PLAINVILLE COMMUNITY SCHOOLS
INSPIRE PREPARE ENGAGE

PLAINVILLE PUBLIC SCHOOLS
Placing Students First

EDUCATIONAL SPECIFICATIONS

Plainville Middle School
150 Northwest Drive
Plainville, Connecticut 06062

PREPARED FOR:

Plainville Board of Education
One Central Square
Plainville, CT 06062

PREPARED BY:

Construction Solutions Group, LLC
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East Hartford, CT 06108
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Project Overview

In August of 2021 the Plainville Board of Education, in its effort to maintain a high level of student achievement, commissioned a facility study of the Plainville Middle School. The purpose of the study was to develop an assessment of the condition of the schools to determine the impact of the facilities conditions on the educational program currently in place. The firm selected was Constructions Solutions Group, (CSG) they, in turn, hired Antinozzi Associates to assist them with certain aspects of the study. The ensuing report was comprehensive resulting in a number of serious issues in need of attention. Consequently, CSG made numerous recommendations that has prompted the Board of Education to submit a grant application for the renovation of the Plainville Middle School with a "Renovate as New" middle school. These conditions are outlined in the project rationale section of the document.

These Educational Specifications were developed in collaboration with the Superintendent, Steven LePage and Plainville Middle School administration and staff. The following individuals participated in specific program meetings to provide input for these educational specifications:

Jemima Armistead - Family Consumer Science	Laura Meehan - Art
Carol Blair (main office)	Justine Misseri - SPED
Amanda Brown – SPED	David Moore - Science
Steve Busel – Facilities Director	Adam Murphy – Physical Education
Melinda Buthe - (7th-grade Social Studies Teacher)	Christina Piper - Science
Sandi Capodice - School Nurse	Aimee Roberts - Principal
Julianna Cobuzzi - Media/Library	Allison Rogers - (7th-grade Social Studies Teacher)
Ryan Cornelius - Assistant Principal	Dana Ross - (Office Guidance Dept.)
Kim Coyle - Tech Ed - communications - video production	Kevin Ross – Information Technology
Michele Fischer-Paul (Secretary to the assistant principal)	Colleen Ryder - (Principal Secretary)
Rich Garuti - Interim assistant principal	Amy Tennant – Physical Education
Denise Grodzicki – School Counselor	Shannon Thomas – School Counselor
Christine Harkey - SPED	Stephanie Turbett - Social Studies
Todd Helming – Music	Lori Vigue – Art
Emily Kyle -Social Studies	Camille Westfall - Wood Shop - Robotics
Steve LeSuer - (ISS and Student Support)	Charissa Zbikowski - SPED

Rationale for the Project

The Plainville Middle School building was built in 1992. The main structure is masonry and in good condition however, the infrastructure and most of the building's original components are in poor condition. In addition, a majority of the programmatic spaces are lacking in fundamental needs such as security, technology, power distribution and quality building controls that regulate temperature and air quality. The school administration decided to hire a consultant, CSG and Antinozzi Associates to investigate and document the condition of the facility. Much of the following information was verified through interviewing the staff and administration. The district contemplated making all of the repairs over the next 5-7 years but has determined that approach would be inefficient, expensive and highly disruptive to the educational program. Consequently, the recommendation of the consultant was for the district to apply for a school construction grant to renovate the building "as new". This grant will enable the district to address the following items;

- School safety is a major concern, the facility lacks an enclosed secure vestibule at the entry and has multiple entries throughout the building.
- The current average classroom size is approximately 650 square feet. Today's educational practices with enhanced technology and an average classroom student occupancy of 24 students recommends a minimum of 750 square feet. Educational opportunities are marginalized due to small classroom size.
- Existing mechanical equipment exceeds its useful service life and needs to be replaced. The existing equipment is limited in its ability to regulate comfortable room temperatures and air quality.
- Building controls are outdated and need replacing. It is challenging, if not impossible, to interface new building controls with older mechanical equipment. Costs for installing building systems upgrades and equipment increases annually due to the aging infrastructure.
- A new HVAC system with new controls will improve both comfort and health by addressing air quality.
- The basic electrical and plumbing systems infrastructure is original and needs replacing and upgrading.
- The roof is a combination of built-up modified bitumen and standing seam metal. All areas are in excess of twenty (20) years old and eligible for replacement.

In evaluating the problems noted above, it became apparent that a major renovation is needed to remedy all of the deficiencies outlined. Therefore, the Board of Education is recommending that a complete renovation of the existing school is necessary to meet the educational needs of the district.

Long Range Educational Plan

Renovating the Plainville Middle School will enable the district to achieve their long-range goals, such as:

- Create a STEAM program at the middle school that will incorporate the already established technical education programs offered and integrate key concepts into the Science, Math, and Arts programs at the school.

- Ensure that the school is able to accommodate a 554-student enrollment capacity.
- Ensure a safe and secure environment for students and faculty to be able to focus on teaching and learning.
- Create a secure entryway, camera system and PA system with adequate functions for students with special needs.
- Provide new plumbing, heating, and cooling central systems to improve indoor air quality and allow the school to function year-round.
- Allow for space for all staff and educators to meet and collaborate.
- Improve the educational spaces with access to daylight, technology in existing classrooms, media and other classroom settings.
- Create a new educational media center / learning common.
- Provide new electrical systems infrastructure to allow for technology in all instructional spaces.
- Install a new roof structure for long term (20-year minimum), weather tight envelope as well the potential for PV, wind, and other energy conservation measures.
- To create spaces that facilitate and encourage cross-discipline learning. Allow faculty and staff the physical space to implement programs to engage, prepare and inspire our students as well as support the Vision of the Plainville Graduate: Collaborative, Communicative, Innovative, Mindful and Resilient.
- Integrate Equity, Social and Emotional Learning and Mastery across all curricular areas.
- Improve educational spaces to better support the implementation of new curriculum and a vibrant SRBI (Scientifically Research Based Intervention) program in reading and math.
- Offer students the opportunity to explore vibrant and varied unified arts offerings: art, music, family and consumer science, technology education, robotics, engineering.
- Continue to offer students voice and choice in their education as well as creating pathways to college and career for all students.

Mission and Vision

The Plainville Middle School learning community's' mission is to inspire, prepare and engage all students by cultivating their intellectual curiosity, fostering a passion for lifelong learning while pursuing excellence in their academic, social and emotional growth. Our mission goals are:
- To teach students to be collaborative, work together, compromise, contribute and listen respectfully to achieve a common goal.
- To communicate effectively and exchange ideas by expressing thoughts clearly and engaging their audience.
- To be innovative, resourceful, open-minded and able to develop viable solutions in unique and creative ways to solve real-world problems.
- To be mindful and self-aware as they thoughtfully and purposely consider how their actions impact themselves, others and their community as a whole.
- To be resilient and to use challenges as opportunities for growth.

The Vision goals are threefold:
- First, to develop a student-centered curriculum with an emphasis on the mastery of power standards and essential skills that ensure students are college and career ready upon graduation.
- Secondly, provide teachers with regular collaboration time, relevant professional development and meaningful feedback to promote innovative teaching practices.
- Thirdly, ensure that systems for assessing and measuring learning targets provide data to improve teaching practices and student learning.

The actions needed to achieve the vision goals are as follows;
- Expand the STEM/STEAM and Makerspace opportunities across the district.
- Focus instructional rounds on School Improvement Plans
- Maximize use of instructional technology for engaging teaching and learning.

Learning / Educational Activities

Academic Goals
PCS Vision
Inspire-Prepare Engage
To Inspire and prepare lifelong learners to follow their passion, engage in their communities, and positively impact our global society.

The academic goals at the Middle School of Plainville are aligned with the CT Curriculum and Assessment Frameworks, and CT Curriculum Frameworks and Grade Level Expectations as outlined by Connecticut's State Department of Education.

STEAM Goals
The new middle school will have a focus on STEAM which will allow teaching and learning to focus on the integration of science, technology, math, and the arts. This will take place with each student and will allow teachers to collaborate in their planning and intentionally align the standards to better address the curriculum. Students will benefit by connecting all the content areas through STEAM.

