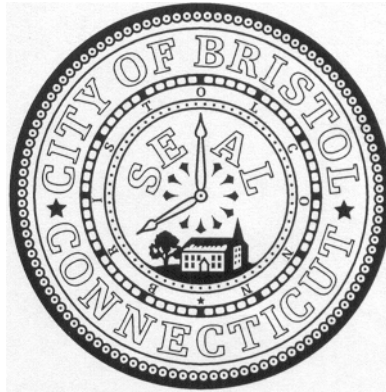


CITY OF BRISTOL, CONNECTICUT

BRISTOL BOARD OF EDUCATION



SPECIFICATIONS FOR  
CONTRACT 2C11-014

**Replacement of Boiler Equipment  
at Bristol Board of Education**

Proposal Submitted by: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Date Submitted: \_\_\_\_\_

Date issued: July 20, 2010

Date due: August 16, 2010

## INDEX TO CONTRACT DOCUMENTS

### STANDARD BIDDING DOCUMENTS

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Invitation to Bid 2C11-014  
**Replacement of Boiler Equipment at Bristol Board of Education**

The City of Bristol is seeking bids for the Replacement of Boiler Equipment at Bristol Board of Education. Bid documents may be obtained at no charge, from the City of Bristol Purchasing Department, 111 North Main Street, Bristol CT 06010, between the hours of 8:30 am and 5:00 pm Monday through Friday. No new sets of plans or specifications will be issued three working days prior to the date set for bid opening.

A **mandatory** prebid conference will be held on Thursday, August 5, 2010 at 10:00 am at the project site, located at 129 Church Street, Bristol, CT.

Bids will be accepted until **Monday, August 16, 2010 at 3:00 pm**, at which time bids will be opened and read. Bids received after the opening date and time will not be considered for award. The City reserves the right to waive any informalities in the bid, to reject any or all bids, and to accept the bid that in its judgment is in its best interest.

Each bid shall be in a sealed envelope addressed to the City of Bristol Purchasing Department, identified as "2C11-014 Replacement of Boiler Equipment at Bristol Board of Education", accompanied by a Bid Security in the amount of 10% of the bidders base bid amount.

The awarded contractor will be required to secure a Performance Bond and a Labor and Materials Bond, each in the amount of 100% of the contract award, provided by a surety licensed to do business in the State of Connecticut.

Roger D. Rousseau  
Purchasing Agent  
Tel (860) 584-6195  
Fax (860) 584-6171  
<http://www.bristolct.gov/bids>

INSTRUCTIONS TO BIDDERS

CITY OF BRISTOL, CONNECTICUT 06010  
CONTRACT 2C11-014

**Replacement of Boiler Equipment at Bristol Board of Education**

The following instructions and specifications shall be observed by all Bidders:

1. **Time and Place of Bid Opening**

Bids will be opened **Monday, August 16, 2010 at 3:00 pm**, at the Purchasing Office, 111 North Main Street Second Floor, Bristol, CT 06010.

2. **Pre-Bid Meeting**

There will be a **mandatory** prebid meeting held on **Thursday, August 5, 2010 at 10:00 am** at the project site, located at 129 Church Street, Bristol, CT. Vendors not in attendance at this meeting will not be considered for award.

3. **Availability of Bid Documents**

Plans and Specifications may be secured in person at the Purchasing Office, 111 North Main Street, Bristol, Connecticut; 06010 during regular office hours - 8:30 am to 4:30 pm, Monday through Friday. Distribution of plans and specifications is limited to one set per bidder. Bidders may request shipment of bid documents, at the bidder's sole expense. NO PLANS OR SPECIFICATIONS WILL BE ISSUED THREE WORKING DAYS PRIOR TO THE DATE SET FOR BID OPENING.

4. **Fee for Bid Documents**

No fee is required for the provision of these bid documents.

5. **Bid Addenda**

If additional information or change shall present itself, the Purchasing Department will send such change in a written addendum not later than three days prior to the date fixed for the opening of bids to the address given by the Contractor at the time of securing the Proposal document. Failure of any bidder to receive any such addendum shall not relieve it of the obligations under its bid as submitted. All addenda so issued shall become a part

of the Contract Documents. Certification of receipt of addenda shall be made by the bidder on the Proposal.

Notice of any addendum issued shall be provided (1) by first class mail and/or (2) by fax transmission; notice of said addendum are additionally posted upon release at the following website:

<http://www.bristolct.gov/bids>

Bidders are requested to acknowledge receipt of any addendum to ensure proper notification of changes to the published specifications. The City does not assume responsibility for any bidder that does not receive any addendum.

6. **Bid Bond Requirements**

A Bid Bond in the amount of ten percent (10%) of the total amount bid is required. Such Bid Bond shall be issued by a Surety licensed to do business in the State of Connecticut. Bid Bond will be returned to all except the successful bidder upon award, and to the successful bidder upon issuance of a Purchase Order. NO BID WILL BE ACCEPTED UNLESS ACCOMPANIED BY THE REQUIRED BID BOND.

7. **Bid Instructions**

- (a) Bids must be enclosed in a sealed envelope, addressed to the City of Bristol and clearly identified with the contract number and name as shown on the face of these bid documents.
- (b) Bids must be made on the attached forms with complete information as requested on the bid forms; bids submitted on other than the forms included within this document will not be considered.

8. **Examination of Site Conditions**

Bidders must satisfy themselves by personal examination of the site and location of the proposed work as to the actual conditions and requirements of the work and inform themselves fully of the conditions relating to the construction and labor under which the work will be performed. No claim because of the lack of knowledge by the Contractor regarding the site, the proposed work, or content of the specifications and drawings will be allowed. The bidder may call the Engineer for an appointment to inspect the work site with him. No appointments for inspection will be made the day of or the day prior to the bid opening. At the date fixed for opening of Bids, it will be presumed that each Bidder has made an examination of the location and site of work

to be done under this Contract and has satisfied himself as to the actual conditions and requirements.

9. **Prevailing Wage Rates**

**This project shall not be subject to prevailing wage rates.**

10. **Sales and Use Tax**

Bidders are reminded that the Connecticut State Sales and Use Tax, and associated Federal taxes are not applicable under this contract, and therefore these taxes are not to be included in the bid price(s).

Under terms of Regulation 16, referring to Contractors and Sub-contractors, issued by the State Tax Commission in administration of the State Sales and Use Tax, the Contractor may purchase materials and supplies to be consumed in the performance of the Contract without payment of the tax and shall not include in his bid nor charge any sales or use tax thereon.

11. **Definitions**

The word "City" as used throughout these documents shall refer to the City of Bristol, Connecticut acting through it's Mayor and City Council.

The phrase "Mayor" as used throughout these documents shall mean the Mayor of the City of Bristol.

The word "Director" as used throughout these documents refers to the Director of Public Works of the City of Bristol.

The word "Engineer" as used throughout these documents refers to the City Engineer of the City of Bristol or his designee.

The word "Bidder" as used throughout these documents refers to the party or parties submitting a bid to perform the work to be done or materials to be furnished under the Contract; the legal representatives of such party or parties.

The word "Contractor" as used throughout these documents refers to the party or parties contracting to perform the work to be done or materials to be furnished under the Contract; the legal representatives of such party or parties.

**12. Project Location**

The components of the work included under this Contract are to be conducted at Bristol Board of Education Administration Building, 129 Church Street, Bristol, CT.

**13. Intent**

The Intent of these specifications is to obtain a Contractor that will furnish all labor, supervision, tools, materials and equipment necessary for replacement of two (2) Smith Model 19A-6 cast iron sectional hot water boilers, in accordance with the enclosed specifications.

**14. Work Schedule**

The Contractor shall call the Buildings and Grounds Supervisor at (860) 584-7012 prior to the start of any work associated with this Contract.

The Contractor shall plan and attend a preconstruction meeting, and submit a project schedule to the Engineer, prior to the start of any work associated with this Contract.

No work will be performed at night or on Sundays or legal holidays except in case of emergency and only to the extent necessary to make the work safe. The normal work day shall be considered as any eight (8) hour period falling between 7:00 am and 11:00 pm, Monday through Friday. Special clearance will be required for work outside these times.

The successful Bidder/Contractor shall begin work within seven (7) calendar days after contract signing.

By joint agreement between the Engineer and the Contractor, a later date may be set for beginning work, if such delay is caused beyond the control of the Contractor or the City.

All work under the Contract is to be completed within **thirty (30) calendar days** from the date of the issuance of the Purchase Order, or from the date of delivery of equipment by the manufacturer, whichever is later. Liquidated damages of **Two Hundred (\$200.00) Dollars** shall be paid by the Contractor to the City for each and every calendar day after the completion date hereinbefore specified. All or a portion of the liquidated damages may be abated for cause by agreement between the City and the Contractor. Liquidated damages will be deducted from monies due the Contractor before final payment.

