

# New Fairfield High School Educational Specifications

Grade Nine to Grade Twelve



New Fairfield Public Schools  
New Fairfield, CT

June 2019



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## Section I: Rationale for Project

### Overview of Building and Site

New Fairfield High School is a four-year comprehensive high school that was built in 1972 on a 145.5 acre site off Gillotti Road in New Fairfield, Connecticut. The building sits on a sloping site and has been designed with three levels of educational program space nestled into the slope. Additionally, there are basement areas that primarily house the building's mechanical, electrical, plumbing and fire protection systems. There have been several additions and renovation projects at the school in the 1993 and 2010's, and the total gross building area of the facility now stands at approximately 165,000 square feet given some shared space with New Fairfield Middle School. The 1993 addition at the high school site was part of a new middle school addition. The past building projects have mainly focused on aesthetic and program related improvements and have not addressed infrastructure needs that are now resulting in building system failures at the physical plant.

New Fairfield High School building includes general classrooms, technology education laboratories, science classroom/laboratories, a media center, an auditorium and an extensive physical education/interscholastic area complete with an indoor swimming/diving facility and a multi-use "field-turf" playing surface at football field. Lights have been installed at this complex for evening events. New Fairfield High School is fully accredited by the Commission on Public Secondary Schools (CPSS) for the New England Association of Schools and Colleges (NEASC). However, its accreditation status is currently under review. The accrediting agency recently sent a visiting team to New Fairfield High School. In preparation for the visiting committee, the staff at New Fairfield High School prepared a self-study document examining the level of adherence to the Standards for Accreditation. Through the self-study process, it has become evident that facilities at New Fairfield High School do not, in all instances, support the curriculum for implementation as it was originally designed. Although the building has been well maintained in its 47 year existence, several components of the buildings infrastructure have begun to fail and/or are at the end of their projected useful life. In the past several years, several infrastructure elements at New Fairfield High School have failed. There have been several wiring malfunctions to the fire alarm system which have been temporarily addressed but which need a complete overhaul. Electrical and plumbing issues are constantly addressed on a short-term basis but need a long-term solution. The State Department of Education Civil Rights Compliance Review team has cited New Fairfield High School for non-compliance in a number of specific areas. Although efforts have been made by the district to address the cited areas, the efforts have fallen short of full compliance. A major building project would be necessary to fully satisfy the ADA issues identified through the recent Civil Rights Compliance Review.

Recognizing the fact that the physical plant at New Fairfield High School has served the community well for the past 47 years, and understanding the safety concerns, infrastructure needs and the impact on educational curriculum, the Board of Education retained the architectural firm of QA+M Architecture to review and update a facility study and develop a range of design concepts based on educational specifications. The design concepts would evaluate scenarios that considered program needs, facility conditions, building, fire and life safety codes, accessibility violations, construction phasing and the estimated cost to the Town of New Fairfield. The options studied ranged from simple renovations and code updates, to a fully renovated facility with additions, as well as a new facility.

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### **Existing Conditions**

New Fairfield High School was designed in 1971 and construction started in 1972. The original building was approximately 180,000 SF and included academic classrooms, an auditorium, a gymnasium, cafeteria and kitchen and other support spaces. The project was contracted as a maximum not-to-exceed construction project and included the building, site as well as furniture, furnishings and equipment for \$4,200,000. The construction project was challenged from the very start and there are several reports that document some of the deficiencies of the original construction. In 1993, a middle school was added to the campus and a new cafeteria space was built for the high school. Over the years, there have been several small projects at the high school including a roof replacement in 2000 and culinary center in 2018. The science classrooms were renovated with the 2010 renovation project, however, based on the existing facility constraints, natural light could not be accommodated and the HVAC system was minimally updated. As is evident by the existing conditions reports, many of the infrastructure and structural issues have not been addressed since the original project. Some of the major infrastructure and building concerns are:

### **SITE:**

1. Parking & vehicular circulation
2. Accessibility
3. Utilities – Water / Well System
4. Septic System – Needs update
5. Site security - Need to meet standards

### **BUILDING:**

6. Energy efficiency – Electric Heat
7. Interior Partitions – Acoustical separation
8. Auditorium – Accessibility, Acoustics, MEP Systems
9. Pool – Aged systems and poor ventilation and dehumidification
10. Interior & Exterior finishes – Aged and failing
11. Kitchen & Seryery – ADA compliance
12. Elevator – ADA / Accessibility
13. Building Security – Need to meet standards
14. Natural Light – Very limited
15. Program Space for collaboration and conferences is limited
16. Groundwater infiltration / Flooding at lower levels
17. HAZMAT – PCB and Asbestos abatement needed
18. Structure – Concerns based on original report. Non-seismic design
19. Building Envelope – Poor condition (Tilt Wall Construction)
20. Windows – Need replacement

### **MEP (MECHANICAL, ELECTRICAL, PLUMBING) SYSTEMS:**

21. Limited sprinkler system
22. HVAC and Electrical Systems – At end of life (1972)
23. Fire Alarm non-compliant / non-addressable
24. Technology & Communications – Needs updating



## Section II: District Vision, Mission, and Core Values



### *New Fairfield Public Schools Community*

#### **Our Vision**

To create self-motivated, critical thinkers who demonstrate empathy and creativity, take risks, and persevere through challenges to become successful and productive citizens.

#### **Our Mission**

To engage students, staff, and the community in a partnership to provide a collaborative, innovative, encouraging and safe environment where all members take an active role in supporting each other's learning while also helping students pursue their own passions.

#### **Core Values**

*Teaching and Learning are more successful when...*

##### *All Stakeholders...*

- Collaborate to shape the future of each school.
- Cultivate positive relationships to support student growth.
- Demonstrate empathy and kindness, accept others' differences, and listen with understanding.
- Communicate with clarity and purpose individually or collaboratively, and publicly.

##### *All Students...*

- Invest in their personal growth, are accepted and valued by others, and are empowered to make decisions.
- Engage in authentic experiences across content areas that extend beyond the walls of the classroom in order to participate as responsible members in the local, national, and global community.
- Demonstrate a commitment to learning.
- Practice healthy behaviors that promote wellness and fitness.

##### *All Educators...*

- Create clear learning goals based on success criteria and provide feedback with targeted interventions.
- Base instruction on specific student needs, interests, strengths, and ways of learning.
- Collaborate, examine student work, and collectively address the academic, social, and emotional needs of all learners.
- Develop opportunities for classroom discussion and problem solving.
- Reflect and strive to improve their practice.
- Pursue opportunities for personal growth in meeting professional standards.



*NFHS Mission and Core Values & Beliefs Statement*

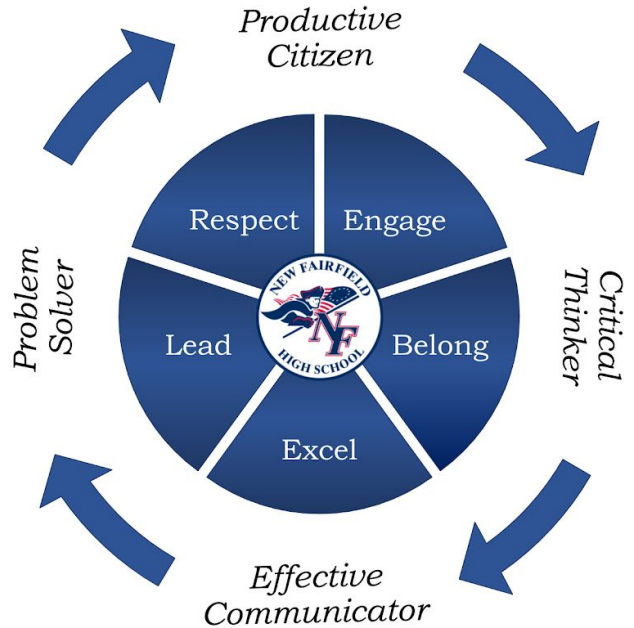
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### MISSION STATEMENT

New Fairfield High School strives to provide a safe educational environment in which students *respect* the right for all to become *engaged* learners and responsible citizens who *belong, excel* and *lead* within a diverse society and changing world.

### CORE VALUES & BELIEFS STATEMENT

New Fairfield High School is committed to all students achieving high academic standards and personal wellness, enabling continuous growth through authentic, flexible pathways. By prioritizing connectedness and compassion, we empower all members of our learning community to take ownership of our individual and collective development as we foster the *Attributes of the Graduate*.





### Section III: Long Range Educational Plan

#### Key Planning & Design Concept

The reorganization of New Fairfield High School is based on a planning concept that focuses educational goals established by the Board of Education and improving the educational and space utilization of the existing facility. The design approach focuses on the following imperatives:

#### SITE

- Separation of the student, parent and bus traffic and points of entry to the building.
- Increased parking and improved vehicular and pedestrian circulation to allow for the middle school and high school to have the same start time.
- A clearly identified community entrance.
- A facility that is accessible to all individuals with disabilities.
- Compliance with School Security Standards

#### BUILDING

- Separation of the academic and community use spaces.
- Space adjacencies that enhance / improve intra- and interdepartmental communications and teacher collaboration.
- Simplification of internal building circulation.
- Given the challenges of a multi-level building, develop design concepts that consolidate academic departments
- Improve the efficiency of the existing space utilization and provide flexibility of instructional spaces.
- Reorganize and develop academic programs around 21<sup>st</sup> Century educational pedagogy.
- Implement safety and security measures throughout the facility.
- Develop a ubiquitous technology environment.
- Develop a plan that optimizes energy savings and infuses sustainable design principles in all aspects of the facility.
- Develop the building as an educational tool that incorporates the building infrastructure, energy management systems and sustainable design principles into the curriculum.

#### Concepts Considered

Although several design concepts were evaluated for program adequacy and cost, each design was based on one of the following options:

- i. Limited Renovations
- ii. Full Renovations under the “Renovate as New” Status with the State Department of Administrative Services.
- iii. Full Renovations and Additions under the “Renovate as New” Status with the State Department of Administrative Services.
- iv. New Facility on the Existing Site

**The Limited Renovations approach** included a design that was developed around additions and renovation that resolved program deficiencies in specific program areas. The main emphasis for renovation/additions was placed on improving the program areas with outdated and/or inadequate facilities that needed improvement were Music, Technology Education, Media Center, Art, School Counseling and Physical Education. During the review and programming process which took place with all the NFHS departments,



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additional program deficiencies came to light. It was soon apparent that a limited renovation and addition approach would not meet the goals of the educational specifications and the priorities established for the project without a more significant construction project. The building infrastructure, especially the Mechanical, Electrical and Plumbing systems are in very poor condition. Although there is greater flexibility on a limited renovation project, when it comes to replacement of building systems, the State Department of Administrative Services reimbursement for a limited scope project is much lower compared to other options, resulting in cost differentials that are minimal.

**The Full Renovations** project under the “Renovate as New” status was evaluated to identify the potential cost of a project that would incorporate all educational program needs and include a complete facility update. Under this scenario, all building systems would be replaced and the facility would be brought into compliance with the latest building, fire, ADA and life safety codes. This approach included the evaluation of several design options with emphasis on all the key educational program areas. The greatest challenge with this approach is the abatement of hazmat and the replacement of the building systems. The construction in this approach would be phased and would have significant impact on teaching and learning. Additionally, a recent meeting with the State Office of School Construction Grants and Review concluded that a grant for a full renovation project would not be approved and therefore not qualify for state reimbursement due to the condition of the existing building and site.

**The Full Renovations and Additions** project under the “Renovate as New” Status was evaluated to identify the potential cost of a project that would incorporate all educational program needs and include a complete facility update. Under this scenario all building systems would be replaced and the facility would be brought into compliance with the latest building, fire, ADA and life safety codes. This approach included the evaluation of several design options with emphasis on all the key educational program areas. The following is a partial list of options evaluated:

1. A new auditorium and music spaces as well as redesigned physical education spaces.
2. Relocation of the administrative functions to an addition in the front of the building.
3. Second level expansion for the science and academic programs.

The solution will meet many educational program requirements through the addition. The greatest challenge with this approach is the abatement of hazmat, the replacement of the building systems, and space standards. The construction in this approach would be phased and would have significant impact on teaching and learning. Project cost and schedule delays based on the history of the original construction of the high school must be anticipated. This approach should maximize reimbursement from the State Department of Administrative Services. However, a recent meeting with State Office of School Construction Grants and Review concluded that a grant for a full renovation with partial replacement would not be approved and therefore not qualify for state reimbursement due to the condition of the existing building and site.

**New Facility** - The QA+M team conducted a preliminary evaluation of a new facility on the existing site and identified the following item that would be considered in making a decision to construct a new facility:

1. Construction of a new facility will be minimally invasive to the educational programs at New Fairfield High School. The programs that would be most significantly impacted will be physical education and athletics, as the new facility will need to be located on the existing practice fields. The new facility would be right sized to accommodate the declining student population and would be completed in under two years. Based on recent legislation, the reimbursement rate for a new facility is





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approximately 10% lower. However, a reimbursement reduction waiver could be reviewed with the State Department of Administrative Services.

2. There is adequate space on the site to locate the new building.
3. Space standards waivers if necessary would be minimal as the building would be appropriately sized for the projected enrollment.
4. The new facility construction project would have a minimal impact on education.
5. Unforeseen conditions that adversely impact budgets and delay projects will be minimized.

## **Recommendation**

Based on the design team's evaluation of the four scenarios, the design options developed for New Fairfield High School in concert with the school administration and town leaders, and feedback from the Office of School Construction Grants and Review, the option to build a new facility on the campus of the current high school is recommended.



## **Section IV: Enrollment Data and Proposed Project Capacity**

### **Enrollment Projections**

Each year the administration updates student enrollment projections for the New Fairfield Public Schools by grade, and by grade combinations from Kindergarten through Grade 12. These enrollment projections are used during the budget development process to anticipate future staffing needs as well as materials, equipment, and/or furniture needs associated with increases or decreases in projected enrollments.

The enrollment in the New Fairfield Public Schools peaked in 2008 and declined to 2,171 students in 2018. During the next eight years, the decline in enrollment will continue. The State Department of Administrative Services requires enrollment projections indicating the highest 8 year projected enrollment starting in October of the year the project application is submitted. Based on the proposed project for New Fairfield High School, enrollment projections would be required for October 2019 through October 2027.

The following information was obtained from the enrollment project provided by Donald G. Kennedy, Ed.D., Demographic Specialist of NESDEC on October 25, 2018. Based on the enrollment projections by Donald G. Kennedy Ed.D. the enrollment at New Fairfield High School is as follows:

The enrollment at the high school peaked in 2008-2009 and has been declining with a low of 613 students projected in 2026-2027. Based on this projection the student enrollment of 716 (2019-2020) will be utilized for the Department of Administrative Services Grant application and the space standards calculations for New Fairfield High School.

### **Enrollment Projections and Space Standards**

The State of Connecticut Department of Administrative Services provides grants for school construction projects to all public-school systems. The eligibility of a school project for State funding is governed by the Connecticut General Statutes (CGS) and the grant application is administered by the State Department of Administrative Services Office of School Construction Grants and Review Division. Each municipality must apply for the grant by June 30th of each year and the funding is approved the following year. The Town of New Fairfield has applied for and received several school construction grants over the years and specifically was funded for the last construction project that included renovations and code updates.

In considering the renovations and additions or new facility project at New Fairfield High School for state reimbursement, several regulations must be evaluated. These include laws that will determine the project eligibility, priority and estimated percentage of the project cost that is for the state grant. Additionally, the Town of New Fairfield must meet the requirement of the Office of School Construction Grants & Review and ultimately an audit of the project. Regulations concerning school construction grants can be reviewed in the Connecticut General Statutes Section 10-287 c-J to 10-287 c-2J.

The first step in this process will be a meeting with representatives from the State Department of Administrative Services to review a waiver request for a partial or complete waiver of the space standards. This waiver request will be filed with the Commissioner of Department of Administrative Services. This waiver would be based on the inherent inefficiencies of the existing building design and changes in the program/ curricular requirements in education that have impacted the physical plant. If additional eligible area is approved by the State Department of Administrative Services, the Town of New Fairfield will receive



greater reimbursement, with the potential of receiving the full percentage assigned to the Town if a full waiver of space standards is approved.

**SPACE STANDARDS** - For grant purposes, a maximum allowable square footage per pupil is determined for a facility. This maximum is based upon the projected enrollment for the project, grades housed at the school and the amount at square footage, if any, constructed prior to 1950. See C.G.S. 10-287c-] S(a)

Space standards do not apply to the following, projects solely for creation of code or health violations, roof replacements, vocational agriculture equipment projects, board of education central administration projects, and projects solely for purchase. In actual construction, districts are not limited to the maximum allowable square footage per pupil. However, grant reimbursement is reduced to reflect the degree by which a school exceeds the maximum allowable square footage.

**SAMPLE SPACE STANDARDS CALCULATIONS** - For grant computation purposes, the grade range and projected enrollment for a project are applied to the allowable square footage table to calculate a maximum allowable square footage per pupil. The maximum allowable square footage per pupil is compared to the actual square footage per pupil if the resulting ratio is less than one, the building is oversized for grant computation purposes. Therefore, the ratio is applied to all protect costs (except site and building purchase costs), and there is a corresponding grant reduction.

Based on the Space Standards Worksheet the allowable area per student is 186.5 SF. With the projected highest enrollment at 716 students based on the 2019-2020 school year the maximum allowable area for New Fairfield High School is 133,940 Net SF. which is approximately 138,000 Gross SF of building area. The existing building based on shared facilities for the natatorium, kitchen and auditorium programs is 164,800 SF.



## Section V: Learning / Educational Activities

### Educational Specification Committee – Process

The committee of educators gathered relevant information including current demographic reports and various constituents' input, explored current and future technologies. The committee worked with the Board of Education in developing the educational specifications and evaluated several scenarios including the potential of building a new facility. During this process, the committee adhered to the following parameters:

- Acknowledgment of the current enrollment projections.
- Maintenance of a department structure with a move to combined departmental offices, where possible.
- Focus on the use of the building for upper secondary education.
- Maintenance of class size under the district guidelines.
- Maintenance of current course offerings with adjustments for curriculum review.
- Gathering of constituents' input.
- Assurance that the building is ready for increased technology.
- Provision for flexibility in room usage.
- Provision for intermediate-sized group spaces.
- Provision for attractive and welcoming aesthetics.
- Provision for energy efficiency and high indoor air quality.
- Addressing all building and life safety codes, ADA and Civil Rights Compliance Review concerns.

### Priorities

Based on the priorities established by the Town of New Fairfield and New Fairfield Public Schools leadership, QA+M Architecture approached the New Fairfield High School project by creating three primary focus areas. The first focus area was energy management, the second was accessibility citations identified throughout the building and grounds by the State Department of Education, and the third being that the facilities should support 21<sup>st</sup> century educational programming and curriculum. These priorities became the baseline for the evaluation of all design concepts.

1. The energy management area includes a complete evaluation of all existing mechanical and electrical systems with the goal of meeting the State requirements for high performance buildings. The Engineers spent numerous hours reviewing existing reports and analyzing all existing components to determine the needs of the facility. Based on the analysis and research it was determined that a complete replacement of the existing heating system would be the best solution for the facility. Additionally, a central air conditioning system that would replace all the partial systems would also be included as part of a project. The energy management analysis also included an evaluation of alternative energy systems. The team will explore several options for possible integration into the project. The selection of the systems would be based on available grants and overall feasibility for the facility. At this time, several options still remain open for discussion. This includes, use of a photovoltaic system due to some significant incentives available for the project, geothermal systems based on significant advancement in the technology and co-generation, based on the short payback. A final decision on the systems will be made at the design development phase of the project. Additionally, the design team incorporated reusable energy and sustainable design into the school to allow student access to the technology, with the ability to integrate the systems into the science and technology curriculum. Other elements to be included into the proposed scope of work for energy management would be complete window and roof replacement, with the potential integration solar electric system into the building envelope.



2. The second focus area is specific to the Civil Rights Compliance Review and ADA standards. The scope of this priority includes the entire New Fairfield High School building and site. Concerns to be addressed on the site will include handicapped accessible parking, walkways and drop-off areas around the site as well as accessible routes to the various fields, bleachers and site elements/improvements. Within the building, all programs will require compliance with accessibility codes based on ADA, UFAS, ANSI and regulatory building codes. The design team's evaluation and recommendation is that all ADA and code issues must be addressed through any renovation and/or new construction project.
  
3. The third and perhaps the most significant focus area is the evaluation of the educational curriculum and program needs for New Fairfield High School. The QA+M team held meetings with the heads of all departments, school administrators and facilities staff, and worked with the NFHS educational specification committee to develop the educational specification and space needs program. The program information, along with the facility study documents, has been used to generate various design approaches and concepts that address all the educational program requirements at New Fairfield High School. The design process also considered the following planning concepts integral to the design of educational facilities:
  - Energy Conservation and Sustainable Design
  - Codes – Building, Fire/Life Safety, ADA
  - Technology
  - Security & Safety
  - Furniture Furnishing and Equipment
  - Community Use
  - Flexibility & Agility
  - Student Display
  - Site Analysis/Evaluation
  - Land Use Requirements
  - Site Selection
  - Site Circulation
  - Concept designs
  - Construction Phasing
  - Project and Construction Schedule

Based on the educational specifications, the key educational program elements that need to be addressed in the new facility for New Fairfield High School are identified in the following program summary.

### **Overall Educational Program Concept**

New Fairfield High School will be designed with an emphasis on core academic spaces with a concept that focuses around the consolidation and redesign of all the academic, community and support spaces.

Facilitate 21st century learning with facilities that support the curriculum and includes modern technology, infrastructure, and choice.

Improve accessibility throughout the school.

Develop an agile and flexible learning environment with FFE that supports multiple learning styles.

Provide small group instructional and breakout spaces for collaborative work throughout the building.

Showcase student interests and work throughout the building.

Improve energy efficiency and implement sustainable principles throughout the facility.

Increased participation in community service, work experience and extended learning programs.



Support students in attending competitive colleges and post-secondary vocational programs.  
Enhance community access to all assembly and athletic spaces.

- b. **The English and Social Studies Departments** must include classrooms that are designed as flexible spaces for large and small group instruction. All classrooms must provide adequate furniture, fixtures, and equipment (FFE) to support the independent reading program as well as reading and writing conferencing. All program spaces must meet current codes and safety regulations, and include technology infrastructure to support voice, video and data systems; equipment and furnishings. Departmental space should be contiguous. A shared office/work room with the world language department will promote collaboration and also must include a bookroom, storage space, and small group instructional rooms for conferencing or tutoring.
- c. **The Mathematics Department** must include classrooms with the design of flexible space for large and small group instructional areas including breakout spaces for intervention. All program spaces must meet current codes and safety regulations, and include technology infrastructure to support voice, video and data systems; equipment and furnishings. The department's space should be contiguous. A shared office/work room with the science department will promote collaboration and also must include a bookroom, storage space, and small group instructional rooms for conferencing or tutoring.
- d. **The Science Department** must include appropriately sized "Clabrooms" combined classroom & laboratory space, adjoining preparatory and storage rooms, imbedded technology, and a greenhouse. Clabrooms must include FFE specific to the unique disciplines within the science department of Biology, Chemistry, and Physics as well as elective programs. All program spaces must meet current codes and safety regulations. The department space should be contiguous and include a shared office/work room with the mathematics department. A shared office/work room with the mathematics department will promote collaboration and also must include a bookroom, storage space, and small group instructional rooms for conferencing or tutoring.
- e. **The World Language Department** must include additional classroom space with flexible for large and small group instructional areas to support all forms of language acquisition (reading, writing, speaking, listening). All program spaces must meet current codes and safety regulations, and include technology infrastructure to support voice, video and data systems; equipment and furnishings. A language laboratory based on digital systems must be provided. The department's space should be contiguous. A shared office/work room with the English and social studies departments will promote collaboration and also must include a bookroom, storage space, and small group instructional rooms for conferencing or tutoring.
- f. **The Special Education Department** must provide a combination of small and large group instructional rooms and resource classrooms that promote inclusion. All program spaces must meet current codes and safety regulations, and include technology infrastructure to support voice, video and data systems; equipment and furnishings. The design of the special education spaces should provide sensory friendly lighting and acoustics that would be beneficial for all students. A classroom should be provided with adequate FFE to support instruction in the activities of daily living. The department's space should be contiguous with office and program space for related service providers such as speech, occupational therapy, and physical therapy. A office/work room with conference space will promote collaboration





among all departments and also must include storage space for teachers and paraprofessionals.

- g. **The Music Department** must include specialized spaces and FFE that accommodate the unique needs of band, chorus, and orchestra with proper acoustics. Rehearsal rooms must be adequate in size and there is a significant need for practice instrument storage, general storage and other support spaces. A shared classroom space for music theory is also required. All program spaces must meet current codes and safety regulations, and include technology infrastructure to support voice, video and data systems; equipment and furnishings. The department's space should be contiguous with the auditorium. A recording studio that supports audio and video recording could be shared or situated near the learning commons.
- h. **The Art Department** was renovated to address many concern, however there are still some concerns over appropriate space for storage, the kiln and support space for display within the studios and a student gallery. Additional space is needed for the graphics program and lectures. By relocating the department to the Technology Education area, the graphics, lecture and display can be shared to create greater efficiency on the use of program space. All program spaces must meet current codes and safety regulations, and include technology infrastructure to support voice, video and data systems; equipment and furnishings. The department's spaces should be contiguous.
- i. **The Technology Education Department** is currently housed in space that was designed to be the "Shop" in earlier educational models. The organizing and interior finish is inappropriate for today's technology education curriculum. By reorganizing the existing space, the program can be consolidated to provide a technology rich high-tech environment that is geared towards the digital age while providing the hands-on environments in the construction, robotic and engineering labs. By sharing spaces with art and supporting the performing arts/theater programs the technology education program is an integral part of the academic program. All program spaces must meet current codes and safety regulations, and include technology infrastructure to support voice, video and data systems; equipment and furnishings. The department's spaces should be contiguous.
- j. **The Business Department** must be flexible space for large and small group instruction. The business classrooms must provide appropriate FFE to support personal finance, investment management, video conferencing around the globe, and marketing presentations. All program spaces must meet current codes and safety regulations, and include technology infrastructure to support voice, video and data systems; equipment and furnishings. The department's space should be contiguous and include a shared office/work room and storage space.
- k. **The Family and Consumer Science Department** must be provide a culinary kitchen with multiple workstations including the appropriate support equipment and storage. A shared cafe and instructional space must be located adjacent to the culinary kitchen. Child Development must provide planning space for high school students while also serving as a Pre-K. It should have a separate entrance/pick-up point and an environment inclusive of playful colors and FFE appropriate for the age group. Interior and Fashion Design must include specialized classrooms with appropriate FFE for clothing construction, fitting, and modeling. All program spaces must meet current codes and safety regulations, and include technology infrastructure to support voice, video and data systems; equipment and furnishings. The department's space should be contiguous and include storage space.





- l. **The Auditorium** is a crucial component of the high school. The auditorium supports every department of the school and is a true multi-functional space. The auditorium / theater will be a multi-purpose performance space that will accommodate programs that range from public speaking and presentation, to music recitals, dance and theatrical performances. The auditorium is to be designed to accommodate large school gatherings as well as performances for smaller audiences. Musical performances will include the band, the concert choir, strings students and must support district-wide band, choir, and strings concerts. The auditorium can also be the venue for community groups and co-curricular clubs. The auditorium must meet current codes and safety regulations, and include technology infrastructure to support voice, video and data systems; equipment and furnishings. Technology for large format display and recording of events should also be incorporated into the design. The auditorium should be located adjacent to parking with a lobby/pre-function space and community access. Concession and box office should be provided.
- m. **The Learning Commons** should be the hub of the high school and contribute to the academic success of students. The space must incorporate technology with multiple charging stations, provide structured and informal seating areas with various furniture options, quiet and small group study rooms, and be an inviting space with abundant natural light that encourages student interaction, research, and learning. Flexible FFE is essential to allow for continual reorganization of the learning environment and allow for multiclass use and access to available resources. The Learning Commons must also include a makerspace and technology for large format display. The Learning Commons should also serve as a community space. The location of the learning commons should be near academic areas and community areas.
- n. **The Cafeteria and Kitchen** must support the flow of students to and from the space and within the seating area. Bathrooms must be included in the cafeteria space. A variety of choice seating should be provided that emulates a university dining hall and can function as a study hall seating when not being used during lunch. The servery must be ADA compliant. A separate loading dock and clearly defined pedestrian and vehicular circulation path is essential in maintaining a safe and user-friendly environment. The location of the cafeteria should be near academic areas and community areas.
- o. **The Physical Education and Health Department and Athletics** are an important part of student life in all high schools. The challenges facing New Fairfield High School emanate from outdated facilities, inequity in the assignment of space resulting in Title IX violations, inadequate teaching locations for health education, and poor locker room conditions. Although the accessibility, infrastructure and physical conditions can be addressed within the existing space, the Title IX and instructional concerns need to be addressed by developing an appropriately sized locker rooms and classroom for physical education, health, athletics, and the natatorium (pool). In addition to a full sized gym, space is needed for the fitness room as well as wrestling and cheerleading programs. All program spaces must meet current codes and safety regulations, and include technology infrastructure to support voice, video and data systems; equipment and furnishings. The department's spaces should be contiguous.
- p. **The Administration** offices must be designed to provide support for the efficient operation of the administrative, secretarial, and security staff. The administrative offices should be located at the main school entrance and provide control for all visitors and students entering and leaving the school. FFE specific to the administrative use must be installed. The school resource officer office should be proximate to the main office. All program spaces must meet current codes and safety regulations, and



include technology infrastructure to support voice, video and data systems; equipment and furnishings.

- q. **The School Counseling Department** provides services to all students at NFHS (regular education, special education, alternative education). The model of delivery includes: individual, group, family, and classroom sessions. Small group instructional spaces for multiple counselors is required. The school counseling department should have shared space in a “mental health suite” that includes school counselors, school nurse and clinic, social worker, and school psychologist. This area must include private conference rooms, private office spaces, college and career center area, secretarial area, waiting areas, storage area, and fire safe master and confidential file areas. All program spaces must meet current codes and safety regulations, and include technology infrastructure to support voice, video and data systems; equipment and furnishings. The mental health suite should be adjacent to administration offices.
- r. **The Facility Management including the physical plant** and building systems infrastructure at New Fairfield High School must meet the latest building, fire and life safety codes adopted by the State of Connecticut. In addition the NFHS facility must meet and/or exceed the high performance building standards adopted by the State, and achieve a LEED Silver or equivalent certification. Alternative energy systems will be introduced with the goal of making New Fairfield High School an example of environmental stewardship. All program spaces will be accessible.
- s. **The Site** at New Fairfield High School is quite large however the steep grades and contours do present some challenges. Parking and vehicular circulation needs to be addressed in order to allow for the potential of the high and middle school start times being the same. The Civil Rights Compliance Review report cited lack of access at the site and the fields as part of the deficiencies identified at NFHS. The site slopes, resulting in the need for ramps in several locations. Reorganization of the vehicular traffic is necessary to provide separation of bus and car (parent & student) traffic. Additional parking is needed to support the academic program.

