

FINAL

Approved by

Dale Mitchell, Principal



STERLING AVIATION HIGH SCHOOL

November 18, 2014





CONSTRUCTION AND FACILITY SERVICES FACILITIES PLANNING

Customer Focused Always Responsive 3200 Center Street • Houston, TX 77007-5909



HOUSTON INDEPENDENT SCHOOL DISTRICT



HISD EDUCATIONAL SPECIFICATIONS



STERLING HIGH SCHOOL

SEPTEMBER 16, 2013







CONSTRUCTION AND FACILITY SERVICES FACILITIES PLANNING

Customer Focused Always Responsive 3200 Center Street • Houston, TX 77007-5909



STERLING HIGH SCHOOL (DRAFT)



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Guiding Principles articulate a school's vision, values, hopes and ideals to the design team. Guiding Principles will be used to "test" the decisions that are made throughout the design process, since every element of the building must be created to support the school's vision and values.

Sterling High School's Guiding Principles:

Sterling High School promotes:

An Environment of Success –

Every student is empowered with the skills and knowledge needed for college and career readiness. Physical space for both instruction and practice mimics real-life, professional settings.

Collaboration -

All spaces encourage community (teachers/students, students/students, teacher/teachers, etc.) to work collaboratively to facilitate a culture of high expectations.

Community Involvement –

Sterling High School is more than just a building for students. Its physical structure and open concepts offer opportunity and availability to the greater South Houston community.

Safety –

Sterling will have an open visible environment with a logical flow.

A Culture of Success and Achievement -

We are a highly structured, focused, and accountable school whose culture drives student achievement. Our focus is on the complete development of young adults by esteeming the values of Scholarship, Ownership, Ambition, Respect, and Leadership.

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Overview:

College and career readiness is a key priority for HISD and by working closely with college partners and area businesses the students are prepared for post-secondary success. They participate in rigorous core academic courses as well as specialized courses in career-focused areas that integrate learning and work world experiences. The 2012 bond program is grounded by the promise to provide 21st century learning environments for our students.

This Educational Specification evolved through a collaborative process with each school and its Project Advisory Team (PAT). It was developed by exploring program requirements of High Schools with consideration for extensive flexibility to address multiple approaches to the delivery of education with evolving pedagogies. Since new and renovated buildings are expected to serve multiple generations of learners, spaces must be planned to respond to changing program delivery strategies over time without "bricks and mortar" changes to the building. This educational specification has been prepared to provide spaces in a variety of sizes, interior zoning to enhance after-hours use, and a rich infrastructure to support current and emerging approaches to educational program delivery.

Sterling High School has an Aviation magnet program that differentiates Sterling from other high schools in the district. The PAT team has requested an aviation theme be incorporated throughout the school. However, this focus should be tempered with the understanding the curriculum at the school could change in the future.

Educational Program Delivery:

There is an emerging body of research that links student performance with school facilities. One leading study makes the following points:

- Design components and features have a measurable influence on student learning. Deficiencies in thermal comfort, acoustics, and lighting are particularly significant.
- Overcrowding has a negative impact on learning.
- There is a strong positive relationship between overall building condition and student achievement.
- Substandard facilities have a negative impact on teacher effectiveness and performance and consequently impact student performance. (Earthman 2002)

One of the important concepts in education is the philosophy of differentiation. Differentiation calls for students to be taught in the way that is most likely to be effective considering their individual readiness and styles of learning. Standards are "what" is taught. Differentiation can be "how" standards are taught. Howard Gardner's theories of multiple intelligences have helped us understand the variety of ways in which we all learn. They are illustrated in the table on the following page.



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Eight Ways of Learning:

Children who are highly:	Think	Love	Need
Linguistic	in words	reading, writing, telling stories, playing word games	books, tapes, writing tools, paper, diaries, dialogue, discussion, debate, stories
Logical- Mathematical	by reasoning	experimenting, questioning, figuring out logical puzzles, calculating	materials to experiment with, science materials, manipulatives, trips to the planetarium and science museum
Spatial	in images and pictures	designing, drawing, visualizing, doodling	art, LEGOs, video, movies, slides, imagination games, mazes, puzzles, illustrated books, trips to art museums
Bodily- Kinesthetic	through somatic sensations	dancing, running, jumping, building, touching, gesturing	role play, drama, movement, things to build, sports and physical games, tactile experiences, hands-on learning
Musical	via rhythms and melodies	singing, whistling, humming, tapping feet and hands, listening	sing-along time, trips to concerts, music playing at home and school, musical instruments
Interpersonal	by bouncing ideas off other people	leading, organizing, relating, manipulating, mediating, partying	friends, group games, social gatherings, community events, clubs, mentors/apprenticeships
Intrapersonal	in relation to their needs, feelings, and goals	setting goals, meditating, dreaming, planning, reflecting	secret places, time alone, self-paced projects, choices
Naturalist	through nature and natural forms	playing with pets, gardening, investigating nature, raising animals, caring for planet earth	access to nature, opportunities for interacting with animals, tools for investigating nature (e.g., magnifying glass, binoculars)