**15. Evaluation of Prices Submitted**

Bids will be compared on the basis of the estimated quantities times unit or lump sum prices stated in the Proposal. In the event of a discrepancy between prices written in words and figures; the prices written in words shall govern. It is the intent of the City of Bristol to make award to the lowest responsible qualified bidder (reference C.G.S. 4a-59). In the event of a discrepancy between (1) the Total Amount of the bids as recorded on the bid form by the bidder and (2) the Total Amount of lump sum line items and/or unit prices as recorded on the bid form by the bidder extended by designated quantities and tabulated by the Purchasing Agent, the latter shall prevail.

**16. Engineer Estimate of Work**

The Engineer's estimate of work and material by which the bids will be compared, are as shown in the Proposal and are solely for the purpose of comparing proposals received and are approximate only and are not guaranteed.

**17. Submission of Contractor Qualifications**

Bidders shall sufficiently provide information (e.g. references and/or equipment capacity) to show that the bidder is capable of performing the work outlined in these specifications.

**18. Certificate of Good Standing**

Any corporation whose Proposal is being considered for acceptance by the City may be required, if requested, to provide a "Certificate of Good Standing" from the Secretary of the State's Office for Connecticut.

**19. Acceptance/Rejection of Bids**

The City of Bristol may reject bids which are incomplete, conditional, obscure, contain additions not called for, erasures not properly initialed, or which contain alterations or irregularities of any kind. The City may rightfully waive informalities. The Purchasing Agent reserves the right to reject any or all bids; or the bids for any one or more commodities; or contractual services included in any or all bids; and/or to waive any informality in bids; and unless otherwise specified, to buy any part or the whole from one or more bidders when it is to the City's best interest to do so. The City also reserves the right to reject any or all bids, or to accept any bid whether the

lowest or not, should the City deem it for their best interest to do so.

20. **Local Bidding Preference**

In the event that a local business submits a bid to the City of Bristol that is within 4% of the lowest compliant bidder and is considered to be in compliance with requirements set forth in the bid, the local business shall be allowed the opportunity to accept the award of the bid as the lowest compliant bidder, at the amount of the lower bid. Such practice shall apply to all City bids for all City departments, with the following exceptions:

1. Contracts exceeding \$1,000,000.00
2. Professional services, awarded on subjective and objective criteria in addition to cost.
3. Contracts using state, federal, or other funds that have governing regulations disallowing such practice.
4. Contracts awarded on behalf of the Bristol Water Department as a separate enterprise fund.

21. **Withdrawal of Bid Submitted**

Any bid may be withdrawn prior to the designated closing time for receiving bids. Bids may be withdrawn 90 days after the bid opening, if no award has been made. If the City does not award a contract within ninety (90) days after the opening of bids, all bid proposals will be null and void except on mutual agreement of the City and the lowest qualified bidder, this time may be extended.

22. **Failure to Submit Bid**

Failure to return a bid may result in the company's name being removed from the Bid List. "No Bids" and responsive bids will result in Bid List retention.

23. **Contract Execution**

The person or persons whose Proposal is accepted will be required to furnish all insurance certificates in amounts as hereinafter specified, within five (5) days from the date of notice of the award; said person or persons will also be required to furnish all performance and payment bonds within three (3) days from request by the City, and at least three (3) days prior to the signing of the Contract.

The person or persons whose Proposal is accepted will be required to execute a contract, in substantially the form annexed, as

scheduled by the Office of the Mayor. Once the contract is executed via formal contract signing at Bristol City Hall, the Contractor will be issued a City Purchase Order for the contract.

Contracts valued at less than \$50,000.00 may be executed directly via the issuance of a purchase order, at the discretion of the City.

24. **Inclusion of Contract Provisions**

The bidders' attention is directed to the form of this agreement, which includes as a part of it in addition to this Information for Bidders, the Proposal, the General Provisions, the Special Provisions, Specifications, Measurement and Payment, the Contract Drawings and Standard Detail Drawings.

25. **Provision of Contract Related Documents**

Bonds and Insurance Certificates shall be submitted to the Purchasing Agent. In case of failure or refusal on the part of the bidder to enter into a contract or to furnish the required bonds and/or required insurance certificates, within the set time periods, the bidder shall forfeit to the City of Bristol such part of the bid bond as shall be equal to the difference between the total bid of the defaulting bidder, and the total bid of the person or persons with whom the contract is finally executed.

26. **Acceptance of Alternate Materials or Methods**

When alternate bids are asked for, the City at time of the awarding or prior to signing of the Contract, through its Engineer, will select which type of material or construction will be used.

27. **Indemnification**

The Contractor, in contracting for goods, services, materials, labor and the like with the City of Bristol and its respective officers, agents and servants, does hereby agree that the Contractor will indemnify and save harmless the City of Bristol, its respective officers, agents and servants from and against any and all claims, damages, losses, litigation expenses, counsel fees and compensation arising out of any injuries (including death) sustained by, or alleged to have been sustained by, the servants, employees or agents of the City of Bristol, or of the Contractor or of any participant or spectator, and from injuries (including death) sustained by, or alleged to have been sustained by, the public or any persons on or near the site, or on any other person or damage to property, real or personal, including

property of the City of Bristol and their respective officers, agents and servants, caused in whole or in part by the acts or omission of the Contractor or any participant or spectator or anyone directly or indirectly employed or working for the bidder while engaged in the activity in the City of Bristol.

28. **Equal Opportunity - Affirmative Action**

The successful contractor shall comply in all aspects with the Equal Employment Opportunity Act. Each Contractor with 15 or more employees shall be required to have an Affirmative Action Plan which declares that the contractor does not discriminate on the basis of race, color, religion, sex, national origin or age and which specifies goals and target dates to assure the implementation of equal employment. Each contractor with fewer than 15 employees shall be required to have a written equal opportunity policy statement declaring that it does not discriminate on the basis of race, color, religion, sex, national origin or age. Findings of noncompliance with applicable State and Federal equal opportunity laws and regulations could be sufficient reason for revocation or cancellation of this contract. The contract is subject to contract compliance requirements mandated by Sections 4a-60 and 4a-60a of the State of Connecticut General Statutes.

Included within these specifications is an Employment Information Form. Firms with 15 or more employees are required to complete the form and return as part of their bid submission.

29. **Contractor's and Subcontractor's Insurance**

The successful bidder shall provide a certificate of insurance naming the City of Bristol as an "additional insured" in the minimum amounts as specified herein. Said insurance shall be provided at the sole expense of the bidder with an insurance company which is licensed to do business in the State of Connecticut.

- a. **Worker's compensation** as required by Connecticut Law.
- b. **General liability** - \$1,000,000 (combined single limit); bodily injury/property damage coverage per occurrence and \$2,000,000 aggregate coverage.
- c. **Auto liability** - \$1,000,000 (combined single limit). Property damage and bodily injury coverage.
- d. **Owners & Contractors Protective Insurance** policy to be provided in the name of the City of Bristol with the same limits required for the General Liability Insurance.

The City of Bristol reserves the right to modify and/or change the insurance requirements. All individual modifications to the insurance limits require prior approval of the Comptroller's Office of the City of Bristol. Said insurance shall be provided at the sole expense of the successful Bidder.

Certificates of coverage on motorized equipment, cars and trucks, including non-ownership and hired vehicles shall also be filed.

Any subcontractor shall be likewise covered and shall furnish certificates of coverage acceptable to the City before starting work.

All certificates of coverage shall be filed in triplicate. All policies and/or certificates shall have a ten (10) day written notice to the City of Bristol of expiration or cancellation.

30. **Bond Requirements**

For all contracts valued in excess of \$50,000.00, the awarded contractor shall provide the following bonds in the minimum amounts as specified herein.

- a. **Labor and Materials Bond** in the amount of 100% of the Total Proposal Price guaranteeing to the City payments for all labor, materials, and equipment utilized in the completion of work under the Contract in the amount of contract award.
- b. **Performance Bond**, guaranteed by Surety licensed to do business in Connecticut, in the amount of 100% of the Total Proposal Price guaranteeing to the City the completion of the Contract.

All bonds shall be guaranteed by Surety licensed to do business in Connecticut.

It is distinctly agreed and understood that any changes in plans and/or specifications for this work, whether such changes increase or decrease the amount thereof, or the manner or time of payment, shall in no way annul, release or affect the liability and surety on the bond given by the Contractor.

In accordance with C.G.S. 49-41(f), if any project is estimated to cost more than five hundred thousand dollars, the surety contract between the contractor named as principal in the bond and the surety that issues such bond shall contain the following provision:

"In the event that the surety assumes the contract or obtains a bid or bids for completion of the contract, the surety shall ensure that the contractor chosen to complete the contract is

pre-qualified, pursuant to CGS 4a-100, in the requisite classification and has the aggregate work capacity rating and single project limit necessary to complete the contract".

