



East Lansing Board of Education

509 Burcham Drive, East Lansing, MI 48823

Regular Meeting
March 10, 2025 - 7:00 PM
Board Room
509 Burcham Drive
East Lansing, Michigan 48823



Agenda

I. Opening of Meeting

A. *Call to Order*

B. *Roll Call*

C. *Mission Statement: Nurturing Each Child, Educating All Students, Building World Citizens*

D. *Approval of Agenda*

Motion: I move to approve the March 10, 2025, regular meeting agenda, as presented.

E. **Approval of Minutes**

Motion: I move to approve the minutes from the following meeting as presented.

1. February 24, 2025, regular meeting

2

I. Opening of Meeting

I.A. Call to Order

The meeting was called to order by President Chris Martin at 7:01 pm.

I.B. Roll Call

Dr. Terah Chambers:	Present
Dr. Kath Edsall:	Present
Ms. Tali Faris-Hylen:	Absent
Dr. Elizabeth Lyons:	Present
Mr. Chris Martin:	Present
Dr. Estrella Torrez:	Present
Ms. Abbie Tykocki:	Present
Student Representative Stella Alfredson	Present
Student Representative Holyn Walsh	Absent
Superintendent Dori Leyko	Present

I.C. Mission Statement: Nurturing Each Child, Educating All Students, Building World Citizens

The mission statement was read by Trustee Estrella Torrez.

I.D. Approval of Agenda

Motion: 24-25/075: I move the Board of Education approve the February 24, 2025, regular meeting agenda, as presented.

This motion, made by Dr. Kath Edsall and seconded by Dr. Estrella Torrez, Passed.

Ms. Tali Faris-Hylen: Absent, Dr. Terah Chambers: Aye, Dr. Kath Edsall: Aye, Dr. Elizabeth Lyons: Aye, Mr. Chris Martin: Aye, Dr. Estrella Torrez: Aye, Ms. Abbie Tykocki: Aye

Aye: 6, Nay: 0, Absent: 1

I.E. Approval of Minutes

Motion: 24-25/076: I move the Board of Education approve the following minutes.

- I.E.1. February 10, 2025, regular meeting
- I.E.2. February 10, 2025, closed session

This motion, made by Dr. Elizabeth Lyons and seconded by Ms. Abbie Tykocki, Passed.

Ms. Tali Faris-Hylen: Absent, Dr. Terah Chambers: Aye, Dr. Kath Edsall: Aye, Dr. Elizabeth Lyons: Aye, Mr. Chris Martin: Aye, Dr. Estrella Torrez: Aye, Ms. Abbie Tykocki: Aye

Aye: 6, Nay: 0, Absent: 1

II. Recognition

- No Recognition

III. Student Representative Report

Student Representative Stella Alfredson:

- Key Club attended Student Leadership Conference for the first time since the pandemic
- Spring sports are beginning
- Basketball is finishing their season; East Lansing is hosting districts

IV. Superintendent's Report

Click [here](#) for the Superintendent's Report

V. Public Comment: This is the opportunity to address the Board. Speakers are to confine their remarks to five minutes. If a speaker requires more than five minutes, after all other persons who have requested to speak during this part of the meeting have spoken, that speaker will be allowed additional time. The Superintendent or other district staff may comment to clear up or avoid significant misunderstandings.

- No Public Comment

VI. Presentations

VI.A. Dori Leyko, Superintendent - [ELHS Construction Project Update](#)

Discussion followed

VI.B. Glenn Mitcham, Deputy Superintendent - [MLK, Jr and Papa the Great](#)

Discussion followed

VII. Board Discussion

- No Board Discussion

VIII. Action Items**VIII.A. January 29, 2025 Thrun Policy Updates**

Motion: 24-25/077: I move the Board of Education approve the January 29, 2025 Thrun Policy Updates, as presented.

This motion, made by Dr. Kath Edsall and seconded by Dr. Terah Chambers, Passed.

Ms. Tali Faris-Hylen: Absent, Dr. Terah Chambers: Aye, Dr. Kath Edsall: Aye, Dr. Elizabeth Lyons: Aye, Mr. Chris Martin: Aye, Dr. Estrella Torrez: Aye, Ms. Abbie Tykocki: Aye

Aye: 6, Nay: 0, Absent: 1

VIII.B. Policy 5201 Investigations, Arrests, and Other Law Enforcement Contacts

Motion: 24-25/078: I move the Board of Education approve the update to Policy 5201 to include the link to the Safe and Supportive Schools Resolution adopted on January 13, 2025.

This motion, made by Dr. Kath Edsall and seconded by Dr. Elizabeth Lyons, Passed.

Ms. Tali Faris-Hylen: Absent, Dr. Terah Chambers: Aye, Dr. Kath Edsall: Aye, Dr. Elizabeth Lyons: Aye, Mr. Chris Martin: Aye, Dr. Estrella Torrez: Aye, Ms. Abbie Tykocki: Aye

Aye: 6, Nay: 0, Absent: 1

VIII.C. East Lansing High School Band and Orchestra Trip to Orlando, FL

Motion: 24-25/079: I move the Board of Education approve the East Lansing High School Band and Orchestra trip to Orlando, FL in March 2026, as presented.

This motion, made by Dr. Elizabeth Lyons and seconded by Dr. Terah Chambers, Passed.

Ms. Tali Faris-Hylen: Absent, Dr. Terah Chambers: Aye, Dr. Kath Edsall: Aye, Dr. Elizabeth Lyons: Aye, Mr. Chris Martin: Aye, Dr. Estrella Torrez: Aye, Ms. Abbie Tykocki: Aye

Aye: 6, Nay: 0, Absent: 1

Discussion followed

VIII.D. Purchase of New Technology

Motion: 24-25/080: I move the Board of Education approve the purchase of 325 Chromebooks from SEHI in the amount of \$84,376.50.

This motion, made by Ms. Abbie Tykocki and seconded by Dr. Terah Chambers, Passed.

Ms. Tali Faris-Hylen: Absent, Dr. Terah Chambers: Aye, Dr. Kath Edsall: Aye, Dr. Elizabeth Lyons: Aye, Mr. Chris Martin: Aye, Dr. Estrella Torrez: Aye, Ms. Abbie Tykocki: Aye

Aye: 6, Nay: 0, Absent: 1

VIII.E. Budget Calendar

Motion:24-25/081: I move the Board of Education adopt the budget calendar for developing the East Lansing Public Schools 2025-26 budget as presented.

This motion, made by Dr. Terah Chambers and seconded by Ms. Abbie Tykocki, Passed.

Ms. Tali Faris-Hylen: Absent, Dr. Terah Chambers: Aye, Dr. Kath Edsall: Aye, Dr. Elizabeth Lyons: Aye, Mr. Chris Martin: Aye, Dr. Estrella Torrez: Aye, Ms. Abbie Tykocki: Aye

Aye: 6, Nay: 0, Absent: 1

VIII.F. Award Bids for Safety, Security, and Accessibility Bond Bid Package #1 New Administration Building

Motion: 24-25/082: I move the Board of Education award the following bids related to the New Administration Building as follows:

Category 01 Building Demolition- Christman Constructors, Inc.	\$ 43,700
Category 02 Concrete- Proline Concrete	\$ 210,780
Category 03 Sitework & Site Demo- Verlinde Construction	\$ 453,323

Category 13 Fire Protection System- Grand Rapids Fire	\$ 86,056
Category 14 Plumbing & HVAC- Myers Mechanical	\$1,360,000
Category 15 Electrical- H&R Electrical	\$ 732,565
Construction General Conditions (3%)- Clark Construction	_____
\$ 86,593	
Total	\$2,973,017

This motion, made by Dr. Kath Edsall and seconded by Dr. Elizabeth Lyons, Passed.

Ms. Tali Faris-Hylen: Absent, Dr. Terah Chambers: Aye, Dr. Kath Edsall: Aye, Dr. Elizabeth Lyons: Aye, Mr. Chris Martin: Aye, Dr. Estrella Torrez: Aye, Ms. Abbie Tykocki: Aye

Aye: 6, Nay: 0, Absent: 1

VIII.G. 2024-25 First Budget Revision

VIII.G.1. General Fund

Motion: 24-25/083: I move the Board of Education adopt the 2024-25 First Budget Revision resolution for the General Fund, as presented on pages 5-6 of the Budget Book.

This motion, made by Dr. Terah Chambers and seconded by Dr. Kath Edsall, Passed.

Ms. Tali Faris-Hylen: Absent, Dr. Terah Chambers: Aye, Dr. Kath Edsall: Aye, Dr. Elizabeth Lyons: Aye, Mr. Chris Martin: Aye, Dr. Estrella Torrez: Aye, Ms. Abbie Tykocki: Aye

Aye: 6, Nay: 0, Absent: 1

VIII.G.2. Food Service Fund

Motion: 24-25/084: I move that the Board of Education adopt the 2024-25 First Budget Revision resolution for the Food Service Fund, as presented on page 7 of the Budget Book.

This motion, made by Dr. Terah Chambers and seconded by Dr. Estrella Torrez, Passed.

Ms. Tali Faris-Hylen: Absent, Dr. Terah Chambers: Aye, Dr. Kath Edsall: Aye, Dr. Elizabeth Lyons: Aye, Mr. Chris Martin: Aye, Dr. Estrella Torrez: Aye, Ms. Abbie Tykocki: Aye

Aye: 6, Nay: 0, Absent: 1

VIII.G.3. Student/School Activity Fund

Motion: 24-25/085: I move that the Board of Education adopt the 2024-25 First Budget Revision resolution for the Student/School Activity Fund, as presented on page 8 of the Budget Book.

This motion, made by Dr. Elizabeth Lyons and seconded by Ms. Abbie Tykocki, Passed.

Ms. Tali Faris-Hylen: Absent, Dr. Terah Chambers: Aye, Dr. Kath Edsall: Aye, Dr. Elizabeth Lyons: Aye, Mr. Chris Martin: Aye, Dr. Estrella Torrez: Aye, Ms. Abbie Tykocki: Aye

Aye: 6, Nay: 0, Absent: 1

IX. Committee Reports

IX.A. Academic and Technology Committee

Last met February 12 and discussed:
Grades 7-12 Curriculum Study Update
New high school course proposal: Video Game Design
Next meeting is March 11 at 12:00 pm

IX.B. Facilities Committee

No meeting

IX.C. Finance Committee

CREC Update
Governor Whitmer's 2025-26 budget
ISD report with all 6-30-24 fund balances
2024-25 Budget calendar
2024-25 First Budget revision
Bid Package #1 proposed awards for the administration building

IX.D. Intergovernmental Relations

Next meeting is February 27 at 10:00 am

IX.E. Personnel Committee

No meeting

IX.F. Policy Committee

Next meeting is March 3 at 10:30 am

IX.G. Ingham School Officers Association (ISOA)

Next meeting is March 5

X. Announcements

X.A. The next regularly scheduled meeting of the Board of Education is March 10, 2025.

X.B. Additional announcements:

- Thank you to Kevin Mayes and players for participating in the Unified Sports basketball game
- East Lansing is hosting boys' basketball districts this week; East Lansing has a first round bye and will play on Wednesday 2/26 at 7:00
- 7th grade girls still undefeated
- Facilities team is doing a great job in keeping the buildings and grounds looking good with so many activities in the district
- Flockey season is beginning

XI. Adjournment

The meeting adjourned at 8:10 pm.

President

Secretary

II. Recognition

III. Student Representative Report

IV. Superintendent's Report

V. **Public Comment:** This is the opportunity to address the Board. Speakers are to confine their remarks to five minutes. If a speaker requires more than five minutes, after all other persons who have requested to speak during this part of the meeting have spoken, that speaker will be allowed additional time. The Superintendent or other district staff may comment to clear up or avoid significant misunderstandings.

VI. Board Discussion

VII. Action Items

A. Pilot Sexual Health Curriculum Grades 7-12

Motion: I move the Board of Education approve the new pilot Sexual Health Curriculum Grades 7-12, as presented.

8



East Lansing
Public Schools

MEMORANDUM

TO: East Lansing Board of Education

FROM: Glenn Mitcham, Deputy Superintendent

SUBJECT: Pilot Sexual Health Curriculum Grades 7-12

DATE: February 21, 2025

Background:

In response to feedback from ELPS teachers of sexual health, the ELPS Sex Education Advisory Board (SEAB) has been working to find updated sexual health curriculum for students in grades 7-12. A SEAB curriculum subcommittee reviewed three potential curriculums to replace the “Michigan Model for Health” that has been in place for many years. The subcommittee recommended “Rights, Respect, and Responsibility” to the full SEAB for review and the board now seeks ELPS schoolboard approval to pilot selected lessons from the curriculum this spring in grades 7-12.

Attached, please find a detailed proposal and the actual lessons that will be piloted if approved. The school board will be asked to act on this proposal at the March 10, 2025 board of education meeting. **Anne Scott – SEAB Director will be present for any questions from the board.**

Recommendation:

The board of education approve the new pilot Sexual Health Curriculum Grades 7-12 as presented.

HIV/Sex Education Curriculum Review for 7th through 12 grades: Pilot lesson approval

Background:

The East Lansing Public Schools (ELPS) currently uses the Michigan Model for Health, which includes "Growing Up and Staying Healthy: Understanding HIV and Other STIs" for grades 7-8, and "Healthy and Responsible Relationships: HIV, Other STIs, and Pregnancy Prevention" for grades 9-12. In response to feedback from educators and to ensure that ELPS students receive the most inclusive, comprehensive, and up-to-date education on HIV prevention and sexual health, the district's Sex Education Advisory Board (SEAB) began exploring affordable, digitally-accessible, comprehensive curriculum options that align with current national standards for sexual health education and meet Michigan's requirements for HIV and sex education.

In accordance with district policy 5407 (the ELPS Curriculum Adoption Process), the SEAB established a curriculum review sub-committee made up of key staff and educators to begin reviewing updated HIV and sexual health curriculum for grades 7-12. After a thorough assessment of the three top options that met the established criteria, the SEAB identified "Rights, Respect, and Responsibility" (Michigan-Aligned Lessons) for a limited pilot program. This pilot aims to gather feedback from educators and students regarding the relevance, relatability, and classroom experience associated with the lessons and materials. Following the pilot phase, the SEAB and the curriculum review committee will incorporate this feedback into their final consideration of the "Rights, Respect, and Responsibility" curriculum as a potential replacement for the current Michigan Model curriculum.

Pilot Lessons Recommended:

The recommended lessons for the limited pilot program in our upper middle school and high school classrooms come from "Rights, Respect, and Responsibility" (2023). This curriculum best meets the SEAB's criteria for inclusiveness, comprehensiveness, digital availability, and alignment with Michigan state requirements and national standards for HIV prevention and sexual health education. The selected pilot lessons include three lessons for grades 7-8 and three lessons for grades 9-12. Each of these lessons covers themes related to STI/HIV and pregnancy prevention, sexual violence prevention, and responsible decision-making.