Plainville Middle School currently has the capacity and the programming necessary to begin a vibrant STEAM program. They presently offer the students a comprehensive technical education program with labs that includes robotics, wood shop and video production. They also have a family consumer science class with a lab component as well. These programs and this space allow the middle school students to develop practical skills. They are able to understand the impact of systems and develop their problem-solving skills while working collaboratively with each other.

Mathematics Goals:
Our goal in Mathematics is to educate and inspire all students to become fluent in the application of math skills and concepts as needed to be a successful 21st century citizen. Our shift in curriculum and resources will allow all students to access grade level content and

apply these skills in very real examples. We encourage the use of blended strategies, team teaching, and technology integration as part of a balanced curriculum and instructional methods. Students struggling in math have the opportunity to work with our SRBI coordinator who facilitates small group work with 2 math tutors. It is important that our math classrooms be able to support small group/ partner work as well as the technology heavy resource that will be in place next year.

Literacy Goals:

The Middle School of Plainville English Language Arts department works to create an environment that promotes a lifetime love of literacy and differentiated instruction to meet the needs of all students. Teachers work with students to increase volume, engagement, and diversity by encouraging student choice vs. whole class novels and participation in book clubs. The Middle School of Plainville strives to develop flexible, resilient readers who read for pleasure as well as for academic purposes. Teachers work to teach students how to access a toolkit of strategies when experiencing reading difficulties. Students are "knowledgeable on a range of subjects from nonfiction reading and empathetic and nuanced in their interactions with others from their reading of literature". Students can "read broadly and deeply, alert to the intricacies of texts and to the power of language".

Social Studies Goals:

Our Social Studies units provide the opportunity for students to explore the world around them through research, inquiry and project-based learning. Instruction is hands-on and student-led which allows for learners to gain an understanding of the interaction between and among societies and cultures of the past and present world and apply concepts as a responsible citizen in a culturally, diverse interdependent world. Students have the opportunity to implement the strategies they learn through the ELA curriculum. The sixth grade focuses on ancient history. The seventh grade focuses primarily on government systems and comparative world politics. The eighth grade focuses primarily on United States history.

Science Goals:

Our approach to science incorporates hands-on instruction while exploring the thematic units of NGSS. The students of the Middle School of Plainville will become scientists as they engage in experiments and access technology to gain skills and apply concepts that support discovery. Staff is currently focusing on the application of Cross Cutting Concepts and the Science and Engineering Practices of NGSS while creating common assessments to better prepare our students for real world science problems and phenomena. Science will support STEM integration to provide our middle school learners with exposure to engineering.

Wellness Goals:

The Plainville Public Schools Middle School Physical Education/Health strives to educate and inspire all students on the importance of being physically active and acquiring healthy habits they can use throughout their lifetime. Middle School Physical Education standards and objectives are embedded into the curriculum specifically focusing on demonstrating competency in a variety of motor skills and movement patterns and applying movement concepts, principles, strategies, and tactics related to movement and performance. Demonstrate knowledge and skills to achieve and maintain a health enhancing level of overall personal wellness. Apply responsible personal and social behavior that respects self

and others. Recognize physical activity for health, enjoyment, challenge, and social interaction to sustain a physically active lifestyle.

Music Goals:
Music is an essential part of life, integral to the development of the whole person. At the Middle School, all students are provided access to a balanced, comprehensive and sequential program of art and music instruction, which engages learners in developing creativity, self-discipline, cooperation, self-esteem and a life-long appreciation. National and CT State Standards for Music are embedded into the curriculum focusing on vocal development, rhythmic development and artistic expression both creation and performance. The music programs require spaces that are large enough to accommodate performances for up to 100 students at a time. The auditorium and stage are used for both instruction/classroom spaces as well as performance venues for a variety of audiences.

Art Goals:
Art allows students to grow as creative, imaginative, and innovative individuals. The Middle School art class provides students with bountiful artistic experiences in a variety of media, techniques, processes, and cultures. These experiences help to foster an appreciation and respect for the visual arts. National and CT State Standards for Art, along with the Connecticut Common Core, are incorporated into the curriculum. The visual arts curriculum focuses on building sequential artistic concepts and skills, including historical and contemporary artists, while fostering personal expression.

Instructional Design:
The foundation of the Middle School of Plainville is to support students in their academic and social and emotional growth. Upon entering sixth grade, students will engage in an enriching curriculum that represents all content areas to include: literacy, science, mathematics, social studies, art, music, and physical education. The goal of the school is to have every child continue developing individual skills and achieving academically. It is the vision of the Middle School of Plainville that every child achieves at high levels and will acquire the essential skills that will enable them to be successful learners. Plainville embraces the understanding that the skills needed to be prepared for college and career success should be integrated into all areas of learning at MSP: collaborative, communicative, innovative, mindful and resilient. It is also the belief of the Plainville Public Schools that parents, teachers and children are partners in the learning process and serve as the foundation of the educational journey. Adequate space for the instructional program is integral to its success.

Enrollment Data and Proposed Project Capacity

A renovated Plainville Middle School will enroll students in grades 6, 7, and 8. Overall enrollment per the updated enrollment projections is 554 students. The proposed population is based on the highest projected eight (8) year enrollment of 554 students in the 2022-2023 school year.

Size of Facility and Proposed Project Capacity

These specifications provide for a new renovated school facility to serve 554 students.

Attached are the programming matrix and summary based on this population which includes all proposed spaces as defined by the educational needs of the staff, the District and the BOE.

Interior Building Environment

The following is a general description of each space, it is understood that **_all spaces,_** other than storage, will be built with the following items included:

- Air conditioned and adequate air ventilation to meet current codes
- Fire alarm system with horn/strobe notification
- School-wide intercom system
- Fire protection-Sprinkler system
- Emergency lighting as required by code
- Intercom communication with office
- Room darkening shades
- Soft color, dimmable lighting, motion controlled
- Acoustical insulation for soundproofing
- ADA compliant building standards
- Wireless/internet access
- Multiple electrical outlets and USB charging outlets

Academic Core Programs approximately 25,121 sq. ft.

19 – 6th Grade, 7th Grade & 8th Grade classrooms, each approximately 665 sq. ft. feet in size for a total of 12,635 sq. ft.

For room layout: Student desks and chairs, storage and access to technology, ultimately achieving one-to-one devices in each classroom.

Common to all classrooms above:

- 1 teaching station per classroom: Teacher's desk, chair, 4 drawer file cabinet, lockable storage/wardrobe cabinet, lockable
- Space for 24 students in each classroom with handicapped accessibility
- Cabinets for secured storage and project display/storage for learning materials
- Teacher voice module for phone and control of all technology
- Integrated modern technology with one-to-one devices, Wireless Access Point (WAP) in each classroom
- Touchscreen, Smartboard, or Overhead projection racks with screen, most current school technology on the teaching wall
- Magnetic white boards and tack boards
- Luxury vinyl tile/rubber high density flooring and base and vitreous painted walls with acoustic ceilings
- Parabolic LED lighting with variable light level switching or addressable.
- One (1) teacher computer
- 22-inch display
- Wireless keyboard/mouse
- Aux HDMI input

3 – Large Math Classrooms, one per grade, each approximately 1,320 sq. ft. in size

- 2 teaching stations per classroom: Teacher's desk, chair, 4 drawer file cabinet, lockable storage/wardrobe cabinet, lockable
- Space for 48 students in each classroom with handicapped accessibility
- Cabinets for secured storage and project display/storage for learning materials
- Teacher voice module for phone and control of all technology
- Integrated modern technology with one-to-one devices, Wireless Access Point (WAP) in each classroom
- Touchscreen, Smartboard, or Overhead projection racks with screen, most current school technology on the teaching wall
- Magnetic white boards and tack boards
- Luxury vinyl tile/rubber high density flooring and base and vitreous painted walls with acoustic ceilings
- Parabolic LED lighting with variable light level switching or addressable.
- One (1) teacher computer
- 22-inch display
- Wireless keyboard/mouse
- Aux HDMI input

6 - Science Classrooms (2 per grade level) 1,006 sq. ft. ea.

