

MARCIA A. LECLERC
MAYOR

TOWN OF EAST HARTFORD

740 Main Street

East Hartford, Connecticut 06108

(860) 291-7270

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PURCHASING DEPARTMENT

WWW.EASTHARTFORDCT.GOV

TOWN OF EAST HARTFORD, CT INVITATION TO BID

BID #15-23

RE: Supply and Install a Audio Video System for Raymond Library

Proposals will be received at the Office of the Purchasing Agent, Town Hall,
740 Main Street, East Hartford, Connecticut, 06108 until Wednesday, May 13, 2015
at 11 a.m. at which time they will be publicly opened and recorded.

There will be a **Mandatory Pre-Bid Conference** at Raymond Library, 840 Main
Street, East Hartford, CT 06108 on Wednesday, May 6, 2014 at 10:00 a.m.

Information and Specifications are available at the above office or on the Town of
East Hartford bid's website at **<http://www.easthartfordct.gov/bids>**

The right is reserved to reject any or all bids when such action is deemed to be in the
best interest of the Town of East Hartford, Connecticut

Michelle A. Enman
Purchasing Agent
(860) 291-7271



TOWN OF EAST HARTFORD, CONNECTICUT

STANDARD INSTRUCTIONS FOR BIDDERS

1. Sealed bid proposals will be received by the purchasing agent until the date and time on the title sheet. **Bids received later than the date and time specified will not be considered and will be returned unopened.**
2. Bids are to be returned to the Purchasing Department with the bid number prominently indicated on the mailing envelope. The name and address of the bidder should appear in the upper left hand corner of the envelope. **Bids will not be accepted via fax or e-mail.**
3. All proposals will be opened and read publicly and are subject to public inspection. Bidders may be present or be represented at all openings. Bid results are mailed to all responding bidders.
4. Municipalities are exempt from any sale, excise or federal taxes. Bid prices must be exclusive of taxes and will be so construed.
5. The Town of East Hartford reserves the right to reject any or all bids or any part of all bids and to waive any informality when such action is in the best interest of the Town. The Town also reserves the right to extend by mutual consent an awarded bid when such action is in its best interest.
6. Bidders should familiarize themselves with the items and/or conditions set forth in the bid specifications. Failure by the bidder to inform himself will not be accepted as an excuse from fulfillment of the bid specifications.
7. All vendors doing business with the Town certify upon acceptance of a bid by virtue of their signature on that bid, that they have read, understood and will comply with the section of the Town's updated plan of affirmative action and equal opportunity relating to contractual and purchasing procedures - section VIII dated 1/88. Vendor agrees to cooperate fully should the Town choose to audit this compliance.
8. In case of an error in the extension or addition of prices, the unit price will govern. The Town will not be subject to any price increases after a bid award if not part of the original bid terms.
9. The Town reserves the right to increase or decrease quantities listed in order to stay within the allocated funding at time of bid opening.
10. The purchasing department has the obligation to accept the lowest responsible bid which is in the Town's best interest. Factors include, but are not limited to, price, compliance to specifications, quality offered, freight costs, delivery time, past performance, standardization of current equipment, financial resources, technical qualifications, equipment and experience.

11. Bidders shall state in writing and attach to the bid, any conditions/exceptions that are part of the bid price. Comments to the effect “see literature” will not be acceptable.
12. Any manufacturers names, trade names, brand names or catalog numbers used in the specifications are there for the purpose of establishing and describing general performance and quality levels. Such references are not intended to be restrictive and bids are invited on these and approved equal brands or products of any manufacturer.
13. The Town’s competitive bidding process is not a means for competitors to obtain private/proprietary information that is not otherwise normally available. Such information relates to a bidder’s financial records and responsibility, test data, manufacturing drawings, formulas and processes. To promote competition and protect valid interests this type of information/data will remain confidential.
14. All bidder questions shall be directed to the Purchasing Agent. Procedural and clarification questions will be answered appropriately. Questions that require an answer that will in effect change/alter the intent of the specifications will only be answered in writing to all bidders by a bid addendum.
15. Awarded bidders are responsible for obtaining all necessary permits as required by OSHA, Federal, State and/or Town regulations. Town permits will be issued at no cost.
16. Alternate proposals will not be considered unless specifically called for in the bid.
17. Prices shall include packing, transportation and delivery charges F.O.B. to East Hartford/delivered unless specifically noted otherwise.
18. Bidder declares that the proposal is not made in connection with any other bidder submitting a proposal for the same bid and is in all respects fair and without collusion or fraud.
19. Cash discounts may be offered by bidder for prompt payment of bills, but such cash discount will not be taken into consideration in determining the awarded low bidder except in the case of tie bids and then only provided such discount is based on payment of invoice not less than fourteen (14) days after satisfactory delivery and/or receipt of invoice, whichever is later.
20. The Town will not award a bid to any bidder who owes a delinquent tax to the Town. Bidders certify by virtue of their signature on the bid sheet that neither the bidder nor any business or corporation which the Bidder owns an interest is delinquent in tax obligations to the Town. The purchasing department will verify that no delinquent taxes are owed before any bid is awarded.
21. Please include a corporate resolution with your submittal. Sample formats for Corporations and Professional Corporations, Limited Liability Company and Partnerships (including Limited Partnership and Limited Liability Partnership) are attached in this packet.

22. The bidding entity is required to provide evidence from the Connecticut Secretary of State that they are in good standing and qualified to conduct business in the State of Connecticut.
23. Shipping costs will be the responsibility of the bidder.

A CERTIFICATE OF INSURANCE WILL ONLY BE REQUIRED OF THE AWARDED BIDDER

INSURANCE INDEMNIFICATION CLAUSE

The Town of East Hartford, CT is to be named as an “**additional insured**” and an additional insured policy endorsement must be submitted with the certificate of insurance and the nature of the project is to be stated on the certificate.

INDEMNIFICATION

Contractor agrees to defend, indemnify and hold the Town of East Hartford harmless against and from any and all claims by or on behalf of any person arising from or in connection with:

A: Any act, error, omission, negligence or fault of contractors or any of its agents, servants, employees and sub-contractors.

B: Any accident, injury or damage whatsoever caused to any person occurring during the performance of this contract.

Further, the contractor agrees to defend, indemnify and hold harmless the Town of East Hartford against and from all reasonable costs, counsel fees, expenses and liabilities incurred in or with respect to any such claim and any action or proceeding brought thereon; and in any case any action or proceeding shall be brought against the contractor by reason of any such claim, contractor upon notice from the Town of East Hartford agrees to resist and defend such action proceeding, unless contractor causes the same to be discharged and satisfied.

