



CITY OF NEWTON, MASSACHUSETTS
PUBLIC BUILDINGS DEPARTMENT
52 ELLIOT STREET, NEWTON HIGHLANDS, MA 02461

Ruthanne Fuller, Mayor
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Building Commissioner

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November 4, 2020

Re: School HVAC Project Update

As previously reported, Newton Public Schools spent the summer making sure the HVAC systems in the school buildings were all operable, clean, and functional. At the request of the superintendent in September, the City of Newton Public Buildings Department was asked to help Newton Public Schools perform a targeted and aggressive service and maintenance initiative of all ventilation equipment throughout the district with a focus on maximizing air flow and fresh air introduction capacity. Our current estimate to complete this project has been revised to \$2,000,000. As of this update, invoiced costs are \$1,554,766.00.

Over the past two weeks, the City of Newton and Newton Public Schools have completed the following steps to address the ventilation systems in our school facilities:

1. Substantially completed the service and maintenance of ventilation equipment at all School facilities.
2. We have substantially completed the service and maintenance of all exhaust fans in the district, with only a small punch list being addressed at this time. Our goal is to have all the remaining punch list items completed by November 16.
3. Crowley Engineering has completed their existing conditions walkthrough of all elementary schools and Brown Middle School.
4. Engineering Analysis and Walk-Through Phase: 78% Complete
5. Initial Air Flow Testing and Balancing Phase was completed at: Burr, Williams, Lincoln Eliot, Mason Rice, Underwood & Horace Mann

Over the next week, the following will occur:

1. Exhaust Fan service and maintenance punch lists will be completed.
2. Identified deficiencies will continue to be addressed and completed by the various contractors, including any remedial work generated by the air flow testing and balancing reports.
3. CA Crowley will continue their existing conditions walkthroughs at the remaining Middle Schools and High Schools and will be substantially completed
4. Air testing and Balancing firms will be starting their work at Countryside, Franklin, Zervas, Ward and Peirce next week.

Under the direction of Crowley Engineering the air flow testing and balancing firms will confirm air flow rates and fresh air introduction are in line with applicable codes, and these reports will be made public as they become available. Contractors have been documenting all work performed in detail, with the aid of a 62-point unit ventilator service and maintenance checklist. All data will also be made available as it comes in. To complete this work, every school in the district has an assigned City and/or School project manager, and we are in direct contact with the principals and custodians. As the existing conditions reports from Crowley Engineering become available, these will also be made public and will be a valuable resource now and in the future.

Below is the latest schedule from Crowley Engineering for their existing conditions site visits, analysis, and reports which will be completed over the next several weeks. Additionally, their schedule shows the project schedule for the air flow testing and balancing firms. This work will also occur 7 days per week.

Revised Project Schedule

City of Newton - School Ventilation Improvements

November 4, 2020

School	Oct 1-2	Oct 5-9	Oct 13-16	Oct 19-23	Oct 26-30	Nov 2-6	Nov 9-13	Nov 16-20	Nov 23-27	Nov 30-Dec 4
Angier School										
Engineer's Evaluation										
Testing & Balancing										
Corrective Work (if required)										
Bowen School										
Engineer's Evaluation										
Testing & Balancing										
Corrective Work (if required)										
Burr School										
Engineer's Evaluation										
Testing & Balancing										
Corrective Work (if required)										
Cabot School										
Engineer's Evaluation										
Testing & Balancing										
Corrective Work (if required)										
Horace Mann School (aka Carr)										
Engineer's Evaluation										
Testing & Balancing										
Corrective Work (if required)										
Countryside School										
Engineer's Evaluation										
Testing & Balancing										
Corrective Work (if required)										
Franklin School										
Engineer's Evaluation										
Testing & Balancing										
Corrective Work (if required)										
Lincoln-Elliott School										
Engineer's Evaluation										
Testing & Balancing										
Corrective Work (if required)										
NECP										
Engineer's Evaluation										
Testing & Balancing										
Corrective Work (if required)										
Pierce School										
Engineer's Evaluation										
Testing & Balancing										
Corrective Work (if required)										
Memorial Spaulding School										
Engineer's Evaluation										
Testing & Balancing										
Corrective Work (if required)										
Mason Rice School										
Engineer's Evaluation										
Testing & Balancing										
Corrective Work (if required)										
Underwood School										
Engineer's Evaluation										
Testing & Balancing										
Corrective Work (if required)										
Ward School										
Engineer's Evaluation										
Testing & Balancing										
Corrective Work (if required)										
Williams School										
Engineer's Evaluation										
Testing & Balancing										
Corrective Work (if required)										
Zervas School										
Engineer's Evaluation										
Testing & Balancing										
Corrective Work (if required)										
Bigelow Middle School										
Engineer's Evaluation										
Testing & Balancing										
Corrective Work (if required)										
Brown Middle School										
Engineer's Evaluation										
Testing & Balancing										
Corrective Work (if required)										
Day Middle School										
Engineer's Evaluation										
Testing & Balancing										
Corrective Work (if required)										
Oak Hill Middle School										
Engineer's Evaluation										
Testing & Balancing										
Corrective Work (if required)										
Education Center										
Engineer's Evaluation										
Testing & Balancing										
Corrective Work (if required)										
Newton North High School										
Engineer's Evaluation										
Testing & Balancing										
Corrective Work (if required)										
Newton South High School										
Engineer's Evaluation										
Testing & Balancing										
Corrective Work (if required)										
	Oct 1-2	Oct 5-9	Oct 13-16	Oct 19-23	Oct 26-30	Nov 2-6	Nov 9-13	Nov 16-20	Nov 23-27	Nov 30-Dec 4

The above efforts have been a coordinated effort of over a thousand City, School, and contractual employees. In addition to the efforts of Crowley Engineering, the following contractors have been working Sunday – Saturday, 12-16 hours a day in some cases, for the past six weeks to complete this initiative:

HVAC Contractors

- Associated Mechanical Services
- Cox Engineering Service Co.
- Fraser Engineering
- General Air Conditioning & Heating, Inc.
- Harold Brothers
- Mighty Duct
- NB Kenney Company
- Boston Mechanical Services
- Patrick J. Kennedy & Sons Inc
- Bay State Air
- Corporate Mechanical
- Enterprise Equipment
- R.P. O’Connell, Inc

Our Air Testing and Balancing firms have begun their testing work now that the HVAC contractors have completed their service and maintenance and begun repairs on the equipment.

Air Flow Testing and Balancing Firms

E.L. Barret
Tekon Technical Consultants
Leonhardt
ATAB
Thomas Young
THB Company
Precision Testing and Air Balancing
Balancing Technologies

Our efforts thus far have shown promising and noticeable results, and we look forward to having Crowley Engineering and the independent air testing and balancing firms confirm the success of this project.

Additional information can be found at <https://www.newton.k12.ma.us/Page/3731> where we have now posted thousands of pages of service and maintenance data showing our work to date throughout the district.

Again, we would like to thank the principals, teachers, and custodians as they have all been extremely supportive and accommodating of our efforts.

Sincerely,



Josh Morse
Public Buildings Commissioner