(Armstrong, Thomas. Multiple Intelligences in the Classroom, 2nd Edition. Chapter 3. Describing Intelligences in Students. 2000.)

What this tells us about the school building is that the facility must be planned to provide a variety of experiences to insure optimal learning opportunities for each student. Space and furnishings should be flexible to accommodate whole group instruction as well as individual and group space. Connections, where possible, to the outdoors are important for active learning and science projects.



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Technology

Technology is an essential tool for learning in today's schools. Computers are used for instruction in the core subjects as well as word processing, data analysis, and presentation development. Computers and projection devices are found in classrooms as well as labs. HISD has embarked upon a program that will lead to each student having their own laptop or tablet. All spaces in the facility must be designed to support this 1:1 initiative.

Flexibility

21st century schools should be organized to have the flexibility to embrace multiple program delivery systems. This may include: self-contained learning centers, team teaching, thematic instruction and/or departmental organization. The buildings must be flexible enough that from year to year the users of the building have the ability to alter the instructional methodology. Additionally, the learning environments must also be flexible enough that from period to period they can appeal to each learner.

Flexibility is addressed in this educational program through providing:

- Spaces in a variety of sizes that can be configured and re-configured in multiple layouts.
- Learning Centers with similar configurations and with as little fixed cabinetry as possible to allow for many configurations.
- Spaces such as the Learning Commons, Dining Commons, and Gymnasium that will be located to allow for after-hours access without disturbing the entire building.
- Finishes on the floors, walls, and, ceilings, that are easy to clean and allow for maximum personalization of the space.
- Furnishings that are flexible, durable, and easy to move, so the spaces can respond to a dynamic educational program.

Organization

At the High School level, spaces are increasingly organized in houses, schools-withinschools or small learning communities. Essentially these concepts are similar. They all include learning centers and teacher support areas located together with Special Education, Career and Technical Education (CTE) and Administration, creating personalized, smaller Neighborhoods within the larger facility.

Learning Centers

The focus for all disciplines with this Ed Spec is to create flexible and dynamic learning centers that support 21st century learning for whole group, small group, and individuals. Addressing the needs of all learners requires that learning be experiential and hands-on.

Each learning space should have as much moveable (rather than fixed) furniture and equipment as possible. Tables, chairs, moveable storage, and wireless technology, will support flexible configuration during the current school day and year and many different configurations as educational program delivery evolves over time.

Science Learning Centers/Wet Labs will have perimeter counters and sinks with tables that can be configured for individual activities, small group clusters, lab stations or



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moved back to the edges of the room for experimentation that requires free movement. Each Science Learning Center/Wet Lab will contain a sink for every 4 students and a demonstration table for teacher demonstration of experiments.

A variety of spaces have been included to support non-core academic learning. Learning Centers for visual and performing arts, world language, CTE, and physical education will be configured to provide maximum flexibility through the use of moveable furnishing, fixtures, and equipment with acoustic control, plumbing, etc. to support the intended primary user.

Program Area Overview

Administration/Guidance

Immediately upon entry, visitors will be greeted in the administration "welcome area." Offices may include the Principal, support staff, guidance and health services. These spaces should be located in a centralized area at the main entrance of the school to provide a controlled access point during the school day.

The front entry lobby should be welcoming and inviting for students, staff, and visitors. However, to address security concerns, a security vestibule will be provided. In order to gain access to the facility, a visitor will pass through the vestibule directly into the main administrative reception area before being allowed into the school.

Neighborhoods

The basic organizational unit for this school will be the neighborhood, consisting of general-purpose learning centers, teachers' work center, small group rooms, extended teaching area, and science learning centers/wet labs. The neighborhood concept accommodates a variety of instructional strategies and student-grouping approaches. This concept also provides a learning environment that is characterized by flexibility, a sense of community for the students and teachers working and a safe/well-supervised environment. Teachers will have the option and flexibility within a cluster to create and organize learning environments that work for students and their learning styles.