- Comfortable chairs/lab tables to accommodate up to twenty-four (24) students (flexible/adaptable/easily movable work stations; tables that can be locked in place)
- Teacher desk/chair 4 drawer file cabinet, lockable storage/wardrobe cabinet, lockable
- Built-in counters on one wall with adjustable shelving below
- Sink, soap, towel dispenser
- Secured storage for science materials and equipment
- Project storage for student work

- Cabinets for secured storage and project display/storage for learning materials
- Teacher voice module for phone and control of all technology
- Electrical convenience power and USB charging outlets
- Integrated modern technology with one-to-one devices, Wireless Access Point (WAP) in each classroom
- Personal protective equipment (PPE) cabinet,
- Appropriate combustion class fire extinguishers
- Eye wash and emergency showers where applicable
- Lab stations, sinks, etc. to meet accessibility standards
- Touchscreen, Smartboard, or Overhead projection racks with screen, most current school technology on the teaching wall
- Magnetic White boards and tack boards
- Luxury vinyl tile/rubber high density flooring and base and vitreous painted walls with acoustic ceilings
- Parabolic LED lighting with variable light level switching or addressable.
- One (1) teacher computer

- 22-inch display
- Wireless keyboard/mouse
- Aux HDMI input

4 - Science Prep rooms shared between 2 Science Classrooms 133 sq. ft. each

- Built-in counters on one wall with adjustable shelving below
- Secured storage for science materials and equipment
- Electrical convenience power and USB charging outlets
- Sink, soap, towel dispenser
- Luxury vinyl tile/rubber high density flooring and base and vitreous painted walls with acoustic ceilings

1 - English Language Learners Classroom approximately 400 sq. ft.

- 1 teaching station: Teacher's desk, chair, 4 drawer file cabinet, lockable storage/wardrobe cabinet, lockable
- Space for 5-6 students with handicapped accessibility
- Cabinets for secured storage and project display/storage for learning materials
- Teacher voice module for phone and control of all technology
- Integrated modern technology with one-to-one devices, Wireless Access Point (WAP
- Touchscreen, Smartboard, or Overhead projection racks with screen, most current school technology on the teaching wall
- Magnetic White boards and tack boards
- Luxury vinyl tile/rubber high density flooring and base and vitreous painted walls with acoustic ceilings
- Parabolic LED lighting with variable light level switching or addressable.
- One (1) teacher computer
- 22-inch display
- Wireless keyboard/mouse
- Aux HDMI input

1 – Scientific Research Based Interventions (SRBI) Math Class approximately 1,196 sq. ft.

- 1 teaching station per classroom: Teacher's desk, chair, 4 drawer file cabinet, lockable storage/wardrobe cabinet, lockable
- Space for 48 students in each classroom with handicapped accessibility
- Cabinets for secured storage and project display/storage for learning materials
- Teacher voice module for phone and control of all technology
- Integrated modern technology with one-to-one devices, Wireless Access Point (WAP) in each classroom
- Touchscreen, Smartboard, or Overhead projection racks with screen, most current school technology on the teaching wall
- White boards and tack boards
- Luxury vinyl tile/rubber high density flooring and base and vitreous painted walls with acoustic ceilings
- Parabolic LED lighting with variable light level switching or addressable.
- One (1) teacher computer
- 22-inch display

- Wireless keyboard/mouse
- Aux HDMI input

1 - In-School Suspension (ISS) approximately 360 sq.ft. with dedicated bathroom

- Teacher's desk, chair, 4 drawer file cabinet, lockable storage/wardrobe cabinet, lockable
- Space for 6-8 students with handicapped accessibility
- Cabinets for secured storage and project display/storage for learning materials
- Teacher voice module for phone and control of all technology
- Integrated modern technology with one-to-one devices, Wireless Access Point (WAP) in each classroom
- Touchscreen, Smartboard, or Overhead projection racks with screen, most current school technology on the teaching wall
- White boards and tack boards
- Luxury vinyl tile/rubber high density flooring and base and vitreous painted walls with acoustic ceilings
- Parabolic LED lighting with variable light level switching or addressable.
- One (1) teacher computer
- 22-inch display
- Wireless keyboard/mouse
- Aux HDMI input

Special Education approximately 6,275 sq. ft.

1 – Self-Contained Classroom with Lavatory – 675 sq. ft.
- Comfortable chairs/desks/tables to accommodate ten (10) to fifteen (15) students (flexible/adaptable/easily movable work stations)
- Teacher desk/chair
- Functional kitchen area with stove, sink, refrigerator, micro-wave
- Bookshelves
- Built-in counters with shelving below around perimeter of the SLC room
- Secured storage for materials
- Interactive LED Panel (at least 75")
- Wall/ceiling mounted speakers
- Vinyl enhanced tile or flooring that allows for easy movement of furniture
- Magnetic whiteboards (wall-to-wall) on front or side walls
- Bulletin boards lining the back wall
- One (1) teacher computer
- 22-inch display
- Wireless keyboard/mouse
- Aux HDMI input
- Parabolic LED lighting with variable light level switching

3 – Resource Rooms 293 sq. ft., 1 per grade level
- Comfortable chairs/desks/tables to accommodate eight (8) to ten (10) students (flexible/adaptable/easily movable work stations)

- Teacher desk/chair
- Bookshelves
- Built-in counters with shelving below
- Secured storage for materials
- Interactive LED Panel (at least 75")
- Wall/ceiling mounted speakers
- Vinyl enhanced tile or flooring that allows for easy movement of furniture
- Magnetic whiteboards (wall-to-wall) on front or side walls
- Bulletin boards lining the back wall
- One (1) teacher computer
- 22-inch display
- Wireless keyboard/mouse

1 – OT/PT Room – 446 sq. ft.

This room is significantly different than most of the other educational spaces due to the specialized activities that take place here. A list of the items and corresponding activities are listed below.

- parabolic LED lighting with variable light level switching
- Carpet
- Shelving for materials and supplies
- platform swing
- crash pads
- mini trampoline
- weighted medicine balls
- therapy/yoga balls
- BOSU ball
- peanut ball
- small ball pit
- wedges
- foam blocks
- tunnels
- balance and wiggle board
- balance beam (PT)
- soccer and basketball, cones, hula hoops (PT)
- sensory table (ex for kinetic sand, water beads, etc.)
- teepee/tent for quiet space

3 – Reading Rooms 517 sq. ft. ea.

- Comfortable chairs/desks/tables to accommodate eight (8) to ten (10) students (flexible/adaptable/easily movable work stations)
- Teacher desk/chair
- Bookshelves
- Built-in counters with shelving below
- Secured storage for materials
- Interactive LED Panel (at least 75")

- Wall/ceiling mounted speakers
- Vinyl enhanced tile or flooring that allows for easy movement of furniture
- Magnetic whiteboards (wall-to-wall) on front or side walls
- Bulletin boards lining the back wall
- One (1) teacher computer
- 22-inch display
- Wireless keyboard/mouse

1 – Testing Room – 266 sq. ft.

- 1 - Small table,
- Four chairs
- Book shelves
- Secured storage for testing materials
- Carpet
- Bulletin board

1 Conference Room of approximately 350 sq. ft.

- Conference table
- Seating for twelve (12)
- Credenza
- Interactive LED Panel (32-50" display)
- Aux ports for plugging into display
- Wall-to-wall carpeting
- Magnetic whiteboard
- Bulletin board

1 – Large Office shared by 3 counselors – 482 sq. ft.

- 3 - Desk and chair
- 3 – 4-drawer lockable file cabinets
- Fire-rated student records file storage
- Base and wall cabinet storage
- Bulletin boards
- Lockable storage wardrobe
- Network copier and fax machine
- Three (3) computers
- Table and counter space

2 – Connection Room, large 656 sq. ft ea.