### Flexibility and Agility

Understanding that change is a constant for school facilities, the design of New Fairfield High School must be flexible and agile. The spaces should be equipped with the necessary tools and furniture to encourage collaboration, self-directed learning and the many varieties of teaching, exploration and discovery that are the trademark of superior and healthy educational environments. To accommodate the ever-changing world of educational theory, these environments have the power to change not just year-to-year but day-to day.

In support of this dynamic and agile learning environment all elements of the facility should be designed to support possible re-configurations of its interior space. These design elements could include, but are not limited to:

- Interior partitions that are de-mountable or non-load bearing
- Using circulation areas as potential break-out spaces, an approach that could be applied to the new gym and auditorium lobby.
- Creating space that can adapt to a variety of teaching and learning styles (lecture, team work, self-directed, individual). The multipurpose room would be such a space as well as commons areas.

While all of these traits provide one level of flexibility, perhaps a much more important level of flexibility would be demonstrated in a facility that allows for different curricular models to exist without the reconfiguration of existing space.



### **Furniture, Fixtures, and Equipment**

The planning for New Fairfield High School's construction must also take into account FF&E. The implementation of a furniture program is critical in the success of the school facility, a process that brings closure to facilities planning by ensuring that the facility and its furnishings compliment and connect with the school's educational goals. High expectations for academic programs and community life translate into extended hours of usage and high-performance requirements for facilities and furnishings. Integration of furniture planning with the building design supports: Student-centered decision making; Flexible, program driven facilities; A variety of teaching practices; Technology integrated with learning; Formal and informal interaction, promoting teams and community; Increasing requirements for flexibility, agility, and multi function; A recognition that schools in competition for students and teachers necessitate a consistent image and real benefits for the learner.

Several strategies enable furniture and facilities to support the education process:

**Plan ahead:** To avoid planning disconnects, furniture scope and concepts need to be planned with the initial stages of a project. This allows the school to maintain control over budget, schedule, the physical coordination between facilities and furniture and more importantly allows the spaces to work as planned.

**Recognize that people work in different modes throughout the day:** Flexible and adaptive furniture should meet needs for varying teaching and learning styles. Understand the need for connectivity to technology is increasing. Smaller computers and powerful networks allow a whole classroom to be connected at once. Furniture needs to accommodate computers at times and hands-on project work at others. Students with laptops and handheld devices require connectivity in locations previously unconsidered: informal benches, terrace, or common space such as the lobby, commons, or multipurpose.

**Furniture can address ergonomic issues that promote student well-being:** Seating concepts should relate to desk concepts. Modular and adjustable furniture should meet ergonomic needs of individual users.

**Flexible / agile / multi-functional:** Furniture that can meet several needs will stretch the budget, increase functionality, and potentially open floor area within the facility. In addition to specifying modular furniture within one room, opportunities to share furniture within the building should be explored, keeping in mind that furniture for 21st century schools must respond to ever-changing performance requirements.

**Don't forget about public areas:** Furniture can support informal learning. Lounge seating with tablet arms, furniture with wheels to encourage impromptu arrangements, and cafe tables can all reinforce student interaction.

### **Energy Conservation and Sustainable Design**

With a goal of educating future global leaders, New Fairfield High School has the opportunity to become examples and a teaching tool to future stewards of the environment. Through the construction of a new facility, the school can improve the impact on the environment and reduce operating costs while educating staff, students & community members on the values of sustainable or "green" design. With careful planning, a building and an educational program can come together to teach students the value of their environment, and their own impact on our ecological future. By raising students' awareness of their surroundings and the impact of human actions on the environment, schools have the opportunity, in a single building program, to



create a sense of environmental citizenship that will influence their students well beyond the classroom walls. There is no standard sustainable formula that can be applied to every expanded or new school facility under construction, however, the goals outlined below can assist schools in developing a green plan that best represents and serves its community.

### **Low Environmental Impact**

Maximizing the benefits of a building site can help facilities on a variety of levels. From preserving native landscape to effective storm water and wastewater management, a thoughtful building plan can lessen a facility's impact on the original environment of a school site. Even the color of roof and paving surfaces can impact the energy usage of the facility. Sound site design strategies are not only good for the environment; they can also provide opportunities for students to learn about native plant and animal species, effective water management and other important green concepts. The New Fairfield High School project will incorporate a green roof into the design and the design team will work with the school staff to integrate the sustainable and energy conservation concepts into the science curriculum.

### **High Environmental Quality**

Preserving the natural environment also translates to maintaining a high environmental quality within school facilities. Indoor Air Quality (IAQ) is just one element of the building environment that affects students, teachers and staff. In fact, many school districts have closed facilities due to health concerns that center on the real or perceived air quality within a building. Several environmental strategies, from the use of non-toxic materials to the types of natural and mechanical ventilation, have been proven to greatly increase the air quality within schools.

### **Sustainable Ideas in Education**

Buildings are typically thought of as shelter for our activities; however, as buildings work to preserve our environment, they also become invaluable teaching tools. With the combination of modern technology and well designed "green" buildings students can learn: How much carbon is emitted into the atmosphere when we turn on a light switch? How much energy can we derive directly from the sun? How does air flow through a building and provide natural ventilation? Students can learn the answers to these and many other questions through the use of building control systems linked to in-house audio-visual equipment that provide real-time feedback to students on the building systems as they wander the halls of their school.

In the end, green architecture succeeds on many levels - from improving educational environments, enhancing curriculum, and reducing operating costs to preserving our rapidly depleting natural resources. Taking the time to initiate and maintain a green plan demonstrates a commitment to our students' future.

### **Energy Reduction**

Reducing the amount of energy consumed by a facility preserves the environment while also reducing operating costs over a building's life cycle. Along these lines green buildings offer an opportunity to optimize the indoor environment by using daylight as the primary source of illumination. Studies demonstrate dramatic test score increases and other student benefits in schools that incorporate sound daylighting strategies versus those that rely heavily on artificial lighting and provide minimal or no daylight. Powerful computer software allows architects and engineers to carefully design and test building facades with window sizes and placement that effectively bring daylight into the interior of a building and reduce the reliance on artificial lights. As the cost of artificial lighting an average school can amount to approximately one-third of the overall energy usage, day lighting represents a sound investment in both reduced energy costs and improved student performance.



## Section VI: Detailed Description

### Overview of Program Format

The educational programming section for the New Fairfield High School study is organized into six sections. Each section identifies program and support spaces that are programmatically related. All spaces within the facility are identified in one of the following sections:

1. Academic & Support Spaces
2. Fine & Performing Arts
3. Career & Technical Education
4. Assembly and Community Use
5. Administration and Student Services
6. Facilities Management and Support

A space utilization program is developed for each space. The information is provided as a starting point for the architectural design team. Further review with the school for final room layout, furnishings and fixtures will be required prior to the development of the final design.

#### 1. ACADEMIC & SUPPORT SPACES

- English
- Social Studies
- World Language
- Science
- Mathematics

#### 2. FINE & PERFORMING ARTS

- Music (Band, Chorus, Strings)
- Art

#### 3. CAREER & TECHNICAL EDUCATION

- Technology Education (Engineering, Construction, & Graphics)
- Business
- Family & Consumer Science

#### 4. ASSEMBLY & COMMUNITY USE

- Learning Commons and Makerspace
- Cafeteria, Kitchen, and Served
- Auditorium / Assembly
- Physical Education and Health

#### 5. ADMINISTRATION & STUDENT SERVICES

- Administrative Offices
- Health/Nurse
- Special Education
- School Counseling

#### 6. FACILITY MANAGEMENT & SUPPORT

02. Mechanical / Electrical / Plumbing / Security Infrastructure
- Facilities Offices & Building Storage



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## Educational Program Specifications – English

### Program Objectives

Each student who graduates from New Fairfield High School needs to successfully earn 4.0 credits in English. English standards mandate that students, by the end of 12th grade, should have developed proficiency, confidence, and fluency in reading, writing, listening, speaking, and viewing to meet the literacy demands of the 21st century. Although we understand that the development of language is a lifelong process, the extent to which students become proficient in these skills while at New Fairfield is vitally related to their future abilities to function independently and productively in life. Specifically, students should be able to read and respond in personal, literal, critical, and evaluative ways to literary, informational, and persuasive texts. They should also produce written, oral, and visual texts to express, develop, and substantiate ideas and experiences. Students will use the language arts to explore and respond to classic and contemporary texts from many cultural and historical periods. They also will recognize their own strengths and weaknesses in English. Since language itself is an important means of giving shape to experience and knowledge of expressing human hopes and feelings, students shall be instructed in the ways in which language functions and in ways of controlling and using language. The English department at New Fairfield is tasked with managing the Senior Enrichment Experience graduation requirement.

### Program Goals

Instruction in English involves the 21<sup>st</sup> Century Learning Expectations of writing effectively, reading effectively, speaking effectively, problem-solving effectively, and thinking critically. The goals of the English program include the following:

- A. Development of skills which are basic to most other subjects studied and useful, if not vital, to success in our highly verbal culture;
- B. Development of an understanding about literacy tradition which comprises the subject matter unique to English, the broad cultural heritage of the English-speaking people – religious, technological, political, sociological and artistic;
- C. Development of the powers of comprehension, coherence and fluency in expression;
- D. Presentation of literary works that promote humanistic attitudes, aesthetic appreciation, critical evaluation, and civic pursuits;
- E. Development of critical judgment techniques through practice and awareness of the way language shapes our world.

### Program Activities to be accommodated

Activities to be housed include large and small group instruction and class work. Students will discuss, read, write, word process, present, dramatize, and conduct research, applying skills and content learned through the utilization of material available in the classroom, as well as through the technological resources of voice, video, and print media. Each classroom must be large enough to accommodate students working in small and large groups. Space must allow for teacher supervision of small groups and acoustics must be appropriate to control the noise level. All students are also required to meet individually with teachers in conference; therefore, appropriate quiet space should be provided. The English classroom should function as a general classroom with full audiovisual/technology capabilities supported with the necessary electrical and network infrastructure. Natural light, multi-level lighting and individualized environmental control should be provided in each space.





### **Space Occupancy and Design Criteria**

The English Department classrooms include the students and English Department teachers. Depending on the course, a special education teacher, paraprofessional, or a collaborative teacher may share space for the instruction of small groups or individuals within the regular classroom. The following is a partial list of design elements that should be incorporated into all instructional spaces:

- The classroom configuration should maximize flexibility and interaction within and among the instructional areas for development of teaching teams and student learning.
- Each classroom should have the capability to support connectivity of multiple devices.
- Digital projection systems should be utilized for visual display.
- Interactive whiteboards should be installed in all instructional areas, which should be connected to an audio-visual system and a computer.
- Ceiling height and windows should maximize natural light and accommodate daylight.
- Side-lites must be provided adjacent to all classroom doors.
- Cabinets and casework appropriate to the instructional classroom function should be provided. General classrooms should be provided with a minimum of 12 linear feet of casework, while specialty spaces should be designed to accommodate the program requirements.
- Special consideration should be given for sound transmission to minimize sound infiltration into the adjacent space.
- Whiteboards and Bulletin Boards should be provided in each instructional space.
- Bookcases for showcasing and storing independent reading library materials

### **Proposed Program and Concept Plan**

The educational program space outlined below is based on building new facility to meet the program objectives established for New Fairfield High School. The classroom should be designed to provide the department flexibility in the assignment of rooms based on enrollment in particular courses. The English department program space should be adjacent to social studies and world language.

### **Program Requirements**

The English Department space requirements will include classrooms. The space should be designed as a flexible learning environment that is able to accommodate a number of teaching styles and disciplines. All furniture will be evaluated for life expectancy and all furniture and/or equipment that does not meet ADA requirements or is in poor condition will be replaced. The department workroom/office could be in a shared space with the social studies and/or world language departments.

### **General Classrooms**

Proposed SF: 700 to 750 SF Each

English: 6-7

Math: 6-7

Social Studies: 6-7

World Language: 5-6

Health: 1 -2





### **Space Design Concept**

The classrooms should be designed for an integrated approach to technology and multiple furniture arrangements and flexible classroom configurations. The space should function as a general shared instructional space.

### **Program Activities**

Support several teaching styles, including lectures, small group and individual instruction.

### **Loose Furnishings**

Modular rectangular tables with chairs to support up to 25 students  
Circular tables for small groups with chairs  
Fixed computer stations  
Teacher Desk and Chair  
Lateral/vertical file cabinet

### **Fixed Equipment**

Marker/whiteboard  
Tack board & display boards  
Projection screen/surfaces  
Flag Bracket & Flag  
Display and bookshelves  
Tall wardrobe and storage cabinet  
Fixed cabinets and accessible work surfaces

### **Finishes**

Floor material: VCT or Carpet and Rubber Base  
Wall material: Block and /or Sheetrock with paint finish  
Ceiling material: Acoustical Tile  
Hardware: ADA compliant  
Lighting: Multi level direct/indirect  
Windows: Operable with blinds or shades with maximized natural light

### **Special Requirements**

HVAC systems including Air Conditioning

### **Technology**

Power outlet: floor and walls  
Media projection system or Interactive Whiteboard  
Voice, video and data ports  
Security per school safety plan  
Portable sound system  
Wireless & Hard-wired Network  
Integrated public address system



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**Seminar Rooms for Small Group Instruction / Breakout**

Proposed SF: 350 to 500 SF Each

English: 1

Math: 1

Social Studies: 1

World Language: 1

**Space Design Concept**

The seminar classroom should be designed for an integrated approach to technology and multiple furniture arrangements and configurations for small group instruction and/or breakout arrangements within or near classrooms.

**Program Activities**

Support several teaching styles, including lectures, small group and individual instruction.

**Loose Furnishings**

Modular rectangular tables with chairs to support up to 8 students

Circular tables for small groups with chairs

**Fixed Equipment**

Marker/whiteboard

Tack board & display boards

Projection screen/surfaces

Flag Bracket & Flag

Fixed cabinets and accessible work surfaces

**Finishes**

Floor material: VCT or Carpet with Rubber Base

Wall material: Block and /or Sheetrock with paint finish

Ceiling material: Acoustical Tile

Hardware: ADA compliant

Lighting: Multi level direct/indirect

Windows: Operable with blinds or shades with natural light preferred

**Special Requirements**

HVAC systems including Air Conditioning

**Technology**

Power outlet: floor and walls

Media projection system or Interactive Whiteboard

Voice, video and data ports

Security per school safety plan

Portable sound system

Wireless & Hard-wired Network



Integrated public address system

### **Departmental Workroom**

Proposed SF: 150 to 200 SF Each Department

Math and Science Shared: 1

English and Social Studies Shared: 1

### **Space Design Concept**

The workroom should be designed to accommodate a work/planning area, a heavy-duty copier, limited equipment and secure storage. The workroom could be shared with one or more departments and be part of a department office.

### **Program Activities**

Teacher planning and preparation room.

### **Loose Furnishings**

Compute Stations

Work tables and chairs

Lateral/vertical file cabinet

### **Fixed Equipment**

Marker/whiteboard

Tack board & display boards

Fixed cabinets and accessible work surfaces

### **Finishes**

Floor material: VCT or Carpet with Rubber Base

Wall material: Block and /or Sheetrock with paint finish

Ceiling material: Acoustical Tile

Hardware: ADA compliant

Lighting: Multi level direct/indirect

Windows: Operable with blinds or shades with natural light preferred

### **Special Requirements**

HVAC systems including Air Conditioning

### **Technology**

Power outlet

Media projection system or Interactive Whiteboard

Voice, video and data ports

Security per school safety plan

Wireless & Hard-wired Network

Integrated public address system

### **Department Offices**

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# New Fairfield High School

## Educational Specifications

June 2019

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Proposed SF: 100 to 150 SF Each Department

English: 1

Math: 1

Social Studies: 1

World Language: 1

### **Space Design Concept**

The office should be designed to accommodate the department chairperson, all department faculty/staff and a small conference area. The space should be adjacent to the workroom.

### **Program Activities**

Department leader's office

Conference Space

Teacher Work Stations

### **Loose Furnishings**

Desks and Chairs

Conference table and chairs

Lateral/vertical file cabinet

### **Fixed Equipment**

Marker/whiteboard

Tack board & display boards

Fixed cabinets and accessible work surfaces

### **Finishes**

Floor material: VCT or Carpet with Rubber Base

Wall material: Block and /or Sheetrock with paint finish

Ceiling material: Acoustical Tile

Hardware: ADA compliant

Lighting: Multi level direct/indirect

Windows: Operable with blinds or shades with natural light preferred

### **Special Requirements**

HVAC systems including Air Conditioning

### **Technology**

Power outlet

Media projection system or Interactive Whiteboard

Voice, video and data ports

Security per school safety plan

Wireless & Hard-wired Network

Integrated public address system

### **Department Storage**

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Proposed SF: 150 to 250 SF

English: 1

Math: 1

Social Studies: 1

World Language: 1

### **Space Design Concept**

The storage should be designed to accommodate books, media storage and department specific equipment.

### **Program Activities**

Storage of educational materials.

### **Loose Furnishings**

Lateral and or vertical file cabinet

### **Fixed Equipment**

Shelves to accommodate 600+ books

Secure storage cabinet

### **Finishes**

Floor material: VCT with Rubber Base

Wall material: Block and /or Sheetrock with paint finish

Ceiling material: Acoustical Tile

Hardware: ADA compliant

Lighting: Standard

### **Special Requirements**

HVAC systems exhaust and cooling if necessary

### **Technology**

Power outlet

Security per school safety plan

Integrated public address system

## **Educational Program Specifications – Social Studies**

### **Program Objectives**

The National Council for Social Studies has defined a vital Social Studies curriculum that promotes civic competence, enabling young people to develop the ability to make informed and reasoned decisions as part of a culturally diverse and democratic society. Through an integrated study of the social sciences and humanities, students will achieve an understanding of the history of the Western world and the United States and the Effects on their lives; understanding of the history and culture of other portions of the world; understanding of the operations of our representative government and their roles in it; and the ability to effectively communicate their ideas orally and in writing. The 9-12 Social Studies curriculum focuses on learning opportunities that enable students to think critically, integrate significant fact, concepts and generalizations



from history and social science into their own experiences and research skills. Students must complete 3.5 Credits in Social Studies to qualify for Graduation.

### **Program Activities to be accommodated**

Activities to be housed include large and small group instruction and class work. Students will discuss, read, write, word process, present, dramatize, and conduct research, applying skills and content learned through the utilization of material available in the classroom as well as through the technological resources of voice, video, and print media. Each classroom must be large enough to accommodate students working in small and large groups. Space must allow for teacher supervision of small groups and acoustics must be appropriate to control the noise level. All students are also required to meet individually with teachers in conference; therefore, appropriate quiet space should be provided. The social studies classroom should function as a general classroom with full audiovisual/technology capabilities supported with the necessary electrical and network infrastructure. Natural light, multi-level lighting, and individualized environmental control should be provided in each space.

### **Space Occupancy and Design Criteria**

The Social Studies Department classrooms include the students and Social Studies Department teachers. Depending on the course, a special education teacher, paraprofessional, or a reading/writing resource teacher may share space for the instruction of small groups or individuals within the regular classroom. The following is a partial list of design elements that should be incorporated into all instructional spaces:

- The classroom configuration should maximize flexibility and interaction within and among the instructional areas for development of teaching teams and student learning.
- Each classroom should have the capability for a large number of computers.
- Digital projection systems should be utilized for visual display.
- Interactive whiteboards should be installed in all instructional areas, which should be connected to an audio-visual system and a computer.
- Ceiling height and windows should maximize natural light and accommodate daylight.
- Glass side-lite must be provided adjacent to all classroom doors.
- Cabinets and casework appropriate to the instructional classroom function should be provided. General classrooms should be provided with a minimum of 12 linear feet of casework, while specialty spaces should be designed to accommodate the program requirements.
- Special consideration should be given for sound transmission to minimize sound infiltration into the adjacent space.
- Whiteboards and Bulletin Boards should be provided in each instructional space.

### **Proposed Program and Concept Plan**

The educational program space outlined below is based on constructing a new facility to meet the program objectives established for New Fairfield High School. The classroom should be designed to provide the department flexibility in the assignment of rooms based on enrollment in particular courses. The Social Studies department program space should be adjacent to English and/or World Language.

### **Program Requirements**

The Social Studies Department space requirements will include classrooms, storage rooms and workrooms. The space should be designed as a flexible learning environment that is able to accommodate a number of teaching styles and disciplines. All furniture will be evaluated for life expectancy and all furniture and/or



equipment that does not meet ADA requirements or is in poor condition will be replaced. The department workroom/office could be in a shared space with the social studies and/or world language departments.

## **Educational Program Specifications – World Language**

### **Program Objectives**

Each student who graduates from New Fairfield High School needs to successfully earn 1 credit for graduation and three credits for Diploma distinction in World Language. The New Fairfield World Language Department recognizes the importance of language as a lifetime endeavor and provides students with communicative and cultural learning opportunities necessary for success in the ever-changing world. The department aims to engage students in use world languages in a purposeful way in order to become linguistically, culturally, ethnically, geographically, politically, and socially literate. It is understood by colleges that world languages are of great importance in today's world for self-development and career possibilities, as well as for communication with an understanding of cultures. The following is an outline of the World Language department's goals and objective for the students at New Fairfield High School.

### **Program Goals and Curriculum**

Instruction in World Language involves the 21<sup>st</sup> Century Learning Expectations of writing effectively, reading effectively, speaking effectively, problem-solving effectively, and thinking critically. The goals of the World Language program include the following:

### **Department Goals**

- Develop a World Language program that meets the needs of all students.
- Promote global Understanding
- Development of skills which are basic to our highly verbal culture;
- Development of an understanding and appreciation about the broad cultural heritage cultures: religious, technological, political, sociological, and artistic;
- Development of the powers of comprehension, coherence and fluency in expression;
- Development of critical judgment techniques through awareness and practice of the way language shapes our world.

### **Student Objectives:**

- Communicate effectively in the target language.
- Develop listening, speaking reading and writing skills.
- Gain knowledge and understanding of other cultures.
- Make connections and comparisons across the disciplines.
- Participate in multilingual; communities within a variety of contexts.
- Develop knowledge and problem-solving skills.
- Develop critical thinking abilities.

### **Program Activities to be accommodated**

Activities to be housed include large and small group instruction and class work. Students will discuss, read, write, word process, present, dramatize, and conduct research, applying skills and content learned through materials available in the classroom, as well as through the technological resources of voice, video, and print media. Each classroom must be large enough to accommodate students working in small and large groups. Space must allow for teacher supervision of small groups and acoustics must be appropriate to control the





noise level. All students are also required to meet individually with teachers in conference; therefore, appropriate quiet space should be provided. The World Language classroom should function as a general classroom with full audiovisual/technology capabilities supported with the necessary electrical and network infrastructure. Natural light, multi-level lighting, and individualized environmental control should be provided in each space.

A Language Lab is indispensable in world language learning as it provides opportunities to address different learning modalities; such as auditory comprehension and speaking. Students will increase / attain proficiency in language by engaging in authentic scenarios. Students can watch a video, record responses (using video, pictures, teacher generated questions etc.) practice their pronunciation, and review them instantly as they strive to be proficient in the language. Students can receive instant feedback from the teacher as they practice speaking, writing individually, paired or group set-up.

World language students are assessed throughout the year on their speaking and listening comprehension. A major component of the mid-term and final exam consists of a listening and speaking portion. Preparation for the advanced placement exams in French, Italian and Spanish is an integral part of the class. The AP Exam include an intensive listening, speaking and comprehension components. These two components account for 50% of the exam grade. In addition, the AP Central requires the use of technology in order to grant AP credit status to the school. Furthermore, the national French Italian and Spanish exams require a computer equipped language lab to administer the national exam.

### **Space Occupancy and Design Criteria**

The World Language Department classrooms include the students and World Language Department teachers. Depending on the course, a special education teacher, paraprofessional, or a resource teacher may share space for the instruction of small groups or individuals within the regular classroom. The following is a partial list of design elements that should be incorporated into all instructional spaces:

- The classroom configuration should maximize flexibility and interaction within and among the instructional areas for development of teaching teams and student learning.
- A world language lab should be provided with display space for culturally relevant artifacts and artwork. Digital projection systems should be utilized for visual display.
- Interactive whiteboards should be installed in all instructional areas, which should be connected to an audio-visual system and a computer.
- Ceiling height and windows should maximize natural light and accommodate daylight.
- A sidelite must be provided adjacent to all classroom doors.
- Cabinets and casework appropriate to the instructional classroom function should be provided. General classrooms should be provided with a minimum of 12 linear feet of casework, while specialty spaces should be designed to accommodate the program requirements.
- Mechanically operated walls / partitions may be provided between classrooms to provide the option of team teaching and the flexibility of space utilization.
- Special consideration should be given for sound transmission to minimize sound infiltration into the adjacent space.
- Speaker systems should be incorporated into all instructional spaces.
- Whiteboards, Tack-boards and projection screens should be provided in each instructional space.
- Shelving for world language cultural books.
- Display space for culturally relevant art work.



- Small group instruction and breakout rooms.
- Space for a departmental library in the language lab.
- Lecture venue for multiple classrooms or a student count of 75

### **Proposed Program and Concept Plan:**

The educational program space outlined below is based on constructing a new facility to meet the program objectives established for New Fairfield High School. The classroom should be designed to provide the department flexibility in the assignment of rooms based on enrollment in particular courses. A language lab based on twenty four stations should be located in close proximity to the department.

### **Program Requirements**

The World Language Department space requirements will include classrooms. The space should be designed as a flexible learning environment that is able to accommodate a number of teaching styles and disciplines. All furniture will be evaluated for life expectancy and all furniture and/or equipment that does not meet ADA requirements or is in poor condition will be replaced. The department workroom/office could be in a shared space with other departments. The specific space requirements for each space are identified under general classrooms.

### **World Language Laboratory**

Quantity: 1

Proposed SF: 1,200 to 1,250 SF

### **Space Design Concept**

The language lab should be designed for an integrated approach to technology. The furniture arrangements should accommodate a teacher workstation in the front of the room classroom configuration. This space should also function as a traditional computer lab, with space for a language library.

### **Program Activities**

Support a number of teaching styles, including lectures, small group and individual instruction.

### **Loose Furnishings**

Computer workstations with chairs to support up to 25 students

Teacher Desk and Chair

Lateral/vertical file cabinet

### **Fixed Equipment**

Marker/whiteboard

Tack board & display boards

Projection screen/surfaces

Flag Bracket & Flag

Display and bookshelves

Tall wardrobe and storage cabinet

Fixed cabinets and accessible work surfaces

### **Finishes**

Floor material: VCT or Carpet and Rubber Base

# New Fairfield High School

## Educational Specifications

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Wall material: Block and /or Sheetrock with paint finish  
Ceiling material: Acoustical Tile  
Hardware: ADA compliant  
Lighting: Multi level direct/indirect  
Windows: Operable with blinds or shades with maximized natural light

### **Special Requirements**

HVAC systems including Air Conditioning

### **Technology**

Power outlet: floor and walls  
Media projection system or Interactive Whiteboard  
Voice, video and data ports  
Security per school safety plan  
Portable sound system  
Wireless & Hard-wired Network  
Integrated public address system  
30 computers with DVD player and LCD monitors connected to network, printer & internet DVD connected to projector.  
Digital Sony Virtuoso Major Software, 30 headphones, Printer with scanner

## **Educational Program Specifications – Mathematics**

### **Program Objectives**

The 9-12 Math curriculums focuses on learning opportunities that enable students to think critically: and problem-solve by analyzing data and applying math concepts to real world situations. Students should become mathematical problem solvers, learn to communicate and reason mathematically, learn to value mathematics, and develop confidence in their ability to do mathematics.

The high school mathematics program includes a range of offerings, including Algebra, Geometry, Algebra II, Statistics (both college prep and Advanced Placement), Pre-Calculus, and Calculus (both regular and Advanced Placement), and AP Computer Science. Though there is a specific focus for each mathematics course, problems and explorations are introduced which cause students to revisit other strands of the mathematics curriculum, thereby highlighting the connections among different math topics and courses. Technology should be used extensively throughout the curriculum, enabling teachers to provide visual and physical components to illustrate abstract mathematical concepts, giving students opportunities to learn quickly and in depth. All courses should be applications driven, meaning that mathematical skills and concepts are taught as much as possible in the context of real-world situations.

### **Program Goals**

Activities to be housed include large group instruction and small group class work. Students will "discuss, read, write, compute, present, problem-solve, research, explore, and experiment. Students will regularly use technology, including advanced graphing calculators, and laptops. Teachers will provide computer access for their classes on a regular basis, so students can work with specialized mathematics software to carry out explorations and research on the Internet. Each classroom must be large enough to accommodate students



working in small and large groups. Space must allow for teacher supervision of small groups and acoustics must be appropriate to control the noise level. Adequate power and charging stations should be provided.

### **Program Activities to be Accommodated**

Activities to be housed include large and small group instruction and class work. Students will discuss, read, write, word process, present, dramatize, and conduct research, applying skills and content learned through the utilization of material available in the classroom, as well as through the technological resources of voice, video, and print media. Each classroom must be large enough to accommodate students working in small and large groups. Space must allow for teacher supervision of small groups and acoustics must be appropriate to control the noise level. All students are also required to meet individually with teachers in conference; therefore, appropriate quiet space should be provided. The Mathematics classroom should function as a general classroom with full audiovisual/technology capabilities supported with the necessary electrical and network infrastructure. Natural light, multi-level lighting, and individualized environmental control should be provided in each space.

