRETARY/TREASURER PERSON: OFFICERS STATE(S):NE	
WC000313	04-84	WAIVER OF OUR RIGHT TO RECOVER "ANY OR ALL PERSONS OR ORGANIZATIONS SUBJECT TO A WRITTEN CONTRACT REQUIRING SUCH A WAIVER AGREEMENT"	
*WC000406A	07-95	PREMIUM DISCOUNT ENDORSEMENT	
WC000414	07-90	NOTIFICATION OF CHANGE IN OWNERSHIP	
WC000419	01-01	PREMIUM DUE DATE ENDORSEMENT	
WC000421D	01-15	CATASTROPHE O/T CERT ACTS TERRORISM	
WC000422B	01-15	TERRORISM REAUTHORIZATION ACT END.	
*WC000424	01-17	AUDIT NONCOMPLIANCE CHARGE STATE(S): NE BASIS OF AUDIT NONCOMPLIANCE CHARGE: ESTIMATED ANNUAL PREMIUM MAXIMUM AUDIT NONCOMPLIANCE CHARGE MULTIPLIER: 2.000	
WC260402	01-95	NE CONTRACTORS CLASS PREM ADJUSTMENT	
WC260601C	07-96	NE CANCELLATION & NONRENEWAL ENDST	
*WC7003A	09-86	WORKERS COMPENSATION SCHEDULE	
WC7005	07-11	WC QUICK REFERENCE	
*WC8065	02-08	NE-PREMIUM CREDIT APPLICATION	
WC8130	10-14	IMPORTANT NOTICE	

DATE OF ISSUE: 12/30/16

FORM: IL7131A (ED. 04-01)

017

MB

3H67494 1801

WAIVER OF OUR RIGHT TO RECOVER FROM OTHERS ENDORSEMENT

We have the right to recover our payments from anyone liable for an injury covered by this policy. We will not enforce our right against the person or organization named in the Schedule. (This agreement applies only to the extent that you perform work under a written contract that requires you to obtain this agreement from us.)

This agreement shall not operate directly or indirectly to benefit anyone not named in the Schedule.

Schedule

City of Lincoln/Lancaster County and PBC

This endorsement changes the policy to which it is attached and is effective on the date issued unless otherwise stated.

(The information below is required only when this endorsement is issued subsequent to preparation of the policy.)

Endorsement
Insured

Effective Policy No.

Endorsement No.
Premium

Insurance Company

Countersigned by _____

GENERAL SPECIFICATIONS

HALL OF JUSTICE COURTROOM AUDIO SPECIFICATIONS

1. GENERAL NOTICE

- 1.1 Lancaster County, hereinafter referred to as Owners, are requesting bids from qualified companies, hereinafter referred to as Vendor(s) for the removal of old equipment and supply and installation of a complete audio system in courtrooms throughout the Hall of Justice at 575 S 10th St., Lincoln, NE 68508.
 - 1.1.1 The following courtrooms are where the work will be provided:
 - 4th Floor (Juvenile Court) – Courtrooms 40, 41, 42, 43
 - 3rd Floor (District Court) – Courtrooms 30, 31, 32, 33, 34, 35, 36, 37, and 38
 - 2nd Floor (County Court) – Courtrooms 21, 22, 23, 24, 25, and 26
 - 1.1.2 Qualified Vendors are those who are dealers approved to sell, install and service Harman – BSS or equivalent products and are NICET and/or CTS Certified.
 - 1.1.3 Associated equipment includes integration of the current video conference system into the new audio system.
 - 1.1.3.1 Vendor shall include the labor and materials to complete this work as part of each Line Item.
- 1.2 The Vendor shall include all costs associated with the labor, supervision, materials, supplies, permits and licenses required to perform the services requested in these Specifications, the plans and drawings and other bid documents.
 - 1.2.1 Any mention of compliance with the General Specifications shall also mean the compliance according to the terms of all other documents attached to or referenced in the bid.
- 1.3 Contract will be awarded to the lowest, responsible, responsive Vendor whose bid substantially meets all of the required specifications, duties, terms and conditions as defined in this request.
- 1.4 Vendor shall maintain existing functions at the facility and protect the general public, employees, and buildings against damage during all portions of the project.
 - 1.4.1 Any damage done to any part of the facility which is not part of this construction will be immediately repaired by the Vendor at no charge to the Owners.
 - 1.4.2 Vendor shall not store construction products, tools or supplies in an area other than what is designated as a staging area.
- 1.5 The Owners will execute a firm-fixed contract for the work to be performed under the terms of an awarded contract.
 - 1.6.1 The Owners reserve the right to allow adjustments to the contract should there be a substantial change in the nature of the work involved.
 - 1.6.1.1 Such adjustments must be made in the form of a written contract amendment signed by both the Vendor and the Owners at the time of the change.
- 1.6 Any deviation from these Specifications or any other bid document must be documented on Company Letterhead and attached to the Supplier Response section of your ebid response.
- 1.7 Vendor must submit their bid and all attachments via the City/County e-bid system.
 - 1.7.1 To submit a bid, Vendor must be registered with the City of Lincoln/Lancaster County Purchasing Dept.
 - 1.7.2 To register, go to the City of Lincoln website; lincoln.ne.gov type bid in search box click on “supplier registration” follow instructions to completion.
- 1.8 All inquiries regarding these specifications shall be directed via e-mail request to Bob Walla, Purchasing Agent (rwalla@lincoln.ne.gov).
 - 1.8.1 These inquiries and/or responses shall be distributed to prospective Vendors as an electronic addenda.

- 1.8.2 All inquiries must be submitted to the Purchasing Office 5 days prior to the bid opening.
- 1.8.3 Vendors are not allowed to discuss this bid with any County employee or elected official other than the City/County Purchasing Staff through the award process.
 - 1.8.3.1 Failure to follow this requirement may result in immediate disqualification of your bid.
- 1.9 A bid bond is required in the amount of 5% of the total bid amount at time of bid submission.
- 1.10 A Performance and Payment bond in the full amount of the contract will be required at time of contract award.
- 1.11 Work may be performed at the jobsite during operating hours which are from 7am - 5pm, Monday - Friday.
 - 1.11.1 Work outside of these days and times shall be subject to approval of the Owner.
- 1.12 The awarded contract is not assignable without the written approval of the Owners in the form of a contract amendment.
- 1.13 Vendors are encouraged to attend a pre-bid meeting on Tuesday April 25, 2017 at 12:00 p.m. at the Hall of Justice, 575 So. 10th Street, Juvenile Court Lobby (4th Floor) , Lincoln, NE to familiarize themselves with the scope of the work, the area surrounding the sites, and the particularities of the overall operation.
- 1.14 Progress payments shall be made by the County through the Owner Representative for documented work completed during the project for each phase.
 - 1.14.1 At no time will the County make payment for work that has not been completed and approved.
 - 1.14.2 Vendor may request progress payments which will be paid according to completion and Owner approval of equipment and installation for Phase 1 and Phase 2.
- 1.15 The Construction Administrator for this project will be Chad Dalton – Information Services.
- 1.16 The Owners Representative for this project will be Jared Gavin – District Court Administrator.
- 1.17 The County has listed a Package with Line Items for Phase 1 and Phase 2 with Lump Sum pricing for each courtroom for the equipment and labor to be provided.
 - 1.17.1 It is the intent of the County to award one contract for a Vendor to complete all work as required in both Line Items but reserves the right to split the award if it is in the best interest of the County to do so.

2. CONTRACTOR INSURANCE

- 2.1 The awarded Vendor shall furnish the Owners with a Certificate of Insurance ACORD and associated endorsements in the kinds and minimum amounts as detailed in the attached "Insurance Requirements for all Contracts" at time of award.
- 2.2 All certificates of insurance ACORD shall be filed with the Owners showing specific limits of insurance coverage required and showing Lancaster County as "Named Additional Insured" as pertains to these services.
- 2.3 **Vendors are strongly encouraged to send the insurance requirements and endorsement information to their Insurance Agent during the bid process in order to ensure contract execution within 5 days of award notice.**

3. QUALIFICATIONS OF THE BIDDER

- 3.1 The Owner may investigate as deemed necessary to determine the ability of the Vendor to perform the required work, and the Vendor shall furnish to the Owners all such information and data for this purpose.

- 3.2 No Vendor will be considered who is not at the present time an authorized dealer and installer of the equipment being proposed, NICET and/or CTS Certified, and actively engaged in the performance of audio system supply and installation services, and who cannot clearly demonstrate to the satisfaction of the Owners, his/her ability to satisfactorily perform the work in accordance with the requirements of this specification and standards of the industry.
- 3.3 Vendor shall provide at least three current references for other customers where similar services have been provided in the last five years at time of bid response or upon request.
 - 3.3.1 Reference responses may be attached to the Response Attachment section of the ebid response.

4. REMOVAL, DISPOSAL AND SITE RESTORATION

- 4.1 The Vendor shall remove from the site and dispose of all material, debris, installation materials and adhesives in accordance with all Local, State and Federal regulations.
 - 4.1.1 Vendors are strongly encouraged to recycle metal, concrete and any other material in order to reduce the amount of waste going to the City Landfill.
- 4.2 Vendors shall discuss the removal and disposal of any audio or other equipment with the Owner Representative to determine if they have surplus value.

5. CONSTRUCTION REQUIREMENTS

- 5.1 Vendor must comply with City of Lincoln Standard Specifications for Municipal Construction and Lincoln Standard Plans (including General Provisions and Requirements, and Material and Construction Specifications) throughout the completion of the project provided they do not interfere with the other documents attached to the bid, and all Local, State and Federal Building Codes and Regulations.
 - 5.1.1 Any deviation from these codes must be addressed as part of the bid response prior to bid closing.
 - 5.1.2 Any deviation from the bid documents and contract which may arise during construction must be addressed and approved by the Owner's Representative prior to completion of work, with a contract amendment being issued as necessary.
- 5.2 Vendor shall bid high quality, commercial grade audio equipment such as BSS Harmon or other brands which will provide high quality sound and performance throughout the life of the product and is compatible with the existing video conference system.
 - 5.2.1 The County will not accept any products that are incompatible with the existing video conferencing equipment in the courtrooms.
- 5.3 The Vendor is responsible for obtaining and paying of all fees and charges associated with permits or licenses required to complete the work for this project.
- 5.4 Vendors will be given a location to park vehicles and stage equipment during the term of the project.
- 5.5 All Vendor employees will be required to undergo a background check prior to beginning work on the project.
 - 5.5.1 Employees with a criminal history may not be eligible to perform the work on this project.
- 5.6 Vendor takes full responsibility for all of their employees and any subcontractors who are hired to work on the project.
- 5.7 All work related to the construction shall be included in the lump sum amount for the bid item as listed in the final contract document.
- 5.8 Vendor shall install cabling and electricity to locations for installation of audio equipment according to industry standards and Local/State Building Codes.
 - 5.8.1 Existing microphone and speaker cabling may be used as well as functioning audio transformers.

- 5.9 Audio installation must be performed in a manner which will not compromise the integrity of the building structure.
- 5.10 The integration of the video conferencing system into the audio system being installed is a part of this bid and Vendors must include pricing for materials and labor to incorporate the systems for each location.
 - 5.10.1 The video conferencing system is a CISCO brand utilizing the TelePresence Management Suite software.
- 5.11 Vendor shall include all labor and materials necessary to connect existing equipment including cameras and video conferencing system to each location to the new audio system.
 - 5.11.1 Each Courtroom has two CISCO video cameras, one ELMO presenter, and one CISCO virtual keypad which must be compatible with the courtroom audio system.

6. DETAILED EQUIPMENT INFORMATION

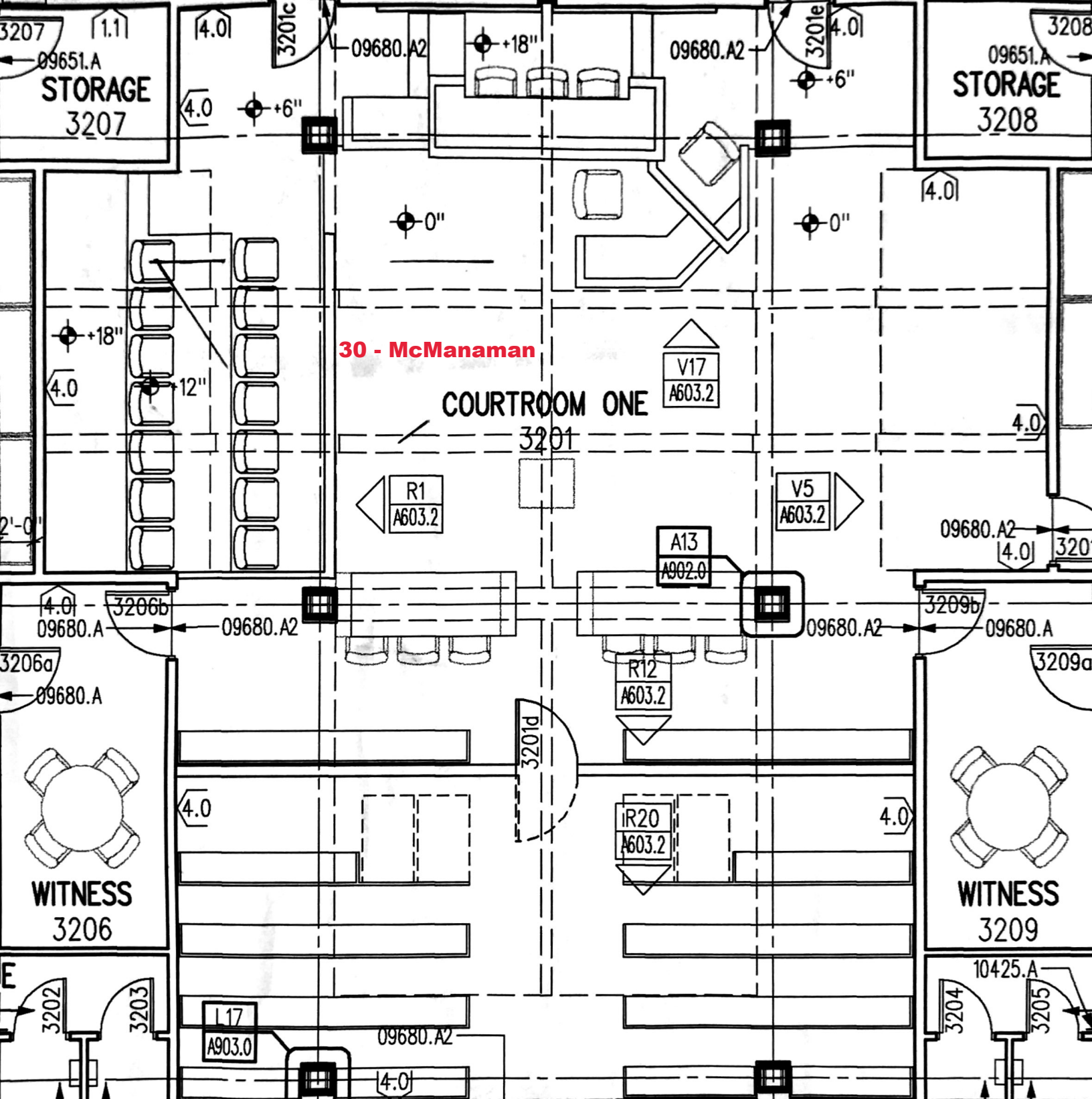
- 6.1 The following equipment will be placed in each courtroom:
 - 6.1.1 System must be capable of producing 8 audio channels for digital recording
 - 6.1.2 Digital Conference Audio Processor for Video Conferencing
 - 6.1.3 Digital Audio Processor
 - 6.1.4 Rack Mounted Professional Custom Volume Control Panel
 - 6.1.5 Rack Mount Power Conditioner
 - 6.1.6 Amplifier with Line Input Module
 - 6.1.7 One Wireless Lapel Microphone System Total (Not for Each Courtroom)
 - 6.1.8 Ability to Interface with Court Recording System with 8 Channels
- 6.2 The following is a description of where the equipment will be installed and operational information:
 - 6.2.1 There is a bench conference microphone that will be routed to the digital court recording system, not into the courtroom sound system.
 - 6.2.2 The audio system shall be a zoned, mix-minus system, to provide the best possible sound pressure levels for intelligibility before feedback.
 - 6.2.3 Through the use of digital matrix routing, sub-mixers, combiners, and direct inputs, the audio signals should be available as an input to the court digital recording system.
 - 6.2.4 Microphones will be grouped in a combined manner in order to deliver 8 channels of audio to a recording system and the configuration should be approved by the court.
 - 6.2.5 The recording system shall be independent of the general courtroom audio system and is not part of this bid as the existing recording system will be used.
 - 6.2.6 The audio system controls should be tied into the automation system allowing the judge or the clerk to mute any or all microphones, select a bench conference preset, and to raise or lower the volume associated with the teleconferencing system or to make adjustments to the playback levels of the laptops, PCs, and the BluRay/DVD player.
 - 6.2.7 There should be a line level audio signal available under the court reporters desk for headphone monitoring (3.5 mm output) and an additional audio out for listening through a desk top powered monitor speaker.
 - 6.2.7.1 Except when audio is muted, audio should be routed at all times to the court reporter location including during bench conference.
 - 6.2.8 The IR assisted listening system (not provided with this bid but by the Court) will be configured to allow for Channel 1 to be accessible for courtroom translation purposes and Channel 2 to be used for general courtroom assisted listening for those with hearing impairments or the media.