- 1 teaching station per classroom: Teacher's desk, chair, 4 drawer file cabinet, lockable storage/wardrobe cabinet, lockable
- Space for 14 students in each classroom with handicapped accessibility
- Cabinets for secured storage and project display/storage for learning materials
- Teacher voice module for phone and control of all technology
- Integrated modern technology with one-to-one devices, Wireless Access Point (WAP) in each classroom
- Touchscreen, Smartboard, or Overhead projection racks with screen, most current

school technology on the teaching wall
- Magnetic white boards and tack boards
- Luxury vinyl tile/rubber high density flooring and base and vitreous painted walls with acoustic ceilings
- Parabolic LED lighting with variable light level switching or addressable.
- One (1) teacher computer
- 22-inch display
- Wireless keyboard/mouse
- Aux HDMI input

2 – Connection Rooms, Small 157 sq. ft. ea.

This room is for testing, parental communications and chill-out space for students

- 1 teaching station per room: Teacher's desk, chair, 4 drawer file cabinet, lockable storage/wardrobe cabinet, lockable
- Space for 2-4 students in each classroom with handicapped accessibility
- Cabinets for secured storage and project display/storage for learning materials
- Integrated modern technology with one-to-one devices, Wireless Access Point (WAP) in each classroom
- Touchscreen, Smartboard, or Overhead projection racks with screen, most current school technology on the teaching wall
- Magnetic white boards and tack boards
- Luxury vinyl tile/rubber high density flooring and base and vitreous painted walls with acoustic ceilings
- Parabolic LED lighting with variable light level switching or addressable.
- One (1) teacher computer
- 22-inch display
- Wireless keyboard/mouse
- Aux HDMI input

Administration and Support Services approximately 2,345 sq. ft.

Main administrative offices will be located at the front, adjacent to the main entry and connected by a security vestibule, allowing visual controlled access to the building through the administration reception waiting area. Glazing will be minimal and secure.

Reception/Secretarial Area – 700 sq. ft.
- Three (3) Secretarial work stations
- One (1) station for Security Monitor
- Counter space
- Visitor seating
- Interactive LED Panel (32-50" display)
- Lockable storage wardrobes
- Two (2) lockable four-drawer filing cabinets
- Fire-rated student file storage
- Base and wall cabinet storage
- Network copier and fax machine

- Security "panic" button with dedicated phone line
- Wall-to-wall carpeting
- Bulletin boards
- One (1) computer per secretary/clerk
- Electronic security system

Principal Office – 250 sq. ft.

- Desk and chair
- Table
- Seating for six (6)
- Lockable storage/wardrobe
- Lockable lateral files
- One (1) large wall unit bookcase
- Interactive LED Panel (32-50" display)
- Security "panic" button with dedicated phone line
- Wall-to-wall carpeting
- Magnetic whiteboard
- Bulletin board
- One (1) computer
- Aux ports for plugging into display
- Adjacent to main office and conference room

Two (2) Vice Principal's Office - 200 sq. ft.

- Desk and chair
- Table
- Seating for six (6)
- Lockable storage/wardrobe
- Lockable lateral files
- One (1) large wall unit bookcase
- Interactive LED Panel (32-50" display)
- Security "panic" button with dedicated phone line
- Wall-to-wall carpeting
- Magnetic whiteboard
- Bulletin board
- One (1) computer
- Aux ports for plugging into display
- Locations to be determined, possibly in academic areas

Administrative Office (Spare) 130 sq. ft.

- Desk and chair
- 1 – 4-drawer lockable file cabinets
- Fire-rated student records file storage
- Base and wall cabinet storage
- Bulletin boards
- Lockable storage wardrobe
- Network copier and fax machine
- One (1) computer
- Table and counter space

Office for School Resource Officer – 80 sq. ft.

- Desk and chair
- 1 – 4-drawer lockable file cabinets
- Base and wall cabinet storage
- Bulletin boards
- Lockable storage wardrobe
- Network copier and fax machine
- One (1) computer

Conference room – 250 sq. ft.

- Conference table
- Seating for twelve (12)
- Credenza
- Interactive LED Panel (32-50" display)
- Aux ports for plugging into display
- Wall-to-wall carpeting
- Magnetic whiteboard
- Bulletin board

Administrative Restroom – 80 sq. ft.

Faculty Room – 455 sq. ft.

- Tables and chairs for up to fifteen (15) staff members
- Cabinets and countertop with sink
- Microwave oven
- Refrigerator
- Dedicated electrical circuits for refrigerator and microwave
- Interactive LED Panel (at least 75")
- Wall/ceiling mounted speakers
- Vinyl enhanced tile or flooring that allows for easy cleanup
- Magnetic whiteboards
- Bulletin boards
- Staff mailboxes

Counseling Center approximately 2,518 sq. ft.

Counseling Reception Area 350 sq. ft.

- Adjacent to Administration offices
- Visitor seating
- Base and wall cabinet storage
- Bulletin board
- Fire-rated student records file storage, as noted above
- Lockable storage wardrobes
- Network copier and fax machine
- One (1) computer
- One (1) Secretarial work station
- Security "panic" button with dedicated phone line
- Table and counter space
- Two (2) lockable four-drawer filing cabinets
- Wall-to-wall carpeting

Conference Room 240 sq.ft.
- Conference table
- Seating for twelve (12)
- Credenza
- Interactive LED Panel (32-50" display)
- Aux ports for plugging into display
- Wall-to-wall carpeting
- Magnetic whiteboard
- Bulletin board

Three (3) Counselor Offices 240 sq. ft. ea.
- Desk and chair
- 1 – 4-drawer lockable file cabinet
- Fire-rated student records file storage
- Base and wall cabinet storage
- Bulletin board
- Lockable storage wardrobe
- Network copier and fax machine
- One (1) computer
- Table and counter space

2 - Psychologist Office 120 sq. ft. (one remote and one local)
- Desk and chair
- 1 – 4-drawer lockable file cabinet
- Fire-rated student records file storage
- Base and wall cabinet storage
- Bulletin board
- Lockable storage wardrobe
- Network copier and fax machine
- One (1) computer
- Table and counter space

Counseling Testing Storage 68 sq. ft.
- Lockable Room with shelving

Counseling Center Storage 100 sq. ft.
- Various shelving and cabinets around perimeter

Nurse's Office with Health Center approximately 800 sq. ft.

- Office
  - One (1) desk with chair
  - One (1) computer

- Exam Room
  - Three (3) cots
  - Privacy screening
- Multiple file cabinets (two (2) four-drawer; two (2) two-drawer
- two (2) double cabinets (full size)
- One (1) double cabinet (half-size)
- One (1) locked medicine cabinet
- One (1) locking wall cabinet
- Large closet with shelving and doors
- Refrigerator
- Sink with hot and cold water, soap, and towel dispenser
- Microwave
- One (1) wheel chair
- Scale
- Lavatory and toilet within Health Clinic
- Eye-wash station
- Double locks on medicine cabinets
- Vinyl enhanced tile
- One (1) large bulletin board
- Centrally located adjacent to office, counseling, social worker, main office

Library/Media Center of approximately 2,428 sq. ft.

Reading Room/Circulation – 1,837 sq. ft.
- The Circulation Center will be located in the center of the Media Center and adjacent to the workroom and media specialist office
- Minimum of three WAP and some supplemental data jacks located throughout for student access to LAN and internet
- Flexible book shelving that can be reconfigured for a collection of 10,000 - 15,000 volumes with open sight lines possible for optimum adult supervision
- Monitors throughout space.
- Rolling book shelves for a limited collection of books with open sight lines possible for optimum adult supervision
- Seating for 24 students at six person tables
- Areas with comfortable seating
- Textbook reserve collection
- Printer
- Wall-to-wall carpeting
- Bulletin Boards to display student work and promotional materials
- Two (2) staff computers for the circulation desk area

Workroom (Maker Space) - 160 sq. ft.
- Movable furniture for 4 students
- Cabinets for secured storage and project display/storage for learning materials
- Integrated modern technology with one-to-one devices, Wireless Access Point (WAP) in each classroom
- White boards and tack boards
- Luxury vinyl tile/rubber high density flooring and base and vitreous painted walls with acoustic ceilings

- Parabolic LED lighting with variable light level switching or addressable.
- One (1) teacher computer
- 22-inch display
- Wireless keyboard/mouse
- Aux HDMI input

Media Production Room – 150 sq. ft.
- 150 sq. ft enclosed area for broadcasting/recording with sound attenuation
- One (1) table for collaborative work
- Secured storage for materials
- Wall/ceiling mounted speakers
- Charging station for battery operated tools
- Vinyl enhanced tile or flooring that allows for easy cleanup

Supply Storage - 150 sq. ft.
- Various shelving and lockable cabinets on perimeter of walls

Media Specialist Office – 131 sq. ft.
- Desk and chair
- 1 – 4-drawer lockable file cabinet
- Base and wall cabinet storage
- Bulletin board
- Lockable storage wardrobe
- Network copier and fax machine
- One (1) computer

MUSIC Programs 2,826 sq. ft.