7th Grade & 8th Grade Lesson 4 - Protecting Your Health: Understanding and Preventing HIV and STIs ;
--

7th Grade & 8th Grade Lesson 6 - Making SMART Choices ,

7th Grade & 8th Grade [Lesson 8 - Warning Signs: Understanding Sexual Abuse and Assault](#)

9-12th Grade: [Lesson 2 - Unhealthy Relationships: Plan for Safety](#)

9-12th Grade: [Lesson 5 - Planning and Protection: Avoiding and Managing STIs;](#)

9-12th Grade: [Lesson 11: Rights, Respect, Responsibility - Don't Have Sex Without Them;](#)

Procedure:

The pilot lessons will be added onto the existing approved curriculum and will take place during scheduled instruction for each grade level. Depending on the approval from the ELPS Board of Education and the timing of classroom instruction, the pilot may begin before the end of the current school year or during the 2025-26 school year. If approved, the pilot lessons will be included in the standard notifications to parents and caregivers, providing opportunities for material review and “opt-out” procedures in accordance with state law and district policy.

B. New Course Proposal

12

Motion: I move the Board of Education approve the new high school course "Video Game Design" as presented.



East Lansing
Public Schools

MEMORANDUM

TO: East Lansing Board of Education

FROM: Glenn Mitcham, Deputy Superintendent

SUBJECT: New Course Proposal

DATE: February 21, 2025

Background:

Teachers from the Applied Technology Department at East Lansing High School desire to expand their departments course offerings by offering a Video Game Design course. This semester long course will require no prerequisite coursework and be open to students in grades 9-12.

The Applied Technology Department recently ran a student survey asking students what course they would like to see offered and Video Game Design was the clear favorite. The initial plan, if approved, will be to offer this course in place of a section of “Engineering Technology” so no additional fte. will be required. Adapted curriculum from CodeHS (AP Computer Science Principals) will be used as the anchoring curriculum to teach the course.

Attached please find a detailed course proposal and the CodeHS curriculum outline for AP Computer Science Principals. This course proposal will come for board action at the March 10 Board of Education meeting. **Members of the ELHS Applied Technology Department as well as the high school principal will be present for questions.**

Recommendation:

The board of education approve the new high school course “Video Game Design” as presented.

AP Computer Science Principles In Roblox Course Syllabus

High School (136 Contact Hours)

Introduction

AP Computer Science Principles introduces students to the foundational concepts of computer science and explores the impact computing and technology have on our society.

With a unique focus on creative problem solving and real-world applications, the CodeHS AP Computer Science Principles in Roblox course gives students the opportunity to explore several important topics of computing using their own ideas and creativity, use the power of computing to create artifacts of personal value and develop an interest in computer science that will foster further endeavors in the field.

13

The CodeHS AP Computer Science Principles in Roblox course utilizes Roblox Studio and the Lua/Luau programming language to teach students programming concepts. Students will build worlds and games in Roblox, and they will be encouraged to use Roblox for their Performance Task assessment. In addition, they will explore computer science concepts through Roblox simulations.

Course Overview

Prerequisites: There are no official prerequisites for the CodeHS AP Computer Science Principles course. This course is meant to be a first-time introduction to computer science and does not require students to come in with any computer programming experience. However, we recommend that students take an Introduction to Computer Science course prior to our AP courses (more info at codehs.com/library). Students who have completed an Intro to CS course will be able to apply knowledge of concepts covered in the Intro course to the more advanced setting of the AP courses.

Overarching Course Goals:

- Increase and diversify participation in computer science
- Students, regardless of prior experience in computing, will develop confidence using computer science as a tool to express themselves and solve problems, and this confidence will prepare them for success in future endeavors in the field of computer science
- Students will understand the core principles of computing, a field that has and continues to change the world

- Students will be able to develop computational artifacts to solve problems, communicate ideas, and express their own creativity
- Students will be able to collaborate with others to solve problems and develop computational artifacts
- Students will be able to explain the impact computing has on society, economy, and culture
- Students will be able to analyze existing artifacts, identify and correct errors, and explain how the artifact functions
- Students will be able to explain how data, information, or knowledge is represented for computational use
- Students will be able to explain how abstractions are used in computation and modeling
- Students will learn to be informed and responsible users of technology

Learning Environment: The course utilizes a blended classroom approach. The content is a mix of web-based and physical activities. Students will write and run code in the browser and in Roblox Studio. They will create digital artifacts and engage in in-person collaborative exercises with classmates. Teachers utilize tools and resources provided by CodeHS to leverage time in the classroom and give focused 1-on-1 attention to students. Each module of the course is broken down into lessons. Lessons consist of video tutorials, example programs to explore, written programming exercises, free response exercises, collaborative creation projects, and research projects.

14

Programming Environment: Students write and run programs in the browser using the CodeHS editor and the third-party development environment Roblox Studio. Students will be able to write text-based programs in the Lua programming language utilized in Roblox, and students will use Roblox Studio to create graphical programs, games, objects, and worlds. Students gain programming experience early on in the course that will enable them to explore the rest of the course topics through computational thinking practices.

Technical Requirements: Access to a computer and high-speed internet is required. Roblox Studio has additional requirements - refer to this [FAQ article](#) to see the full list of requirements. Note that Roblox Studio will not run on Chromebooks.

To complete all activities and exercises in this course, students must have access to the 3rd party sites and tools listed here: [AP Computer Science Principles in Roblox Course Links](#)

Quizzes: At the end of each module, students take a summative multiple choice unit quiz in the style of the AP Exam that assesses their knowledge of the concepts covered in the unit. The course also provides an AP Test Practice unit with a cumulative AP Practice Multiple Choice Test.

Course Objectives

This course is based directly on the College Board AP Computer Science Principles Framework. We recommend reading the curriculum framework [here](#) for context. The main course objectives

are summarized below in the six computational thinking practices and five big ideas for the course.

Computational Thinking Practices:

The six computational thinking practices represent important aspects of the work that computer scientists engage in, and are denoted here by P1 through P6:

- **Practice 1: Computational Solution Design**
 - *Design and evaluate computational solutions for a purpose.*
- **Practice P2: Algorithms and Program Development**
 - *Develop and implement algorithms.*
- **Practice P3: Abstraction in Program Development**
 - *Develop programs that incorporate abstractions.*
- **Practice P4: Code Analysis**
 - *Evaluate and test algorithms and programs.*
- **Practice P5: Computing Innovations**
 - *Investigate computing innovations.*
- **Practice P6: Responsible Computing**
 - *Contribute to an inclusive, safe, collaborative, and ethical computing culture.*

15

Big Ideas:

The five big ideas of the course encompass foundational ideas in the field of computer science, and are denoted here by B1 through B5:

- **Big Idea 1: Creative Development (CRD)**

When developing computing innovations, developers can use a formal, iterative design process or experimentation. While using either approach, developers will encounter phases of investigating and reflecting, designing, prototyping, and testing. Additionally, collaboration is an important tool to use at any phase of development because considering multiple perspectives allows for improvement of innovations.
- **Big Idea 2: Data (DAT)**

Data is central to computing innovations because it communicates initial conditions to programs and represents new knowledge. Computers consume data, transform data, and produce new data, allowing users to create new information or knowledge to solve problems through the interpretation of this data. Computers store data digitally, which means that the data must be manipulated in order to be presented in a useful way to the user.
- **Big Idea 3: Algorithms and Programming (AAP)**

Programmers integrate algorithms and abstraction to create programs for creative purposes and to solve problems. Using multiple program statements in a specified order, making decisions, and repeating the same process multiple times are the building blocks of programs. Incorporating elements of abstraction, by breaking problems down into interacting pieces, each with their own purpose, makes writing complex programs easier.

Programmers need to think algorithmically and use abstraction to define and interpret processes that are used in a program.

- **Big Idea 4: Computing Systems and Networks (CSN)**

Computer systems and networks are used to transfer data. One of the largest and most commonly used networks is the Internet. Through a series of protocols, the Internet can be used to send and receive information and ideas throughout the world. Transferring and processing information can be slow when done on a single computer but leveraging multiple computers to do the work at the same time can significantly shorten the time it takes to complete tasks or solve problems.

- **Big Idea 5: Impact of Computing (IOC)**

Computers and computing have revolutionized our lives. To use computing safely and responsibly, we need to be aware of privacy, security, and ethical issues. As programmers, we need to understand how our programs will be used and be responsible for the consequences. As computer users, we need to understand how to protect ourselves and our privacy when using a computer.

16

The AP Create Performance Task:

The through course assessment is a performance task designed to gather evidence of student proficiency in the learning objectives. The AP Create Performance Tasks (PT) is an in-class assessment, administered by the teacher, that allows students to exemplify their learning through an authentic, “real-world” creation. In the Create Performance Task, students will design and implement a program to solve a problem, enable innovation, explore personal interest, or express creativity. Their development process should include exploration, investigation, reflection, design, implementation, and testing your program.

Students will gain the experience necessary to complete the Create Performance Task in class. There are four practice PTs throughout the course in which students research topics in computing and create their own digital artifacts. Sufficient time is set aside in the course for students to prepare for and complete the Create Performance Task.

The AP Exam:

The AP Computer Science Principles end-of-course exam has consistent question types and weighting every year, so you and your students know what to expect on exam day.

Section I: End-of-Course Multiple-Choice Exam

70 multiple-choice questions | 120 minutes | 70% of score | 4 answer options

- 57 single-select multiple-choice
- 5 single-select with reading passage about a computing innovation
- 8 multiple-select multiple-choice: select 2 answers

Section II: Create Performance Task: Written Responses

30% of score

- Create Performance Task program code, video, and student-authored Personalized Project Reference | 9 hours in-class
- 4 written response prompts | 60 minutes end-of-course exam

The second section of the AP Computer Science Principles Exam consists of a through-course Create Performance Task where students will develop a computer program of their choice and an end-of-course written response section where students demonstrate their understanding of their personal Create Performance Task by answering four prompts. Students will be provided 9 hours of in-class time to complete their program, video, and develop a Personalized Project Reference.

Course Breakdown

Module 1: Getting Started with Roblox Studio (3 weeks, 15 hours)

In this module, students will learn the basics of programming while becoming familiar with coding in Roblox Studio. The basic lesson structure will include an introductory programming concept in the CodeHS editor. Then, students will apply this concept to programming in Roblox Studio.

17

Subsection	EKs	Lessons / Topics
Programming Languages <u>Lessons:</u> <i>What is Computer Science?</i>	AAP-2.A.2 AAP-2.A.3 CRD-1.A.1 CRD-1.A.2 CRD-2.B.1	What is Programming? Programming Languages Computing Innovations
Abstraction <u>Lessons:</u> <i>Abstraction and APIs</i>	AAP-3.B.1 AAP-3.B.7 AAP-3.B.2 CRD-2.G.1 AAP-3.B.3 DAT-1.A.2 AAP-3.B.4 DAT-1.A.5 AAP-3.B.6	Procedural Abstraction Modularity Program Reuse Digital Data (Bits) Reducing Complexity
Programming Style <u>Lessons:</u> <i>Intro to Programming with Lua</i> <i>Abstraction and APIs</i>	CRD-2.G.1 CRD-2.B.5 CRD-2.G.2 AAP-3.D.1 AAP-2.M.1 AAP-3.D.2 AAP-2.M.3 AAP-3.D.3 CRD-2.B.1 AAP-3.D.4 CRD-2.B.2 AAP-3.D.5	Program Documentation Using Existing Code and Libraries APIs Commenting Code
Debugging Strategies <u>Lessons:</u> <i>Debugging in Roblox Studio</i>	CRD-2.I.1 CRD-2.I.2 CRD-2.I.3 CRD-2.I.5	Logic Errors Syntax Errors Run-Time Errors Testing
Variables <u>Lessons:</u>	AAP-1.A.1 AAP-1.B.2 AAP-1.A.2 AAP-1.B.3 AAP-1.A.3 DAT-1.A.1	Variable Names Assignment Operators Data Types

<i>Variables</i>	AAP-1.A.4 AAP-1.B.1	Variables as Abstractions
Arithmetic Expressions <u>Lessons:</u> <i>Basic Math in Coding</i> <i>Introduction to Programming with Lua</i>	CRD-2.B.4 AAP-2.B.3 CRD-2.I.5 AAP-2.B.4 CRD-2.J.1 AAP-2.B.5 CRD-2.J.2 AAP-2.C.1 CRD-2.J.3 AAP-2.C.2 AAP-2.A.1 AAP-2.C.3 AAP-2.A.2 AAP-2.C.4 AAP-2.A.3 AAP-2.D.1 AAP-2.A.4 AAP-2.D.2	Program Behavior Testing using Inputs Arithmetic Expressions Order of Operations Modulus String Concatenation
<p>Example Activities and Big Idea/Computational Thinking Practice</p> <p><i>Selling Rubies:</i> In this activity, students create a function called <code>sellRubies</code> that sells all of the rubies in the player's inventory. The <code>sellRubies</code> function completes the following tasks: calculates the amount of gold earned based on the number of rubies in the ruby inventory and adds this to the variable storing the player's gold, prints a message to the console, and updates the variable storing the ruby inventory to 0. As the player finds rubies and adds them to their inventory, students call the <code>sellRubies</code> function to sell them and earn gold. This activity requires students to design and create functions for repeated processes within their program. [Big Idea AAP][Computational Thinking Practice 2]</p> <p><i>Computing Innovations</i> (as part of <i>What is Computer Science</i> lesson): In this activity, students perform an online search for examples of computing innovations that have had an impact on society, economy, or culture. The computing innovations must consume, produce, and/or transform data. A computing innovation can be a physical object like a self-driving car, non-physical software like a picture editing software, or a non-physical concept like e-commerce.</p> <p>Students</p> <ul style="list-style-type: none"> ● practice searching and evaluating sources relevant to computing innovations ● write the definition of <i>computing innovation</i> in their own words ● list 5 items that ARE computing innovations and 5 items that are NOT computing innovations. For each one, explain the reason why it is or is not a computing innovation ● identify the data used in at least one computing innovation and explain how the data is consumed, produced, or transformed by the given computing innovation. <p>[Computing Innovation 1, Prompt B][Big Idea IOC][Computational Thinking Practice 5]</p>		

Module 2: User Interaction and Control Structures (3 weeks, 15 hours)

In this module, students extend their understanding of programming in Lua to use control structures to create more complex programs. Students also learn about the `Humanoid` object and how to use `Touched` Events to make their programs interactive.