INSURANCE REQUIREMENTS

A. GENERAL REQUIREMENTS

The **CONTRACTOR** shall be responsible for maintaining insurance coverage in force for the life of this contract of the kinds and adequate amounts to secure all of the **CONTRACTOR’S** obligations under this contract with an insurance company(ies) with an AM Best Rating of A-VII or better licensed to write such insurance in the State of Connecticut and acceptable to the Town of East Hartford.

The insurer shall provide the Town of East Hartford with **Certificates of Insurance signed by an authorized representative of the insurance CONTRACTOR(ies)** prior to the performance of this contract describing the coverage and providing that the insurer shall give the Town of East Hartford written notice at least thirty (30) days in advance of any termination, expiration, or any and all changes in coverage.

Such insurance or renewals or replacements thereof shall remain in force during the **CONTRACTOR’S** responsibility under this contracts.

The **CONTRACTOR** at the **CONTRACTOR’S** own cost and expense , shall procure and maintain all insurance required and shall name the Town of East Hartford as Additional Insured on all contracts, except Workers’ Compensation and Professional Errors & Omissions coverage’s.

B. SPECIFIC REQUIREMENTS:

1) Workers' Compensation Insurance

The **CONTRACTOR** shall provide Statutory Workers' Compensation Insurance, including Employer's Liability with Limits of:

\$100,000 Each Accident
\$500,000 Disease, Policy Limit
\$100,000 Disease, Each Employee

2) Commercial General Liability Insurance

The **CONTRACTOR** shall carry Commercial General Liability Insurance (Insurance Services Office Incorporated Form CG-0001 or equivalent). As per occurrence limit **\$1,000,000** is required. The Aggregate Limit will be not less than **\$2,000,000**. Any deviations from the standard unendorsed form will be noted on the Certificate of Insurance.

3) Business Automobile Liability Insurance

The **CONTRACTOR** shall carry Business Automobile Liability Insurance (Insurance Services Office Incorporated Form CA-00001 or equivalent). A per occurrence limit of **\$1,000,000** is required. "Auto Auto" (symbol 1 or equivalent) is required. Any deviations from the standard unendorsed form will be noted on the Certificate of Insurance.

4) Umbrella Liability Insurance

The Town reserves the right to require the **CONTRACTOR** to carry an umbrella policy up to
\$5,000,000

C. OTHERS: PROFESSIONAL SERVICES - ARCHITECTS, ENGINEERS, ET AL.

Shall carry Errors & Omissions coverage in the amount \$1,000,000 per occurrence for all professional services contracts only. If the insurance coverage is written on a claims made basis, an extended reporting period of at least 3 years after substantial completion of the project is required.

The Town reserves the right to amend amounts of coverage required and type of coverage provided based on work or service to be performed.

D. SUBCONTRACTOR'S REQUIREMENTS:

The **CONTRACTOR** shall require the same insurance that it is required to carry by the Town of East Hartford to be carried by any subcontractors and independent contractors hired by the **CONTRACTOR** and to obtain **Certificates of Insurance** before subcontractors and independent contractors are permitted to begin work.

The **CONTRACTOR** shall require that the Town of East Hartford be named as Additional Insured on all subcontractors and independent contractors insurance before permitted to begin work.

The **CONTRACTOR** and all subcontractors and independent contractors and their insurers shall waive all rights of subrogation against the Town of East Hartford, and its officers, agents, servants and employees for losses arising from work performed by each on this contract.



TOWN OF EAST HARTFORD

CONNECTICUT

INSTRUCTIONS FOR CONSTRUCTION AND/OR LABOR SERVICE BIDS

1. A Certificate of Insurance naming the Town as an additional insured will be required of the **awarded bidder**. The insurance indemnification clause is contained with the bid specifications. .

LINE CHECKED RELATES TO THIS PROJECT:

_____ This is a **prevailing wage bid** and the wage rates are included within the Bid Specifications.

 X This **is not** a prevailing wage bid.

2. In accordance with state law, each contract for the construction, remodeling or repair of any public building or public works or improvements shall contain the following provision when the cost of construction, remodeling or repair exceeds the limits as provided in Connecticut General Statutes 31-53; “the wages paid on an hourly basis to any mechanic, laborer or workman employed upon the work herein contracted to be done and the amount of payment or contribution paid or payable on behalf of each such employee to any employee welfare fund, as defined in Subsection (h) of Section 31-53 for the Connecticut General Statutes, shall be at a rate equal to the rate customary or prevailing for the same work in the same trade or occupation in the Town of East Hartford. Any contractor who is not obligated by agreement to make payment or contribution on behalf of such employees to any such employee welfare fund shall pay to each employee as parts of his wages the amount of payment or contribution for his classification on each pay day”.

LINE CHECKED RELATED TO THIS PROJECT:

_____ This **is a required bonded project**

 X **No bonds** or any other form of guarantee will be required for this bid project.

3. **(IF REQUIRED):** A Bid Bond must be submitted with the bid and may be in the form of certified check or cashier’s check **payable to “The Town of East Hartford” or a bond of a surety company authorized to transact business in the State of Connecticut**. No checks will be returned until the bid is awarded. If you are the awarded bidder, your check will be held until it is replaced with another Guarantee of Performance. **Bid Bond shall be 5% (five percent) of total bid price.**

A Guarantee of Performance will be required of the awarded bidder and may be in the form of a certified check or cashier's check payable to "The Town of East Hartford" or a bond of a surety company authorized to transact business in the State of Connecticut. Checks will be retained by the Town for period of time after final acceptance and payment as determined by the complexity of the project. Performance Bond shall be 100% (one hundred percent) of awarded bid price.

4. (IF REQUIRED): The Town reserves the right to require the contractor to carry an umbrella liability limit of (not required).
5. Before starting any work awarded bidders are responsible for obtaining permits as required by Federal, State, MDC, Utilities and/or Town regulations. Any applicable fees shall be included in the total bid price. Town of East Hartford permits will be issued at no charge.
6. The bidder shall abide by all OSHA, Federal, State and local laws, ordinances and/or regulations, which may affect in any manner those engaged or employed on the work, or the materials or equipment used in the work, or in any way affect the conduct of the work, and no pleas of misunderstanding will be considered on account of ignorance.

If the bidder shall discover any provisions in the drawings, specifications or contract, which are in conflict with any such law, by-law or ordinance or regulation, he shall report it to the Town in writing with the bid proposal.