1 Band Room approximately 1,530 sq. ft.

- Seventy-five (75) performer chairs
- Seventy-five (75) music stands
- One (1) Studio Upright Walter brand Piano with moving dolly attached
- One (1) Large Move and Store Music Stand Cart
- Three (3) Chair Move and Store Carts
- Built-in counters/cabinets with storage above and below
- Teacher's desk, chair, 4 drawer file cabinet, lockable, storage/wardrobe cabinet
- Incorporate new music technologies, WAP
- Electrical convenience power
- Touchscreen, Smartboard, or Overhead projection racks with screen, most current school technology on the teaching wall
- Magnetic white boards and tack boards
- One (1) teacher computer
- Appropriate sound management materials on walls and floor
- Resilient tile floor, Acoustic ceilings and parabolic LED lighting with variable light level switching

1 – Instrument Storage Room 160 sq. ft.

- Shelving and cubbies to store various sized instruments

1 - Chorus Room approximately 1,200 sq. ft.

- Seventy-five (75) performer chairs
- Seventy-five (75) music stands
- One (1) Studio Upright Walter brand Piano with moving dolly attached
- One (1) Large Move and Store Music Stand Cart
- Three (3) Chair Move and Store Carts
- Stereo and speaker system
- Recording equipment built in to classroom for assessment purposes
- Built-in counters/cabinets with storage above and below
- Interactive LED Panel (at least 75")
- Wall/ceiling mounted speakers
- Recording equipment built in to classroom
- Appropriate sound management materials on walls and floor
- Wall-to-wall carpeting Multiple magnetic whiteboards (wall-to-wall) on front and side walls
- Rolling whiteboards
- One teacher computer
- Bulletin boards One (1) wall mounted teacher computer
- 22-inch display
- Wireless keyboard/mouse
- Adjacent to auditorium/theater area

Performing Arts Program 4,255 sq. ft.

1 - Auditorium with 1 - Regular Stage approximately 3,750 sq. ft.

Auditorium – 2,850 sq. ft. The intention is to maximize the seating in the allowable space to support rehearsals, performances and other public events

- Auditorium seating area sloped/stepped main level
- Provide high-quality variable acoustical environment and production support for music, conferences, lectures, and speakers, with projection
- HVAC equipment to include sound deadening air handling equipment
- Front projection system with motorized screen
- Multicam video recording

Stage (including wing space) – 900 sq. ft.
- Seventy-five (75) performer chairs (stackable/storable)
- Seventy-five (75) music stands
- Stage should be accessible to all from auditorium
- Stage to accommodate 75 performers in chairs with music stands

- Ceiling cloud structures adjustable for acoustics control
- Fire-rated proscenium curtain, and all applicable safety standards
- Moveable side curtains
- Stage lighting and sound systems appropriate for size of stage and auditorium

Control Room - 100 sq. ft.
- Connectivity to all built-in lighting, video recording, and sound production within auditorium, and music classrooms;
- With storage for microphones and computers used in productions.
- Control Booth to support performance and recording functions

Storage - 405 sq. ft.

Art Program 2,503 sq. ft.
- Rooms should have high ceiling
- Shelving against walls

1 - 2D Art Room 1,608 sq. ft.
- Ten (10) large tables; twenty (20) chairs
- Teacher desk/chair (possibly built in to counter area to save space)
- 4 drawer file cabinet, lockable, storage/wardrobe cabinet
- Bookshelves
- Built-in counter space with storage above and below
- Document Camera
- Wall/ceiling mounted speakers
- Vinyl enhanced tile or flooring that allows for easy cleanup
- Walls should be functional work spaces and for showcasing student work Multiple magnetic whiteboards (wall-to-wall) on front and side walls
- Bulletin boards lining the back wall
- Closed deep display cases in Learning Community/Visual Arts corridors
- One (1 teacher computer
- 22-inch display
- Wireless keyboard/mouse
- Aux HDMI input
- Include ample storage space within the room
- 2- free standing deep utility sinks with sediment traps dispersed through the classroom
- Electrical convenience power throughout perimeter.
- Uninterrupted flat counter top space with storage cabinets and open shelving including deep and wide drawer shelving with suspension hardware
- Teacher's desk, chair, 4 drawer file cabinet, lockable, storage/wardrobe cabinet, lockable
- Touchscreen, Smartboard, or Overhead projection racks with screen, most current school technology on the teaching wall
- Integrated modern technology, WAP
- Acoustic ceilings and parabolic LED lighting with variable light level switching

1 - 3D Art Room 1,225 sq. ft.

- Ten (10) large tables; twenty (20) chairs
- Teacher desk/chair
- 3 D printer
- 4 drawer file cabinet, lockable, storage/wardrobe cabinet
- Bookshelves
- Built-in counter space with storage above and below
- Document Camera
- Wall/ceiling mounted speakers
- Vinyl enhanced tile or flooring that allows for easy cleanup
- Walls should be functional work spaces and for showcasing student work Multiple magnetic whiteboards (wall-to-wall) on front and side walls
- Bulletin boards lining the back wall
- Closed deep display cases in Learning Community/Visual Arts corridors
- One (1 teacher computer
- 22-inch display
- Wireless keyboard/mouse
- Aux HDMI input
- Include ample storage space within the room
- 2- free standing deep utility sinks with sediment traps dispersed through the classroom
- Electrical convenience power throughout perimeter.
- Uninterrupted flat counter top space with storage cabinets and open shelving including deep and wide drawer shelving with suspension hardware
- Teacher's desk, chair, 4 drawer file cabinet, lockable, storage/wardrobe cabinet, lockable
- Touchscreen, Smartboard, or Overhead projection racks with screen, most current school technology on the teaching wall
- Integrated modern technology, WAP

Acoustic ceilings and parabolic LED lighting with variable light level switching

1 Kiln Room approximately 92 sq. ft.

- Sturdy Rack style shelving for student projects
- Dedicated ventilation
- Electrical disconnect for Kiln

1 Art Storage Room with built-in shelving 118 sq. ft. Shared between art rooms.

Career and Technical Education 6,678 sq. ft.

The Career and Technical Education programs are integral to the educational goals of the Plainville Middle School. Special consideration must be given when designing adjacencies of shared spaces such as classrooms and computer labs. The integration of these programs is essential to the overall success of the STEAM program.