31. **Permits**

The Contractor shall at its own expense take out and possess all necessary permits if required and licenses required by law and necessary for the prosecution of the work under this Contract; including the posting of all bonds and payment of all fees and charges incidental to the due and lawful prosecution of the work covered by the Contract.

32. **Safety**

All work done and equipment used shall comply with all pertinent O.S.H.A., Federal, State, Municipal, and Local regulations, laws, ordinances and Regulations affecting those employed and any affecting the conduct of the work.

Not later than thirty (30) days after the date a contract is awarded, the awarded contractor shall furnish proof to the Labor Commissioner that all employees performing manual labor on or in such public project, pursuant to such contract, have completed a course of at least ten (10) hours in duration in construction safety and health approved by the federal Occupational Safety and Health Administration, or in the case of telecommunications employees, have completed at least ten (10) hours of training in accordance with 29 CFR 1910.268.

The State of Connecticut and all political subdivisions have adopted a zero tolerance policy for workplace violence. As outlined in Executive Order No. 16 issued by Governor John G. Rowland, all contractors, subcontractors, and vendors must comply with this policy.

33. **Personnel Requirements**

All work under the contract shall be performed by competent and proficient tradesman employed by the Contractor and under his supervision. Helpers and Apprentices may be used, but only under direct supervision of the job Foreman.

34. **Subcontractors**

The Contractor shall not sublet any portion of the work without written permission. In no case may it sublet more than 49% of the monetary value of the Contract. The major units of work of the Contract shall be performed by the Contractor. If the Contractor

sublets any part of the work, this does not relieve it or the bonding company of liabilities and obligations to the City. There is no contractual relationship between any subcontractor and the City. The Engineer deals only with the Contractor; subcontractors are recognized as employees only.

Bidders are required to provide the names of proposed subcontractors with submission of this bid. Bidders may be required to provide detailed information relative to the work proposed to be performed by the subcontractors, and the associated cost for the work proposed to be performed by the subcontractors, prior to any recommendation of award. If a Contractor is using subcontractors, the City of Bristol reserves the right to consider the qualifications of said subcontractors in determining the qualifications of the Contractor.

The Contractor must not assign or dispose of his Contract in any way without the written consent of the Engineer in conjunction with that of the Mayor. Disposal must be for a cause only.

**35. Freedom of Information Act**

All bids will be opened and read publicly and upon award are subject to public inspection, subject to the provisions of Section 1-210 of the Connecticut General Statutes (Freedom of Information). Copies of information resulting from any bid opening are generally not available until a contract has been formally awarded.

**36. Non-collusion**

The individual signing this bid hereby declares that no person or persons other than members of his/her own organization are interested in this Proposal or in the contract proposed to be taken; that it is made without any connection with any other person or persons making a proposal for the same work and is in all respects fair and without collusion or fraud; that no person acting for or employed by the City of Bristol is directly or indirectly interested therein, or in the supplies or works to which it relates or will receive any part of the profit or any commission therefrom in any manner which is unethical or contrary to the best interests of the City of Bristol. An affidavit form is included with this document; bidders are required to complete the form and include with their bid response.

**BID PROPOSAL**

CITY OF BRISTOL, CONNECTICUT 06010  
CONTRACT 2C11-014

**Replacement of Boiler Equipment at Bristol Board of Education**

Purchasing Office  
111 North Main Street  
Bristol, CT 06010

TO THE CITY OF BRISTOL:

The undersigned hereby declares that no Person or persons other than members of his own organization are interested in this Proposal or in the contract proposed to be taken; that it is made without any connection with any other person or persons making a proposal for the same work and is in all respects fair and without collusion or fraud; that no person acting for or employed by the City of Bristol is directly or indirectly interested therein, or in the supplies or works to which it relates or will receive any part of the profit or any commission therefrom in any manner which is unethical or contrary to the best interests of the City of Bristol. It is understood that the City, its agents and employees, are not to be, in any manner, held responsible for the accuracy of, or bound by any estimates relative to the work; all such estimates are to be considered solely for the purpose of filling out and comparing the several proposals.

The undersigned further declares that he has examined the site of the work, the general information, the plans and specifications and the form of contract, and will contract to provide all necessary tools, apparatus, freight, cartage and expense, and to do all the work and furnish all materials necessary to construct the proposed work in the manner and upon the conditions specified and the terms which follow herein.

The undersigned also agrees to furnish satisfactory performance and payment bonds with surety and to execute and deliver within 15 days after the notice of award, a formal contract with the City of Bristol for the fulfillment of this Proposal; and it is agreed, in case of failure or neglect on the part of the undersigned to do so, the City may determine the contract abandoned and declare the Proposal and acceptance null and void. The City may, at its option, declare the bid bond forfeited. No bid may be withdrawn for a period of 90 days after the opening of the bids.

The undersigned agrees to construct complete in place, including all labor, materials and equipment, "CONTRACT 2C11-014 - Boiler

Replacement at Bristol Board of Education" according to the attached specifications and plans for the unit prices and/or lump sum prices hereinafter listed, times the actual quantities of the completed work as computed by the Engineer.

The undersigned declares that the bidder is:

(a) A CORPORATION organized under the laws of the State of

\_\_\_\_\_ having its principal office

at \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

The principal officers, with their respective titles and addresses, are as follows:

Name	Title	Address
------	-------	---------

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(b) A PARTNERSHIP consisting of the following individuals with their addresses:

Name	Address
------	---------

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(c) AN INDIVIDUAL by the name of \_\_\_\_\_

and doing business as \_\_\_\_\_

Approx. Quantity	Description Written Unit Price	Unit Price	Total Price Amount
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In accordance with the attached specifications entitled "**Boiler Equipment Replacement at Bristol Board of Education Administration Building**"; the undersigned agrees to:

1. 1 LS. **Furnish and Install Boiler Equipment Replacement**; complete in place as ordered by the Engineer; including all labor, equipment, materials, tools, and incidentals thereto; at the lump sum price of;
 

	dollars and	
	cents.	\$_____

The TOTAL AMOUNT of this Bid, as computed by the Bidder is:  
 \_\_\_\_\_ DOLLARS

and \_\_\_\_\_ CENTS. \$\_\_\_\_\_

The undersigned is familiar with the conditions surrounding this call for bid and is aware that the City reserves the right to reject any and all bids or to accept any bids whether lowest or not if deemed for the best interest of the City, and is submitting this bid without collusion with any other person, individual or corporate.



**REFERENCES FOR SIMILAR WORK:**

COMPANY NAME/ADDRESS/PHONE NUMBER

REPRESENTATIVE

- 1. \_\_\_\_\_  
\_\_\_\_\_
- 2. \_\_\_\_\_  
\_\_\_\_\_
- 3. \_\_\_\_\_  
\_\_\_\_\_

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

**LICENSES:**

COMPANY/INDIVIDUAL NAME/ADDRESS/PHONE

LICENSE NUMBER

- 1. \_\_\_\_\_  
\_\_\_\_\_
- 2. \_\_\_\_\_  
\_\_\_\_\_
- 3. \_\_\_\_\_  
\_\_\_\_\_

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

**PROPOSED SUBCONTRACTORS:**

COMPANY/INDIVIDUAL NAME/ADDRESS/PHONE

LICENSE NUMBER

- 1. \_\_\_\_\_  
\_\_\_\_\_
- 2. \_\_\_\_\_  
\_\_\_\_\_
- 3. \_\_\_\_\_  
\_\_\_\_\_

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

CONTRACTOR SITE VERIFICATION FORM

Contract 2C11-014

Replacement of Boiler Equipment at Bristol Board of Education  
Administration Building

AN INDIVIDUAL by the name of \_\_\_\_\_

and representing \_\_\_\_\_  
(Company Name)

hereby attest that I have field walked the site for the above  
referenced project and am familiar with the existing conditions.

\_\_\_\_\_  
date            signature

By: \_\_\_\_\_

\_\_\_\_\_  
title



## CITY OF BRISTOL, CONNECTICUT NON-COLLUSION CERTIFICATION

The undersigned certifies under penalty of false statement that this proposal or contract has been made, submitted and executed in good faith and without collusion or fraud with any other person, and without any agreement designed to limit independent bidding or competition. As used in this certification, the word "person" shall mean any natural person, business, partnership, corporation, union, committee, club or other organization, entity or group of individuals.

I further certify that I have not provided or directed to be provided gifts, meals, or gratuities, as defined in Sec. 2-129(b) of the Bristol Code of Ordinances to any official or employee of the City of Bristol responsible for awarding or administering this bid or contract.