7. Throughout the work period, the contractor shall maintain the work site in a generally accepted standard of cleanliness, free from accumulation of waste materials or rubbish caused by his operations and shall take prompt action to correct any hazardous conditions reported.
8. It is the responsibility of each bidder before submitting a bid, to familiarize themselves with the specifications and conditions that may affect cost, progress, performance or completion of the project.
9. All materials and equipment shall be applied, installed, connected, erected, used, cleaned and conditioned in accordance with generally accepted industry standards.
10. Unless otherwise specified, the contractor shall furnish and assume full responsibility for all materials, equipment, labor, transportation, construction equipment and machinery, tools, fuel, appliances, power, light, heat, telephone, water, sanitary facilities, temporary facilities and all other facilities and incidentals necessary for the furnishing, performance, testing, start-up and completion of the work.
11. The Contractor may utilize the services of specialty subcontractors on those parts of the work which, under normal contracting practices, are performed by specialty subcontractors.

The Contractor shall not award any work to any subcontractor without prior approval of the Town, which approval will not be given until the Contractor submits to the Town a

written statement concerning the proposed award to the subcontractor, which statement will contain such information as the Town may require.

The Contractor shall be as fully responsible to the Town for the acts and omissions of his subcontractors, and of persons either directly or indirectly employed by them, as he is for the acts and omissions of person directly employed by him.

The contractor shall cause appropriate provisions to be inserted in all subcontracts relative to the work to bind subcontractors to the Contractor by the terms of the General Conditions and other contract documents insofar as applicable to the work of subcontractors and to give the Contractor the same power as regards to terminating any subcontract that the Town may exercise over the Contractor under any provision of the Contract documents.

Nothing contained in this bid shall create any contractual relation between any subcontractor and the Town.

12. The Contractor shall not assign the whole or any part of this contract or any moneys due or to become without written consent of the Town. In case the Contractor assigns all or any part of any moneys due or to become due under this contract, the instrument of assignment shall contain a clause substantially to the effect that it is agreed that the right of the assignee in and or any moneys due or to become due to the contractor shall be subject to prior claims of all person, firms and corporations for services rendered or materials supplied for the performance of the work called for in this contract.

RESOLUTION FOR CORPORATIONS AND PROFESSIONAL CORPORATIONS
(required)

(TO BE TYPED ON CORPORATION LETTERHEAD PAPER)

I _____, Secretary of _____
(Name of Corporation's Secretary) (Legal name of Corporation)
a Corporation duly organized and operating under the laws of _____ and
(State)

Qualified and authorized to do business in the State of Connecticut, DO
HEREBY CERTIFY that the following is a true, correct and accurate copy of a
Resolution duly adopted at a meeting of the Board of Directors of such
Corporation, duly convened and held on _____, at which meeting
a duly constituted quorum of the Board of Directors was present and voted in
favor of such Resolution. I further CERTIFY that such Resolution has not been
modified, rescinded or revoked since the date on which it was enacted, and it is
at present in full force and effect:

RESOLVED: That the following Officers of this Corporation, or any one
them: _____

_____,

(Name and title of Officer or Officers)

is empowered to execute and deliver in the name and on behalf of this
Corporation contracts, bids and other documents to the Town of East Hartford, State of
Connecticut, and are further authorized to affix the Corporate Seal to such documents and to
bind the Corporation to such contracts, bids and other documents.

IN WITNESS WHEREFORE, the undersigned has affixed his/her signature and the
Corporate Seal of the Corporation, this _____ day of _____.

(Affix Corporate Seal Below)

(Typed name of Corporation's Secretary)

SIGNATURE OF SECRETARY

Resolution for Limited Liability Company (required)
(TO BE TYPED ON LIMITED LIABILITY COMPANY LETTERHEAD PAPER)

The undersigned, all of the members [or, if applicable, the managing member] of

(legal name of LLC)
A Limited Liability Company duly organized and operating under the laws of
_____ and

(State)
qualified and authorized to do business in the State of Connecticut, DO

HEREBY CERTIFY that the following is a true, correct and accurate copy of a Resolution duly adopted at a meeting of the Members of such Limited Liability Company, duly convened and held on_____, at which meeting a duly constituted quorum of the voting Members was present and voted in favor of such Resolution. We further CERTIFY that such Resolution has not been modified, rescinded or revoked since the date on which it was enacted, and it is at present in full force and effect:

RESOLVED: That the following Members of this Limited Liability Company, or any one
them:_____

_____,
(Name and title of Members)
is empowered to execute and deliver in the name and on behalf of this Limited Liability Company, contracts bids and other documents to the Town of East Hartford, State of Connecticut, and are further authorized to seal to such documents and to bind the Limited Liability Company to such contracts, bids and other documents.

IN WITNESS WHEREFORE, the undersigned have executed this resolution, this
_____ day of _____.

Have all necessary parties sign and indicate their name and title, such as member, managing member etc..

Resolution for Partnership (including Limited Partnership and Limited Liability Partnership)
(required)

(TO BE TYPED ON PARTNERSHIP LETTERHEAD PAPER)

The undersigned, all of the partners (or, if a Limited Partnership, all of the general partners, or if a Limited Liability Partnership, all of the partners) of _____, a partnership (or, if applicable, a Limited Partnership or Limited Liability Partnership) duly organized and operating under the laws of _____ and qualified and authorized to do business in the State of Connecticut, DO HEREBY CERTIFY that the following is a true, correct and accurate copy of a Resolution duly adopted at a meeting of the voting partners of such partnership duly convened and held on _____, at which meeting a duly constituted quorum of the voting partners was present and voted in favor of such Resolution. We further CERTIFY that such Resolution has not been modified, rescinded or revoked since the date on which it was enacted, and it is at present in full force and effect:

