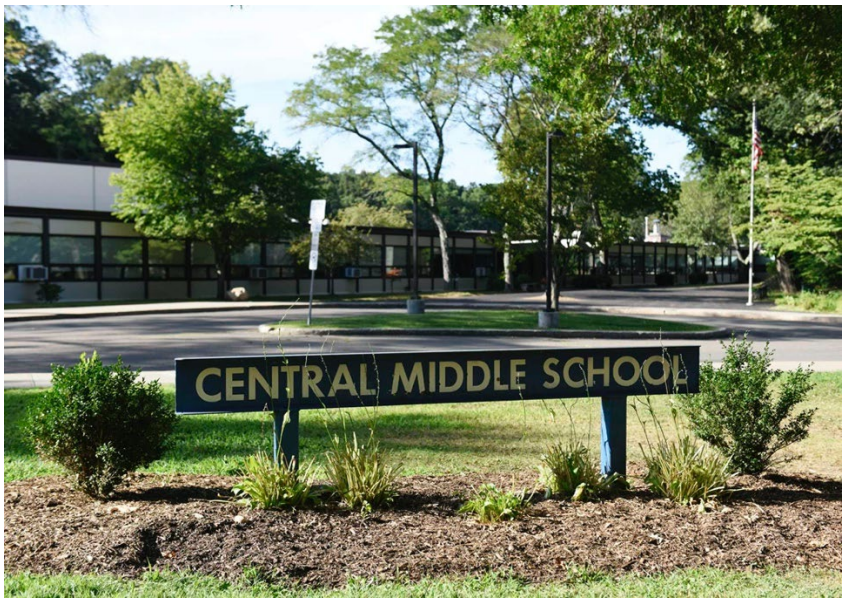
GREENWICH PUBLIC SCHOOLS



EDUCATIONAL SPECIFICATIONS

Approved August 11, 2022
Revised April 24, 2023

Greenwich Central Middle School
9 Indian Rock Lane
Greenwich, Connecticut 06830

PREPARED FOR:

Greenwich Board of Education
290 Greenwich Avenue
Greenwich, CT 06830

PREPARED BY:

CSG CONSTRUCTION SOLUTIONS GROUP

Construction Solutions Group, LLC
1137 Main Street
East Hartford, CT 06108
www.csgroup-llc.com

Project Overview

Due to on-going structural issues at the Greenwich Central Middle School the Greenwich Board of Education, in its effort to maintain a high level of student achievement, commissioned an engineering study of the Greenwich Central Middle School. The purpose of the study was to develop an assessment of the condition of the school to determine the impact of the existing conditions on the educational program currently in place. The ensuing report was comprehensive resulting in a number of serious issues in need of attention.

Consequently, the Board of Education made numerous recommendations that has resulted in the Board to submit a grant application for a new Greenwich Central Middle School. These conditions are outlined in the project rationale section of the document.

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

Nick Coletti – SPED Kevin
Krois – 8th Grade
Laine De Souza – 8th Grade
Francis Norris-Oliva – 8th Grade
Elana - SPED
Sandra Dunigan - SPED
Judy Baumeister - SPED
Danielle Berard – SPED
Lisa Boone – Literature Jeff
Santilli - Wood shop Jamiee
Previs – 7th Grade Mike
Schacter – 7th Grade Tony
Mangano – 7th Grade
Jessie Outhouse – 7th Grade
Michelle Sandone – Art
Kathleen Beinstein – 6th Grade
Annette Ready– 6th Grade
Traceyann Ferguson– 6th Grade
Valerie Palace– 6th Grade
Ryan Pirro – 6th Grade
Nicole Cerniglia - 6th Grade
Haley Scallon - 6th Grade
Ashley Shive - 6th Grade
Bryan Sample - 6th Grade
Rose Rinaldi – SPED
Kate – Mental Health
Lesley Palange - Mental Health
Michele Davis - Mental Health
Ashley Dawson - Mental Health
Colleen Alfano - Mental Health
Maria Wodward – 7th Grade
Katherine Zapsky– 7th Grade
Brian Maher– 7th Grade
Samantha Franzese– 7th Grade

Rationale for the Project

The Greenwich Central Middle School building was built in 1957 with a classroom addition constructed in 2000. The main structure is typical of the era in which it was built, “thin” masonry that is in fair to poor condition with some significant structural issues affecting the masonry walls. The design of the walls has elements that are avoided in today’s school designs, such as low ceilings which do not allow ample windows or natural light and prevents the installation of ventilation ducts due to insufficient plenum space. Also, some structural components such as steel columns are exposed and conduct a thermal transfer into interior rooms.

The issue of compromised masonry and steel began to be investigated as early as 2009 with a comprehensive report developed by DiSalvo Engineering Group in 2017. Ultimately this resulted in an immediate remediation to shore up roof sections and repair or replace steel columns. As recently as January 2022, Diversified Technology Consultants (DTC) identified “significant structural concerns” which resulted in a temporary closing of the building until it could be deemed safe for occupancy.

In addition, the infrastructure and most of the building’s original components are in poor condition. this includes, a majority of the programmatic spaces which are lacking in fundamental requirements such as security, technology, power distribution and quality building controls to regulate temperature and air quality. The school administration decided to hire a consultant, CSG 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. The Board of Education has decided for the district to apply for a school construction grant to build a new Middle School. This grant will enable the district to address the following items:

- A new school will eliminate the on-going expensive repairs that occur annually along with repetitive disruption to the educational program.
- A new school will re-establish confidence in the structure of the facility and give students, parents and staff peace of mind.
- 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 requires a minimum of 800 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 room temperatures and air quality.

