

# EDUCATIONAL SPECIFICATIONS FOR JULIA STARK ELEMENTARY SCHOOL ROOFTOP UNIT REPLACEMENT PROJECT

NOVEMBER 11, 2022

## 1. RATIONALE

Julia Stark Elementary School was constructed in 1927 with multiple additions in 1960s and 1990s. In 2021, seven Roof Top Units circa 2000s construction, were replaced with higher efficiency unit utilizing additional Energy Conservation Measures (ECM) control strategies. ECM control strategies included demand control ventilation, dual enthalpy control, optimum start/stop and night setback.

The Roof Top Unit Replacement Project was a single phased project conducted to replace end of useful life units and increase energy efficiency.

## 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, the Roof Top Unit Replacement Project was conducted in 2021.

## 3. THE PROJECT

The Roof Top Unit Replacement Project included the following components:

- Demolition of existing units, gas line connections, and ductwork connections.
- Installation of high efficiency roof top units
- Building Management System controls and integration into the District Wide Tridium N4 system.
- Ancillary work to selectively demolish and rebuild interior finishes and exterior envelope and roofing to accommodate and complete mechanical work.
- The project did not involve land disturbance.

The work was conducted in Summer 2021.

## 4. BUILDING SYSTEMS

- Security: Security equipment and components impacted by selective demolition to install mechanical components were repaired and/or replaced to a finished state as part of the Project.

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- Public Address: Public Address equipment and components impacted by selective demolition to install mechanical components were repaired and/or replaced to a finished state as part of the Project.
- Technology: Technology equipment and components impacted by selective demolition to install mechanical components were 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 install mechanical components were repaired and/or replaced to a finished state as part of the Project.
- Clocks: Clock System equipment and components impacted by selective demolition to install mechanical components were repaired and/or replaced to a finished state as part of the Project.

**5. INTERIOR BUILDING ENVIRONMENT**

- Acoustics: Mechanical components installed were 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 install mechanical components were repaired and/or replaced to a finished state as part of the Project.
- Lighting: Lighting impacted by selective demolition to install mechanical components were repaired and/or replaced to a finished state as part of the Project.
- HVAC: Mechanical components installed met the 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 install mechanical components were 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**



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Julia Stark Elementary 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.