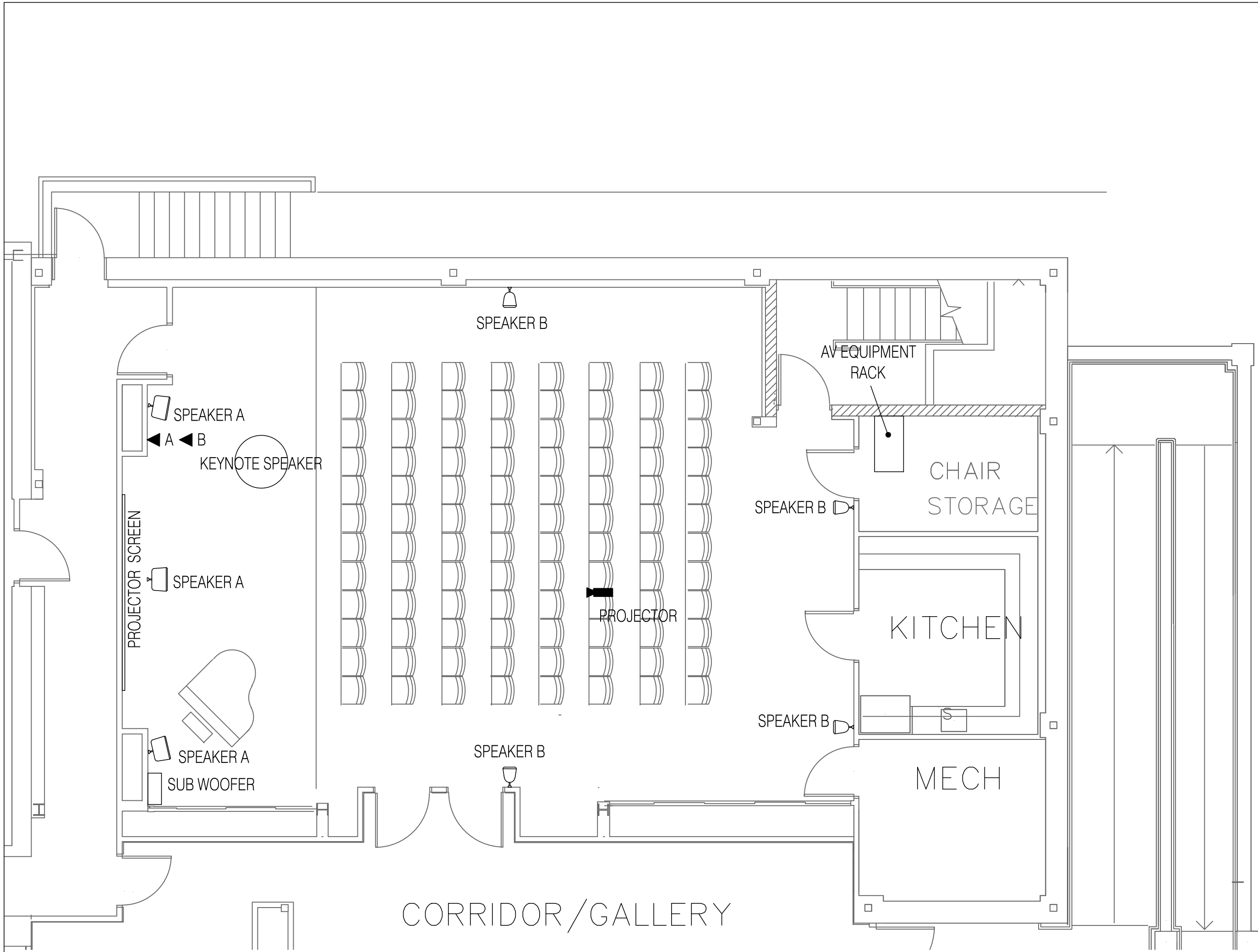
RESOLVED: That the following partners, or any one of them: _____

_____,
(Name and title of Partners)

is empowered to execute and deliver in the name and on behalf of this partnership, contracts, bids and other documents to the Town of East Hartford, State of Connecticut, and are further authorized to seal to such documents and to bind the partnership to such contracts, bids and other documents.

IN WITNESS WHEREFORE, the undersigned have signed this resolution on, this _____ day of _____.
(day) (month and year)

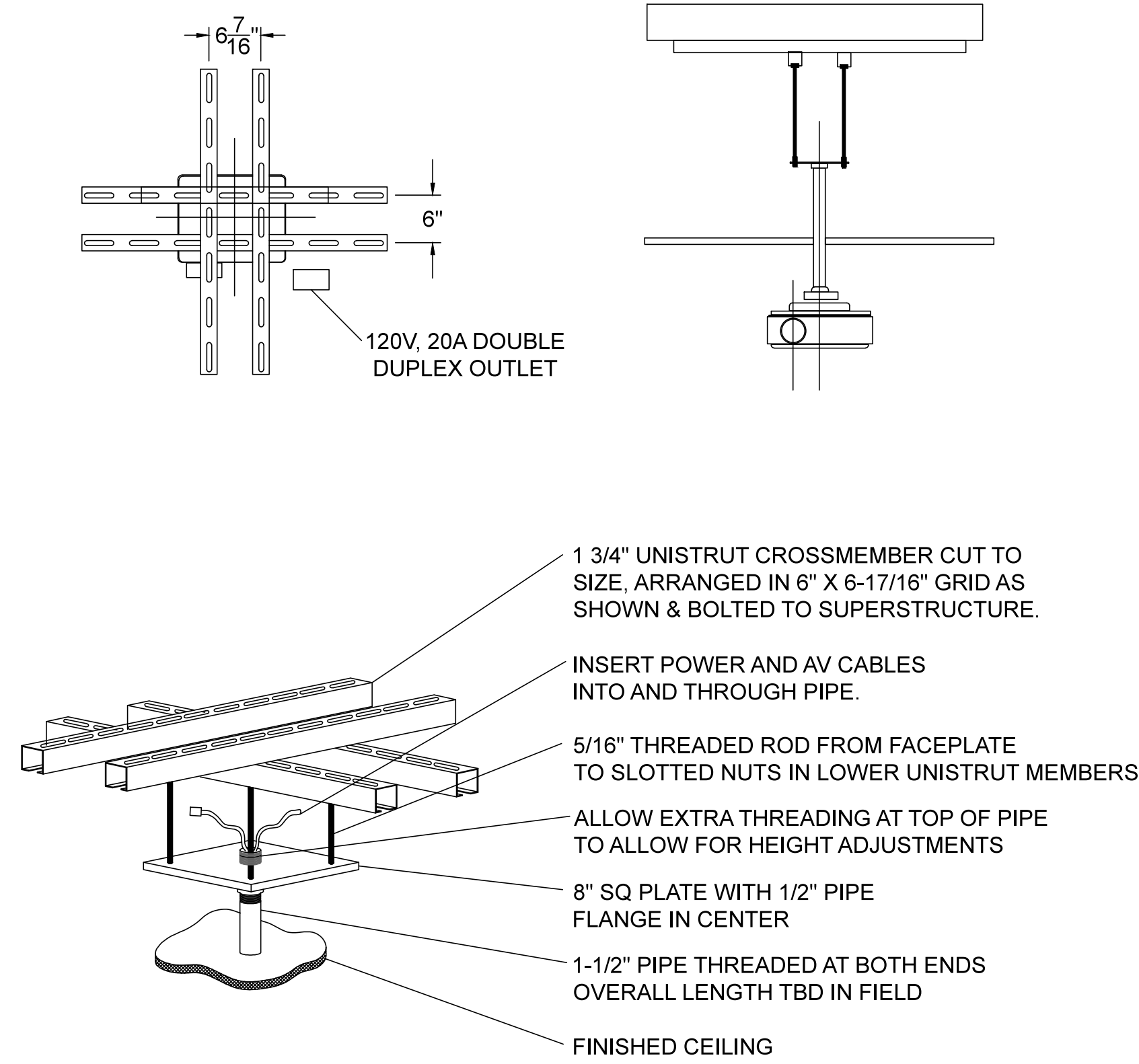
Have all necessary partners sign and indicate their name and title, such as partner, general partner, etc.