### Please complete and sign

Legal Name of Bidder: \_\_\_\_\_

Business Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Name of Authorized Agent \_\_\_\_\_ Title: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Employment Information Form



**City of Bristol**  
Workplace Analysis Affirmative Action Report  
Employment Information Form

Purchasing Department  
111 North Main Street  
Bristol, CT 06010

Company Name Street Address City State Zip	Contact Person	Phone Number	Date
--	----------------	--------------	------

Report all permanent full-time or part-time employees, including apprentice and on-the-job trainees. Enter the number on all lines and in all columns.

JOB CATEGORY	A. OVERALL TOTALS (sum of all columns, B-F Male & Female)	B. WHITE (not of Hispanic origin)		C. BLACK (not of Hispanic origin)		D. HISPANIC		E. ASIAN/PACIFIC ISLANDER		F. AMERICAN INDIAN OR ALASKAN NATIVE	
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Officers/Managers											
Professionals											
Technicians											
Sales Workers											
Office/Clerical											
Craft Workers (skilled)											
Operatives (semi-skilled)											
Laborers (unskilled)											
Service workers											
<b>TOTALS ABOVE</b>											

Do you use minority businesses as subcontractors or suppliers? <input type="checkbox"/> Yes <input type="checkbox"/> No	Explain:
If CT based, do you post all employment openings with the State Of CT Employment Service? <input type="checkbox"/> Yes <input type="checkbox"/> No	Explain:
Do you use an Affirmative Action Plan? <input type="checkbox"/> Yes <input type="checkbox"/> No	Explain:
Describe your recruitment, hiring, training and promotion anti-discrimination practices.	

CONTRACT

This AGREEMENT, made and concluded by and between the City of Bristol, a Municipal Corporation organized and existing under the laws of the State of Connecticut, acting herein by its Mayor, duly authorized, hereinafter designated the "City", party of the first part and

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(being the party named in the attached copy of the Proposal), hereinafter designated the "Contractor", party of the second part.

WITNESSETH, that said Contractor has agreed, and by these presents does for his, their, or its heirs, executors, administrators, successors, and assigns covenant, promise and agree to and with the said City for the consideration hereinafter mentioned and contained, and under the penalty expressed in Bonds hereunto annexed, that said Contractor shall and will, at his, its, or their own proper charge, costs and expense do and perform all the work and furnish all materials and labor necessary or proper, and build in good, firm and in substantial manner, with appurtenances of every kind complete in accordance with this Contract and the specifications which are a part hereof, and in accordance with such further plans and directions as have been made or may be made from time to time the work referred to as: "**CONTRACT 2C11-014 - Replacement of Boiler Equipment at Bristol Board of Education**" in the amount of \_\_\_\_\_ (\$\_\_\_\_\_).

All to be in accordance with the terms of the Proposal for said work submitted to the City of Bristol on \_\_\_\_\_ and accepted by said City on \_\_\_\_\_, \_\_\_\_\_ and made a part of this Contract.

The Information for Bidders, the Bid Proposal, General Provisions, the Specifications, together with Special Provisions, Addendum and the Bonds and any and all additions which may be inserted or attached to any or all of the sections listed above, together with the drawings named in the Information for Bidders are made a part of this Contract. The general features of said work are shown in the drawings referred to above which are made a part of this Contract. The Engineer shall furnish the Contractor with additional plans as may be necessary to show the details of construction, which are to be considered as illustrating the requirements and specifications set forth in this Contract and are to be followed by the Contractor in carrying out the work done hereunder. All work is to be performed under the direction and inspection of the City Engineer who shall interpret the intent and methods described in the plans and specifications.









MINUTES OF SPECIAL MEETING  
OF THE BOARD OF DIRECTORS

At a Special Meeting of the Board of Directors of \_\_\_\_\_  
\_\_\_\_\_

held at the office of \_\_\_\_\_  
(name)

\_\_\_\_\_ (address) \_\_\_\_\_ (City) \_\_\_\_\_ (State)

on \_\_\_\_\_, 20\_\_\_\_  
(day) (date)

the following business was transacted:

It was duly voted that \_\_\_\_\_  
(name)  
\_\_\_\_\_, is hereby authorized on  
(title)  
behalf of the Corporation to execute the Contract entitled

**CONTRACT 2C11-014 Replacement of Boiler Equipment  
at Bristol Board of Education**

between \_\_\_\_\_ and  
the City of Bristol.

The said \_\_\_\_\_ is hereby authorized  
to (name)  
sign this Contract and all other documents on behalf of the  
Corporation necessary to effectuate said Contract. Any and  
all actions in said capacity shall be binding on the  
Corporation and its assets.

There being no further business, the meeting was adjourned.

\_\_\_\_\_  
Secretary

WAIVER OF NOTICE OF SPECIAL MEETING

OF THE BOARD OF DIRECTORS

The undersigned, being all of the Board of Directors of \_\_\_\_\_

hereby waive written notice of a Special Meeting of the Board of  
Directors to be held at the Office of \_\_\_\_\_

on \_\_\_\_\_, 20\_\_\_\_, at \_\_\_\_\_ am/pm

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## **GENERAL PROVISIONS**

### **1. DISCREPANCIES, ERRORS AND OMISSIONS:**

The specifications are intended to be explanatory of each other, but should any discrepancy appear or any misunderstanding arise as to the import of anything contained in either, the interpretation and decision of the Engineer shall be final and binding on both parties to the Contract. Each section shall be a complete job and work implied shall be done as if specified or shown on the plans or required for a complete job under the respective work and shall be done by the Contractor without extra charge.

### **2. SUBMITTALS:**

The Contractor shall submit details or written statements of methods for the various units of the work as required by the Engineer, all of which shall be subject to the approval of the Engineer.

### **3. CONTRACTOR RESPONSIBLE FOR ENTIRE WORK UNTIL ACCEPTED:**

The Contractor shall have charge of and be responsible for the entire work until its final completion and acceptance, and any imperfect or unfaithful work or defective materials that may be discovered at any time before the final completion and acceptance of the work or work injured or destroyed by the elements or the public, shall be corrected immediately on the requirement of the Engineer.

The presence of an inspector shall not relieve the Contractor of responsibility because of failure due to poor materials or workmanship and if the work is obviously constructed in error.

### **4. WORK AND MATERIALS TO BE OF BEST QUALITY:**

All work done and materials furnished shall be new and of the best quality customarily used in or furnished for installations of this type. All materials shall be used in conformance with the manufacturer's recommendations. The absence of requirements or details in the specifications or drawings which are usually included in first-class work of this kind shall not excuse the Contractor for their omission in his work.

5. **DEFECTIVE WORK:**

The inspection of the work shall not relieve the Contractor of any of his obligations to fulfill his Contract as herein specified, and any defective work shall be made good, and any unsuitable materials shall be rejected, notwithstanding that such work and materials have been previously overlooked by the Engineer and accepted or estimated for payment. This shall cover any material furnished by the City which shall be damaged or rendered defective by handling or improper installation by the Contractor, his agents or employees and shall be made good and replaced at the Contractor's own expense.

6. **WORKERS, SUPERVISION, AND MAINTENANCE:**

The Contractor shall employ only competent, faithful, skilled, and proficient tradespeople to do the work required of them, and whenever the Engineer shall inform him that any man on the work is in his opinion incompetent or unfaithful, he shall discharge him from the work and shall not again employ him for work under this Contract. Helpers and Apprentices may be used, but only under direct supervision of the Job Foreman.

The Contractor shall keep a competent superintendent on the Project whenever work is being done, who shall receive orders in the Contractor's absence and shall obey them as if received by him personally.

Any Contractor whose place of business is located outside the City must make arrangements satisfactory to the Engineer for emergency repair work or protection that may be necessary during periods of shutdown of the work. If this is not done, the Engineer will make arrangements and any cost will be deducted from monies due the Contractor.

7. **COMPLIANCE WITH LAW:**

The Contractor shall keep himself informed of all existing laws, State, Federal, Municipal Ordinances and Regulations affecting those employed and any affecting the conduct of the work and shall protect and indemnify the City of Bristol, its officers and agents against any claim or liability arising from or based upon violation of any such law, ordinance, regulation, order of decree, whether by himself or his employees. All work performed and equipment used shall comply

with all pertinent OSHA, Federal, State and Local Regulations.

**8. OBLIGATION AND LIABILITY OF CONTRACTOR:**

The Contractor shall do all the work and furnish all the materials, tools and appliances unless otherwise specified and everything necessary or proper for performing and completing the work and within the time specified herein. He shall complete the work to the satisfaction of the Engineer and at the prices in the Proposal or as agreed under extra work.