7. PROJECT COMPLETION AND WARRANTY

- 7.1 Final completion of Phase 1 shall be July 30, 2017 or sooner, and final completion of Phase 2 shall be December 1, 2017 or sooner, based on a notice to proceed of April 25, 2017.
 - 7.1.1 The Owners are requiring that installation be performed in the following order:
 - 7.1.1.1 Phase 1:
 - 4th Floor (Juvenile Court) – Courtrooms 41 and 43
 - 3rd Floor (District Court) – Courtrooms 31, 32, 33, and 34
 - 2nd Floor (County Court) – Courtrooms 21, 22, and 23
 - 7.1.1.2 Phase 2:
 - 4th Floor (Juvenile Court) – Courtrooms 40 and 42
 - 3rd Floor (District Court) – Courtrooms 30, 35, 36, 37, and 38
 - 2nd Floor (County Court) – Courtrooms 24, 25, and 26
- 7.2 Vendor must complete the project according to the agreed upon contract completion dates which will be listed in the contract documents.
 - 7.2.1 Failure to complete the project by the contract dates for each phase shall result in the charging of liquidated damages according to the terms listed in the City of Lincoln Standard Specifications for Municipal Construction and Lincoln Standard Plans.
 - 7.2.2 Delays caused by the Owners or other factors not in the control of the Vendor will result in an extension of the project and an amendment to the contract.
- 7.3 All work performed under the terms of this bid and subsequent contract documents shall be guaranteed for a minimum period of three (3) years from date of final completion and approval of the project, or longer according to the terms of the manufacturer's standard agreement.
- 7.4 Job shall be completed according to industry standards with approval of completion and final payment being made by the Construction Administrator and the Owner's Representative.

8. EVALUATION CRITERIA

- 8.1 Evaluation of bids will consist of the following:
 - 8.1.1 Total price of contract and other pricing factors that will amount to the best value to the Owners.
 - 8.1.2 Ability to provide labor and services as required in this Specification.
 - 8.1.3 Deviations from these Specifications.
 - 8.1.4 References



STORAGE
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STORAGE
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30 - McManaman

COURTROOM ONE

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3206

WITNESS
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IR20
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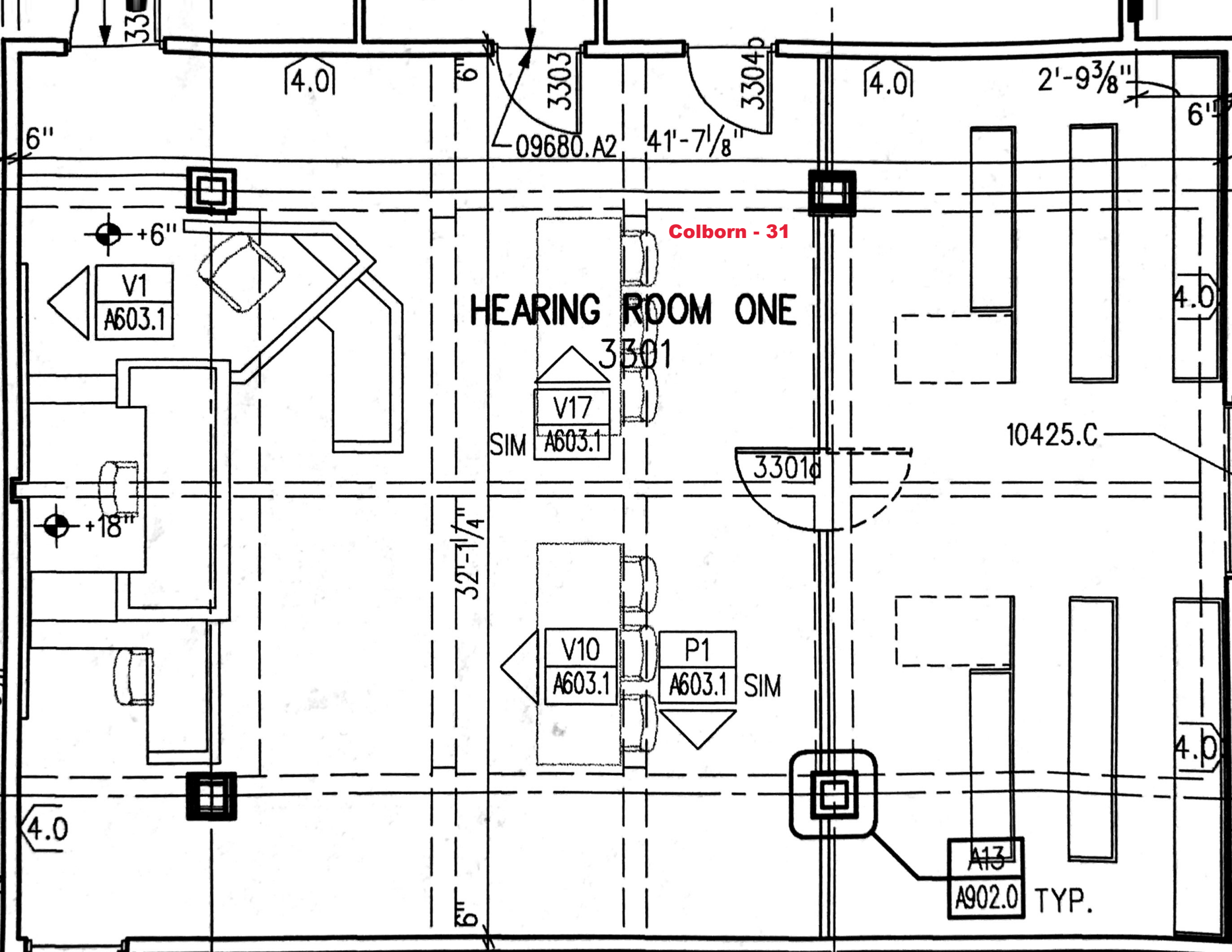
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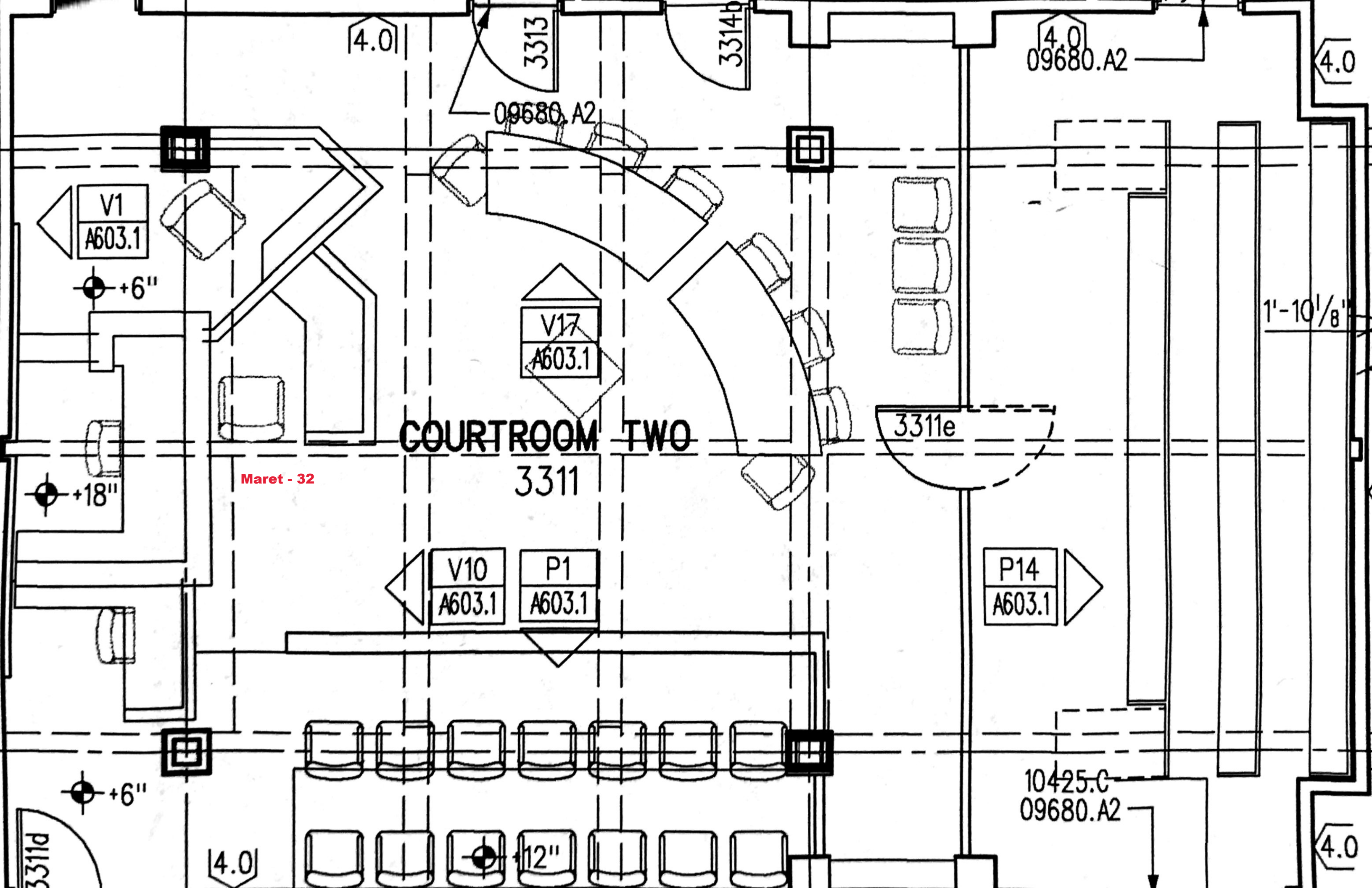
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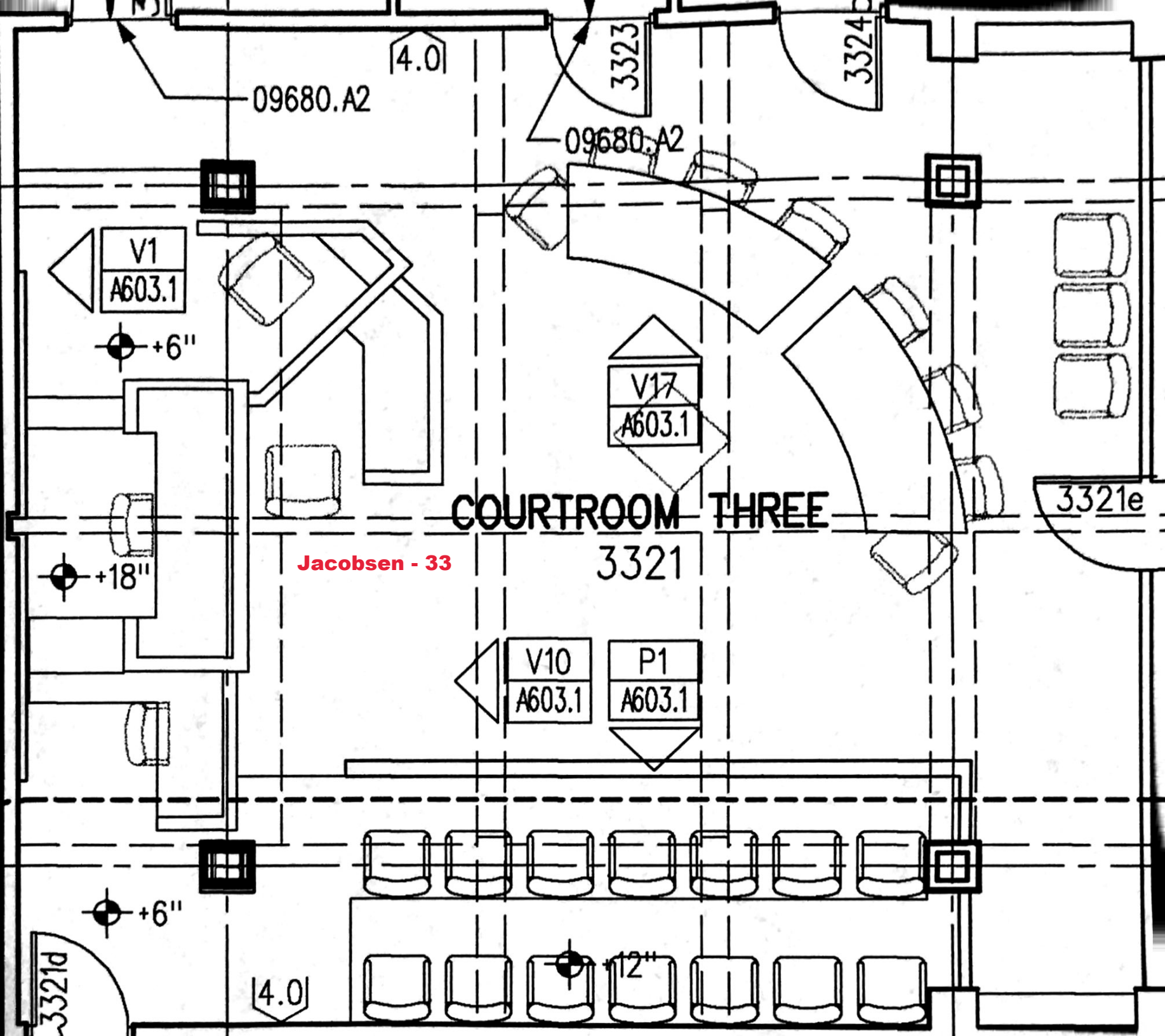
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Jacobsen - 33