### **Space Occupancy and Design Criteria**

The individual's utilization the space includes students, mathematics teachers and a special education teacher if required. Shared office space is also required so that teachers have a place to work with students and conference with parents and other teachers, as well as plan lessons. The Math classroom should function as a general classroom with full audiovisual/ technology capabilities supported with the necessary electrical and network infrastructure. Natural light, multi-level lighting and individualized environmental control should be provided in each space. The following is a partial list of design elements that should be incorporated into all instructional spaces:

- The classroom configuration should maximize flexibility and interaction within and among the instructional areas for development of teaching teams and student learning.
- Dedicated computer labs are no longer necessary. Technology should be ubiquitous to the high school.
- Digital projection systems should be utilized for visual display.
- Interactive whiteboards should be installed in all instructional areas.
- Ceiling height and windows should maximize natural light and accommodate daylighting.
- Vision Side-lites must be provided adjacent to all classroom doors.
- Lockable cabinets and casework appropriate to the instructional classroom function should be provided.
- General classrooms should be provided with a minimum of 12 linear feet of casework, while specialty spaces should be designed to accommodate the program requirements.
- Operable walls/partitions may be provided between some classrooms to provide the option of team teaching and the flexibility of space utilization. All operable partitions must be mechanically operated.
- Special consideration should be given for sound transmission at operable and standard walls to minimize sound infiltration into the adjacent space.
- Speaker systems should be incorporated into all instructional spaces.
- Whiteboards, Tack boards and projection screens should be provided in each instructional space.
- Small group instruction and multiple use conference spaces

### **Proposed Program and Concept Plan**

The educational program space outlined below is based on building new to meet the program objectives established for New Fairfield High School. The classroom should be designed to provide the department flexibility in the assignment of rooms based on enrollment in particular courses.



### **Program Requirements**

The Mathematics Department space requirements will include classrooms. The space should be designed as a flexible learning environment that is able to accommodate a number of teaching styles and disciplines. All furniture will be evaluated for life expectancy and all furniture and/or equipment that does not meet ADA requirements or is in poor condition will be replaced. The department workroom/office could be in a shared space with the Science departments. The specific space requirements for each space are identified under general classrooms.

### **Educational Program Specifications - Science**

#### **Program Objectives**

The United States has set a national goal for the achievement of scientific literacy by all students. Scientific Literacy allows students to participate effectively in the discussion of scientific issues that affect society and to strengthen skills that are important in everyday life (e.g., thinking critically, solving- problems). The National Science Education Standards outline the expectations of a science curriculum. Students must know and apply basic scientific knowledge in life, physical, earth and space sciences. Throughout this great diversity of subject matter there are common themes of energy, matter, systems, change and continuity, process and society. Students should have many opportunities for inquiry and investigation: making observations, posing questions, using research, analyzing data, and proposing explanations. A critical combination of content and process is necessary to achieve these goals which can be accomplished by maximize laboratory use and provide a laboratory-centered science experience. *The Science program shall incorporate the greenroof and technology to expand and enrich student learning opportunities. All Grades 9 through 12 will need the full "traditional" lab environment with the support facilities, including storage and preparatory rooms.*

#### **Program Activities to be Accommodated**

Activities to be housed include large and small group instruction along with the ability to apply and experience the scientific theory through experiments in a laboratory environment. Students will read, discuss, write, and conduct research, by utilization materials available in the Lab-Classroom as well as the technological resources of voice, video, and, print media. The facilities must be designed to be adaptable to all the curricula. All science courses will be taught with an emphasis on investigation.

#### **A. Instructional Activities:**

1. Conduct lecture/class discussion.
2. Demonstrate on marker board, overhead projector and interactive whiteboard.
3. Plan provide and lead laboratory activities.
4. Use technology in a lab environment.
5. Teach, test and remediate individuals, small and large groups.
6. Prepare students for science fair competitions/exhibitions.
7. Answer individual student questions.
8. Plan individually and departmentally.
9. Use models, charts and whiteboard
10. Conduct outdoor instructional activities for classes and individual students.
11. Utilize solar and other renewable energy strategies in the science curriculum.
12. Explore energy conservation strategies such as green roofs, geothermal, etc.
13. Utilize greenhouse space for compost and plant growth research



14. A quiet space for alternative testing.

**B. Student Activities:**

1. Perform activities in small and large groups.
2. Listen to lecture and participate in class discussions.
3. Use computers to access information for research and content enhancing for labs.
4. Participate in small group activities with display equipment, such as aquarium models and other apparatus for class projects not requiring laboratory facilities.
5. Observe specimens under a microscope.
6. Plan, prepare, demonstrate, and exhibit science fair projects/exhibitions.
7. Perform activities which involve the use of gas, water, air and electricity.
8. Utilize counter space to read earth science maps, operate computers, etc.
9. Study and experiment individually for advanced placement courses...
10. Collect and identify rocks, minerals and soil.
11. Perform scientific experiments in groups of two or three. These experiments will apply, prove and/or test basic theories which have been presented in the classroom.
12. Use a variety of microscopes while conducting research.
13. Utilize apparatus and equipment in performing scientific experiments requiring electricity, water, air, and gas.
14. Interface the computer with basic laboratory equipment.
15. Access to small technology infused area for independent research and study.
16. Access to quiet space for alternative testing.

**Special Space Requirements and Design Criteria**

As science rooms will be designed to meet the needs of the different science disciplines, each room should be designed for flexibility for changing programs and course demand. Where possible labs should be multifunctional and able to accommodate Biology, Chemistry, Physics or elective courses.

- Chemistry rooms need ample storage for student balances, the wide range of equipment and supplies used models and goggles.
- Typically, Biology rooms need ample storage for microscopes, the variety of teaching supplies and chemicals, models, goggles, and other collections.
- Physics rooms need variable size storage cabinets with adjustable shelving to house the wide range of equipment.
- Physics rooms need storage for the wide range of equipment and supplies.
- Physics and chemistry classrooms would profit by being located near math classrooms.
- All spaces need quiet ventilation appropriate for science rooms. Immediate fume removal should be available overhead in the lab areas. Some windows should open to the outside and be screened. Each room or group of rooms requires separate prep and storage areas that support the science being taught in the adjacent Clab. Each prep room has a combination of shelf, cabinet, and drawer storage. Each has at least one sink with access to gas, water, and electricity. Counter space must be adequate.
- These prep rooms should be designed to also function as offices for the teachers.
- The biology prep area needs space and lighting for plant growth and electrical outlets to run an aquarium. Adequate storage of preserved materials and commonly used biological supplies will be close by. This prep area should be close to and on the same floor as the biology labs.
- The chemical prep area needs adequate storage for commonly used supplies as well as ready access to





storage facilities designed for acids, bases, and other chemicals used. This chemical storage area needs appropriate ventilation so that acid storage cabinets do not corrode. This prep area should be close to the chemistry classrooms/lab and should be on the same floor. A smaller chemical prep would be required for biology.

- All science classroom/labs should have non-slip vinyl tiles or a similar non-slip finish.
- Drains shall be provided at all labs where eye wash and body showers are installed.

### **Special Furniture and Equipment**

- Student lab work will be performed on impermeable, chemical-resistant surfaces.
- A portable handicapped lab station that is fully operational needs a designated spot in all classrooms.
- The student lab stations should include gas jets, deep sinks, hot and cold water faucets, and electrical outlets.
- The sinks should have screened drains and a water trap that is chemically resistant and easily cleaned.
- Master gas and electrical shut off should be provided in each room.
- Electrical outlets should have ground fault protection.
- Each room shall have a space for spill control materials and a chemical power and eyewash and drains.
- Each room should have the required safety equipment (eye goggle sanitizing cabinet, fire extinguisher, fire blanket, and first aid kit).
- All storage and closets will be lockable.
- Each room will have bulletin boards, wall space for charts, and a teacher demonstration area.
- There should be room for a standard two-student table beside each demonstration table.
- Each room needs space for networked computers and printers with nearby terminal and electrical outlets.
- Each room needs two wall mounted video monitors to allow all students to see at least one monitor clearly from his or her seat.
- Each science room needs whiteboards or marker boards, a chemical fume hood, a full-sized acid/chemical storage cabinet, and a regular refrigerator or one located under the counter.
- Rooms where advanced biology and chemistry classes are held require an explosion proof refrigerator and multiple fume hoods.

### **Proposed Program and Concept Plan**

The educational program space outlined below is based on constructing a new facility to meet the program objectives established for New Fairfield High School. The science labs and classrooms should be designed to provide the department flexibility in the assignment of rooms based on enrollment in particular courses. ADA, NFPA, OSHA and other code requirements must also be addressed in each space. A 21<sup>st</sup> Century typical clabroom will include casework/cabinets as well as technology to allow students access to the latest research in the specific subject area. The Science department program space should be adjacent to the math department.

### **Program Requirements**

The Science Department space requirements will include classrooms, combined lab and classrooms (Clabrooms) for Biology, Physics, Chemistry and Earth Science, Prep and storage rooms located between two clabs as a shared space. The space should be designed as a flexible learning environment that is able to





accommodate a number of teaching styles and disciplines. The department workroom/office could be in a shared space with the Math department. The following pages identify specific requirements for each space.

### **Biology Clabroom /Classrooms and Lab**

Quantity: 3-4

Proposed SF: 1,200 to 1,300 SF

#### **Space Design Concept**

The clabroom should be designed with technology integrated into each instructional workstation including the lab stations. All utilities (Gas, Water, and Power) will serve each lab station and data access will be designed to accommodate a variety of technologies. An Interactive Whiteboard will be located to provide access and use at the lecture and lab zones of the clabrooms. All casework will meet the National Science Education Standards and provide opportunity for multiple furniture arrangements and lecture configurations. The prep rooms, storage room for equipment and chemicals and project storage will be located adjacent to each clab. Safety and environmental comfort will be a priority in all laboratory and support spaces.

#### **Program Activities**

Support a number of teaching styles, including lectures, lab work, small group and individual instruction.

#### **Loose Furnishings**

Modular rectangular tables with chairs in a CLAB set-up – 24 Students  
Wireless computer stations  
Teacher Desk and Chair  
Lateral file cabinet  
Lab Chairs  
Student cubbies and coat hooks

#### **Fixed Equipment**

Acoustical treatment  
Marker/whiteboard (Multiple)  
Tack board & display boards  
Projection screen/surfaces  
Display and bookshelves  
Tall wardrobe and storage cabinet  
Fixed cabinets and accessible work surfaces  
Sink, Gas & Power at each lab station  
Eyewash & Body Shower with floor drain  
Fume Hood and/or Laminar Flow

#### **Finishes**

Floor material: Polished Concrete  
Base material: Rubber / Vinyl  
Wall material: Block / Sheetrock  
Ceiling material: Acoustical Tile  
Lighting Multi level direct/indirect



Windows Operable with blinds/Room darkening Shades - Maximize natural light

### **Special Requirements**

HVAC systems including Air Conditioning and direct exhaust  
Operable windows

### **Technology**

Power outlet – in Casework and walls  
Media projection system/Smartboards  
Security, Voice, video and data ports  
PA and Portable sound system

### **Chemistry Clabroom /Classrooms and Lab**

Quantity: 3-4  
Proposed SF: 1,250 to 1,350 SF

### **Space Design Concept**

The clabroom should be designed with technology integrated into each instructional workstation including the lab stations. All utilities (Gas, Water, and Power) will serve each lab station and data access will be designed to accommodate a variety of technologies. An Interactive Whiteboard will be located to provide access and use at the lecture and lab zones of the clabrooms. All casework will meet the National Science Education Standards and provide opportunity for multiple furniture arrangements and lecture configurations. The prep rooms, storage room for equipment and chemicals and project storage will be located adjacent to each clab. Safety and environmental comfort will be a priority in all laboratory and support spaces.

### **Program Activities**

Support a number of teaching styles, including lectures, lab work, small group and individual instruction.

### **Loose Furnishings**

Modular rectangular tables with chairs in a CLAB set-up – 24 Students  
Wireless computer stations  
Teacher Desk and Chair  
Lateral file cabinet  
Lab Chairs  
Student cubbies and coat hooks

### **Fixed Equipment**

Acoustical treatment  
Marker/whiteboard (Multiple)  
Tack board & display boards  
Projection screen/surfaces  
Display and bookshelves  
Tall wardrobe and storage cabinet  
Fixed cabinets and accessible work surfaces  
Sink, Gas & Power at each lab station



Eyewash & Body Shower with floor drain  
Fume Hood and/or Laminar Flow

### **Finishes**

Floor material: Polished Concrete  
Base material: Rubber / Vinyl  
Wall material: Block / Sheetrock  
Ceiling material: Acoustical Tile  
Lighting: Multi level direct/indirect  
Windows: Operable with blinds/Room darkening Shades - Maximize natural light

### **Special Requirements**

HVAC systems including Air Conditioning and direct exhaust  
Operable windows

### **Technology**

Power outlet – in Casework and walls  
Media projection system/Smartboards  
Security, Voice, video and data ports  
PA and Portable sound system

### **Physics Science Clabroom /Classrooms and Lab**

Quantity: 2-3  
Proposed SF: 1,200 to 1,250 SF

### **Space Design Concept**

The clabroom should be designed with technology integrated into each instructional workstation including the lab stations. All utilities (Air, Gas, Water, and Power) will serve each lab station and date access will be designed to accommodate a variety of technologies. An Interactive Whiteboard will be located to provided access and use at the lecture and lab zones of the clabrooms. All casework will meet the National Science Education Standards and provide opportunity for multiple furniture arrangements and lecture configurations. The prep rooms, storage room for equipment and chemicals and project storage will be located adjacent to each Clab. Safety and environmental comfort will be a priority in all laboratory and support spaces.

### **Program Activities**

Support a number of teaching styles, including lectures, lab work, small group and individual instruction.

### **Loose Furnishings**

Modular rectangular tables with chairs in a CLAB set-up – 24 Students  
Wireless computer stations  
Teacher Desk and Chair  
Lateral file cabinet  
Lab Chairs  
Student cubbies and coat hooks



### **Fixed Equipment**

Acoustical treatment  
Marker/whiteboard (Multiple)  
Tack board & display boards  
Projection screen/surfaces  
Display and bookshelves  
Tall wardrobe and storage cabinet  
Fixed cabinets and accessible work surfaces  
Sink, Gas & Power at each lab station  
Eyewash & Body Shower with floor drain  
Fume Hood and/or Laminar Flow

### **Finishes**

Floor material: Polished Concrete  
Base material: Rubber / Vinyl  
Wall material: Block / Sheetrock  
Ceiling material: Acoustical Tile  
Lighting Multi level direct/indirect  
Windows Operable with blinds/Room darkening Shades - Maximize natural light

### **Special Requirements**

HVAC systems including Air Conditioning and direct exhaust  
Suspended Girder below ceiling

### **Technology**

Power outlet – in Casework and walls  
Media projection system/Smartboards  
Security, Voice, video and data ports  
PA and Portable sound system

### **Elective Science Clabroom /Classrooms and Lab**

Quantity: 1 Multi-Use Lab  
Proposed SF: 1,000 to 1,200 SF Each

### **Space Design Concept**

The clabroom should be designed with technology integrated into each instructional workstation including the lab stations. All utilities (Air, Gas, Water, and Power) will serve each lab station and date access will be designed to accommodate a variety of technologies. An Interactive Whiteboard will be located to provided access and use at the lecture and lab zones of the clabrooms. All casework will meet the National Science Education Standards and provide opportunity for multiple furniture arrangements and lecture configurations. The prep rooms, storage room for equipment and chemicals and project storage will be located adjacent to each Clab. Safety and environmental comfort will be a priority in all laboratory and support spaces.

### **Program Activities**

Support a number of teaching styles, including lectures, lab work, small group and individual instruction.



### **Loose Furnishings**

Modular rectangular tables with chairs in a CLAB set-up – 24 Students  
Wireless computer stations  
Teacher Desk and Chair  
Lateral file cabinet  
Lab Chairs  
Student cubbies and coat hooks

### **Fixed Equipment**

Acoustical treatment  
Marker/whiteboard (Multiple)  
Tack board & display boards  
Projection screen/surfaces  
Display and bookshelves  
Tall wardrobe and storage cabinet  
Fixed cabinets and accessible work surfaces  
Sink, Gas & Power at each lab station  
Eyewash & Body Shower with floor drain  
Fume Hood and/or Laminar Flow

### **Finishes**

Floor material: Polished Concrete  
Base material: Rubber / Vinyl  
Wall material: Block / Sheetrock  
Ceiling material: Acoustical Tile  
Lighting: Multi level direct/indirect  
Windows: Operable with blinds/Room darkening Shades - Maximize natural light

### **Special Requirements**

HVAC systems including Air Conditioning and direct exhaust

### **Technology**

Power outlet – in Casework and walls  
Media projection system/Smartboards  
Security, Voice, video and data ports  
PA and Portable sound system

### **General Classrooms**

Proposed SF: 700 to 750 SF Each  
Science: 1

### **Space Design Concept**

The classrooms should be designed for an integrated approach to technology and multiple furniture arrangements and flexible classroom configurations. The space should function as a general shared instructional space.



### **Program Activities**

Support several teaching styles, including lectures, small group and individual instruction.

### **Loose Furnishings**

Modular rectangular tables with chairs to support up to 25 students  
Circular tables for small groups with chairs  
Fixed computer stations  
Teacher Desk and Chair  
Lateral/vertical file cabinet

### **Fixed Equipment**

Marker/whiteboard  
Tack board & display boards  
Projection screen/surfaces  
Flag Bracket & Flag  
Display and bookshelves  
Tall wardrobe and storage cabinet  
Fixed cabinets and accessible work surfaces

### **Finishes**

Floor material: VCT or Carpet and Rubber Base  
Wall material: Block and /or Sheetrock with paint finish  
Ceiling material: Acoustical Tile  
Hardware: ADA compliant  
Lighting: Multi level direct/indirect  
Windows: Operable with blinds or shades with maximized natural light

### **Special Requirements**

HVAC systems including Air Conditioning

### **Technology**

Power outlet: floor and walls  
Media projection system or Interactive Whiteboard  
Voice, video and data ports  
Security per school safety plan  
Portable sound system  
Wireless & Hard-wired Network  
Integrated public address system

### **Science Department Prep Room and Storage**

Quantity: 4 Total  
Proposed SF: 250 to 300 SF Each

### **Space Design Concept**



The prep room should be designed to accommodate all necessary casework for the preparation of science lab coursework related to the lecture and hands-on / experiment components of the curriculum. The prep rooms will be designed as a lab station to accommodate a fume hood and other equipment necessary for the preparation of the coursework. The work station will also be equipped with a computer, printer and other appropriate equipment. Storage cabinets and shelves will also be provided. A dedicated storage space will be accessed from the prep room.

### **Program Activities**

Science Lab preparatory area and storage space.

### **Loose Furnishings**

Carts with spill prevention lips

Desk and Chair

Lateral file cabinet

### **Fixed Equipment**

Shelves

Secure storage cabinet

Vented Chemical Storage Cabinets

Lab casework with resin tops.

Secure cabinets

Fume hood

Equipment specific to the science discipline.

### **Finishes**

Floor material:	Polished Concrete
Base material:	Rubber
Wall material:	Block / Sheetrock
Wall Finish:	Paint
Ceiling material:	Acoustical Tile
Ceiling height:	8'-0" minimum
Hardware:	ADA compliant - Lockable
Lighting	Standard
Fire extinguisher & suppression	Per code

### **Special Requirements**

HVAC systems and exhaust

Sink

All utilities (Air, Gas, Water, and Power)

### **Technology**

Power outlet – walls and casework

Security per the districts security plan

Voice, video and data ports

Phone / intercom/PA system and data

Computer, Printer, Monitor Etc.





### **Science Department Office**

Quantity: 1

Proposed SF: 100 to 150 SF Each

### **Space Design Concept**

The office should be designed to accommodate the department chairperson, all department faculty/staff and a small conference area. The space should be adjacent to the workroom.

### **Program Activities**

Department leader's office

Conference Space

Teacher Work Stations

### **Loose Furnishings**

Desks and Chairs

Conference table and chairs

Lateral/vertical file cabinet

### **Fixed Equipment**

Marker/whiteboard

Tack board & display boards

Fixed cabinets and accessible work surfaces

### **Finishes**

Floor material: VCT or Carpet with Rubber Base

Wall material: Block and /or Sheetrock with paint finish

Ceiling material: Acoustical Tile

Hardware: ADA compliant

Lighting: Multi level direct/indirect

Windows: Operable with blinds or shades with natural light preferred

### **Special Requirements**

HVAC systems including Air Conditioning

### **Technology**

Power outlet

Media projection system or Interactive Whiteboard

Voice, video and data ports

Security per school safety plan

Wireless & Hard-wired Network

Integrated public address system

### **Educational Program Specifications – Music**



### **Program Objectives**

The Arts have been identified by the U.S. Congress, the College Board, The Partnership for 21st Century Skills, the National Association of Secondary Principals, and the U.S. Department of Education as part of the core curriculum which all students should take as part of their high school program. Music education's mandate in contemporary American education, as stated by the National Association for Music Education, is to provide a varied, significant, and cumulative musical experience for every student. The NFHS Music Department offers diverse learning and performing opportunities in vocal and instrumental music. The program provides opportunities for all students to:

- Recognize the role and importance of music in their own lives and in their cultures
- Perform music from a wide variety of cultural and aesthetic perspectives
- Think critically and creatively
- Work collaboratively
- Develop self-discipline through practice and striving for excellence in their musical performances

All musical performing groups provide students with the opportunity for such leadership roles as student directors and section leaders, and involvement in overall organizational planning. Those students who display exceptional musical talent can be recommended by their directors to compete with students from towns across the state for positions in the All State High School Festival, and the Regional Band, Orchestra, Jazz Ensemble, and Chorus.

### **Program Goals**

Instruction in Music Education involves the 21<sup>st</sup> Century Learning Expectations of writing effectively, reading effectively, speaking effectively, problem-solving effectively, and thinking critically. The WHS Music program offers diverse learning and performing opportunities in vocal and instrumental music. The program provides opportunities for all students to:

- A. Develop skills basic to our highly verbal culture;
- B. Recognize the role and importance of music in their own lives and in their cultures;
- C. Perform music from a wide variety of cultural and aesthetic perspectives;
- D. Think critically and creatively;
- E. Work collaboratively;
- F. Develop self-discipline through practice and striving for excellence in their musical performances.

### **Program Activities to be accommodated**

Students in grades 9-12 may elect a variety of classes in music. Classes may include Music Theory, AP Music Theory, Symphonic Band, Wind Ensemble, String Ensemble.

Co-/extracurriculars include Jazz Band, Rebel Clefs A Cappella, Marching Band, Pep Band, Rebel Players Theater Productions and Spring musical pit orchestra.

### **Space Occupancy and Design Criteria**

The individuals utilizing the space include students and Music department teachers. A special education paraprofessional or a teacher's aide may share space for the instruction of individuals with special needs. The following is a partial list of design elements that should be incorporated into the Music Department rehearsal room spaces:

- The rehearsal room configuration should maximize flexibility for small and large groups.
- Access to technology should be provided throughout the individual and group instructional spaces.
- Digital projection systems should be utilized for visual display.



- Interactive whiteboards should be installed in all instructional areas.
- Ceiling height and windows should maximize natural light and accommodate daylighting.
- Side-lites must be provided adjacent to all classroom doors.
- Cabinets and casework appropriate to the instructional rehearsal spaces should be provided.
- Special consideration should be given for sound transmission to minimize sound infiltration into the adjacent space.
- Speaker systems should be incorporated into all instructional spaces.
- Whiteboards, Tack boards and projection screens should be provided in each instructional space.
- Storage should be provided for student instruments.
- Sinks should be provided in a work room and at the instrument repair area.
- Music instrument equipment storage cabinets should be provided in the band rehearsal room.
- Computer workstations and data connections must be provided at each instructional space.
- Video recording equipment.
- Enhanced ventilation requirements.
- Ceiling heights appropriate to Band and Chorus rehearsal rooms should be provided.
- Student cubbies for student textbook storage near entrance doors of both the Choral and Band areas.
- Band Room
  - The Band Room will house the band and should have an acoustically appropriate space with high ceilings large enough to accommodate up to 100 students. A lockable cabinet or closet to house current percussion equipment, folio cabinets to hold folders for all ensembles, conductor's chair, and podium, and built-in and lockable stereo equipment and tuner are needed. A secure band storage facility adjacent to the band room will house all percussion, electronic equipment, and band music.
- Choral Room/Music Classroom
  - The Chorus/Music Room will house the choral classes and the other music courses (Guitar Workshop, Keyboard Workshop, and History of American Popular Music). The space should be an acoustically appropriate space with high ceilings large enough to accommodate up to 80 students. A lockable cabinet or closet to house current, folders for all ensembles, conductor's chair, and podium, and built-in and lockable stereo equipment and tuner are needed. A secure chorus storage facility adjacent to the rehearsal room will house a piano, guitars, keyboards, and music collection.

### **Proposed Program and Concept Plan**

The new facility will include new appropriately sized Band and chorus room with practice rooms, instrument storage, and a recording studio. Design concept for the music rooms is based on developing space that meet State and National Standard from based on data obtained from the following organizations:

- A. *The State of Connecticut* - Design Guidelines for Educational Facilities
- B. *Music Educators National Conference (MENC)* - Music Facilities: Building Equipment & Renovations by Harold P. Geerdes
- C. *Wenger Corporation* - Planning Guide for Secondary School Music Facilities standards for the design of music facilities.

### **Program Requirements**

The space should be designed as a flexible learning environment that is able to accommodate the specific program requirements. The inclusion of technology and the ability to access technology is an imperative. All



furniture will be evaluated for life expectancy and all furniture and/or equipment that does not meet ADA requirements or is in poor condition will be replaced. The following pages identify specific requirements for each space.

### **Band Rehearsal Room**

Quantity: 1

Proposed SF: 31,750 to 40,000 SF

### **Space Design Concept**

The Band Room will house the various levels of band and jazz band and an acoustically appropriate space with high ceilings large enough to accommodate 75 students. A lockable cabinet or closet to house current percussion equipment, folio cabinets to hold folders for all ensembles, conductor's chair, and podium, and built-in and lockable stereo equipment and tuner are needed. A secure band storage facility adjacent to the band room will house all marching percussion, electronic equipment for jazz, and band music. Access to the auditorium and stage will help to solve schedule conflicts.

### **Program Activities**

Support the instruction and practice of various levels of band and jazz band programs

### **Program Adjacencies**

Access to instrument storage in room along walls Access to seasonal instrument storage - separate Access to practice rooms and to percussion storage

Access to the stage with double doors that accommodate large equipment and instruments.

### **Loose Furnishings**

Music stands w/ carts

Program equipment Storage for music folders

Student Chairs

Mobile computer stations Teacher Desk and Chair Lateral file cabinet

### **Fixed Equipment**

Acoustical treatment

Marker/whiteboard one with music staff and one plain

Tack board & display boards

Projection screen/surfaces

Display and bookshelves

Tall wardrobe and storage cabinet

Fixed cabinets and accessible work surfaces

### **Finishes**

Floor material: VCT

Base material:Rubber

Wall material:

Ceiling material: Acoustical Tile

Hardware: ADA compliant

Lighting Multi-level direct/indirect



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**Special Requirements**

Specialty lighting  
HVAC systems including Air Conditioning  
Natural and indirect Lighting  
Operable windows  
Acoustical Controls and Sound Transmission

**Technology**

Power outlet - floor and wall  
Media projection system / Smartboards  
Security, Voice, video systems and data ports  
Portable sound system

**Band Practice Room**

Quantity: 2-3  
Proposed SF: 50 to 75 SF Each

**Space Design Concept**

The practice room should be designed for an individual practice and instruction.

**Program Activities**

Instrument music practice

**Loose Furnishings**

Music Stand w/carts  
Folding chairs

**Program Adjacencies**

Access to rehearsal rooms  
Access to instrument storage  
Access to percussion storage

**Fixed Equipment**

Acoustical treatment

**Finishes**

Floor material: Carpet  
Base material: Rubber  
Wall material: Block / Gyp  
Ceiling material: Acoustical Tile  
Lighting Multi-level direct/indirect  
Door with large Lite (glass)

**Special Requirements**

HVAC systems including Air Conditioning



Acoustical Controls and Sound Transmission  
Sound Isolated wood door

**Technology**

Power outlet - floor and walls  
Voice, video and data ports  
Security  
Portable sound system  
Technology equipment

**Band/Orchestra Instrument Storage**

Quantity: 1  
Proposed SF: 300 to 450 SF

**Space Design Concept**

The storage should be designed to accommodate students' musical instruments, and music department specific equipment.

**Program Activities**

Storage of educational materials.  
Access to rehearsal room and office

**Loose Furnishings**

Shelving units

**Fixed Equipment**

Secure storage cabinet

**Finishes**

Floor material: Tile  
Base material: Rubber  
Wall material: Block / Gyp  
Ceiling material: Acoustical Tile  
Lighting Standard  
Fire extinguisher & suppression

**Special Requirements**

HVAC systems exhaust  
Humidity control

**Technology**

Power outlet - walls  
Security

**Band / Orchestra General Storage**

Quantity: 1



Proposed SF: 200 to 300 SF

**Space Design Concept**

The storage should be designed to accommodate music supplies media storage, student projects, and music department specific equipment. Located adjacent to the music rehearsal rooms.

**Program Activities**

Storage of educational materials.

**Loose Furnishings**

Lateral file cabinet  
Shelving units

**Fixed Equipment**

Secure storage cabinet

**Finishes**

Floor material: VCT/Carpet  
Base material: Rubber  
Wall material: Block / Gyp  
Ceiling material: Acoustical Tile  
LightingStandard  
Fire extinguisher & suppression

**Special Requirements**

HVAC systems exhaust  
Humidity control

**Technology**

Power outlet - walls  
Security

**Music Office – Chorus / Band / Strings**

Quantity: 1  
Proposed SF: 300 to 350 SF

**Space Design Concept**

The office should be designed to accommodate the department chairperson, all department faculty/staff and a small conference area. The space should be adjacent to the workroom.

**Program Activities**

Department leader's office  
Conference Space  
Teacher Work Stations





### **Loose Furnishings**

Desks and Chairs  
Conference table and chairs  
Lateral/vertical file cabinet

### **Fixed Equipment**

Marker/whiteboard  
Tack board & display boards  
Fixed cabinets and accessible work surfaces

### **Finishes**

Floor material: VCT or Carpet with Rubber Base  
Wall material: Block and /or Sheetrock with paint finish  
Ceiling material: Acoustical Tile  
Hardware: ADA compliant  
Lighting: Multi level direct/indirect  
Windows: Operable with blinds or shades with natural light preferred

### **Special Requirements**

HVAC systems including Air Conditioning

### **Technology**

Power outlet  
Media projection system or Interactive Whiteboard  
Voice, video and data ports  
Security per school safety plan  
Wireless & Hard-wired Network  
Integrated public address system

### **Band Instrument Repair**

Quantity: 1  
Proposed SF: 50 to 100 SF

### **Space Design Concept**

The instrument repair area should be designed to accommodate the storage and repair of instruments.