The Contractor shall take all responsibility for work done under this Contract, for protection of work, for injuries to employees, for injuries to the public and damage to property and utilities on or about the work and the responsibility of anyone hired by him directly or indirectly. The Contractor shall assume the defense of all claims of whatsoever character against the Contractor, the City, and shall indemnify, save harmless and insure the City, its officers or agents against all claims arising from the work under this Contract.

**9. SUBLETTING OR ASSIGNMENT:**

The Contractor shall not sublet any portion of the work without written permission. In no case may he sublet more than 49% of the monetary value of the Contract. The major units of work of the Contract shall be performed by the Contractor.

If the Contractor sublets any part of the work, this does not relieve him or the bonding company of liabilities and obligations to the City. There is no contractual relationship between any subcontractor and the City. The Engineer deals only with the Contractor; subcontractors are recognized as employees only.

**10. WORK AREA:**

During the work, the Contractor shall not deposit material in such a manner so as to block or interfere with normal activities within the area. The Contractor shall erect adequate barricades as required to protect pedestrians from the work area.

During the progress of the work, during any shutdown, and until final acceptance of the work; the Contractor shall

maintain all areas within its control. Should the Contractor fail to perform such work upon order of the Engineer within a reasonable time, the Engineer will make arrangements to have the necessary work done and the cost of said work deducted from monies due the Contractor.

The Contractor shall make arrangements for disposal of surplus materials. The cost of disposal, landfill permits, associated dumping fees, shall be considered included in the total bid amount. The job site shall be left in a clean condition meeting the full satisfaction of the Engineer.

**11. PROGRESS AND FORFEITURE OF CONTRACT:**

If at any time the Engineer shall be of the opinion that the said work is unnecessarily delayed, and will not be finished in the prescribed time, or that the Contractor is willfully violating any of the conditions of the Contract, or is executing the same in bad faith, he shall notify the Contractor, in writing, to that effect. If the Contractor does not, within five (5) days thereafter, take such measures as will in the judgment of the Engineer insure the satisfactory completion of the work, the Engineer may then, in writing, notify the Contractor to discontinue all the work under the Contract. The Contractor shall immediately respect said notice and stop work and cease to have any rights to possession of the ground and shall not remove any portion of the plant or any materials after receiving such notice. The Engineer shall notify the Contract Surety, in writing, of his action and the reason(s) for such action. The Engineer shall report his actions to the City together with the reason(s) for such actions.

The City shall take such action as it deems necessary to complete the work under the Contract to the City's satisfaction. The City may rescind its notice to the Contractor to discontinue work and order the Contractor to complete the Contract within such terms as it may specify or the City may inform the Contract Surety of its (Contract Surety's) responsibility to complete the work as specified under the terms of the Contract. Surety shall elect to complete the work or have the City complete it. If the City completes the work, it shall thereupon have the power to direct the Engineer to place such and so many persons as he may deem advisable by contract, or otherwise, to work at and complete the work herein described and to use such materials as he may find upon the line of said work, or to procure other materials for the completion of the same and to charge

the expense, whether of labor or materials, or otherwise. to the Contract and the expense so charged shall be deducted and paid by the City out of such monies as may be then due or may at any time thereafter become due to the Contractor under and by virtue of the Contract or any part thereof; and in case such expense is less than the sum which would have been payable under the Contract if the same had been completed by the Contractor, said Surety shall be entitled to receive the difference. In case such expense is greater, the Contract Surety shall pay the amount of such excess due to the City.

**12. DELAY IN TIME OF COMPLETION, NO CLAIM FOR DAMAGES:**

The City may reasonably delay the beginning of the work or any part thereof, if necessary because of weather conditions. The Contractor shall have no claim for damages on account of said reasonable delay, but if a time clause is carried in the Contract, so much additional time shall be allowed as the Engineer computes such delay has influenced the completion by the Contractor. The Engineer shall certify such additional time in writing.

In case the Contractor shall suffer damage from loss of time, where the same is caused by or under the direction of the City, the condition of the weather, or by any circumstances so unusual that they could not be foreseen previous to or avoided during the construction of the work (all of which shall be determined by the Engineer who shall certify the same in writing); the time during which work was so suspended shall be excluded and the time of completion extended by a corresponding number of days.

Neither an extension of time for any reason beyond the date fixed for the completion of the work, nor the acceptance of any part of the work comprised in these specifications subsequent to the said date, shall be deemed to be a waiver by the said Contractor of the right to abrogate the Contract for abandonment or delay in the manner herein provided.

**13. STORAGE OF MATERIALS AND EQUIPMENT:**

The Contractor shall make arrangements to store his material, vehicles, equipment, etc. During the prosecution of the work, the Contractor shall not store material, equipment, vehicles, etc. within any area in such a manner so as to block or interfere with the flow of any other work.

14. **GUARANTEES:**

The Contractor shall guarantee all his work to be free from defects due to workmanship or material used for a period of one (1) year from the final completion of all work on the Contract. Said one (1) year period shall begin on the date of payment of the semi-final estimate by the City.

Should the Contractor, during the guarantee period upon notification by the Engineer in writing within five (5) days, fail to begin making necessary repairs to the satisfaction of the Engineer, action may be taken by the Engineer to have the repairs made either by using the City's own men and equipment, by force account or cost plus method, or by contract between the City and a contractor selected by the City. The cost shall be taken from monies due the Contractor. Any cost exceeding that held shall be paid by the Contractor or the City may call upon the bond Surety to pay said extra cost.

15. **CONTRACTOR, HIS INSURANCE CARRIER AND BOND SURETY, LIABLE FOR CLAIMS OR DAMAGES:**

It shall be the duty of the Contractor and his Insurance Carrier and Bond Surety to indemnify and save harmless the City from all suits or actions of any name or description, brought against them or the City for or on account of any injuries or damages received or sustained by any party or parties by or from the Contractor, his agents or employees in the construction of the work, or in consequence of any negligence in guarding the same or any improper materials used in its construction or by or on account of any act or omission of the Contractor, his agents or employees.

16. **RELEASE OF BONDS:**

The Performance Bond and Labor and Material Payment Bond shall not be released until final payment and final acceptance of the entire work is made as a guarantee against claims and suits that may be entered against the City for actions or negligence of the Contractor in the performance of the work. The 5% is retained to guarantee the repairs that may be ordered by the Engineer for defective materials or workmanship during the one (1) year maintenance period. The City reserves the right to retain in excess of the 5% should it deem additional guarantee necessary for legal claims against the City resulting from actions under this Contract.

**Contract 2C11-014**  
**Boiler Replacement & Chimney Liner Installation**  
**Technical Specifications**

**A. Demolition:**

1. Mechanical:

- a. Existing HB Smith 2500L nine section cast iron boiler complete including Carlin oil-fired burner and accessories removed by Owner.
- b. Two (2) existing Bell & Gossett Series 60 in-line circulating pumps and trim disconnected and removed by Owner.
- c. Existing cold water fill piping at connection to boiler, pressure reducing valve, and Watts 9D back flow preventer, disconnected and removed by Owner. Pipe capped and retained for reuse.
- d. Existing hot water supply, return piping, and thermal insulation, from boiler and pump connections back to risers at boiler room wall, disconnected and removed by Owner. Pipe risers have been capped and retained for reuse.
- e. Fuel oil supply and return piping at boiler burner has been disconnected, removed complete back to boiler room wall penetration.
- f. Existing 12" boiler breeching and barometric draft regulator disconnected and removed by Owner, back to masonry chimney.
- g. Existing cold water supply, hot water supply, and hot water re-circulation piping adjacent to existing water heater, disconnected and removed by Owner. Piping capped and retained for reuse.
- h. Existing 6" water heater vent connector disconnected and removed by Owner back to masonry chimney (existing water heater to remain).
- i. Existing combustion air duct and grille, from boiler room interior wall back to mechanical louver in exterior wall, removed by Owner.
- j. Existing 2" natural gas supply, from meter outlet into Building Utility Corridor, disconnected and removed by Owner. Cap piping in corridor capped, and existing branch piping retained for reuse, by Owner.

2. Electrical:

- a. Three phase power wiring from each pump motor starter removed and retained by Owner.
- b. Single phase power wiring from oil burner control panel disconnected and wiring, conduit and boiler emergency switches (in room and outside of room) retained for reuse.
- c. Single phase power wiring and conduit from all boiler controls disconnected and removed by Owner.