Subsection	EKs	Lessons / Topics
Control Structures <u>Lessons:</u> <i>Booleans and Conditionals</i> <i>For Loops</i> <i>While Loops</i>	AAP-2.G.1 AAP-2.J.1 AAP-2.K.1	If/Else Statements (Selection) For Loops and While Loops (Iteration)
Comparison Operators <u>Lessons:</u> <i>Comparison and Logical Operators</i> <i>Operators in Roblox</i>	AAP-2.E.1 AAP-2.F.4 AAP-2.E.2 AAP-2.F.5 AAP-2.F.1 AAP-2.F.2 AAP-2.F.3	Booleans Relational Operators Operands
Selection <u>Lessons:</u> <i>Booleans and Conditionals</i> <i>Random Numbers</i>	AAP-2.G.1 AAP-2.I.2 AAP-2.H.1 AAP-2.L.3 AAP-2.H.2 AAP-2.L.4 AAP-2.H.3 AAP-3.E.2 AAP-2.I.1	Selection Conditional Statements Nested Conditionals Equivalent Boolean Statements Random Numbers
Iteration <u>Lessons:</u> <i>While Loops</i> <i>For Loops</i>	AAP-2.K.2 AAP-2.L.1 AAP-2.K.3 AAP-2.L.2 AAP-2.K.4 AAP-2.L.5 AAP-2.K.5	Iteration Loops Different but Equivalent Algorithms
Designing Algorithms <u>Lessons:</u> <i>Algorithms</i>	AAP-2.A.4 AAP-2.M.2 AAP-2.B.1 AAP-4.A.2 AAP-2.B.2 AAP-4.A.4 AAP-2.B.6 AAP-4.A.5 AAP-2.B.7 AAP-4.A.6	Sequencing, Selection, Iteration Clarity and Readability Using Existing Algorithms Optimization and Efficiency
Algorithm Efficiency <u>Lessons:</u> <i>Algorithms</i>	AAP-2.O.4 DAT-2.D.3 AAP-2.O.5 AAP-2.P.1 AAP-2.P.2 AAP-2.P.3	Using Existing Algorithms Search Tools Linear Search Binary Search Algorithm Efficiency Heuristics

	AAP-4.A.1 AAP-4.A.3 AAP-4.A.7 AAP-4.A.8 AAP-4.A.9	
<p>Example Activity and Big Idea/Computational Thinking Practice</p> <p><i>Can You Pick the Lock?:</i> Students write a program that uses a for loop to simulate a player trying to pick a lock to open a treasure chest. To pick the lock, the player must get the <code>lockStrength</code> variable to 0. The player has three attempts to open the lock. After the player has tried to open the lock three times (after the for loop), students print a message that says whether or not the player was able to open the treasure chest.</p> <p>This activity requires students to use multiple program statements in a specific order as well as implement iteration to solve a problem.</p> <p>[Big Idea AAP][Computational Thinking Practice 1][Computational Thinking Practice 2]</p>		

20

Module 3: Practice PT: Pair-Programming Obby (3 days, 3 hours)

In this practice performance task, students will practice and use pair programming to create an obby (obstacle course) that utilizes at least six parts, a script, a function, a loop, variables, and a conditional statement.

Subsection	EKs	Lessons / Topics
Collaboration and Communication	CRD-1.A.3 CRD-2.F.7 CRD-1.A.4 CRD-2.G.1 CRD-1.B.2 CRD-2.G.3 CRD-1.C.1 CRD-2.G.4 CRD-2.F.5 CRD-2.G.5 CRD-2.F.6 CRD-2.H.1 CRD-2.H.2	Collaboration Diverse Perspectives Bias Avoidance Pair-Programming Design and Planning Program Documentation Acknowledgement of Reused Code
<p>Example Activity and Big Idea/Computational Thinking Practice</p> <p><i>Build Your Obby:</i> Following the milestones and the pseudocode plan that students have laid out, students use pair-programming to write the code for their obby. They then test their code along the way to make sure they have solved each milestone. This activity allows students to develop something completely unique with their programming skills and implement a successful algorithm of their own design.</p> <p>Students then reflect upon and answer the following questions:</p> <ol style="list-style-type: none"> 1. Program Design, Function, and Purpose: Identify the programming language and purpose of your program. 2. Program Design, Function, and Purpose: Identify an expected user of your program. Describe one way your program’s design meets the needs of this user. 		

3. **Algorithm Development:** Identify an algorithm or function that is fundamental for your program to achieve its intended purpose. Describes in general what the identified procedure does and how it contributes to the overall functionality of the program.
4. **Algorithm Development:** Consider the first iteration statement in your program. Identify the number of times the body of your iteration statement will execute. Describe a condition or error that would cause your iteration statement to not terminate and cause an infinite loop. If no such condition or error exists, explain how the loop could be modified to cause an infinite loop.
5. **Error and Testing:** Consider the first procedure (function) in your program. Describe a change to your procedure that will result in an error. Explain why this change will result in an error.

[Big Idea CRD][Computational Thinking Practice 2]

Module 4: Parameters and Return Values (3 weeks, 15 hours)

In this module, students learn how to write reusable code with functions and parameters.

21

Subsection	EKs	Lessons / Topics
User Input <u>Lessons:</u> <i>User Input</i>	AAP-1.C.4 CRD-2.C.5 AAP-3.A.6 CRD-2.C.6 AAP-3.A.9 CRD-2.D.2 CRD-2.C.2 CRD-2.C.3	User Input Adding Proximity Prompts to Parts
Functions and Parameters <u>Lessons:</u> <i>Parameters</i> <i>Parameters in Roblox</i> <i>Return Values</i> <i>Return Values in Roblox</i>	CRD-2.C.6 AAP-3.A.3 CRD-2.D.2 AAP-3.A.4 CRD-2.B.3 AAP-3.B.5 CRD-2.C.4 AAP-3.C.1 AAP-3.A.1 AAP-3.C.2 AAP-3.A.2 AAP-2.M.2	User and Application Input Program Output Procedures Parameters Return Values Using Existing Algorithms

Example Activity and Big Idea/Computational Thinking Practice

Character Generator: Students write a program with a function that generates a character with two random traits. This function should take two parameters which are the two traits the student chooses. These can be characteristics such as character type (elf, human, orc, etc.), strength, charisma, or agility. The function should print a statement that describes the generated character. For example:

Your character is a(n) Wizard.

Your power: Your strength is that of the average human, but your wits are envied by others.

Students need to consider the function abstractly as a means for taking specific data via the parameters and creating a unique output (the random character) based on those inputs.

[Big Idea AAP][Computational Thinking Practice 3]

Module 5: Practice PT: Scavenger Hunt (3 days, 3 hours)

In this practice performance task, students will create a scavenger hunt in Roblox.

Example Activity and Big Idea/Computational Thinking Practice

Create a Scavenger Hunt! In this activity, students create a scavenger hunt in Roblox. They will work on creating milestones and using pseudocode to program game instructions that direct the user to find items hidden in the world. They will iterate and test their code along the way to make sure they have solved each milestone

[Big Idea CRD][Computational Thinking Practice 4]

22

Module 6: Data Structures (3 weeks, 15 hours)

In this module, students learn about arrays as a way to store data more efficiently in their programs. They learn how to loop through arrays to access elements within an array and how to use folders to organize parts in Roblox Studio.

Subsection	EKs	Lessons / Topics
Basic Data Structures <u>Lessons:</u> <i>Intro to Arrays and Accessing an Element in an Array</i> <i>Adding and Removing Elements from an Array</i>	DAT-1.A.1 AAP-1.A.1 AAP-1.C.1 AAP-1.C.2 AAP-1.C.3 AAP-1.D.6 AAP-1.D.7 AAP-1.D.8 AAP-2.N.2 AAP-2.N.1	Data Values Arrays and Elements Indices Array Procedures
Data Abstractions <u>Lessons:</u> <i>Looping Through Arrays</i> <i>Finding an Element in an Array</i>	AAP-1.D.1 AAP-1.D.5 DAT-2.E.4 AAP-1.D.2 AAP-1.D.3 AAP-1.D.4 DAT-2.E.2 DAT-2.D.4 DAT-2.E.5	Data Abstraction Translating and Transforming Data Filtering and Cleaning Patterns

<p>Traversing a List</p> <p><u>Lessons:</u> <i>Looping Through Arrays</i> <i>Adding and Removing Elements from an Array</i> <i>Finding and Element in an Array</i></p>	<p>DAT-2.D.6 AAP-2.O.1 AAP-2.O.2 AAP-3.C.1 AAP-3.C.2 AAP-3.A.6 AAP-2.O.3 AAP-3.A.5 AAP-3.A.7 AAP-3.A.8 AAP-3.E.1</p>	<p>Extract and Modify Information Traversing a List Iteration Statements</p>
<p>Simulation</p> <p><u>Lessons:</u> <i>Simulation</i></p>	<p>AAP-3.F.1 AAP-3.F.2 AAP-3.F.3 AAP-3.F.4 AAP-3.F.5 AAP-3.F.6 AAP-3.F.7 AAP-3.F.8</p>	<p>Simulations as Abstractions Bias in Simulations Random Number Generators</p>
<p>Example Activity and Big Idea/Computational Thinking Practice</p> <p><i>Park Clean Up:</i> Students write a program in Roblox where the player helps clean up a local playground. Students will use arrays to add a touched event to each piece of litter and to keep track of the litter the player has collected. Once all of the litter has been collected, the program will print a celebratory message to the console. This program requires students to use data stored in the litter array, touched events, and loops to enable the player to interact with the litter objects and collect them.</p> <p>[Big Idea DAT][Computational Thinking Practice 2]</p>		

Module 7: Digital Information (3 weeks, 15 hours)

In this module, students learn about the various ways to represent information digitally including number systems, encoding data, programmatically creating pixel images, comparing data encodings, and compressing and encrypting data.

Subsection	EKs	Lessons / Topics
<p>Number Systems</p> <p><u>Lessons:</u> <i>Intro to Digital Information</i> <i>Number Systems</i></p>	<p>CRD-2.C.1 DAT-1.A.7 CRD-2.D.1 DAT-1.B.1 CRD-2.J.2 DAT-1.B.2 CRD-2.J.3 DAT-1.B.3 CRD-2.I.4 DAT-1.C.1 DAT-1.A.2 DAT-1.C.2 DAT-1.A.3 DAT-1.C.3</p>	<p>Computing Devices Abstraction Program Input and Output Bits and Bytes Overflow Errors Range of Value Limits Binary and Decimal Systems</p>

	DAT-1.A.4 DAT-1.A.5 DAT-1.A.6	DAT-1.C.4 DAT-1.C.5	
Data Compression <u>Lessons:</u> <i>Data Compression</i> <i>Lossy Compression</i>	DAT-1.A.8 DAT-1.A.9 DAT-1.A.10 DAT-1.D.1 DAT-1.D.2 DAT-1.D.3	DAT-1.D.4 DAT-1.D.5 DAT-1.D.6 DAT-1.D.7 DAT-1.D.8	Lossless Data Lossy Data Digital and Analog Data
Cryptography <u>Lessons:</u> <i>Cryptography</i>	AAP-4.B.1 AAP-4.B.2 AAP-4.B.3 IOC-2.B.8 IOC-2.B.5		Decidable Problems Computer Viruses Encryption

24

Example Activity and Big Idea/Computational Thinking Practice

Reflection: Caesar Cipher: Students first explore the Caesar Cipher by encrypting and decrypting a message, and then they explore a program that easily cracks a Caesar Cipher by using brute force. Students then reflect on the limited strength of the Caesar Cipher as an encryption method. This activity encourages students to consider encryption strength as a security issue which can be expanded to how we create a safer computing culture.

[Big Idea IOC][Computational Thinking Practice 6]

Roblox Simulation Activity: CodeHS Escape Rooms

This simulation is a single-player game that takes place in Karel's castle. Students are lost in the castle and need to find their way out of multiple rooms in order to explore the remainder of the castle. In the first room, students convert a randomly selected number in decimal format to a binary sequence using torches. Students discover RGB values hidden in the second room in order to add some color to the large banner hanging in the room. Correctly solving the puzzles in each room will open doors to other locations in Karel's castle.

Module 8: Practice PT: Create a Color Filter (3 days, 3 hours)

In this practice performance task, students will create two custom color filters in Roblox studio. The player will be able to apply a color filter to a "pixel image" by pressing the button for that filter. Students can choose this practice PT or the following one.

Example Activity and Big Idea/Computational Thinking Practice

Create Your Own Color Filter: In this activity, students create two custom color filters in Roblox studio. Each color filter function applies a different filter by manipulating the red, green, and blue values of an object's Color property. Students test their color filters throughout the process, and experiment with different ways of modifying the pixels.

[Big Idea CRD][Computational Thinking Practice 1]

Module 9: Practice PT: Steganography (3 days, 3 hours)

In this practice performance task, students will encrypt a secret message within the color code of Roblox parts! The player will be able to decrypt the message by clicking on each part. Students can choose this practice PT or the previous one.

Example Activity and Big Idea/Computational Thinking Practice
Create a Steganography Cipher: Students use a form of cryptography called steganography to hide a secret image inside of a cover image. They are required to use a solid degree of abstraction since several functions will be required for each part of the encoding and decoding process. This also continues their consideration and discussions of privacy issues in computing.
[Big Idea IOC][Computational Thinking Practice 3]

Module 10: The Internet (2 weeks, 10 hours)

In this module, students explore the structure and design of the internet, and how this design affects the reliability of network communication, the security of data, and personal privacy. Students will learn about the protocols and algorithms used on the internet and the importance of cybersecurity.

25

Subsection	EKs	Lessons / Topics
Internet Hardware and Addresses <i>Lessons:</i> <i>Welcome to the Internet</i> <i>Internet Hardware</i> <i>Internet Addresses</i>	CSN-1.A.1 CSN-1.A.8 CSN-1.A.2 CSN-1.B.3 CSN-1.A.3 CSN-1.B.4 CSN-1.A.4 CSN-1.A.7	Protocols Computing Devices Computer Networks Bandwidth
Routing <i>Lessons:</i> <i>Routing</i>	CSN-1.A.5 CSN-1.E.2 CSN-1.A.6 CSN-1.E.3 CSN-1.B.5 CSN-1.E.4 CSN-1.B.6 CSN-1.E.5 CSN-1.B.7 CSN-1.E.6 CSN-1.E.1 CSN-1.E.7	Routing Scalability Fault-Tolerance Redundancy
Packets and Protocols <i>Lessons:</i> <i>Packets and Protocols</i>	CSN-1.B.1 CSN-1.D.1 CSN-1.B.2 CSN-1.D.2 CSN-1.C.1 CSN-1.D.3 CSN-1.C.2 DAT-2.B.1 CSN-1.C.3 DAT-2.B.3 CSN-1.C.4 DAT-2.B.5	Datastreams Packets IP, TCP, UDP HTTP Metadata
Computing Systems	DAT-2.C.7 CSN-2.A.6 DAT-2.C.8 CSN-2.A.7 CSN-2.A.1 CSN-2.B.1 CSN-2.A.2 CSN-2.B.2	Parallel Systems Scalability of Systems Sequential Computing Parallel Computing

<u>Lessons:</u> <i>Sequential, Parallel & Distributed</i>	CSN-2.A.3 CSN-2.A.4 CSN-2.A.5	CSN-2.B.3 CSN-2.B.4 CSN-2.B.5	Distributed Computing Efficiency of Solutions Speedup
Impact of the Internet <u>Lessons:</u> <i>The Impact of the Internet</i> <i>Creative Credit and Copyright</i>	IOC-1.A.1 IOC-1.A.3 IOC-1.A.4 IOC-1.A.5 IOC-1.B.1 IOC-1.B.2 IOC-1.B.3 IOC-1.B.4 IOC-1.B.5 IOC-1.B.6 IOC-1.C.1 IOC-1.C.2 IOC-1.C.3 IOC-1.C.4 IOC-1.C.5 IOC-1.E.1	IOC-1.E.2 IOC-1.E.3 IOC-1.E.4 IOC-1.E.5 IOC-1.E.6 IOC-1.F.1 IOC-1.F.2 IOC-1.F.3 IOC-1.F.4 IOC-1.F.5 IOC-1.F.6 IOC-1.F.7 IOC-1.F.9 IOC-1.F.10 IOC-1.F.11	Computing Innovations Unintended Effects Impact on Society Rapid Sharing Digital Divide Citizen Science Crowdsourcing Creative Credit and Copyright
Cybersecurity <u>Lessons:</u> <i>Cybersecurity</i>	IOC-1.F.8 IOC-2.A.1 IOC-2.A.7 IOC-2.A.8 IOC-2.A.9 IOC-2.A.11 IOC-2.A.12 IOC-2.A.13 IOC-2.A.15 IOC-2.B.1 IOC-2.B.2 IOC-2.B.3 IOC-2.B.4	IOC-2.B.5 IOC-2.B.6 IOC-2.B.7 IOC-2.B.9 IOC-2.B.10 IOC-2.B.11 IOC-2.C.1 IOC-2.C.2 IOC-2.C.3 IOC-2.C.4 IOC-2.C.5 IOC-2.C.6 IOC-2.C.7	Legal and Ethical Concerns Personally Identifiable Info (PII) Digital Footprint Authentication Certificate Authorities (CAs) Computer Viruses Malware Phishing Keylogging Rogue Access Points Encryption
<p>Example Activity and Big Idea/Computational Thinking Practice</p> <p><i>Reflection: Unintended Effects</i> - Students consider the WWW, targeted advertising and machine learning and data mining as examples of computing innovations. They also learn that responsible programmers try to consider the unintended ways their computing innovations can be used and the potential beneficial and harmful effects of these new uses although it may not be possible for a programmer to consider all the ways a computing innovation can be used.</p> <p>They then consider <i>Pokemon Go</i> (from the previous video) or research another innovation that had unintended effects. Students answer in their reflections:</p> <ol style="list-style-type: none"> 1. What were the intended effects and what were the unintended effects? 2. Explain beneficial and harmful effects of at least one other computing innovation on society, economy, or culture. 			

