

EDUCATIONAL SPECIFICATIONS FOR STAMFORD HIGH SCHOOL MECHANICAL IMPROVEMENT PROJECT

NOVEMBER 11, 2022

1. RATIONALE

Stamford High School was originally constructed in the 1920s with additions constructed in 1971 and 2006. The majority of the mechanical systems in the 1920s and 1971 building were replaced circa 2000. The 1920s building mechanical systems include two electric fired air handler units which serve the 3d floor and limited sections of the 1st and 2nd floors including the auditorium.

The Facility Conditions Assessment conducted for Stamford High School as part of Long Term Facilities Master Plan in 2021 identified replacement and improvement needs for the air handler units.

The Mechanical Improvement Project is a single phase project including equipment replacement/asset renewal and/or improvements of the following mechanical components:

- Air Handler Unit and Condensing Unit that serves the 3rd floor and limited sections of the 1st and 2nd floors to include unit that heats, cools, and ventilates the spaces.
- Air Handler Unit that serves the Auditorium including improvements to include unit that heats, cools, and ventilates the space.
- Installation of gas line to units to convert existing electric fired units to gas fired units.
- Installation of Building Management System controls on new equipment and components with integration of controls to the Building Specific Alerton system.
- Ancillary work to selectively demolish and rebuild interior finishes and exterior envelope and roofing to accommodate and complete mechanical work.

Stamford High School is earmarked for multiple projects including deferred maintenance/asset renewal and capital improvements in accordance with Stamford Public Schools Long Term Facility Master Plan. The Mechanical Improvements Project is one of the identified projects.

2. LONG RANGE PLAN

The district's facilities plan calls for safe environments appropriate for learning. Stamford Public Schools participates in the Connecticut Green LEAF Schools program for which there are three tenets of this program:

- Provide Effective Environmental and Sustainability Education
- Improve the Health and Wellness of Students and Staff
- Reduce Environmental Impact and Cost

To provide a facility that meets these goals, removal and replacement of the existing air handler units, which are past useful life, and the improvement of air handler units and/or roof top units that heat, cool, and ventilate spaces at Stamford High School is required.

3. THE PROJECT

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The Mechanical Improvements Project includes the following components:

- Replacement of the identified air handler unit and condenser for the 3rd floor and limited 1st and 2nd floor areas and the air handler unit for the auditorium.
- Replacement of the identified air handler units in their entirety and improvements to air handler units and/or roof top units that heat, cool, and ventilate the spaces.
- Installation of gas lines to the two units to convert from electric fired units to gas fired units.
- Air balancing and commissioning of the system following installation of equipment and completion of start-up.
- Installation of Building Management System controls for the equipment and components and integration of the controls to the Building Specific Alerton system.
- The project will be designed to conform to all State requirements for eligibility for grant funding.
- The project will not involve land disturbance.
- The replacement of systems involves removal of the existing mechanical equipment, ductwork, grills, and vents and selective demolition of building finishes to access components.
- Asbestos abatement may be required.
- The Project will conform to the latest Energy Code, Building Code, and Fire Code.
- The Project will conform to requirements of Connecticut General Statutes Section 10-291.

Design work will be begin immediately upon grant acceptance with construction schedule target of Summer 2023. However, construction will be highly dependent on equipment procurement. The Project will be conducted in Summer 2024 if equipment procurement delays prohibit Summer 2023 construction.

4. BUILDING SYSTEMS

- Security: Security equipment and components impacted by selective demolition to access mechanical components scheduled for replacement will be repaired and/or replaced to a finished state as part of the Project.
- Public Address: Public Address equipment and components impacted by selective demolition to access mechanical components scheduled for replacement will be repaired and/or replaced to a finished state as part of the Project.
- Technology: Technology equipment and components impacted by selective demolition to access mechanical components scheduled for replacement will be repaired and/or replaced to a finished state as part of the Project.
- Phone Systems: Phone System equipment and components impacted by selective demolition to access mechanical components scheduled for replacement will be repaired and/or replaced to a finished state as part of the Project.

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- Clocks: Clock equipment and components impacted by selective demolition to access mechanical components scheduled for replacement will be repaired and/or replaced to a finished state as part of the Project.

5. INTERIOR BUILDING ENVIRONMENT

- Acoustics: Mechanical components scheduled for replacement shall be insulated and sound proofed as required by Building Code as part of the Project.
- Ceilings and Walls: Ceilings and walls impacted by selective demolition to access mechanical components scheduled for replacement will be repaired and/or replaced to a finished state as part of the Project.
- Lighting: Lighting impacted by selective demolition to access mechanical components scheduled for replacement will be repaired and/or replaced to a finished state as part of the Project.
- HVAC: Mechanical components scheduled for replacement shall be replaced with components meeting latest Energy Code, Building Code, and Fire Code as well as requirements of Connecticut General Statutes Section 10-291.
- Plumbing: Plumbing equipment and components impacted by selective demolition to access mechanical components scheduled for replacement will be repaired and/or replaced to a finished state as part of the Project.
- Windows and Doors: N/A

6. SITE DEVELOPMENT

- Site Acquisition: N/A
- Parking: N/A
- Drives: N/A
- Walkways: N/A
- Outdoor Athletic Facilities: N/A
- Landscaping: N/A
- Site Improvements: N/A

7. CONSTRUCTION BONUS REQUESTS

Not Applicable.

8. COMMUNITY USES

Stamford High School is designed to accommodate community uses after school hours and on weekends, throughout the school year and in the summer. There is no space in the school that is not dedicated to student use during school hours. Community uses of the facility include, but are not limited to, before and after-school programming, and community use of the buildings and grounds during non-school hours.