- The existing building design does not allow for the retro-fitting of ducted air systems due to lack of plenum area.
- Building controls are outdated and need replacing. It is challenging, if not impossible, to interface new building controls with older mechanical equipment. The 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 marginalized and needs replacing and upgrading.

In evaluating the problems noted above, it became apparent that a major renovation would be insufficient to remedy all of the deficiencies outlined. Therefore, the Board of Education is recommending that a replacement of the existing school is necessary to meet the educational needs of the district. The intention is to hire an architectural/engineering firm that has experience of designing and constructing a new school on an existing site while the current school continues to operate. This will require a phased approach, as once the school is completed, the old school will be razed and that area will be re-purposed for athletic fields, parking etc.

Long Range Educational Plan

Rebuilding the Greenwich Central Middle School will enable the district to achieve their long-range goals, such as:

- Create a Unified Arts program incorporating mathematics, science, technology and the arts in an environment 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 660-student enrollment capacity.
- Design professionals will utilize the “Connecticut School Construction Standards and Guidelines” as the basis of design particularly as it pertains to school safety.
- Ensure a safe and secure environment for students and faculty to be able to focus on teaching and learning. All entry points are to have an enclosed safety vestibule.
- Create a secure entryway, camera system and PA system with adequate functions for students with special needs.
- The P.A. system shall have the ability to broadcast messages to the exterior of the building, including parking areas, recreation fields and patio areas.
- 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 envelopes 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 Greenwich Graduate.
- 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 MTSS (Multi-Tiered System of Support) 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

It is the Mission of the Greenwich Public Schools to educate all students to the highest levels of academic achievement, to enable them to reach and expand their potential and to prepare them to become productive, responsible, ethical, creative, and compassionate members of society.

During Covid the BOE chose to extend the 2015-20 plan through 2022 and a BOE Strategic Planning Committee is preparing an update for the next 5 years. The Strategic Plan is designed to drive academic, personal and interpersonal growth by providing personalized learning opportunities for each student. Personalized learning provides customized learning paths, anchored in a standards-based curriculum, for each student, giving them meaningful choice in their learning options based on individual strengths, needs, and interests.

The Strategic Plan is organized in support of achieving three Strategic Goals:

- Academic Goal – to ensure each student achieves optimal growth within the core academic disciplines based on multiple variables
- Personal Goal – to ensure each student develops the capacity to be responsible for his or her own physical and mental health
- Interpersonal Goal – to ensure each student demonstrates growth in personal development and civic responsibility

The Vision of Central Middle School (CMS) is to develop high performing students in a safe and nurturing environment. At CMS, all learners are empowered for active participation in their community through purposeful, authentic, and personal learning opportunities.

The Greenwich Central 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.

Learning / Educational Activities

Academic Goals

Math

The Greenwich Public Schools Mathematics Program is aligned with the Connecticut Core Standards for Mathematics and is committed to providing all students with a high-quality, comprehensive and challenging program. The program provides consistent opportunities for students to develop the knowledge, skills and capacities necessary to be college and career ready. The guiding principle that drives the mathematics program is that every student will access a high-quality, comprehensive, and challenging program.

Literacy

Our mission is to instill a capacity for communication, empathy, and citizenship through critical thinking, reflection, and appreciation of diverse viewpoints. We aim to foster life-long learners, thinkers, collaborators and communicators.

Through the program, all GPS students will successfully master literacy, reading, writing, listening, speaking, and Social Studies learning standards and will be able to effectively study and critically think about how people process and document the human experience. GPS students study other writers and thinkers, contemporary and historical, in order to develop their own abilities to read, write, speak, and think critically and globally.

Social Studies

Our mission is to instill a capacity for communication, empathy, and citizenship through critical thinking, reflection, and appreciation of diverse viewpoints. We aim to foster life-long learners, thinkers, collaborators and communicators. Through the program, all GPS students will successfully master Social Studies learning standards and will be able to effectively study and critically think about how people process and document the human experience. The Social Studies Curriculum is aligned to the Connecticut Elementary and Secondary Social Studies Frameworks and College, Career, and Civic Life (C3) Framework.

Science

The Greenwich Public Schools Science Program is designed to promote best practices of science and engineering education aligned with the Next Generation Science Standards (NGSS) while fostering interdisciplinary connections between Science, Language Arts, Math and Technology. The focus of the new NGSS curriculum is aligned with the Vision of the Graduate and embodies a student-centered inquiry approach. Grounded in the NGSS authentic science and engineering practices, students will engage in rigorous, real-world issues and with state-of-the art design challenges.

Physical Education/Wellness

The goal of the Wellness and Physical Education Program in Greenwich Public Schools is to develop physically literate individuals who have the knowledge, skills and confidence to enjoy a lifetime of healthful physical activity.

Music

The purpose of music education is to prepare students for a lifetime of active, satisfying involvement with music in a variety of forms. Contemporary life is filled with musical encounters. Music education should empower students to create, refine and notate their own original music; read, interpret and perform music literature created by themselves and others; and respond with understanding to others' musical works and performances (CSDE- Learning Targets).

Art

The Arts continue to drive our identity during current times. It allows people to connect more deeply and open their eyes to new sights around them. Through Arts education, students are exposed to various forms of expression and strategies to communicate through a variety of culturally-influenced mediums. Participation in the Arts, especially during the early years of

life, have proven to support developing culturally-responsive, compassionate, and creative contributing members of society. The Arts challenge us to rethink perspectives and demand a newer, better world.