### **Program Activities**

Instrument repair

### **Loose Furnishings**

Lateral file cabinet  
Shelving Units  
Work Bench

### **Fixed Equipment**



Secure storage cabinet

**Finishes**

Floor material: VCT

Base material: Rubber

Wall material: Block / Sheetrock

Ceiling material: Acoustical Tile

Lighting Standard

Fire extinguisher & suppression

**Special Requirements**

HVAC systems including Air Conditioning

Operable windows or separate exhaust

Deep Sink

**Technology**

Power outlet - walls

Voice, video and data ports

Security

**Band Uniform Storage**

Quantity: 1

Proposed SF: 150 to 200 SF Each

**Space Design Concept**

The storage should be designed to accommodate storage of uniforms.

**Program Activities**

Storage of uniforms

Storage of sheet music, CD's, MP3's & Books

Access to rehearsal room and office

**Loose Furnishings**

Wardrobes and movable storage racks

Shelving units

**Fixed Equipment**

Secure storage cabinet

**Finishes**

Floor material: VCT Tile

Base material: Rubber

Wall material: Block / Gyp



Ceiling material: Acoustical Tile  
Lighting Standard  
Fire extinguisher & suppression

**Special Requirements**

HVAC systems exhaust  
Humidity control

**Technology**

Power outlet - walls  
Security  
Video Voice and Data ports

**Band / Orchestra Storage/Library**

Quantity: 1  
Proposed SF: 100 to 150 SF Each

**Space Design Concept**

The storage should be designed to accommodate music supplies, media storage and sheet and other music department specific equipment.

**Program Activities**

Storage of educational materials.  
Storage of sheet music, CD's, MP3's & Books  
Access to rehearsal room and office

**Loose Furnishings**

Lateral file cabinet  
Shelving units

**Fixed Equipment**

Display and bookshelves  
Secure storage cabinet

**Finishes**

Floor material: Tile  
Base material: Rubber  
Wall material: Block / Gyp  
Ceiling material: Acoustical Tile

Lighting Standard  
Fire extinguisher & suppression

**Special Requirements**

HVAC systems exhaust



Humidity control

**Technology**

Power outlet - walls

Security

**Choral Rehearsal Room**

Quantity: 1

Proposed SF: 1,200 to 1,500 SF

**Space Design Concept**

The Chorus Rehearsal/General Music Classroom will house the various vocal classes and vocal ensembles and an acoustically appropriate space with high ceilings large enough to accommodate 60 students. A lockable cabinet or closet to house current, folders for all ensembles, conductor's chair, and podium, and built-in and lockable stereo equipment and tuner are needed. A secure chorus storage facility adjacent to the rehearsal room will house a piano, portable risers and records. Access to the auditorium and stage is necessary for final rehearsals.

**Program Activities**

Support the instruction and practice of various levels of vocal programs

**Program Adjacencies**

Access to piano storage - separate

Access to practice rooms

Access to portable risers

**Loose Furnishings**

Music stands w/ carts

Program equipment – Baby Grand Piano

Three Tier Risers with ramp

Storage for music folders

Chairs

Teacher Desk and Chair

Lateral file cabinet

**Fixed Equipment**

Acoustical treatment

Marker/white board with music staff & blank

Tack board & display boards

Projection screen/surfaces

Display and bookshelves

Tall wardrobe, storage cabinet and accessible work surfaces

**Finishes**

Floor material: Tile



Base material: Rubber  
Wall material: Block / Gyp  
Ceiling material: Acoustical Tile  
Lighting Multi-level direct/indirect

### **Special Requirements**

Specialty lighting  
HVAC systems including Air Conditioning  
Natural and indirect Lighting & Operable windows  
Acoustical Controls and Sound Transmission

### **Technology**

Power outlet - floor and walls  
Media projection system/smartboard  
Security, Voice, video systems and data ports  
Portable sound system

### **Chorus Practice Room**

Quantity: 2-3  
Proposed SF: 50 to 75 SF Each

### **Space Design Concept**

The practice room should be designed for an individual practice and instruction.

### **Program Activities**

Instrument music practice

### **Loose Furnishings**

Music Stand w/carts  
Folding chairs

### **Program Adjacencies**

Access to rehearsal rooms  
Access to instrument storage  
Access to percussion storage

### **Fixed Equipment**

Acoustical treatment

### **Finishes**

Floor material: Carpet  
Base material: Rubber  
Wall material: Block / Gyp  
Ceiling material: Acoustical Tile  
Lighting Multi-level direct/indirect  
Door with large Lite (glass)



**Special Requirements**

HVAC systems including Air Conditioning  
Acoustical Controls and Sound Transmission  
Sound Isolated wood door

**Technology**

Power outlet - floor and walls  
Voice, video and data ports  
Security  
Portable sound system  
Technology equipment

**Choral Library**

Quantity: 1  
Proposed SF: 100 to 150 SF Each

**Space Design Concept**

The storage should be designed to accommodate music supplies, media storage, student projects, and music department specific equipment. This can be combined with the general storage.

**Program Activities**

Storage of educational materials.  
Storage of sheet music, CD's, MP3's & Books  
Access to rehearsal room and office

**Loose Furnishings**

Lateral file cabinet  
Shelving units

**Fixed Equipment**

Display and bookshelves  
Secure storage cabinet

**Finishes**

Floor material: Tile  
Base material: Rubber  
Wall material: Block / Gyp  
Ceiling material: Acoustical Tile  
Lighting Standard  
Fire extinguisher & suppression

**Special Requirements**

HVAC systems exhaust



Humidity control

**Technology**

Power outlet - walls

Security

**Recording / TV Studio Control Room**

Quantity: 1

Proposed SF: 200 to 350 SF

**Space Design Concept**

The electronic music program space will include a recording and TV studio which will be utilized by the entire high school and will integrate audio and video signal from and to the auditorium and other rehearsal rooms. The studio space will include a control room adjacent to the midi laboratory with the ability for direct supervision.

**Program Activities**

Music composition, recital music and TV recordings, broadcasting and practice.

**Program Adjacencies**

Access to the midi lab / classroom.

**Loose Furnishings** mixing desk & chairs side racks (2)

speaker stands (2)

storage for books, & media (cd's, dvd's) Lateral file cabinet

**Fixed Equipment**

Acoustical treatment

Marker/white board with music staff & blank

Tack board & display boards

Display and bookshelves

Tall wardrobe and storage cabinet

Fixed cabinets and accessible work surface

**Finishes**

Floor material: Carpet

Base material: Rubber

Wall material: Block / Gyp

Ceiling material: Acoustical Tile

Lighting Multi-level direct/indirect

Fire extinguisher & suppression

**Special Requirements**

HVAC systems including Air Conditioning

Natural and specialty Lighting

Operable windows & Interior Window

Acoustical Controls and Sound Transmission





### Technology

Power outlet - floor and walls  
Media projection system  
Security, Voice, video systems and data ports  
Portable sound system

### Recording Studio Live Recording Room

Quantity: 1  
Proposed SF: 300 to 350 SF

### Space Design Concept

The electronic music program space will include a recording studio which will be utilized by the entire department and will integrate signal from to the auditorium and other rehearsal rooms. The studio space will include a control room adjacent to the midi laboratory with the ability for direct supervision. Provide a large window with blinds from the studio to the midi lab.

### Program Activities

Live performance recording in a studio

### Program Adjacencies

Access to the midi lab / classroom.

### Loose Furnishings

Drums, guitars (2), bass w/ amp synthesizer w/ amp  
baby grand piano  
amp & amp stand

### Fixed Equipment

Acoustical treatment	yes
Marker/whiteboard	yes – with music staff & blank

### Finishes

Floor material:	Carpet		
Base material:	Rubber		
Wall material:	Block / Gyp	Finish:	Paint
Ceiling material:	Acoustical Tile	Height:	18'-0" minimum
Lighting	Multi-level direct/indirect		
Fire extinguisher & suppression	Per code		

### Special Requirements

Specialty lighting  
HVAC systems including Air Conditioning  
Acoustical Controls and Sound Transmission

### Technology



Power outlet - floor and walls                      yes  
Media projection system / smartboard  
Security, Voice, video systems and data ports  
Portable sound system

**Recording Studio Isolation Room**

Quantity: 1  
Proposed SF: 50 to 75 SF

**Space Design Concept**

The electronic music program space will include a recording studio which will be utilized by the entire department and will integrate signal from to the auditorium and other rehearsal rooms. The studio space will include a control room adjacent to the midi laboratory with the ability for direct supervision.

**Program Activities**

Live performance recording in a studio

**Program Adjacencies**

Access to the midi lab / classroom.

**Loose Furnishings**

Drums, guitars (2), bass w/ amp synthesizer w/ amp  
baby grand piano  
amp & amp stand

**Fixed Equipment**

Acoustical treatment  
Marker/whiteboard

**Finishes**

Floor material: Carpet  
Base material: Rubber  
Ceiling material: Acoustical Tile  
Lighting Multi-level direct/indirect

**Special Requirements**

Specialty lighting  
HVAC systems including Air Conditioning  
Indirect Lighting  
Interior Window  
Acoustical Controls and Sound Transmission

**Technology**

Power outlet - floor and walls  
Media projection system / smartboard  
Voice, video and data ports



Security  
Portable sound system

## **Educational Program Specifications – Art**

### **Program Objectives**

The Arts have been identified by the U.S. Congress, the College Board, The Partnership for 21<sup>st</sup> Century Skills, the National Association of Secondary Principals, and the U.S. Department of Education as part of the core curriculum which all students should take as part of their high school program. The NFHS Art Department offers diverse learning opportunities including painting, drawing, sculpture, ceramics, crafts, printmaking, and design. Courses emphasize problem solving, visual literacy and higher order thinking skills and offer all students the opportunity to:

- Recognize the role and importance of art and artists in society, culture, and history
- Critically assess works of art from many aesthetic and cultural perspectives
- Communicate visually
- Think critically and creatively
- Express their own feelings and ideas

Opportunities exist for students to display their artwork within the school, district, and the greater community. Those students who display exceptional artistic talent can be recommended by their teachers to submit their work to the Connecticut Regional Scholastic Arts Awards Program, a juried student art show, featuring work created by students from across the state

The arts play a profound role in learning. Experiences in the arts are basic to learning. The arts curriculum offers one way to formulate questions, construct knowledge, express meaning, and solve problems. The arts enhance language facility and the development of expressive skills. Self-esteem, social awareness, critical thinking, sensitivity to others, sensitivity to one's environment, and problem solving are all enhanced with the dynamics of arts infused approach.

### **Program Goals**

Instruction in Art involves the 21<sup>st</sup> Century Learning Expectations of writing effectively, reading effectively, speaking effectively, problem-solving effectively, and thinking critically. The goals of the art program include:

- A. Development of proficiency in the use of a variety of tools, materials, and techniques;
- B. Development of an understanding of the elements and principles of design;
- C. Development of a student's ability to intelligently judge art and show an appreciation of the visual arts;
- D. Development of visual perception and to challenge students to work toward excellence;
- E. Direction for students who are seeking art-related careers;
- F. Inspiration toward creativity so that students' lives may be enriched.

### **Program Activities to be Accommodated**



Studios are needed to accommodate all art courses. A computer graphics lab is needed for digital photography and graphics classes. A kiln room is needed for the clay component. A multipurpose lecture room is needed for slide and video presentations and lectures, as well as the collaborative classes. Display cases for student work should be created throughout the school as well as an art exhibition space at the main entrance of the school

### **Space Occupancy and Design Criteria**

The individual utilizing the space include the students and Art department teachers. A special education paraprofessional, or a teacher's aide may share space for the instruction of individuals within the regular art studio. The following is a partial list of design elements that should be incorporated into the studio spaces:

- The studio configuration should maximize flexibility and provide lecture as well as studio space.
- Access to technology should be provided through the studio.
- Digital projection systems should be utilized for visual display.
- Interactive whiteboards should be installed in all instructional areas.
- Ceiling height and windows should maximize natural light and accommodate daylighting.
- Sidelites must be provided adjacent to all classroom doors.
- Cabinets and casework appropriate to the instructional studio function should be provided.
- Special consideration should be given for sound transmission at operable and standard walls to minimize sound infiltration into the adjacent space.
- Speaker systems should be incorporated into all instructional spaces.
- Whiteboards, Tack boards and projection screens should be provided in each instructional space.
- Storage should be provided for ongoing student projects within the studio and in storage rooms.
- Large deep sinks with clay-traps.
- Adjustable multi directional lighting.
- Art courtyard for student instruction and sculpture displays.
- Student display gallery.
- Computer graphic workstations within the studio and a graphics lab shared with the Technology Education department.
- Dedicated Kiln Room
- Enhanced ventilation requirements.
- Student display shelving in all studios.

### **Proposed Program and Concept Plan**

The educational program space outlined below is based on building new to meet the program objectives established for New Fairfield High School. The studio and program space should be designed to provide the department flexibility based on enrollment and the needs of particular courses. The studios will have computer graphic workstations for small groups. The Art Department workroom and office is located between the studios with access to each space. The studios should also be placed near each other and in a central location easily accessible by students from both schools.

### **Program Requirements**

The Art Department space requirements include two studios, storage rooms, kiln room, graphics lab and offices. The space should be designed as a flexible learning environment that is able to accommodate the specific program requirements. The inclusion of technology and computer graphics with a graphics lab and the ability to access technology within the studio is an imperative.



**Art Studio – 3D**

Quantity: 1

Proposed SF: 1,200 to 1,400 SF

**Space Design Concept**

The classroom should be designed for an integrated approach to technology and multiple furniture arrangements and classroom configurations. The space will function as an office for the teachers.

**Program Activities**

Support a number of teaching styles, including lectures, small group and individual instruction. Display of student work and appropriate storage for on-going projects is required in each studio.

**Loose Furnishings**

- Modular rectangular art tables with chairs
- Circular tables for small groups with chairs
- Pottery Wheels
- Mobile computer stations
- Teacher Desk and Chair
- Lateral file cabinet

**Fixed Equipment**

- Acoustical treatment
- Marker/whiteboard (Multiple)
- Tack board & display boards
- Projection screen/surfaces
- Display and book shelves along one wall / will be the department storage space
- Tall wardrobe and storage cabinet along one wall / will be the department storage space
- Fixed cabinets and accessible work surface

**Finishes**

- Floor material: Polished Concrete
- Base material: Rubber / Vinyl
- Wall material: Block / Sheetrock
- Ceiling material: Open ceiling
- Lighting Multi level direct/indirect
- Windows Operable with blinds - Maximize natural light
- Fire extinguisher & suppression

**Special Requirements**

- Specialty lighting
- Deep sinks with clay traps
- HVAC systems including Air Conditioning
- Natural and indirect/direct Lighting / Operable windows



Power requirements for potters' wheels  
Floor drains with clay traps and access panels.  
Adjacent Kiln Room with separate storage room.

### **Technology**

Power outlet - floor and walls  
Media projection system  
Voice, video and data ports  
Security  
Portable sound system  
Integrated public address system

### **Art Studio – 2D**

Quantity: 1  
Proposed SF: 1,200 to 1,400 SF

### **Space Design Concept**

The classroom should be designed for an integrated approach to technology and multiple furniture arrangements and classroom configurations. The space will function as an office for the teachers.

### **Program Activities**

Support a number of teaching styles, including lectures, small group and individual instruction. Display of student work and appropriate storage for on-going projects is required in each studio.

### **Loose Furnishings**

Modular rectangular art tables with chairs  
Circular tables for small groups with chairs  
Mobile computer stations  
Teacher Desk and Chair  
Lateral file cabinet

### **Fixed Equipment**

Acoustical treatment  
Marker/whiteboard (Multiple)  
Tack board & display boards  
Projection screen/surfaces  
Display and book shelves along one wall / will be the department storage space  
Tall wardrobe and storage cabinet along one wall / will be the department storage space  
Fixed cabinets and accessible work surface

### **Finishes**

Floor material: Polished Concrete  
Base material: Rubber / Vinyl  
Wall material: Block / Sheetrock  
Ceiling material: Open ceiling  
Lighting Multi level direct/indirect

# New Fairfield High School

## Educational Specifications

June 2019

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Windows Operable with blinds - Maximize natural light  
Fire extinguisher & suppression

### **Special Requirements**

Specialty lighting  
Deep sinks with clay traps  
HVAC systems including Air Conditioning  
Natural and indirect/direct Lighting / Operable windows  
Power requirements for potters' wheels  
Floor drains with clay traps and access panels.  
Adjacent Kiln Room with separate storage room.

### **Technology**

Power outlet - floor and walls  
Media projection system  
Voice, video and data ports  
Security and Integrated public address system  
Portable sound system

### **Graphics Lab**

Quantity: 1 (shared with Technology Department)  
Proposed SF: 1000 to 1,200 SF

### **Space Design Concept**

The classroom should be designed for an integrated approach to technology and multiple furniture arrangements and classroom configurations. The computers should be along the wall with a center table used for lecture/cooperative style instruction.

### **Program Activities**

Support a number of teaching styles, including lectures, small group and individual instruction.

### **Loose Furnishings**

Modular rectangular art tables with chairs  
Circular tables for small groups with chairs  
Mobile computer stations  
Teacher Desk and Chair  
Lateral file cabinet

### **Fixed Equipment**

Acoustical treatment  
Marker/whiteboard (Multiple)  
Tack board & display boards  
Projection screen/surfaces  
Display and book shelves along one wall / will be the department storage space  
Tall wardrobe and storage cabinet along one wall / will be the department storage space





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Fixed cabinets and accessible work surface

**Finishes**

Floor material: Carpet  
Base material: Rubber / Vinyl  
Wall material: Block / Sheetrock  
Ceiling material: Acoustical ceiling  
Lighting Multi level direct/indirect  
Windows Operable with blinds - Maximize natural light  
Fire extinguisher & suppression

**Special Requirements**

Specialty lighting Multi-Level  
HVAC systems including Air Conditioning  
Natural and indirect/direct Lighting  
Operable windows

**Technology**

Power outlet - floor and walls  
Media projection system  
Voice, video and data ports  
Security and Integrated public address system  
Portable sound system

**Art Department Storage**

Quantity: 1 (shared by both Art Rooms)  
Proposed SF: 250 to 400 SF

**Space Design Concept**

The storage should be designed to accommodate art supplies, media storage, student projects, drying racks and art department specific equipment.

**Program Activities**

Storage of educational materials.

**Fixed Equipment**

Shelves  
Secure storage cabinet

**Finishes**

Floor material: Polished Concrete  
Base material: Rubber  
Wall material: Block / Sheetrock  
Wall Finish: Paint  
Ceiling material: Acoustical Tile  
Lighting Standard



Fire extinguisher & suppression

**Special Requirements**

HVAC systems exhaust

**Technology**

Power outlet - walls

Security

**Art Department Workroom and Office**

Quantity: 1 (Shared by both Art Rooms)

Proposed SF: 150 to 250 SF

**Space Design Concept**

The workroom should be designed to accommodate an office space with work/planning area.

**Program Activities**

Teacher planning and preparation room.

**Loose Furnishings**

Desks and Chair - 2

Computer stations

Workstation for each teacher

Lateral/vertical file cabinet

**Fixed Equipment**

Acoustical treatment

Marker/whiteboard (Multiple)

Tack board & display boards

Projection screen/surfaces

Display and bookshelves

Tall wardrobe and storage cabinet will be the department storage space

Fixed cabinets and accessible work surfaces

**Finishes**

Floor material: Polished Concrete / Carpet

Base material: Rubber / Vinyl

Wall material: Block / Sheetrock

Ceiling material: Acoustical Tile

Hardware: ADA compliant

Lighting: Multi level direct/indirect

Windows: Operable with blinds - Maximize natural light

**Special Requirements**



Specialty lighting  
HVAC systems including Air Conditioning  
Natural and indirect/direct Lighting  
Operable windows

### **Technology**

Power outlet - floor and walls  
Voice, video and data ports  
Security and Integrated public address system  
Portable sound system

## **Educational Program Specifications – Technology Education**

### **Program Objectives**

The Technology Education Department provides a link from the traditional areas of study to the technologies of the future. Technology Education is based on experiential learning models and career exploration that is available to all students. The department goal is to expose students to a wide array of technological experiences and gain applied experiences in the traditional study areas. The manufacturing and construction lab provide students with an understanding of woods, metals and other material, in the career path of construction and manufacturing. Students explore careers in engineering in the Robotics and engineering Lab. The Video production, CAD, digital photography and graphics curriculum remain a focal point in the Technology Education Department. The Art program will collaborate and share the graphics lab and lecture spaces with the technology education department.

The technology education department's facilities will enable the instruction in topics such as, alternative energy, architectural design, biotechnology design, biotechnology, communication, construction technology, digital electronics, environmental technology, engineering, manufacturing technology, materials science, multimedia, robotics and automation, and transportation technology.

All programs are designed to contain points of integration for self-reflection, evaluation, writing, reasoning and analysis using mathematical models with a strong connection to the sciences.

### **Program Activities to be Accommodated**

The Technology and Engineering Coursework focuses on the development and application of technology and the effect that technology has on people, society and the environment. Future programming offered through such pathways as Project Lead the Way and Amazon Young Engineer Program.

### **Space Occupancy**

The individual utilizing the space include the students and teachers. The following is a partial list of design elements that should be incorporated into the technology education spaces:

- The Lab configuration should maximize flexibility and provide lecture as well as lab space.
- Access to technology should be provided through the Labs
- Digital projection systems should be utilized for visual display.
- Interactive whiteboards should be installed in all instructional areas.
- Ceiling height and windows should maximize natural light and accommodate delighting.



- Sidelites must be provided adjacent to all classroom doors.
- Cabinets and casework appropriate to the instructional studio function should be provided.
- Special consideration should be given for sound transmission at operable and standard walls to minimize sound infiltration into the adjacent space.
- Speaker systems should be incorporated into all instructional spaces.
- Whiteboards, Tack boards and projection screens should be provided in each instructional space.
- Storage should be provided for ongoing student projects within the lab and in storage rooms.
- Large deep sinks, eyewash, body showers and other safety equipment.
- Adjustable multi directional lighting.
- Student display gallery.
- Computer graphic workstations within the studio and a graphics lab shared with the Art department.
- Stagecraft is a shared space with the arts and theater program.
- Video recording equipment.
- Enhanced ventilation requirements including dust collection if required.
- Student display shelving in all Labs.
- Appropriate work station for each lab based on the program requirements.

### **CADD/DESIGN LAB**

Quantity: 1

Proposed SF: 1,000 to 1,200 SF

### **Space Design Concept**

The lab should be designed for an integrated approach to technology and multiple furniture arrangements and room configurations.

### **Program Activities**

Support a number of teaching styles, including lectures, small group and individual instruction. The lab will be equipped with computer workstations and planning areas for all students. Large format printing, storage of printing and electronic supplies and presentations of student work need to be accommodated.

### **Loose Furnishings**

Workstations with side tables for large format documents

Circular tables for small groups with chairs

Teacher Desk and Chair

Lateral file cabinet

Various printers

### **Fixed Furnishings**

Acoustical treatment

Marker/whiteboard (Multiple)

Tack board & display boards

Projection screen/surfaces

Display and bookshelves

Tall wardrobe and storage cabinet

Fixed cabinets and accessible work surfaces



### **Finishes**

Floor material: Concrete

Base material: Rubber / Vinyl

Wall material: Block / Sheetrock

Ceiling material: Acoustical ceiling

Lighting: Multi-level direct/indirect and task lighting

Windows: Operable with blinds

### **Special Requirements**

Specialty lighting

Dedicated electrical circuits with a UPS backup system

HVAC systems including Air Conditioning

Natural and indirect/direct Lighting

Operable windows

Door to open to Manufacturing Lab

### **Technology**

Power outlet - floor and walls

Media projection system

Voice, video and data ports

Security System

Portable sound system

Technology equipment

Wireless & Hard-wired Network per the district's technology plan

Integrated public address system

### **Video Production Studio**

Quantity: 1

Proposed SF: 700 to 1,000 SF

### **Space Design Concept**

The students should be able to demonstrate the fundamental knowledge and application of the elements of audio-video production and execution. Technical knowledge will be realized through workshop experiences, which combine theory and hands-on practice. The studio may be shared with the local community access television group. The studio should be designed for an integrated approach to technology. This space should be adjacent to the video production lab.

### **Program Activities**

Students will produce live television cable casts. students will also participate in other production and post-production editing.

### **Loose Furnishings**

Circular tables for small groups with chairs

Mobile computer stations

Teacher Desk and Chair



Lateral file cabinets

### **Fixed Furnishings**

Acoustical treatment  
Marker/whiteboard (Multiple)  
Tack board & display boards  
Projection screen/surfaces  
Tall wardrobe and storage cabinet  
Fixed cabinets and accessible work surfaces  
Green screen background

### **Finishes**

Floor material: VCT /VET and Area Rug  
Base material: Rubber / Vinyl  
Wall material: Block / Sheetrock  
Ceiling material: Open ceiling with pipe grid  
Lighting: Multi-level direct/indirect studio lighting  
Windows: No  
Fire extinguisher & suppression

### **Special Requirements**

Specialty lighting (assorted systems, roughly 6-7 units for a small space)  
Dedicated electrical circuits with a UPS backup system  
HVAC systems including Air Conditioning  
1 video switcher  
2 Canon, XL-2 ( with chargers and cases) or similar equipment  
2 Bogen-Manfrotta tripods, 2 tripod carriages or similar equipment  
2 teleprompters, 2 way wireless intercom system with multiple headsets (preferable 4 terminals), 6  
Microphones (2 stick, 4 lavalier) 2, 22 inch monitors (preferably flat screen)  
Curtains for backdrops

### **Technology**

Power outlet - floor and walls  
Media projection system  
Security, Voice, video systems and data ports  
Portable sound system and Integrated public address system

### **Video Production Lab- Control Room & Video Editing**

Quantity: 1  
Proposed SF: 150 to 250 SF

### **Space Design Concept**

The students should be able to demonstrate the fundamental knowledge and application of the elements of audio-video production and execution. Technical knowledge will be realized through workshop experiences, which combine theory and hands-on practice. The lab may be shared with the local community access



television group. The lab should be designed for an integrated approach to technology. This space should be adjacent to the video production studio.

### **Program Activities**

Students will also participate in production and post-production editing.

### **Loose Furnishings**

Workstations with editing equipment  
Teacher Desk and Chair  
Lateral file cabinets

### **Fixed Furnishings**

Acoustical treatment  
Marker/whiteboard (Multiple)  
Tack board & display boards  
Projection screen/surfaces  
Tall wardrobe and storage cabinet  
Fixed cabinets and accessible work surfaces

### **Finishes**

Floor material: VCT /VET  
Base material: Rubber / Vinyl  
Wall material: Block / Sheetrock  
Ceiling material: Open ceiling  
Lighting: Multi-level direct/indirect studio lighting  
Windows: No  
Fire extinguisher & suppression

### **Special Requirements**

Specialty lighting  
Dedicated electrical circuits with a UPS backup system  
HVAC systems including Air Conditioning

### **Technology**

Power outlet - floor and walls  
Media projection system  
Security, Voice, video systems and data ports  
Portable sound system and Integrated public address system

### **Technology Education Department Storage**

Quantity: 2  
Proposed SF: 250 to 350 SF – 1 CADD & Graphics  
Proposed SF: 150 to 200 SF – 1 Video Studio

### **Space Design Concept**





The storage should be designed to accommodate supplies, media storage, student projects, and department specific equipment.

**Program Activities**

Storage of educational materials.

**Fixed Equipment**

Shelves

Secure storage cabinet

**Finishes**

Floor material: Polished Concrete

Base material: Rubber

Wall material: Block / Sheetrock

Wall Finish: Paint

Ceiling material: Acoustical Tile

Ceiling height: 8'-0" minimum

Hardware: ADA compliant - Lockable

Lighting: Standard LED layin

Fire extinguisher & suppression

**Special Requirements**

HVAC systems exhaust

**Technology**

Power outlet - walls

Security

**Robotics, Engineering, Energy & Transportation**

Quantity: 1

Proposed SF: 1,500 to 2,000 SF Each

**Space Design Concept**

The robotics, engineering, energy and transportation lab should be designed for an integrated approach to technology and flexibility of equipment configurations.

**Program Activities**

Support a number of teaching styles, including lectures, small group and individual instruction for programming offered through such pathways as Project Lead the Way and Amazon Young Engineer Program.

**Loose Furnishings**

Table for small groups with chairs

Mobile computer stations



Work Tables  
Teacher Desk and Chair  
Lateral file cabinet

### **Fixed Furnishings**

Acoustical treatment  
Marker/whiteboard (Multiple)  
Tack board & display boards  
Projection screen/surfaces  
Tall wardrobe and storage cabinet  
Fixed cabinets and accessible work surfaces

### **Finishes**

Floor material: VCT /VET  
Base material: Rubber / Vinyl  
Wall material: Block / Sheetrock  
Ceiling material: Open ceiling  
Lighting: Multi-level direct/indirect studio lighting  
Windows: Maximize natural light  
Fire extinguisher & suppression

### **Special Requirements**

Specialty lighting Multi-Level  
HVAC systems including Air Conditioning  
Overhead electrical power cables  
Operable windows  
Open lab floor space  
Eyewash and Body Shower

### **Technology**

Power outlet - floor and walls  
Media projection system  
Security, Voice, video systems and data ports  
Portable sound system and Integrated public address system

### **Stagecraft, Manufacturing & Construction**

Quantity: 1  
Proposed SF: 1,000 to 1,500 SF

### **Space Design Concept**

The lab should be designed for an integrated approach to technology and multiple furniture and equipment arrangements. The space must be flexible to accommodate a variety of construction and manufacturing disciplines.

### **Program Activities**

Practical application instruction in construction technology, set design, and manufacturing.



### **Loose Furnishings**

Workstations with chairs/stools  
Table for small groups with chairs  
Mobile computer station  
Work Tables  
Teacher Desk and Chair  
Lateral file cabinet  
Portable equipment carts  
Portable dust collection system

### **Fixed Furnishings**

Acoustical treatment  
Marker/whiteboard (Multiple)  
Tack board & display boards  
Projection screen/surfaces  
Tall wardrobe and storage cabinet  
Fixed cabinets and accessible work surfaces

### **Finishes**

Floor material: Polished Concrete  
Base material: Rubber / Vinyl  
Wall material: Block / Sheetrock  
Ceiling material: Open ceiling  
Lighting: Multi-level direct/indirect studio lighting  
Windows: Maximize natural light  
Fire extinguisher & suppression

### **Special Requirements**

Specialty lighting Multi-Level  
HVAC systems including Air Conditioning  
Natural and indirect/direct Lighting  
Flexible power capabilities  
Operable windows  
Eyewash and Body Shower

### **Technology**

Power outlet - floor and walls  
Media projection system  
Security, Voice, video systems and data ports  
Portable sound system and Integrated public address system

### **Culinary and Hospitality - Kitchen**

Quantity: 1  
Proposed SF: 2,000 to 2,500 SF



### **Space Design Concept**

The lab should be designed as a commercial kitchen with appropriate storage for dry goods, refrigerated foods and frozen foods. The space must be flexible to accommodate a foods program.