[Computing Innovation 2, Prompt A][Big Idea IOC][Computational Thinking Practice 5]

Packets and Protocols: The Story of the Internet - In their own words, students tell the story of downloading an image from a website on the internet. They tell the story step by step of how their computer finds the relevant server, requests information from the server, and receives it. Students are required to include distinctions between the internet and the World Wide Web, such as:

- The World Wide Web is a system of linked pages, programs, and files.
- HTTP is a protocol used by the World Wide Web.
- The World Wide Web uses the Internet.

[Big Idea CSN][Computational Thinking Practice 5]

Roblox Simulation Activity: Routing Ruckus

In this game, students must navigate between cities and towns while connecting network cables to floating hubs. Successfully completing the network with a high level of fault tolerance will award the student with a Roblox Network Navigator badge. This experience allows up to two players in each simulation at a time. Both players can work together to complete the network, but watch out for the UFO!

27

Module 11: Project: Effects of the Internet (3 days, 3 hours)

In this project, students will choose an innovation that was enabled by the Internet and explore the positive and negative impacts of their innovation on society, economy, and culture. Students will develop a computational artifact that illustrates, represents, or explains the innovation's purpose, function, or effect.

Example Activity and Big Idea/Computational Thinking Practice

The Effects of the Internet: Students provide evidence of the extensive knowledge they have developed about a chosen Internet-based innovation and its impact(s). Students include citations, as applicable, within their written responses.

Within their computational artifact, students explain at least one beneficial effect and at least one harmful effect the Internet-based innovation has had, or has the potential to have, on society, economy, or culture. They also identify data privacy, security, or storage concerns for their computing innovation.

[Computing Innovation 3, Prompt C][Big Idea IOC][Computational Thinking Practice 5]

Module 12: Data (1 week, 5 hours)

In this module, students will explore using computational tools to store massive amounts of data, manipulate and visualize data, find patterns in data, and draw conclusions from data. Students will consider how the modern wealth of data collection has impacted society in positive and negative ways.

Subsection	EKs	Lessons / Topics
<p>Visualizing and Interpreting Data</p> <p><u>Lessons:</u> <i>Getting Started with Data</i> <i>Visualizing and Interpreting Data</i></p>	DAT-2.A.1 DAT-2.D.5 DAT-2.A.2 DAT-2.D.6 DAT-2.C.1 DAT-2.E.1 DAT-2.D.1 DAT-2.E.2 DAT-2.D.2 DAT-2.E.3 DAT-2.D.3 DAT-2.E.5 DAT-2.D.4	Filtering and Cleaning Data Patterns and Trends Search Tools Tables, Diagrams and Displays Interactive Visualizations Combining Data Sources
<p>Collecting Data and Data Limitations</p> <p><u>Lessons:</u> <i>Data Collection and Limitations</i></p>	DAT-2.A.3 DAT-2.C.2 DAT-2.A.4 DAT-2.C.3 DAT-2.B.1 DAT-2.C.4 DAT-2.B.2 DAT-2.C.5 DAT-2.B.3 DAT-2.C.6 DAT-2.B.4 DAT-2.D.6 DAT-2.B.5 CRD-2.F.3	Metadata Correlation Using a Variety of Sources Incomplete or Invalid Data Bias Surveys, Testing, Interviews
<p>Example Activity and Big Idea/Computational Thinking Practice</p> <p><i>Importance of Metadata:</i> Students consider how metadata can increase the effective use of data or data sets by providing additional information. They consider the importance of metadata and reflect on why metadata is important for a data set, how metadata help in finding specific data, and what metadata should reveal about the data.</p> <p>[Big Idea DAT][Computational Thinking Practice 5]</p>		

28

Module 13: Project: Present a Data-Driven Insight! (3 days, 3 hours)

In this project, students will work with a partner to answer a question of personal interest using a publicly available data set. Students will need to produce data visualizations and explain how these visualizations led to their conclusions. They will develop a computational artifact that illustrates, represents, or explains their findings, and communicate their findings to their classmates.

<p>Example Activity and Big Idea/Computational Thinking Practice</p> <p><i>Present a Data-driven Insight:</i> Students consider how the amount of collected data impacts our lives in ways that require considerable study and reflection for us to fully understand them. Students explore a question that can be answered by analyzing a dataset. They form a question and use visualization techniques to analyze the data to answer the question.</p> <p>[Big Idea DAT][Computational Thinking Practice 6]</p>
--

Module 14: Project: Impact of Computing (3 days, 3 hours)

In this project module, students will explore computing innovations, reflect on how data can be collected and used, and consider the privacy and security concerns when personal information is collected.

Subsection	EKs	Lessons / Topics
Computing Innovations	IOC-2.A.2 IOC-2.A.10 IOC-2.A.3 IOC-2.A.14 IOC-2.A.4 IOC-1.F.11 IOC-2.A.5 CRD-1.A.1 IOC-2.A.6 CRD-1.A.2	Artifact Creation Computing Innovations Data Input and Output Data Privacy and Security

Modules 15 & 16: Create Performance Task and AP Exam Review (3 weeks, 15 hours)

This time is set aside for students to prepare for the Explore MCQ and create their AP Create Performance Task. Students will be given the chance to review course content and practice the skills necessary to complete the Create Performance Task. The Create PT will be administered over 9 hours of class time.

29

Example Activity and Big Idea/Computational Thinking Practice

Create Performance Task: Students develop a program of their choice. Their development process includes iteratively designing, implementing, and testing their program. Students are strongly encouraged to work with another student in their class.

[Big Idea AAP][Computational Thinking Practices 1-4]

Module 17: Creative Development (2-4 weeks, 10-20 hours)

In this module, students will brainstorm their own final project, discuss their ideas with their peers, scope their project to fit within the time constraints of the class, plan out milestones for incremental development, and create their own final product from scratch. This project allows students to think creatively about the applications of the concepts covered in the course, and create something of personal value.

Subsection	EKs	Lessons / Topics
Design Thinking <u>Lessons:</u> <i>Intro to Design Thinking</i>	CRD-1.A.4 CRD-2.E.4 CRD-1.A.5 CRD-2.F.1 CRD-1.A.6 CRD-2.F.2 CRD-2.A.1 CRD-2.F.5 CRD-2.A.2 CRD-2.F.6 CRD-2.E.1 CRD-2.F.7 CRD-2.E.2 IOC-1.A.2	Computing Innovations Development Process Program Specifications Design Phase Communication Collaboration
Brainstorm, Prototype & Test	CRD-2.E.2 CRD-2.F.4 CRD-2.F.7 CRD-2.F.3 CRD-1.A.5 IOC-1.D.1 CRD-1.A.6 IOC-1.D.2	Development Process User Testing User Research Diverse Perspectives

<u>Lessons:</u> <i>Prototype Test</i>	CRD-1.A.4 IOC-1.D.3 CRD-2.E.3 IOC-1.F.11	Iterative Development Human Biases Legal and Ethical Concerns
Project Prep and Development <u>Lessons:</u> <i>Project Prep and Development</i>	CRD-1.B.1	Online Collaboration Tools
<p>Example Activity and Big Idea/Computational Thinking Practice</p> <p><i>Roblox User Experience Analysis:</i> Students search for 2 websites or apps, one with a good UI and one with a not-so-good UI. They learn to discriminate features of solid UI design in terms of accessibility and more before moving onto prototyping their creative project for the unit.</p> <p>Students analyze two Roblox experiences through the lens of user experience. As students play through each experience, they consider the following questions:</p> <ul style="list-style-type: none"> ● Is the purpose of the game clear? ● How easy is it to figure out how to play the game? ● Is it clear where to go and what to do? ● Are there any moments of confusion? ● Cite specific aspects of the game that enhance or detract from the user experience of playing the game. <p>Through this analysis, students learn to discriminate the features of solid user experience before moving on to prototyping their creative project for the unit.</p> <p>[Big Idea CRD][Computational Thinking Practices 6]</p>		

30

To: Glenn Mitcham

From: ELHS Applied Technology Teachers

Re: Proposal to Implement an Elective Course: Video Game Design

Background / Rationale

Offering video game design as a course in high school provides several compelling benefits that align with educational goals, student interests, and workforce demands. Here are key reasons to include video game design in a high school curriculum:

1. Engages Students in a Relevant and Exciting Medium

Video games are a medium many students are passionate about, making this course inherently engaging. Offering video game design allows students to channel their love for gaming into a productive and creative outlet, increasing motivation and participation in learning.

2. Teaches Valuable 21st-Century Skills

Technical Skills: Students learn coding, graphic design, animation, and game mechanics, which are transferable to careers in technology, engineering, and creative industries.

Problem-Solving: Designing games involves tackling complex problems, debugging, and iterative testing, fostering critical thinking and resilience.

Collaboration: Many game design projects require teamwork, mirroring real-world industry practices and building interpersonal skills.

Project Management: Students plan, create, and deliver projects on deadlines, helping them develop organizational and time-management skills.

3. Promotes STEAM Integration

Video game design integrates Science, Technology, Engineering, Art, and Mathematics, offering a holistic STEAM learning experience. Students learn to combine technical programming with artistic creativity, bridging the gap between traditionally separate disciplines.

4. Prepares Students for Future Careers

The gaming industry is a multibillion-dollar sector with growing job opportunities in game development, software engineering, graphic design, and related fields. Even for students who do not pursue game design professionally, the skills they acquire (e.g., coding, logic, and storytelling) are in demand in numerous industries, from tech startups to entertainment.

5. Encourages Creativity and Storytelling

Video game design fosters creative thinking as students create characters, build immersive worlds, and design engaging narratives. It offers an opportunity for self-expression through interactive storytelling and digital art.

6. Supports Computational Thinking

The course develops computational thinking by teaching students to break down problems into manageable parts, use algorithms, and think logically—skills crucial for success in computer science and beyond.

7. Attracts Diverse Learners

Video game design can attract students who might not typically enroll in traditional computer science courses, especially those interested in the arts, storytelling, or gaming. This inclusivity can inspire more students to pursue STEAM careers, closing participation gaps.

8. Builds Community and Collaboration

Collaborative game design projects encourage teamwork and communication while helping to build a sense of community within the classroom.

Students can showcase their creations in school-wide exhibitions or competitions, fostering pride and connection.

Prerequisites

No Prerequisites.

Expected Impact on FTE

There will be no impact on FTE. We are offering one less section of Tech Essentials.

Timeline

January 2025	Proposal submitted to Academic Committee
February 2025	Proposal submitted for Board approval
February 2025	Course description added to Course Description Booklet
March 2025	Course offered to students for the 2025–26 school year
Summer 2025	Continuation and completion of unit development
Fall 2025	Course will be taught by Orion Smith

Research

After researching various curricula for a new video game design course, we carefully evaluated multiple options to find the best fit for our students. Our goal was to select a program that offered a comprehensive, engaging, and beginner-friendly approach while fostering critical skills in coding and game development. After comparing features such as course content, accessibility, and alignment with educational standards, we decided to propose the adoption of the CodeHS course. This curriculum stood out for its structured lessons, interactive projects, and ability to effectively introduce students to both the technical and creative aspects of video game design.

- Materials Reviewed/Created for Context and Consideration
 - Sample Course Descriptions and Syllabi
 - [Overview of the course](#)
 - [Syllabus](#)

Budget

- Summer 2025 work time to prepare for first offering of the course.
- \$500 annually for consumable supplies.

Course Description

The CodeHS video game design curriculum teaches the foundations of creating video games in JavaScript. This course is an introductory course. Its curriculum teaches the foundations of computer science and basic programming, with an emphasis on helping students develop logical thinking and problem solving skills.

Unit 1: Introduction to Programming

Unit 2: Code Basics

Unit 3: Canvas and Graphics

Unit 4: Graphics Challenges

Unit 5: Control Structures and Challenges

Unit 6: Functions and Challenges

Unit 7: Animations and Games

Unit 8: Data Structures

Unit 9: Projects

C. Fiber Installation Project

35

Motion: I move the Board of Education approve the contract with Fiberlink to upgrade the aerial fiber optic cable network for the amount of \$65,144.80.



509 Burcham Drive, East Lansing, MI 48823
Technology & Media Services Department
(517) 333-7418 Phone (517) 333-7404 Fax

East Lansing
Public Schools

March 3, 2025

To: Board of Education
From: Christian Palasty, Director of Technology & Media Services

Subj: ACTION ITEM – FIBER INSTALLATION PROJECT

Motion: MOVE TO APPROVE THE CONTRACT WITH FIBERLINK TO UPGRADE THE AERIAL FIBER OPTIC CABLE NETWORK FOR THE AMOUNT OF \$65,144.80

Numerous district operations take place over the WAN, to include; Internet access, security camera and access control management, HVAC operation and management, lighting management, student device operation and management, software distribution, and numerous other daily operations. The WAN is mission critical infrastructure for this district.

Working within the federal E-Rate program, ELPS requested bids for the replacement of fiber between Donley Elementary and Whitehills Elementary with a new segment from Whitehills north to the Towar site to support the new administration building. If approved through the E-Rate program, ELPS would be responsible for 40% of the cost for this project.