## **B. New Construction:**

### 1. Mechanical:

a. Furnish and install two (2) Smith Model 19A-6 cast iron sectional hot water boilers. Acceptable equal boilers shall be by Burnham and Weil-Mclain. Boiler shall have a nominal rating of 22 BHP, 59.7 sq/ft heating surface, 738 Mbh I-B-R gross output, 642 Mbh I-B-R net output with 931 Mbh I-B-R burner capacity. Boiler shall be wet-base construction tested for 80 psi and furnished complete with insulated metal jacket, cast iron smoke hood with integral damper, burner mounting plate with insulation block, front and rear flame observation ports, steel angle floor rails, hi-temp hydronic port seals, flue brush target wall, ASME relief valve set at 40 psi, theraltimeter, manual reset hi-limit control and lolimit operating control. Assemble and install boilers and provide adequate service clearance around boilers in accordance with the manufacturers written instructions. Coordinate exact location of boilers with existing conditions and all other trades.

b. Furnish and install a new concrete equipment pad for each boiler. Pads shall extend minimum 6" beyond the length and width of the boilers and be a minimum of 6" high. Provide chamfered edge around entire perimeter of pad. Set top of pad level. Location of pads based on placement of boilers.

c. Furnish and install on each boiler a PowerFlame Model J30A-10 natural gas burner. Burner capacity shall be matched to boiler rating and certified for use with the specified boiler to insure that the boiler I-B-R rating is achieved. Burner shall be high performance , forced draft, UL listed power gas burner for natural gas firing and include on-off firing, fixed air shutter combustion control, 115 volt diaphragm gas shut-off valve, 115 volt solenoid auxiliary gas valve, spark ignited intermittent gas pilot, pilot gas train with solenoid valve, pressure regulator, manual shut-off cock, pilot tubing and fittings. Gas train assembly shall be suitable for an operating range of 7-14" W.C. Burner motor shall be 1/3hp/120v/60 Hz, single phase. Contractor shall field assemble gas train components.

d. Burner Installation - Install burner on boiler in strict accordance with the boiler and burner manufacturers written instructions. Assemble and connect new main gas train to burner and new service, connect pilot gas.

e. Boiler/burner Start-up Adjustment & Warranty - Start burner & test for proper operation of all safety & operating controls; adjust new draft controls: set combustion (fuel air ratio), record firing rate (fuel input), gas manifold pressure, burner combustion air pressure, overfire (furnace) draft, O<sub>2</sub>, CO, stack temperature @ boiler outlet, ambient air temperature, boiler water temperature efficiency % and flame signal.

f. Furnish and install a new boiler staging control system equal to Tekmar Series 264. Controller shall provide for boiler PID staging, boiler lead/lag operation, hot water reset by outdoor air temperature, boiler minimum supply temperature to prevent thermal shock and flue gas condensation, warm weather shutdown and Tekmar Series 132 pump sequencer for heating pump lead/lag control. Provide all required control transformers, control wiring (in conduit),

indoor and outdoor temperature sensors, differential pressure sensor and control relays to provide for a complete and functioning system. Install temperature sensors in location as recommended by the manufacturer. Coordinate location of controller installation with all existing conditions and all other trades.

g. Furnish and install new in-line air separator equal to Bell & Gossett Rolairtrol Model RL-3 tangential type air separator. Install air separator between boiler outlet header and pump suction connections. Provide isolation valves on inlet and outlet. Furnish and install new floormounted, diaphragm -type expansion tank equal to Bell & Gossett Model D-120V. Connect 1" line from tank to system supply main in accordance with the manufacturer's recommendations. Field verify exact location and available space and coordinate with new equipment, existing conditions and all other trades.

h. Furnish and install two (2) new in-line heating pumps equal to Bell & Gossett Series 60, 2x2x7, 6.75" impeller, 67% efficiency, 208v, 3 phase 3 hp 1750 rpm motor, 100 gpm @ 45' TDH. Pumps sized for lead/lag operation. Provide at each pump a suction strainer and ball type isolation valve at pump inlet and triple duty valve at pump discharge. Ball valves shall be equal to Conbraco; MSS S-110 Class 150; 400psi CWP; bronze body. Install pumps downstream of air separator. Install pumps at elevation required so that manufacturer's minimum NPSH is achieved.

i. Extend existing 1/2" domestic cold water supply piping to new boiler system fill connection point. Field verify connection points. Piping shall be Type L copper, ASMT B 88; fittings shall be cast copper alloy ASME B16.18 with ASTM B 32 alloy Sn95 solder joints. Provide ball type isolation valves at equipment connections and connections to existing piping equal to Conbraco; MSS S-110 Class 150; 400psi CWP; bronze body. Insulate new DHW piping with 1" rigid fiberglass insulation with vapor barrier and Zeston PVC fitting covers in accordance with the requirements of the 2003 International Energy Conservation Code. Install Watts 009 reduced pressure back flow preventer in cold water supply to system. Pipe air gap fitting discharge down to floor. Install Bell & Gossett FB-38 automatic water feed valve downstream of backflow preventer.

j. Provide new 8" dia. breeching from each boiler and connect to a common 10" dia. breeching. Run 10" dia. breeching to existing masonry chimney and connect 4" dia. breeching from existing domestic hot water heater draft hood to 10" dia. breeching prior to entrance to masonry chimney. Breeching shall be equal to Metal-Fab Model PSW, factory built system. Provide all necessary fittings, connectors etc. Install in accordance with the boiler and chimney manufacturers requirements. Connect to new masonry chimney liner system specified herein. Provide a Field Controls model M+MG2 barometric draft regulator w/ spill switch in new boiler breeching vertical rise per manufacturer's recommendations.

k. Furnish and install a new 10" dia. chimney liner system for the existing masonry chimney. The existing chimney is estimated to be 70' tall. The chimney liner shall be equal to Metal-Fab Model PSW, single-wall, factory built chimney which conforms to the requirements of NFPA- 211. Product shall be designed for the venting of flue gasses exhausted at a temperature up to 1000 deg. F continuously and at a pressure up to 60 inches w.g. The pipe wall

shall be constructed of 0.035" thick type 316 stainless steel for diameters 6" through 36" and 0.048" thick for diameters 38" through 48". Pipe shall be installed so as to maintain a minimum clearance to combustibles of eighteen inches or when used to re-line masonry or concrete chimneys. Clearance shall be as required for installation. All supports, drain caps, appliance adapters, fittings and expansion joints required to install the chimney shall be included. Single-wall pipe shall not be used to penetrate a combustible roof unless used to re-line a masonry or concrete chimney, which penetrates the roof. Installation shall be in accordance with the manufacturer's installation instructions. Contractor shall provide masonry infill around liner at the point of exit from the masonry chimney in accordance with the manufacturer's recommendations. Contractor shall include all required costs for staging, rigging, crane rental, etc. to complete the installation.

l. Furnish and install new 3" hot water heating supply and return piping from existing risers to new boilers, pumps and specialties, etc. Piping shall be minimum schedule 40, ANSI/ASME B36.10, ASTM A53. Fittings shall be steel or malleable iron. Piping shall be threaded up to 2-1/2" diameter, over 2-1/2" piping shall be flanged. Shutoff valves shall be ball type isolation valves at equipment connections and connections to existing piping equal to Conbraco; MSS S-110 Class 150; 400psi CWP; bronze body. Provide ball valve with hose bib connection at top of risers in 2nd floor utility room to facilitate system venting. Provide stem-type thermometer, ASTM E1, 9" scale, adjustable angle, separable socket, 0-300 deg. F range on system supply and return mains. Provide 4-1/2" dia. pressure gauge, ASME B40.100, UL 393 with gage cock at suction and discharge of each pump and across pump strainer. Provide hangers and seismic bracing as required by listed codes. Maximum hanger spacing shall not exceed 10 feet. Install all piping and system specialties in accordance with the 2003 International Mechanical Code. Insulate new HW piping with 1-1/2" rigid fiberglass insulation with vapor barrier and Zeston PVC fitting covers in accordance with the requirements of the 2003 International Energy Conservation Code.

m. Natural gas piping shall be minimum schedule 40, ANSI/ASME B36.10, ASTM A53. Fittings shall be steel or malleable iron. Piping shall be threaded up to 2-1/2" diameter, over 2-1/2" piping shall be flanged. Shutoff valves shall be plug type, heavy duty, iron body construction, flat head type with brass plugs and washer, CSA/UL tested and approved. Provide hangers and seismic bracing as required by listed codes. Maximum hanger spacing shall not exceed 10 feet. Exposed piping shall have two coats of yellow paint and pipe identification per ANSI standards. Gas pipe shall be tested in accordance with the requirements of NFPA 54, the Connecticut Gas Code, the 2003 International Plumbing Code and the Utility company requirements.

n. Provide new 4" natural gas supply from existing service, downstream of new meter, adjacent to Building Utility Corridor. Provide 2" branch from main and connect to existing 2" branch to existing storage building and DHW heater. Reduce pipe size to 3" after branch and extend to new boilers. Provide 2-1/2" drop with shut-off valve down to each boiler gas train. Seal pipe penetration at Building Utility Corridor wall penetration with 3-M- FS-195 intumescent fire stop material in accordance with UL CAJ1006 1hr rated assembly. Provide gas pressure regulator in 2" line serving