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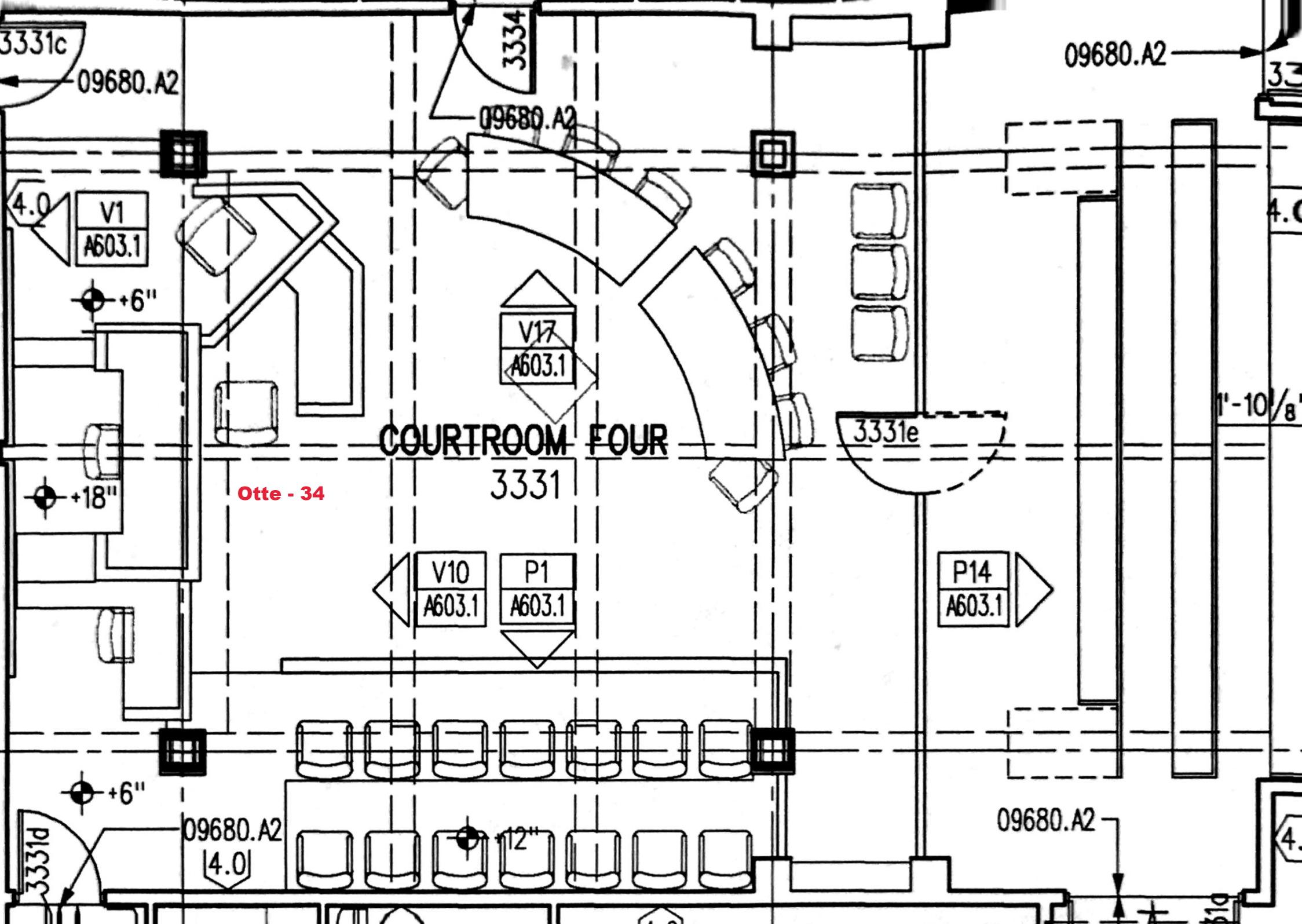
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COURTROOM FOUR

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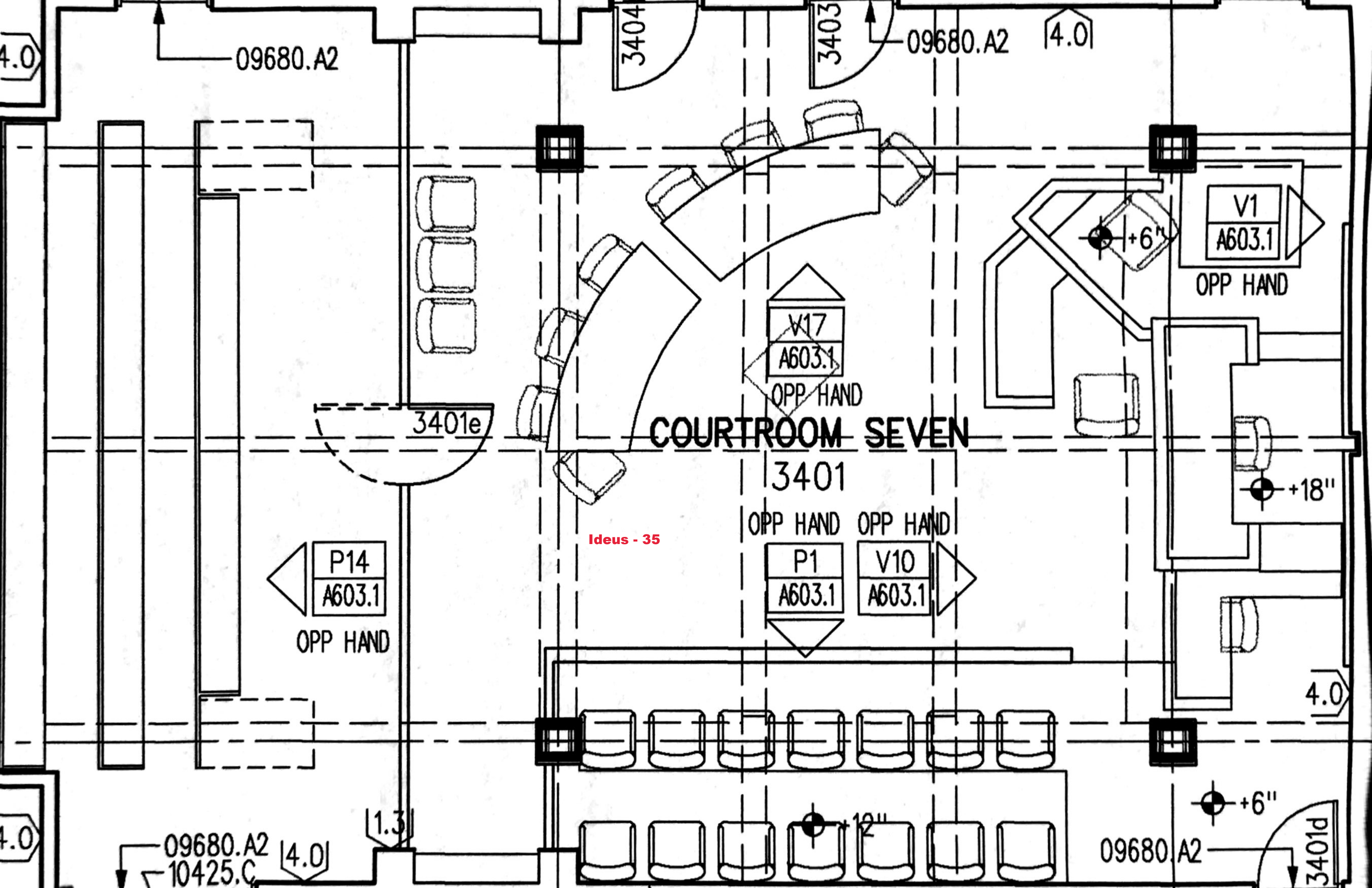
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COURTROOM SEVEN

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OPP HAND

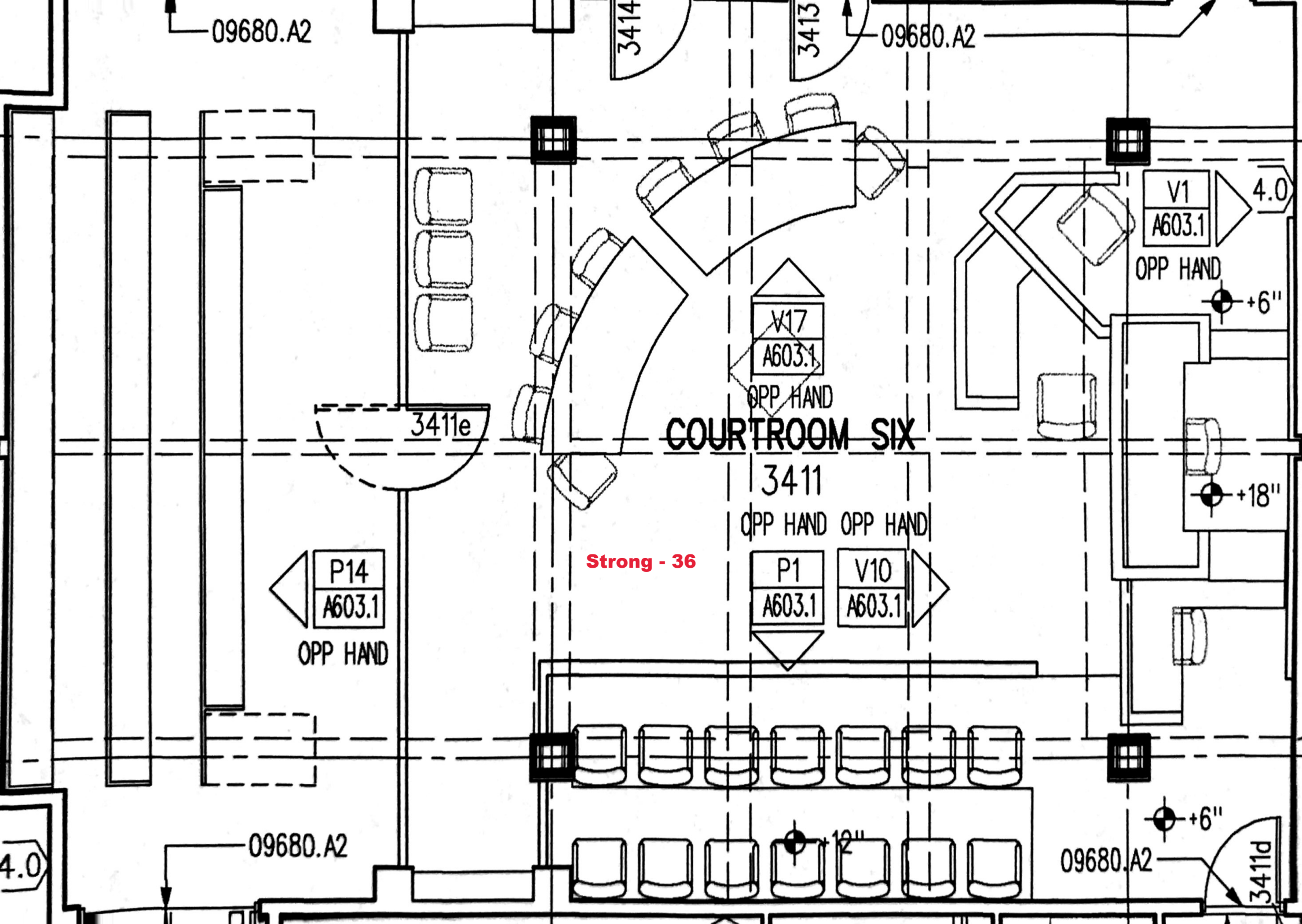
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COURTROOM SIX

