

III.D.

**CONNECTICUT STATE BOARD OF EDUCATION
Hartford**

TO BE PROPOSED:

June 3, 2015

RESOLVED, That the State Board of Education, pursuant to subsection (d) of Section 10-95i of the Connecticut General Statutes, approves the Connecticut Technical High School System's Rolling Capital Improvement and Capital Equipment Plan 2016-2020, and directs the Commissioner to take the necessary action.

Approved by a vote of _____, this third day of June, Two Thousand Fifteen.

Signed: _____
Dianna R. Wentzell, Secretary
State Board of Education

**Connecticut State Board of Education
Hartford**

TO: State Board of Education

FROM: Dr. Dianna R. Wentzell, Commissioner of Education

DATE: June 3, 2015

SUBJECT: Rolling Capital Improvement and Capital Equipment Plan 2016-2020

Executive Summary

Introduction

The State of Connecticut continues to invest significant funding in the revitalization of the Connecticut Technical High School System (CTHSS). The attached Five-Year Rolling Capital Improvement and Capital Equipment Plan is a crucial planning document that identifies CTHSS equipment and technology needs by school and by trade.

The purpose of the plan is to identify the facility improvements and equipment (trade and academic equipment/supplies, student transportation vehicles and plant vehicles, and technology) needs of the district.

Early last year, the district finalized and the CTHSS Board approved a Strategic Action Plan for 2014–2017 entitled “Tomorrow’s Framework.” The action plan “clearly defines the paradigm shift that is required to revitalize the district and to propel its practices to encourage innovation among CTHSS learners, teachers, school leaders, business/industry partners and families.”

The district’s Operating and Capital Budget Request for 2015-16 and 2016-17 submitted to the Office of Policy and Management (OPM) last fall, reflected the financial needs that evolved from the Strategic Action Plan.

While past Rolling Capital Plans were more reflective of a generalization of needs, I am respectively requesting more specificity in future reports. Therefore, the next step in the planning process is to update the standardized equipment lists (SELs) that exist for each of the programs to reflect newer equipment needs driven by the paradigm shift. Thus, the district will be working over the next six (6) to nine (9) months to update the SELs to better reflect the educational equipment needs of the district.

Hence, this year's version of the Rolling Capital Improvement and Capital Equipment Plan does not provide a breakdown of the district's equipment needs by school or by program. By completing the SEL update, coupled with an analysis of current equipment asset levels, a truer reflection of the needs will be presented next fiscal year.

It should also be noted that the district submitted a legislative request to reduce the reporting period for future Capital Improvement and Capital Equipment Plans from an annual five-year plan to an annual three-year plan. Senate Bill #1057 is currently awaiting final legislative approval.

History/Background

In 1987, a study completed by the Legislative Program Review and Investigations Committee included several recommendations to improve operations in the school district, then called the Vocational Technical School System (VTSS). Several of the recommendations evolved into legislative mandates that increased reporting requirements for the school district – including five-year trade reauthorizations, a biennial summary report, and an annual five-year rolling capital improvement and capital equipment report. The last mentioned report was intended to highlight critical equipment needs.

Subsection (d) of Section 10-95i of the Connecticut General Statutes requires the State Board of Education to annually submit the Connecticut Technical High School System's Rolling Capital Improvement and Capital Equipment Plan to the joint standing committee of the General Assembly.

On May 19, 2015, the CTHSS Board approved this plan and recommended that it be presented to the State Board of Education for its approval.

Recommendation and Justification

It is recommended that the State Board approve this plan which provides a roadmap for future state capital funding, in support of attractive, safe, and well-maintained CTHSS facilities and equipment that is up-to-date and conducive to excellence in teaching and learning.

Policy Implications

The Connecticut Technical High School System receives capital funding for renovations to its school facilities and campuses through the Department of Administrative Services' School Construction grant.

In addition to and while awaiting completion of these construction projects, the system must continue to maintain and repair facilities to meet state code requirements for health and safety and address school accreditation recommendations cited by the New England Association of School and Colleges (NEASC).

Continued delays in commencing with school construction renovations require the State of Connecticut to identify resources for repair/replacement of mechanical systems (i.e. boilers, air handling units), roofs, and parking lots.

Additionally, funding is required in order to procure new/replacement trade, academic and technology equipment, school transportation vehicles, and plant vehicles. Funding for these priorities is derived from the State of Connecticut's Capital Budget.

The chart below provides a summary of capital funding requested by the CTHSS and the level of capital funding recommended by the Governor, and the amounts ultimately approved by the Legislature and the State Bond Commission since fiscal year 2011-12.