SYMBOL LEGEND / NOTES

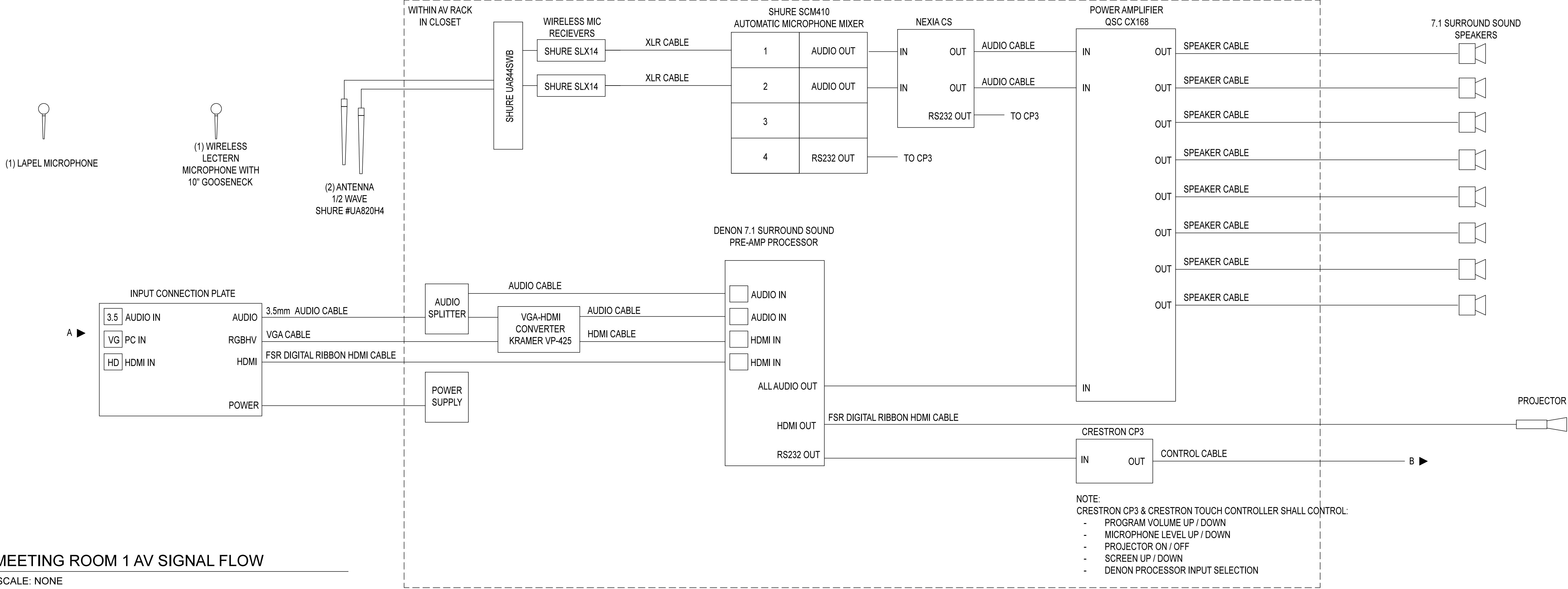
1. MINIMALLY THE LOUDSPEAKER SYSTEM SHALL BE CAPABLE GOOD FREQUENCY RESPONSE, DYNAMIC RANGE, EVEN COVERAGE AND INTELLIGIBILITY THROUGHOUT THE AUDIENCE SEATING AREA. THIS 7.1 CINEMA SURROUND SOUND MUST PROVIDE A MINIMUM OF 75-100db's OF AN EVEN SPL THROUGHOUT THE AUDIENCE SEATING AREA. ADDITIONALLY THIS SOUND SYSTEM SHALL ALSO SUPPORT A SYSTEM CAPABLE OF CLARITY AND INTELLIGIBILITY FOR KEYNOTE SPEECHES. THE FOLLOWING PRODUCTS ARE PROVIDED AS A GUIDE AND SHOULD BE VERIFIED TO MEET THE REQUIREMENTS OF THIS PROJECT.
2. SPEAKER A - 8" SURFACE MOUNTED SPEAKER, WHITE - QSC #AD-S82-WT w/WHITE SPEAKER YOKE - QSC #YM8-WH
3. SPEAKER B - 5" SURFACE MOUNTED SPEAKER, WHITE - QSC #AD-S52T
4. SUB WOOFER - QSC #ADS28TW
5. PROJECTOR SCREEN - DA - LITE #21771R 72.5' x 116", 137" DIAGONAL ELECTRIC HD SCREEN WITH RS232 CONTROL
6. PROJECTOR: CEILING MOUNTED 4500 LUMEN PROJECTOR WITH PROPER SIZED LENS, PANASONIC #P50W530U
7. AV EQUIPMENT RACK SHALL BE MOUNTED WITHIN THE CONTROL ROOM AND SHALL BE FIXED TO THE WALL OR FLOOR. THIS RACK SHALL BE SIZED TO ACCOMMODATE THE AMPLIFIERS, MIXERS, ALL PERIPHERAL RACK MOUNTED DEVICES. THIS RACK SHALL MINIMALLY ACCOMMODATE:
 - (1) 7.1 SURROUND SOUND PRE-AMPLIFIER PROCESSOR
 - (1) 6 INPUT MIXER
 - (1) 8 CHANNEL, 100W AMPLIFIER
 - (1) AUDIO MIXER (MICROPHONES)
 - (1) ANTENNA DISTRIBUTION SYSTEM
 - (1) UHF IN-LINE AMPLIFIER