Outdoor Learning

Including an outdoor amphitheater at the school will allow students the opportunity to have outdoor performances. Creating this physical space outside of the school helps the students experience, explore and interact with the environment and each other in a very different setting. This outdoor learning area also provides teachers a completely different experience and opportunity to teach in innovative and creative ways. The amphitheater should be built just outside of the auditorium and have a retractable door that would allow it to share the stage with the auditorium which would have the added benefit of expanding the functionality of the auditorium as well. This space should have tiered seating, a sound system, lighting and connectivity to WIFI.

This will also provide an opportunity to expand the learning area by having the students use the surrounding land to grow plants and for use in their cafeteria and consumer science program. The middle school students could then engage is different aspects of farming as well. This space enables the students to experience all the senses and give the students the chance to learn, understand and reflect on the physical environment.

Wellness

The social and emotional wellness of the students is important to consider in the design of the building. Areas of respite where students can go to be stress free should be established. Students should have the opportunity to be able to meet in small groups with staff and interact. These spaces can allow the students to release anxieties and express emotions in a worry-free environment. Students can then interact with other students in a controlled environment conducive to learning

Instructional Design

The foundation of the Central Middle School 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 Central Middle School that every child achieves at high levels and will acquire the essential skills that will enable them to be successful learners. Greenwich embraces the understanding that the skills needed to be prepared for college and career success should be integrated into all areas of learning at CMS: collaborative, communicative, innovative, mindful and resilient. Much of this learning and instruction will take place in the Media Center which, due to its unified arts approach, will serve as the hub of the school. The close proximity to the Career and Technical Education Program will enhance the learning opportunities of all students. It is also the belief of the Greenwich 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 10-year enrollment projection was conducted by Peter M. Prowda, PhD, an independent consultant hired by Greenwich Public Schools. For purposes of grant applications, the State of Connecticut reviews the enrollment data for the 8 years starting with the year of the application submittal. According to the study a renovated Central Middle School will enroll students in grades 6, 7, and 8 and enrollment per the updated enrollment projections for year 2022-23 is projected to be 511 students.

There is a strong concern within the community that the school may very well see an increase in enrollment. Historically, the current school has seen significant fluctuations in enrollment with as many as 730 students in recent years. The Board of Education is committed to building a school that will not only last 75 years but serve the long-term educational needs of the community.

It is strongly advised that the design team include within their design, methods whereby the school could be enlarged. Options should include vertical expansion such as designing and constructing the school with a structural design capable of supporting a “Live Load” at the roof level so that a second floor could be added more efficiently. Also, a building and site design that plans for a horizontal addition so that a wing might be added to increase classrooms or other needed program requirements.

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 and voice T.T.S. (Text to Speech) interior & exterior
- School-wide intercom system, interior & exterior and linked with the Emergency Notification System
- Sprinkler system
- Emergency lighting as required by code
- Wall mount telephone
- Room darkening shades on all windows, and glass panels on doors
- Door locking hardware shall meet Greenwich Public Schools specifications and the GPS keying system
- Soft color, dimmable LED lighting

- Acoustical insulation for soundproofing
- ADA compliant building standards
- Wireless/internet access
- Multiple electrical outlets and USB charging outlets

Academic Core Programs approximately 31,077 sq. ft.

28 – 6th Grade, 7th Grade and 8th Grade classrooms, each approximately 800 sq. ft in size

For room layout: Student desks and chairs. Ample storage and access to technology, ultimately achieving one-to-one devices in each classroom. Students will have access to corridor lockers for their personal belongings.

Common to all classrooms:

- 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
- 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
- 24 2'X2' cubbies along one wall for student belongings
- Luxury vinyl tile/rubber high density flooring and base and vitreous painted walls with acoustic ceilings
- Parabolic LED lighting with variable light level switching.
- One (1) teacher computer, 22-inch display
- Wireless keyboard/mouse
- Aux HDMI input

6 - Science Classrooms (2 per grade level) 1,080 sq. ft. ea.

- Comfortable chairs/lab tables to accommodate up to twenty-four (24) students
- 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
- Electrical convenience power and USB charging outlets at lab stations
- 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
- 7 (seven) Lab stations, sinks, etc. includes one demonstration station
- 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 - Science Prep rooms, 160 sq. ft. each, shared between science rooms

- 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

1 - English Language Learners Classroom approximately 430 sq. ft.

- 1 teaching station: Teacher's desk, chair, 4 drawer file cabinet, lockable storage/wardrobe cabinet, lockable
- Space for 5-10 students
- Cabinets for secured storage and project display/storage for learning materials
- 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.

1 – Multi-Tiered System of Support (MTSS) Math Classroom approximately 430 sq. ft.

- 1 teaching station, Teacher's desk, chair, 4 drawer file cabinet, lockable storage/wardrobe cabinet, lockable
- Space for 5-10 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
- 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 - Positive Behavior Intervention & Support (PBIS) Room, approximately 240 sq. ft. with dedicated bathroom

- Teacher's desk, chair, 4 drawer file cabinet, lockable storage/wardrobe cabinet,
- lockable
- Space for 6-8 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
- 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 with Aux HDMI input

1- Student Lockers – 617 sq. ft.

- Provide up to 550 student lockers

Special Education 4,660 sq. ft.

1 - Life Skills Classroom – 700 sq. ft.