CTHSS Capital Funding Request Summary

Fiscal Year	CTHSS Capital Budget Request	Governor's Recommended Capital Budget for CTHSS	Legislative Authorization	Bond Commission Approval as of April 30, 2014	Unallocated Bond Balance as of April 30, 2015
2016-17	\$8,666,000	\$12,000,000	Pending	Pending	Pending
2015-16	\$11,255,000	\$0	Pending	Pending	Pending
2014-15	\$15,500,000	\$15,500,000	\$15,500,000	\$0	\$15,500,000
2013-14	\$28,000,000	\$28,000,000	\$28,000,000	\$0	\$28,000,000
2012-13	\$28,000,000	\$5,000,000	\$28,000,000	\$25,442,298	\$2,557,702
2011-12	\$28,000,000	\$5,000,000	\$28,000,000	\$27,839,042	\$160,958

Calendar of FY 2015 Bond Commission Approvals

During the current fiscal year which began on July 1, 2014, the CTHSS has benefitted from several Bond Commission approvals. The CTHSS has received Bond Commission approval of nearly \$18.3M as detailed on the following page.

Year of Legislative Authorization	Bond Commission Meeting Dates	Purpose	Amounts
2012-13	July 25, 2014	Roof & Mechanical Upgrades – Stratford School	\$ 1,386,700
	July 25, 2014	Agency administered infrastructure projects	\$ 250,000
	July 25, 2014	Masonry and Fitness renovations – Bullard Havens	\$ 206,250
	July 25, 2014	Roof replacement design – Bullard Havens	\$ 103,155
	July 25, 2014	Roof replacement design – Oliver Wolcott	\$ 90,213
	Nov. 19, 2014	Expand Manufacturing Programs	\$ 5,000,000
	Nov. 19, 2014	Replacement of trade and academic equipment	\$ 4,300,000
	Nov. 19, 2014	Replacement of technology equipment	\$ 2,100,000
	Nov. 19, 2014	Agency administered infrastructure projects	\$ 950,000
	Nov. 19, 2014	Paving and drainage repairs - Vinal	\$ 306,985
	Nov. 19, 2014	Paving and drainage repairs – Oliver Wolcott	\$ 227,890
	Nov. 19, 2014	Paving and drainage repairs – Bristol	\$ 161,655
	Jan. 30, 2015	Handicapped Accessibility project - Vinal	<u>\$ 3,177,740</u>
		Total	\$18,260,588

Projects Awaiting Completion of Design and/or Bond Commission Action

The CTHSS continues to pursue approval of bond authorizations totaling \$46.2 million that were legislatively authorized as early as fiscal year 2011-2012. These projects include:

- \$6.7 million for construction of a replacement roof at Windham;
- \$4.0 million for new equipment for J.M. Wright;
- \$3.9 million for replacement of trade and academic equipment (FY 2016);
- \$3.8 million for the partial cost a kitchen renovation at E.C. Goodwin;
- \$3.3 million for agency administered emergency repairs;
- \$3.2 million for parking lot and drainage repairs at Vinal;
- \$3.1 million for construction of Fats, Oils, and Grease (FOG) containment systems;
- \$2.9 million for roof replacement at Oliver Wolcott;

Projects Awaiting Completion of Design and/or Bond Commission Action

- \$2.8 million for renovations to Masonry shop and Fitness Center at Bullard Havens;
- \$2.5 million for replacement of technology and networking hardware (FY 2016);
- \$2.0 million for security enhancements throughout the district;
- \$1.8 million for parking lot and drainage repairs at Oliver Wolcott;
- \$1.6 million for parking lot and drainage repairs at Ella T. Grasso;
- \$1.3 million for replacement of plant vehicles and new student transportation vehicles;
- \$1.3 million for parking lot and drainage repairs at Bristol Technical Ed. Center;
- \$1.1 million for construction and equipping of a new Bio Tech program at A.I. Prince; and
- \$900,000 for partial construction of a new roof at Bullard Havens.

School Construction Update

In addition to the seventeen (17) projects listed above, school construction and renovation projects continue.

Two (2) projects (Eli Whitney and Emmett O'Brien) are in construction, two (2) projects (Ella T. Grasso and Platt) are in design and three (3) projects (Oliver Wolcott, Windham and Vinal) are awaiting legislative approval for additional funding before design work can commence.

The additional funding request for these three projects is included in the Department of Administrative Services (DAS) 2015 School Building Project Priority List currently under legislative consideration.

Future Capital Plans

As the Governor's Recommended Capital Budget provides no new capital funding for fiscal year 2016 and \$12 million for fiscal year 2017, I have had to reprioritize the list of planned projects.

Therefore, funding from prior legislative authorizations will be redirected in order to continue to provide funding for the replacement of trade and academic equipment, technology and network hardware, and for agency administered infrastructure repairs during the 2015-16 fiscal year.

For fiscal year 2016-17, the proposed CTHSS plan for allocating the \$12 million provided in the Governor’s Recommended Capital Budget includes:

- \$5.1 million for replacement of technology equipment;
- \$4.0 million for replacement of trade and academic equipment; and
- \$2.9 million for agency administered infrastructure projects.