### **Program Activities**

Practical application instruction in culinary arts

### **Loose Furnishings**

Workstations with chairs/stools  
Table for small groups with chairs  
Mobile computer station  
Work Tables  
Teacher Desk and Chair  
Lateral file cabinet  
Portable equipment carts  
Kitchen equipment

### **Fixed Equipment**

Acoustical treatment  
Marker/whiteboard (Multiple)  
Tack board & display boards  
Projection screen/surfaces  
Flag Bracket & Flag  
Display and bookshelves  
Tall wardrobe and storage cabinet

### **Finishes**

Floor material: Quarry tile  
Base material: Tile  
Wall material: FRP washable finish  
Ceiling material: Washable acoustical ceiling  
Lighting: Multi level direct/indirect  
Windows: Operable with blinds - Maximize natural light  
Fire extinguisher & suppression

### **Special Requirements**

Specialty lighting Multi-Level  
HVAC systems including Air Conditioning  
Natural and indirect/direct Lighting  
Flexible power capabilities  
Operable windows  
Kitchen equipment

### **Technology**

Power outlet - floor and walls

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Media projection system  
Voice, video and data ports  
Security and Portable sound system  
Integrated public address system

### **Culinary and Hospitality – Restaurant Seating / Lecture / Classroom**

Quantity: 1

Proposed SF: 700 to 1,000 SF

### **Space Design Concept**

The hospitality room should be designed as a dual function space with restaurant seating and classroom planning layout. This space should function as a venue for small events. The space must be adjacent to the foods program.

### **Program Activities**

Practical application instruction in culinary and service industry.

### **Loose Furnishings**

Workstations with chairs/stools  
Table for small groups with chairs  
Mobile computer station  
Work Tables  
Teacher Desk and Chair  
Lateral file cabinet

### **Fixed Equipment**

Acoustical treatment  
Marker/whiteboard (Multiple)  
Tack board & display boards  
Projection screen/surfaces  
Flag Bracket & Flag  
Display and bookshelves  
Tall wardrobe and storage cabinet

### **Finishes**

Floor material: VCT/VET  
Base material: Rubber  
Wall material: Paint  
Ceiling material: Acoustical ceiling  
Lighting: Multi level direct/indirect  
Windows: Operable with blinds - Maximize natural light  
Fire extinguisher & suppression

### **Special Requirements**

Specialty lighting Multi-Level



HVAC systems including Air Conditioning  
Natural and indirect/direct Lighting  
Flexible power capabilities  
Operable windows

### **Technology**

Power outlet - floor and walls  
Media projection system  
Voice, video and data ports  
Security and Portable sound system  
Integrated public address system

### **Fashion & Costume Design**

Quantity: 1  
Proposed SF: 700 to 1,000 SF

### **Space Design Concept**

The lab should be designed for an integrated approach to technology and multiple furniture and equipment arrangements. The space must be flexible to accommodate a planning and design areas, changing /dressing room, and sewing areas.

### **Program Activities**

Practical application instruction in fashion and costume design.

### **Loose Furnishings**

Workstations with chairs/stools  
Table for small groups with chairs  
Mobile computer station  
Work Tables  
Teacher Desk and Chair  
Lateral file cabinet  
Portable equipment carts  
Sewing machines

### **Fixed Equipment**

Acoustical treatment  
Marker/whiteboard (Multiple)  
Tack board & display boards  
Projection screen/surfaces  
Flag Bracket & Flag  
Display and bookshelves  
Tall wardrobe and storage cabinet

### **Finishes**

Floor material: VCT/VET  
Base material: Rubber

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Wall material: Paint  
Ceiling material: Acoustical ceiling  
Lighting: Multi level direct/indirect  
Windows: Operable with blinds - Maximize natural light  
Fire extinguisher & suppression

### **Special Requirements**

Specialty lighting Multi-Level  
HVAC systems including Air Conditioning  
Natural and indirect/direct Lighting  
Flexible power capabilities  
Operable windows

### **Technology**

Power outlet - floor and walls  
Media projection system  
Voice, video and data ports  
Security and Portable sound system  
Integrated public address system

### **Child Development Lab**

Quantity: 1  
Proposed SF: 750 to 1,000 SF

### **Space Design Concept**

The child development lab should be designed for an integrated approach to technology and flexibility for multiple furniture and equipment arrangements. The space will be designed for use by preschool students and must accommodate a variety of activity areas for physical therapy, art, story-time etc.

### **Program Activities**

Instruction in early childhood learning

### **Loose Furnishings**

Workstations with chairs/stools for children ages 3 to 5 years  
Table for small groups with chairs  
Mobile computer station  
Work Tables  
Teacher Desk and Chair  
Lateral file cabinet

### **Fixed Equipment**

Acoustical treatment  
Marker/whiteboard (Multiple)  
Tack board & display boards





Projection screen/surfaces  
Flag Bracket & Flag  
Display and bookshelves  
Tall wardrobe and storage cabinet

### **Finishes**

Floor material: VCT/VET and /or Carpet  
Base material: Rubber  
Wall material: Paint  
Ceiling material: Acoustical ceiling  
Lighting: Multi level direct/indirect  
Windows: Operable with blinds - Maximize natural light  
Fire extinguisher & suppression

### **Special Requirements**

Specialty lighting Multi-Level  
HVAC systems including Air Conditioning  
Natural and indirect/direct Lighting  
Operable windows

### **Technology**

Power outlet - floor and walls  
Media projection system  
Voice, video and data ports  
Security and Portable sound system  
Integrated public address system

## **Educational Program Specifications – Business**

### **Program Objectives**

The Business Education program is designed to develop a student's understanding of business, technology and economic concepts. It seeks to integrate academic concepts and technology application throughout the curriculum. It is tasked with providing students the ethical conduct and effective communication skills, which are needed to function as an effective employee and leader in the American free-market business system. Students acquire valuable business, life and personal skills necessary to function in today's dynamic and diverse world. The NFHS Business curriculum focuses on developing the academic, thinking and interpersonal skills needed to become a productive worker, an economically successful entrepreneur and a keen consumer. The Business Department also manages the School Store, which is currently housed by the school cafeteria.

### **Program Goals**

Instruction in Business Department involves the 21<sup>st</sup> Century Learning Expectations of writing effectively, reading effectively, speaking effectively, problem-solving effectively, and thinking critically. The goals of the Business program include the development of broad transferable skills which stress the understanding and demonstration of the following elements of the workplace:

- A. Planning, management, and financial skills;



- B. Technical and production skills;
- C. Labor, community, health, safety, and environmental issues;
- D. Marketing and presentation issues.

### **Program Activities to be accommodated**

Activities to be housed include large and small group instruction and class work. Students will discuss, read, write, word process, present, access technological resources and conduct research, applying skills and content learned by utilizing material available in the classroom, as well as through the technological resources of voice, video, and print media. All classes will have intense computer lab needs and each classroom must be large enough to accommodate students working on computers in small and large groups. In addition, activities include large and small group instruction, meetings and individual work areas. Access to an Entrepreneurial Center will be necessary. Students will discuss, read, write, present, conduct research, access technological resources, program, compute, attend meetings, interact with the public, problem solve, connect virtually with others, debate, and work collaboratively. Space must allow for teacher supervision of small groups and acoustics must be appropriate to control the noise level. All students are also required to meet individually with teachers in conference therefore appropriate quiet space should be provided.

### **Space Occupancy and Design Criteria**

The Business Department classrooms include the students and Business department teachers. Depending on the course, a special education teacher, paraprofessional, or a reading/writing resource teacher may share space for the instruction of small groups or individuals within the regular classroom. The following is a partial list of design elements that should be incorporated into all instructional spaces:

- The classroom configuration should maximize flexibility and interaction within and among the instructional areas for development of teaching teams and student learning.
- Each classroom should have the capability for a large number of computers.
- Digital projection systems should be utilized for visual display.
- Interactive whiteboards should be installed in all instructional areas, which should be connected to an audio-visual system and a computer.
- Ceiling height and windows should maximize natural light and accommodate daylight.
- A Glass side-lite must be provided adjacent to all classroom doors.
- Cabinets and casework appropriate to the instructional classroom function should be provided. General classrooms should be provided with a minimum of 12 linear feet of casework, while specialty spaces should be designed to accommodate the program requirements.
- Special consideration should be given for sound transmission to minimize sound infiltration into the adjacent space.
- Whiteboards and Bulletin Boards should be provided in each instructional space.
- Flat screens display systems with access to television news channels
- Storage for supplies and projects

### **Proposed Program and Concept Plan**

The educational program space outlined below is based on building a new facility to meet the program objectives established for New Fairfield High School. The classroom should be designed to provide the department flexibility in the assignment of rooms based on enrollment in particular courses. The classrooms should also be placed in a more central location easily accessible by students from both schools. This will also provide better access to the school store which is connected to the cafeteria.



### **Program Requirements**

The Business Department space requirements will include shared classrooms a multipurpose computer lab and school store. The classroom space will be shared with other departments. All furniture will be evaluated for life expectancy and all furniture and/or equipment that do not meet ADA requirements or is in poor condition will be replaced.

### **Business Classroom/Laboratory**

Quantity: 1-2

Proposed SF: 1,000 to 1.250 SF Each

### **Space Design Concept**

The Business classroom/laboratory should be designed for an integrated approach to technology. The furniture arrangements should accommodate a teacher workstation in the front of the room classroom configurations. A central table/student work area in the center of the room. The space will function as general classroom.

### **Program Activities**

Support a number of teaching styles, including lectures, small group and individual instruction.

### **Loose Furnishings**

Workstations with chairs/stools

Table for small groups with chairs

Mobile computer station

Work Tables

Teacher Desk and Chair

Lateral file cabinet

### **Fixed Equipment**

Acoustical treatment

Marker/whiteboard (Multiple)

Tack board & display boards

Projection screen/surfaces

Flag Bracket & Flag

Display and bookshelves

Tall wardrobe and storage cabinet

### **Finishes**

Floor material: VCT/VET and /or Carpet

Base material: Rubber

Wall material: Paint

Ceiling material: Acoustical ceiling

Lighting: Multi level direct/indirect

Windows: Operable with blinds - Maximize natural light

### **Special Requirements**

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Specialty lighting Multi-Level  
HVAC systems including Air Conditioning  
Natural and indirect/direct Lighting  
Operable windows

### **Technology**

Power outlet - floor and walls  
Media projection system  
Voice, video and data ports  
Security and Portable sound system  
Integrated public address system  
20 computers with DVD player and 17" LCD monitors connected to network, printer and Internet  
DVD connected to data projector  
Printer with scanner

### **School Store/Business Department**

Quantity: 1  
Proposed SF: 100 to 200 SF

### **Space Design Concept**

The school store should be designed to accommodate items for sale, storage of merchandise and appropriate point of sale space. It should be centrally located and near the Business Department space in a high traffic area. Provide a window wall for viewing of merchandise from outside of store.

### **Program Activities**

Sale of school merchandise.

### **Fixed Equipment**

Shelves  
Secure storage room

### **Finishes**

Floor material: VCT  
Base material: Rubber  
Wall material: Block / Sheetrock  
Wall Finish: Paint  
Ceiling material: Acoustical Tile  
Ceiling height: 8'-0" minimum  
Hardware: ADA compliant - Lockable  
Lighting: LED Standard

### **Special Requirements**

HVAC systems exhaust  
Stand-up Refrigerator with glass door



**Technology**

Power outlet - walls  
Security

**Business Workroom**

Quantity: 1  
Proposed SF: 150 to 200 SF Each Department

**Space Design Concept**

The workroom should be designed to accommodate a work/planning area, a heavy-duty copier, limited equipment and secure storage. The workroom could be shared with one or more departments and be part of a department office.

**Program Activities**

Teacher planning and preparation room.

**Loose Furnishings**

Compute Stations  
Work tables and chairs  
Lateral/vertical file cabinet

**Fixed Equipment**

Marker/whiteboard  
Tack board & display boards  
Fixed cabinets and accessible work surfaces

**Finishes**

Floor material: VCT or Carpet with Rubber Base  
Wall material: Block and /or Sheetrock with paint finish  
Ceiling material: Acoustical Tile  
Hardware: ADA compliant  
Lighting: Multi level direct/indirect  
Windows: Operable with blinds or shades with natural light preferred

**Special Requirements**

HVAC systems including Air Conditioning

**Technology**

Power outlet  
Media projection system or Interactive Whiteboard  
Voice, video and data ports  
Security per school safety plan  
Wireless & Hard-wired Network  
Integrated public address system

**Business Office**

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Quantity: 1

Proposed SF: 100 to 150 SF Each Department

### **Space Design Concept**

The office should be designed to accommodate the department chairperson, all department faculty/staff and a small conference area. The space should be adjacent to the workroom.

### **Program Activities**

Department leader's office

Conference Space

Teacher Work Stations

### **Loose Furnishings**

Desks and Chairs

Conference table and chairs

Lateral/vertical file cabinet

### **Fixed Equipment**

Marker/whiteboard

Tack board & display boards

Fixed cabinets and accessible work surfaces

### **Finishes**

Floor material: VCT or Carpet with Rubber Base

Wall material: Block and /or Sheetrock with paint finish

Ceiling material: Acoustical Tile

Hardware: ADA compliant

Lighting: Multi level direct/indirect

Windows: Operable with blinds or shades with natural light preferred

### **Special Requirements**

HVAC systems including Air Conditioning

### **Technology**

Power outlet

Media projection system or Interactive Whiteboard

Voice, video and data ports

Security per school safety plan

Wireless & Hard-wired Network

Integrated public address system

### **Business Department Storage**

Quantity: 1

Proposed SF: 150 to 250 SF



**Space Design Concept**

The storage should be designed to accommodate books, media storage and department specific equipment.

**Program Activities**

Storage of educational materials.

**Loose Furnishings**

Lateral and or vertical file cabinet

**Fixed Equipment**

Shelves to accommodate 600+ books

Secure storage cabinet

**Finishes**

Floor material: VCT with Rubber Base

Wall material: Block and /or Sheetrock with paint finish

Ceiling material: Acoustical Tile

Hardware: ADA compliant

Lighting: Standard

**Special Requirements**

HVAC systems exhaust and cooling if necessary

**Technology**

Power outlet

Security per school safety plan

Integrated public address system

**Technology Education Department Storage**

Quantity: 2

Proposed SF: 100 to 250 SF Each

**Space Design Concept**

The storage should be designed to accommodate books, media storage and department specific equipment.

**Program Activities**

Storage of educational materials.

**Loose Furnishings**

Lateral and or vertical file cabinet

**Fixed Equipment**

Shelves to accommodate 600+ books

Secure storage cabinet

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### **Finishes**

Floor material: VCT with Rubber Base

Wall material: Block and /or Sheetrock with paint finish

Ceiling material: Acoustical Tile

Hardware: ADA compliant

Lighting: Standard

### **Special Requirements**

HVAC systems exhaust and cooling if necessary

### **Technology**

Power outlet

Security per school safety plan

Integrated public address system

### **Technology Education Department Workroom and Office**

Quantity: 1

Proposed SF: 150 to 250 SF

### **Space Design Concept**

The office should be designed to accommodate the department chairperson, all department faculty/staff and a small conference area. The space should be adjacent to the workroom.

### **Program Activities**

Department leader's office

Conference Space

Teacher Work Stations

### **Loose Furnishings**

Desks and Chairs

Conference table and chairs

Lateral/vertical file cabinet

### **Fixed Equipment**

Marker/whiteboard

Tack board & display boards

Fixed cabinets and accessible work surfaces

### **Finishes**

Floor material: VCT or Carpet with Rubber Base

Wall material: Block and /or Sheetrock with paint finish

Ceiling material: Acoustical Tile

Hardware: ADA compliant

Lighting: Multi level direct/indirect

Windows: Operable with blinds or shades with natural light preferred





### **Special Requirements**

HVAC systems including Air Conditioning

### **Technology**

Power outlet

Media projection system or Interactive Whiteboard

Voice, video and data ports

Security per school safety plan

Wireless & Hard-wired Network

Integrated public address system

### **Educational Program Specifications – Learning Commons**

#### **Program Objectives**

The mission of the learning commons is to ensure that students develop both an enjoyment of reading and the information gathering skills that enable them to be independent, effective, responsible, critical, and creative users and creators of ideas and information. The Learning Commons is the school's center for information and inquiry for students and staff. The center provides the services, instruction, materials, equipment, and personnel to assist the faculty in developing an appropriate and effective educational program. Learning Commons of today are designed to be flexible and have electronic adaptability; ready for technologies as traditional methods are changing almost daily in the area of instruction.

The Learning Commons also coordinates the use and maintenance of instructional equipment. The library will consist of student seating areas with tables and study carrels, technology areas for student access to computers and AV equipment, classroom areas for instruction, shelving and storage for materials, a circulation area, small group meeting area, production room, library staff offices and workroom, storage room for equipment, and a professional library area for teachers.

The district media workroom will consist of a staff and student production area, office/work room for the media director, quiet work/meeting room, secured storage areas, and areas for copying and laminating.

#### **Program Activities to be accommodated**

The learning commons will house individual and class research using/viewing print, audio-visual, non-print, and computer resources; student instruction and activities in classroom areas; student pleasure reading; circulation of materials; student copying and compilation of research; library staff acquisition and processing of materials; storage of materials and equipment; and professional reading and research for teachers. The Learning Commons environment currently provides wireless access to the Internet, utilized by district equipment and by approved staff and student devices.

#### **Space Occupancy and Design Criteria**

The learning commons will have seating for up to 50 students including space for a minimum of 6 computers in the computer nook, office/work space for the library media specialists, copy machine, video production studio (unless moved – see below), secured storage, and the high school faculty room.

The following is a partial list of design elements that should be incorporated into the studio spaces:



- A. The Learning Commons configuration should maximize flexibility and provide lecture as well as general seating and computer workstation space.
- B. Access to technology should be provided through the Learning Commons.
- C. Digital projection systems should be utilized for visual display.
- D. Interactive whiteboards should be installed in designated areas.
- E. Ceiling height and windows should maximize natural light and accommodate daylight.
- F. A sidelite must be provided adjacent to all doors.
- G. Cabinets and casework appropriate to the Learning Commons functions should be provided.
- H. Special consideration should be given for sound transmission.
- I. Speaker systems should be incorporated into designated instructional areas.
- J. Whiteboards, Bulletin Boards, and projection screens will be provided at each designated instructional areas or small group work area.
- K. Dedicated storage should be provided.
- L. Adjustable multi-directional lighting
- M. A reading courtyard for students
- N. Student project display area
- O. The library workroom should be located near the circulation desk and should have a sink. Maximum sight lines and visibility throughout the library space for supervision are needed. The classrooms and small group spaces should be visible for supervision.

### **Proposed Program and Concept Plan**

The educational program space outlined below is based on building new to meet the program objectives established for New Fairfield High School.

### **Program Requirements**

Student seating areas for both collaboration and quiet study, technology areas for student access to computers and AV equipment, classroom areas for instruction, shelving and storage for materials, a circulation area, small group meeting area, library staff offices and workroom, storage room for equipment, and a professional library area for teachers.

### **Learning Commons**

Quantity: 1

Proposed SF: 4,000 to 5,000 SF

### **Space Design Concept**

The space should be designed for an integrated approach to technology and multiple furniture arrangements and classroom configurations.

### **Program Activities**

The library/learning commons will have seating for up to 50 students, including space for a minimum of 6 computers, a small group meeting area, comfortable seating for students, offices for the library media specialist; library assistant; and professional library to seat a minimum of 12 at tables.

### **Loose Furnishings**

Tables with chairs



Circular tables for small groups with chairs  
Mobile computer stations  
Comfortable seating for students  
Shelving  
Acoustical treatment  
Marker/whiteboard (Multiple)  
Tack board & display boards  
Projection screen/surfaces  
Display and bookshelves

### **Finishes**

Floor material: Carpet  
Base material: Rubber / Vinyl  
Wall material: Block / Sheetrock  
Ceiling material: Acoustical ceiling  
Hardware: ADA compliant  
Lighting: Multi level direct/indirect  
Windows: Operable with blinds - Maximize natural light

### **Special Requirements**

Specialty lighting  
HVAC systems including Air Conditioning  
Natural and indirect/direct Lighting  
Operable windows

### **Technology**

Power outlet - floor and walls  
Media projection system  
Voice, video and data ports  
Security  
Portable sound system  
Integrated public address system

### **Learning Commons Office/Work Area**

Quantity: 1  
Proposed SF: 200 to 300 SF

### **Space Design Concept**

The office to accommodate the media specialist with conference space.

### **Program Activities**

Planning and preparation room

### **Loose Furnishings**

Desks and Chair  
Computer station

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Work table and Chair  
Lateral/vertical file cabinet

### **Fixed Equipment**

Acoustical treatment  
Marker/whiteboard (Multiple)  
Tack board & display boards  
Projection screen/surfaces  
Display and bookshelves  
Tall wardrobe and storage cabinet, lockable  
Fixed cabinets and accessible work surfaces

### **Finishes**

Floor material: Carpet  
Base material: Rubber / Vinyl  
Wall material: Block / Sheetrock  
Ceiling material: Acoustical Tile  
Hardware: ADA compliant  
Lighting: Multi level direct/indirect  
Windows: Operable with blinds - Maximize natural light  
Fire extinguisher & suppression

### **Special Requirements**

Specialty lighting  
HVAC systems including Air Conditioning  
Natural and indirect/direct Lighting

### **Technology**

Power outlet - floor and walls  
Media projection system  
Voice, video and data ports  
Security  
Portable sound system  
Integrated public address system

### **Learning Commons Storage**

Quantity: 1  
Proposed SF: 200 to 350 SF

### **Space Design Concept**

The storage should be designed to accommodate supplies, media storage and department specific equipment.

### **Program Activities**

Storage of educational materials



### **Fixed Equipment**

Shelves  
Secure storage cabinet

### **Finishes**

Floor material: VCT  
Base material: Rubber  
Wall material: Block / Sheetrock  
Wall Finish: Paint  
Ceiling material: Acoustical Tile  
Ceiling height: 8'-0" minimum  
Hardware: ADA compliant - Lockable  
Lighting: Standard LED  
Fire extinguisher & suppression

### **Special Requirements**

HVAC systems exhaust

### **Technology**

Power outlet - walls  
Security

### **Learning Commons Conference Room**

Quantity: 1  
Proposed SF: 200 to 250 SF

### **Space Design Concept**

The space should be designed to accommodate a small conference table for up to twelve individuals.

### **Program Activities**

Small group instruction and meetings

### **Loose Furnishings**

Conference table and Chairs

### **Fixed Equipment**

Acoustical treatment  
Marker/whiteboard (Multiple)  
Tack board & display boards  
Projection screen/surfaces  
Flag Bracket & Flag  
Display and bookshelves  
Lower storage cabinet lockable 8 linear feet  
Fixed cabinets and accessible work surface

### **Finishes**

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Floor material: Carpet  
Base material: Rubber / Vinyl  
Wall material: Block / Sheetrock  
Ceiling material: Acoustical Tile  
Hardware: ADA compliant  
Lighting: Multi level direct/indirect  
Windows: Operable with blinds - Maximize natural light  
Fire extinguisher & suppression

### **Special Requirements**

HVAC systems including Air Conditioning  
Natural and indirect/direct Lighting

### **Technology**

Power outlet  
Media projection system / Smart boards  
Voice, video and data ports  
Security  
Integrated public address system

## **Educational Program Specifications – Cafeteria**

### **Program Objectives**

The food service program is a vital part of today's educational service and is an integral part of the overall educational plan for a school facility program. Nutrition requirements based on a healthy diet, enough time for serving, and eating arrangements must be given a high priority as they contribute to the health and welfare of all students and staff. The Cafeteria should be designed as a comfortable and multifunctional space as it typically serves as a banquet facility, school dance venue, meeting room, and home to other after school and community activities. The dining area should accommodate a minimum of 250 students at a time and provide designated areas for senior seating, vending machines, small gathering areas, and temporary/portable food stations for snacks, salad etc. Additionally, the space should provide the opportunity for presentations such as lecture, music, and dances. The cafeteria should also function as an area where student work and achievements are displayed.

The kitchen/food preparation area that will accommodate hot and cold meal serving lines is imperative. A self-service line and a snack line with a steam table should be provided. A separate washing/disposal area for elimination of waste and cleaning utensils should be maintained. This area should be readily accessible to the serving area for quick redistribution of utensils. There should be an access area for quick and convenient disposal of solid waste products and paper trash without distraction to diners or school traffic.

### **Program Activities to be accommodated**

- Food service and seating for up to 250 students, approximately 33% of the school's population at one time with multiple furniture arrangements
- Kitchen area large enough to service the needs associated with the warming of the food
- Facilities for garbage disposal area, freezers, coolers, food services staff office, and planning areas



- Toilets, lockers, and other support spaces associated with the kitchen
- General toilets for boys and girls.

### **Space Occupancy and Design Criteria**

The space includes the students, teachers, administrative and food service staff. The following is a partial list of design elements that should be incorporated into the studio spaces:

- A. The Cafeteria configuration should maximize flexibility and provide for activities such as lectures, school dances, social events, and art displays.
- B. Digital projection systems should be utilized for visual display in designated areas.
- C. Community access after school hours should be provided.
- D. Ceiling height and windows should maximize natural light and accommodate daylight.
- E. Windows in the corridors should be provided and appropriately sized corridors should be provided to the area in and out of the cafeteria.
- F. Booth, high-top, and other seating arrangements should be planned for maximum flexibility.
- G. Special consideration should be given for sound transmission and acoustics.
- H. Speaker systems should be incorporated into all cafeteria seating areas.
- I. Storage should be provided for the tables and chairs.
- J. Adjustable multi-directional lighting
- K. A courtyard for exterior dining should be provided.
- L. Student display cases for two- and three-dimensional art work should be provided.
- M. Enhanced ventilation requirements

### **Proposed Program and Concept Plan**

The educational program space outlined below is based on building a new facility to meet the program objectives established for New Fairfield High School. The new cafeteria will be served by a warming kitchen. Additionally, technology will be introduced throughout the space and areas with multi-use capabilities in mind.

### **Program Requirements**

The Cafeteria space requirements include the seating area to incorporate 250 students at one time, and provide storage rooms, and kitchen/support spaces.

#### **Cafeteria**

Quantity: 1

Proposed SF: 3,000 to 3,500 SF

### **Space Design Concept**

A multi-functional space that is used to serve students lunch and provides options for large and small assemblies

### **Program Activities**

Student dining area and assemblies

### **Loose Furnishings**

Tables with attached seating

Vending machines



### **Fixed Equipment**

Acoustical treatment  
Tack board & display boards  
Projection screen/surfaces overhead

### **Finishes**

Floor material: VCT / VET  
Base material: Rubber / Vinyl  
Wall material: Block / Sheetrock  
Ceiling material: Acoustical and Open ceiling  
Hardware: ADA compliant  
Lighting: Multi level direct/indirect  
Windows: Operable with blinds - Maximize natural light  
Fire extinguisher & suppression

### **Special Requirements**

Specialty lighting  
Drinking Fountains  
HVAC systems including Air Conditioning  
Natural and indirect/direct Lighting  
Power requirements for portable hot and cold food serving units

### **Technology**

Power outlet  
Media projection system / Smart boards  
Voice, video and data ports  
Security  
Integrated public address system

### **Kitchen & Serving Line**

Quantity: 1  
Proposed SF: 1,000 to 1,500 SF

### **Space Design Concept**

An efficient warming commercial kitchen with appropriate support spaces

### **Program Activities**

Preparation and serving meals, primarily lunch.

### **Loose Furnishings**

Food preparation and serving utensils equipment  
Tables  
Portable carts  
Portable serving stations





Portable hot and cold food storage units

Acoustical treatment: Acoustical Ceiling Tile and wall panels

Marker/whiteboard

Tack board & display boards

### **Finishes**

Floor material: Quarry Tile

Base material: Tile

Wall material: Block / Sheetrock

Ceiling material: Acoustical and Open ceiling

Hardware: ADA compliant

Lighting: Multi level direct/indirect

Windows: Operable with blinds - Maximize natural light

Fire extinguisher & suppression

### **Special Requirements**

Specialty lighting

Drinking Fountains

Vending Equipment

Hand Sinks

Food preparation equipment

HVAC systems including Air Conditioning

Natural and indirect/direct Lighting

Power requirements for portable hot and cold food serving units

Overhead grill door

### **Technology**

Power outlet

Media projection system / Smart boards

Voice, video and data ports

Security

Integrated public address system

### **Kitchen Office**

Quantity: 1

Proposed SF: 150 to 200 SF

### **Space Design Concept**

The office should accommodate the food services director and manager.

### **Program Activities**

Planning and preparation room.

### **Loose Furnishings**

Desks and Chair

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Computer station  
Work table and Chair  
Lateral/vertical file cabinet

### **Fixed Equipment**

Acoustical treatment  
Marker/whiteboard  
Tack board & display boards  
Projection screen/surfaces  
Display and bookshelves  
Tall wardrobe and storage cabinet  
Fixed cabinets and accessible work surfaces

### **Finishes**

Floor material: VCT / VET  
Base material: Rubber / Vinyl  
Wall material: Block / Sheetrock  
Ceiling material: Acoustical Tile  
Hardware: ADA compliant  
Lighting: Multi level direct/indirect  
Windows: Operable with blinds - Maximize natural light  
Fire extinguisher & suppression

### **Special Requirements**

HVAC systems including Air Conditioning  
Natural and indirect/direct Lighting  
Operable windows

### **Technology**

Power outlet  
Media projection system / Smart boards  
Voice, video and data ports  
Security  
Integrated public address system

### **Kitchen Storage**

Quantity: 1 - Depending on the specific use  
Proposed SF: 150 to 250 SF

### **Space Design Concept**

The storage should be designed to accommodate supplies, food prep and service related products.