Storage Building and DHW heater equal to Sensus 143-80-2, 1" NPT w/internal relief valve, green spring, having a minimum capacity of 355 cfh with 14" w.c. inlet pressure and 7" w.c. outlet pressure. Install in accordance with NFPA 54 and the 2003 International Plumbing Code (IPC). Provide drip leg at all low points and at each gas train connection in accordance with the boiler manufacturer's recommendations. Coordinate pipe routing with all existing conditions and all other trades. Coordinate gas meter upgrade (by utility) with Owner and Yankee Gas.

o. Provide new 32"x 20"x 24" combustion air plenum behind existing mechanical louver. Run new 40"x 14" combustion air duct from plenum to boilers location. Modify opening in existing masonry wall and coordinate relocation of existing electrical conduit as required with electrical contractor. Provide 36" x 14" drop down to 12" A.F.F. in accordance with the 2003 International Mechanical Code. Connect existing 12" x 6" elevator machine room duct to new duct at ceiling elevation. Exact locations to be field verified and coordinated with all new work, existing conditions and other trades. Fabricate and install ductwork in accordance with the SMACNA Manuals, current edition. Insulate all ductwork with 1-1/2" duct wrap equal to Manville Microlite 100.

p. Upon completion of installation of new boiler/water heater breeching system re-connect existing domestic cold water, hot water and hot water recirculation piping connections to existing water heater. Modify piping as required to accommodate field conditions. Re-insulate piping to match existing.

q. Upon completion of the new boiler system the Contractor shall provide start-up and testing of the boilers/burners as specified herein along with start-up and testing of the new heating pumps and control system components.

r. Contractor shall include the cost for all necessary permits and fees in the price of his bid. All work shall be done in accordance with ALL current State and Local Codes. Contractor shall provide a one (1) year warranty on all workmanship and materials provided under this contract and the boiler manufacturer's extended warranty.

## 2. Electrical:

a. Connect existing heating boiler power feed to new boilers junction box. Extend existing feeder as required. Match existing materials. Coordinate conduit routing with all existing conditions and all other trades. Typical for two.

b. Provide new disconnect switch w/ burner plate in Boiler Room and at entrance door to Boiler Room. Install new switches adjacent to existing switches. Wiring to be min. 2- #12 conductors in min. 3/4" conduit. Connect switches to burner control panel safety circuits in accordance with the manufactures requirements. Coordinate work with Mechanical Contractor.

c. Provide new 120v power wiring to new boiler burner staging control panel from existing electrical service. Provide 20a 1P breaker in existing empty space, compatible with existing panelboard. Field verify make and model. Wiring to be min. 2- #12 conductors in min. 3/4" conduit. Terminate circuit adjacent to boiler staging controller in junction box with disconnect switch. Coordinate work with Mechanical Contractor.

d. Provide new wiring from barometric damper spill switch to burner control panel. Wiring to be min. 2- #12 THHN conductors in min. ¾" conduit. Coordinate work with Mechanical Contractor. Typical for two.

e. Furnish and install a new motor starter for each new heating pump. Starter shall be by Eaton/Cutler-Hammer, Square D or Siemens. Starter shall be NEMA size 0, NEMA ICS 2, AC general purpose, Class A, magnetic controller, full-voltage controller, 120v operating coil NEMA ICS 2 bi-metal overload relays, NEMA ICS 6 Type 1 enclosure, NEMA ICS 2, 2 normally open auxiliary contacts, transformer type incandescent indicating lights hand-off-auto rotary type selector switch and control transformer with 120v secondary, fused primary, secondary and bond un-fused leg of secondary to enclosure. Provide non-fused disconnect assembly NEMA KS 1, with externally operable handle integral to the starter enclosure. Connect existing power feed to line side of starter and run new feeder from load side to new pump motor. Wiring to be min. 2-#12 conductors in min. ¾" conduit. Install in accordance with the manufacturer's written instructions. Coordinate work with Mechanical Contractor. Typical for two.

d. Furnish and install a thermal cut-off switch above each boiler. Switch shall be Preferred Utilities Catalog Number 13083 Fusomatic Electric Cut-off Switch. Switch shall incorporate a fusible element set for 165 deg. F and an electrical rating of 9.8 amps, 1/2HP @ 120 VAC. Provide junction box, conduit and 120v power wiring from switch to burner panel safety circuit. Wiring to be min, 2- #12 THHN conductors in min. ¾" conduit. Field verify connection point. Coordinate work with Mechanical Contractor.

e. Update panelboard directories as required.

f. All work shall be done in accordance with ALL current State and Local Codes.



*City of Bristol*  
BRISTOL, CONNECTICUT 06010

**Invitation to Bid 2C11-014**  
**Replacement of Boiler Equipment at Bristol Board of Education**  
**Addendum 01**  
**August 6, 2010**

**Please note the following changes:**

Section 15000 A.1.j. is modified to read as follows:

Existing 2" natural gas supply, from meter outlet into Building Utility Corridor, disconnected and removed by **Contractor**. Cap piping in corridor capped, and existing branch piping retained for reuse by **Contractor**.

Index to Contract Document is modified as follows:

Reference to Sheet S01 is removed; there is no Sheet S01.

A copy of attendance at the prebid meeting is attached for reference only.

Questions regarding the specifications must be received in writing by the Purchasing Agent no later than 5:00 pm on Wednesday, August 11, 2010.

All other terms and conditions remain unchanged.

A handwritten signature in cursive script that reads "Roger D. Rousseau".

Roger D. Rousseau  
Purchasing Agent  
Tel (860) 584-6195  
Fax (860) 584-6171

**RETURN THIS FORM IMMEDIATELY!**

City of Bristol, Connecticut  
Acknowledgment: Receipt of Bid Documents

Bid Number: **2C11-014**

Title: **Replacement of Boiler Equipment at Bristol  
Board of Education  
Addendum 01**

Please take a moment to acknowledge receipt of the attached bid documents. Your compliance with this request will help us to maintain proper follow-up procedures while ensuring that all recipients have the opportunity to submit proposals.

Date Addendum 01 was issued August 6, 2010

Date Addendum 01 was received \_\_\_\_/\_\_\_\_/\_\_\_\_

Do you plan to submit a bid? Yes\_\_\_\_ No\_\_\_\_

Print or type the following information:

Company name: \_\_\_\_\_

Address: \_\_\_\_\_

City or Town: \_\_\_\_\_

Phone: \_\_\_\_\_

Fax: \_\_\_\_\_

Email: \_\_\_\_\_

Received by: \_\_\_\_\_

**Note: Faxed acknowledgments are requested!**

**FAX (860)584-6171**

**A cover sheet is NOT necessary.**

**IMPORTANT: DO NOT FAX PROPOSALS.**

**PROPOSALS MUST BE SUBMITTED IN SEALED PACKAGES**



**CITY OF BRISTOL**  
**Bidder's Conference Attendance Sheet**

Bid # 2C11-014  
Boiler Replacement – BOE Admin

Date: August 5, 2010  
Time: 10:00 am  
Place: 129 Church Street  
**MANDATORY**

Company Name <i>HHS Mech</i>		Individual Name <i>Robert Kaczynski</i>	
Address <i>80 Colonial Rd</i>			
City <i>Manchester</i>	State <i>CT</i>	Zip <i>06042</i>	
Tel <i>860-643-3939</i>	Fax <i>860-643-3977</i>	Email (if available) <i>Rob@HHS-Mech.com</i>	

Company Name <i>OAKland LLC</i>		Individual Name <i>Charlie</i>	
Address <i>P.O. Box 531 Bristol 30 Genesee St</i>			
City <i>Bristol</i>	State <i>ct.</i>	Zip <i>06010</i>	
Tel <i>860 5991234</i>	Fax	Email (if available) <i>OAKlandllc@gmail.com</i>	

Company Name <i>CENTRAL MECHANICAL</i>		Individual Name <i>MIKE BORNY</i>	
Address <i>11 PROGRESS DRIVE</i>			
City <i>Cromwell</i>	State <i>CT</i>	Zip <i>06416</i>	
Tel <i>860-632-5500</i>	Fax <i>860-632-5544</i>	Email (if available) <i>centralmech@aol.com</i>	

Company Name <i>SK Mechanical, LLC</i>		Individual Name <i>Kevin Sperry</i>	
Address <i>266 Center Street</i>			
City <i>Manchester</i>	State <i>CT</i>	Zip <i>06040</i>	
Tel <i>860 533 2320</i>	Fax <i>860 533 9007</i>	Email (if available) <i>KSperry@SKmechanical-llc.com</i>	