- Comfortable chairs/desks/tables to accommodate ten (10) to fifteen (15) students (flexible/adaptable/easily movable work stations)
- Appliances (Refrigerator, Stove, Sink, Microwave, Dishwasher, etc.)
- Teacher desk/chair
- Bookshelves
- Built-in counters with shelving below around perimeter of the Life Skills room
- Secured storage for materials
- Interactive LED Panel (at least 75")
- Wall/ceiling mounted speakers
- Luxury 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

- Cabinets for secured storage and project display/storage for learning materials
- parabolic LED lighting with variable light level switching

1 – Life Skills dedicated restroom – 100 sq. ft.

- Toilet room with sink

6 – Resource Rooms, 2 per grade at 430 sq. ft each

- Comfortable chairs/desks/tables to accommodate ten (10) to fifteen (15) 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
- Luxury 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 - 700 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
- Luxury vinyl enhanced tile flooring
- 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

1 - OT/PT Storage Room - 100 sq. ft.

- Lockable room
- Shelving
- Luxury vinyl enhanced tile

1 – Speech Language Room – 300 sq. ft.

- Comfortable chairs/desks/tables to accommodate five (5) (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
- Luxury 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 - Hearing/Vision Impaired Room – 180 sq. ft.

- Comfortable chairs/desks/tables to accommodate three (3) to five (5) 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
- Luxury 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

Administration and Support Services 1,824 sq. ft.

Administration offices, including, front office, staff work and meeting spaces with conference rooms

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. No less than 3 security panic buttons shall be linked to the Alertus E.N.S. System and the Alertus Touch Pads located in the main office for pre-set message activation. (Secure the Building, Weather Emergency, etc.). A dedicated 911 phone shall be located in the main office for the purpose of informing office staff if 911 is called from any facility phone. All exit/entry doors to have electronic hardware that will activate on notification from Alertus or striking of a panic button. Glazing will be minimal and secure.

2 – Administrative Assistant work stations – 100 sq. ft. ea.

- One (1) station for Head Monitor
- 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
- Bulletin boards
- Luxury vinyl enhanced tile or flooring
- One (1) computer per secretary/clerk
- Electronic security system

1 – Administrative Assistant/ID Check work station – 100 sq. ft.

- One (1) station for Head Monitor
- 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
- Bulletin boards
- Luxury vinyl enhanced tile or flooring
- One (1) computer per secretary/clerk
- Electronic security system

1 - Waiting area – 150 sq. ft.

- 4 comfortable chairs for visitors
- Luxury vinyl enhanced tile or flooring

1– Principal's Office– 180 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
- Luxury vinyl enhanced tile
- Magnetic whiteboard
- Bulletin board
- One (1) computer
- Aux ports for plugging into display

2 – Assistant each of the Principal's Offices - 180 sq. ft ea. They will be located remotely in grade level wings.

- 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
- Luxury vinyl enhanced tile or flooring
- Magnetic whiteboard
- Bulletin board
- One (1) computer
- Aux ports for plugging into display

1 – Vault for Personnel Records Storage – 80 sq. ft.

- 1 - Keypad access hardware
- 4 - Fireproof lockable file cabinets

1 – Administrative Assistant Workroom and Supply Storage - 150 sq. ft.

- Counter with cabinets below and shelving above
- Copier
- Work table
- Luxury vinyl enhanced tile or flooring

1- Conference room – 264 sq. ft.

- Conference table
- Seating for twelve (12)
- Credenza
- Interactive LED Panel (32-50" display)
- Aux ports for plugging into display
- Magnetic whiteboard
- Luxury vinyl enhanced tile or flooring
- Bulletin board

1- Mailroom - 100 sq. ft.

- Staff mailboxes
- Luxury vinyl enhanced tile or flooring

2 – Sensory Rooms – 120 sq. ft. ea. to be located near the Assistant Principals offices

- Soft seating
- bean bag chairs
- tactile wall murals/panels
- fiber optic lights
- mobile sensory cart
- bubble tubes
- flooring- padded or carpeted
- toys/fidgets

Counseling Center approximately 1,462 sq. ft.

1 – Administrative Assistant Workstation 100 sq. ft.

- Desk and chair
- Table
- Lockable storage wardrobes
- Network copier and fax machine
- Bulletin boards
- Luxury vinyl enhanced tile or flooring
- One (1) computer per secretary/clerk
- Electronic security system

1 – Waiting w/ Chairs 50 sq. ft.

- Seating area with chairs

1 – Student Workstation – 108 sq. ft.

- Desk and chair

- Table
- Bulletin boards
- Luxury vinyl enhanced tile or flooring
- One (1) computer

1 - Conference Room - 264 sq. ft.

- Conference table
- Seating for twelve (12)
- Credenza
- Interactive LED Panel (32-50" display)
- Aux ports for plugging into display
- Luxury vinyl enhanced tile or flooring
- Magnetic whiteboard
- Bulletin board

1 - Social Worker Office 140 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
- Luxury vinyl enhanced tile or flooring

1 - Teen Talk Office 140 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
- Luxury vinyl enhanced tile or flooring

3 - Counselors Offices at 140 sq. ft. ea. total 420 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
- Luxury vinyl enhanced tile or flooring

1 - Psychologist Office 140 sq. ft.

- Desk and chair
- 1 – 4-drawer lockable file cabinets
- 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
- Luxury vinyl enhanced tile or flooring

1 - Secure storage for Files, and Testing Materials, 50 sq. ft.

- Lockable room
- Shelving

1 - Counseling Center Copier/Supplies 50 sq. ft.