D. Award Bids for Safety, Security, and Accessibility Bond Bid Package #1 New37 Administration Building

Motion: I move the Board of Education award the following bids related to the New Administration Building as follows:

E. Category 04: Masonry- Schiffer Mason Contractors, Inc.	F. \$ 97,900
G. Category 05: Structural Steel- Custom Steel Fabricators, LLC	H. \$ 55,230
I. Category 06: Metal Studs & Drywall- Christman Constructors, Inc.	J. \$ 849,709
K. Category 07: General Trades- Moore Trospen Construction Company	L. \$ 444,500
M. Category 08: Roofing Systems- Roofing Innovations, LLC	N. \$ 138,455
O. Category 09: Alum., Glass & Glazing- Vos Glass	P. \$ 119,000
Q. Category 10: Composite Siding- Weatherwise/Rycam	R. \$ 128,850
S. Category 11: Flooring Systems- William Reichenbach Company	T. \$ 78,210
U. Category 12: Painting and Wall Covering- B & J Painting, Inc.	V. \$ 24,490
W. Category 16: Asphalt Paving- Leavitt & Starck Excavating, Inc.	X. \$ 41,800
Y. Category 17: Commissioning- Pro-MEC Engineering Services	Z. \$ 13,275
AA. Category 18: Material Quality Testing & Inspections- PSI - Intertek	BB. \$ 14,975
CC. Construction General Conditions 3%- Clark Construction	DD. \$ 60,192
EE. Total	FF. \$2,066,586
GG.	HH.



MEMORANDUM

TO: ELPS Board of Education, Dori Leyko, Superintendent

FROM: Lisa Allen, Director of Finance

SUBJECT: Action Item – Award Bids for Safety, Security, and Accessibility Bond Bid Package #1 New Administration Building

DATE: March 10, 2025

Recommendation:

It is recommended that the Board of Education award the following bids related to the New Administration Building as follows:

Category 04: Masonry- Schiffer Mason Contractors, Inc.	\$ 97,900
Category 05: Structural Steel- Custom Steel Fabricators, LLC	\$ 55,230
Category 06: Metal Studs & Drywall- Christman Constructors, Inc.	\$ 849,709
Category 07: General Trades- Moore Trospen Construction Company	\$ 444,500
Category 08: Roofing Systems- Roofing Innovations, LLC	\$ 138,455
Category 09: Alum., Glass & Glazing- Vos Glass	\$ 119,000
Category 10: Composite Siding- Weatherwise/Rycam	\$ 128,850
Category 11: Flooring Systems- William Reichenbach Company	\$ 78,210
Category 12: Painting and Wall Covering- B & J Painting, Inc.	\$ 24,490
Category 16: Asphalt Paving- Leavitt & Starck Excavating, Inc.	\$ 41,800
Category 17: Commissioning- Pro-MEC Engineering Services	\$ 13,275
Category 18: Material Quality Testing & Inspections- PSI - Intertek	\$ 14,975
Construction General Conditions 3%- Clark Construction	\$ 60,192
Total	\$2,066,586

Background:

I've attached the contract award recommendation letter and bid tabulation from Clark Construction for Bid Package #1—New Administration Building project.

Bids were due on February 5, 2025. This bid package included eighteen bid categories. Above are the recommendations for the remaining twelve categories and \$60,192 for professional service fees for construction management.

A representative from Clark Construction will attend the meeting on March 10, 2025, to answer questions if needed. Of course, you may communicate questions to the administration before the meeting, and we will do our best to respond promptly.



Headquarters
 3535 Moores River Drive
 Lansing, MI 48911
 517.372.0940 phone | 517.372.0668 fax

Southeast Michigan Office
 2660 Superior Court
 Auburn Hills, MI 48326
 248.286.1000 phone

Northern Michigan Office
 3432 US 23 South
 Alpena, MI 49707
 989.278.2272 phone

February 26, 2025

Lisa Allen Director of Finance
 501 Burcham Drive
 East Lansing, MI 48823

Re: East Lansing Public School – 2024 Bond Program
Bid Package #1 – New Administration Building
Contract Award Recommendation #2

www.clarkcc.com

Dear Mrs. Allen,

Clark Construction Company recommends East Lansing Public Schools enter into Contracts with each Trade Contractors listed below.

Competitive bids were received February 5, 2025. Clark Construction Company has conducted post-bid interviews with each of the Trade Contractors listed below. The recommended Trade Contractors provided the lowest responsible bid for the Work.

Trade Contract award recommendations:

<u>Bid Category/Area of Work</u>	<u>Trade Contractor</u>	<u>Amount</u>
• 04 Masonry	Schiffer Mason Contractors	\$ 97,900
• 05 Structural Steel	Custom Steel Fabrication	\$ 55,230
• 06 Metal Studs & Drywall	Christman Constructors Inc.	\$ 849,709
• 07 General Trades	Moore Trospen Construction.	\$ 444,500
• 08 Roofing Systems	Roofing Innovations	\$ 138,455
• 09 Alum., Glass, Glazing	Vos Glass	\$ 119,000
• 10 Composite Siding	Weatherwise/Rycam	\$ 128,850
• 11 Flooring Systems	William Reichenbach	\$ 78,210
• 12 Painting	B&J Painting	\$ 24,490
• 16 Asphalt Paving	Leavitt & Starck Excavating	\$ 41,800
• 17 Commissioning	Pro-MEC Engineering	\$ 13,275
• 18 Quality Testing	PSI-Intertek	\$ 14,975
Trade Contract Award Total		\$ 2,006,394
Construction General Conditions 3% (Clark Construction)		\$ 60,192
Subtotal		\$ 2,066,586
East Lansing Public Schools Construction Contingency 7%		\$ 144,661
TOTAL		\$ 2,211,247





The scope of work for Bid Package #1 includes the Demolition of the existing structures and site and the Construction the new administration offices on the Towar Avenue property. We have enclosed a bid tabulation and summary of bids received.

Please contact me should you have any questions regarding the above.

Sincerely,

CLARK CONSTRUCTION COMPANY

Joseph L. Lorenz
Sr. Project Manager

Enclosure
C: File w/Enc



24-2946: East Lansing Schools - New Administration Building - Bid Package #1

Prepared by Clark Construction Company - 3535 Moores River Dr, Lansing, MI 48911, USA

Project Lead: Joseph Lorenz (jlorenz@clarkcc.com)

Award Recommendations for Categories 4-12 & 16-18

Proposal Summary

Generated February 14, 2025

Base Bid

BID PACKAGES

BC-04: Masonry
BC-05: Structural Steel
BC-06: Structural Metal Studs and Drywall & Acoustical Ceilings
BC-07: General Trades, Rough & Finish Carpentry
BC-08: Roofing
BC-09: Glass & Glazing, Entrances and Storefronts, Windows, Curtain Wall
BC-10: Composite Wall Panels & Siding
BC-11: Flooring, Carpet, Vinyl, Hard Tile
BC-12: Painting and Wall Covering
BC-16: Asphalt Paving
BC-17: Commissioning
BC-18: Material Quality Testing & Inspections

Subtotal

Low Responsible Bidders

\$2,006,394

Company	Total Cost
Schiffer Mason Contractors, Inc.	\$97,900
Custom Steel Fabricators, LLC	\$55,230
Christman Constructors, Inc.	\$849,709
Moore Trosper Construction Company	\$444,500
Roofing Innovations, LLC	\$138,455
Vos Glass	\$119,000
Weatherwise/Rycam	\$128,850
William Reichenbach Company	\$78,210
B & J Painting, Inc.	\$24,490
Leavitt & Starck Excavating, Inc.	\$41,800
Pro-MEC Engineering Services	\$13,275
PSI - Intertek	\$14,975
Subtotal	\$2,006,394

2nd Apparent Low

Company	Total Cost
Xtreme Mason Contractors LLC.	\$112,972
Eagle Enterprise of Michigan, Inc.	\$87,290
William Reichenbach Company	\$922,000
Trumble Group	\$459,700
Lansing Glass Company	\$145,929
Slater solutions	\$137,695
Lansing Tile & Mosaic, Inc.	\$81,461
Niles Construction Services	\$26,064
Michigan Paving And Materials, Co.	\$45,650
Control Solutions Inc	\$15,000
Materials Testing Consultants	\$19,800
Subtotal	\$2,006,394

3rd Apparent Low

Company	Total Cost
Complete Enclosures, Inc	\$163,400
Howard Structural Steel, Inc.	\$90,166
DSI Acoustical Company	\$1,009,000
Christman Constructors, Inc.	\$483,700
Glazing Solutions, Inc.	\$155,750
Graham Construction	\$248,400
Superior Floor Coverings LLC	\$93,629
Murray Painting Co.	\$27,795
McKearney Asphalt & Sealing Inc	\$45,895
FST-HEA, LLC	\$22,678
SME	\$36,500
Subtotal	\$2,006,394

24-2946: East Lansing Schools - New Administration Building - Bid Package #1

Prepared by Clark Construction Company - 3535 Moores River Dr, Lansing, MI 48911, USA

Bid Package Lead: Joseph Lorenz (jlorenz@clarkcc.com)

Project Location: 509 Burcham Drive, East Lansing, MI 48823, United States of America

BC-04: Masonry

Generated February 14, 2025

Base Bid

Estimated Cost
\$102,590

LINE ITEMS

Masonry

Base Bid Total

COMBINED BIDS

Combined Bids of two (2) or more Bid Categories may be submitted. Separate Bids for each Bid Category included in a combined Bid are required.

Bid Category Numbers

Bid Category Descriptions

For the Lump Sum Base Bid of

ADDENDA

Acknowledges receipt of the following Addenda and has included the cost thereof in the Lump Sum Base Bid

No. 1, dated

No. 2, dated

No. 3, dated

No. 4, dated

No. 5, dated

No. 6, dated

REJECTION OF BID

Acknowledges the right of the Owner to accept or reject any or all Bids in whole or in part and to waive any informality or irregularity in the Bid, or to award the Contract to other than the low Bidder in its sole and absolute discretion.

ALTERNATE ACKNOWLEDGMENTS (LISTED IN EACH INDIVIDUAL BID PACKAGE)

Each Bidder must furnish alternate pricing for the Work of its respective Bid Category for the following alternates.

Alternates shall not be included in the Lump Sum Base Bid.

Alternate price shall include all costs for labor, material, equipment, service, overhead, and profit including any bonds and taxes as required in the Bid Documents to complete the Work of the Bid Category.

Alternate No. A-1 Pergola in the Courtyard

Alternate No. A-2 Courtyard Built-in Countertop

Alternate No. C-1 Sanitary Lateral Sewer Tap

Alternate No. C-2 Rolled Concrete Curb

Summary

Schiffer Mason Contractors, Inc.

Submitted by Brian Pixley

\$97,900

Original Proposal, February 5, 2025

Unit	Qty	Unit Cost	Total Cost
			\$97,900

			\$97,900
--	--	--	----------

			\$97,900
--	--	--	----------

COMBINED BIDS

Combined Bids of two (2) or more Bid Categories may be submitted. Separate Bids for each Bid Category included in a combined Bid are required.

Bid Category Numbers

Bid Category Descriptions

For the Lump Sum Base Bid of

ADDENDA

Acknowledges receipt of the following Addenda and has included the cost thereof in the Lump Sum Base Bid

1/30/2025

1/31/2025

NA

NA

NA

NA

REJECTION OF BID

Acknowledges the right of the Owner to accept or reject any or all Bids in whole or in part and to waive any informality or irregularity in the Bid, or to award the Contract to other than the low Bidder in its sole and absolute discretion.

ALTERNATE ACKNOWLEDGMENTS (LISTED IN EACH INDIVIDUAL BID PACKAGE)

Each Bidder must furnish alternate pricing for the Work of its respective Bid Category for the following alternates.

Alternates shall not be included in the Lump Sum Base Bid.

Alternate price shall include all costs for labor, material, equipment, service, overhead, and profit including any bonds and taxes as required in the Bid Documents to complete the Work of the Bid Category.

Alternate No. A-1 Pergola in the Courtyard

Alternate No. A-2 Courtyard Built-in Countertop

Alternate No. C-1 Sanitary Lateral Sewer Tap

Alternate No. C-2 Rolled Concrete Curb

Summary

Xtreme Mason Contractors LLC.

Submitted by Jim Conklin

\$112,972

Original Proposal, February 5, 2025

Unit	Qty	Unit Cost	Total Cost
			\$112,972

			\$112,972
--	--	--	-----------

			\$112,972
--	--	--	-----------

COMBINED BIDS

Combined Bids of two (2) or more Bid Categories may be submitted. Separate Bids for each Bid Category included in a combined Bid are required.

Bid Category Numbers

Bid Category Descriptions

For the Lump Sum Base Bid of

ADDENDA

Acknowledges receipt of the following Addenda and has included the cost thereof in the Lump Sum Base Bid

January 30, 2025

January 31, 2025

N/A

N/A

N/A

N/A

REJECTION OF BID

Acknowledges the right of the Owner to accept or reject any or all Bids in whole or in part and to waive any informality or irregularity in the Bid, or to award the Contract to other than the low Bidder in its sole and absolute discretion.

ALTERNATE ACKNOWLEDGMENTS (LISTED IN EACH INDIVIDUAL BID PACKAGE)

Each Bidder must furnish alternate pricing for the Work of its respective Bid Category for the following alternates.

Alternates shall not be included in the Lump Sum Base Bid.

Alternate price shall include all costs for labor, material, equipment, service, overhead, and profit including any bonds and taxes as required in the Bid Documents to complete the Work of the Bid Category.

Alternate No. A-1 Pergola in the Courtyard

Alternate No. A-2 Courtyard Built-in Countertop

Alternate No. C-1 Sanitary Lateral Sewer Tap

Alternate No. C-2 Rolled Concrete Curb

Summary

Complete Enclosures, Inc

Submitted by Keith Davenport

\$163,400

Original Proposal, February 5, 2025

Unit	Qty	Unit Cost	Total Cost
			\$163,400

			\$163,400
--	--	--	-----------

			\$163,400
--	--	--	-----------

COMBINED BIDS

Combined Bids of two (2) or more Bid Categories may be submitted. Separate Bids for each Bid Category included in a combined Bid are required.

Bid Category Numbers

Bid Category Descriptions

For the Lump Sum Base Bid of

ADDENDA

Acknowledges receipt of the following Addenda and has included the cost thereof in the Lump Sum Base Bid

1/30/25

1/31/25

n/a

n/a

n/a

n/a

REJECTION OF BID

Acknowledges the right of the Owner to accept or reject any or all Bids in whole or in part and to waive any informality or irregularity in the Bid, or to award the Contract to other than the low Bidder in its sole and absolute discretion.

ALTERNATE ACKNOWLEDGMENTS (LISTED IN EACH INDIVIDUAL BID PACKAGE)

Each Bidder must furnish alternate pricing for the Work of its respective Bid Category for the following alternates.

Alternates shall not be included in the Lump Sum Base Bid.

Alternate price shall include all costs for labor, material, equipment, service, overhead, and profit including any bonds and taxes as required in the Bid Documents to complete the Work of the Bid Category.