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V10
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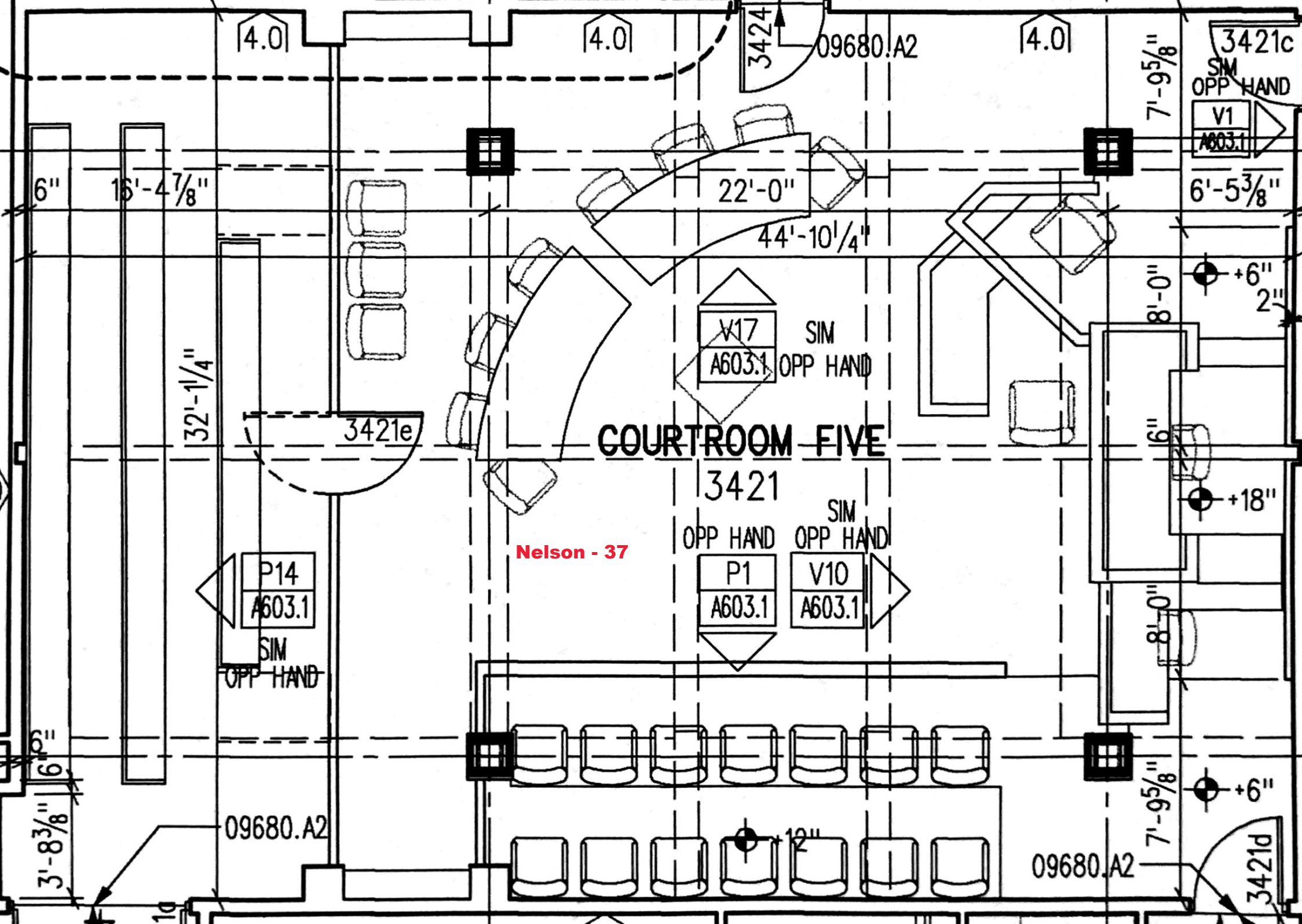
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COURTROOM FIVE

Nelson - 37

V17
A603.1
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OPP HAND

3421
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P1
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V10
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SIM
OPP HAND

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44'-10 1/4"

6'-5 3/8"

+6"
2"

32'-1 1/4"

8'-0"

6"

+18"

8'-0"

7'-9 5/8"

+6"

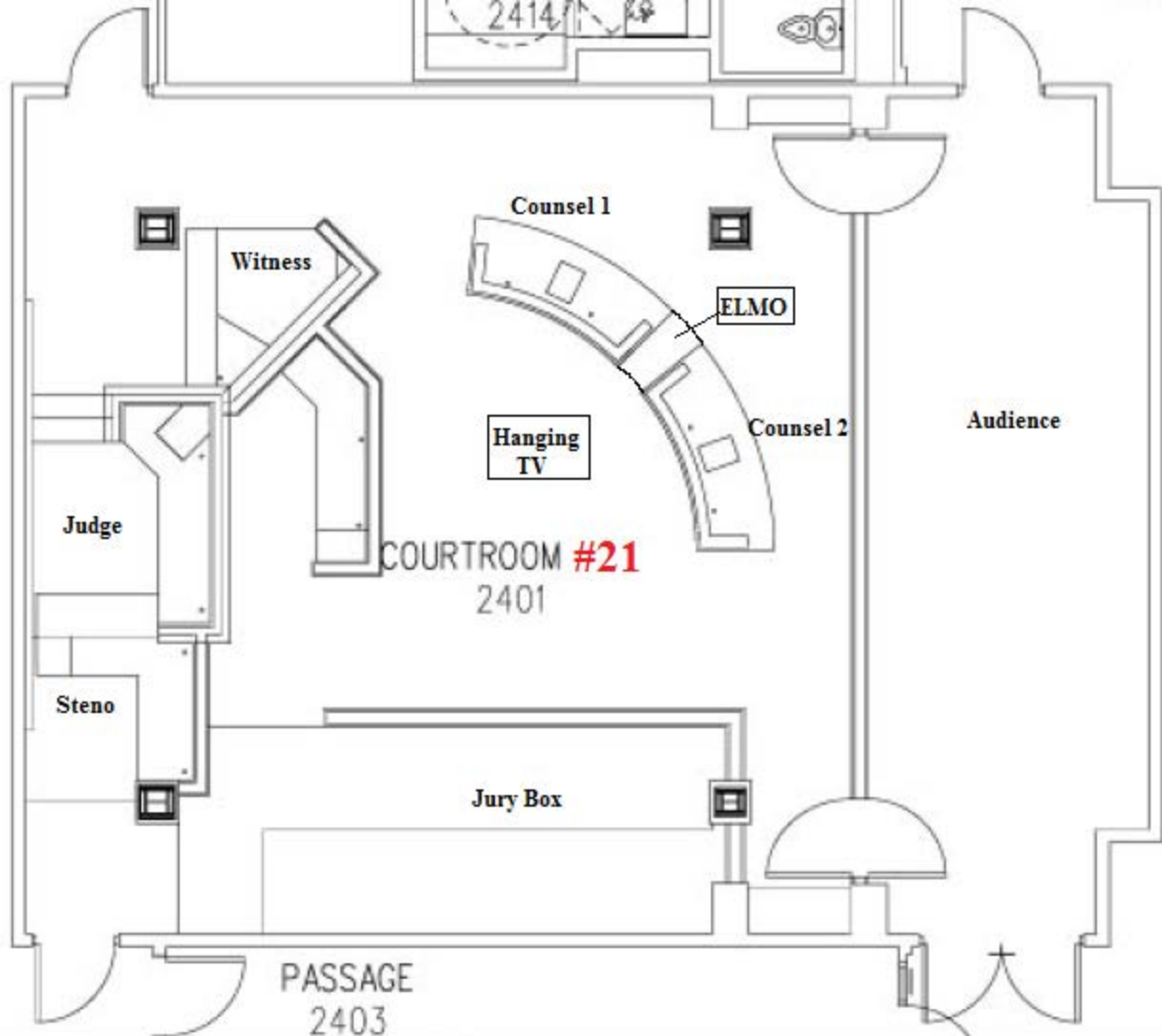
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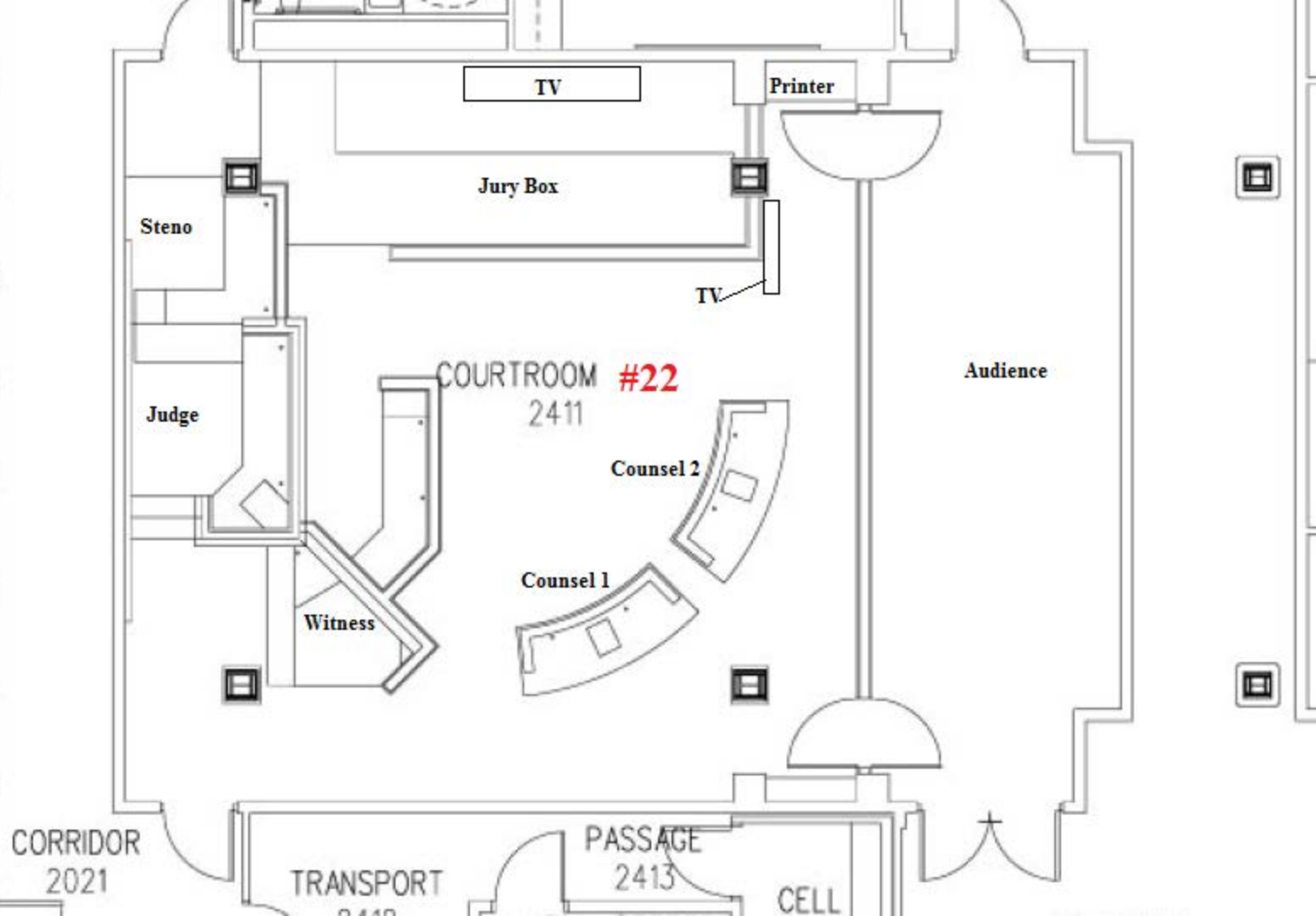
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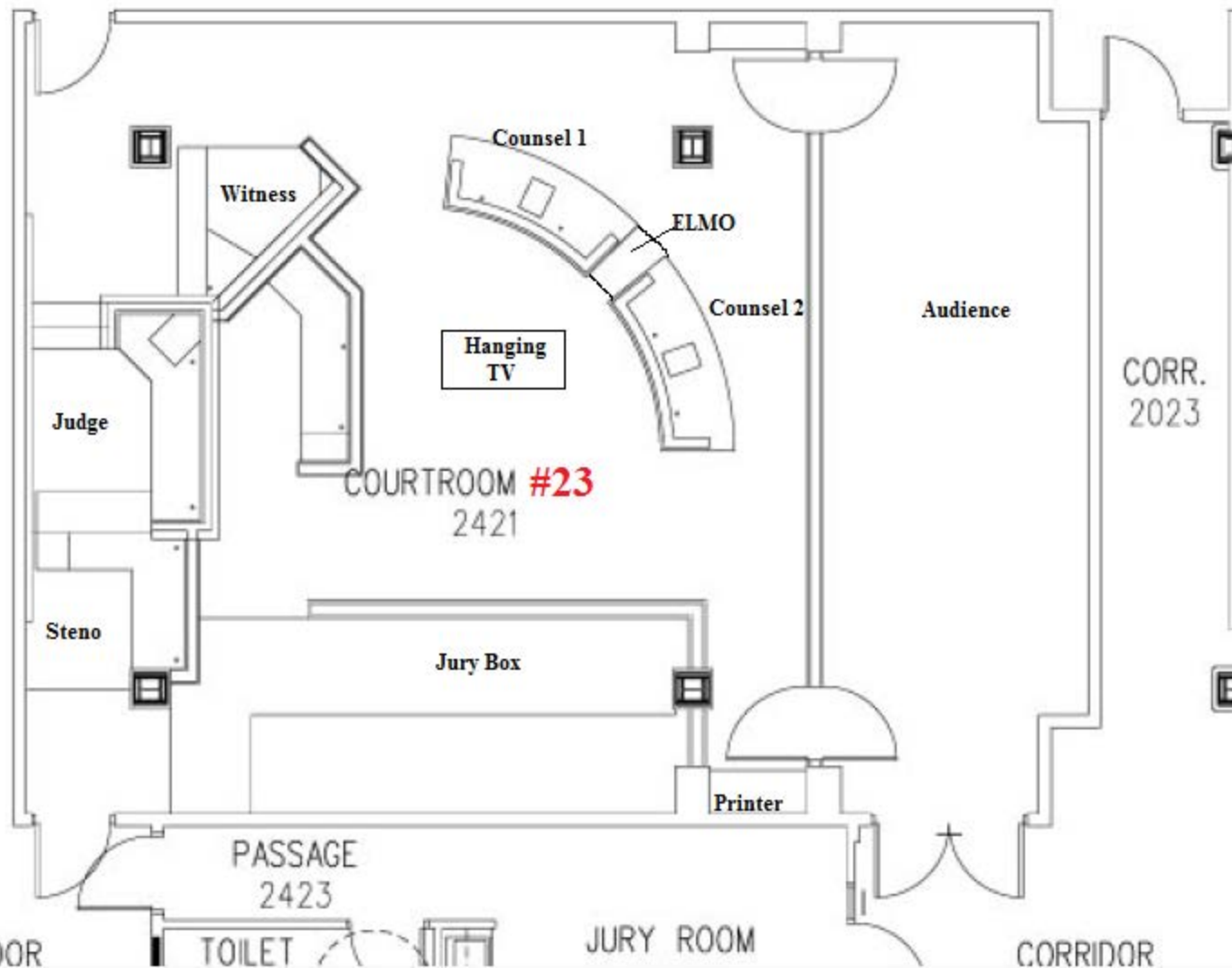
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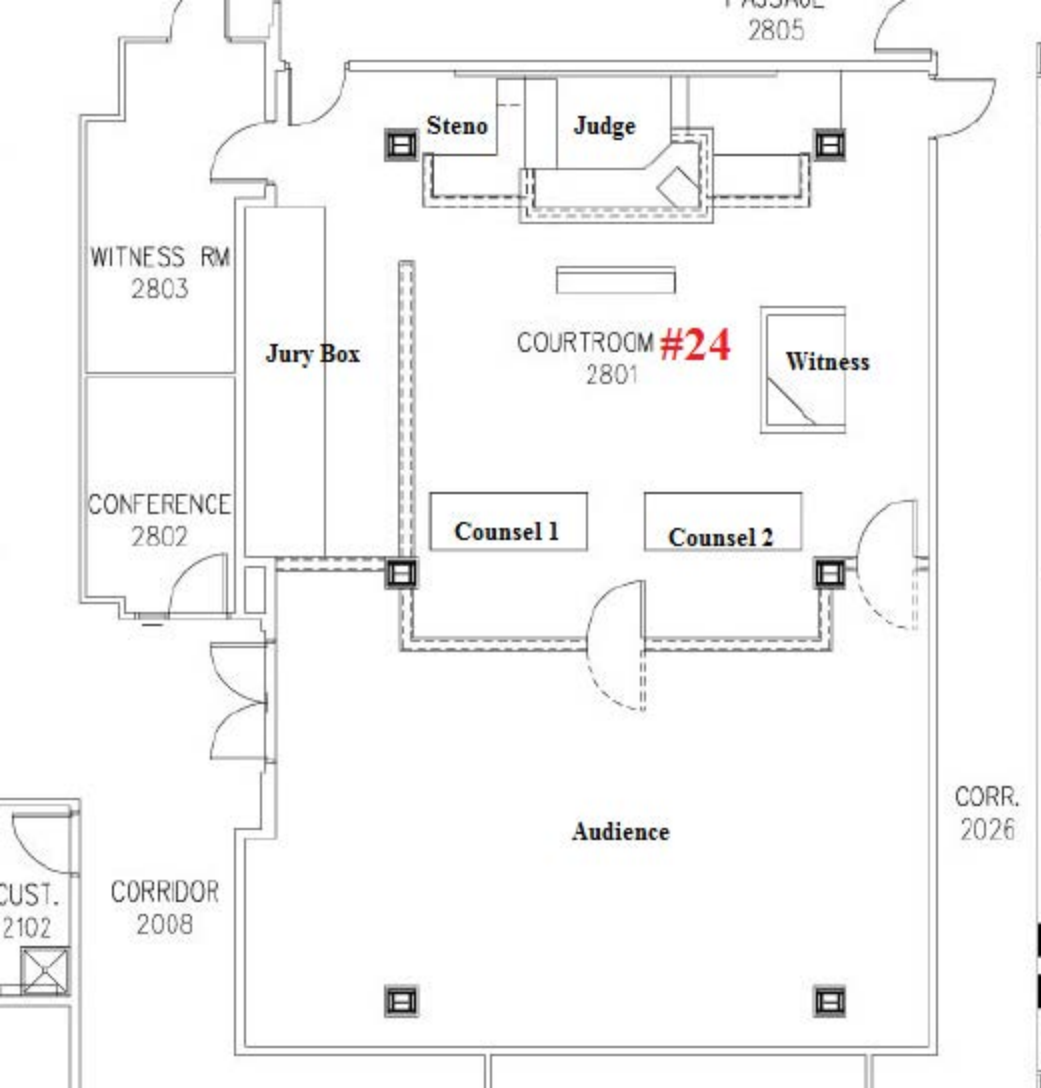
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+6"