- A ► AV INTERFACE LOCATION CONSISTING OF:**
QTY (1) EXTRON VGA EXTENDER WALL PLATE #60-1261-22
QTY (1) EXTRON PROFESSIONAL VGA CABLE
QTY (1) HDMI FEMALE KEYSTONE CONNECTOR
QTY (1) FSR DIGITAL RIBBON HDMI CABLE SIZED AS NECESSARY
QTY (A/R) POWER FOR EXTRON VGA EXTENDER
- B ► AV CONTROL PLATE LOCATION CONSISTING OF:**
QTY (1) CRESTRON TS3W-750
QTY (A/R) CONNECTORS AS REQUIRED FOR FULLY FUNCTIONAL SYSTEM AT BOTH ENDS
QTY (A/R) POWER FROM CRESTRON CP3



PROJECTOR MOUNTING DETAILS

SCALE: NTS



MEETING ROOM 1 AV SIGNAL FLOW

SCALE: NONE

CONSULTANT:

THIS DRAWING AND DETAIL, ON IT, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF D'AGOSTINO & ASSOCIATES AND MAY BE USED FOR THE SPECIFIC PROJECT AND SHALL NOT BE LOANED, COPIED OR REPRODUCED WITHOUT WRITTEN CONSENT OF D'AGOSTINO & ASSOCIATES.

KEY PLAN:

REVISION: DATE:

PRINCIPAL IN CHARGE: MARC J. D'AGOSTINO

PROJECT MANAGER:

DESIGNER: NAD

PROJECT ARCHITECT / ENGINEER

DRAWN BY: NAD

PROJECT:

ADDITIONS & RENOVATIONS TO
RAYMOND LIBRARY
840 MAIN STREET
EAST HARTFORD, CT

DRAWING TITLE:
**TECHNOLOGY PLANS
MEETING ROOM 01 AV
DETAILS**

DATE: JANUARY 23, 2015

SCALE:

PROJECT NUMBER:

DRAWING NO. **AV.1**

SECTION 274100 - AUDIO VIDEO SYSTEMS

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Projectors and accessories
- B. 7.1 Surround Sound Speakers and accessories
- C. Keynote Speaker accessories
- D. Microphone System
- E. A/V Cabling

1.2 RELATED DOCUMENTS

- A. Supplementary instructions to Bidders within this Project Manual.

1.3 SUMMARY

- A. The scope of this project is to provide a cinema-like audiovisual system, which will also be used, for keynote speakers. Additionally, the system shall be capable to accommodate several inputs to broadcast sound via sources outside of the Library.
- B. This audio system and the pre-amp processor shall be configured to accommodate the following scenarios via a 1-push button/setting:
 - 1. Full 7.1 surround sound and video presentation.
 - 2. Keynote speaker; the front main speakers only.
- C. The keynote speaker system shall include wired and wireless microphones as described within this project manual. Additionally, computer A/V inputs shall be installed at the presentation area. There is a pre-existing, movable podium that will be re-used in this space.
- D. Interconnection from/to all devices, testing, all configurations and training are part of this section.
- E. All areas shall receive new cabling as specified and required to provide a complete and functional audiovisual system.

1.4 SUBMITTALS

- A. Product Data: For each type of product indicated. Include dimensions and data on features, performance, electrical characteristics, ratings, and finishes.

- B. Shop Drawings: From approved manufacturer for each type of device required. Include plan view locations, elevations, installation details, and accessories.
 - 1. Functional Block Diagram: Show single-line interconnections between components for signal transmission and control. Show cable types and sizes.
- C. Product Data: Submit manufacturer's technical data, product specifications, installation instructions, and other pertinent information as applicable for each product or material specified.
- D. Operating and Maintenance instructions for each product.
- E. Samples of Manufacturer's standard and extended Warranties.
- F. Equipment List: Include every piece of equipment by model number, manufacturer, serial number, location, and date of original installation.
- G. Operation and Maintenance Data: For Interactive Whiteboards, Projectors and speakers.
 - 1. Lists of spare parts and replacement components recommended to be stored at the site for ready access.

1.5 QUALITY ASSURANCE

- A. Single Source Responsibility: Obtain all materials from one source from a single approved manufacturer for each different product required.
- B. Certification: CE, FCC Class A

1.6 DELIVERY, STORAGE AND HANDLING

- A. Take care in handling products in accordance with manufacturer's instructions.
- B. Store indoors in original undamaged packaging, in a well-ventilated area protected from weather, moisture, soiling, extreme temperatures, and humidity. Store products upright in secure, protected area. Do not stack! Verify with manufacturer that site conditions are acceptable before receiving material.
- C. Environmental Conditions: Capable of withstanding the following environmental conditions without mechanical or electrical damage or degradation of operating capability:
 - 1. Interior, Controlled Environment: System components installed in temperature-controlled interior environments shall be rated for continuous operation in ambient temperatures of 36 to 122 deg F (2 to 50 deg C) dry bulb and 20 to 90 percent relative humidity.

1.7 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of any device and equipment related to operation, and equipment that fail in materials or workmanship within specified warranty period.
1. Warranty Period: Unless stated otherwise within product descriptions, a [Two] 2 year warranty from date of Substantial Completion shall be provided.
 2. Provide information on available extended warranties.

PART 2 - PRODUCTS

2.1 BILL OF MATERIAL

- A. The following selected manufacturers have been reviewed and approved by the owner and the audiovisual consultant. Other manufacturers will be considered, providing equipment meets or exceeds the quality specified and they can provide equipment of the type, size and function required. Substitutions must be approved by the audiovisual consultant prior to this Bid Submission.
1. Speakers:
 - a. QSC Audio Products, LLC. Costa Mesa, CA 92626, www.qsc.com ph: 800-854-4079
 - b. Or equivalent.
 2. Projector:
 - a. Panasonic, One Panasonic Way, Secaucus, NJ 07094, www.panasonic.com
 - b. NEC, www.necdisplay.com ph: 800-632-4662
 - c. Or equivalent.
 3. Mixers:
 - a. Ashly, www.denon.com, 100 Corporate Drive, Mahwah, NJ 07430-2041 ph: 203-952-5178
 - b. Or equivalent.
 4. Processor:
 - a. Denon Electronics, www.ashly.com, Rep: Benchmark Audio Sales, 74 East Rock Road, Norwalk, CT ph: 201-762-6500
 - b. Or equivalent.
 5. Microphones and peripherals:
 - a. Shure Inc, www.shure.com, 5800 West Touhy Avenue, Niles, IL 60714-4608 ph: 800-257-4873
 - b. Or equivalent.
 6. AV Interface plates:

- a. Extron, www.extron.com, 1025 E. Ball Road, Anaheim, CA 92805 ph: 800-633-9876
- b. Or equivalent.
- B. The following quantities and products are provided to assist the bidding integrator to formulate an overview of the audiovisual systems that are required. All peripheral a/v interface plates, cabling, configuration and peripheral devices required to provide a complete and functional audiovisual system as described in this project manual shall be furnished and installed by the integrator awarded this project:

Item	Qty	Item Description	Manufacturer	Part No.	Unit Price Material	Total Price
CINEMA DEVICES						
1	3	8" surface mount speaker white	QSC	AD-S82-WT		
2	3	White speaker yoke	QSC	YM8 -WH		
3	4	5" surface mount speakers	QSC	AD-S52T		
4	1	ADS28t-W bandpass subwoofer	QSC	ADS28T-W		
5	1	8 Channel Amplifier 100w	QSC	CX-168V		
6	1	4 Input Automatic Mixer	Shure	SCM410		
7	1	7.1 Surround pre-amp processor	Denon	DN-500AV		
8	1	4500 Lumens Projector w/ PROPERLY Sized Lens	Panasonic	PT-DW530U		
9	1	Cabling & Connectors	a/r			
KEYNOTE SPEAKER DEVICES						
10	2	VGA Line driver - with audio	Extron	60-759-12		
11	4	VGA & Audio passive connector plate	Extron	70-433-12		
12	4	Faceplate, single gang for Extron devices VGA/HDMI/3.5	Extron			
13	4	Blanks	Extron	70-433-12		
14	1	Antenna Distribution System	Shure	UA844SWB		
15	2	Antenna, 1/2 Wave, Frequency G	Shure	UA820G		
16	2	UHF In-Line Amplifier	Shure	UA830		
17	1	Antenna extension cables - 25' long	Shure	UA825		
18	1	Microphone, Wireless, Lapel reciever combo	Shure	SLX14/85		
19	1	Microphone Wireless transmitter - Lectern base	Shure	MX890		
20	1	Microphone & goose neck, 10" long WITHOUT PRE AMP	Shure	MX410LP		
21	1	Wireless reciever for lectern microphone	Shure	SLX-4L		
22	2	Mic cables from Mic Receivers to Mixer	as required			
23	1	Interconnecting connectors, cabling & speaker cabling	a/r			
24	1	Installation and Configuration of system	a/r			
ADA HEARING IMPAIRED DEVICES						
25	1	Stationary RF Transmitter (72MHz)	Listen Tech	LT-800-072-01		
26	1	Universal Rack Mounting Kit	Listen Tech	LA-326		
27	1	Universal Antenna Kit (72 & 216MHz)	Listen Tech	LA-122		
28	5	Intelligent DSP RF Receiver	Listen Tech	LR-4200-072		
29	5	Universal Ear Speaker	Listen Tech	LA-401		
30	2	Intelligent Earphone/Neck Loop Lanyard	Listen Tech	LA-430		
31	1	Intelligent 12-Unit Charging Tray	Listen Tech	LA-381-01		
32	1	Assistive Listening Notification Signage Kit	Listen Tech	LA-304		
AV RACK						
33	1	18RU Equipment Rack	Mid-Atlantic	ERK-820		
CONTROL SYSTEM						
34	1	Control Processor	Crestron	CP3		
35	1	7" Touch Screen Controller	Crestron	TSW-750		
35	1	Digital Signal Processor	Nexia	CS		
PROJECTOR CEILING POLE MOUNT						
36	1	Ceiling Pole Mount	Chief	RSMAU		
AV RACK						
37	1	18RU Equipment Rack	Mid-Atlantic	ERK-820		

SCREEN OPTIONS					
38	1	Electric HD Screen with RS232 Control Screen Size: 72.5" x 116" x 137" Diagonal	DA-LITE	21771R	
INSTRUCTION OF PERSONNEL					
39	8Hrs	2-Hour training sessions (8 hours total) shall be provided to the Owner by an authorized distributor of the above AV systems to operate and maintain each system.	as required		
MISC. DEVICES					
40	3	70" Interactive LED TV	Sharp	PN-L703B	
41	3	Cart	Sharp	PN-SR763M	
42	3	Apple TV	Apple	Apple TV	
43	3	Google Chromecast	Google	Chromecast	
44	1	Blu - Ray Player	Specify	Specify	
45	1	Speakerphone & Videoconference Package	Logitech	CC3000E	
46	1	50" Smart TV	Samsung	Specify	

PROJECT TOTAL

PART 3 - EXECUTION

3.1 COMMISSIONING OF SYSTEMS AND EQUIPMENT

- A. Engage a factory-authorized service representative or technician who is familiar with this project to participate and assist, if necessary, in the functional performance testing of the equipment include in this Division with the Commissioning Agent.

3.2 EXAMINATION

- A. Examine room conditions, ceiling and wall surfaces to assure they are in compliance with requirements and other conditions affecting installation and operation of projector and speakers.
- B. Examine pathway elements intended for cables. Check raceways and other elements for compliance with space allocations, installation tolerance, hazards to A/V cabling and other conditions affecting installation.
- C. All inefficiencies must be brought to the attention of the Owner and audio visual consultant.
- D. Proceed with installation only after unsatisfactory conditions have been corrected.

3.3 CABLING

- A. All Audio Visual and associated cabling required for each system specified within this document is to be furnished, installed, terminated and tested as part of this section.
- B. Wiring Method: Install cables in raceways unless otherwise indicated.

- C. Wiring within Enclosures: Bundle, lace, and train conductors to terminal points with no excess and without exceeding manufacturer's limitations on bending radii. Provide and use lacing bars and distribution spools.
- D. Splices, Taps, and Terminations: For control wiring, use numbered terminal strips in junction, pull, and outlet boxes; terminal cabinets; and equipment enclosures.

3.4 FIELD QUALITY CONTROL

- A. Verify that accessories required for each unit have been properly installed.
- B. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect, test, and adjust components, assemblies, and equipment installations, including connections.
- C. Perform tests and inspections.
 - 1. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect components, assemblies, and equipment installations, including connections, and to assist in testing.
- D. Tests and Inspections:
 - 1. Inspection: Verify that units and controls are properly installed, connected, and labeled, and that interconnecting wires and terminals are identified.
 - 2. Pretesting: Align and adjust system and pretest components, wiring, and functions to verify that they comply with specified requirements.
 - 3. Operational Tests: Perform operational system tests to verify that system complies with Specifications. Include all modes of system operation.