Company Name <i>Stewart Mechanical Services</i>		Individual Name <i>David Veillette</i>	
Address <i>1495 Thomaston Ave</i>			
City <i>Waterbury</i>	State <i>ct.</i>	Zip <i>06704</i>	
Tel <i>203-2575-0440</i>	Fax <i>203-575-0424</i>	Email (if available) <i>stewart@stewartmechanical@aol.net</i>	



**CITY OF BRISTOL**  
**Bidder's Conference Attendance Sheet**

Bid # 2C11-014  
Boiler Replacement – BOE Admin

Date: August 5, 2010  
Time: 10:00 am  
Place: 129 Church Street  
**MANDATORY**

Company Name <i>Jensen Equip.</i>		Individual Name <i>Art Parent</i>
Address		
City <i>New Hps Ct</i>	State	Zip
Tel <i>860-738-2800</i>	Fax	Email (if available) <i>SALES@JENSENequipment.net</i>

Company Name <del>CHASE MECHANICAL</del>		Individual Name
Address		
City	State	Zip
Tel	Fax	Email (if available)

Company Name <i>M.J. Daly LLC</i>		Individual Name <i>Chris Maudsley</i>
Address <i>110 Mattatuck Heights</i>		
City <i>Waterbury</i>	State <i>CT</i>	Zip <i>06705</i>
Tel <i>203-706-1810</i>	Fax <i>203-755-1969</i>	Email (if available) <i>cmoudsley@mjdalyllc.com</i>

Company Name <i>CREST MECHANICAL</i>		Individual Name <i>PETER HARVEY</i>
Address <i>1841 BROAD ST</i>		
City <i>HARTFORD</i>	State <i>CT</i>	Zip
Tel <i>860-724-3431</i>	Fax <i>860-251-7132</i>	Email (if available) <i>pharvey@crestmechanical.com</i>

Company Name <i>CHASE MECHANICAL CONT.</i>		Individual Name
Address <i>196 EAST MAIN ST</i>		
City <i>THOMASTON</i>	State <i>CT</i>	Zip <i>06787</i>
Tel <i>860-283-6408</i>	Fax <i>860-283-6019</i>	Email (if available) <i>WC@CHASEMECHANICAL.COM</i>



**CITY OF BRISTOL**  
**Bidder's Conference Attendance Sheet**

Bid # 2C11-014  
Boiler Replacement – BOE Admin

Date: August 5, 2010  
Time: 10:00 am  
Place: 129 Church Street  
**MANDATORY**

Company Name <i>Eastern Boiler Repair Inc</i>		Individual Name <i>Sylvain Carriere</i>	
Address <i>13 Cobblestone Rd.</i>			
City <i>Burlington</i>	State <i>CT</i>	Zip <i>06013</i>	
Tel <i>860-673-3092</i>	Fax <i>860-314-1469</i>	Email (if available) <i>svlucain.ebr@hotmail.com</i>	

Company Name <i>County Wide Mechanical Services</i>		Individual Name <i>Cheryl Byrne</i>	
Address <i>253 Grace Ave Rear</i>			
City <i>Meriden</i>	State <i>CT</i>	Zip <i>06062</i>	
Tel <i>860 818-3891</i>	Fax <i>860 673 9830</i>	Email (if available) <i>countwidemechanicalservices@hotmail.com</i>	

Company Name <i>All State Construction</i>		Individual Name <i>John Corlon</i>	
Address <i>449 Cook ST</i>			
City <i>Farmington</i>	State <i>Conn</i>	Zip <i>06032</i>	
Tel <i>860-678-0678</i>	Fax <i>860-676-8910</i>	Email (if available) <i>www.allstateconstruction-inc.com</i>	

Company Name <i>Frank Boiler Works, Inc</i>		Individual Name <i>Rich Casella</i>	
Address <i>18 Norwalk St</i>			
City <i>West Haven</i>	State <i>CT</i>	Zip <i>06516</i>	
Tel <i>(203) 934-3066</i>	Fax <i>(203) 934-1215</i>	Email (if available) <i>rich@fbw1928esbcglobal.net</i>	

Company Name		Individual Name	
Address			
City	State	Zip	
Tel	Fax	Email (if available)	



*City of Bristol*  
**BRISTOL, CONNECTICUT 06010**

**Invitation to Bid 2C11-014**  
**Replacement of Boiler Equipment at Bristol Board of Education**  
**Addendum 02**  
**August 9, 2010**

**Please note the following changes:**

Section 15000 B.1.j. is modified to read as follows:

- j. Provide new 8" dia. breeching from each boiler and connect to a common 10" dia. breeching. Run 10" dia. breeching to existing masonry chimney and connect 4" dia. breeching from existing domestic hot water heater draft hood to 10" dia. breeching prior to entrance to masonry chimney. Breeching shall be equal to Metal-Fab Model ~~PSW~~ **PIC**, factory built system. Provide all necessary fittings, connectors etc. Install in accordance with the boiler and chimney manufacturers requirements. Connect to new masonry chimney liner system specified herein. Provide a Field Controls model M+MG2 barometric draft regulator w/ spill switch in new boiler breeching vertical rise per manufacturer's recommendations.

All other terms and conditions remain unchanged.

Roger D. Rousseau  
Purchasing Agent  
Tel (860) 584-6195  
Fax (860) 584-6171

**RETURN THIS FORM IMMEDIATELY!**

City of Bristol, Connecticut  
Acknowledgment: Receipt of Bid Documents

Bid Number: **2C11-014**

Title: **Replacement of Boiler Equipment at Bristol  
Board of Education  
Addendum 02**

Please take a moment to acknowledge receipt of the attached bid documents. Your compliance with this request will help us to maintain proper follow-up procedures while ensuring that all recipients have the opportunity to submit proposals.

Date Addendum 02 was issued August 9, 2010

Date Addendum 02 was received \_\_\_\_/\_\_\_\_/\_\_\_\_

Do you plan to submit a bid? Yes\_\_\_\_ No\_\_\_\_

Print or type the following information:

Company name: \_\_\_\_\_

Address: \_\_\_\_\_

City or Town: \_\_\_\_\_

Phone: \_\_\_\_\_

Fax: \_\_\_\_\_

Email: \_\_\_\_\_

Received by: \_\_\_\_\_

**Note: Faxed acknowledgments are requested!**

**FAX (860)584-6171**

**A cover sheet is NOT necessary.**

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**PROPOSALS MUST BE SUBMITTED IN SEALED PACKAGES**



*City of Bristol*  
**BRISTOL, CONNECTICUT 06010**

**Invitation to Bid 2C11-014**  
**Replacement of Boiler Equipment at Bristol Board of Education**  
**Addendum 03**  
**August 11, 2010**

**Please note the following clarifications regarding venting:**

Storage Building – Run 1” vent from regulator location thru exterior wall and terminate with down turn elbow with screen minimum 8’-0” above grade and 10’-0” from operable windows in accordance with the requirements of NFPA 54 and the Connecticut Gas Code.

Boiler Gas Trains – Run individual 1” vent from each boiler main gas regulator and diaphragm gas valve locations in accordance with the manufacturer’s recommendations thru exterior wall adjacent to exhaust air existing oil tank vent and terminate with down turn elbow with screen minimum 8’-0” above grade and 10’-0” from operable windows in accordance with the requirements of NFPA 54 and the Connecticut Gas Code.

All pipe and fitting materials shall be as specified.

All other terms and conditions remain unchanged.

Roger D. Rousseau  
Purchasing Agent  
Tel (860) 584-6195  
Fax (860) 584-6171

**RETURN THIS FORM IMMEDIATELY!**

City of Bristol, Connecticut  
Acknowledgment: Receipt of Bid Documents

Bid Number: **2C11-014**

Title: **Replacement of Boiler Equipment at Bristol  
Board of Education  
Addendum 03**

Please take a moment to acknowledge receipt of the attached bid documents. Your compliance with this request will help us to maintain proper follow-up procedures while ensuring that all recipients have the opportunity to submit proposals.

Date Addendum 03 was issued August 11, 2010

Date Addendum 03 was received \_\_\_\_/\_\_\_\_/\_\_\_\_

Do you plan to submit a bid? Yes\_\_\_\_ No\_\_\_\_

Print or type the following information:

Company name: \_\_\_\_\_

Address: \_\_\_\_\_

City or Town: \_\_\_\_\_

Phone: \_\_\_\_\_

Fax: \_\_\_\_\_

Email: \_\_\_\_\_

Received by: \_\_\_\_\_

**Note: Faxed acknowledgments are requested!**

**FAX (860)584-6171**

**A cover sheet is NOT necessary.**

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**PROPOSALS MUST BE SUBMITTED IN SEALED PACKAGES**