PASSAGE
2805

Steno

Judge

WITNESS RM
2803

Jury Box

COURTROOM #24
2801

Witness

CONFERENCE
2802

Counsel 1

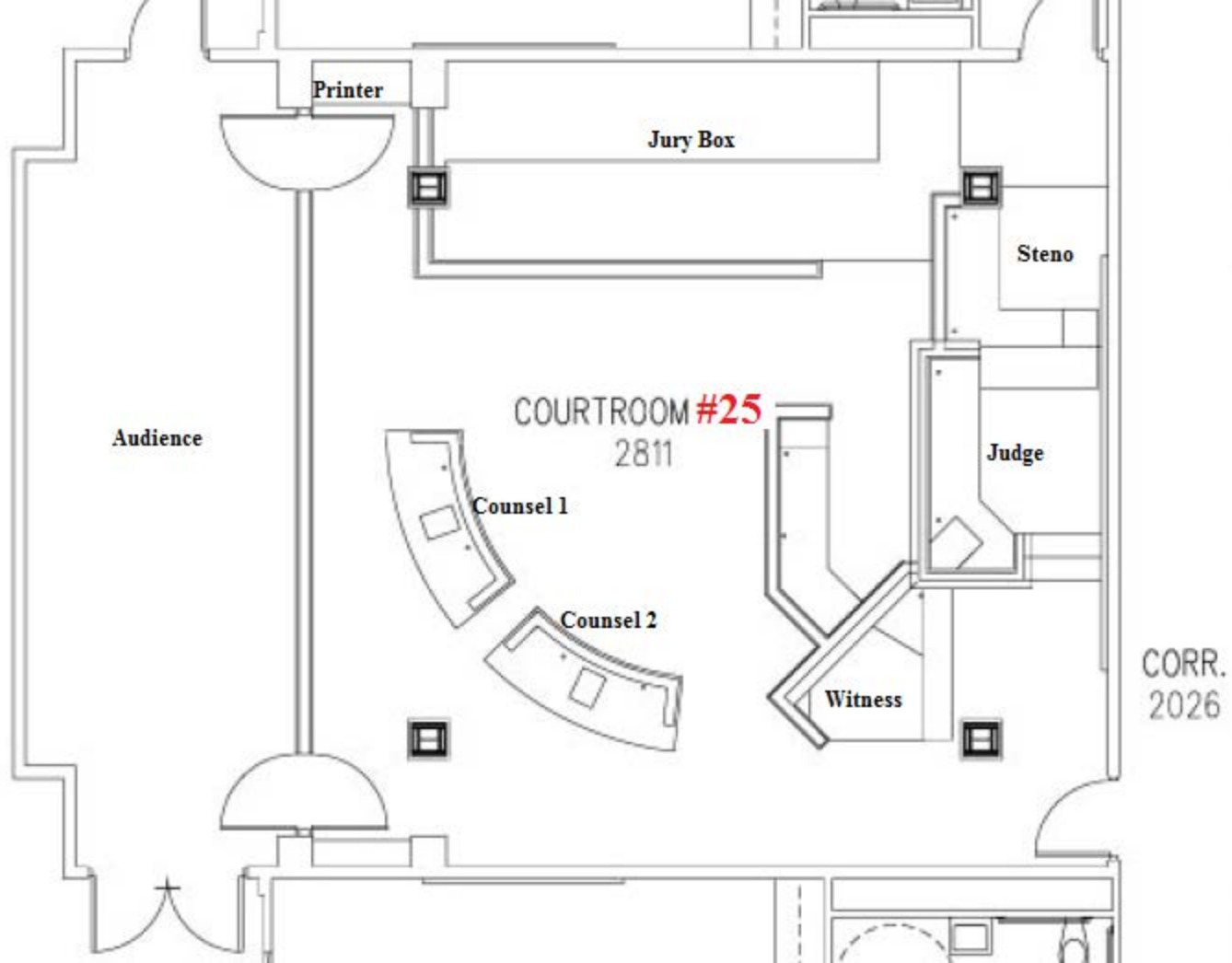
Counsel 2

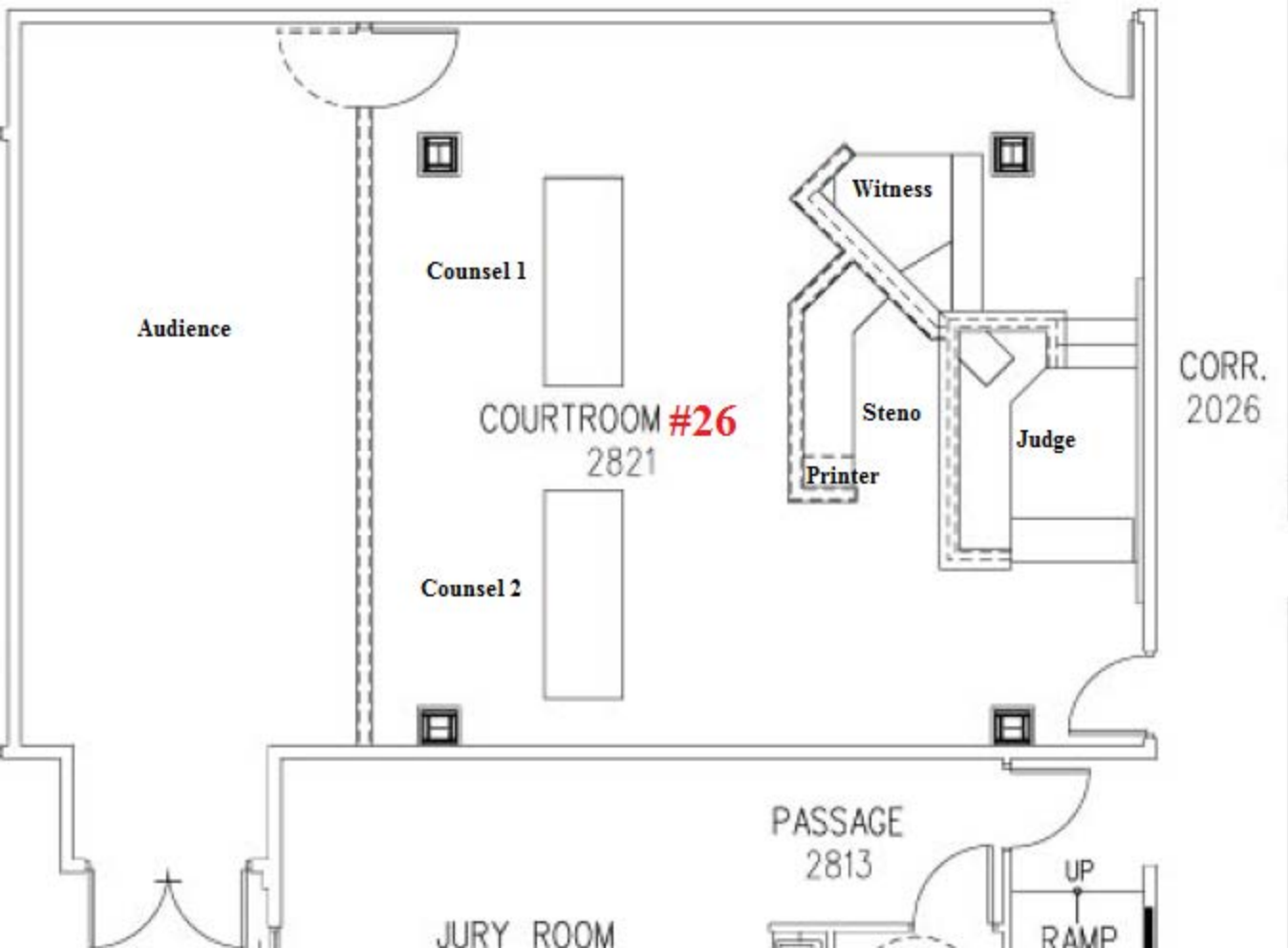
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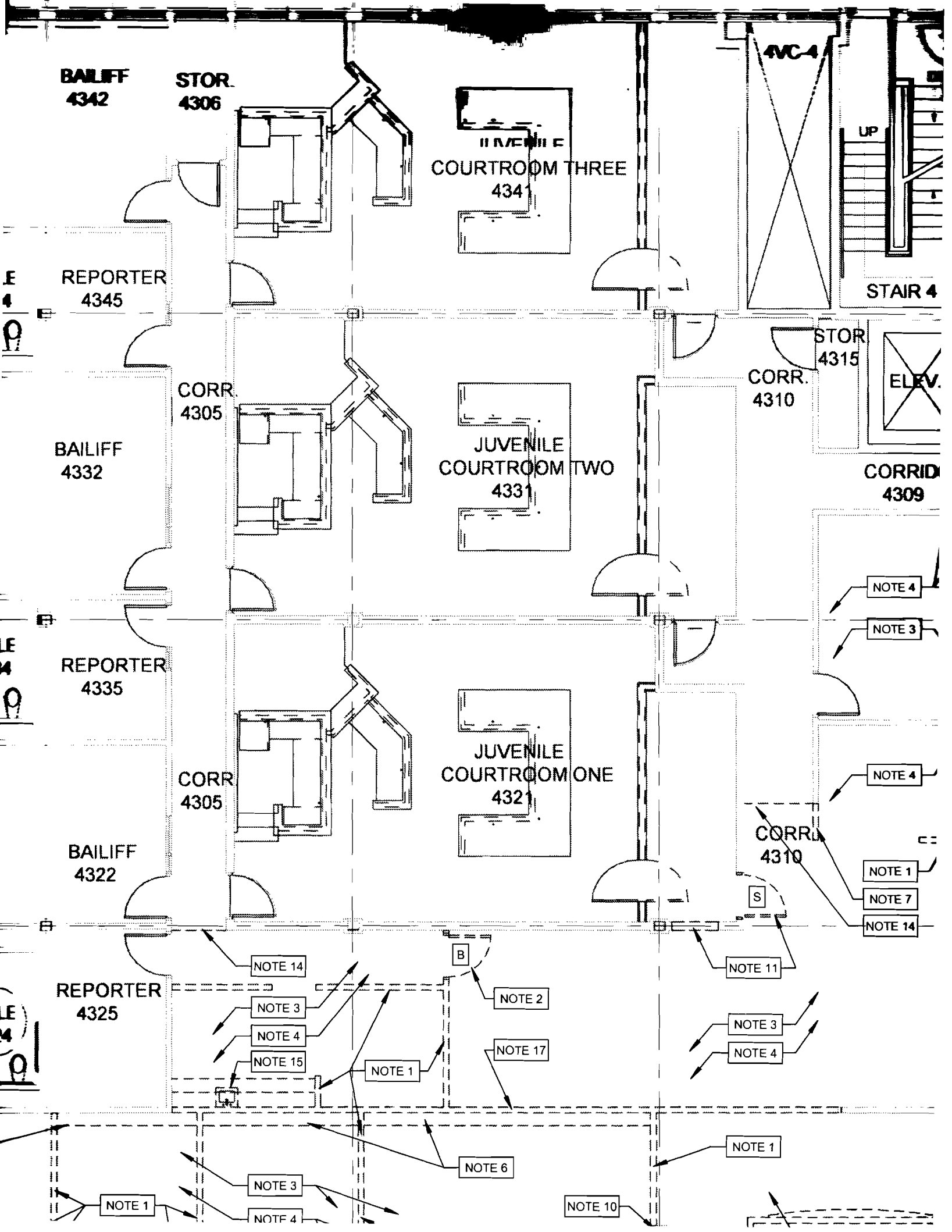
CORR.
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CORRIDOR
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BAILIFF
4342

STOR.
4306

JUVENILE
COURTROOM THREE
4341

434

UP

STAIR 4

REPORTER
4345

STOR.
4315

CORR.
4310

ELEV.

BAILIFF
4332

CORR.
4305

JUVENILE
COURTROOM TWO
4331

CORRIDOR
4309

REPORTER
4335

NOTE 4

NOTE 3

BAILIFF
4322

CORR.
4305

JUVENILE
COURTROOM ONE
4321

NOTE 4

CORRIDOR
4310

NOTE 1

NOTE 7

NOTE 14

REPORTER
4325

NOTE 14

B

NOTE 2

NOTE 11

NOTE 3

NOTE 4

NOTE 15

NOTE 1

NOTE 17

NOTE 3

NOTE 4

NOTE 1

NOTE 3

NOTE 4

NOTE 6

NOTE 10

NOTE 1

ADDENDUM #1
Issue Date: 04/27/17
Bid No. 17-130
HALL OF JUSTICE COURTROOM AUDIO REPLACEMENT (REBID)

Addenda are instruments issued by the Purchasing Department prior to the date for receipt of offers which will modify or interpret the specification document by addition, deletion, clarification or correction. Please acknowledge receipt of this addendum in the space provided in the Attribute Section.

