

School Administrative Unit No. 80
Serving the Communities of Belmont and Canterbury

Shaker Regional School District
58 School Street
Belmont, NH 03220

REQUEST FOR PROPOSAL
BELMONT ELEMENTARY SCHOOL SPRINKLER SYSTEM

January 14, 2010

The Shaker Regional School District (SAU 80), Belmont, NH is soliciting proposals from qualified firms to **Furnish and Install a 100% code-approved automatic sprinkler system to cover the entire Belmont Elementary School building**. Work to commence no earlier than June 28, 2010 and project must be completed no later than August 5, 2010. Prospective bidders are advised to read this information over carefully prior to submitting a proposal.

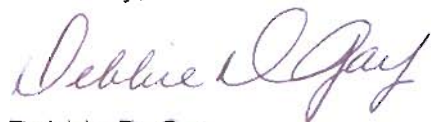
Bidders must provide four copies of the Bid Schedule in a sealed enveloped plainly marked:

"**Belmont Elementary School Sprinkler System**" and sent to:
Shaker Regional School District
Debbie D. Gay, Business Administrator
58 School Street
Belmont, NH 03220

A public opening of the proposals will take place on **Thursday, January 28, 2010 at 3:00 pm** at the Superintendent of Schools Office. **Proposals must be received no later than that date and time**. It is expected that the final award will be decided at a meeting of the Buildings and Grounds Committee as soon as possible after the opening.

Technical questions concerning this RFP and requests for site visits should be directed to Mr. Douglas Ellis, Director of Buildings and Grounds, at 603-267-9223 or e-mail at delis@shaker.k12.nh.us.

Sincerely,



Debbie D. Gay
Business Administrator

BELMONT ELEMENTARY SCHOOL
SPRINKLER SYSTEM SPECIFICATIONS

I. INTENT

- A. Furnish and install all labor and materials including all incidentals required to provide a 100% code-approved automatic sprinkler system to cover the entire building.

II. CODES AND PERMITS

- A. All work under this contract shall comply fully with NFPA 13, 14 and with requirements, rules and regulations of agencies having jurisdiction including the Belmont Fire Department.
- B. Any work completed by the contractor that must be changed in order to conform to regulations and codes, shall be made at the sprinkler contractor's expense.
- C. Any conditions in the specifications that are contrary to such regulations shall be brought to the attention of the Shaker Regional School District.
- D. Permits and fees shall be obtained and paid for by the sprinkler contractor.
- E. Prior to installation, the sprinkler contractor must submit detailed construction drawings and have them approved by the agency having jurisdiction. Obtain certification of inspection and approval from same agency.

III. SCOPE OF WORK

The sprinkler system scope of work shall include, but is not limited to, the following:

1. Complete and detailed working drawings.
2. Drain and test connections.
3. Sprinklers and fittings.
4. Valve stations, alarm and tamper switches.
5. Supports, hangers, inserts
6. Valves and gauges.
7. Valve seals, tags and charts.
8. Standpipe/hose stations with cabinets
9. In lieu of drawings showing accurate location of existing main water lines, Contractor must submit a cost per linear foot and cost per test pit, including backfilling. (See bid form)
10. All cutting, patching, excavating, and backfilling.
11. Electrical Controls and connection to Fire Alarm System
12. Allowance for branch line tie-in for future expansion (3100 sq. ft.) at front entrance of the building.
13. Replacement of all ceiling grids and tile damaged during construction.
14. Supply hydraulic/system design calculation plaque attached to system per code and Owner's insurance company specifications.
15. The Contractor, throughout the term of this Agreement, will maintain at their sole cost and expense the following insurance:
 - a General Liability Insurance for the minimum limit of \$1,000,000 per occurrence, subject to a \$2,000,000 aggregate
 - b Automobile Liability Insurance with a minimum limit of liability of \$1,000,000 combined single limit for bodily injury and property damage
 - c The District shall be named as an Additional Insured on the above policies
 - d Worker's Compensation insurance as required by law
 - e Property Insurance for the Contractor's Business Personal Property and tools used on this project. The Contractor shall assume any deductibles on the above described insurance policies.
 - f Professional Liability (E&O) for a minimum limit of \$1,000,000 per claim

16. The Contractor hereby agrees to indemnify, investigate, protect, defend and save harmless the Owner, their officials, officers, agents and employees, from any and all claims, and losses occurring or resulting from their activities in connection with the performance of this contract.

IV. TIME FOR COMPLETION

- A. Work cannot begin before June 28, 2010.
- B. Work must be completed by August 5, 2010.
- C. If the Contractor fails to complete the work by August 5, 2010 the Contractor shall pay the Owner damages in the amount of one thousand five hundred dollars (\$1,500) per day for each day after August 5, 2010.

V. SUBMITTALS

The following submittals shall be provided to Shaker Regional School District for approval. Materials and products not approved may not be used in construction.