The neighborhoods can be organized based on individual grade levels, multi-grade groupings, or departmental groupings. The learning communities should be located near the Media Center and away from noisy spaces such as the Gymnasium and Cafeteria. Special attention should be given to accessibility of all educational and support spaces and an integrated learning program.

Learning Commons

The Learning Commons serves a dual role. Its traditional role is a library and a place to conduct research. Its new role is to serve as a technology and information base center. In this new role, it houses a transparent voice/video/data network, that runs throughout the entire building. This area is changing from a "depository of books" to a "technology information center." It is not projected that the library functions will discontinue; rather digital technology will enhance voice, video, and data communications within the school, among district facilities, and with distance learning resources. To that end, a portion of the Learning Commons will be included in each Neighborhood as an Extended Learning Area for electronic research, project collaboration, etc.



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Visual Arts

The Visual Arts Learning Center will be configured to support both 2-dimensional activities and 3-dimensional creations. Space will be provided both within the classroom and in a connecting storage room for access to materials and storage of student work-in-progress. Configuration will provide as much display space as possible to showcase student work within the room and in display cases visible from the corridor. The connecting kiln room will provide an area to store work waiting to be fired as well as safe control and ventilation for the kiln.

Performing Arts

Design, flexibility, and acoustics should be especially considered when planning these spaces. The Instrumental Music/Vocal Music and Performance square footage will be grouped together. Storage areas, practice rooms, and teacher areas will connect with the larger space and be shared when feasible.

Physical Education

A variety of indoor and outdoor areas are required to support school physical education programs, Outdoor physical education teaching areas should be located near the indoor gymnasium. Physical education facilities should be designed and constructed with a focus on community use during non-school hours, since there is a high demand for both indoor and outdoor facilities. This will be accomplished by locating an entrance near the gym with lockable doors to control access to the rest of the building.

Food Services

The Dining Commons is planned as a flexible room that can accommodate student dining, meetings, and other events. The serving area will be designed as a food court. Movement among the various activities, i.e. hand washing queuing for serving, and exiting, will be planned for ease of movement.

Building Support - Corridors and Common Spaces

Extensive display areas should be provided for two-dimensional and three-dimensional student work and awards. Finishes should be durable and easy to maintain. The scale of all spaces must be student friendly. Colors, artificial lighting, and natural day-lighting should be artfully managed to create an environment that communicates that school is a very special place.

Technology

The facility should contain the latest in technology and be wired and wireless for voice, video and data throughout the building. The program design is intended to bring information to each student, and computer technology will be distributed in every classroom. HISD is in the early stages of an initiative which when completed will provide each learner with a laptop or tablet. It is intended therefore that access to technology will be seamless and pervasive throughout the building.

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Accessibility

The entire facility must be universally accessible. This should be accomplished through judicious use of ramping and elevators where necessary, sufficient internal clearances for circulation, convenient bus/van loading and unloading, and nearby handicapped parking spaces. All elements of the Americans with Disabilities Act must be complied with, including way-finding and signage, appropriate use of textures, etc.

Aesthetics

Constructing the indoor and outdoor structures and spaces where students go to school today must meet many challenges and expectations. Interior and exterior aesthetics should reflect the high academic aspirations of the school. It should have community visibility and presence.

Creating a community landmark will establish a recognizable identity that will instill pride in students and community and also express the value that the community has for its children. Areas within the school should be developed to have clear organization and internal identity.

The facility should be inviting to students, making them feel that the space is special, and therefore make it clear that each person is special. Aesthetics that affirm the value of the individual must be emphasized, with spaces for the admiration of the accomplishments of self and others. The school should support academic success, high self-esteem, social interaction, and physical safety. The facility layout should be especially easy to comprehend and reflect how spaces relate to one another. Easily supervised areas should be provided for positive socialization among students and with teachers.

Flexibility

Facilities should be constructed in a manner in which change and flexibility is the norm, not the exception. Building materials, systems, and furniture should be selected to support these concepts as well.

Indoor and Outdoor Learning Environments

By rethinking all spaces, better use of the facilities and site can occur. One way to accomplish this is to use windows and outside areas to make rooms "feel" larger as well as utilizing outdoor areas for teaching environments. All learning centers must have windows to the exterior.

Common and shared use areas should be considered to provide spaces for positive interaction and orientation within the school. All learning environments should be developed to foster a sense of belonging and pride. The use of the building system/design as an actual teaching model and example of technology and environmentally conscious design should be considered. Creativity and functionality should work hand in hand.