Alternate No. A-1 Pergola in the Courtyard

Alternate No. A-2 Courtyard Built-in Countertop

Alternate No. C-1 Sanitary Lateral Sewer Tap

Alternate No. C-2 Rolled Concrete Curb

Summary

24-2946: East Lansing Schools - New Administration Building - Bid Package #1

Prepared by Clark Construction Company - 3535 Moores River Dr, Lansing, MI 48911, USA

Bid Package Lead: Joseph Lorenz (jlorenz@clarkco.com)

Project Location: 509 Burcham Drive, East Lansing, MI 48823, United States of America

BC-05: Structural Steel

Generated February 14, 2025

Base Bid

Estimated Cost
\$79,803

LINE ITEMS

Structural Steel

Base Bid Total

COMBINED BIDS

Combined Bids of two (2) or more Bid Categories may be submitted. Separate Bids for each Bid Category included in a combined Bid are required.

Bid Category Numbers

Bid Category Descriptions

For the Lump Sum Base Bid of

ADDENDA

Acknowledges receipt of the following Addenda and has included the cost thereof in the Lump Sum Base Bid

No. 1, dated
No. 2, dated
No. 3, dated
No. 4, dated
No. 5, dated
No. 6, dated

REJECTION OF BID

Acknowledges the right of the Owner to accept or reject any or all Bids in whole or in part and to waive any informality or irregularity in the Bid, or to award the Contract to other than the low Bidder in its sole and absolute discretion.

ALTERNATE ACKNOWLEDGMENTS (LISTED IN EACH INDIVIDUAL BID PACKAGE)

Each Bidder must furnish alternate pricing for the Work of its respective Bid Category for the following alternates.

Alternates shall not be included in the Lump Sum Base Bid.

Alternate price shall include all costs for labor, material, equipment, service, overhead, and profit including any bonds and taxes as required in the Bid Documents to complete the Work of the Bid Category.

Alternate No. A-1 Pergola in the Courtyard
Alternate No. A-2 Courtyard Built-in Countertop

Alternate No. C-1 Sanitary Lateral Sewer Tap
Alternate No. C-2 Rolled Concrete Curb

Summary

Custom Steel Fabricators, LLC

Submitted by Tim Deboer

\$55,230

Original Proposal, February 5, 2025

Unit	Qty	Unit Cost	Total Cost
Structural Steel			\$55,230
Base Bid Total			\$55,230

Eagle Enterprise of Michigan, Inc.

Submitted by Keith Schneider

\$87,290

Original Proposal, February 5, 2025

Unit	Qty	Unit Cost	Total Cost
Structural Steel			\$87,290
Base Bid Total			\$87,290

Howard Structural Steel, Inc.

Submitted by Patrick Wilding

\$90,166

Original Proposal, February 5, 2025

Unit	Qty	Unit Cost	Total Cost
Structural Steel			\$90,166
Base Bid Total			\$90,166

Bach Ornamental & Structural Steel

Submitted by Neil Raynor

\$122,000

Original Proposal, February 5, 2025

Unit	Qty	Unit Cost	Total Cost
Structural Steel			\$122,000
Base Bid Total			\$122,000

24-2946: East Lansing Schools - New Administration Building - Bid Package #1

Prepared by Clark Construction Company - 3535 Moores River Dr., Lansing, MI 48911, USA
 Bid Package Lead: Joseph Lorens (jlorens@clarkco.com)
 Project Location: 509 Barnhart Drive, East Lansing, MI 48823, United States of America

BC-06: Structural Metal Studs and Drywall & Acoustical Ceilings
 Prepared by: February 14, 2025

Base Bid
\$849,709

Estimated Cost
\$766,406

LINE ITEMS
 Structural Metal Studs and Drywall & Acoustical Ceilings

Unit	Qty	Unit Cost	Total Cost
			\$849,709
Base Bid Total			\$849,709

COMBINED BIDS
 *COMBINED Bids of two (2) or more Bid Categories may be submitted. Separate Bids for each Bid Category included in a combined Bid are required.

Bid Category Numbers	NO
N/A	
N/A	
For the Lump Sum Base Bid of	\$0

ADDENDA
 Acknowledges receipt of the following Addenda and has included the cost thereof in the Lump Sum Base Bid

	YES
No. 1, dated 1/30/25	
No. 2, dated 1/31/25	
No. 3, dated N/A	
No. 4, dated N/A	
No. 5, dated N/A	
No. 6, dated N/A	

REJECTION OF BID
 Acknowledges the right of the Owner to accept or reject any or all Bids, in whole or in part and to waive any informality or irregularity in the Bid, or to award the Contract to other than the low Bidder in its sole and absolute discretion.

	YES

ALTERNATE ACKNOWLEDGMENTS (LISTED IN EACH INDIVIDUAL BID PACKAGE)
 *Each Bidder must furnish alternate pricing for the Work of its respective Bid Category for the following alternates.

Alternates shall not be included in the Lump-Sum Base Bid.	YES
Alternate price shall include all costs for labor, material, equipment, service, overhead, and profit including any bonds and taxes as required in the Bid Documents to complete the Work of the Bid Category.	YES
Alternate No. A-1 Pergola in the Courtyard	\$0
Alternate No. A-2 Courtyard Bullfinch Countertop	\$0
Alternate No. C-1 Sanitary Lateral Sewer Tap	\$0
Alternate No. C-2 Rolled Concrete Curb	\$0

Summary

Christman Constructors, Inc.
 Prepared by: Robert Flanagan

Base Bid
\$922,000

Original Proposal, February 5, 2025

Unit	Qty	Unit Cost	Total Cost
			\$922,000
Base Bid Total			\$922,000

COMBINED BIDS
 *COMBINED Bids of two (2) or more Bid Categories may be submitted. Separate Bids for each Bid Category included in a combined Bid are required.

Bid Category Numbers	NO
N/A	
N/A	
For the Lump Sum Base Bid of	\$0

ADDENDA
 Acknowledges receipt of the following Addenda and has included the cost thereof in the Lump Sum Base Bid

	YES
No. 1, dated 1/30/25	YES
No. 2, dated 1/31/25	
No. 3, dated N/A	
No. 4, dated N/A	
No. 5, dated N/A	
No. 6, dated N/A	

REJECTION OF BID
 Acknowledges the right of the Owner to accept or reject any or all Bids, in whole or in part and to waive any informality or irregularity in the Bid, or to award the Contract to other than the low Bidder in its sole and absolute discretion.

	YES
	YES

ALTERNATE ACKNOWLEDGMENTS (LISTED IN EACH INDIVIDUAL BID PACKAGE)
 *Each Bidder must furnish alternate pricing for the Work of its respective Bid Category for the following alternates.

Alternates shall not be included in the Lump-Sum Base Bid.	YES
Alternate price shall include all costs for labor, material, equipment, service, overhead, and profit including any bonds and taxes as required in the Bid Documents to complete the Work of the Bid Category.	YES
Alternate No. A-1 Pergola in the Courtyard	\$0
Alternate No. A-2 Courtyard Bullfinch Countertop	\$0
Alternate No. C-1 Sanitary Lateral Sewer Tap	\$0
Alternate No. C-2 Rolled Concrete Curb	\$0

Summary

No allowances figured Shop drawings will not happen in 3 weeks as requested

William Reichenbach Company
 Prepared by: David Spahr

Base Bid
\$1,009,000

Original Proposal, February 5, 2025

Unit	Qty	Unit Cost	Total Cost
			\$1,009,000
Base Bid Total			\$1,009,000

COMBINED BIDS
 *COMBINED Bids of two (2) or more Bid Categories may be submitted. Separate Bids for each Bid Category included in a combined Bid are required.

Bid Category Numbers	YES
N/A	
N/A	
For the Lump Sum Base Bid of	\$0

ADDENDA
 Acknowledges receipt of the following Addenda and has included the cost thereof in the Lump Sum Base Bid

	YES
No. 1, dated 1/30/25	YES
No. 2, dated 1/31/25	
No. 3, dated N/A	
No. 4, dated N/A	
No. 5, dated N/A	
No. 6, dated N/A	

REJECTION OF BID
 Acknowledges the right of the Owner to accept or reject any or all Bids, in whole or in part and to waive any informality or irregularity in the Bid, or to award the Contract to other than the low Bidder in its sole and absolute discretion.

	YES
	YES

ALTERNATE ACKNOWLEDGMENTS (LISTED IN EACH INDIVIDUAL BID PACKAGE)
 *Each Bidder must furnish alternate pricing for the Work of its respective Bid Category for the following alternates.

Alternates shall not be included in the Lump-Sum Base Bid.	YES
Alternate price shall include all costs for labor, material, equipment, service, overhead, and profit including any bonds and taxes as required in the Bid Documents to complete the Work of the Bid Category.	YES
Alternate No. A-1 Pergola in the Courtyard	\$0
Alternate No. A-2 Courtyard Bullfinch Countertop	\$0
Alternate No. C-1 Sanitary Lateral Sewer Tap	\$0
Alternate No. C-2 Rolled Concrete Curb	\$0

Summary

We did not see any allowances required in section 12100 of the spec book or in our work category, therefore checked no on those items

DSI Acoustical Company
 Prepared by: Tom Holakow-Franco

Base Bid
\$1,095,000

Original Proposal, February 5, 2025

Unit	Qty	Unit Cost	Total Cost
			\$1,095,000
Base Bid Total			\$1,095,000

COMBINED BIDS
 *COMBINED Bids of two (2) or more Bid Categories may be submitted. Separate Bids for each Bid Category included in a combined Bid are required.

Bid Category Numbers	NO
N/A	
N/A	
For the Lump Sum Base Bid of	\$0

ADDENDA
 Acknowledges receipt of the following Addenda and has included the cost thereof in the Lump Sum Base Bid

	YES
No. 1, dated 1/30/25	YES
No. 2, dated 1/31/25	
No. 3, dated N/A	
No. 4, dated N/A	
No. 5, dated N/A	
No. 6, dated N/A	

REJECTION OF BID
 Acknowledges the right of the Owner to accept or reject any or all Bids, in whole or in part and to waive any informality or irregularity in the Bid, or to award the Contract to other than the low Bidder in its sole and absolute discretion.

	YES
	YES

ALTERNATE ACKNOWLEDGMENTS (LISTED IN EACH INDIVIDUAL BID PACKAGE)
 *Each Bidder must furnish alternate pricing for the Work of its respective Bid Category for the following alternates.

Alternates shall not be included in the Lump-Sum Base Bid.	YES
Alternate price shall include all costs for labor, material, equipment, service, overhead, and profit including any bonds and taxes as required in the Bid Documents to complete the Work of the Bid Category.	YES
Alternate No. A-1 Pergola in the Courtyard	\$0
Alternate No. A-2 Courtyard Bullfinch Countertop	\$0
Alternate No. C-1 Sanitary Lateral Sewer Tap	\$0
Alternate No. C-2 Rolled Concrete Curb	\$0

Summary

Voluntary alternates listed on bid packet

Grand River Interiors & Plaster LLC.
 Prepared by: Jim Raymond

Base Bid
\$1,315,174

Original Proposal, February 5, 2025

Unit	Qty	Unit Cost	Total Cost
			\$1,315,174
Base Bid Total			\$1,315,174

COMBINED BIDS
 *COMBINED Bids of two (2) or more Bid Categories may be submitted. Separate Bids for each Bid Category included in a combined Bid are required.

Bid Category Numbers	NO
N/A	
N/A	
For the Lump Sum Base Bid of	\$0

ADDENDA
 Acknowledges receipt of the following Addenda and has included the cost thereof in the Lump Sum Base Bid

	YES
No. 1, dated 1/30/2025	YES
No. 2, dated 1/31/2025	
No. 3, dated N/A	
No. 4, dated N/A	
No. 5, dated N/A	
No. 6, dated N/A	

REJECTION OF BID
 Acknowledges the right of the Owner to accept or reject any or all Bids, in whole or in part and to waive any informality or irregularity in the Bid, or to award the Contract to other than the low Bidder in its sole and absolute discretion.

	YES
	YES

ALTERNATE ACKNOWLEDGMENTS (LISTED IN EACH INDIVIDUAL BID PACKAGE)
 *Each Bidder must furnish alternate pricing for the Work of its respective Bid Category for the following alternates.

Alternates shall not be included in the Lump-Sum Base Bid.	YES
Alternate price shall include all costs for labor, material, equipment, service, overhead, and profit including any bonds and taxes as required in the Bid Documents to complete the Work of the Bid Category.	YES
Alternate No. A-1 Pergola in the Courtyard	\$0
Alternate No. A-2 Courtyard Bullfinch Countertop	\$0
Alternate No. C-1 Sanitary Lateral Sewer Tap	\$0
Alternate No. C-2 Rolled Concrete Curb	\$0

Summary

Voluntary alternates listed on bid packet

Integrity Interiors, Inc
 Prepared by: Jason Buggin

Base Bid
\$1,315,174

Original Proposal, February 5, 2025

Unit	Qty	Unit Cost	Total Cost
			\$1,315,174
Base Bid Total			\$1,315,174

COMBINED BIDS
 *COMBINED Bids of two (2) or more Bid Categories may be submitted. Separate Bids for each Bid Category included in a combined Bid are required.

Bid Category Numbers	NO
N/A	
N/A	
For the Lump Sum Base Bid of	\$0

ADDENDA
 Acknowledges receipt of the following Addenda and has included the cost thereof in the Lump Sum Base Bid

	YES
No. 1, dated 1/30/2025	YES
No. 2, dated 1/31/2025	
No. 3, dated N/A	
No. 4, dated N/A	
No. 5, dated N/A	
No. 6, dated N/A	

REJECTION OF BID
 Acknowledges the right of the Owner to accept or reject any or all Bids, in whole or in part and to waive any informality or irregularity in the Bid, or to award the Contract to other than the low Bidder in its sole and absolute discretion.

	YES
	YES

ALTERNATE ACKNOWLEDGMENTS (LISTED IN EACH INDIVIDUAL BID PACKAGE)
 *Each Bidder must furnish alternate pricing for the Work of its respective Bid Category for the following alternates.

Alternates shall not be included in the Lump-Sum Base Bid.	YES
Alternate price shall include all costs for labor, material, equipment, service, overhead, and profit including any bonds and taxes as required in the Bid Documents to complete the Work of the Bid Category.	YES
Alternate No. A-1 Pergola in the Courtyard	\$0
Alternate No. A-2 Courtyard Bullfinch Countertop	\$0
Alternate No. C-1 Sanitary Lateral Sewer Tap	\$0
Alternate No. C-2 Rolled Concrete Curb	\$0

Summary

Voluntary alternates listed on bid packet

24-2946: East Lansing Schools - New Administration Building - Bid Package #1

Prepared by Clark Construction Company - 3535 Moores River Dr, Lansing, MI 48911, USA

Bid Package Lead: Joseph Lorenz (jlorenz@clarkcoc.com)

Project Location: 509 Burcham Drive, East Lansing, MI 48823, United States of America

BC-07: General Trades, Rough & Finish Carpentry

Generated February 14, 2025

Base Bid

Estimated Cost

\$387,620

LINE ITEMS

General Trades, Rough & Finish Carpentry

Base Bid Total

COMBINED BIDS

Combined Bids of two (2) or more Bid Categories may be submitted. Separate Bids for each Bid Category included in a combined Bid are required.