- A. After contract has been awarded and previous to purchase or fabrication, shop drawings showing layout of entire system with design engineer stamp, sprinkler heads, valve stations, standpipes, and alarm appurtenances, valves, etc. The layout shall show sprinkler locations and clearances relative to ductwork, conduit, lights, air diffusers, etc.
- B. Preconstruction video tape or photos, on CD Rom
- C. CPM Schedule in Ghant Chart Format sufficient for owner to monitor the work.
- D. The Contractor shall furnish, upon submission of the bid, a bid bond in the amount of five percent (5%) of the contract bid price.
- E. The Contractor shall be required to furnish a one hundred percent (100%) performance bond of the contract bid price.
- F. The Contractor shall be required to furnish a one hundred percent (100%) payment bond of the contract bid price.

VI. MATERIALS AND SUBSTITUTIONS

- A. Sprinkler equipment shall be new and conform to the standards established in these specifications, and selected from "List of Inspected Fire Protection Equipment and Materials", published annually by UL and shall bear UL approved stamp or label.
- B. Trade names and specific manufacturers' model numbers define type and quality of materials and equipment required.
- C. Bid shall include all methods, materials, equipment, etc. as required to provide a complete installation.
- D. Uniformity – Unless otherwise specified, equipment or materials of the same type or classification used for the same purpose shall be the product of the same manufacturer.

VII. WORKMANSHIP

- A. All work shall be executed in a workmanlike manner and shall present a neat mechanical appearance when completed. Work not approved by the Owner shall be replaced by the sprinkler contractor without additional charge.
- B. All piping, in general, shall be run as straight and direct as possible, forming right angles or parallel lines with the building walls and other pipes, and be neatly spaced.

- C. All areas affected by the construction shall be returned to the original state as documented in the preconstruction videos and/or photos.

VIII. TESTS AND FLUSHING

- A. After completion, the sprinkler contractor will subject sprinkler system to tests required by and in the presence of representatives of Belmont Fire Department and Owner. Conduct, duration, and other details not covered by agencies' requirements, shall be in accordance with NFPA Pamphlet 13 (latest edition).
- B. Provide instruments and equipment, and pay expenses incurred in conducting the test; obtain approvals and certificates upon the completion of test.
- C. The system shall be thoroughly flushed before sprinklers are in place in order to free the system from any obstructing material which might clog the orifices of the sprinklers.
- D. Where evidence of stoppage appears in piping or equipment, disconnect, clean, repair, reconnect obstructed parts and retest; also bear cost of cuttings, patching and joining work necessitated by such cleaning and repairing.

IX. GUARANTEE

- A. The sprinkler contractor shall leave the entire sprinkler system installed under this contract in proper working order and shall without additional charges, replace any work or material installed which develops defects within one year from the date of final acceptance by the Owner, including all other work damaged by such defects.
- B. Any apparatus that requires excessive service during the first year of operation shall be considered defective and shall be replaced at the sprinkler contractor's expense.

X. APPROVALS

- A. The sprinkler contractor shall obtain approval of the layout of his work from the Belmont Fire Department and Owner.
- B. After satisfactory final inspection and test by the approving authority, a copy of the letter of acceptance shall be filed with the Belmont Fire Department and the Owner.

XI. DESCRIPTION OF SYSTEM

- A. The entire sprinkler system shall be designed for applicable hazard standards. The system shall be wet pipe except where potential freezing exists and specified herein. Under Alternate #1, standpipes and surface hose cabinets shall be furnished and configured as required to suit the Belmont Fire Department and the Owner.
- B. Sprinkler heads installed in tile ceilings shall be placed no less than three (3) inches from the edge and shall be installed in straight lines.
- C. Locations and sizes of sprinkler mains, risers, branches and number of heads are required.
- D. Sprinkler equipment acceptable: Reliable, Viking, Grinnell, and Automatic Sprinkler of America, or equal.

XII. DRAIN AND TEST CONNECTIONS

- A. Install horizontal piping graded to low points and in a manner to make it possible to test and empty entire system; provide valves and piping in accordance with requirements of NFPA Pamphlet 13.
- B. Extend test/drain valve discharge pipes to grade. Terminate pipes so that discharge will be visible and safe. Use sight drain fittings if necessary.

XIII. SPRINKLERS

- A. Sprinkler Heads:
 - 1. Finished Areas

Semi-recessed, chrome pendant/sidewall of temperature rating to match application.
(Escutcheons shall permit ceiling tile removal/replacement.)

2.Finished Areas Subject to Damage

Heads located where subject to damage (including P.E. storage and Gym/Café) shall be provided with guards.

3.Unfinished Areas

Natural brass finish.

- B. Furnish extra sprinkler heads packed in a suitable container along with sprinkler wrenches per code.

XIV. PIPING MATERIALS, FITTINGS AND JOINTS

- A. Sprinkler system piping above ground shall conform to NFPA 13.

XV. ANCHORS, SUPPORTS AND HANGERS

- A. Support sprinkler piping from building structure by means of hangers, inserts, etc., as required by NFPA 13.
B. Hangers shall be clevis type or split ring supported from structure.