CAPACITY MODEL & SPACE REQUIREMENTS



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HISD Sterling High School Capacity Model					
	# Teaching Stations	Students per Teaching Station	Building Capacity	% Utilization	Program Capacity
Core Academic Learning Center (English, Math,	37	28	1036	85%	881
Social Studies, World Language, ESOL, Health)					
Science WetLab	10	28	280	85%	238
Special Education Learning Center A (Structured Learning)	2	18	36	85%	31
Special Education Learning Center B (Life Skills)	2	10	20	85%	17
Special Education Learning Center C (Behavioral Adjustment Class)	1	8	8	85%	7
CTE - Aviation - Airframe					
Aviation Hangar	1	28	28	85%	24
Welding	1	28	28	85%	24
Aviation Design/Engineering	1	28	28	85%	24
CTE - Aviation - Power Plant					
Aviation Learning Center (Electrical/HVAC)	1	28	28	85%	24
Aviation Learning Center (Engines)	2	28	56	85%	24
CTE - Aviation - Operations					
Futures Academy/Logistics	1	28	28	85%	24
Aviation Learning Center (Simulator Room)	1	28	28	85%	24
CTE - Auto Technology	1	28	28	85%	24
JROTC (Navy)	2	28	56	85%	48
Visual Arts Wet Lab	2	28	56	85%	48
Instrumental Music Learning Center (Band)	1	28	28	85%	24
Drama / Theatre / Black Box Learning Center	1	28	28	85%	24
Dance Learning Center	1	28	28	85%	24
Vocal Learning Center	1	28	28	85%	24
Gymnasium (Main Gymnasium counts as 2 teaching stations)	2	32	64	85%	54
Auxiliary Gymnasium	1	32	32	85%	27
Total	72		1,952		1,635



HISD Sterling High School Space Requirements Summary				
	Teaching Stations	Total		
Core Academic Area	52	69,686		
Space Allocation Specific to Program	9	22,400		
Visual Arts	2	2,730		
Performing Arts	3	18,565		
Physical Education/Athletics	4	35,537		
Welcome Center/Administration Space Requirements		10,190		
Junior ROTC	2	3,120		
Food Service Space Requirements		13,215		
Custodial/Maintenance Space Requirements		1,475		
Total Net	72	176,918		
Building Support	38%	67,229		
Total Gross		244,147		



Neighborhoods	Teaching Station(s)	Quantity	Square Feet	Net Area
Learning Center	37	37	850	31,450
Science Learning Center/Wet Lab	10	10	1,650	16,500
Wet Lab Storage		5	150	750
Flex Lab (Grad Lab)		1	950	950
Learning Commons/Information Center				
Learning Commons-Reading/Instructional Area		1	2,297	2,297
Learning Commons - Circulation		1	3,445	3,445
Learning Commons/Information Center Ancillary & Storage		1	1,914	1,914
Lecture Hall (150 seats)	0	2	2,000	4,000
Stage/Lectern		2	400	800
Control Room		2	150	300
Storage		2	150	300
Special Education - Structured Learning Center	2	2	850	1,700
Special Education - Life Skills Learning Center	2	2	900	1,800
Kitchen/Restroom/Changing Room/Storage		2	450	900
Special Education - Behavioral Adjustment Learning Center	1	1	850	850
Kitchen/Restroom/Changing Room/Storage		1	450	450
Small Group Room		4	120	480
Storage		4	200	800
Total	52			69,686





Career and Technical Education - Transportation, Distribution, and Logistics	Teaching Station(s)	Quantity	Square Feet	Net Area
CTE - Aviation Airframe				
Aviation Hangar	1	1	10,000	10,000
Aviation Welding	1	1	1,400	1,400
Storage		1	200	200
Aviation Design/Engineering Learning Center	1	1	1,200	1,200
Aviation Design Storage		1	200	200
CTE - Aviation Power Plant				
Aviation Learning Center (HVAC/Electrical)	1	1	1,400	1,400
Storage		1	200	200
Aviation Learning Center (Engines)	1	1	1,400	1,400
Storage		1	200	200
CTE - Aviation Operations				
Futures Academy/Logistics	2	2	1,400	2,800
Storage		1	200	200
Aviation Learning Center (Simulator Room)	1	1	1,400	1,400
Storage		1	200	200
CTE - Auto Technology	1	1	1,400	1,400
Storage		1	200	200
Total	9			22,400