- Lockable room
- Shelving

Health Suite, approximately 845 sq. ft.

1 – School Nurse Office – 200 sq. ft.

- One (1) desk with chair
- One (1) computer
- Built-in counters with shelving below around perimeter of the room
- 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) Double-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
- Scale

1 – Health Suite waiting Chairs – 75 sq. ft.

- 3 chairs

1 – Health Suite Prep Area – 120 sq. ft.

- 3 chairs

1 - Cots (resting room) 150 sq. ft.

- 3 cots
- Luxury vinyl flooring

1 – Treatment/Isolation room - 150 sq. ft.

- Two (2) cots
- Privacy curtains

1 - Health Suite toilet room 100 sq. ft.

- Toilet
- Sink
- Ceramic tile walls and flooring

1 - Health equipment/Storage room 50 sq. ft.

- Sealed concrete floor

Library/Media Center of approximately 4,565 sq. ft

The Library/Media Center will be designed to become the learning hub of the school. It will continue to be where teachers encourage students to develop a passion for reading. This will also serve as a place where student-centered activities happen with the integration of technology. This area will welcoming and encourage students to be creative problem-solvers, take risks and think critically. Students will have the opportunity to engage in hands-on activities using various materials as well as the latest technology. The Library/Media specialist will collaborate with the classroom teachers on various projects and use this space to show students how to locate and evaluate important information.

1 - Stacks/Circulation – 1,340 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
- Areas with comfortable seating
- Printer
- Wall-to-wall carpeting
- Bulletin Boards to display student work and promotional materials
- Two (2) staff computers for the circulation desk area

1– Reading Zone Seating – 425 sq. ft.

- Minimum of one WAP and some supplemental data jacks located throughout for student access to LAN and internet
- Monitors throughout space.
- Area with comfortable seating
- Wall-to-wall carpeting
- Magnetic white boards and tack boards
- Two (2) staff computers for the circulation desk area

1 – Library Workstation 120 sq. ft.

- Desk and chair
- Table
- Lockable storage wardrobes
- Network copier and fax machine
- Bulletin boards
- Luxury vinyl enhanced tile or flooring
- One (1) computer per secretary/clerk
- Electronic security system

1 – Reading Intervention – 430 sq. ft.

- 1 teaching station, Teacher's desk, chair, 4 drawer file cabinet, lockable storage/wardrobe cabinet, lockable
- Space for 5-10 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
- 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
- 22-inch display
- Wireless keyboard/mouse
- Aux HDMI input

2 - Collaboration Classrooms – at 700 sq. ft. ea.

- 1 teaching station, Teacher's desk, chair, 4 drawer file cabinet, lockable
- storage/wardrobe cabinet, lockable
- Movable furniture for 24 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
- 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 - Media Production/Recording Room – 400 sq. ft.

- I00 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

1 - IT Workroom – 160 sq. ft.

- Cabinets and shelving for supplies
- Counter space for repair work
- Two (2) chairs
- Multiple outlets above countertop
- Luxury vinyl enhanced tile or flooring

1 - Multimedia Equipment Storage - 150 sq. ft.

- Cabinets with various shelving
- Lockable cabinets

1 - Media Team Office – 140 sq. ft.

- Desk and chair
- 1 – 4-drawer lockable file cabinets
- Base and wall cabinet storage
- Bulletin board
- Lockable storage wardrobe
- Network copier and fax machine
- One (1) computer
- Luxury vinyl enhanced tile or flooring

Music approximately 3,925 sq. ft.

All of the following spaces need to be designed for maximum sound attenuation

1 - Band Room with sink for instrument cleaning – 1,100 sq. ft.

- Fifty (50) performer chairs
- Fifty (50) music stands
- 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 – Orchestra Room 1,100 sq. ft.

- Fifty (50) performer chairs
- Fifty (50) music stands
- 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
- 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

2 – Instrument Storage Room, Band at 200 sq. ft. and Orchestra at 300 sq. ft.

- These storage rooms will need built-in shelving to accommodate an array of instruments, stringed, percussion and wind.

1 - Chorus Room approximately 1,100 sq. ft. tiered floor

- Fifty (50) performer chairs
- Fifty (50) 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
- Luxury vinyl enhanced tile or flooring
- Multiple magnetic whiteboards (wall-to-wall) on front and side walls
- One teacher computer, 22-inch display
- Bulletin boards One (1) wall mounted teacher computer
- Wireless keyboard/mouse
- Adjacent to auditorium/theater area

1 - Practice Room 50 sq. ft with a student chair and desk

1– Practice Room 75 sq. ft. with two student chairs and desks

Performing Arts Program 8,460 sq. ft.

1 - Auditorium with 1 - Regular Stage approximately 8,140 sq. ft.

Auditorium – 5,600 sq. ft.

The intention is to maximize the seating in the allowable space

- A minimum of a 540-seat auditorium for music rehearsal, performances and public assembly functions
- 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) – 2,540sq. ft.

- One hundred fifty (150) performer chairs (stackable/storable)
- One hundred fifty (150) music stands
- Stage should be accessible to all from auditorium
- Stage to accommodate 150 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 – 120 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 - 200 sq. ft.

- The storage area is to be outfitted with cabinets and shelving that will store props and costumes

Art Program – 1,640 sq. ft.

1 - Art Room approximately 1,240 sq. ft.