Bid Category Numbers

Bid Category Descriptions

For the Lump Sum Base Bid of

ADDENDA

Acknowledges receipt of the following Addenda and has included the cost thereof in the Lump Sum Base Bid

No. 1, dated

No. 2, dated

No. 3, dated

No. 4, dated

No. 5, dated

No. 6, dated

REJECTION OF BID

Acknowledges the right of the Owner to accept or reject any or all Bids in whole or in part and to waive any informality or irregularity in the Bid, or to award the Contract to other than the low Bidder in its sole and absolute discretion.

ALTERNATE ACKNOWLEDGMENTS (LISTED IN EACH INDIVIDUAL BID PACKAGE)

Each Bidder must furnish alternate pricing for the Work of its respective Bid Category for the following alternates.

Alternates shall not be included in the Lump Sum Base Bid.

Alternate price shall include all costs for labor, material, equipment, service, overhead, and profit including any bonds and taxes as required in the Bid Documents to complete the Work of the Bid Category.

Alternate No. A-1 Pergola in the Courtyard

Alternate No. A-2 Courtyard Built-in Countertop

Alternate No. C-1 Sanitary Lateral Sewer Tap

Alternate No. C-2 Rolled Concrete Curb

Summary

Moore Trosper Construction Company

Submitted by Dana Walsh Ross

\$444,500

Original Proposal, February 5, 2025

Unit	Qty	Unit Cost	Total Cost
			\$444,500

Base Bid Total \$444,500

N/A

N/A

\$0

1/30/25

1/31/25

0

0

0

0

0

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

Clarification: 1. Allowance of \$6,000 used for AWP 5, and AWP 62. Alternate 1- Poligon PROTECTIVE COVERS (Pergola) figured with Western Red Cedar Smooth Sawn3. Alternate 2- exterior solid surface cannot be warranted, see voluntary alternate for cost to upgrade to exterior grade granite. Voluntary Alternates: 1. Deduct \$60,000 for use of custom casework in lieu of manufactured casework 2. Add \$1,700 to change exterior solid surface countertop in A1 2 to exterior grade granite

Trumble Group

Submitted by Jennifer Raymond

\$459,700

Original Proposal, February 5, 2025

Unit	Qty	Unit Cost	Total Cost
			\$459,700

Base Bid Total \$459,700

1/30/2025

1/31/2025

N/A

N/A

N/A

N/A

N/A

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

Clarification: 1. Allowance of \$6,000 used for AWP 5, and AWP 62. Alternate 1- Poligon PROTECTIVE COVERS (Pergola) figured with Western Red Cedar Smooth Sawn3. Alternate 2- exterior solid surface cannot be warranted, see voluntary alternate for cost to upgrade to exterior grade granite. Voluntary Alternates: 1. Deduct \$60,000 for use of custom casework in lieu of manufactured casework 2. Add \$1,700 to change exterior solid surface countertop in A1 2 to exterior grade granite

Christman Constructors, Inc.

Submitted by Matt Miller

\$483,700

Original Proposal, February 5, 2025

Unit	Qty	Unit Cost	Total Cost
			\$483,700

Base Bid Total \$483,700

1/30/2025

1/31/2025

N/A

N/A

N/A

N/A

N/A

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

Please see clarifications sheet for Alternate A-1 Add Cost for Concrete and Excavation work. Voluntary alternate for plastic laminate casework.

Graham Construction

Submitted by Dylan Butlerworth

\$547,700

Original Proposal, February 5, 2025

Unit	Qty	Unit Cost	Total Cost
			\$547,700

Base Bid Total \$547,700

1/30/25

1/31/25

n/a

n/a

n/a

n/a

n/a

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

Please see clarifications sheet for Alternate A-1 Add Cost for Concrete and Excavation work. Voluntary alternate for plastic laminate casework.

24-2946: East Lansing Schools - New Administration Building - Bid Package #1

Prepared by Clark Construction Company - 3535 Moores River Dr, Lansing, MI 48911, USA

Bid Package Lead: Joseph Lorenz (jlorenz@clarkcc.com)

Project Location: 509 Burcham Drive, East Lansing, MI 48823, United States of America

BC-08: Roofing

Generated February 14, 2025

Base Bid

Estimated Cost

\$127,432

LINE ITEMS

Roofing

Base Bid Total

COMBINED BIDS

Combined Bids of two (2) or more Bid Categories may be submitted. Separate Bids for each Bid Category included in a combined Bid are required.

Bid Category Numbers

Bid Category Descriptions

For the Lump Sum Base Bid of

ADDENDA

Acknowledges receipt of the following Addenda and has included the cost thereof in the Lump Sum Base Bid

No. 1, dated

No. 2, dated

No. 3, dated

No. 4, dated

No. 5, dated

No. 6, dated

REJECTION OF BID

Acknowledges the right of the Owner to accept or reject any or all Bids in whole or in part and to waive any informality or irregularity in the Bid, or to award the Contract to other than the low Bidder in its sole and absolute discretion.

ALTERNATE ACKNOWLEDGMENTS (LISTED IN EACH INDIVIDUAL BID PACKAGE)

Each Bidder must furnish alternate pricing for the Work of its respective Bid Category for the following alternates.

Alternates shall not be included in the Lump Sum Base Bid.

Alternate price shall include all costs for labor, material, equipment, service, overhead, and profit including any bonds and taxes as required in the Bid Documents to complete the Work of the Bid Category.

Alternate No. A-1 Pergola in the Courtyard

Alternate No. A-2 Courtyard Built-in Countertop

Alternate No. C-1 Sanitary Lateral Sewer Tap

Alternate No. C-2 Rolled Concrete Curb

Summary

Roofing Innovations, LLC

Submitted by Dennis Wilcox

\$138,455

Revision #1, February 5, 2025

Unit	Qty	Unit Cost	Total Cost
			\$138,455
			\$138,455

YES

NA

NA

YES

1/30/2025

1/31/2025

NA

NA

NA

NA

YES

YES

YES

YES

\$0

\$0

\$0

\$0

Submitted an incorrect form. Correct ones have been uploaded.

24-2946: East Lansing Schools - New Administration Building - Bid Package #1

Prepared by Clark Construction Company - 3535 Moores River Dr., Lansing, MI 48911, USA
 Bid Package Lead: Joseph Lopez (jlopez@clarkco.com)
 Project Location: 509 Burnham Drive, East Lansing, MI 48823, United States of America

BC-09: Glass & Glazing, Entrances and Storefronts, Windows, Curtain Wall
 Issued: February 14, 2025

Base Bid
 Estimated Cost
\$219,236

LINE ITEMS	Unit	Qty	Unit Cost	Total Cost
Glazing, Entrances and Storefronts, Windows, Curtain Wall				\$119,000
Base Bid Total				\$119,000

COMBINED BIDS
 *COMBINED BIDS of two (2) or more Bid Categories may be submitted. Separate Bids for each Bid Category included in a combined Bid are required.
 Bid Category Numbers
 Bid Category Descriptions
 For the Lump Sum Base Bid of

ADDENDA

Acknowledges receipt of Bid following Addenda and has included the cost thereof in the Lump Sum Base Bid	YES
No. 1, dated 1/30/25	YES
No. 2, dated 1/31/25	
No. 3, dated N/A	
No. 4, dated N/A	
No. 5, dated N/A	
No. 6, dated N/A	

REJECTION OF BID
 Acknowledges the right of the Owner to accept or reject any or all Bids in whole or in part and to waive any informality or irregularity in the Bid, or to award the Contract to other than the low Bidder in its sole and absolute discretion.

ALTERNATE ACKNOWLEDGMENTS (LISTED IN EACH INDIVIDUAL BID PACKAGE)
 *BIDDER MUST FURNISH ALTERNATE PRICING FOR THE WORK OF ITS RESPECTIVE BID CATEGORY FOR THE FOLLOWING ALTERNATES:
 Alternates shall not be included in the Lump Sum Base Bid.
 Alternate price shall include all costs for labor, material, equipment, service, overhead, and profit including any bonds and taxes as required in the Bid Documents to complete the Work of the Bid Category.

Alternate No. A-1 Pergola in the Courtyard	YES	\$0
Alternate No. A-2 Courtyard Built-in Countertop		\$0
Alternate No. C-1 Sanitary Lateral Sewer Tap		\$0
Alternate No. C-2 Rolled Concrete Curb		\$0

Summary

Vos Glass Submitted by: rhan humphries				
\$119,000				
Original Proposal, February 5, 2025				
Unit	Qty	Unit Cost	Total Cost	
				\$119,000
				\$119,000

Lansing Glass Company Submitted by: Bill Gorman				
\$145,929				
Original Proposal, February 5, 2025				
Unit	Qty	Unit Cost	Total Cost	
				\$145,929
				\$145,929

Glazing Solutions, Inc. Submitted by: Bill Gorman				
\$155,750				
Original Proposal, February 5, 2025				
Unit	Qty	Unit Cost	Total Cost	
				\$155,750
				\$155,750

Aaron Glass Company Submitted by: Bill Gorman				
\$174,400				
Original Proposal, February 5, 2025				
Unit	Qty	Unit Cost	Total Cost	
				\$174,400
				\$174,400

SKYLINE GLASS LLC Submitted by: Eric Bostrom				
\$177,800				
Original Proposal, February 5, 2025				
Unit	Qty	Unit Cost	Total Cost	
				\$177,800
				\$177,800

24-2946: East Lansing Schools - New Administration Building - Bid Package #1

Prepared by Clark Construction Company - 3535 Moores River Dr, Lansing, MI 48911, USA

Bid Package Lead: Joseph Lorenz (jlorenz@clarkcc.com)

Project Location: 509 Burcham Drive, East Lansing, MI 48823, United States of America

BC-10: Composite Wall Panels & Siding

Generated February 14, 2025

Base Bid

Estimated Cost
\$133,997

LINE ITEMS

Composite Wall Panels & Siding

Base Bid Total

COMBINED BIDS

Combined Bids of two (2) or more Bid Categories may be submitted. Separate Bids for each Bid Category included in a combined Bid are required.

Bid Category Numbers

Bid Category Descriptions

For the Lump Sum Base Bid of

ADDENDA

Acknowledges receipt of the following Addenda and has included the cost thereof in the Lump Sum Base Bid

No. 1, dated

No. 2, dated

No. 3, dated

No. 4, dated

No. 5, dated

No. 6, dated

REJECTION OF BID

Acknowledges the right of the Owner to accept or reject any or all Bids in whole or in part and to waive any informality or irregularity in the Bid, or to award the Contract to other than the low Bidder in its sole and absolute discretion.

ALTERNATE ACKNOWLEDGMENTS (LISTED IN EACH INDIVIDUAL BID PACKAGE)

Each Bidder must furnish alternate pricing for the Work of its respective Bid Category for the following alternates.

Alternates shall not be included in the Lump Sum Base Bid.

Alternate price shall include all costs for labor, material, equipment, service, overhead, and profit including any bonds and taxes as required in the Bid Documents to complete the Work of the Bid Category.

Alternate No. A-1 Pergola in the Courtyard

Alternate No. A-2 Courtyard Built-in Countertop

Alternate No. C-1 Sanitary Lateral Sewer Tap

Alternate No. C-2 Rolled Concrete Curb

Summary

Weatherwise Foam

Submitted by Ryan McCormick

\$128,850

Original Proposal, February 5, 2025

Unit	Qty	Unit Cost	Total Cost
			\$128,850
Base Bid Total			\$128,850

10

Siding Facia and soffit. Stone not included

\$128,850

YES

YES

yes

yes

no

no

no

no

YES

YES

YES

YES

\$0

\$0

\$0

\$0

Slater solutions

Submitted by Don Slater

\$137,695

Original Proposal, February 5, 2025

Unit	Qty	Unit Cost	Total Cost
			\$137,695
Base Bid Total			\$137,695

NO

YES

1/31/2025

1/31/2025

1/31/2025

1/31/2025

1/31/2025

1/31/2025

YES

YES

YES

YES

\$0

\$0

\$0

\$0

Graham Construction

Submitted by Dylan Butterworth

\$248,400

Original Proposal, February 5, 2025

Unit	Qty	Unit Cost	Total Cost
			\$248,400
Base Bid Total			\$248,400

NO

YES

1/30/25

1/31/25

n/a

n/a

n/a

n/a

YES

YES

YES

YES

\$0

\$0

\$0

\$0

24-2946: East Lansing Schools - New Administration Building - Bid Package #1

Prepared by Clark Construction Company - 3535 Moores River Dr, Lansing, MI 48911, USA

Bid Package Lead: Joseph Lorenz (jlorenz@clarkcc.com)

Project Location: 509 Burcham Drive, East Lansing, MI 48823, United States of America

BC-11: Flooring, Carpet, Vinyl, Hard Tile

Generated February 14, 2025

Base Bid

Estimated Cost
\$101,910

LINE ITEMS

Flooring, Carpet, Vinyl, Hard Tile

Base Bid Total

COMBINED BIDS

Combined Bids of two (2) or more Bid Categories may be submitted. Separate Bids for each Bid Category included in a combined Bid are required.

Bid Category Numbers

Bid Category Descriptions

For the Lump Sum Base Bid of

ADDENDA

Acknowledges receipt of the following Addenda and has included the cost thereof in the Lump Sum Base Bid

No. 1, dated

No. 2, dated

No. 3, dated

No. 4, dated

No. 5, dated

No. 6, dated

REJECTION OF BID

Acknowledges the right of the Owner to accept or reject any or all Bids in whole or in part and to waive any informality or irregularity in the Bid, or to award the Contract to other than the low Bidder in its sole and absolute discretion.

ALTERNATE ACKNOWLEDGMENTS (LISTED IN EACH INDIVIDUAL BID PACKAGE)

Each Bidder must furnish alternate pricing for the Work of its respective Bid Category for the following alternates.

Alternates shall not be included in the Lump Sum Base Bid.

Alternate price shall include all costs for labor, material, equipment, service, overhead, and profit including any bonds and taxes as required in the Bid Documents to complete the Work of the Bid Category.

Alternate No. A-1 Pergola in the Courtyard

Alternate No. A-2 Courtyard Built-in Countertop

Alternate No. C-1 Sanitary Lateral Sewer Tap

Alternate No. C-2 Rolled Concrete Curb

Summary

William Reichenbach Company

Submitted by Gerald Rutkowski

\$78,210

Original Proposal, February 5, 2025

Unit	Qty	Unit Cost	Total Cost
			\$78,210
Base Bid Total			\$78,210

NO

1-30-25

1-31-25

0

0

0

0

YES

YES

YES

YES

\$0

\$0

\$0

\$0

\$0

Did not find any allowance to carry.

Lansing Tile & Mosaic, Inc.