1 Robotics Classroom 768 sq. ft.

- Five (5) to six (6) tables for collaborative work (flexible/adaptable/easily movable work stations)
- Teacher desk/chair (possibly built in to counter area to save space)
- Shelves to store totes of equipment and supplies
- Filing cabinet
- Built-in counters with shelving below around perimeter of the room
- Counters to showcase student work and/or allow for standing collaborative work
- Secured storage for materials
- Interactive LED Panel (at least 75")
- Wall/ceiling mounted speakers
- Three (3) to four (4) outlets on each wall
- Charging station for battery operated tools
- Personal protective equipment (PPE) cabinet,
- Appropriate combustion class fire extinguishers
- Eye wash and emergency showers where applicable
- Vinyl enhanced tile or flooring that allows for easy cleanup
- Multiple magnetic whiteboards (wall-to-wall) on front and side walls
- Bulletin boards lining the back wall
- One (1) teacher computer
- 22-inch display
- Wireless keyboard/mouse
- Aux HDMI input
- Adjacent to shared Media and Art Areas
  In close proximity to garage door to outside for transport of robots

1 – Drafting Classroom 835 sq. ft.
- 1 teaching station, Teacher's desk, chair, 4 drawer file cabinet, lockable storage/wardrobe cabinet, lockable
- Space for 25 students with handicapped accessibility
- Cabinets for secured storage and project display/storage for learning materials
- Teacher voice module for phone and control of all technology
- Integrated modern technology with one-to-one devices, Wireless Access Point (WAP) in each classroom
- Touchscreen, Smartboard, or Overhead projection racks with screen, most current school technology on the teaching wall
- Magnetic white boards and tack boards
- Luxury vinyl tile/rubber high density flooring and base and vitreous painted walls with acoustic ceilings
- Parabolic LED lighting with variable light level switching or addressable.
- One (1) teacher computer
- 22-inch display
- Wireless keyboard/mouse
- Aux HDMI input
- Adjacent to shared Media and Art Areas

1 - Additive Manufacturing 891 sq. ft.
- Five (5) to six (6) tables for collaborative work (flexible/adaptable/easily movable work stations)

- Teacher desk/chair (possibly built in to counter area to save space)
- Shelves to store totes of equipment and supplies
- Filing cabinet
- Built-in counters with shelving below around perimeter of the room
- Counters to showcase student work and/or allow for standing collaborative work
- Secured storage for materials
- Interactive LED Panel (at least 75")
- Wall/ceiling mounted speakers
- Three (3) to four (4) outlets on each wall
- Charging station for battery operated tools
- Personal protective equipment (PPE) cabinet,
- Appropriate combustion class fire extinguishers
- Eye wash and emergency showers where applicable
- Vinyl enhanced tile or flooring that allows for easy cleanup
- Multiple magnetic whiteboards (wall-to-wall) on front and side walls
- Bulletin boards lining the back wall
- One (1) teacher computer
- 22-inch display
- Wireless keyboard/mouse
- Aux HDMI input
- Adjacent to shared Media and Art Areas

1 - 3-D printer booth with viewing window 120 sq. ft.

Wood Shop 1,187 sq. ft.

- Teacher desk/chair (possibly built in to counter area to save space)
- Shelves to store totes of equipment and supplies
- Assorted stationary power tools (will be outlined in the FF&E)
- Stationary air compressor with distributed multiple access points
- Filing cabinet
- Built-in counters with shelving below around perimeter of the room
- Secured storage for materials
- Interactive LED Panel (at least 75")
- Wall/ceiling mounted speakers
- Three (3) to four (4) outlets on each wall
- Charging station for battery operated tools
- Personal protective equipment (PPE) cabinet,
- Appropriate combustion class fire extinguishers
- Eye wash and emergency showers where applicable
- Vinyl enhanced tile or flooring that allows for easy cleanup
- Multiple magnetic whiteboards (wall-to-wall) on front
- Bulletin boards lining the back wall
- One (1) teacher computer
- 22-inch display
- DVD/Blu-ray
- Wireless keyboard/mouse
- Aux HDMI input

Wood Shop storage 215 sq. ft.
- Racks for plywood and wood storage
- Cabinets and shelving for tool storage and materials supplies

Media Broadcast Lab with Green Room 1,316 sq. ft.
- 1 - I00 sq. ft enclosed area within the room for broadcasting/recording
- Three (3) to Four (4) tables for collaborative work (flexible/adaptable/easily movable work stations)
- Teacher desk/chair
- Shelves to store totes of equipment and supplies
- Filing cabinet
- Built-in counters with shelving below around perimeter of the room
- Counters for standing collaborative work
- Secured storage for materials
- Interactive LED Panel (at least 75")
- Wall/ceiling mounted speakers
- Three (3) to four (4) outlets on each wall
- Charging station for battery operated tools
- Personal protective equipment (PPE) cabinet,
- Appropriate combustion class fire extinguishers
- Vinyl enhanced tile or flooring that allows for easy cleanup
- Walls should be functional work spaces and for showcasing student work
- Multiple magnetic whiteboards (wall-to-wall) on front and side walls
- Bulletin boards lining the back wall
- One (1) teacher computer22-inch display
- Wireless keyboard/mouse
- Aux HDMI input

Media Broadcast Finish Room with Storage 210 sq. ft.

Family & Consumer Science Classroom 1,029 sq. ft.
- Teacher desk/chair
- Five (5) kitchen work stations with sinks, countertops, cabinets
- Stoves, dishwasher and microwave ovens
- Cabinet storage for all food related utensils
- Teacher desk/chair (possibly built in to counter area to save space)
- Shelves to store totes of equipment and supplies
- Filing cabinet
- Built-in counters with shelving below around perimeter of the room
- Secured storage for materials
- Interactive LED Panel (at least 75")
- Wall/ceiling mounted speakers
- Three (3) to four (4) outlets on each wall
- Personal protective equipment (PPE) cabinet,
- Appropriate combustion class fire extinguishers
- Eye wash and emergency showers where applicable
- Vinyl enhanced tile or flooring that allows for easy cleanup
- Walls should be functional work spaces
- Multiple magnetic whiteboards (wall-to-wall)

- Bulletin boards lining the back wall
- One (1) teacher computer
- 22-inch display
- Wireless keyboard/mouse
- Aux HDMI input

Physical Education 10, 233 sq. ft.

Gymnasium 6,820 sq. ft.
- All-purpose wood floor system with essential markings
- Removable protective matting
  Adequate wireless connectivity
- One high school competition main basketball court (50'x84')
  Two cross courts)
- Bleacher seating
- Ceiling mounted air destratification fans
- Sound system
- Ropes, nets and basketball hoops
- Padding on walls and floor for physical education programs
- Suspension equipment and/or storage rooms for pads
- Room dividing curtain/mesh to bisect the space for dual activities
- High output LED lighting for efficiency and color correction for multipurpose activities.
- Acoustic wall panels
- 1 Electronic scoreboard

2 -Locker Rooms, 1 for the Boys and 1 for the Girls 613 sq. ft. ea.
- Lockers
- Benches
- Restrooms

1 – Fitness Center approximately 1,200 sq. ft.
- Various exercise equipment
- Various weight lifting equipment
- Adjustable shelves
- Cabinets
- Wall peg storage
- Vinyl enhanced tile
- Multiple magnetic whiteboards (wall-to-wall)
- Bulletin boards lining the back wall
- Close to medical services
- Close to locker rooms
- Ice making machine

2 – P. E. Offices approximately 250 sq. ft. each
- Teacher's desk, chair, 4 drawer file cabinet, lockable storage/wardrobe cabinet,
- One (1) teacher computer
- 22-inch display
- Wireless keyboard/mouse
- Aux HDMI input

2 – P. E. Storage Rooms of 160 sq. ft. ea.

- Sealed concrete floor and high ceilings

Student Dining and Food Services 3,940 sq. ft.

Cafeteria Student Dining Area approximately – 3603 sq. ft.

Typical acoustical treatments for the walls to dampen sound are needed. The cafeteria should be constructed adjacent to the kitchen. Multiple student traffic flows should be considered in the placement of the food serving line.

- The room should accommodate risers with handicapped accessibility
- Space to seat approximately 180 students per lunch wave in 3 waves
- Lighting and sound systems to support the instructional use of the space
- State-of-the-art public technology including but not limited to a projector and pull-down screen at stage
- Acoustical treatment of wall and ceiling to support the use of the space
- Resilient tile flooring durable and washable, with slip resistant finish
- Provide windows with abundant natural light and create relationships to exterior
- Provide exterior dining
- Vitreous painted or masonry walls for durability and high lay-in ceilings, durable and washable
- High out-put LED lighting for efficiency and color correction for dining and multipurpose activities
- Portable (fold in half on wheels) cafeteria round tables
- Convenience power for cleaning equipment and staff/visitor laptops
- Numerous WAP for LAN and internet use by staff, students, and visitors
- Several Monitors throughout space
- 4 Hand washing stations

Servery – 345 sq. ft.
- Provide "Food Court" Style Serving
- Provide 2 (POS) Point of Sale registers

Food Services 2,222 sq. ft.

