

**BRISTOL PUBLIC SCHOOLS**  
**Bristol, Connecticut**

December 3, 2025  
**(Meeting Date)**

<input type="checkbox"/>	<b>Information Item</b>
<input checked="" type="checkbox"/>	<b>Decision Item</b>

**AGENDA REPORTING FORM**

**TOPIC:** Curriculum Revision: PLTW Civil Engineering and Architecture

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**BACKGROUND:**

Civil Engineering and Architecture (CEA) is a high school level specialization course in the PLTW Engineering Program. In CEA students are introduced to important aspects of building and site design and development. They apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3D architectural design software. Utilizing the activity-project-problem-based (APB) teaching and learning pedagogy, students will progress from completing structured activities to solving open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills.

Through both individual and collaborative team activities, projects, and problems, students will solve problems as they practice common design and development protocols such as project management and peer review. Students will develop skill in engineering calculations, technical representation and documentation of design solutions according to accepted technical standards, and use of current 3D architectural design and modeling software to represent and communicate solutions.

Building enthusiasm for and a real understanding of the role, impact, and practice of civil engineering and architecture as it relates to building design and development is a primary goal of the course.

(Source: PLTW Civil Engineering Course Resume and Course Outline)

**COST:** \$3200      **FUNDING SOURCE:** General Budget

**RECOMMENDATIONS/COMMENTS:** The cost is for access to the PLTW curriculum for all PLTW courses that we offer. It is a mandatory program fee for the PLTW Engineering Pathway. This is not a new demand on the general budget; it is an annual cost that the Curriculum and Instructional Services department budgets for annually.

**ATTACHMENTS:**

[PLTW Civil Engineering & Architecture CURRICULUM \(2025-26\).pdf](#)

**TOPIC PRESENTER:** Laura Lanza, Secondary STEM Supervisor

**CONTACT NUMBER:** (860) 584-7074

**ACTING SUPERINTENDENT:** Iris White  
Iris White

<b>Bristol Board of Education, Bristol CT</b>	
Presented at Board Meeting:	
Approved:	
Order Filed:	
Referred to:	