- Must have ample natural light
- Eight tables; Thirty-two (32) chairs
- Teacher desk/chair
- 4 drawer file cabinet, lockable, storage/wardrobe cabinet
- Vertical storage with shelves and doors
- 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
- 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 bottom storage cabinets and open shelving including deep and wide drawer shelving with suspension hardware
- 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 - Art Storage/Student Project Storage Room/Kiln with built-in shelving 400 sq. ft.

- Large Kiln
- Dedicated ventilation
- Electrical disconnect for Kiln
- Shelving should be wide and sturdy to support various art supplies
- Various sizes of cubbies to support student art projects
- Luxury vinyl enhanced tile or flooring

Career and Technical Education Approximately 4,050 sq. ft.

The Career and Technical Education programs are integral to the educational goals of the Central Middle School. Special consideration must be given when designing adjacencies of shared spaces such as classrooms and tech labs. The integration of these programs adjacent to the Media Center will enhance their effectiveness.

1 - Innovation space/3D printers/Computer/Robotics 1,100 sq. ft.

- Five (5) to six (6) tables for collaborative work (flexible/adaptable/easily movable work stations)
- Emergency electric “Kill Switch” and emergency shut-off buttons throughout
- Built-in Dust collection and Dust mitigation systems
- 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
- Eye wash and emergency showers where applicable
- 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 computer, 22-inch display
- Wireless keyboard/mouse
- Aux HDMI input
- Consider design that would allow instruction to be visible from hallway
- Adjacent to shared Media and Art Areas

1 – Wood Shop 1,100 sq. ft.

- Teacher desk/chair
- Emergency electric "Kill Switch" and emergency shut-off buttons throughout
- Built-in Dust collection and Dust mitigation systems
- 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
- In close proximity to garage door to outside for product and material transport
- One (1) teacher computer, 22-inch display
- Wireless keyboard/mouse
- Aux HDMI input

1 - Wood Shop Storage - 100 sq. ft.

- Racks for plywood and wood storage
- Cabinets and shelving for tool storage and materials supplies
- Luxury vinyl enhanced tile or flooring

1 – Dry Storage/Sewing Storage - 150 sq. ft.

- Cabinets and shelving for storage and materials supplies
- Luxury vinyl enhanced tile or flooring

1 - Family & Consumer Science Recitation Room 800 sq. ft.

- Teacher desk/chair
- Five (5) kitchen work stations with sinks, countertops, cabinets
- Stoves, dishwasher and microwave ovens, washer dryer
- Demo table with document camera, screen/monitor
- Cabinet storage for all food related utensils
- Built in cabinets/shelves to store totes of equipment and supplies
- 3 – 4- drawer Filing cabinets
- 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
- Multiple magnetic whiteboards (wall-to-wall)
- Bulletin boards lining the back wall
- One (1) teacher computer, 22inch display
- Wireless keyboard/mouse
- Aux HDMI input

1 – Cooking Lab 800 sq. ft.

- Teacher desk/chair
- Five (5) kitchen work stations with sinks, countertops, cabinets
- Stoves, dishwasher and microwave ovens, washer dryer
- Demo table with document camera, screen/monitor
- Cabinet storage for all food related utensils
- Built in cabinets/shelves to store totes of equipment and supplies
- 3 – 4- drawer Filing cabinets
- 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
- Multiple magnetic whiteboards (wall-to-wall)
- Bulletin boards lining the back wall
- One (1) teacher computer, 22inch display
- Wireless keyboard/mouse

- Aux HDMI input

Physical Education Approximately – 9,500 sq. ft.

1 - Gymnasium 6,600 sq. ft.

- All-purpose wood floor system with essential markings
- Removable protective matting
- One high school competition main basketball court (50'x84') Two cross- courts as well)
- Basketball backboards to be adjustable and swing out/up for non-use.
- Set up for Volley Ball with necessary inserts and markings
- 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
- 1 Digital messaging board

1 – Fitness Center approximately 800 sq. ft. with minimum 10' Ceilings

- Movable center acoustical partition
- Various exercise equipment
- Various weight lifting equipment
- Adjustable shelves
- Cabinets
- Wall peg storage
- Vinyl enhanced tile
- Multiple magnetic whiteboards (wall-to-wall)
- Interactive board
- Located in proximity to locker rooms

2 - Locker Rooms, 1 Boys and 1 Girls each, 550 sq. ft.

- Lockers
- Benches
- Restroom

2 – Physical Education Offices, approximately 120 sq. ft. each

- Teacher's desk, chair, 4 drawer file cabinet, lockable storage/wardrobe cabinet,
- Luxury vinyl enhanced tile or flooring

- One (1) teacher computer with 22-inch display
- Wireless keyboard/mouse
- Aux HDMI input

1 – Physical Education toilet room with shower 180 sq. ft.

- Toilet, sink and shower
- Ceramic/porcelain tile walls & flooring

1 - PE Storage allotment of 500 sq. ft.

- Sealed concrete floor
- Minimum 10-foot ceiling to maximize storage

1 – Laundry Area – 80 sq. ft.

- Washer/Dryer
- Refrigerator/Freezer

Student and Faculty Dining – 4,540 sq. ft.

1 - Cafeteria Student Dining Area approximately – 3,680 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. Placement of student restrooms in the vicinity of the cafeteria should be considered in the design to provide student convenience.

- The room should accommodate risers with handicapped accessibility
- Space to seat approximately 235 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 a Smart TV
- 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
- 2 microwave ovens for student use

1 - Faculty Dining Area, approximately – 680 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

1- Lactation room - 80 sq. ft.