### **Program Activities**

Storage of food service related materials. Includes Freezer, Cooler, Dry Storage and General Storage



### **Fixed Equipment**

Shelves  
Secure storage cabinet

### **Finishes**

Floor material: VCT / VET  
Base material: Rubber / Vinyl  
Wall material: Block / Sheetrock  
Ceiling material: Acoustical Tile  
Hardware: ADA compliant  
Lighting: Multi level direct/indirect  
Windows: Operable with blinds - Maximize natural light  
Fire extinguisher & suppression

### **Special Requirements**

HVAC systems exhaust

### **Technology**

Power outlet - walls  
Security

## **Educational Program Specifications – Auditorium**

### **Program Objectives**

All students can learn from improvisational work, literary analysis of all types of dramatic literature, scene study aimed at production, formal full-length productions, workshops, and performances. Improvisational work should be the foundation for all types of learning about drama and theater. The auditorium / theater will be a multi-purpose performance space that will accommodate programs that range from public speaking and presentation, to music recitals, dance and theatrical performances. The auditorium is to be designed to accommodate large school gatherings of 725-750 as well as performances for smaller audiences of 400. Musical performances will include the band with 100 students, the concert choir at 100 students and district wide band and choir concerts of 200 students each. The auditorium can also be the venue for community groups. Courses might include Introduction to Theater, Advanced Theater, and Stagecraft. The auditorium can be used for the following:

- Several MS and HS Music department concerts each year
- Theatrical productions – plays and musicals
- Unified theater – MS and HS
- DECA events (fashion show, Mr. Rebel)
- Talent Show – MS & HS
- Assemblies, presentations for a variety of school programs & functions
- Community use after school hours.

*The auditorium should be located adjacent to parking with a lobby/pre-function space and community access. Concession and Box office separate from athletics should be provided.*

### **Program Activities to be Accommodated**

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All acting, directing, and theater voice classes will take place in the Auditorium. Stagecraft will be housed in the Technology Education area and the students will also support the sound, lighting, video design and engineering, which will take place in a computer classroom and auditorium. Costume design and fabrication will take place in the FCS lab(s). There will also be Main Stage Productions, which can take place in the main auditorium and black box theater.

### **Space Occupancy and Design Criteria**

Students will attend theater classes in the auditorium, and costume room. One to two acting teachers and one to two technical teachers are projected as well as technical support personnel for costumes, scenery, art and graphics, publicity, communication, makeup, and other specialty areas. The following is a partial list of design elements that should be incorporated into the auditorium spaces:

The educational program requirements for the auditorium were based on best practices for the current and proposed programs, as well as space needs derived from dialog with school and community based stakeholders. This included the theatrical arts and music teachers and high school administrators. Key issues that are considered in the development of the auditorium program are identified below:

- Seating Capacity 725-750
- Size of the stage and throughst
- Set workshop and storage
- Orchestra Pit
- Dressing and Green room
- Dance and Music Programs
- Proper Sight-lines
- Acoustics
- Sound Isolation
- Light isolation
- Access to technology should be provided through the auditorium.
- Digital projection systems should be utilized for visual display.
- Special consideration should be given for sound transmission.
- Mechanical /HVAC systems
- House and Stage Lighting
- ADA, Fire Protection and Life Safety Codes.
- Catwalk over the house
- Light fixtures with access and on a fly system

### **Design Concept:**

The design of the auditorium in New Fairfield High School must be carefully evaluated as it is used by every department in the school. School wide assemblies are limited by the capacity, and the space is not currently conducive for lecture settings.

### **Auditorium Orchestra & Mezzanine Level**

Quantity: 1

Proposed SF: 8,000 to 10,000 SF

### **Space Design Concept**

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Seating for performances with a focus on acoustics and sight-lines

### **Program Activities**

Musical and theatrical performances.

### **Loose Furnishings**

Mobile computer stations

Lighting and sound control module

Acoustical treatment

Tack board & display boards

Projection screen/surfaces

Fixed cabinets and accessible work surfaces

### **Finishes**

Floor material: Carpet and exposed concrete

Base material: Rubber / Vinyl

Wall material: Block / Sheetrock / Wood

Ceiling material: Open ceiling / clouds

Hardware: ADA compliant

Lighting: Multi level direct/indirect

Windows

Fire extinguisher & suppression

### **Special Requirements**

Specialty lighting

HVAC systems including Air Conditioning

Natural and indirect/direct Lighting in lobby

Sound Isolation

### **Technology**

Power outlet - floor and walls

Media projection system

Voice, video and data ports

Security

Portable sound system

Integrated public address system

### **Auditorium Stage**

Quantity: 1

Proposed SF: 2,000 to 2,500 SF Each

### **Space Design Concept**

Large open space for lectures, musical recitals and theatrical productions. A throughstage extension and orchestra pit should be provided. Space to fly scenery with multiple drops and wing space. Locate adjacent to the music rooms, storage and theater set design workshop.



### **Program Activities**

Main Student Performance Area

### **Loose Furnishings**

Defined by the performance program

Acoustical treatment

Marker/whiteboard (Multiple)

Projection screen/surfaces

### **Finishes**

Floor material: Wood

Base material: Rubber / Vinyl

Wall material: Block

Ceiling material: Open ceiling / Rigging

Hardware: ADA compliant

Lighting: Multi level direct/indirect

Fire extinguisher & suppression

### **Special Requirements**

Specialty lighting

HVAC systems including Air Conditioning

Indirect/direct Lighting

Stage Rigging and Curtains

House and Stage lighting

10 feet wide and 10 feet tall Overhead door with acoustical treatment

### **Technology**

Power outlet - floor and walls

Media projection system

Voice, video and data ports

Security

Portable sound system

Technology equipment

Wireless & Hard wired Network

Integrated public address system

### **Auditorium Storage**

Quantity: 2

Proposed SF: 250 to 350 SF Each

### **Space Design Concept**

The storage should be designed to accommodate costumes, props, supplies, media storage, and department specific equipment.



**Program Activities**

Storage of theater and presentation materials.

**Fixed Equipment**

Shelves

Secure storage cabinet

**Finishes**

Floor material: VCT

Base material: Rubber

Wall material: Block / Sheetrock

Wall Finish: Paint

Ceiling material: Acoustical Tile

Ceiling height: 8'-0" minimum

Hardware: ADA compliant - Lockable

Lighting: Standard LED

Fire extinguisher & suppression

**Special Requirements**

HVAC systems exhaust

Humidity control

Overhead door for large equipment transfers

**Technology**

Power outlet - walls

Security

**Multi-Purpose Room**

Quantity: 1

Proposed SF: 1,500 to 2,500 SF Each

**Space Design Concept**

Large open space for musical recitals and theatrical productions for small venues with 200 seats. Operates as a pre-function or gathering space.

**Program Activities**

Student Performance Area and Gathering Area

**Loose Furnishings**

Defined by the performance program

Acoustical treatment

Projection screen/surfaces

**Finishes**

Floor material: Wood

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Base material: Rubber / Vinyl  
Wall material: Block  
Ceiling material: Open ceiling / Grid Iron  
Hardware: ADA compliant  
Lighting: Multi level direct/indirect  
Fire extinguisher & suppression

### **Special Requirements**

Specialty lighting  
HVAC systems including Air Conditioning  
Indirect/direct Lighting  
Stage Rigging and Curtains  
House and Stage lighting  
Bleacher seating  
Side and rear door access for performers during productions

### **Technology**

Power outlet - floor and walls  
Media projection system  
Voice, video and data ports  
Security  
Portable sound system  
Integrated public address system

## **Educational Program Specifications – Physical Education**

### **Program Objectives**

The Physical Education program is an integral part of the total educational structure of the New Fairfield Public Schools. Taken in conjunction with the Health program, it provides the most significant contributions toward the total well-being of each child. The overall goal of the program is to offer progressive, sequential instruction which provides each student with sufficient physical activity to maintain an optimal level of fitness and develop acceptable social, emotional, and physical traits. The Physical Education department is currently separated from the Health department based upon layout. Physical Education is required for all students each year from grades 9 - 12. Students need to earn 2.0 credits in Physical Education in order to graduate.

### **Program Goals**

Instruction in the Physical Education Department involves the 21<sup>st</sup> Century Learning Expectations of writing effectively, reading effectively, speaking effectively, problem-solving effectively, and thinking critically. The goals of the Physical Education program include the following:

- A. Development of a student's positive attitude toward his/her personal involvement in physical activities;
- B. Development of an understanding of and appreciation for the nature of rules, skills, and strategies as they relate to physical education activities at the appropriate grade levels;
- C. Provide opportunities for students to develop a wholesome self-concept and an acceptable perception of others;





- D. Development of an interest and a desire to participate in lifelong recreational sports;
- E. Development of healthy attitudes concerning winning, losing, and fair play;
- F. Development of the ability to identify options available in making personal decisions.

### **Program Activities to be accommodated**

The facilities will accommodate physical education and athletic activities for the entire student population. The facilities required to achieve the department's goal for physical education/health and athletics are identified below.

- A. Main gymnasium with seating for 750 (2 Teaching Stations)
- B. Fitness center
- C. Health Education Classroom(s)
- D. Storage for all equipment (currently there is a lack of storage and showers are being used for storage)
- E. Separate boys' and girls' locker rooms with toilet and shower facilities
- F. Team locker areas for sport teams and visiting team use
- G. Athletic Director's Office
- H. Office, lockers, toilet, and shower facilities for the PE Staff
- I. Coaches' Offices
- J. Outdoor Equipment Storage
- K. Concession with Storage
- L. Ticket Booth
- M. Office and Storage

### **Space Occupancy and Design Criteria**

The individuals using the space include the students, teachers, volunteers, and the community. The following is a partial list of design elements that should be incorporated into the design of the PE spaces:

- A. The Gymnasiums should maximize flexibility and provide adequate seating for state-wide competitions. At a minimum, there should be enough seating in the gym for all students who attend New Fairfield High School.
- B. Access to technology should be provided through the instructional and office areas.
- C. Digital projection systems should be utilized for visual display, including scoreboards.
- D. Interactive whiteboards should be installed in all instructional areas.
- E. Ceiling height and windows should maximize natural light and accommodate daylight.
- F. Sidelites must be provided adjacent to all instructional classroom doors.
- G. Cabinets and casework must be provided in all instructional classrooms.
- H. Speaker systems should be incorporated into all instructional spaces.
- I. Whiteboards and Bulletin Boards should be provided in each instructional space.
- J. Adjustable multi-directional lighting.
- K. Video recording infrastructure must be installed in the gymnasiums for the live recording of events.
- L. Enhanced ventilation requirements
- M. Masonry, ceramic tile and similar finish products should be used in all locker and team facilities.
- N. Natural light should be provided in the gymnasiums.
- O. Provisions for the storage of equipment for all sports activities.
- P. All facilities should meet Title IX requirements.
- Q. The Athletic Training Room should include: sink, ice machine, white board, whirlpools, and storage lockers.
- R. Mechanically-operated curtain



- S. Suspended batting cages in Gym.
- T. The Fitness room should be equipped with cardiovascular equipment.
- U. The weight room should consist of: cardiovascular and weight equipment to accommodate 20 students.
- V. The count of all existing athletic fields and courts should be maintained with the addition of a new practice field.

### **Proposed Program and Concept Plan**

The program developed for the Physical Education program is based on meeting the curriculum need of New Fairfield High School. Right sizing the program areas, addressing ADA/OCR and Title IX; and resolving the natural light environmental issues have been the programming priorities.

### **Design Concept:**

The design approach reorganizes the existing program to meet the following priorities:

1. Equality in the size of the facilities and amenities available to both the boys and the girls.
2. Introduction of natural light and HVAC systems that meet or exceed ASHRAE standards and provide a healthy environment for the competitive spirit.
3. A facility that is welcoming and enhances student performance allowing them to excel by developing a healthy body and mind.
4. A facility that serves the students and the community at large.

### **Program Requirements**

The key spaces requirements of the Physical Education Department, and the community at large, is to include a gymnasium, a larger fitness center, health classrooms, storage rooms, utility room, locker rooms and offices for the athletic director and teachers. The inclusion of technology is an imperative.

### **Gymnasium**

Quantity: 1

Proposed SF: 7,500 to 10,500 SF

### **Space Design Concept**

The Main Gymnasium should be designed to accommodate a full size courts for basketball and volleyball; and seating for 500 Spectators. A climbing wall could be located in the second gym. The Gym will be designed with an integrated approach to technology. Each space will function as a physical education instructional area for 2 classes.

### **Program Activities**

Primarily PE activities and should support a number of teaching styles, including lectures, small group and individual instruction. Appropriate storage for equipment for each gym.

### **Loose Furnishings**

Physical Ed Equipment

### **Fixed Equipment**

Acoustical treatment - Acoustical Deck and panels

Projection screen/surfaces – Retractable



### **Finishes**

Floor material: Wood resilient sports flooring  
Base material: Wood  
Wall material: Block / Sheetrock  
Wall material: Wall padding  
Ceiling material: Open ceiling painted with acoustical deck  
Hardware: ADA compliant  
Lighting: Multi level direct/indirect  
Windows: Maximize natural light – Avoid potential for glare  
Fire extinguisher & suppression

### **Special Requirements**

Specialty lighting  
Retractable Clear Glass basketball backboards  
HVAC systems including Air Conditioning  
Mechanically operated divider curtains or rigid folding partitions  
Accommodation for baseball cages  
Protection for all equipment  
Sloped roof deck at 1/2" per foot minimum  
Provision for floor scansion for volleyball and other sports.  
Access to power and data in the floor  
Electronic scoreboards  
Display of banners  
Retractable bleachers to sit 500 people in larger gym  
Wrestling mats and climbing wall.

### **Technology**

Power outlet - floor and walls  
Media projection system  
Voice, video and data ports  
Security  
Portable sound system  
Integrated public address system

### **PE Locker Rooms**

Quantity: 2  
Proposed SF: 1,000 to 1,250 SF Each

### **Space Design Concept**

The locker rooms should be designed with an integrated approach to technology. The space will function as a changing area for students, include toilets and shower facilities and be adjacent to the team rooms. The PE teacher offices will open on the locker rooms. Each locker-room should contain restroom facilities as prescribed by code. Transgender locker facility with toilet should be considered. This can also function as a family locker room for use by the community.

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### **Program Activities**

Student changing and preparatory area for PE activities  
Team athletics

### **Loose Furnishings**

Shower curtains

### **Fixed Equipment**

Acoustical treatment  
Large Lockers – 250 lockable (each locker room)  
Fixed counters and accessible work surfaces  
Mirrors

### **Finishes**

Floor material: Polished Concrete  
Base material: Ceramic Tile  
Wall material: Block / Tile  
Ceiling material: Open ceiling  
Hardware: ADA compliant  
Lighting Standard LED  
Windows: Clearstory Semi Transparent - Maximize natural light  
Fire extinguisher & suppression

### **Special Requirements**

HVAC systems including Air Conditioning  
Interior windows for teacher office sightlines  
Vandal proof furnishings  
Restrooms

### **Technology**

Power outlet - floor and walls  
Media projection system  
Voice, video and data ports  
Security  
Integrated public address system

### **Coaches/PE Teachers Offices**

Quantity: 4  
Proposed SF: 100 to 125 SF Each

### **Space Design Concept**

The offices should accommodate desks and chairs for coach and teacher volunteers.

### **Program Activities**

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Planning and preparation room for coaches.

**Loose Furnishings**

Desks and Chair  
Computer station  
Work table and Chair  
Lateral/vertical file cabinet

**Fixed Equipment**

Acoustical treatment  
Marker/whiteboard (Multiple)  
Tack board & display boards  
Display and bookshelves  
Tall wardrobe and storage cabinet  
Fixed cabinets and accessible work surfaces

**Finishes**

Floor material: Polished Concrete  
Base material: Rubber / Vinyl  
Wall material: Block / Sheetrock  
Ceiling material: Acoustical Tile  
Hardware: ADA compliant  
Lighting: Standard LED  
Windows: Operable with blinds - Maximize natural light  
Fire extinguisher & suppression

**Special Requirements**

HVAC systems including Air Conditioning  
Natural and indirect/direct Lighting  
Operable windows  
Lockers

**Technology**

Power outlet - floor and walls  
Media projection system  
Voice, video and data ports  
Security  
Portable sound system  
Integrated public address system

**Strength Training**

Quantity: 1  
Proposed SF: 1,500 to 2,000 SF

**Space Design Concept**

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The strength training room should be designed as a flexible space for a variety of weight training equipment.

**Program Activities**

Primary use will be strength training activities for specific sports activities.

**Loose Furnishings**

Weightlifting /training equipment

**Fixed Equipment**

Acoustical treatment  
Marker/whiteboard (Multiple)  
Tack board & display boards  
Projection screen/surfaces  
Flag Bracket & Flag  
Mirrors on all walls

**Finishes**

Floor material: Rubber mats  
Base material: Rubber  
Wall material: Block / Sheetrock  
Ceiling material: Acoustical Tile  
Hardware: ADA compliant  
Lighting: Multi level direct/indirect  
Windows: Maximize natural light  
Fire extinguisher & suppression

**Special Requirements**

HVAC systems including Air Conditioning  
Water fountain

**Technology**

Power outlet - floor and walls  
Media projection system  
Voice, video and data ports  
Security  
Portable sound system  
Integrated public address system

**Fitness Center**

Quantity: 1  
Proposed SF: 800 to 1,000 SF Each

**Space Design Concept**

The fitness room should be designed for an integrated approach to technology and flexibility



**Program Activities**

Primary use will be cardiovascular activities and will also support a number of teaching styles, including lectures and dance.

**Loose Furnishings**

Aerobic activities equipment

**Fixed Equipment**

Acoustical treatment  
Marker/whiteboard (Multiple)  
Tack board & display boards  
Projection screen/surfaces  
Flag Bracket & Flag  
Mirrors on all walls

**Finishes**

Floor material: Rubber mats  
Base material: Rubber  
Wall material: Block / Sheetrock  
Ceiling material: Acoustical Tile  
Hardware: ADA compliant  
Lighting: Multi level direct/indirect  
Windows: Maximize natural light  
Fire extinguisher & suppression

**Special Requirements**

HVAC systems including Air Conditioning  
Water fountain

**Technology**

Power outlet - floor and walls  
Media projection system  
Voice, video and data ports  
Security  
Portable sound system  
Integrated public address system

**Athletic Directors Office**

Quantity: 1  
Proposed SF: 150 to 200 SF

**Space Design Concept**

The space should be designed to accommodate an office for the Athletic Director(s) with work/planning area, conference area.

**Program Activities**

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Planning and preparation office.

### **Loose Furnishings**

Desks and Chair  
Computer station  
Work table and Chair  
Lateral/vertical file cabinet

### **Fixed Equipment**

Acoustical treatment  
Marker/whiteboard (Multiple)  
Tack board & display boards  
Display and bookshelves  
Tall wardrobe and storage cabinet  
Fixed cabinets and accessible work surfaces

### **Finishes**

Floor material: Polished Concrete  
Base material: Rubber / Vinyl  
Wall material: Block / Sheetrock  
Ceiling material: Acoustical Tile  
Hardware: ADA compliant  
Lighting: Standard LED  
Windows: Operable with blinds - Maximize natural light  
Fire extinguisher & suppression

### **Special Requirements**

HVAC systems including Air Conditioning  
Natural and indirect/direct Lighting  
Operable windows  
Lockers

### **Technology**

Power outlet - floor and walls  
Media projection system  
Voice, video and data ports  
Security  
Portable sound system  
Integrated public address system

### **Athletic Conference/Meeting Room**

Quantity: 1  
Proposed SF: 150 to 250 SF





### **Space Design Concept**

The conference should be designed to accommodate 8 to 10 individuals with limited equipment and secure storage.

### **Program Activities**

Teacher/athletic planning and meeting room

### **Loose Furnishings**

Conference table and Chairs

### **Fixed Equipment**

Acoustical treatment

Marker/whiteboard (Multiple)

Tack board & display boards

Display and bookshelves

Fixed cabinets and accessible work surfaces

### **Finishes**

Floor material: Polished Concrete

Base material: Rubber / Vinyl

Wall material: Block / Sheetrock

Ceiling material: Acoustical Tile

Hardware: ADA compliant

Lighting: Standard LED

Windows: Operable with blinds - Maximize natural light

Fire extinguisher & suppression

### **Special Requirements**

HVAC systems including Air Conditioning

Natural and indirect/direct Lighting

Operable windows

Lockers

### **Technology**

Power outlet - floor and walls

Media projection system

Voice, video and data ports

Security

Portable sound system

Integrated public address system

### **Team Rooms**

Quantity: 2

Proposed SF: 250 to 450 SF



### **Space Design Concept**

The space should be designed to accommodate a team meeting with whiteboards and technology for planning and instruction. A shower, toilets and lockers are to be provided at each team room.

### **Program Activities**

Team meeting and planning room

### **Loose Furnishings**

None

### **Fixed Equipment**

Acoustical treatment

Marker/whiteboard (Multiple)

Tack board & display boards

### **Finishes**

Floor material: Polished Concrete

Base material: Rubber / Vinyl

Wall material: Block / Sheetrock

Ceiling material: Acoustical Tile

Hardware: ADA compliant

Lighting: Standard LED

Windows: Operable with blinds - Maximize natural light

Fire extinguisher & suppression

### **Special Requirements**

HVAC systems including Air Conditioning

Natural and indirect/direct Lighting

Operable windows

Lockers and Benches

### **Technology**

Power outlet - floor and walls

Media projection system

Voice, video and data ports

Security

Portable sound system

Integrated public address system

### **Trainer**

Quantity: 1

Proposed SF: 250 to 550 SF

### **Space Design Concept**

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The space should be designed to accommodate first aid and physical therapy for injured students and staff. The space should contain storage.

**Program Activities**

Physical therapy and injury treatment.

**Loose Furnishings**

- Computer
- Jacuzzi / Treatment Tub
- Refrigerator / freezer
- Microwave
- Ice Machine
- Lateral/vertical file cabinet
- Shelving in the adjacent storage room

**Fixed Equipment**

- Acoustical treatment
- Marker/whiteboard (Multiple)
- Tack board & display boards
- Cabinets lockable
- Counter with sink

**Finishes**

- Floor material: Polished Concrete
- Base material: Rubber / Vinyl
- Wall material: Block / Sheetrock
- Ceiling material: Acoustical Tile
- Hardware: ADA compliant
- Lighting: Standard LED
- Windows: Operable with blinds - Maximize natural light
- Fire extinguisher & suppression

**Special Requirements**

- HVAC systems including Air Conditioning
- Natural and indirect/direct Lighting
- Operable windows

**Technology**

- Power outlet - floor and walls
- Media projection system
- Voice, video and data ports
- Security
- Portable sound system
- Integrated public address system

**Concession Facility**

# New Fairfield High School

## Educational Specifications

June 2019

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Quantity: 1

Proposed SF: 100 to 250 SF

### **Space Design Concept**

The space should be designed to accommodate the sale of food and drinks, and school related items. The space should contain storage. The facility should have access to the outside through a door and a serving area should be facing the exterior and the interior of the building.

### **Program Activities**

Cell concessions during athletic competitions and other community events. This will be manned by the community groups, booster clubs and the Family & Consumer Science program.

### **Loose Furnishings**

Tall stools

Computer/cashier stations

Refrigerator / freezer

Microwave

Lateral/vertical file cabinet

Shelving in the storage room

### **Fixed Equipment**

Acoustical treatment

Marker/whiteboard (Multiple)

Tack board & display boards

Cabinets lockable

Counter with sink

### **Finishes**

Floor material: VCT / VET

Base material: Rubber / Vinyl

Wall material: Block / Sheetrock

Ceiling material: Acoustical Tile

Hardware: ADA compliant

Lighting: Standard LED

Windows: Operable with blinds - Maximize natural light

Fire extinguisher & suppression

### **Special Requirements**

HVAC systems including Air Conditioning

Outlets for equipment

Vending machines

### **Technology**

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Power outlet - floor and walls  
Media projection system  
Voice, video and data ports  
Security  
Portable sound system  
Integrated public address system

### **PE/Athletic Storage**

Quantity: 2 (one for Physical Education and one of Athletic Department)  
Proposed SF: 350 to 500 SF

### **Space Design Concept**

The storage should be designed to accommodate department, athletic and community specific equipment.

### **Program Activities**

Storage of PE, athletic and community equipment

### **Fixed Equipment**

Shelves – 12 inch deep

### **Finishes**

Floor material: Concrete  
Base material: Rubber  
Wall material: Block / Sheetrock  
Wall Finish: Paint  
Ceiling material: Acoustical Tile  
Ceiling height: 8'-0" minimum  
Hardware: ADA compliant - Lockable  
Lighting: Standard LED  
Fire extinguisher & suppression

### **Special Requirements**

HVAC systems exhaust

### **Technology**

Power outlet - walls  
Security

### **Uniform Storage**

Quantity: 1  
Proposed SF: 150 to 200 SF

### **Space Design Concept**

The space should be designed to accommodate uniforms and department specific storage.

# New Fairfield High School

## Educational Specifications

June 2019

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### **Program Activities**

Storage of uniform and portable racks

### **Loose Equipment**

Clothing Racks

### **Fixed Equipment**

Shelves – 12 inch deep

### **Finishes**

Floor material: VCT

Base material: Rubber

Wall material: Block / Sheetrock

Wall Finish: Paint

Ceiling material: Acoustical Tile

Ceiling height: 8'-0" minimum

Hardware: ADA compliant - Lockable

Lighting: Standard LED

Fire extinguisher & suppression

### **Special Requirements**

HVAC systems exhaust

### **Technology**

Power outlet - walls

Security

### **Utility Room**

Quantity: 1

Proposed SF: 50 to 100 SF

### **Space Design Concept**

The space should be designed to accommodate laundry equipment and Ice Machine.

### **Program Activities**

Laundry for uniforms

Ice Machine

### **Loose Equipment**

Washer & Dryer

Ice Machine

### **Fixed Equipment**

Shelves – 12 inch deep



### **Finishes**

Floor material: VCT  
Base material: Rubber  
Wall material: Block / Sheetrock  
Wall Finish: Paint  
Ceiling material: Acoustical Tile  
Ceiling height: 8'-0" minimum  
Hardware: ADA compliant - Lockable  
Lighting: Standard  
Fire extinguisher & suppression

### **Special Requirements**

HVAC systems exhaust  
Special power requirements for equipment

### **Technology**

Power outlet - walls  
Security

### **Ticket Booth**

Quantity: 1  
Proposed SF: 40 to 70 SF

### **Space Design Concept**

The ticket booth should be designed to accommodate a ticket counter and cashier station. The ticket booth should be adjacent to the concession area.

### **Program Activities**

Ticket Sales

### **Loose Furnishings**

Stools  
Computer stations  
Lateral/vertical file cabinet

### **Fixed Equipment**

Acoustical treatment  
Marker/whiteboard (Multiple)  
Tack board & display boards  
Counter with drawer

### **Finishes**

Floor material: VCT / VET  
Base material: Rubber / Vinyl  
Wall material: Block / Sheetrock



Ceiling material: Acoustical Tile  
Hardware: ADA compliant  
Lighting: Multi level direct/indirect  
Windows: Ticket booth transition window with overhead grill  
Fire extinguisher & suppression

### **Special Requirements**

HVAC systems including Air Conditioning

### **Technology**

Power outlet - walls  
Voice, video and data ports  
Security  
Integrated public address system

## **Educational Program Specifications – Health Education**

### **Program Objectives**

The Health Program at New Fairfield High School is designed to support and guide students' personal and academic achievement through the development of skills needed to live a healthy and balanced lifestyle. The curriculum, which is provided to students in grades 9 & 12, helps students to make plans and take actions that lead to a healthy and balanced life for themselves and the world around them. Health education is for students in grades 9 through 12. Starting in 2023 students need to earn 1.0 credit in Health to graduate.

### **Program Goals**

Instruction in Health involves the 21<sup>st</sup> Century Learning Expectations of writing effectively, reading effectively, speaking effectively, problem-solving effectively, and thinking critically. The goals of the Health program include the following:

- A. Demonstrate the ability to practice health-enhancing behaviors that will contribute to the establishment of a healthy lifestyle;
- B. Development of strategies to avoid risk-taking behavior that may lead to their premature death or disability;
- C. Demonstrate an understanding of the relationship between health and the ability to live, learn, play, and work together;
- D. Demonstrate the behaviors that will enable students to become productive citizens who value and respect themselves, others, and the environment.

### **Program Activities to be accommodated**

Activities to be housed include large and small group instruction and class work. Students will discuss, read, write, present, dramatize, and conduct research, applying skills and content learned through the utilization of material available in the classroom, as well as through the technological resources of voice, video, and print media. The Health classroom must be large enough to accommodate students working in small and large groups. Space must allow for teacher supervision of small groups and acoustics must be appropriate to control the noise level. All students are also required to meet individually with teachers in conference; therefore, appropriate quiet space should be provided. The Health classroom should function as a general





classroom with full audiovisual/technology capabilities supported with the necessary electrical and network infrastructure. Natural light, multi-level lighting, and individualized environmental control should be provided in each space.

### **Space Occupancy and Design Criteria**

The Health classroom includes the students and Health teachers. Depending on the course, a special education teacher and/or paraprofessional may share space for the instruction of small groups or individuals within the regular classroom. The following is a partial list of design elements that should be incorporated into all instructional spaces:

- The classroom configuration should maximize flexibility and interaction within and among the instructional areas for development of teaching teams and student learning.
- Each classroom should have the capability for a large number of computers.
- Digital projection systems should be utilized for visual display.
- Interactive whiteboards should be installed in all instructional areas, which should be connected to an audio-visual system and a computer.
- Ceiling height and windows should maximize natural light and accommodate daylight.
- A sidelite must be provided adjacent to all classroom doors.
- Cabinets and casework appropriate to the instructional classroom function should be provided. General classrooms should be provided with a minimum of 12 linear feet of casework, while specialty spaces should be designed to accommodate the program requirements.
- Special consideration should be given for sound transmission to minimize sound infiltration into the adjacent space.
- Whiteboards and Bulletin Boards should be provided in each instructional space.

### **Program Requirements**

The Health Department space requirements will include a classroom. The space should be designed as a flexible learning environment that is able to accommodate several teaching styles and disciplines. All furniture will be evaluated for life expectancy and all furniture and/or equipment that does not meet ADA requirements or is in poor condition will be replaced. The following pages identify specific requirements for each space.

#### **Health Classroom**

Quantity: 1

Proposed SF: 700 to 750 SF Each

#### **Space Design Concept**

The classroom should be designed for an integrated approach to technology and multiple furniture arrangements and classroom configurations. The space should function as an office for the teacher and study hall for students.

#### **Program Activities**

Support a number of teaching styles, including lectures, small group and individual instruction.