Be advised of the following changes to the Specification and bidding documents:

1. Below is the current CISCO equipment and presenter information for the courtrooms:

Courtrooms 40 & 43: Cisco TelePresence SX80 no presenters (elmos)

Courtrooms 41 & 42: Cisco TelePresence Codec C40 no presenter (elmo)

Courtrooms 30, 31, 32, 33, 34, 35, 36, & 37: Cisco TelePresence SX80 and Presenters (elmos)

Courtroom 38: CISCO SX10 no Presenters (elmos)

Courtrooms 21 & 23: Presenter (elmo) no video conferencing

Courtrooms 22: Cisco TelePresence SX10 no presenter (elmo)

Courtrooms 24, 25, & 26: Audio Only no presenter or video conferencing

2. Is the room really only receiving back end equipment (Audio DSP, Amp, Power Conditioner)?

Yes, at this time.

3. What is the rackmount control controlling specifically?

Sound levels of audio channels and ability to switch channels on and off.

4. What is the 'mobile' lapel mic plugging into?

This would need to plug into the audio system through one of the existing microphone inputs.

5. The codec systems in the courtrooms are Cisco TelePresence SX80's running Software Version TC7.3.3.c84180a. The cameras are Cisco TelePresence Precision 60's.

All other terms, conditions and requirements of the request remain the same as originally indicated in the document or as modified on previous addenda.

Robert L Walla
Purchasing Agent

LANCASTER COUNTY

Employee Classification Act Requirements

WHEREAS, there is concern over the inappropriate competitive advantages in the public bidding process for local publicly funded construction and delivery service contracts resulting from the misclassification of individuals performing construction labor services as “independent contractors” rather than “employees”; such “independent contractors” are commonly referred to as “1099 workers” due to the IRS form they receive rather than a W-4 which an employee receives;

WHEREAS, this misclassification of such individuals as “independent contractors” rather than as “employees” eliminates any obligation to pay these individuals legally required minimum or overtime wages, to provide legally required workers’ compensation insurance, to make unemployment insurance payments, to pay legally required employment and payroll taxes, and to provide any other health, pension, or benefit such individuals would typically receive if properly classified as employees;

WHEREAS, this misclassification of individuals performing construction labor services for the contractor as “independent contractors” rather than “employees” is a violation of federal and state law, but is difficult to enforce once public construction or delivery service contracts have been bid, awarded, and entered into;

WHEREAS, the use of public funds to compensate contractors who unlawfully avoid their obligation to pay legally required minimum or overtime wages, to provide legally required workers’ compensation insurance, to make unemployment insurance payments, to pay legally required employment and payroll taxes, and to provide any other health, pension, or benefit is not in the public interest; and

WHEREAS, the Employee Classification Act, Neb. Rev. Stat. §§ 48-2901 to 48-2912 (effective July 15, 2010) provides that any contract entered into between a political subdivision and a contractor shall require that each contractor who performs construction or delivery service pursuant to the contract submit to the political subdivision an affidavit attesting that (1) each individual performing services for such contractor is properly classified under the Employee Classification Act, (2) such contractor has completed a federal I-9 immigration form and has

such form on file for each employee performing service, (3) such contractor has complied with Neb. Rev. Stat. § 4-114 requirements that the contractor register and use a federal immigration employment verification system to determine the work eligibility status of new employees physically performing services in the State of Nebraska, (4) such contractor has no reasonable basis to believe that any individual performing services for such contractor is an undocumented worker, and (5) as of the time of the contract, such contractor is not barred from contracting with the state or any political subdivision pursuant to § 48-2912 of the Employee Classification Act.

NOW, THEREFORE, Lancaster County adopts the following policy as to the bid and award of contracts to contractors for construction and delivery services with Lancaster County”

The Purchasing Agent shall immediately include in the County’s notice to bidders for construction contracts that all contractors submitting bids in response to the notice shall affirmatively certify to the Purchasing Agent that all individuals hired to perform construction or delivery labor services for the contractor under the contract shall be properly classified as employees and not as independent contractors if the individual does not meet the requirements of an independent contractor under federal and state law (including the requirements of the State of Nebraska Employee Classification Act), and that the contractor will comply with all legal obligations with respect to these employees (including, but not limited to, minimum and overtime pay, workers’ compensation, unemployment compensation, and payment of federal and state payroll taxes). The notice to bidders shall further provide that contractors may use affidavits required pursuant to the Employee Classification Act for this purpose, but that a failure to make the affirmative certification to the Purchasing Agent shall render the bidder ineligible for award of the contract.

The Purchasing Agent shall immediately include the following provisions in contracts for construction or delivery services:

(1) Contractor agrees that each individual performing services for the contractor shall be properly classified as an employee and not as an independent contractor if the individual does not meet the requirements of an independent contractor under the State of Nebraska’s Employee Classification Act and that contractor shall comply with all legal obligations with respect to the employee (including, but not limited to, minimum and overtime pay, workers’ compensation, unemployment compensation, and payment of federal and state payroll taxes).

(2) Contractor understands and agrees that failure to classify each individual hired to

perform services under the contract as an employee rather than as an independent contractor if the individual does not meet the requirements of an independent contractor under the State of Nebraska's Employee Classification Act and/or failure to comply with legal obligations with respect to the employee (including, but not limited to, minimum and overtime pay, workers' compensation, unemployment compensation, and payment of federal and state payroll taxes) shall be considered a breach of the contract and is a ground for rescission of the Contract by the County.

(3) Contractor additionally agrees to include the following provision in each subcontract entered into with a subcontractor as part of the contractor's contract with the County:

(a) Subcontractor agrees that each individual performing services for the subcontractor shall be properly classified as an employee and not as an independent contractor if the individual does not meet the requirements of an independent contractor under the State of Nebraska's Employee Classification Act and that subcontractor shall comply with all legal obligations with respect to the employee (including, but not limited to, minimum and overtime pay, workers' compensation, unemployment compensation, and payment of federal and state payroll taxes).

(b) Subcontractor understands and agrees that subcontractor's failure to properly classify individuals hired to perform services under the subcontract as employees and not as independent contractors if the individual does not meet the requirements of an independent contractor under the State of Nebraska's Employee Classification Act and/or failure to comply with legal obligation with respect to the employee (including, but not limited to, minimum and overtime pay, workers' compensation, unemployment compensation, and payment of federal and state payroll taxes) shall be considered a breach of the contract and is a ground for rescission of the subcontract with the contractor.

(4) Contractor agrees that if subcontractor fails to or is suspected of failing to properly classify each individual hired pursuant to the subcontract as an employee and not as an independent contractor if the individual does not meet the requirements of an independent contractor under the State of Nebraska's Employee Classification Act and/or fails to comply with legal obligations with respect to the subcontractor's employees, the contractor shall take appropriate corrective action including, but not limited to, reporting the suspected violation of

the State of Nebraska Employee Classification Act to the Nebraska Department of Labor or rescission of the subcontract by the contractor. Written notification of the corrective action shall be submitted to the Lincoln-Lancaster County Purchasing Department. Contractor understands and agrees that contractor's failure to take appropriate corrective action shall be considered a breach of the contractor's contract with the County and is a ground for rescission of the contract by the County.

(5) The County shall notify the Nebraska Department of Labor of any contractor or subcontractor it has determined is in breach of contract due to the terms of this order.

(6) Any contractor or subcontractor who shall have been determined by the Nebraska Department of Labor to have knowingly provided a false affidavit to the County under the State of Nebraska's Employee Classification Act shall be referred to the Purchasing Agent of the County who shall determine whether to declare such contractor or subcontractor an irresponsible bidder who shall be disqualified from receiving any business from the County for a stated period of time.

(7) This policy does not prohibit a contractor or subcontractor from hiring individuals to perform construction labor services as independent contractors, provided that the contractor's or subcontractor's use of such individuals as an independent contractor complies with the criteria found in subdivision 5 of Neb. Rev. Stat. § 48-604 and is otherwise valid under federal and state law and is not intended to circumvent lawful obligations under federal and state law or county contractual requirements.

INSURANCE INSTRUCTIONS AND EXAMPLES

The City of Lincoln, Lancaster County and the Lincoln/Lancaster County Public Building Commission recently updated the insurance requirements for services conducted on the premises. Please note that coverage amounts and other terms are now consistent for all three entities. Vendors must now provide a minimum of a Certificate of Accord and Endorsement for Additional Insured completed as shown in the attached Example documents. All companies which are not exempt from Workers Compensation insurance must also complete an endorsement as shown. Please make special note of the following:

Certificate of Liability Insurance – The Description of Operations and Certificate Holder boxes must be completed as shown in the example attached. Bid documents or Department Staff will specify which entity/s are to be listed. All other information including coverage amounts must also be completed as listed in the INSURANCE CLAUSE FOR ALL CITY OF LINCOLN, LANCASTER COUNTY, AND PUBLIC BUILDING COMMISSION CONTRACTS document. Failure to complete this document as required will result in a delay in getting contracts issued until the proper information has been received.

Additional Insured Endorsement – The “Name of Person or Organization” box must be completed as shown in the example attached. Bid documents or Department Staff will specify which entity/s are to be listed in this section. The Vendors Company Name and Policy Number must be completed by the Insurer in the space provided. Failure to complete this document as required will result in a delay in getting contracts issued until the proper information has been received.

Workers Compensation Endorsement - The “Schedule” section of the form must be completed as shown in the example attached. Bid documents or Department Staff will specify which entity/s are to be listed in this section. The Vendors Company Name, Policy Number and other information requested at the bottom of the page must be completed by the Insurer in the space provided. Failure to complete this document as required will result in a delay in getting contracts issued until the proper information has been received.

If you or your insurance carriers have questions regarding these requirements, please email Brienne at bcrooks@lincoln.ne.gov or call 402-441-7417.

Thank you.
City/County Purchasing

INSURANCE CLAUSE FOR ALL CITY OF LINCOLN, LANCASTER COUNTY AND PUBLIC BUILDING COMMISSION CONTRACTS

1. Insurance; Coverage

The contractor shall, prior to beginning work, provide proof of insurance coverage in a form satisfactory to the City/County/PBC, which shall not withhold approval unreasonably. The coverages and minimum levels required by this contract are set forth below and shall be in effect for all times that work is being done pursuant to this Contract. No work on the Project or pursuant to this Contract shall begin until all insurance obligations herein are met to the satisfaction of the City/County/PBC, which shall not unreasonably withhold approval. Self-insurance shall not be permitted unless consent is given by the City/County/PBC prior to execution of the Agreement. Deductible levels shall be provided in writing from the Contractor's insurer and will be no more than \$10,000.00 per occurrence.

1.1 Workers' Compensation

The Contractor shall provide proof of workers' compensation insurance of not less than minimum statutory requirements under the laws of the State of Nebraska and any other applicable State. The Contractor shall provide the City/County/PBC with an endorsement for waiver of subrogation. The contractor shall also be responsible for ensuring that all subcontractors have workers' compensation insurance for their employees before and during the time any work is done pursuant to this Contract.

1.2 Commercial General Liability

The Contractor shall provide proof of Commercial General Liability Insurance with the coverages and at the minimum limits set forth herein. These minimum limits can be met by primary and umbrella liability policies. Coverage shall include: Premises-Operations, Products/ Completed Operations, Contractual, Broad Form Property Damage, and Personal Injury and shall be no less than \$1,000,000 Each Occurrence and \$2,000,000 Aggregate. Such coverage shall be endorsed for the general aggregate to be on a **PER PROJECT** basis, and the contractor shall provide an additional insured endorsement acceptable to the City/County/PBC. The description of operations must state "Blanket coverage for all projects and operations of Contractor" or similar language that meets the approval of the City/County/PBC, which approval shall not be unreasonably withheld.

1.3 Automobile Liability

The Contractor shall provide proof of Automobile coverage, which shall include: Comprehensive Form, Owned, Hired and Non-Owned. Bodily Injury and Property Damage Combined Single Limit shall be at least \$1,000,000 Per Accident.

1.4 Builder's Risk Insurance (Required only if appropriate)

The Contractor shall purchase and maintain property insurance upon the entire work at the site as provided by Contract, unless the Contractor receives notice that the City/County/PBC has obtained a builder's risk policy for itself. Except to the extent recoverable by Contractor from another subcontractor, deductibles shall be the responsibility of the Contractor. In the event the Contractor procures the builder's risk policy herein, the Contractor shall provide an endorsement to the City/County/PBC, in a form approved by the City/County/PBC demonstrating additional insured coverage for the City/County/PBC. Approval of such endorsement shall not be unreasonably withheld by the City/County/PBC.

**Coverage required whenever work under contract involves construction or repair of a building structure or bridge.*

1.4.1 Waiver of Builder's Risk Insurance Carrier's Subrogation Rights

To the extent provided in the Contract, the Contractor and its Subcontractor(s) waive all rights of action and subrogation that the insurance company providing the builder's risk policy may have against each of them and/or the City/County/PBC, Architect, and the officers, agents and employees of any of them, for all claims, damages, injuries and losses, to the extent covered by such property insurance. Such waiver of subrogation shall be effective for such persons even though such persons would otherwise have a duty of indemnification or contribution, contractual or otherwise, and even though such persons did not pay the insurance premium directly or indirectly, and whether or not such persons had an insurable interest in any property damaged.

1.5 Pollution Liability (Required only if appropriate)

Contractors shall provide proof of pollution liability insurance arising out of all operations of the Contractors and subcontractors, due to discharge, dispersal, release, or escape of contaminants or pollutants into or upon land, the atmosphere or any watercourse or body of water with bodily injury and property damage limits of not less than \$1,000,000 per occurrence and \$2,000,000 annual aggregate for:

- 1) Bodily injury, sickness, disease, mental anguish or shock sustained by any person, including death;
- 2) Property damage including physical injury to or destruction of tangible property including the resulting loss of use thereof, clean-up costs, and the loss of use of tangible property that has not been physically injured or destroyed;
- 3) Defense including loss adjustment costs, charges and expenses incurred in the investigation, adjustment or defense of claims for such compensatory damages;
- 4) Definition of pollution conditions shall include asbestos, lead, and mold so that these risks are covered if caused by contractor/successful candidate's work or operations.
- 5) Coverage is required on an occurrence form.