- Table and chairs for up to Four (4) staff members
- Cabinets and countertop with sink
- Luxury vinyl enhanced tile or flooring

1 - Faculty Work Room 100 sq. ft.

- Located next to faculty dining room and equipped with supply storage cabinets, copier
- Luxury vinyl enhanced tile or flooring

Food Services – 2,130 sq. ft.

1 - Preparation Area: 1,240 sq. ft

- Two (2) - Double sink preparation tables each with one (1) standard faucet and one (1) pre-rinse faucet
- One (1) - Slicing machine
- Two (2) – Warmers
- One (1) - Buffalo chopper
- One (1) - Food processor
- One (1)- Small ice making machine
- One (1) - Upright blast chiller
- Two (2) - Double Deck Convection Ovens
- One (1) - Combi-Oven
- One (1) - Convection Steamer
- One (1) - 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
- Dishwasher/Tray station
- Recycling center for paper, liquids etc.

- Hot & Cold Food Station
- Deli Station
- 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
- Grease-trap to be located outside of the building for ease of maintenance

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 Storage Room – 240 sq. ft.

- Shelving designed to accommodate canned goods and various non-refrigerated food items.

1 – Non-Food Storage Room – 100 sq. ft

- Shelving to accommodate paper goods and related non-food items

1 - Dish Room – 200 sq. ft.

- Dish washer set up for washing of trays

1 – Walk-in Cooler – 80 sq. ft.

- Shelving for product storage
- Linked to building management system for notification of temperature failure
- Connected to emergency generator in case of power failure

1 - Walk-in Freezer – 80 sq. ft.

- Shelving for product storage
- Linked to building management system for notification of temperature failure
- Connected to emergency generator in case of power failure

1 - Kitchen Staff lavatory and lockers – 90 sq. ft.

- Toilet room with sink
- 8 lockers for personal items

1 - 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

Custodial Services – 680 sq. ft.

1 Staff work room/Lockers/Lunch room approximately 300 s. f.

Furniture & Equipment

- Workbench, vise, stool
- Compressed air system
- Refrigerator
- Microwave
- Table and chairs

Storage

- Steel storage shelves
- Lockable tool cabinets
- Wall-mounted tool hanging system

Utility Requirements

- Water spigot with hose rack
- Minimum of 100-amp electrical service

Safety Requirements

- PPE cabinet and first aid cabinet
- Combustible Storage container
- Meet all applicable OSHA workplace standards

Flooring

- Grease resistant epoxy finish over concrete

Boards

- Magnetic whiteboards
- Bulletin boards

Other Requirements

- Overhead rollup door
- Direct access to outside

1 - Custodial Office – approximately 250 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

1 – Custodial Toilet Rm. – 65 sq. ft.

- Toilet room with sink

1 – Custodial Lockers – 65 sq. ft.

- lockers for personal items

Building Services – 1,645 sq. ft.

1 – Lobby – 700 sq. ft.

1 – Equipment Storage – 350 sq. ft.

1 – Custodial Supply Storage – 200 sq. ft.

1 – Office Supply Storage – 200 sq. ft.

3– Seasonal Maintenance – 65 sq. ft. ea.

Building Systems

School security is a high priority concern and it is recommended that the design professionals selected for this project design the latest school safety measures in effect. They must meet the Connecticut school safety standards and it is advised that they include and utilize a school safety design professional as part of the overall architectural/engineering team.

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 Distech Controls as installed and maintained by Connecticut Temperatures Controls (**It is the district standard, No Exceptions)** The HVAC system shall include "BiPolar Needlepoint Ionization" as the standard. 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 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.

- 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.
- 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.
- 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. Exterior doors should have electronic contacts that activate video cameras. 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.
- Complete 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 is required. 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.
- A fully digital energy management system 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.
- A fully programmable clock and bell system (basis of design Ever Alert) 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)

- There is to be a lighting plan to promote an optimal learning environment. Lighting should be designed with motion sensors and dimmable 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.
- Interior surfaces, carpeting, and related interior finishes should be used that are easy to maintain.
- Main assembly areas such as the Auditorium and Gymnasium are to be designed to provide ample access and egress for the public with adequate restroom facilities and be capable of securely separating the public areas from the educational program areas during events outside of school hours.

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 areas.

Site Development

The intention is to utilize the existing site for the new school, this is not without its challenges. First and foremost, will be developing a plan that allows for the construction of the new facility to occur with the least amount of disruption to the program and schedule of the existing school, including the second phase when the old school is razed and the area is repurposed for athletic fields, parking etc.

Siting of the new facility will be extremely important, currently the school is located in a residential neighborhood and traffic issues exist. Designing of the new facility must take into account ways to mitigate some of the existing traffic issues and not create new ones.

Also, the existing athletic fields are compromised due to poor drainage which marginalizes the use of the fields seasonally. 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. At a minimum the school will have 4 tennis courts,1 regulation softball field, 1 regulation baseball field, 1 regulation soccer field, which if needed, may overlap the outfields of the softball and baseball fields.

Parking, at a minimum, will need to meet the zoning regulations for the town of Greenwich. However, every effort should be made to maximize parking for staff, parents and visitors. Central Middle School has a robust and active program with multiple events occurring throughout the year, it is imperative that design professionals provide ample parking to support these programs.

The site shall provide separate traffic flows for school busses and parent/student drop-off.

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 and an electronic marquee for school notifications. 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. The design professionals should provide energy models with their conceptual design that will estimate the costs and benefits of various energy saving options. Long term sustainable energy, such as solar panels should be incorporated in the design to lower annual operating costs and contribute to a cleaner environment. Design professionals should conduct an investigative study to determine if geothermal energy is a feasible alternative. Greenwich has an active sustainability committee and it is recommended that the design professionals consult with them regarding ideas on how to make the new Middle School a truly 21st Century facility.