Preparation Area: 1,367 sq. ft.
- Double sink preparation tables each with one (1) standard faucet and one (1) pre-rinse faucet
- Slicing machine
- 2 - Warmers
- Buffalo chopper
- Food processor
- Small ice making machine
- Upright blast chiller

- Microwave oven to be located in cafeteria
- Two (2) Double Deck Convection Ovens
- One (1) Combi-Oven
- One (1) Convection Steamer
- One Pasta Kettle – 30 gallons
- One (1) 12- Burner Range
- Three (3) compartment sink assembly with drain boards for pot and pan washing; each compartment shall measure 27" x 27" x 16" deep; a pre-rinse spray assembly required at one (1) sink compartment
- Hot & Cold Food Stations
- Deli Stations
- Express Stations for self-serve foods and dry display snacks
- Refrigerated merchandisers for bottled beverages
- Cashier stations strategically located at the exit from the Servery
- Mobile condiment stations to be located at the exit of the Servery

Utility Requirements
- Utility Distribution System with quick disconnect devices for all services
- Walk-in refrigerators and freezers will require back-up generator power; audio/visual temperature alarm; refrigeration control alarm; temperature alarms to be wired to "Building Monitoring System
- Water conservation methods
- Provide High Efficiency Energy Star Label Equipment & lighting
- Exhaust hoods: Demand Control Ventilation Package
- Temperature maintenance, water filtration and sanitation to promote food safety
- Exterior in-line grease trap to conform to FOG Program

1 - Dry Food Storage: 240 sq. ft.
- Shelving designed to accommodate canned goods and various non-refrigerated food items

1 - Walk-in Cooler: 80 sq. ft.
1 - Walk-in Freezer: 80 sq. ft.

Staff Lavatory/Lockers: 100 sq. ft.
- Toilet room with sink
- 8 lockers for personal items

Director's Office: 100 sq. ft.
- Desk/chair
- Visitor seating
- One (1) lockable teacher storage wardrobe
- One (1) lockable four-drawer filing cabinet
- Vinyl enhanced tile
- Magnetic whiteboard
- Bulletin boards
- One (1) computer
- Adjacent to kitchen area

Non-Food Storage 65 sq. ft.
- Shelving for paper goods and other non-food supplies

Custodial Services 537 sq. ft.

Workroom Storage 272 sq. ft.
- Sturdy shelving to accommodate tools and maintenance supplies

Custodial Office with Restroom 265 sq. ft.

Furniture & Equipment
- Two (2) desk/chair
- Workstation table
- Visitor seating for four (4)
- Small refrigerator

Storage
- One (1) lockable four-drawer filing cabinet

Flooring
- Vinyl enhanced tile

Boards
- Magnetic whiteboard
- Bulletin boards

Technology
- One (1) computer
- One (1) laptop or PC for building automation

Building Systems

The school will have an automatic building controls system designed to promote a safe, efficient, and healthful indoor environment. The Building Management System is to be **(Alerton)**, the preferred system of the district. At minimum, the new building will require the following systems to meet the programmatic needs of the school: the telecommunications infrastructure shall consist of a **state-of-the-art**, voice, video, and data network. The network is to be designed to provide users voice, video, and data communication across the globe.

The building's voice network is currently a VOIP (Voice Over Internet Protocol) and will be re-used. It will provide telephone and intercom service to all academic and administrative spaces. A typical user will have the capability to call room to room or access outside local and long-distance line using access codes. All users will have the option to answer intercom calls via the "hands free" speakerphone or pick up the handset for privacy. Administrators will have the added capability to perform all-call and zone pages from various locations. All-call and zone-paging functions can be routed to the speakerphone or the traditional ceiling-

mounted speaker. All users will also have access to voice mail. The voice mail system is capable of individual mailboxes as well as public boxes for homework assignments, event notification, school information, or other various announcements.

The digital network shall consist of CAT6 and fiber optic cabling. A typical classroom will be wired with CAT6 to accommodate a minimum of eight computers or peripherals with additional wireless access. Labs and specialty areas will range from 30 devices and administrative areas from two devices per occupant. In addition to supporting the data network, the fiber optic cabling will support the video network. All computers on the network will have Internet access. The IT Head end room listed in building services shall be equipped as follows;

- Four (4) full size server racks
- Four (4) half size network racks
- Four (4) patch panel racks
- Raised flooring
- Dedicated space for utility and telecom entrance (demarc)
- Redundant electrical power for all equipment racks
- Ceiling cable conduits run throughout the room and to each rack
- Dedicated HVAC for the room
- Dedicated air filtration system
- Dedicated fire suppression system
- Electronic security system

Note: CAT6 or better should be employed at a minimum, and 1 GB to desktop is what is currently available and 10GB trunks to all interconnections to all of the data closets. Also, one, or ideally two 1 GB drops in the ceiling for wireless APs should installed for support of the wireless infrastructure.

1. Integrated voice, video, and data in all spaces with a minimum of five data locations in each classroom and within the computer lab. Head-end equipment for distribution is to be located in the head-in room. Internet and cable television access is also required. The technology infrastructure should support the highest feasible speeds over both wired and wireless infrastructure.

2. Integrated telephone and intercom system with dial-out capabilities and paging from each area of the school is needed. The school-wide intercom system shall include both the interior and exterior of the school and be linked with the Emergency Notification System.

3. Security and video surveillance systems are to be provided for selected areas of the school, primarily at points of entry and high traffic areas of the school. The security system should use both infrared and motion sensing technology. The exterior doors should have electronic contacts that activate video cameras, the system preferred by the district is **(Bosch)** or equivalent. A monitoring console for the video surveillance should allow the viewing of all exterior doors, parking lots, and delivery areas. Panic buttons should be provided for immediate access to the local Police Department via a telephone dial-out switch. The access system shall be **(Intel-M)** or equivalent.

4. The fire alarm system with sprinklers, pull stations, horns, flashing, lighting, voice evacuation in areas of large assembly, smoke and heat detectors, battery backup, and

plastic shields on pull stations shall be **(Notifier),** the preferred system of the district. Depending upon the building design, the fire alarm system should be integrated and monitored through one location. The fire alarm system should have a direct connect to the local Fire Department in case of activation. The Fire alarm system shall incorporate voice, and T.T.S. (Text to Speech) to both the interior & exterior

5. A fully digital energy management system **(Alerton)** to monitor and control mechanical systems for heating, ventilation, air conditioning, and interior and exterior lighting with appropriate manual overrides is required.

    Note: System compatibility should be as other buildings when possible.

6. A fully programmable clock and bell system (basis of design **Primex**) is requested that will allow the school administration flexibility of bell signals as needed. Clocks must be located in all spaces throughout the school. Choice of tones and loudness levels must be part of the program that can be modified by the administration. (NTP time synchronization)

7. There is to be a lighting plan to promote an optimal learning environment. Lighting should be designed with motion sensors and to maximize the use of natural lighting in all areas of the building with supplemental artificial lighting to ensure appropriate foot candles of low-glare brightness and illumination. External lighting should be environmentally friendly.

8. The keying system shall be (**Sargent**) the preferred system of the district

9. Interior surfaces, carpeting, and related interior finishes should be used that are easy to maintain.

The electrical service provided to the building should be designed to meet the need of all mechanical equipment, lighting, and educational equipment. Controls should be through circuit breakers, and the entire system must be properly grounded. Lightning protection should be studied by the engineers of the new school and installed if the supporting documentation requires the additional protection.

All light fixtures, controls, motors, switches, and electrical components must be of an energy-conscious design to reduce the use of electricity. All operating systems must be monitored and controlled by an energy management system capable of reducing peak demand and load shedding.