**Coverage required whenever work under contract involves pollution risk to the environment.*

1.6 Professional Liability (Required only if appropriate)

Professional Liability Insurance covering damages arising out of negligent acts, errors, or omissions committed by Contractor in the performance of this Agreement, with a liability limit of not less than \$1,000,000 each claim. Contractor shall maintain this policy for a minimum of two (2) years after completion of the work or shall arrange for a two year extended discovery (tail) provision if the policy is not renewed. The intent of this policy is to provide coverage for claims arising out of the performance of professional Services under this contract and caused by any error, omission, breach or negligent act for which the Contractor.

**Required whenever service provider is required to be certified, licensed or registered by a regulatory entity and/or where the provider's judgment in planning and design could result in economic loss to City/County/PBC.*

1.7 Railroad Contractual Liability Insurance (Required only if appropriate)

If work is to be performed within 50 feet of any railroad property and affecting any railroad bridge or trestle, tracks, road beds, tunnel, underpass or railroad crossing. Contractual Liability Endorsement (ISO® form CG24170196 or newer) must be provided. The Contractor shall provide Railroad Protective Liability Insurance naming the affected railroad/s as insured with minimum limits for bodily injury and property damage of \$2,000,000 per occurrence, \$6,000,000 aggregate, or such other limits as required in the Special Provisions or by the affected railroad.

1.7.1 Railroad Protective Liability (Required only if appropriate)

If work is to be performed within 50 feet of any railroad property and affecting any railroad bridge or trestle, tracks, road beds, tunnel, underpass or crossing or otherwise required by the Special Provisions or applicable requirements of an affected railroad, the Contractor shall provide Railroad Protective Liability Insurance naming the affected railroad/s as insured with minimum limits for bodily injury and property damage of \$2,000,000 per occurrence, \$6,000,000 aggregate, or such other limits as required in the Special Provisions or by the affected railroad. The original of the policy shall be furnished to the railroad and a certified copy of the same furnished to the City/County/PBC Purchasing Department prior to any related construction or entry upon railroad premises by the Contractor or for work related to the Contract.

1.8 Errors and Omissions; Professional Liability; Cyber Insurance (Required only if appropriate)

The Contractor shall maintain in an amount not less than \$1,000,000 per claim and annual aggregate, covering all acts, errors, omissions, negligence, and including infringement of intellectual property (except patent and trade secret) in the performance of services for the City/County/PBC or on behalf of the City/County/PBC hereunder. Contractor's policy should also include network risk / cyber coverage (including coverage for unauthorized access, failure of security, breach of privacy perils, as well as notification costs and regulatory defense). Such insurance shall be maintained in force at all times during the term of the agreement and for a period of two years thereafter for services completed during the term of the agreement. The City/County/PBC shall be given at least 30 days' notice of the cancellation or expiration of the aforementioned insurance for any reason.

2. Additional Insured

An Additional Insured endorsement shall be provided to City/County/PBC naming City/County/PBC as additional insureds using ISO additional insured endorsement (CG20 10), edition date 11/85, or an equivalent (e.g. CG 2010, edition date 10/93, plus CG 20 37, edition date 10101), under the commercial general liability policy and automobile liability policy. Said insurance shall be written on an **OCCURRENCE** basis, and shall be **PRIMARY, with any insurance coverage maintained by the City/County/PBC being secondary or excess.**

3. Certificates

The Contractor shall provide certificates of insurance and endorsements evidencing compliance with these requirements. Upon request, the Contractor shall furnish a full and complete copy of any policy of insurance (other than workers' compensation), required by this Contract, to the City/County/PBC within a reasonable time, not to exceed thirty days. The certificates of insurance shall provide for at least thirty (30) days' firm written notice in the event of cancellation. Intent to notify is not acceptable. During the term of the Agreement and during the period of any required continuing coverages, the Contractor shall provide, prior to expiration of the policies, certificates and endorsements evidencing renewal insurance coverages. The parties agree that the failure of City/County/PBC to object to the form of a certificate and/or additional insured endorsement provided shall not constitute a waiver of this requirement.

4. Waiver of Builder's Risk Insurance Carrier's Subrogation Rights

To the extent provided in the Contract, the Contractor and its Subcontractor(s) waive all rights of action and subrogation that the insurance company providing the builder's risk policy may have against each of them and/or the City/County/PBC, Architect, and the officers, agents and employees of any of them, for all claims, damages, injuries and losses, to the extent covered by such property insurance. Such waiver of subrogation shall be effective for such persons even though such persons would otherwise have a duty of indemnification or contribution, contractual or otherwise, and even

though such persons did not pay the insurance premium directly or indirectly, and whether or not such persons had an insurable interest in any property damaged.

5. Risk of Loss

Except to the extent covered by the builder's risk insurance, the Contractor shall have the sole responsibility for the proper storage and protection of, and assumes all risk of loss of, any Subcontractor's Work and tools, materials, equipment, supplies, facilities, offices and other property at or off the Project site. The Contractor shall be solely responsible for ensuring each subcontractor shall take every reasonable precaution in the protection of all structures, streets, sidewalks, materials and work of other subcontractors. Contractor shall protect its Work from damage by the elements or by other trades working in the area.

6. Umbrella or Excess Liability

The Contractor may use an Umbrella, Excess Liability, or similar coverage to supplement the primary insurance stated above in order to meet or exceed the minimum coverage levels required by this Contract.

7. Minimum Scope of Insurance

All Liability Insurance policies shall be written on an "Occurrence" basis only. All insurance coverage are to be placed with insurers authorized to do business in the State of Nebraska and must be placed with an insurer that has an A.M. Best's Rating of no less than A:VII unless specific approval has been granted otherwise.

8. Indemnification

To the fullest extent permitted by law the Contractor shall indemnify, defend, and hold harmless the Owner, its elected officials, officers, employees, agents, consultants, and employees of any of them from and against claims, damages, losses and expenses, including but not limited to attorney fees, arising out of or resulting from performance of the Work, provided that such claim, damage, loss or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible or intangible property, including the Work itself, but only to the extent caused by the negligent, wrongful, or intentional acts or omissions of the Contractor, a subcontractor, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, regardless of whether or not such claim, damage, loss or expense is caused in part by the negligence of a party indemnified hereunder. In the event the claim, damage, loss or expense is caused in part by the negligence of a party indemnified hereunder, the indemnification by the Contractor shall be prorated based on the extent of the liability of the party indemnified hereunder. Such obligation shall not be construed to negate, abridge, or reduce obligations of indemnity which would otherwise exist as to a party or person described in this Section. Nothing herein shall be construed to be a waiver of sovereign immunity by the Owner.

9. Reservation of Rights

The City/County/PBC reserves the right to require a higher limit of insurance or additional coverages when the City/County/PBC determines that a higher limit or additional coverage is required to protect the City/County/PBC or the interests of the public. Such changes in limits or coverages shall be eligible for a change order or amendment to the Contract.

10. Sovereign Immunity

Nothing contained in this clause or other clauses of this Agreement/Contract shall be construed to waive the Sovereign Immunity of the City/County/PBC.



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME:	
	PHONE (A/C, No. Ext):	FAX (A/C, No):
	E-MAIL ADDRESS:	
	INSURER(S) AFFORDING COVERAGE	NAIC #
INSURED	INSURER A :	
	INSURER B :	
	INSURER C :	
	INSURER D :	
	INSURER E :	
	INSURER F :	

COVERAGES

CERTIFICATE NUMBER:

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:						EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COMP/OP AGG \$ \$
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS NON-OWNED AUTOS ONLY <input type="checkbox"/> HIRED AUTOS ONLY						COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
	UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$						EACH OCCURRENCE \$ AGGREGATE \$ \$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A				<input type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

City of Lincoln and/or Lancaster County and/or City of Lincoln/Lancaster County Public Building Commission are listed as additionally insured.

CERTIFICATE HOLDER**CANCELLATION**

City of Lincoln and/or
 Lancaster County and/or
 City of Lincoln/Lancaster County Public Building Commission
 555 South 10th Street
 Lincoln, NE 68508

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**ADDITIONAL INSURED – OWNERS, LESSEES OR
CONTRACTORS – SCHEDULED PERSON OR
ORGANIZATION**

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Name of Person or Organization:

City of Lincoln and/or Lancaster County and/or City of Lincoln/Lancaster County Public Building
Commission

(If no entry appears above, information required to complete this endorsement will be shown in the Declarations as applicable to this endorsement.)

A. Section II – Who Is An Insured is amended to include as an insured the person or organization shown in the Schedule, but only with respect to liability arising out of your ongoing operations performed for that insured.

B. With respect to the insurance afforded to these additional insureds, the following exclusion is added:

2. Exclusions

This insurance does not apply to "bodily injury" or "property damage" occurring after:

- (1) All work, including materials, parts or equipment furnished in connection with such work, on the project (other than service, maintenance or repairs) to be performed by or on behalf of the additional insured(s) at the site of the covered operations has been completed; or
- (2) That portion of "your work" out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as a part of the same project.

WAIVER OF OUR RIGHT TO RECOVER FROM OTHERS ENDORSEMENT

We have the right to recover our payments from anyone liable for an injury covered by this policy. We will not enforce our right against the person or organization named in the Schedule. (This agreement applies only to the extent that you perform work under a written contract that requires you to obtain this agreement from us.)

This agreement shall not operate directly or indirectly to benefit anyone not named in the Schedule.

Schedule

City of Lincoln and/or Lancaster County and/or City of Lincoln/Lancaster County Public Building Commission

Example

This endorsement changes the policy to which it is attached and is effective on the date issued unless otherwise stated.

(The information below is required only when this endorsement is issued subsequent to preparation of the policy.)

Endorsement Insured

Effective Policy No.

Endorsement No. Premium

Insurance Company

Countersigned by _____

INSTRUCTIONS TO BIDDERS

LANCASTER COUNTY, NEBRASKA

PURCHASING DIVISION

E-Bid

1. **BIDDING PROCEDURE**

- 1.1 Sealed bid, (formal and informal), subject to Instructions and General Conditions and any special conditions set forth herein, will be received in the office of the Purchasing Division, 440 So. 8th St., Lincoln, NE 68508, until the bid closing date and time indicated for furnishing Lancaster County, hereinafter referred to as "County", the materials, supplies, equipment or services shown in the electronic bid request.
- 1.2 Bidders shall use the electronic bid system for submitting bids and must complete all required fields. If you do not care to bid, please respond to the bid request and note your reason.
- 1.3 Identify the item you will furnish by brand or manufacturer's name and catalog numbers. Also furnish specifications and descriptive literature if not bidding the specific manufacturer or model as listed in the specifications.
- 1.4 Any person submitting a bid for a firm, corporation, or other organization must show evidence of his authority so to bind such firm, corporation, or organization.
- 1.5 Bids received after the time and date established for receiving bids will be rejected.
- 1.6 The Bidders and public are invited, but not required, to attend the formal opening of bids. At the opening, prices will be displayed electronically and/or read aloud to the public. The pricing is also available for immediate viewing on-line. No decisions related to an award of a contract or purchase order will be made at the opening.

2. **BID SECURITY**

- 2.1 Bid security, as a guarantee of good faith, in the form of a certified check, cashier's check, or Bidder's bond, may be required to be submitted with this bid document, as indicated on the bid.
 - 2.1.1 Bid security, if required, shall be in the amount specified on the bid. The bid security must be scanned and attached to the "Response Attachments" section of your response or it can be faxed to the Purchasing office at 402-441-6513. The original bid security should then be sent or delivered to the office of the Purchasing Division, 440 S. 8th St., Ste. 200, Lincoln, NE 68508 within three (3) days of bid closing.
 - 2.1.2 If bid security is not received in the Purchasing Division as stated above, the vendor may be determined to be non-responsive.
- 2.2 If alternate bids are submitted, only one bid security will be required, provided the bid security is based on the amount of the highest gross bid.
- 2.3 Such bid security will be returned to the unsuccessful Bidders when the award of bid is made.
- 2.4 Bid security will be returned to the successful Bidder(s) as follows:
 - 2.4.1 For single order bids with specified quantities: upon the delivery of all equipment or merchandise, and upon final acceptance by the County.
 - 2.4.2 For all other contracts: upon approval by the County of the executed contract and bonds.
- 2.5 County shall have the right to retain the bid security of Bidders to whom an award is being considered until either:
 - 2.5.1 A contract has been executed and bonds have been furnished.
 - 2.5.2 The specified time has elapsed so that the bids may be withdrawn.
 - 2.5.3 All bids have been rejected.
- 2.6 Bid security will be forfeited to the County as full liquidated damages, but not as a penalty, for any of the following reasons, as pertains to this bidding document:
 - 2.6.1 If the Bidder fails or refuses to enter into a contract on forms provided by the County, and/or if the Bidder fails to provide sufficient bonds or insurance within the time period as established in this bidding document.

3. **BIDDER'S REPRESENTATION**

- 3.1 Each Bidder by electronic signature and submitting a bid, represents that the Bidder has read and understands the bidding documents, the bid attributes, the bid attachments, and the bid has been submitted in accordance therewith.
- 3.2 Each Bidder for services further represents that the Bidder has examined and is familiar with the local conditions under which the work is to be done and has correlated the observations with the requirements of the bid documents.

4. **INDEPENDENT PRICE DETERMINATION**

- 4.1 By submitting this bid, the Bidder certifies that the prices in this bid have been arrived at independently, without consultation, communication or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other Bidder or with any competitor; unless otherwise required by law, the prices which have been quoted in this bid have not been knowingly disclosed by the Bidder prior to bid opening directly or indirectly to any other Bidder or to any competitor; no attempt has been made, or will be made, by the Bidder to induce any person or firm to submit, or not to submit, a bid for the purpose of restricting competition.

5. CLARIFICATION OF SPECIFICATION DOCUMENTS

- 5.1 Bidders shall promptly notify the Purchasing Agent or designee of any ambiguity, inconsistency or error which they may discover upon examination of the bidding documents.
- 5.2 Bidders desiring clarification or interpretation of the bidding documents for formal bids shall make a written request which must reach the Purchasing Agent or designee at least five (5) calendar days prior to the date and time for receipt of formal bids.
- 5.3 Changes made to the bidding documents will be issued electronically. All vendors registered for that bid will be notified of the addendum. Subsequent Bidders will only receive the bid with the addendum included.
- 5.4 Oral interpretations or changes to the bidding documents made in any manner other than written form, will not be binding on the County; and Bidders shall not rely upon such interpretations or changes.

6. ADDENDA

- 6.1 Addenda are instruments issued by the County prior to the date for receipt of bids which modify or interpret the bidding document by addition, deletion, clarification or correction.
- 6.2 Addenda notification will be made available to all registered vendors immediately via e-mail for inspection on-line.
- 6.3 No formal bid addendums will be issued later than forty-eight (48) hours prior to the date and time for receipt of formal bids, except an addendum withdrawing the invitation to bid, or an addendum which includes postponement of the bid.