3.5 CLEANING

- A. Remove rubbish and debris: Installation contractor is not allowed you use the onsite dumpster and is responsible to discard their own debris off site.
- B. Clean installed items using methods and materials recommended in writing by manufacturer.

3.6 DEMONSTRATION

- A. Bidding contractor shall engage a factory-authorized service representative to train the Owner's maintenance personnel to adjust, operate, and maintain each system described within this specification for the audio visual equipment. This training shall include (8) hours, separated into 2 hour sessions as mandated by the Owner.

END OF SECTION 27 41 00

BID SHEET

Company Name: _____

This proposal is made with the understanding that it will be accepted or rejected within sixty days; this may be extended by mutual consent. The undersigned declares that all information and specifications have been examined and understood and makes the following offer:

Item	Qty	Item Desc	Mfg	Part No	Unit Price	
						Unit
						Price
Item	Qty	Item Desc	Mfg	Part No	Material	Total Price
Cinema Devices						
1	3	8" Surface mount speaker, white	QSC	AD-S82-WT		\$
2	3	White speaker yoke	QSC	YM8-WH		\$
3	4	5" surface mount speakers	QSC	AD-S52T		\$
4	1	ADS28t-W bandpass subwoofer	QSC	AD-S28T-W		\$
5	1	8 Channel Amplifier 100w	CX-168V	CX-168V		\$
6	1	4 Input Automatic Mixer	Shure	SCM410		\$
7	1	7.1 Surround pre-amp processor	Denon	DN-500AV		\$
8	1	4500 Lumens Projector w/ Properly sized lens	Panasonic	PT-DW530U		\$
9	1	Cabling & Connectors	A/R			\$
Keynote Speaker Devices						
10	2	VGA Line driver – with audio	Extron	60-759-12		\$
11	4	VGA & Audio passive connector plate	Extron	70-433-12		\$
12	4	Faceplate, single gang for Extron Devices VA/HDMI/3.5	Extron			\$
13	4	Blanks	Extron	70-433-12		\$
14	1	Antenna Distribution System	Shure	UA844SWB		\$
15	2	Antenna, ½ Wave, Frequency G	Shure	UA820G		\$
16	2	UHF In-Line Amplifier	Sure	UA830		\$
17	1	Antenna extension cables – 25' long	Shure	UA825		\$
18	1	Microphone, Wireless, Lapel	Shure	SLX14/85		\$
19	1	Microphone Wireless Transmitter – Lectern base	Shure	MX890		\$
20	1	Microphone & gooseneck, 10' long without preamp	Shure	MX410LP		\$
21	1	Wireless Reciever for lectern microphone	Shure	SLX-4L		\$
22	2	Mic cables from Mic Receivers to Mixer	As required			\$

23	1	Interconnecting connectors,cabling & speaker cabling	a/r			\$
24	1	Installation and Configuration of System	a/r			\$
ADA Hearing Impaired Devices						
25	1	Stationary RF Transmitter (72mhz)	Listen Tech	LT-800-072-01		\$
26	1	Universal Rack Mounting Kit	Listen Tech	LA-326		\$
27	1	Universal Antenna Kit (72 & 216MHz)	Listen Tech	LA-122		\$
28	5	Intelligent DSP RF Receiver	Listen Tech	LR-4200-072		\$
29	5	Universal Ear Spaker	Listen Tech	LA-401		\$
30	2	Intelligent Earphone/Neck Loop Lanyard	Listen Tech	LA-430		\$
31	1	Intelligent 12-Unit Charging Tray	Listen Tech	LA-381-01		\$
32	1	Assistive Listening Notification Signage Kit	Listen Tech	LA-304		\$
AV Rack						
33	1	18RU Equipment Rack	Mid-Atlantic	ERK-820		\$
Control System						
34	1	Control Processor	Crestron	CP3		\$
35	1	7" Touch Screen Controller	Crestron	TSW-750		\$
36	1	Digital Signal Processor	Nexia	CS		\$
Projector Ceiling Pole Mount						
36	1	Ceiling Pole Mount	Chief	RSMAU		\$
AV Rack						
37	1	18RU Equipment Rack	Mid-Atlantic	ERK-820		\$
Screen Option						
38	1	Electric HD Screen with RS232 Control Screen Size: 72.5" x 116" x 137" Diagonal	DA-LITE	21771R		\$
Instruction of Personnel						
39	8Hrs	2-hour training sessions (8 hours total) shall be provided to the Owner by an authorized distributor of the above AV systems to opearate and maintain each system.	As require			\$
Misc. Devices						
40	3	70" Interactive LED TV	Sharp	PN-L703B		\$
41	3	Cart	Sharp	PN-SR763M		\$
42	3	Apple TV	Apple	Apple TV		\$
43	3	Google Chromecast	Google	Chromecast		\$

44	1	Blu-Ray Player	Specify	Specify		\$
45	1	Speakerphone and Video Conference Package	Logitech	CC3000E		\$
46	1	50" Smart TV	Samsung	Specify		\$
						\$
				Project Total:		\$

Total Project Cost \$_____

- Please pay special attention to Part 1 – General, Section 1.3 Summary.
- Please submit with bid package, the completed Bid Sheet (previous page), Corporate Resolution, and Submittal requirements listed under 1.4 of the bid specifications.

Please Acknowledge any Addenda here_____

PRINT OR TYPE ONLY

BIDS SUBMITTED BY A CORPORATION OR LLC SHALL HAVE A SEALED CORPORATE RESOLUTION ATTACHED TO THE BID SHEET **IDENTIFYING THE OFFICER WHOSE SIGNATURE APPEARS ON THE BID** BY NAME AND TITLE AND AUTHORIZING SAID PERSON TO SUBMIT THE BID AND SIGN A CONTRACT, IF AWARDED, ON BEHALF OF SAID CORPORATION.
THE ACCEPTABLE FORMAT IS INCLUDED IN THIS PACKET

TAX COLLECTOR VERIFICATION _____
NO DELINQUENT TAXES OWED BY THE **AWARDED**
BIDDER TO THE TOWN OF EAST HARTFORD

BIDDER _____

BY _____
TITLE

WRITTEN SIGNATURE _____

ADDRESS _____

ZIP CODE _____

TELEPHONE _____

FAX _____

EMAIL _____