All counter tops shall be solid surface, no laminates

All restrooms, locker rooms, kitchen and laundry area of the gym are to have self-priming floor drains and hose bibs for ease of cleaning.

Self-priming floor drains are to be installed wherever eye-wash stations are located

Restrooms, locker rooms, custodial closets to have non-slip epoxy flooring system. With consideration of epoxy flooring for Wood shop, Tech Lab and Consumer Science

All restroom stalls to be full thickness phenolic plastic – no exceptions

Plumbing in the school must meet present codes; and the sanitary sewer lines must be properly sized and located to handle the anticipated load.

Multiple bottle filler/drinking fountain stations are to be installed throughout the facility.

Soap Dispensers, paper towel dispensers and toilet paper holders will be furnished by the district to meet district uniformity standards.

The entire facility should be properly heated and cooled, including temperature control of the entire building with remote computer access regulation off site. The controls specified must be compatible with systems currently in use throughout the school system.

The facility must be accessible to handicapped individuals and appropriate provisions made for all doors, stairs, built-in equipment, sinks, toilets, and other fixtures.

Note: There needs to be an on-site emergency generator. It should at a minimum power all data closets including environmental temperature control, HVAC equipment, food service refrigeration units, emergency systems, lighting and main office area

Site Development

Siting of the new facility will be extremely important, currently the school is located in a residential neighborhood and traffic issues exist. Also, the design professionals will need to confer with the Board of Education Facilities Director and the Town Parks & Recreation Director to develop a comprehensive plan that addresses the communities athletic field requirements with regards to baseball fields, soccer fields and tennis courts and hopefully, increasing athletic fields if possible.
The design of the school should include concrete sidewalks be constructed around the perimeter of the building. Concrete curbs should be used adjacent to those sidewalks. An entry plaza will be constructed at the main entrance consisting of scored concrete or pavers, trees, benches and a flagpole. Site lighting will be provided throughout the parking lots and along pedestrian ways around and into the building. In addition, the Town maintains a strict tree conservation program and it is recommended that the design professionals, specifically the landscape designers, confer with the local tree warden to ensure compliance with the Town's regulations.

Currently the state requires all new schools, at a minimum, to achieve a "Green Design" equivalent to LEED silver. This is an important area of concern and one expressed by many members of the community. They would like to see this as an opportunity to enhance the design and environmental impacts of the construction and long-term maintenance of the building and site. The design professionals should consider "sustainable construction practices" that not only reduce the carbon footprint but also provide a safer, cleaner building environment for the occupants. Long term sustainable energy, such as solar or geo-thermal should be considered in the design to lower annual operating costs and contribute to a cleaner environment.

Construction Bonus Requests

The Plainville BOE may seek any or all special programs eligible for a school bonus at the new Plainville Middle School.

- School Readiness Program (C.G.S. Section 10-285a(e))
- Out-of-District Students (CHOICE) (C.G.S. Section 10-285a(g))

Community Uses

The school facility will be utilized by the community for a variety of purposes, there will be community use of the gymnasium for Parks & Recreation programs, the district may utilize the building as an emergency preparedness location in the event of a local need. In addition, the facility will be used as a polling location. The auditorium will provide not only a superb venue for school events and assemblies but also will serve as a community meeting place for their local government.

Program Diagrams and Program Matrix

SUMMARY: PROPOSED ARCHITECTURAL PROGRAM
New Plainville Middle School
Projected Enrollment: 554Students

Academic Classrooms			
Academic Core Classrooms	19	665	12,635
Large Math Classroom	3	1,320	3,960
General Science Classroom/Lab	6	1,006	6,037
Science Prep Workroom (Shared)	4	133	533
ELL Classroom	1	400	400
SRBI Math Classroom	1	1,196	1,196
In-School Suspension	1	360	360
Total			**25,121**
Special Education Programs			
Self-Contained Classroom with Lavatory	1	675	675
De-escalation Room attached to Self-Contained Rm	1	400	
Resource Rooms (1 per grade)	3	293	880
OT/PT Room	1	446	446
Speech, Language, Hearing Room	1	400	
Reading Room	3	517	1,550
Testing Office	1	266	266
PPT Conference Room	1	350	350
SPED Office (shared by 3)	1	482	482
Connections Room	2	656	1,312
Connections Room small	2	157	314
Total			**6,275**
Administration & Support Services			
Main Office: Reception, Secretarial Area	1	700	700
Principal's Office	1	250	250
Assistant Principal Office	2	200	400
Administrative Office (Spare)	1	130	130
School Resource Officer	1	80	80
Conference Room	1	250	250
Administrative Restroom	1	80	80
Faculty Room	1	455	455

Total			**2,345**
Counseling Center			
Counseling/Reception Area	1	350	350
Conference Rm	1	240	240
Counselor Offices	3	240	720
Psychologist Offices	2	120	240
Testing Storage	1	68	68
Counseling Center Storage	1	100	100
Health Suite includes Nurse's Office	1	800	800
Total			**2,518**
Media Center			
Reading Room/Circulation	1	1,837	1,837
Workroom (Maker Space)	1	160	160
Media Production	1	150	150
Storage	1	150	150
Multimedia Equipment Storage	1	250	
Media Center Specialist Office	1	131	131
Total			**2,428**
Music Programs			
Band Room	1	1,530	1,530
Key Board Room	1	200	
Aux. Band Room for Percussion	1	400	
Instrument Storage	1	160	160
Music Office	1	120	
Chorus Room, Tiered Seating	1	1,136	1,136
Chorus Room Storage	1	50	
Total			**2,826**
Performing Arts Programs			
Auditorium	1	2850	2,850
Stage and Wing Space	1	900	900
Control Room (Auditorium)	1	100	100
Storage	3	135	405
Total			**4,255**
Art Programs			
2 D Art Room	1	1,068	1,068
3 D Art Room	1	1,225	1,225
Kiln Room	1	92	92

Storage (Shared)	1	118	118
Student Project Storage	2	100	
Total			**2,503**

Career & Technical Education Programs

Robotics Classroom	1	768	768
Drafting	1	835	835
Additive Manufacturing	1	891	891
3-D Printer Closet with Window	1	120	120
Wood Shop	1	1,187	1,187
Wood Shop Storage (open)	1	215	215
Finish Room	1	107	107
Media Broadcast Lab includes Green Room	1	1,316	1,316
Media Broadcast Finish Room and Storage	1	210	210
Family and Consumer Science Room includes Storage	1	1,029	1,029
Total			**6,678**

Physical Education Programs

Large Gym	1	6,820	6,820
Fitness Center	1	1,200	1,200
Boys Locker Room with Restroom	1	613	613
Girls Locker Room with Restroom	1	780	780
PE Office with restroom, shower and storage	2	250	500
PE Storage	2	160	320
Total			**10,233**

Student Dining Services

Student Dining	1	3,603	3,603
Servery	1	344	344
Total			**3,940**

Food Services

Kitchen: Preparation Area	1	1,367	1,367
Kitchen: Dry Food Storage	1	240	240
Dish Room	1	200	200
Kitchen: Cooler/Freezer walk in	2	80	160
Staff Lavatory /Lockers	1	90	90
Dietician Office – Director	1	100	100
Non-Food Storage	1	65	65
Total			**2,222**

Custodial Services			
Workroom/Storage	1	272	272
Custodial Office	1	265	265
Total			**537**

Building Services (Core Factor)			
Building Storage	3	203	609
Public Toilets Men's	3	44	132
Public Toilets Women's	4	43	172
Student Toilets Boy's	3	186	558
Student Toilets Girl's	3	183	548
All Inclusive Toilets	3	50	
Custodial Closets	3	71	212
Mechanical/Boiler Room	1	1,580	1,580
Electrical Room	1	200	200
Telecom IT Server Room	1	200	
Elevator /Machine Room	1	200	200
Loading Receiving	1	100	
Circulation (Lobbies, Corridors, Vestibules)			16,249
Interior Wall Partitions, Lockers, Chases, etc.			8,790
Total			**29,250**

Total Building Core /Circulation			**29,250**
Total Program Area			**71,888**
Total Building Area			**101,138**