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 Central Middle School
Projected Enrollment: 660 Students

Academic Classrooms			
Academic Core Classrooms	28	800	22,400
General Science Classroom/Lab	6	1,080	6,480
Science Prep Workroom (Shared)	3	160	480
ELL Classroom	1	430	430
MTSS Math Classroom	1	430	430
PBIS Room	1	240	240
Student Lockers	1	617	617
Total	**41**		**31,077**
Special Education Programs			
Life Skills Classroom	1	700	700
Life Skills bathroom	1	100	100
Resource Rooms (2 per grade)	6	430	2.580
OT/PT Room	1	700	700
OT/PT Storage Room	1	100	100
Speech, Language Room	1	300	300
Hearing/Vision impaired Room	1	180	180
Total	**12**		**4,660**

Administration & Support Services			
Administrative Assistant work stations	2	100	200
Administrative Assistant/ID Check work station	1	100	100
Waiting Area	1	150	150
Principal's Office	1	180	180
Assistant Principal Offices/ Remote location	2	180	360
Vault for Personnel Records	1	80	80
Administrative Assistant work room & Supply Storage	1	150	150
Conference Room	1	264	264
Mailroom	1	100	100
Sensory Rooms to be located near the Assistant Principals offices	2	120	240
Total	**13**		**1,824**
Counseling Center			
Admin. Asst. Workstation	1	100	100
Waiting Chairs	1	50	50
Student Workstations	1	108	108
Conference Rm	1	264	264
Social Worker Office	1	140	140
Teen Talk Office	1	140	140
Counselor Offices	3	140	420
Psychologist Office	1	140	140
Secure storage for files and Testing Materials	1	50	50
Counseling Center Copier/Supplies	1	50	50
Total	**12**		**1,462**

Health Suite			
School Nurse Office	1	200	200
Health Suite Waiting Chairs	1	75	75
Health Suite Prep Area	1	120	120
Resting Room (cots)	1	150	150
Treatment Isolation Room	1	150	150
Health Suite Toilet Room	1	100	100
Health Department/Supplies Storage	1	50	50
Total	**7**		**845**
Media Center			
Stacks/Circulation	1	1,340	1,340
Reading Zone Seating	1	425	425
Library Workstation	1	120	120
Reading Intervention	1	430	430
Collaboration Classrooms	2	700	1,400
Production/Recording room	1	400	400
IT Work Room	1	160	160
Multimedia Equipment Storage	1	150	150
Media Team Office	1	140	140
Total	**10**		**4,565**
Music Programs			
Band Room with sink	1	1,100	1,100
Orchestra Room (Strings)	1	1,100	1,100
Band Instrument Storage	1	200	200
Orchestra Storage	1	300	300
Chorus Room	1	1,100	1,100
Practice Rooms	1	50	50
Practice Rooms	1	75	75
Total	**7**		**3,925**

Performing Arts Programs			
Auditorium	1	5,600	5,600
Stage and Wing Space	1	2,540	2,540
Control Room (Auditorium)	1	120	120
Storage	1	200	200
Total	**4**		**8,460**
Art Programs			
Art Room	1	1,240	1,240
Art Storage/Student Project Storage Room/Kiln	1	400	400
Total	**2**		**1,640**
Career & Technical Education Programs			
Innovation Space/3D Printing/Computer/Robotics	1	1,100	1,100
Wood Shop	1	1,100	1,100
Wood Shop Storage (open)	1	100	100
Dry Storage/Sewing Storage	1	150	150
Family and Consumer Science Room-Recitation Rm.	1	800	800
Cooking Lab	1	800	800
Total	**6**		**4,050**
Physical Education Programs			
Large Gym	1	6,600	6,600
Fitness Center with acoustic wall divider	1	800	800
Boys Locker Room with Restroom	1	550	550
Girls Locker Room with Restroom	1	550	550
PE Offices	2	120	240
Teacher Toilet/Shower Room	1	180	180
PE Storage	1	500	500
Laundry area/ with Refrigerator	1	80	80
Total	**9**		**9,500**

Student & Faculty Dining Services			
Student Dining	1	3,680	3,680
Staff Dining Lounge ~~includes lactation room~~	1	680	680
Lactation room	1	80	80
Faculty Work Room	1	100	100
Total	**4**		**4,540**
Food Services			
Kitchen: Preparation Area	1	1,240	1,240
Dry Food Storage	1	240	240
Non-Food Storage	1	100	100
Dish Room	1	200	200
Walk-in Cooler	1	80	80
Walk-in Freezer	1	80	80
Staff Lavatory /Lockers	1	90	90
Dietician Office – Director	1	100	100
Total	**8**		**2,130**
Custodial Services			
Staff Workroom /Lockers/Lunch Room	1	300	300
Custodial Office & Breakroom	1	250	250
Custodial Toilet Room	1	65	65
Custodial Staff Lockers	1	65	65
Total	**4**		**680**
Building Services (Core Factor)			
Lobby	1	700	700
Equipment Storage	1	350	350
Custodial Supplies Storage	1	200	200
Office Supplies Storage	1	200	200
Seasonal Maintenance Closets	3	65	195
Circulation			43,617

Total Building Core/Circulation			**43,617**
Total Program Area			**81,003**
Total Building Area			**124,620**