XVI. PIPE SLEEVES, ESCUTCHEONS

- A. Provide proper sleeves to accommodate pipes passing through walls, floors, partitions, and provide escutcheons at exposed finished surfaces pierced by pipes. Do not cut through any beams without written permission of Owner.
B. All pipes passing through fire/smoke rated walls shall be anchored and sealed as required to meet applicable UL listing.

XVII. VALVES AND GAUGES

- A. Control valves for sprinkler system: IBBM, solid wedge gate, rising stem OS&Y for 175 psi W.W.P.
B. Provide approved gauges as required per NFPA 13 and approving authority.
C. Tamper switch furnished and installed by Sprinkler Contractor, wired by Electrical Contractor.
D. Valves acceptable: Kennedy, Clow, Jenkins, Walworth, Central or equal.

XVIII. VALVE SEALS, TAGS AND CHARTS

- A. Provide copper wire and approved seal for each manually operated shut-off valve required to be sealed in open position.
B. Provide identification signs of standard design, fastened securely at designated locations as per NFPA 13 and Belmont Fire Department.
C. Provide brass tags about 2" in diameter; stamp with designating number, secure with 12 gauge copper wire to spindle of all control valves.
D. Provide three copies of approved sprinkler system diagrams, valve charts, components, etc. giving designating number, function, location of each valve, mount in painted glazed frames, hang where directed.

XIX. FORM FOR BID

- A. Bid Item 1, Furnish and Install a complete sprinkler system as specified here in exclusive of the work described in subsequent bid items below: (lump sum in words)
B. Bid Item 2, Furnish 3 test pits to determine location and size of connection to existing utilities – 3 test pits @ \$_____ per test pit = \$_____.
C. Bid Item 3, Furnish connection from existing underground water line to new sprinkler system service entrance including pipe, valves, pipe restraint, adaptors, surface restoration and all other work required for a complete installation. This is a unit price item with an estimated quantity of 150 lf. 150 lf @ \$_____ per lf = \$_____.

- D. Bid Item 4, Furnish standpipe and hose stations as requested by Belmont Fire Department in excess of work required to meet NFPA 13 and 14. This is an allowance item with compensation to the sprinkler contractor based on documented cost with no markup allowed. Allowance of ten thousand dollars (\$10,000).
- E. Bid Item 5, Deductive alternative to not require the sprinkler contractor to replace ceiling tiles removed in performance of the installation of the Work. New ceiling tiles will be provided by the Owner to the sprinkler contractor as required for installation of sprinkler heads. Lump Sum Deduct.
- F. Bid Item 6, Ledge removal. Remove 25 cubic yards of ledge. Payable ledge 3' wide to 6" below pipe invert.

BIDDER agrees to perform all the work described in the CONTRACT DOCUMENTS for the following unit prices or lump sum:

BID SCHEDULE – Page 1 of 2

NOTE: BIDS shall include all applicable taxes and fees and shall be held for sixty (60) days following the public opening of the proposals.

Item No.	Approximate Quantity	Brief Description of Item with Unit Bid Price in Words	Unit Bid in Figures	Amount in Figures
1	1 LS	Furnish and Install a complete sprinkler system as specified here in exclusive of the work described in subsequent items below: The Sum of _____ _____ Per Lump Sum	\$ _____	\$ _____
2	3 LS	Test Pits The Sum of _____ _____ Per Lump Sum	\$ _____	\$ _____
3	150 LF	Furnish connection from existing underground water line to new sprinkler system service entrance including pipe, valves, pipe restraint, adapters, surface restoration and all other work required for a complete installation. The Sum of _____ _____ per linear foot	\$ _____	\$ _____
4	1 LS	Furnish standpipe and hose stations as requested by Belmont Fire Department in excess of work required to meet NFPA 13 and 14. This is an allowance item with compensation to the sprinkler contractor based on documented cost with no markup allowed. The Sum of Ten Thousand Dollars and 00/100 Allowance	\$(10,000)	\$(10,000)

BID SCHEDULE – Page 2 of 2

Item No.	Approximate Quantity	Brief Description of Item with Unit Bid Price in Words	Unit Bid in Figures	Amount in Figures
5	1 LS	Deductive alternate to not require the sprinkler contractor to replace ceiling tiles removed in performance of the installation of the Work. New ceiling tiles will be provided by the Owner to the sprinkler contractor as required for installation of sprinkler heads. The Sum of _____ _____ Per Lump Sum	\$ _____	\$ _____
6	25 CY	Ledge removal. Payable ledge at 3' wide to 6" below pipe invert. The Sum of _____ _____ per Cubic Yard	\$ _____	\$ _____

Total Base Bid in Words: _____

_____ \$ _____

Amounts are to be shown in both words and figures. In case of discrepancy, the amount shown in words will govern.

The above unit prices shall include all labor, materials, bailing, shoring, removal, overhead, profit, insurance, etc., to cover the fished work of the several kinds called for.

Proposal Submitted By:

Firm Name

Address

City/State/Zip

Telephone No.

Authorized Signature

Date

Name (Please Print)