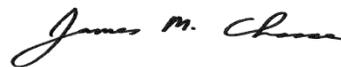
The CTHSS has also begun participating in the state’s “Lead By Example” initiative which was designed to reduce energy consumption in all state buildings by 20% by 2018.

There are a variety of funding mechanisms potentially available – including CTHSS bonding, bonding from the Department of Energy and Environmental Protection (DEEP), future utility bill 0% financing, and leveraging guaranteed savings from performance based contracting.

The district will continue to work with the Institute for Sustainable Energy (ISE), DEEP, OPM and DAS to determine the most critical projects and advantageous funding option for each project.

Follow-up Activities

Upon approval of this plan by the State Board, it will be submitted to the joint standing committees of the General Assembly having cognizance of matters relating to education, finance, revenue, bonding and appropriations and the budgets of state agencies.



Prepared by: _____

James Chasse, Education Consultant
Connecticut Technical High School System



Approved by: _____

Dr. Nivea L. Torres, Superintendent of Schools
Connecticut Technical High School System

Connecticut Technical High School System (CTHSS) Rolling Capital Improvement and Capital Equipment Plan 2016-2020

Summarized below is the CTHSS proposed Rolling Capital Improvement and Capital Equipment Plan for fiscal years 2016-2020.

Category	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Totals
Educ. Equip.	\$0	\$4.0M	\$4.0M	\$4.0M	\$4.0M	\$16.0M
Technology	\$0	\$5.1M	\$3.5M	\$4.2M	\$3.5M	\$16.3M
Infrastructure	\$0	\$2.9M	\$2.0M	\$2.0M	\$2.0M	\$8.9M
Vehicles	\$0	\$0	\$2.0M	\$1.3M	\$0	\$3.3M
Energy Efficient Projects	\$0	\$0	\$0.5M	\$0.5M	\$0.5M	\$1.5M
Totals	\$0	\$12.0M	\$12.0M	\$12.0M	\$10.0M	\$46.0M

*Amounts displayed for fiscal years 2016 and 2017 align with the amounts proposed in the Governor's 2015-16 and 2016-17 Capital Budget.

Educational Equipment

As detailed in the introduction, the CTHSS will be undergoing a review and modification of its standardized equipment lists (SELs) for each trade and academic program over the next six to nine months. Therefore, the amounts proposed for educational equipment are simply placeholders until such time as the review has been completed.

Typical uses of these funds include manufacturing equipment (i.e. milling machines, plasma cam machines), small hand tools for use in carpentry, electrical, and HVAC programs, kitchen equipment (i.e. mixers, freezers, display cases), and medical program equipment (i.e. manikins, hospital/surgical beds).

**Connecticut Technical High School System (CTHSS)
Rolling Capital Improvement and Capital Equipment Plan
2016-2020**

Technology

The proposed funding for technology will allow for the replacement of student computers, classroom and shop printers, smart boards, and aged network infrastructure including data wiring and switches.

Infrastructure

The district requires at least \$2M annually for the repair of major building environmental systems and equipment including boilers, chillers, air handlers and water heaters and to provide funding to respond to emergency situations such as roof leaks, weather damages, and door/window repairs.

Vehicles

The district also requires funding for the replacement of student transportation vehicles (STVs) and plant maintenance vehicles.

As specified in Subsection (b) of Section 10-97 of the Connecticut General Statutes, STV's that are twelve years or older must be replaced. On January 1, 2018, the district is scheduled to have twenty (20) STVs retired. Thus, funding will be required in fiscal year 2018 for their replacement.

The CTHSS is also responsible for the maintenance of its parking lots and school grounds and requires access to plant vehicles (i.e. dump trucks, pickups, rack bodies). Funding is identified in the plan for the replacement of dump and pickup trucks in fiscal year 2019.

Energy Efficiency Projects

As noted in the introduction, the CTHSS is a participant in the state's "Lead By Example" initiative. As projects are determined, a funding stream must be identified.

While there a number of funding options currently available, the life span of those resources is unknown. Thus, the district may require access to its own capital funding to begin addressing energy efficiency needs. Therefore, a placeholder of \$500,000 per year in capital funding is included in the overall request.

**Connecticut Technical High School System (CTHSS)
Rolling Capital Improvement and Capital Equipment Plan
2016-2020**

In conclusion, the Connecticut Technical High School System (CTHSS) has initially identified the need for a total of \$46M over the next five (5) years to provide funding for the replacement of trade and academic equipment, technology, vehicles and for infrastructure repairs and enhancements necessary to reduce energy consumption in our twenty facilities.

Funding of this plan is critical to maintaining the state's investment in the CTHSS and to provide the technology and equipment needed to prepare our students to be college- and career-ready.