#### **Loose Furnishings**

# New Fairfield High School

## Educational Specifications

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Modular rectangular tables with chairs  
Circular tables for small groups with chairs  
Mobile computer stations  
Teacher Desk and Chair  
Lateral/vertical file cabinet

### **Fixed Equipment**

Acoustical treatment  
Marker/whiteboard (Multiple)  
Tack board & display boards  
Projection screen/surfaces  
Flag Bracket & Flag  
Display and book shelves along one wall will be the department storage space  
Tall wardrobe and storage cabinet along one wall  
Fixed cabinets and accessible work surfaces

### **Finishes**

Floor material: Tile  
Base material: Rubber / Vinyl  
Wall material: Block / Sheetrock  
Ceiling material: Acoustical Tile  
ADA compliant  
Lighting: Multi level direct/indirect  
Windows: Operable with blinds - Maximize natural light  
Fire extinguisher & suppression

### **Special Requirements**

Specialty lighting  
HVAC systems including Air Conditioning  
Natural and indirect/direct Lighting

### **Technology**

Power outlet  
Media projection system / Smart boards  
Voice, video and data ports  
Security  
Integrated public address system

## **Educational Program Specifications – Student Support Services**

### **Program Objectives**

New Fairfield High School has a comprehensive student support structure. This program includes the special education teachers, paraprofessionals, the social worker, the school psychologist, the school counselors, the school nurse, the speech and language pathologist, and the occupational and physical therapist. In addition, the reading teacher provides support to students. These professionals provide a continuum of services in



self-contained and mainstream settings. With several new intervention initiatives, such as SRBI and PBIS, the number of students requiring services has been increasing over the past several years. All students who attend New Fairfield, no matter their educational abilities, are entitled to receive appropriate educational services in the least restrictive environment that will enable them to full equality of access. The diversity of educational and behavioral student support needs necessitates a variety of spaces to accommodate instructional activities.

### **Program Goals**

Instruction and support involve the 21<sup>st</sup> Century Learning Expectations of writing effectively, reading effectively, speaking effectively, problem-solving effectively, and thinking critically. In addition to the educational programs designed specifically to meet the individualized needs of the students, Individualized Education Plans (IEP) are implemented in inclusive settings with appropriate support staff. Other support staff provides individualized student support based upon academic needs defined by assessment data, behavioral data, social-emotional concerns, and state requirements, such as the Student Success Plan and assisting in the college planning process.

### **Program Activities to be accommodated**

Student Support Services consists of Resource Rooms, Life Skills, Speech and Language Services, Psychological Services, Social Work Services, the school nurse, and School Counseling Services, including the College and Career Center. Other appropriate services as determined by the students' Individual Education Plans (IEP) are also included. As all of the above are fairly specialized, so are their respective activities. Activities range from regular classroom instruction to testing, learning fundamental living skills in a residential-like environment, traditional counseling services, specialized physical education, and other specialized activities aimed at the individual.

### **Space Occupancy and Design Criteria**

The space design criterion includes the student's special education teacher, professionals, and aides. The following is a partial list of design elements that should be incorporated into the all spaces to accommodate students with special needs:

- A. Sensory-friendly lighting and acoustics would be beneficial for students with autism, hearing difficulties, and attention deficits.
- B. Life skills programs should be placed with ready access to the mainstream classrooms.
- C. Special education classrooms must provide efficient emergency egress.
- D. All classrooms should have ample locked storage space for materials and records.
- E. Flexible work stations should support both individual and small group instruction.
- F. Classroom technology in special education settings should be equal to that offered in mainstream settings.
- G. All classrooms should be equipped with a telephone line, clock, multiple outlets, whiteboards, bulletin boards, and wiring for computer network capability and internet access.
- H. Each classroom should have audiovisual capability and the flexibility to accommodate large and small group activities and individual instruction.
- I. General education classrooms will require commensurate standards for the inclusion of special education students.
- J. Access to technology should be provided in all spaces.
- K. Digital projection systems should be utilized for visual display.
- L. Interactive whiteboards should be installed in all instructional areas.
- M. Ceiling height and windows should maximize natural light and accommodate daylight.



- N. Glass sidelites must be provided adjacent to all classroom doors.
- O. Cabinets and casework appropriate to the instructional studio function should be provided.
- P. Speaker systems should be incorporated into all instructional spaces.
- Q. Whiteboards and Bulletin Boards should be provided in each instructional space.

### **School Counseling Department (Suite)**

The School Counseling department is a service to students, teachers, parents, the community, and the professional staff of New Fairfield High School. In general, the counseling department, both on an individual and group basis, assists each student with his/her emotional and physical needs. Counselors with specialized professional training provide the following services:

- A. Individual and group counseling
- B. College preparation and application processes
- C. Developmental guidance
- D. New student orientation
- E. Teacher and parent consultation
- F. Transition planning
- G. Consulting
- H. Career Awareness
- I. Referral
- J. Screening
- K. Testing and test preparation
- L. Monitoring placed students
- M. Enrollment and transfer paperwork
- N. Scheduling
- O. Student Intervention Team Management
- P. Development and management of Student Success Plans

### **Space Occupancy and Design Criteria**

#### **Occupancy:**

- A. School Counselors
- B. Social Worker
- C. School Psychologist
- D. Secretary

#### **Design Criteria:**

- A. Conference Room
  - a. Fit up to 15 people
  - b. Built-Ins
  - c. Privacy Considerations
- B. Five Offices
- C. Office/Reception Area
- D. Private waiting area
- E. Student Records Vault



- a. This currently does not exist. File cabinets are stored in many different spaces throughout the school, in and out of the counseling suite area.
- F. Supply Closet
  - G. Resource Center (Career, college and Student Success Plan)

## School Health Suite

**Program Objectives/Goals:** The New Fairfield High School Health Suite is needed to help students achieve and maintain high standards of health and recognize the relationship of health with educational programs. The school nurse maintains student health by assessing and treating chronic and acute illness and injury, medication administration, routine and special physical examinations, vision and hearing screenings, scoliosis exams, and immunization compliance reviews. The school nurse also manages paperwork for athletic physical exams, mandatory health assessment records, and cumulative health records, requirements to participate in academics and athletics. Additionally the school nurse completes required state surveys for immunizations, concussions, asthma, and other health concerns. The school nurse also acts as a resource person for health education programs, families, students and provides support to school personnel. The nurse should be involved in the coordination with special education students.

**Program Requirements and Activities:** The program encompasses many activities including physical assessments, screenings, monitoring, treatments, medication administration, and immunization compliance follow up.

- Supporting students with healthcare plans
- Responding to students with injuries and/or illnesses
- Annual screenings
- Maintaining student health records
- Verifying immunization compliance for community safety

**Space Occupancy:** The health office must have space for the following:

- Nurse office space (for privacy during student and/or parent conferences) and exam area (for privacy during health examinations)
- Waiting area for up to five students
- Divided cot area for rest
- Isolation space for students with suspected or confirmed communicable disease
- An exterior window
- Handicapped bathroom with ventilation
- Appropriate storage for medication and other supplies

## Educational Program Specifications - Health Office

Quantity: 1

Program Requirements:

The Health Office Suite should have adequate private space for medication administration, treatment of ill and injured students, rest, isolation, conferences with students, parents, and faculty, and an exam room with



adequate lighting for health assessments. A handicapped accessible bathroom with adequate ventilation must be included.

**Space Design Concept/Design Criteria:**

- A. Student Records Vault
  - a. This currently does not exist. File cabinets are stored in many different spaces throughout the office and basement storage area, which takes up a lot of space and is often inaccessible.
- B. Waiting area for up to 5 students (the current one only houses one comfortably)
- C. Examination area/room with dressing room, sink, storage
- D. Nurse's Office Space
- E. Isolation Space (currently houses two students and acts as nurse storage)
- F. Handicap Bathroom and sink and storage shelves (the closest handicapped bathroom is currently the women's faculty bathroom in the English wing)

**Program Activities:**

Support the health and well-being of the New Fairfield High School community.

**Loose furnishings:**

- Nurse desk and chair
- Laptop (for nurse) and tablet (for student sign in)
- Waiting area chairs (non-porous surface)
- Cots
- Refrigerator with freezer
- Locking medication storage
- Locking file cabinets
- Non locking file cabinets
- Specialized biohazard waste disposal containers
- Medical equipment for emergency, exam, and treatments
- Moveable light with magnification
- Bookshelves
- Copy/fax machine
- Wheelchairs

**Fixed Equipment:**

- Curtains/dividers (wrap around if cots are in same room)
- Display boards/bulletin boards
- Adequate and accessible cabinets and countertops, tall wardrobes and storage cabinets
- Sink
- Adequate lighting
- Wheelchair and crutches storage
- Scale with capability to measure height

**Special Education Offices**

Quantity: 2



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Proposed SF: 150 to 175 SF Each

### **Space Design Concept**

The space should be designed to accommodate typical private office equipment and a small conference table for up to four individuals. All office should have exterior windows have an adjacent record storage room and conference room.

### **Program Activities**

Individual student assessment

### **Loose Furnishings**

Shelves

Desks and Chairs

Conference table and chairs

Lateral/vertical file cabinet

### **Fixed Equipment**

Marker/whiteboard

Tack board & display boards

Fixed cabinets and accessible work surfaces

### **Finishes**

Floor material: VCT or Carpet with Rubber Base

Wall material: Block and /or Sheetrock with paint finish

Ceiling material: Acoustical Tile

Hardware: ADA compliant

Lighting: Multi level direct/indirect

Windows: Operable with blinds or shades with natural light preferred

### **Special Requirements**

HVAC systems including Air Conditioning

### **Technology**

Power outlet

Voice, video and data ports

Security per school safety plan

Wireless & Hard-wired Network

Integrated public address system

### **Life Skills**

Quantity: 1

Proposed SF: 700 to 950 SF

### **Space Design Concept**

# New Fairfield High School

## Educational Specifications

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The classroom should be designed for an integrated approach to technology and multiple furniture arrangements and classroom configurations and promote active living skills. The classroom should accommodate 12 – 15 students.

### **Program Activities**

Instructional space for students with disabilities to learn life skills. The space will provide a private, safe, secure area for de-escalation and counseling services and a storage room within the classroom for equipment such as wheelchairs, walkers, therapy equipment etc.

### **Loose Furnishings**

Modular rectangular tables with chairs  
Circular tables for small groups with chairs  
Fixed computer stations  
Teacher Desk and Chair  
Lateral/vertical file cabinet

### **Fixed Equipment**

Marker/whiteboard  
Tack board & display boards  
Projection screen/surfaces  
Flag Bracket & Flag  
Display and bookshelves  
Tall wardrobe and storage cabinet  
Fixed cabinets and accessible work surfaces  
Home-style kitchen with stove, sink, microwave

### **Finishes**

Floor material: VCT or Carpet and Rubber Base  
Wall material: Block and /or Sheetrock with paint finish  
Ceiling material: Acoustical Tile  
Hardware: ADA compliant  
Lighting: Multi level direct/indirect  
Windows: Operable with blinds or shades with maximized natural light

### **Special Requirements**

Specialty lighting  
HVAC systems including Air Conditioning

### **Technology**

Power outlet: floor and walls  
Media projection system or Interactive Whiteboard  
Voice, video and data ports  
Security per school safety plan  
Portable sound system  
Wireless & Hard-wired Network





Integrated public address system

### **Resource Rooms**

Quantity: 4

Proposed SF: 450 to 500 SF Each

### **Space Design Concept**

The small group classroom should be designed for an integrated approach to technology and multiple furniture arrangements and classroom configurations. The space will function as an instructional classroom for eight to ten students and will be proximate to the special education resource rooms. This space is where special education teachers and paraprofessionals will work.

### **Program Activities**

Support a number of teaching styles, including lectures, small group and individual instruction.

### **Loose Furnishings**

Modular rectangular tables with chairs to support up to 25 students

Circular tables for small groups with chairs

Fixed computer stations

Teacher Desk and Chair

Lateral/vertical file cabinet

### **Fixed Equipment**

Marker/whiteboard

Tack board & display boards

Projection screen/surfaces

Flag Bracket & Flag

Display and bookshelves

Tall wardrobe and storage cabinet

Fixed cabinets and accessible work surfaces

### **Finishes**

Floor material: VCT or Carpet and Rubber Base

Wall material: Block and /or Sheetrock with paint finish

Ceiling material: Acoustical Tile

Hardware: ADA compliant

Lighting: Multi level direct/indirect

Windows: Operable with blinds or shades with maximized natural light

### **Special Requirements**

HVAC systems including Air Conditioning

### **Technology**

Power outlet: floor and walls

Media projection system or Interactive Whiteboard

# New Fairfield High School

## Educational Specifications

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Voice, video and data ports  
Security per school safety plan  
Portable sound system  
Integrated public address system

### **Special Education Department Storage**

Quantity: 1  
Proposed SF: 150 to 250 SF Each

### **Space Design Concept**

The storage should be designed to accommodate art supplies, media storage, student records, and department specific equipment.

### **Program Activities**

Storage of educational materials.

### **Loose Furnishings**

Lateral and or vertical file cabinet

### **Fixed Equipment**

Shelves to accommodate 600+ books  
Secure storage cabinet

### **Finishes**

Floor material: VCT with Rubber Base  
Wall material: Block and /or Sheetrock with paint finish  
Ceiling material: Acoustical Tile  
Hardware: ADA compliant  
Lighting: Standard

### **Special Requirements**

HVAC systems exhaust and cooling if necessary

### **Technology**

Power outlet  
Security per school safety plan  
Integrated public address system

### **Reading, Writing, and Math Support**

Quantity: 1 - 2  
Proposed SF: 300 to 450 SF

### **Space Design Concept**

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The instructional space should be designed to accommodate eight to ten students, individual work area and a work/planning area. This room should be centrally located so it can be accessed by all High School students.

**Program Activities**

Small group instruction.

**Loose Furnishings**

Modular rectangular tables with chairs to support up to 8 students  
Circular tables for small groups with chairs

**Fixed Equipment**

Marker/whiteboard  
Tack board & display boards  
Projection screen/surfaces  
Flag Bracket & Flag  
Fixed cabinets and accessible work surfaces

**Finishes**

Floor material: VCT or Carpet with Rubber Base  
Wall material: Block and /or Sheetrock with paint finish  
Ceiling material: Acoustical Tile  
Hardware: ADA compliant  
Lighting: Multi level direct/indirect  
Windows: Operable with blinds or shades with natural light preferred

**Special Requirements**

HVAC systems including Air Conditioning

**Technology**

Power outlet: floor and walls  
Media projection system or Interactive Whiteboard  
Voice, video and data ports  
Security per school safety plan  
Portable sound system  
Wireless & Hard-wired Network  
Integrated public address system

**Secretary / Reception**

Quantity: 1 (To be located in the School Counseling Suite)  
Proposed SF: 150 to 200 SF

**Space Design Concept**

The secretarial work area will accommodate work space for one secretary and include casework that will be lockable. A fixed secure closet for confidential materials and supplies with shelves and coat hooks.

**Program Activities**



Provide administrative support to the Guidance Department.

**Loose Furnishings**

Shelves  
Desks and Chairs  
Lateral/vertical file cabinet

**Fixed Equipment**

Marker/whiteboard  
Tack board & display boards  
Fixed cabinets and accessible work surfaces

**Finishes**

Floor material: VCT or Carpet with Rubber Base  
Wall material: Block and /or Sheetrock with paint finish  
Ceiling material: Acoustical Tile  
Hardware: ADA compliant  
Lighting: Multi level direct/indirect  
Windows: Operable with blinds or shades with natural light preferred

**Special Requirements**

HVAC systems including Air Conditioning

**Technology**

Power outlet  
Voice, video and data ports  
Security per school safety plan  
Wireless & Hard-wired Network  
Integrated public address system

**Waiting Area**

Quantity: 1(To be located in the School Counseling Suite)  
Proposed SF: 100 to 150 SF

**Space Design Concept**

The waiting area will accommodate seating for 5 to 10 individuals with a combination of individual seating and tables and chair settings. The waiting area will be part of the common space which will include areas for free standing bookcases, file cabinets and a student form cabinet. This space should be shared with the waiting area for the nurse's clinic.

**Program Activities**

Waiting area and document dissemination.

**Loose Furnishings**

Shelves



Conference table and chairs

**Fixed Equipment**

Marker/whiteboard

Tack board & display boards

Fixed cabinets and accessible work surfaces

**Finishes**

Floor material: VCT or Carpet with Rubber Base

Wall material: Block and /or Sheetrock with paint finish

Ceiling material: Acoustical Tile

Hardware: ADA compliant

Lighting: Multi level direct/indirect

Windows: Operable with blinds or shades with natural light preferred

**Special Requirements**

HVAC systems including Air Conditioning

**Technology**

Power outlet

Voice, video and data ports

Security per school safety plan

Wireless & Hard-wired Network

Integrated public address system

**Counseling/Social Worker/Psychologist Office**

Quantity: 7 (To be located in the School Counseling Suite)

Proposed SF: 150 to 175 SF Each

**Space Design Concept**

The space should be designed to accommodate typical private office equipment and a small conference table for up to four individuals. All office should have exterior windows.

**Program Activities**

Individual counseling

**Loose Furnishings**

Shelves

Desks and Chairs

Conference table and chairs

Lateral/vertical file cabinet

Comfortable seating / couch

**Fixed Equipment**

Marker/whiteboard

# New Fairfield High School

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Tack board & display boards  
Fixed cabinets and accessible work surfaces

### **Finishes**

Floor material: VCT or Carpet with Rubber Base  
Wall material: Block and /or Sheetrock with paint finish  
Ceiling material: Acoustical Tile  
Hardware: ADA compliant  
Lighting: Multi level direct/indirect  
Windows: Operable with blinds or shades with natural light preferred

### **Special Requirements**

HVAC systems including Air Conditioning

### **Technology**

Power outlet  
Voice, video and data ports  
Security per school safety plan  
Wireless & Hard-wired Network  
Integrated public address system

### **Counseling Storage/Document storage**

Quantity: 1  
Proposed SF: 300 to 350 SF

### **Space Design Concept**

There is currently limited storage for the counseling department; items such as supplies and required records are stored throughout the current space with little organization. Storage area must accommodate paper supplies, instructional supplies, testing materials (PSAT, SAT, ACT, Developmental Guidance materials etc.), SIT files, 504 files, withdrawn student files, etc.

### **Program Activities**

Secure, fireproof area for records storage

### **Loose Furnishings**

Work Table  
Lateral and vertical file cabinets  
Storage shelving

### **Fixed Equipment**

Secure storage cabinet

### **Finishes**

Floor material: VCT with Rubber Base



Wall material: Block and /or Sheetrock with paint finish

Ceiling material: Acoustical Tile

Hardware: ADA compliant

Lighting: Standard

### **Special Requirements**

HVAC systems exhaust and cooling if necessary

### **Technology**

Power outlet

Security per school safety plan

Integrated public address system

### **Student Support Services Conference/Testing Room**

Quantity: 1 (To be located in the School Counseling Suite)

Proposed SF: 250 to 300 SF

### **Space Design Concept**

The space should be designed to accommodate a conference table for up to twelve individuals.

### **Program Activities**

Small group instruction and meetings

### **Loose Furnishings**

Shelves

Conference table and chairs

### **Fixed Equipment**

Marker/whiteboard

Tack board & display boards

Fixed cabinets and accessible work surfaces

### **Finishes**

Floor material: VCT or Carpet with Rubber Base

Wall material: Block and /or Sheetrock with paint finish

Ceiling material: Acoustical Tile

Hardware: ADA compliant

Lighting: Multi level direct/indirect

Windows: Operable with blinds or shades with natural light preferred

### **Special Requirements**

HVAC systems including Air Conditioning

### **Technology**

Power outlet

Media projection system or Interactive Whiteboard

# New Fairfield High School

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Voice, video and data ports  
Security per school safety plan  
Wireless & Hard-wired Network  
Integrated public address system

### **Student Career Center**

Quantity: 1 (To be located in the School Counseling Suite)  
Proposed SF: 450 to 500 SF

### **Space Design Concept**

The space should be designed to accommodate a conference table for up to twelve individuals. Individual college search workstations, informational library and job posting area.

### **Program Activities**

Small group instruction and meetings and career and college preparatory information

### **Loose Furnishings**

Compute Stations  
Work tables and chairs  
Lateral/vertical file cabinet  
Conference / Meeting Area Table & Chairs

### **Fixed Equipment**

Marker/whiteboard  
Tack board & display boards  
Fixed cabinets and accessible work surfaces

### **Finishes**

Floor material: VCT or Carpet with Rubber Base  
Wall material: Block and /or Sheetrock with paint finish  
Ceiling material: Acoustical Tile  
Hardware: ADA compliant  
Lighting: Multi level direct/indirect  
Windows: Operable with blinds or shades with natural light preferred

### **Special Requirements**

HVAC systems including Air Conditioning  
Natural and indirect/direct Lighting

### **Technology**

Power outlet  
Media projection system or Interactive Whiteboard  
Voice, video and data ports  
Security per school safety plan  
Wireless & Hard-wired Network





Integrated public address system

### **Teacher Workroom**

Quantity: 1

Proposed SF: 300 to 350 SF

### **Space Design Concept**

The workroom should be designed to accommodate the work/planning area, copier, limited equipment and secure media storage.

### **Program Activities**

Teacher planning and preparation area.

### **Loose Furnishings**

Compute Stations

Work tables and chairs

Lateral/vertical file cabinet

### **Fixed Equipment**

Marker/whiteboard

Tack board & display boards

Fixed cabinets and accessible work surfaces

### **Finishes**

Floor material: VCT or Carpet with Rubber Base

Wall material: Block and /or Sheetrock with paint finish

Ceiling material: Acoustical Tile

Hardware: ADA compliant

Lighting: Multi level direct/indirect

Windows: Operable with blinds or shades with natural light preferred

### **Special Requirements**

HVAC systems including Air Conditioning

### **Technology**

Power outlet

Media projection system or Interactive Whiteboard

Voice, video and data ports

Security per school safety plan

Wireless & Hard-wired Network

Integrated public address system

per the district's technology plan

Integrated public address system

### **Nurse / Health Clinic**

Quantity: 1



Proposed SF: 500 to 1,000 SF

### **Space Design Concept**

The clinic should be located close to the main office and counseling suite so it is easily accessible to all students. The clinic will include a waiting area, semi-private cubicles with a cot for students, a handicapped accessible toilet, storage and an exam room.

### **Program Activities**

Treatment of sick students.

### **Loose Furnishings**

Computer Workstation with chair  
Chairs for patients  
Cots  
Work Tables  
Nurse's Desk and Chair  
Lateral file cabinet

### **Fixed Equipment**

Acoustical treatment  
Tack board & display boards  
Book shelves  
Tall wardrobe and storage cabinet  
Fixed cabinets and accessible work surfaces  
Sink in the main clinic space

### **Finishes**

Floor material: VCT or Carpet with Rubber Base  
Wall material: Block and /or Sheetrock with paint finish  
Ceiling material: Acoustical Tile  
Hardware: ADA compliant  
Lighting: Multi level direct/indirect  
Windows: Operable with blinds or shades with natural light preferred

### **Special Requirements**

HVAC systems including Air Conditioning  
Operable windows

### **Technology**

Power outlet  
TV Monitor  
Voice, video and data ports  
Security per school safety plan  
Wireless & Hard-wired Network  
Integrated public address system



### **Nurse / Exam Room**

Quantity: 1

Proposed SF: 150 to 200 SF

### **Space Design Concept**

The exam room will be accessed from the clinic and will serve as a private exam room for students/patients.

### **Program Activities**

Treatment of sick students

### **Loose Furnishings**

Compute Stations

Work tables and chairs

Lateral/vertical file cabinet

### **Fixed Equipment**

Marker/whiteboard

Tack board & display boards

Fixed cabinets and accessible work surfaces

### **Finishes**

Floor material: VCT or Carpet with Rubber Base

Wall material: Block and /or Sheetrock with paint finish

Ceiling material: Acoustical Tile

Hardware: ADA compliant

Lighting: Multi level direct/indirect

Windows: Operable with blinds or shades with natural light preferred

### **Special Requirements**

HVAC systems including Air Conditioning

Operable windows

Handicap bathroom

Sink

### **Technology**

Power outlet

Voice, video and data ports

Security per school safety plan

Wireless & Hard-wired Network

Integrated public address system

### **Waiting Area**

Quantity: 1 (To be located in the Nurses Suite)

Proposed SF: 100 to 150 SF



### **Space Design Concept**

The waiting area will accommodate seating for 5 to 10 individuals with a combination of individual seating and tables and chair settings. The waiting area will be part of the common space which will include areas for free standing bookcases, file cabinets and a student form cabinet. This space should be shared with the waiting area for the counseling suite.

### **Program Activities**

Waiting area and document dissemination.

### **Loose Furnishings**

Side tables with chairs  
Individual chairs

### **Fixed Equipment**

Marker/whiteboard  
Tack board & display boards  
Fixed cabinets and accessible work surfaces

### **Finishes**

Floor material: VCT or Carpet with Rubber Base  
Wall material: Block and /or Sheetrock with paint finish  
Ceiling material: Acoustical Tile  
Hardware: ADA compliant  
Lighting: Multi level direct/indirect  
Windows: Operable with blinds or shades with natural light preferred

### **Special Requirements**

Specialty lighting Multi-Level  
HVAC systems including Air Conditioning

### **Technology**

Power outlet  
Voice, video and data ports  
Security per school safety plan  
Wireless & Hard-wired Network  
Integrated public address system

### **Nurse Storage/Document storage**

Quantity: 1  
Proposed SF: 200 to 250 SF

### **Space Design Concept**

There is currently no storage for the nurses; items such as supplies and required records are stored throughout the current small nurse's area. Storage area must accommodate nursing supplies, testing equipment, and required records as prescribed state law.



### **Program Activities**

Secure, fireproof area for records storage

### **Loose Furnishings**

Work Table

Lateral and vertical file cabinets

Storage shelving

### **Fixed Equipment**

Shelves

Secure storage cabinet

### **Finishes**

Floor material: VCT with Rubber Base

Wall material: Block and /or Sheetrock with paint finish

Ceiling material: Acoustical Tile

Hardware: ADA compliant

Lighting: Standard

### **Special Requirements**

HVAC systems including Air Conditioning

Secure / Lockable storage cabinets for medicine

### **Technology**

Power outlet

Voice, video and data ports

Security per school safety plan

Wireless & Hard-wired Network

Integrated public address system

## **Educational Program Specifications – Administration**

### **Program Objectives**

The administrative offices will be designed to provide support the efficient operation of the administrative and secretarial staff. The office suite should be able to house the school principal, associate principal, special services director and two support/secretarial staff. The school nurse/clinic and the counseling suite will be located adjacent to the office space. The administrative offices should be located at the main school entrance and provide control for all visitors and students entering and leaving the school.

### **Program Activities to be accommodated**

The administrative facilities will accommodate offices, and other administrative support spaces including the following:

- Offices
- Conference Room
- Work Room



- Teachers' lounge
- General & student record storage
- Secretarial stations
- Waiting Area
- Storage Space
- Handicapped Accessible Toilet

### **Space Occupancy and Design Criteria**

The individual's utilization the space includes the administrators, students and teacher, volunteers and the community. The following is a partial list of design elements that should be incorporated into the design of the spaces:

- The main office should control all access from the main entrance to the school.
- Access to technology should be provided through the conference and office areas.
- Digital projection systems should be utilized for visual display in the main conference room.
- Interactive whiteboards should be installed in the main conference room.
- Ceiling height and windows should maximize natural light and accommodate day-lighting.
- Sidelites must be provided adjacent to all doors.
- Cabinets and casework must be provided in all offices and at the secretarial workstations.
- All spaces will be fully accessible.
- Waiting areas should be provided.
- Individualized temperature control for all spaces.
- Communication and video security control to all spaces and egress points.

### **Proposed Program and Concept Plan**

The program developed for the administrative offices focuses on reusing the existing space and meeting program deficiencies by addressing space layout and secure casework for storage. Natural light and environmental issues will be priorities. The administrative offices must be located at the entrance to the school and provide an excellent point of control.

### **Program Requirements**

Separate entrance for visitors and more privacy between the Nurses Suite and the Main Office.

### **Principal's Office**

Quantity: 1

Proposed SF: 175 to 225 SF

### **Space Design Concept**

The office should be designed for easy access and include adequate space for a small conference/meeting area. A coat and storage closet should be provided within the space.

### **Program Activities**

Administrative office and small meeting groups

### **Loose Furnishings**

Shelves



Desks and Chairs  
Conference table and chairs  
Lateral/vertical file cabinet

**Fixed Equipment**

Marker/whiteboard  
Tack board & display boards  
Fixed cabinets and accessible work surfaces

**Finishes**

Floor material: VCT or Carpet with Rubber Base  
Wall material: Block and /or Sheetrock with paint finish  
Ceiling material: Acoustical Tile  
Hardware: ADA compliant  
Lighting: Multi level direct/indirect  
Windows: Operable with blinds or shades with natural light preferred

**Special Requirements**

HVAC systems including Air Conditioning

**Technology**

Power outlet  
Voice, video and data ports  
Security per school safety plan  
Wireless & Hard-wired Network  
Integrated public address system

**Assistant Principals Office**

Quantity: 2  
Proposed SF: 150 to 200

**Space Design Concept**

The office should be designed to include adequate space for a small conference/meeting area. A coat and storage closet should be provided within the space.

**Program Activities**

Administrative office and small meeting groups

**Loose Furnishings**

Shelves  
Desks and Chairs  
Conference table and chairs  
Lateral/vertical file cabinet

**Fixed Equipment**

Marker/whiteboard

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Tack board & display boards  
Fixed cabinets and accessible work surfaces

### **Finishes**

Floor material: VCT or Carpet with Rubber Base  
Wall material: Block and /or Sheetrock with paint finish  
Ceiling material: Acoustical Tile  
Hardware: ADA compliant  
Lighting: Multi level direct/indirect  
Windows: Operable with blinds or shades with natural light preferred

### **Special Requirements**

HVAC systems including Air Conditioning

### **Technology**

Power outlet  
Voice, video and data ports  
Security per school safety plan  
Wireless & Hard-wired Network  
Integrated public address system

### **Special Services Office**

Quantity: 1  
Proposed SF: 175 to 225 SF

### **Space Design Concept**

The office should be designed to include adequate space for a small conference/meeting area. A coat and storage closet should be provided within the space

### **Program Activities**

Administrative office and small meeting groups

### **Loose Furnishings**

Shelves  
Desks and Chairs  
Conference table and chairs  
Lateral/vertical file cabinet

### **Fixed Equipment**

Marker/whiteboard  
Tack board & display boards  
Fixed cabinets and accessible work surfaces

### **Finishes**

Floor material: VCT or Carpet with Rubber Base

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Wall material: Block and /or Sheetrock with paint finish  
Ceiling material: Acoustical Tile  
Hardware: ADA compliant  
Lighting: Multi level direct/indirect  
Windows: Operable with blinds or shades with natural light preferred

### **Special Requirements**

HVAC systems including Air Conditioning

### **Technology**

Power outlet  
Voice, video and data ports  
Security per school safety plan  
Wireless & Hard-wired Network  
Integrated public address system

### **In School Suspension**

Quantity: 1  
Proposed SF: 150 to 250 SF

### **Space Design Concept**

The In-School Suspension space should be designed to accommodate 5 to 6 students, in a small classroom environment with minimal privileges individual work area and a work/planning area.