7. ANTI-LOBBYING PROVISION

- 7.1 During the period between the advertised date and the contract award, Bidders, including their agents and representatives, shall not directly discuss or promote their bid with any member of the County Board or County staff except in the course of County-sponsored inquiries, briefings, interviews, or presentations, unless requested by the County.

8. BRAND NAMES

- 8.1 Wherever in the specifications or bid that brand names, manufacturer, trade name, or catalog numbers are specified, it is for the purpose of establishing a grade or quality of material only; and the term "or equal" is deemed to follow.
- 8.2 It is the Bidder's responsibility to identify any alternate items offered in the bid, and prove to the satisfaction of the County that said item is equal to, or better than, the product specified.
- 8.3 Bids for alternate items shall be stated in the appropriate space on the E-Bid form. Bidders MUST attach to its bid documents in the Vendor Attachment Section of the E-Bid, a statement identifying the manufacturer and brand name of each proposed alternate, plus a complete description of the alternate items including illustrations, performance test data and any other information necessary for an evaluation.
- 8.4 The Bidder must indicate any variances and explain by item number from the bidding document no matter how slight.
- 8.5 If variations are not stated in the bid, it will be assumed that the item being bid fully complies with the County's bidding documents.

9. DEMONSTRATIONS/SAMPLES

- 9.1 Bidders shall demonstrate the exact item(s) proposed within seven (7) calendar days from receipt of such request from the County.
- 9.2 Such demonstration can be at the County delivery location or a surrounding community.
- 9.3 If items are small and mailable, and the Bidder is proposing an alternate product, the Bidder shall supply a sample of the exact item. Samples will be returned at Bidder's expense after receipt by the County of acceptable goods. The Bidder must indicate how samples are to be returned.

10. DELIVERY (Non-Construction)

- 10.1 Each Bidder shall state on the bid the date upon which it can make delivery of all equipment or merchandise. Time required for delivery is hereby made an essential element of the bid.
- 10.2 The County reserves the right to cancel orders, or any part thereof, without obligation, if delivery is not made within the time(s) specified on the bid.
- 10.3 All bids shall be based upon **inside** delivery of the equipment or merchandise F.O.B. to the County at the location specified by the County, with all transportation charges paid.
- 10.4 At the time of delivery, a designated Lancaster County employee will sign the invoice/packing slip. The signature will only indicate that the order has been received and the items actually delivered agree with the delivery invoice. This signature does not indicate all items meet specifications, were received in good condition and/or that there is not possible hidden damage or shortages.

11. WARRANTIES, GUARANTEES AND MAINTENANCE

- 11.1 Copies of the following documents, if requested, shall accompany the bid proposal for all items being bid:
 - 11.1.1 Manufacturer's warranties and/or guarantees.
 - 11.1.2 Bidder's maintenance policies and associated costs.
- 11.2 As a minimum requirement of the County, the Bidder will guarantee in writing that any defective components discovered within a one (1) year period after the date of acceptance shall be replaced at no expense to the County. Replacement parts of defective components shall be shipped at no cost to the County. Shipping costs for defective parts required to be returned to the Bidder shall be paid by the Bidder.

12. ACCEPTANCE OF MATERIAL

- 12.1 All components used in the manufacture or construction of materials, supplies and equipment, and all finished materials, shall be new, the latest make/model, of the best quality, and the highest grade workmanship.
- 12.2 Material delivered under this bid shall remain the property of the Bidder until:
 - 12.2.1 A physical inspection and actual usage of the material is made and found to be acceptable to the County; and
 - 12.2.2 Material is determined to be in full compliance with the bidding documents and accepted bid.
- 12.3 In the event the delivered material is found to be defective or does not conform to the bidding documents and accepted bid, the County reserves the right to cancel the order upon written notice to the Bidder and return materials to the Bidder at Bidder's expense.
- 12.4 Awarded Bidder shall be required to furnish title to the material, free and clear of all liens and encumbrances, issued in the name of the Lancaster County, Nebraska, as required by the bidding documents or purchase orders.
- 12.5 Awarded Bidder's advertising decals, stickers or other signs shall not be affixed to equipment. Vehicle mud flaps shall be installed blank side out with no advertisements. Manufacturer's standard production forgings, stampings, nameplates and logos are acceptable.

13. BID EVALUATION AND AWARD

- 13.1 The electronic signature shall be considered an offer on the part of the Bidder. Such offer shall be deemed accepted upon issuance by the County of purchase orders, contract award notifications, or other contract documents appropriate to the work.
- 13.2 No bid shall be modified or withdrawn for a period of ninety (90) calendar days after the time and date established for receiving bids, and each Bidder so agrees in submitting the bid.
- 13.3 In case of a discrepancy between the unit prices and their extensions, the unit prices shall govern.
- 13.4 The bid will be awarded to the lowest responsive, responsible Bidder whose bid will be most advantageous to the County, and as the County deems will best serve the requirements and interests of the County.
- 13.5 The County reserves the right to accept or reject any or all bids; to request rebids; to award bids item-by-item, with or without alternates, by groups, or "lump sum"; to waive irregularities and technicalities in bids; such as shall best serve the requirements and interests of the County.
- 13.6 In order to determine if the Bidder has the experience, qualification, resources and necessary attributes to provide the quality workmanship, materials and management required by the plans and specifications, the Bidder may be required to complete and submit additional information as deemed necessary by the County. Failure to provide the information requested to make this determination may be grounds for a declaration of non-responsive with respect to the Bidder.
- 13.7 The County reserves the right to reject irregular bids that contain unauthorized additions, conditions, alternate bids, or irregularities that make the bid incomplete, indefinite or ambiguous.
- 13.8 Any governmental agency may piggyback on any contract entered into from this bid.

14. INDEMNIFICATION

- 14.1 The Bidder shall indemnify and hold harmless, to the fullest extent allowed by law, the County, its agents, officers, employees and representatives from and against all claims, demands, suits, actions, payments, liability, judgements and expenses (including court-ordered attorney's fees), arising out of or resulting from the performance of the contract that results in bodily injury, sickness, disease, death, civil rights liability, or injury to or destruction of tangible property, including the loss of use resulting therefrom, and that are caused in whole or in part by the Bidder, its employees, agents, any subcontractor, anyone directly or indirectly employed by them, or anyone for whose acts any of them may be liable. This section will not require the Bidder to indemnify or hold harmless the County for any losses, claims, damages and expenses arising out of or resulting from the sole negligence of the County, its agents, employees, or representatives.
- 14.2 In any and all claims against the County or any of its members, officers or employees by an employee of the Bidder, any subcontractor, anyone directly or indirectly employed by any of them or by anyone for whose acts made by any of them may be liable, the indemnification obligation under paragraph 14.1 shall not be limited in any way by any limitation of the amount or type of damages, compensation or benefits payable by or for the Bidder or any subcontractor under worker's compensation acts, disability benefit acts or other employee benefit acts.

15. TERMS OF PAYMENT

- 15.1 Unless stated otherwise, the County will begin processing payment within thirty (30) calendar days after all labor has been performed and all equipment or other merchandise has been delivered, and all such labor and equipment and other materials have met all contract specifications.

16. LAWS

- 16.1 The laws of the State of Nebraska shall govern the rights, obligations, and remedies of the parties under this bid and any contract reached as a result of this process.
- 16.2 Bidder agrees to abide by all applicable local, state and federal laws and regulations concerning the handling and disclosure of private and confidential information concerning individuals and corporations as to inventions, copyrights, patents and patent rights.
- 16.3 The Bidder agrees to hold the County harmless from any claims resulting from the Bidder's unlawful disclosure or use of private or confidential information.

17. EQUIPMENT TAX ASSESSMENT

- 17.1 Any bid for public improvement shall comply with Nebraska Revised Statutes 77-1323 and 77-1324. Indicating; every person, partnership, limited liability company, association or corporation furnishing labor or material in the repair, alteration, improvement, erection, or construction of any public improvement shall sign a certified statement which will accompany the contract. The certified statement shall state, stating that all equipment to be used on the project, except that acquired since the assessment date, has been assessed for taxation for the current year, giving the county where assessed.

18. AFFIRMATIVE ACTION

- 18.1 Each Bidder agrees that it will not discriminate against any employee or applicant for employment because of race, color, religion, sex, national origin, ancestry, disability, age, or marital status.
- 18.2 The successful Bidder will be required to comply with the provisions of the County's Affirmative Action Policy.
- 18.3 The Equal Opportunity Officer will determine compliance or non-compliance with the County's Affirmative Action Policy upon a complete and substantial review of successful Bidder's equal opportunity policies, procedures and practices.
- 18.4 The County provides equal opportunity for all Bidders and encourages minority businesses, women's businesses and locally owned business enterprises to participate in our bidding process.

19. INSURANCE

- 19.1 All Bidders shall take special notice of the insurance provisions required for all County contracts (see *Insurance Clause for All County Contracts*).

20. EXECUTION OF CONTRACT

- 20.1 Depending on the type of service provided, one of the following methods will be employed. The method applicable to this contract will be checked below:
 - a. **PURCHASE ORDER**, unless otherwise noted.
 - 1. This contract shall consist of a Lancaster County Purchase Order.
 - 2. A copy of the Bidder's bid response (or referenced bid number) attached and that the same, in all particulars, becomes the contract between the parties hereto: that both parties thereby accept and agree to the terms and conditions of said bid documents.
 - b. **CONTRACT**, unless otherwise noted.
 - 1. County will furnish of the Contract to the successful Bidder who shall prepare attachments as required. Insurance as evidenced by a Certificate of Insurance (as required), surety bonds properly executed (as required), and Contract signed and dated.
 - 2. The prepared documents shall be returned to the Purchasing Office within 10 days (unless otherwise noted).
 - 3. The County will sign and date the Contract and submit the Contract to the County Board of Commissioners for approval and signature.
 - 4. Upon approval and signature, the County will return one copy to the successful Bidder.

21. TAXES AND TAX EXEMPTION CERTIFICATE

- 21.1 The County is generally exempt from any taxes imposed by the State or Federal Government. A Tax Exemption Certificate will be provided as applicable.

22. E-VERIFY

- 22.1 In accordance with Neb. Rev. Stat. 4-108 through 4-114, the contractor agrees to register with and use a federal immigration verification system, to determine the work eligibility status of new employees performing services within the state of Nebraska. A federal immigration verification system means the electronic verification of the work authorization program of the Illegal Immigration Reform and Immigrant Responsibility Act of 1996, 8 U.S.C. 1324 a, otherwise known as the E-Verify Program, or an equivalent federal program designated by the United States Department of Homeland Security or other federal agency authorized to verify the work eligibility status of a newly hired employee pursuant to the Immigration Reform and Control Act of 1986. The Contractor shall not discriminate against any employee or applicant for employment to be employed in the performance of this section pursuant to the requirements of state law and 8 U.S.C.A 1324b. The contractor shall require any subcontractor to comply with the provisions of this section. For information on the E-Verify Program, go to www.uscis.gov/everify.

In furtherance of Neb. Rev. Stat. §84-712 et seq., all proposals or responses received may be subject to a public records request. Responses to public records requests may include the entire proposal or response. Bidders must request that proprietary information be excluded from the posting. The bidder must identify the proprietary information, mark the proprietary information according to state law, and submit the proprietary information in a separate container or envelope marked conspicuously in black ink with the words "PROPRIETARY INFORMATION". The bidder must submit a detailed written showing that the release of the proprietary information would give a business advantage to named business competitor(s) and explain how the named business competitor(s) will gain an actual business advantage by disclosure of information. The mere assertion that information is proprietary or that a speculative business advantage might be gained is not sufficient. (See Attorney General Opinion No. 92068, April 27, 1992) THE BIDDER MAY NOT ASSERT THAT THE ENTIRE PROPOSAL IS PROPRIETARY. COST PROPOSALS WILL NOT BE CONSIDERED PROPRIETARY AND ARE A PUBLIC RECORD IN THE STATE OF NEBRASKA. The City and/or County will then determine, in its discretion, if the interests served by nondisclosure outweighs any public purpose served by disclosure. (See Neb. Rev. Stat. § 84-712.05(3)) The Bidder will be notified of the agency's decision. Absent a City and/or County determination that information is proprietary, the City and/or County will consider all information a public record subject to release regardless of any assertion that the information is proprietary. If the agency determines it is required to release proprietary information, the bidder will be informed. It will be the bidder's responsibility to defend the bidder's asserted interest in nondisclosure. To facilitate such public postings, with the exception of proprietary information, the City of Lincoln and/or Lancaster County reserves a royalty-free, nonexclusive, and irrevocable right to copy, reproduce, publish, post to a website, or otherwise use any contract, proposal, or response to this RFP for any purpose, and to authorize others to use the documents. Any individual or entity awarded a contract, or who submits a proposal or response to this bid/RFP, specifically waives any copyright or other protection the contract, proposal, or response to the bid/RFP may have; and, acknowledges that they have the ability and authority to enter into such waiver. This reservation and waiver is a prerequisite for submitting a proposal or response to this RFP, and award of a contract. Failure to agree to the reservation and waiver will result in the proposal or response to the bid/RFP being found nonresponsive and rejected. Any entity awarded a contract or submitting a proposal or response to the bid/RFP agrees not to sue, file a claim, or make a demand of any kind, and will indemnify and hold harmless the City and/or County and its employees, volunteers, agents, and its elected and appointed officials from and against any and all claims, liens, demands, damages, liability, actions, causes of action, losses, judgments, costs, and expenses of every nature, including investigation costs and expenses, settlement costs, and attorney fees and expenses, sustained or asserted against the City and/or County, arising out of, resulting from, or attributable to the releasing of the contract or the proposals and responses to the RFP, awards, and other documents in accordance with the state public records laws.

**Advertise 2 times
Wednesday, April 19, 2017
Wednesday, April 26, 2017**

**City of Lincoln/Lancaster County
Purchasing Division
NOTICE TO BIDDERS**

Sealed bids will be received by the Purchasing Agent of the City of Lincoln/Lancaster County, Nebraska BY ELECTRONIC BID PROCESS until: **12:00 pm, Wednesday, May 3, 2017** for providing the following:

**Hall of Justice Courtroom Audio Replacement (REBID)
Bid No. 17-130**

A pre-bid meeting will be held Tuesday, April 25, 2017 at 12:00 p.m., at the Hall of Justice, 575 South 10th Street, Lincoln, NE, 4th Floor, Juvenile Court Lobby. All interested Vendors are strongly encouraged to attend.

Bidders must be registered on the City/County's E-Bid site in order to respond to the above Bid. To register go to: lincoln.ne.gov (type: e-bid - in search box, then click "Supplier Registration").

[Questions concerning this bid process may be directed to City/County Purchasing at \(402\) 441-8103 or \[purchasing@lincoln.ne.gov\]\(mailto:purchasing@lincoln.ne.gov\)](#)