Submitted by nick dlizel

\$81,461

Original Proposal, February 4, 2025

Unit	Qty	Unit Cost	Total Cost
			\$81,461
Base Bid Total			\$81,461

NO

1/30

1/31

0

0

0

0

YES

YES

YES

YES

\$0

\$0

\$0

\$0

\$0

Superior Floor Coverings LLC

Submitted by Buck Patrick

\$93,629

Original Proposal, February 5, 2025

Unit	Qty	Unit Cost	Total Cost
			\$93,629
Base Bid Total			\$93,629

YES

01-30

01-31

N/A

N/A

N/A

N/A

YES

YES

YES

YES

\$0

\$0

\$0

\$0

\$0

24-2946: East Lansing Schools - New Administration Building - Bid Package #1

Prepared by Clark Construction Company - 3535 Moores River Dr, Lansing, MI 48911, USA

Bid Package Lead: Joseph Lorenz (jlorenz@clarkcoc.com)

Project Location: 509 Burcham Drive, East Lansing, MI 48823, United States of America

BC-16: Asphalt Paving

Generated February 14, 2025

Base Bid

Estimated Cost

\$52,762

LINE ITEMS

Asphalt Paving

\$44,300

Base Bid Total

\$44,300

COMBINED BIDS

Combined Bids of two (2) or more Bid Categories may be submitted. Separate Bids for each Bid Category included in a combined Bid are required.

Bid Category Numbers

Bid Category Descriptions

For the Lump Sum Base Bid of

NO

ADDENDA

Acknowledges receipt of the following Addenda and has included the cost thereof in the Lump Sum Base Bid

No. 1, dated

1-30-25

YES

No. 2, dated

1-31-25

No. 3, dated

N/A

No. 4, dated

N/A

No. 5, dated

N/A

No. 6, dated

N/A

REJECTION OF BID

Acknowledges the right of the Owner to accept or reject any or all Bids in whole or in part and to waive any informality or irregularity in the Bid, or to award the Contract to other than the low Bidder in its sole and absolute discretion.

YES

YES

YES

YES

ALTERNATE ACKNOWLEDGMENTS (LISTED IN EACH INDIVIDUAL BID PACKAGE)

Each Bidder must furnish alternate pricing for the Work of its respective Bid Category for the following alternates.

Alternates shall not be included in the Lump Sum Base Bid.

Alternate price shall include all costs for labor, material, equipment, service, overhead, and profit including any bonds and taxes as required in the Bid Documents to complete the Work of the Bid Category.

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

Alternate No. A-1 Pergola in the Courtyard

\$0

Alternate No. A-2 Courtyard Built-in Countertop

\$0

Alternate No. C-1 Sanitary Lateral Sewer Tap

\$1,950

Alternate No. C-2 Rolled Concrete Curb

ACCEPTED

-\$2,500

\$3,500

\$0

\$1,200

\$0

\$4,950

-\$1,000

Summary

Michigan Paving And Materials, Inc.

Submitted by Tom Starck

\$45,650

Original Proposal, February 5, 2025

Unit	Qty	Unit Cost	Total Cost
			\$45,650
			\$45,650

\$45,650

COMBINED BIDS

Combined Bids of two (2) or more Bid Categories may be submitted. Separate Bids for each Bid Category included in a combined Bid are required.

Bid Category Numbers

Bid Category Descriptions

For the Lump Sum Base Bid of

NO

ADDENDA

Acknowledges receipt of the following Addenda and has included the cost thereof in the Lump Sum Base Bid

No. 1, dated

1/30/25

YES

No. 2, dated

1/31/25

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

See MPM addendum attached pertaining to Contract Acknowledgement MPM is non-signatory to O.

McKearney Asphalt & Sealing Inc

Submitted by Lance Anderson

\$45,895

Original Proposal, February 5, 2025

Unit	Qty	Unit Cost	Total Cost
			\$45,895
			\$45,895

\$45,895

COMBINED BIDS

Combined Bids of two (2) or more Bid Categories may be submitted. Separate Bids for each Bid Category included in a combined Bid are required.

Bid Category Numbers

Bid Category Descriptions

For the Lump Sum Base Bid of

NO

ADDENDA

Acknowledges receipt of the following Addenda and has included the cost thereof in the Lump Sum Base Bid

No. 1, dated

1/30/2025

YES

No. 2, dated

1/31/2025

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

American Asphalt Inc.

Submitted by Byron Walsh

\$47,620

Original Proposal, February 5, 2025

Unit	Qty	Unit Cost	Total Cost
			\$47,620
			\$47,620

\$47,620

COMBINED BIDS

Combined Bids of two (2) or more Bid Categories may be submitted. Separate Bids for each Bid Category included in a combined Bid are required.

Bid Category Numbers

Bid Category Descriptions

For the Lump Sum Base Bid of

NO

ADDENDA

Acknowledges receipt of the following Addenda and has included the cost thereof in the Lump Sum Base Bid

No. 1, dated

January 30, 2025

YES

No. 2, dated

January 31, 2025

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

24-2946: East Lansing Schools - New Administration Building - Bid Package #1

Prepared by Clark Construction Company - 3535 Moores River Dr, Lansing, MI 48911, USA

Bid Package Lead: Joseph Lorenz (jlorenz@clarkcc.com)

Project Location: 509 Burcham Drive, East Lansing, MI 48823, United States of America

BC-17: Commissioning

Generated February 14, 2025

Base Bid

LINE ITEMS

Unit	Qty	Unit Cost	Total Cost
Commissioning			\$13,275

Base Bid Total			\$13,275
-----------------------	--	--	-----------------

COMBINED BIDS

Combined Bids of two (2) or more Bid Categories may be submitted. Separate Bids for each Bid Category included in a combined Bid are required.

Bid Category Numbers	Bid Category Descriptions	For the Lump Sum Base Bid of
17	Commissioning	\$13,275

ADDENDA

Acknowledges receipt of the following Addenda and has included the cost thereof in the Lump Sum Base Bid

No.	Description	YES
No. 1, dated	1/30/2025	
No. 2, dated	1/31/2025	
No. 3, dated	NA	
No. 4, dated	NA	
No. 5, dated	NA	
No. 6, dated	NA	

REJECTION OF BID

Acknowledges the right of the Owner to accept or reject any or all Bids in whole or in part and to waive any informality or irregularity in the Bid, or to award the Contract to other than the low Bidder in its sole and absolute discretion.

	YES
--	-----

ALTERNATE ACKNOWLEDGMENTS (LISTED IN EACH INDIVIDUAL BID PACKAGE)

Each Bidder must furnish alternate pricing for the Work of its respective Bid Category for the following alternates.

Alternates shall not be included in the Lump Sum Base Bid.

Alternate price shall include all costs for labor, material, equipment, service, overhead, and profit including any bonds and taxes as required in the Bid Documents to complete the Work of the Bid Category.

Alternate No.	Description	Unit Cost	Total Cost
Alternate No. A-1	Pergola in the Courtyard		\$0
Alternate No. A-2	Courtyard Built-in Countertop		\$0
Alternate No. C-1	Sanitary Lateral Sewer Tap		\$0
Alternate No. C-2	Rolled Concrete Curb		\$0

Summary

Pro-MEC Engineering Services

Submitted by Nick Kramp

\$13,275

Original Proposal, February 5, 2025

Unit	Qty	Unit Cost	Total Cost
			\$13,275

Base Bid Total			\$13,275
-----------------------	--	--	-----------------

17	Commissioning	For the Lump Sum Base Bid of
		\$13,275

No.	Description	YES
1/30/2025		
1/31/2025		
NA		
NA		
NA		
NA		

	YES
--	-----

Alternates shall not be included in the Lump Sum Base Bid.

Alternate price shall include all costs for labor, material, equipment, service, overhead, and profit including any bonds and taxes as required in the Bid Documents to complete the Work of the Bid Category.

Alternate No. A-1 Pergola in the Courtyard

Alternate No.	Description	Unit Cost	Total Cost
Alternate No. A-1	Pergola in the Courtyard		\$0
Alternate No. A-2	Courtyard Built-in Countertop		\$0
Alternate No. C-1	Sanitary Lateral Sewer Tap		\$0
Alternate No. C-2	Rolled Concrete Curb		\$0

1. 50% inspection/verification of delivered equipment included in the mechanical schedules. 100% for AHU's, pumps, boilers and other major equipment. 2. Attendance & Participation in Pre-installation meetings/construction progress meetings

Control Solutions Inc

Submitted by Derek Strong

\$15,000

Original Proposal, February 5, 2025

Unit	Qty	Unit Cost	Total Cost
			\$15,000

Base Bid Total			\$15,000
-----------------------	--	--	-----------------

NA	Commissioning	For the Lump Sum Base Bid of
		\$15,000

No.	Description	YES
1/30/2025		
1/31/2025		
NA		
NA		
NA		
NA		

	YES
--	-----

Alternates shall not be included in the Lump Sum Base Bid.

Alternate price shall include all costs for labor, material, equipment, service, overhead, and profit including any bonds and taxes as required in the Bid Documents to complete the Work of the Bid Category.

Alternate No. A-1 Pergola in the Courtyard

Alternate No.	Description	Unit Cost	Total Cost
Alternate No. A-1	Pergola in the Courtyard		\$0
Alternate No. A-2	Courtyard Built-in Countertop		\$0
Alternate No. C-1	Sanitary Lateral Sewer Tap		\$0
Alternate No. C-2	Rolled Concrete Curb		\$0

FST-HEA, LLC

Submitted by Kathleen Favale

\$22,678

Original Proposal, February 5, 2025

Unit	Qty	Unit Cost	Total Cost
			\$22,678

Base Bid Total			\$22,678
-----------------------	--	--	-----------------

NO	Commissioning	For the Lump Sum Base Bid of
		\$22,678

No.	Description	YES
1/30/25		
1/31/25		
N/A		
N/A		
N/A		
N/A		

	YES
--	-----

Alternates shall not be included in the Lump Sum Base Bid.

Alternate price shall include all costs for labor, material, equipment, service, overhead, and profit including any bonds and taxes as required in the Bid Documents to complete the Work of the Bid Category.

Alternate No. A-1 Pergola in the Courtyard

Alternate No.	Description	Unit Cost	Total Cost
Alternate No. A-1	Pergola in the Courtyard		\$0
Alternate No. A-2	Courtyard Built-in Countertop		\$0
Alternate No. C-1	Sanitary Lateral Sewer Tap		\$0
Alternate No. C-2	Rolled Concrete Curb		\$0

Good morning, On behalf of FST-HEA, LLC (FST) we are pleased to submit our attached proposal, as well as, Bid Form, to provide commissioning services for the East Lansing Public Schools 2024 Bond Program – Towar Avenue, New Administration Building project. If you have any questions or concerns, please don't hesitate to contact us. We look forward to hearing from you. Have a nice day!

24-2946: East Lansing Schools - New Administration Building - Bid Package #1

Prepared by Clark Construction Company - 3535 Moores River Dr, Lansing, MI 48911, USA

Bid Package Lead: Joseph Lorenz (jlorenz@clarkcc.com)

Project Location: 509 Burcham Drive, East Lansing, MI 48823, United States of America

BC-18: Material Quality Testing & Inspections

Generated February 14, 2025

Base Bid

LINE ITEMS

Material Quality Testing & Inspections

Base Bid Total

COMBINED BIDS

Combined Bids of two (2) or more Bid Categories may be submitted. Separate Bids for each Bid Category included in a combined Bid are required.

Bid Category Numbers
Bid Category Descriptions
For the Lump Sum Base Bid of

ADDENDA

Acknowledges receipt of the following Addenda and has included the cost thereof in the Lump Sum Base Bid

No. 1, dated
No. 2, dated
No. 3, dated
No. 4, dated
No. 5, dated
No. 6, dated

REJECTION OF BID

Acknowledges the right of the Owner to accept or reject any or all Bids in whole or in part and to waive any informality or irregularity in the Bid, or to award the Contract to other than the low Bidder in its sole and absolute discretion.

ALTERNATE ACKNOWLEDGMENTS (LISTED IN EACH INDIVIDUAL BID PACKAGE)

Each Bidder must furnish alternate pricing for the Work of its respective Bid Category for the following alternates.

Alternates shall not be included in the Lump Sum Base Bid.

Alternate price shall include all costs for labor, material, equipment, service, overhead, and profit including any bonds and taxes as required in the Bid Documents to complete the Work of the Bid Category.

Alternate No. A-1 Pergola in the Courtyard
Alternate No. A-2 Courtyard Built-in Countertop
Alternate No. C-1 Sanitary Lateral Sewer Tap
Alternate No. C-2 Rolled Concrete Curb

Summary

Intertek-ATI-PSI

Submitted by Joel Waller

\$14,975

Original Proposal, February 5, 2025

Unit	Qty	Unit Cost	Total Cost
			\$14,975
Base Bid Total			\$14,975

YES

N/A

N/A

YES

January 30, 2025

January 31, 2025

N/A

N/A

N/A

N/A

YES

YES

YES

YES

\$0

\$0

\$0

\$0

PSI's proposal to provide material quality testing and inspection services is attached. Thank you for the opportunity to propose our services. If you have any questions regarding the proposal or need additional information, please let us know.

Materials Testing Consultants

Submitted by Jeremy Duval

\$19,800

Original Proposal, February 5, 2025

Unit	Qty	Unit Cost	Total Cost
			\$19,800
Base Bid Total			\$19,800

NO

18

Material Quality Testing & Inspection

\$19,800

YES

January 30, 2025

January 31, 2025

N/A

N/A

N/A

N/A

YES

YES

YES

YES

\$2,100

\$0

\$2,700

\$0

MTC Proposal 19101 is attached, the proposal includes a comprehensive and detailed proposed scope of work for the sitework and building portions for your review and consideration. We also provided an "Optional Alternate" for the Asphalt Pavement in the Parking Lot for your review and considerations. We also provide alternate pricing for the Bid Alternates A-1 and C-1. Please note: The Bid Security and Performance and Labor and Material Bond have been checked as 'NO' as these do not apply to our professional services. Additionally, we checked 'NO' for the Allowances section, as these do not apply either. We appreciate the opportunity to submit on this project, we look forward to the opportunity to join and assist the East Lansing Public Schools and Clark Construction Company team! Please let me know if you should have any questions or if you should need anything additional. Thanks, Jeremy Duval/Materials Testing Consultants, Inc. (616) 914-2371

SME

Submitted by Dave Hurlburt

\$36,500

Original Proposal, February 4, 2025

Unit	Qty	Unit Cost	Total Cost
			\$36,500
Base Bid Total			\$36,500

NO

1/30

1/31

NA

NA

NA

NA

YES

NO

NO

NO

\$0

\$0

\$0

\$0

VIII. Closed Session

Motion; I move the Board of Education enter into closed session pursuant to Section 8(1)(k) of the Open Meetings Act to consider security planning to address the safety of the students and staff.

Roll Call Vote

IX. Committee Reports

- A. Academic and Technology Committee
- B. Facilities Committee
- C. Finance Committee
- D. Intergovernmental Relations
- E. Personnel Committee
- F. Policy Committee
- G. Ingham School Officers Association (ISOA)

X. Announcements

- A. The next regularly scheduled meeting of the Board of Education is April 14, 2025.

XI. Adjournment

Respectfully Submitted,

***Dori Leyko
Superintendent***