### **Program Activities**

Small group instruction

### **Loose Furnishings**

Shelves  
Desks and Chairs  
Conference table and chairs  
Lateral/vertical file cabinet  
Mobile Computer Stations

### **Fixed Equipment**

Marker/whiteboard  
Tack board & display boards  
Fixed cabinets and accessible work surfaces

### **Finishes**

Floor material: VCT or Carpet with Rubber Base  
Wall material: Block and /or Sheetrock with paint finish  
Ceiling material: Acoustical Tile  
Hardware: ADA compliant  
Lighting: Multi level direct/indirect  
Windows: Operable with blinds or shades with natural light preferred



**Special Requirements**

HVAC systems including Air Conditioning

**Technology**

- Power outlet
- Voice, video and data ports
- Security per school safety plan
- Wireless & Hard-wired Network
- Integrated public address system

**Main Office/Principals' Conference Room**

Quantity: 1

Proposed SF: 200 to 400 SF

**Space Design Concept**

The conference rooms should seat 10 to 16 individuals in a comfortable setting. The large conference room should include voice, video, and data and digital projection.

**Program Activities**

Meeting space and small group presentation

**Loose Furnishings**

Conference table for small groups with chairs 14 to 16 in the large conference room.

**Fixed Equipment**

- Marker/whiteboard
- Tack board & display boards
- Fixed cabinets and accessible work surfaces

**Finishes**

- Floor material: VCT or Carpet with Rubber Base
- Wall material: Block and /or Sheetrock with paint finish
- Ceiling material: Acoustical Tile
- Hardware: ADA compliant
- Lighting: Multi level direct/indirect
- Windows: Operable with blinds or shades with natural light preferred

**Special Requirements**

HVAC systems including Air Conditioning

**Technology**

- Power outlet
- Projector / Display System
- Voice, video and data ports
- Security per school safety plan



Wireless & Hard-wired Network  
Integrated public address system

### **Main Office Waiting Area**

Quantity: 2  
Proposed SF: 100 to 300 SF Each

### **Space Design Concept**

There will be one designated waiting area for the Main Office. It will be located adjacent to the reception/secretarial area with seating for 6 to 8. There will be a much smaller waiting area inside the Main Office Suite that is isolated and private. This should accommodate up to 4 people.

### **Program Activities**

Waiting area for students and visitors

### **Loose Furnishings**

Comfortable seating  
Small tables

### **Fixed Equipment**

Marker/whiteboard  
Tack board & display boards  
Fixed cabinets and accessible work surfaces

### **Finishes**

Floor material: VCT or Carpet with Rubber Base  
Wall material: Block and /or Sheetrock with paint finish  
Ceiling material: Acoustical Tile  
Hardware: ADA compliant  
Lighting: Multi level direct/indirect  
Windows: Operable with blinds or shades with natural light preferred

### **Special Requirements**

HVAC systems including Air Conditioning

### **Technology**

Power outlet  
Voice, video and data ports  
Security per school safety plan  
Wireless & Hard-wired Network  
Integrated public address system

### **Secretarial Area**

Quantity: 1  
Proposed SF: 500 to 600 SF (Room for two secretaries)



### **Space Design Concept**

The secretarial stations will be designed to facilitate efficient operations and planning functions of the school. The space should be open and inviting to all visitors, yet also provide privacy of records. Secure casework must be provided for storage of records and supplies. There should be a counter to designate the waiting area from the secretarial area.

### **Program Activities**

Support administrative staff and school operations.

### **Loose Furnishings**

Computer Workstations with chair  
Work Tables  
Desk and Chair  
Lateral file cabinet  
Visitor Chair

### **Fixed Equipment**

Marker/whiteboard  
Tack board & display boards  
Fixed cabinets and accessible work surfaces

### **Finishes**

Floor material: VCT or Carpet with Rubber Base  
Wall material: Block and /or Sheetrock with paint finish  
Ceiling material: Acoustical Tile  
Hardware: ADA compliant  
Lighting: Multi level direct/indirect  
Windows: Operable with blinds or shades with natural light preferred

### **Special Requirements**

HVAC systems including Air Conditioning

### **Technology**

Power outlet  
Voice, video and data ports  
Security per school safety plan  
Wireless & Hard-wired Network  
Integrated public address system

### **Main Office General Storage**

Quantity: 1  
Proposed SF: 100 to 250 SF



**Space Design Concept**

Storage of main office supplies in a secure fire rated room

**Program Activities**

Student record storage

**Loose Furnishings**

Lateral and or vertical file cabinet

**Fixed Equipment**

Shelves

Secure storage cabinet

**Finishes**

Floor material: VCT with Rubber Base

Wall material: Block and /or Sheetrock with paint finish

Ceiling material: Acoustical Tile

Hardware: ADA compliant

Lighting: Standard

**Special Requirements**

HVAC systems exhaust and cooling if necessary

**Technology**

Power outlet

Security per school safety plan

Integrated public address system

**Main Office Records Storage**

Quantity: 1

Proposed SF: 250 to 350 SF

**Space Design Concept**

Storage of records and in a secure fire rated room

**Program Activities**

Student record storage

**Loose Furnishings**

Lateral and or vertical file cabinet

**Fixed Equipment**

Shelves to accommodate 600+ books

Secure storage cabinet

**Finishes**

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Floor material: VCT with Rubber Base  
Wall material: Block and /or Sheetrock with paint finish  
Ceiling material: Acoustical Tile  
Hardware: ADA compliant  
Lighting: Standard

### **Special Requirements**

HVAC systems including Air Conditioning  
Sink and counter space  
Fire Rated Space

### **Technology**

Power outlet  
Security per school safety plan  
Integrated public address system

### **Teachers' Lounge**

Quantity: 1  
Proposed SF: 300 to 400 SF

### **Space Design Concept**

A space with comfortable seating that teachers can use in their free or lunch time for informal discussions with co-workers. The space can be adjacent to the work room and have faculty toilets nearby. There are currently two lounges, if the space is centrally located only one would be required.

### **Program Activities**

Teachers' Lounge.

### **Loose Furnishings**

Computer Workstation with chair  
Circular table for small groups with chairs  
Comfortable Chairs  
Microwave, Refrigerator, sink

### **Fixed Equipment**

Marker/whiteboard  
Tack board & display boards  
Fixed cabinets and accessible work surfaces

### **Finishes**

Floor material: VCT or Carpet with Rubber Base  
Wall material: Block and /or Sheetrock with paint finish



Ceiling material: Acoustical Tile

Hardware: ADA compliant

Lighting: Multi level direct/indirect

Windows: Operable with blinds or shades with natural light preferred

### **Special Requirements**

HVAC systems including Air Conditioning

Kitchenette

### **Technology**

Power outlet

Voice, video and data ports

Security per school safety plan

Wireless & Hard-wired Network

Integrated public address system



## Section VII: Building Systems

### Building Systems

A major consideration in the decision to build a new facility is the condition of the original building systems and building structure. As identified in the existing conditions report the existing heating system is electric, ventilation which is non-code compliant is provided by unit ventilators that generated significant noise in the educational instruction spaces, and there are limited split system and window cooling units for A/C in the offices. The structure and floor to floor clearance does not support a fully ducted package system. The new facility for New Fairfield High School will address the following building systems:

### Safety and Security

The successful creation of a safe and secure learning environment depends on the integration of "active" and "passive" design strategies. The active approach uses hardware security systems such as cameras or motion detectors. Passive security is based on program and facility design, building and site configuration, and community participation. The district has implemented a plan in accordance with the School Safety Infrastructure (SSID) guidelines.

Other potential safety and security concerns must be evaluated in the early design stages. An example on the New Fairfield High School project includes the separation of proposed student backstage areas from the music rehearsal rooms. Since one area would be open after hours for the community and the secure, planning must take into account the secure separation

Still other means including passive measures for program and building configuration can be the primary means to foster safety and security while active security measures are applied where and when they are deemed necessary. In addition, the new program space at the New Fairfield High school can take advantage of building technology, signage and landscaping to further enhance site and building security.

### Passive Security Concepts include but are not limited to:

- Room organization that minimizes student travel time throughout the building
- Well defined entrances and exit only areas
- Planning that avoids blind spots, un-necessary comers, and corridor recesses greater than one foot
- Locating administrative and teacher preparation areas or offices with good visual contact of major circulation areas [i.e., corridors, bus drop-off, parking]
- Locating actively programmed elements around the periphery of the school building so that there is "natural surveillance" from within the school to outdoor areas such as parking lots and playfields.
- Minimizing windowless, blank walls at the periphery of the building, particularly when these uses face residential areas, and parking lots.
- Planning spatial relationships in such a manner that there are natural transitions from one location to another.
- Locating restrooms in close proximity to instructional rooms to minimize travel.
- Locating areas likely to have significant community [after school] use close to parking and zoned so these areas can be closed off from the rest of the building
- Providing for natural integration of students and staff during class changes
- Providing a high degree of 'transparency' within the building.





**Active Security Concepts include but are not limited to:**

- A security consultant can help with system design and device location and should be consulted during schematic design.
- When planning a security system, it is necessary to include a provision for accessing cameras and recorded data remotely in the event the building was to become inaccessible.
- An auto-connecting system to police and fire authorities when an alarm is tripped is advisable.

**Uses of technology include but are not limited to:**

- Providing phones in every instructional and support area
- Building-wide public address system designed to be heard throughout the school and on the play fields when needed
- Motion or infrared detectors which can also be configured to conserve lighting costs

**Public Address & Phone System**

The new facility will incorporate a public address system for school wide announcements, which will be integrated with the fire alarm and security notification systems. The public address will be redundant to the digital phone system that will provide communications with all spaces with the school.

**Technology**

Technology is a key element in all contemporary schools. Just as technology is reshaping other institutions, it offers schools exciting new ways not only to meet student/ learner needs but also to manage facility operations. Technology's impact on the instructional environment should be reflected in the design of the facilities by accommodating technology infrastructure systems that account for advancements in both wired and wireless technologies. At New Fairfield High School, a wireless network will enable students to access the internet from anywhere in the high school.

New technology and interactive tools supporting collaborative activities over the Internet are impacting facility power and data requirements. As educators, teachers, and students are developing new Internet resources, school facilities must be prepared to accommodate instant access to the internet. To accommodate this growing use of technology, each room in the new facility should be considered a potential learning environment. The phasing of the addition will also require the continued accommodation of new technologies as they become more available, affordable and accessible for students, staff and administrators. Access to areas of technology concentration for afterhours use by students and community is also a consideration for the design team. Informal spaces such as commons areas should also be equipped with the potential for network connections and support impromptu learning opportunities.

It will be important for the design team to coordinate with the school's technology director and the technology staff, working closely to identify facility design opportunities that support the use of instructional technologies. Examples of areas to discuss with the technology director are: access to power and data, controllable light levels, spaces equipped for independent and/or self-directed instruction, and mechanical systems that will accommodate a potential heat gain from increased number of sources (computers, monitors, electronic music and recordings systems etc.).

To further the idea that the entire facility is a learning environment, the design of the building should also allow the possibility for digital expression, both audio & digital. While it is customary for classrooms to have a large format monitor, TV or LCD projector, other opportunities include monitors or projection capabilities



in small group rooms, informal student spaces, performance spaces, dining rooms and public lobbies.

The challenge with integrating instructional technologies into the design of an educational facility is directly linked to the magnitude of technological changes likely to occur over the next 5 years. The new spaces will successfully meet this challenge by acknowledging the many possibilities of technology and providing the agility to accommodate them.

### **Clock System**

The new facility will incorporate an independent clock system that may be wirelessly operated and synchronized. The clock system will have an auto correct feature for accurate reporting of time.

### **Heating, Ventilation and Air Conditioning (HVAC) Systems**

The new facility will be designed for code compliant ventilation, full building air-conditioning and heating. The building will implement High Performance Building Standards with future planning for alternative energy systems such as photovoltaics.

### **Fire Alarm and Sprinkler Systems**

The new facility will be designed for code compliant addressable fire alarm system and a new sprinkler system with water storage and fire pumps.

### **Emergency Generator**

The new facility will be designed to incorporate a full school emergency generator to support all building systems.

## **Educational Program Specifications – Facilities Management**

### **Program Objectives**

The physical plant and building systems infrastructure at New Fairfield must meet the latest building, Fire and Life Safety codes adopted by the State of Connecticut. In addition the renovated NFHS facility must meet and/or exceed the High Performance building standards adopted by the State, and achieve a LEED Silver or equivalent certification. Alternative energy systems should be introduced, as part of the program started by the town for energy efficiency and sustainable solutions, with the goal of making New Fairfield High School an example of environmental stewardship.

### **Program Activities to be accommodated**

The facilities management department will be responsible for the maintenance of New Fairfield High School will address the building systems and spaces identified below:

- Boiler Room
- Emergency Generator (currently none)
- Electrical Service and distribution
- Power Backup Systems
- Domestic Hot and Cold Water Systems
- Heating, Ventilation and Air Conditioning
- Fire Alarm Systems
- Sprinkler Systems



- Waste Water Systems
- Storm Drainage Systems
- Alternative Energy Systems
  - Co-Generation
  - Solar/ Photovoltaic
  - Geothermal
- Plant Maintenance / Custodial
- Building Receiving and Storage
- Equipment Storage
- Toilet Facilities
- Janitors Closets
- Maintenance Shop
- Custodial Lounge and Work room
- Custodial Locker Rooms
- Building and Grounds Office and Records Storage

### **Proposed Program and Concept Plan**

The program developed for the Building maintenance and support facilities is based on meeting the latest codes and the space requirements of the energy systems that will be designed for New Fairfield High School. Addressing ADA/OCR and Title IX; and resolving the natural light environmental issues will be programming priorities. The proposed plan will effectively deal with the storage issues.

### **Program Requirements**

The key spaces requirements of the Facilities Management office include, space for the building MEP & FP Systems, Storage, Maintenance department space, building circulation and toilets.

### **Facilities / Maintenance Offices & Workroom**

Quantity: 1

Proposed SF: 200 to 400 SF

### **Space Design Concept**

The maintenance office and workroom space should be centrally located and have access to an exterior ramp. The space will function as a meeting room for the custodial staff and will house maintenance related equipment. The space will function as a changing area for staff, include toilets and shower facilities and be adjacent to the team rooms

### **Program Activities**

Planning and support area for the maintenance staff.

### **Loose Furnishings**

Rectangular art tables with chairs	Extension ladder	Custodial carts
Computer stations	Thirty foot man lift	Flat cart
Lateral and Vertical file cabinet	Pallet jack	Vacuum Cleaners
Workbench with Vise	Desk Mover	Floor Machines
Maintenance Tools	Hand Truck	First Aid Kit
Stepladders	Floor Fans	Sweepers



Acoustical treatment  
Marker/whiteboard (Multiple)  
Tack board & display boards  
Book shelves  
Storage cabinet  
Fixed cabinets and accessible work surfaces  
Sink

**Finishes**

Floor material:	VCT / VET
Base material:	Rubber / Vinyl
Wall material:	Block / Sheetrock
Ceiling material:	Acoustical ceiling
Hardware:	ADA compliant
Lighting	Standard
Windows	Maximize natural light
Fire extinguisher & suppression	Per code

**Special Requirements**

Specialty lighting  
Deep sinks, eyewash and body shower  
HVAC systems including Air Conditioning  
Natural and indirect/direct Lighting

**Technology**

Power outlet - floor and walls  
Voice, video and data ports  
Security  
Technology equipment  
Wireless & Hard wired Network  
Integrated public address system

**Maintenance/Custodial Locker Rooms**

Quantity: 1  
Proposed SF: 200 to 250 SF

**Space Design Concept**

The maintenance locker room will function as a changing area for custodial/maintenance staff and include toilets and shower facilities.

**Program Activities**

Changing space for the custodians. This space should be connected to the office/workroom space

**Loose Furnishings**



Lockers  
Acoustical treatment

**Finishes**

Floor material:	Polished Concrete
Base material:	Tile
Wall material:	Block / Sheetrock
Ceiling material:	Water resistant ceiling
Hardware:	ADA compliant
Lighting	Standard
Windows	
Fire extinguisher & suppression	

**Special Requirements**

HVAC systems including Air Conditioning

**Technology**

Power outlet - walls  
Security  
Technology equipment  
Wireless & Hard wired Network  
Integrated public address system

**Storage**

Quantity: 5  
Proposed SF: 150 to 750 SF Each

**Space Design Concept**

Storage rooms shall be provided throughout the school. The larger storage areas should be located near the custodial work room and the boiler room(s). Chemical and combustible material storage should be in appropriately rated and vented rooms and cabinets. Equipment that uses gasoline should be stored in rooms with direct access to the exterior and in fire rated rooms.

**Program Activities**

Storage of maintenance related supplies and equipment.

**Loose Furnishings**

Industrial Shelves  
Chemical Storage Cabinets

**Fixed Equipment**

Shelves to accommodate 600+ books  
Secure storage cabinet

**Finishes**

Floor material: VCT with Rubber Base

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Wall material: Block and /or Sheetrock with paint finish  
Ceiling material: Acoustical Tile  
Hardware: ADA compliant  
Lighting: Standard

### **Special Requirements**

HVAC systems exhaust and cooling if necessary

### **Technology**

Power outlet  
Security per school safety plan  
Integrated public address system

### **Electrical Rooms**

Quantity: 2 (one in each building)  
Proposed SF: 500 to 750 SF

### **Space Design Concept**

The electrical room will house the electrical switchgear, distribution panels and other designated equipment for the operation of the school.

### **Program Activities**

Electrical room for boiler plant operation.

### **Loose Furnishings**

Safety equipment  
First Aid Kit

### **Fixed Equipment**

Acoustical treatment  
Tack board & display boards

### **Finishes**

Floor material: Concrete  
Base material: Rubber  
Wall material: Block / Sheetrock  
Ceiling material: None  
Hardware: ADA compliant  
Lighting: Utility Standard  
Windows: No  
Fire extinguisher & suppression

### **Special Requirements**

Ventilation of equipment per code



### **Technology**

Power outlet - floor and walls  
Voice and data ports  
Security  
Technology equipment  
Wireless & Hard wired Network  
Integrated public address system

### **Loading Dock and Receiving**

Quantity: 1  
Proposed SF: 300 to 350 SF

### **Space Design Concept**

Centralized delivery for food service and supply deliveries/share loading dock space; should be near the maintenance workroom, storage areas and food service areas.

### **Program Activities**

Staging area for all deliveries

### **Loose Furnishings**

Hand Dolly

### **Fixed Equipment**

Shelves Secure storage cabinet

### **Finishes**

Floor material: VCT with Rubber Base  
Wall material: Block and /or Sheetrock with paint finish  
Ceiling material: Acoustical Tile  
Hardware: ADA compliant  
Lighting: Standard

### **Special Requirements**

Ventilation of equipment per code  
Area drain in dock recess area  
Dock-leveler and bumper

### **Technology**

Power outlet  
Security per school safety plan  
Integrated public address system

### **Sprinkler Room**

Quantity: 1 (entire facility should be sprinkled)



Proposed SF: 250 to 300 SF

### Space Design Concept

Sprinkler room for the fire suppression system

### Program Activities

Mechanical equipment space

### Loose Furnishings

none

### Fixed Equipment

Tack board & display boards)

### Finishes

Floor material:	Concrete
Base material:	None
Wall material:	Block / Sheetrock
Ceiling material:	None
Hardware:	ADA compliant
Lighting	Utility Standard
Windows	No
Fire extinguisher & suppression	

### Special Requirements

Ventilation of equipment per code

Area drain in dock recess area

### Technology

Power outlet

Security per school safety plan

Integrated public address system

### Toilets and Janitors Closets

Quantity: 6 Pairs

Proposed SF: 100 to 150 SF – 4 Pairs

Proposed SF: 400 to 650 SF – 2 Pairs

### Space Design Concept

The toilets should be located in pairs with a men's and women's (boys and girls) toilet on each area of the school. Additional toilets will be located in proximity to the assembly spaces such as the auditorium and gymnasiums etc. All toilets will be accessible with a HC stall. Faculty bathrooms should be located near the faculty work rooms, lounge(s) and throughout appropriate areas of the building.





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**Program Activities**

Rest room for all occupants

**Loose Furnishings**

Toilet accessories such as soap, toilet paper etc.

**Fixed Equipment**

Acoustical treatment

Toilet accessories

Toilet Partitions

Accessible counter surfaces

**Finishes**

Floor material:

Ceramic Tile

Base material:

Ceramic Tile 6 feet high minimum

Wall material:

Block / Tile finish: Ceramic Tile

Ceiling material:

Moisture resistant Acoustical Tile Height: 8'-0" minimum

Hardware:

ADA compliant

Lighting

Multi-level direct

Windows

Translucent - Maximize natural light

Fire extinguisher & suppression

Per code

**Special Requirements**

HVAC systems including Air Conditioning

Sensor activated

Floor drains

Changing tables in specific toilets

**Technology**

Power outlet - walls

Voice and data ports

Security

Wireless & Hard wired Network

Integrated public address system



## **Section VIII: Interior Building Environment**

The new facility for New Fairfield High School will address the following interior building systems:

### **Acoustics**

The new high school will be designed to meet the acoustical standards established by the state of Connecticut. To meet the acoustical criteria acoustical ceiling, carpeting and high STC rated wall systems will be installed. Additionally, the HVAC system will be a ducted system with appropriate insulated/lined ducts to minimize noise generated by air flow. Rooftop package units will be considered in the design of the system.

### **Lighting**

The new high school will be designed with energy efficient dimmable LED lighting integrated into a daylight harvesting system. Direct and indirect lighting will be provided, based on the specific needs of each space. Natural lighting will be maximized for each instructional space.

### **Heating, Ventilation, and Air Conditioning (HVAC)**

The new facility will be designed for code compliant ventilation, full building air-conditioning and heating. Additionally, the HVAC system will be a ducted system with appropriate insulated/lined ducts to minimize noise generated by air flow. Rooftop package units will be considered in the design of the system. The building control systems will include a direct digital System that allows for individualized thermal comfort and limited controls within each space.

### **Plumbing**

The new high school sewerage system will be designed to allow the sanitary system in the building to discharges to an existing on-site DEEP septic system. New acid waste systems for the science labs, and a new storm system will be provided. Domestic water is provided to the existing High School and adjoining Middle School by an on-site well system. The well system consists of three drilled wells and bladder type well tanks located in a small pump house at the rear of the building. Two of the three well pumps are dedicated to supplying domestic water, while the other supplies both domestic water and irrigation water to the fields. Domestic water from the wells is stored in a 20,000-gallon underground tank located in the front of the building. Water from the tank is treated by a chlorination system before being supplied to the building by a constant pressure variable speed pumping system. The system will be evaluated and updated as required to meet current health codes. New high-efficiency propane-fired gas water heaters for domestic hot water will be provided in conjunction with instantaneous electric water heaters that are located throughout the building, and local to groups of fixtures.

### **Windows and Doors**

The new high school will be designed with doors and windows that criteria for energy efficiency as well as school safety and security. Energy efficient, thermally broken systems will be installed with bullet resistant level 5 glass at all secure vestibules. Laminate glass will be considered at all windows above the ground floor. Integrated room numbering will be provided at one window in each room for security identification from the exterior of the building. Limited operable windows will be installed with screens. All doors at the main level will have bullet resistant glass when lites are integrated into the doors. Door hardware will allow for safe fire egress with limited access from the exterior.

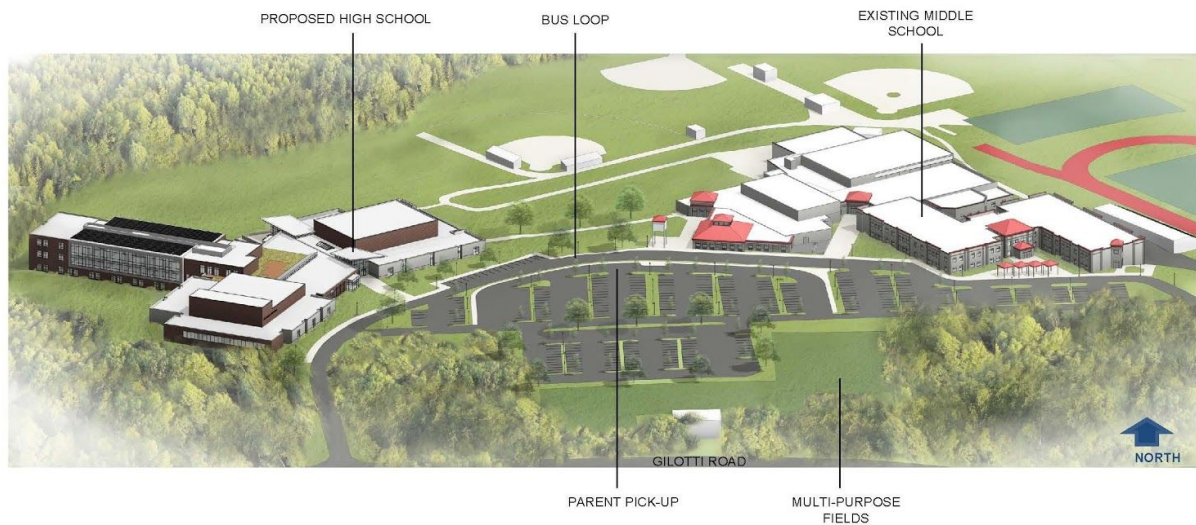


## Section IX: Site Development

### Existing Site

New Fairfield High School is a four-year comprehensive high school that was built in 1972 on a 145.5 Acre site off Gilotti Road in New Fairfield Connecticut. The building sits on a sloping site and has been designed with three levels of educational program space nestled into the slope.

The site design for New Fairfield High School will focus on site utilities, site lighting, parking, traffic flow and limited physical education all-purpose fields. As the building is being located on the existing site the existing athletic competition fields and most of the practice fields will not be impacted.



### PROPOSED SITE PLAN

#### Parking

The site design for New Fairfield High School will provide additional parking in order to meet the requirements from the planning and zoning commission. The parking will be organized into zones for visitors, staff, student and faculty. Handicapped parking will be dispersed and an accessible route to the building will be incorporated into the design.

#### Traffic Flow

The site design for New Fairfield High School will result in an approach that separates bus and car traffic and provides a designated bus loop and parent drop-off circulation minimizing any crossover. Designated parking for teachers and staff will limit student parking zones for minimal interaction with parent and bus traffic. Loading zones will be provided. Traffic flow will support the middle school and high school in sharing a start time.

#### Bus Access

New Fairfield High School site design includes a separate bus loop for complete separation of bus and parent traffic. Bus drop offs will enable student access to both New Fairfield High School and New Fairfield Middle School.

#### Sidewalks

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The new site design for New Fairfield High School will include accessible sidewalks in the parking lots and bituminous paths to the athletic fields and existing bleachers.

### **Landscaping**

The landscaping design concept at the New Fairfield High School will be based on the requirements of the planning and zoning requirements with a maximized use of indigenous plant materials.

### **Recreational Use**

New Fairfield High School is a true community facility typical to most 21st century learning centers. The athletic field are utilized primarily by the school for physical education and school athletic events. The fields are also used after hours and weekends by the parks and recreation department for town wide recreational teams. In all cases the school use has priority over any other groups or organization.

### **Playgrounds**

New Fairfield High School has existing athletic fields and practice fields. The new school project will displace two multipurpose fields which will be rebuilt on the school site adjacent to existing parking.

### **Outdoor Athletic Facilities**

The new High School is being built on the existing site where two all-purpose practice fields are located. The two field will be relocated to an open area of the existing site adjacent site. No new outdoor or support structures will be part of the project.

### **Instructional Use of the Site**

New Fairfield High School will be constructed on an existing 145.5 Acre site that will result in a district wide campus setting. There are wetlands identified on the site and the since department incorporates analysis of plant and animal life into its curriculum.

### **Equipment**

No athletic equipment is being purchased under this project.

### **Ecological Requirements**

New Fairfield High School will be constructed on an existing 145.5 Acre site that will result in a campus setting. No new development is being proposed in the wetlands or the wetland buffers.



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## Section X: Priority List & Construction Bonus Requests

The existing New Fairfield High School facility was constructed in 1972 with limited program space renovations in the past decade. The facility houses grades 9 through 12 in a three-story structure that is connected to the middle school. The existing building is a steel and concrete structure with tilt up panels for the exterior with very little insulation in the walls and there is no sprinkler system. The roof is old and is in need for replacement. As the building is built into a slope there are sections that do not have natural light. Due to the significant concerns with the building structure, MEP systems, natural light, acoustics and life safety codes and accessibility, it has been concluded that the building should not be renovated. Furthermore, a forensic report on the original construction indicates that renovations and/or reconfiguration of the building will require significant structural modifications. There are numerous code and ADA violations that must be addressed, and the Civil Rights Compliance office has cited the school for accessibility violations. Based on hazmat testing there is asbestos and assumed PCB's present in the building that must be abated. See existing conditions survey for further details.

The recent NEASC report has placed the school on warning based on the inability of the facilities to support the educational programs. The Board of Education has developed educational specification for the high school program and the design team has reviewed reconfiguring the existing facility to meet the program goals. In evaluating the complexity of the renovations that would be required in the existing facility, the severe disruption that would be caused during a construction project and the health and safety concerns, it is the opinion of the design team and the educators that a new building would best address the needs.

The current site has limited parking, and vehicular traffic circulation is a significant concern. The existing building is extremely inefficient and oversized for the decreasing enrollment. A new facility will result in a right sized structure that is capable of supporting 21<sup>st</sup> Century teaching and learning.

Based on the condition of the existing facility, which include life safety, energy efficiency, hazmat, environmental comfort, limited natural light and spaces that limit the delivery of 21<sup>st</sup> century learning, the project should be assigned a Priority "A" status approval. Additionally, in order to accommodate high performance building systems, space standard consideration to accommodate a heating, ventilation or air conditioning systems is requested.



## Section XI: Community Uses

New Fairfield High School is a true community facility typical to most 21st century learning centers. As one evaluates the use of the public zone of the building although education is the primary use, community events in the gymnasium, commons, athletic field and auditorium are extensive. The new facility will be designed to accommodate educational use during the school hours. There will be no non-student activities during the school day. However, it is imperative that the planning and development of the New Fairfield High School project to take into consideration how the community will use the facility after school hours.

Planning concepts for after hour community use should include, but not be limited to, the following:

- The new gymnasium and auditorium spaces must facilitate the movement from the parking areas during educational and community events, providing direct access from the parking areas.
- A large gathering area must serve as pre-function space for users prior to and exiting a sports or theater event.
- The theater and support functions must be available for community groups without compromising the security of the overall facility.