Visual Arts	Teaching Station(s)	Quantity	Square Feet	Net Area
Visual Arts Wet Lab	2	2	1,200	2,400
Kiln Room		1	80	80
Storage Room		1	250	250
Tota	2			2,730



Performing Arts	Teaching Station(s)	Quantity	Square Feet	Net Area
Instrumental Music Learning Center (Band)	1	1	1,800	1,800
Instrument Storage		1	800	800
Uniform/General Storage		1	400	400
Music Storage/Library		1	150	150
Practice Room		2	50	100
Office, Band Director		1	120	120
Theatre/Black Box Learning Center	1	1	1,600	1,600
Black Box Control Room		1	100	100
Costume/General Storage		1	400	400
Prop Storage/Script Library		1	200	200
Practice Room		2	50	100
Office, Theater Director		1	120	120
Shared Workroom		1	250	250
Shared Ensemble Room		1	600	600
Auditorium				
Auditorium, Seating Area for 500		1	5,100	5,100
Auditorium, Control Room		1	175	175
Auditorium, Stage		1	2,000	2,000
Auditorium, Lobby (Share with Gym?)		1	1,200	1,200
Auditorium, Tickets (Share with Gym?)		1	75	75
Auditorium, Concessions (Share with Gym?)		1	225	225
Auditorium, Set Construction		1	400	400
Auditorium, Prop/ Costume Storage		2	275	550
Auditorium, Dressing Room		2	250	500
Auditorium, Dressing Room - Restroom		2	50	100
Vocal Music Learning Center	1	1	1,200	1,200
Uniform/General Storage		1	200	200
Music Storage/Library		1	100	100
Total	3			18,565





Physical Education/Athletics	Teaching Station(s)	Quantity	Square Feet	Net Area
PE/Athletics Lobby (Share with Performing Arts?)		1	1,200	1,200
Gymnasium (seating for average program capacity of school)	2	1	13,822	13,822
Auxiliary Gymnasium (seating for 1/4 of program capacity of school)	1	1	8,915	8,915
Weight Room		1	800	800
Boys' Athletic Locker Room		1	1,200	1,200
Girls' Athletic Locker Room		1	800	800
Boys'/Girls' PE Locker Room		2	800	1,600
Toilets/Showers		2	500	1,000
Adult Toilet/Shower/Locker		2	125	250
Athletic Director (Office C)		1	180	180
Office (shared)		2	300	600
Training Room		1	400	400
Laundry		1	150	150
PE Equipment Storage		1	500	500
Athletic Equipment Storage		1	1,000	1,000
Gymnasium, Tickets (Share with Performing Arts?)		1	75	75
Gymnasium, Concessions (Share with Performing Arts?)		1	225	225
Drill Team/Dance Room				
Dance Room	1	1	1,400	1,400
Dance - Prop Storage		1	400	400
Dance - General Storage		1	150	150
Office, Dance Coach		1	120	120
Dance Locker Room		1	600	600
Dance - Toilet Area		1	150	150
Total	4			35,537



Junior ROTC (Navy)	Teaching Station(s)	Quantity	Square Feet	Net Area
JROTC Learning Center (Large)	1	1	1,150	1,150
JROTC Learning Center (Small)	1	1	850	850
JROTC Arms/Weapons Storage		1	30	30
JROTC Uniform/Drill Team/Color Guard Storage		1	320	320
JROTC Chair/Table/Target Storage		1	400	400
JROTC Small Group Collaboration		1	120	120
JROTC Instructors Center		1	150	150
Adult Toilet/Shower/Locker		1	100	100
Total	2			3,120





Administration/Guidance	Teaching Station	Qty	SF	Net Area
Administration				
Reception, Administration		1	500	500
Office A		3	100	300
Office C (Principal)		1	250	250
Principal's Restroom		1	50	50
Office B (AP)		2	125	250
AP Reception/Waiting		2	100	200
Conference Room, Main		1	250	250
Conference Room, Small		1	150	150
Storage		1	200	200
Health Clinic		1	500	500
Reception/Waiting		1	75	75
Office A		1	100	100
Restroom		1	65	65
Guidance/Student Services				
Reception, Guidance		1	200	200
Office B (Attendance, Registrar, Counselor)		5	125	625
Conference Room, Small		1	150	150
Records/File Room		1	200	200
Administration/Guidance Workroom/Break Room		1	300	300
Shared				
Professional Development/Data Center		1	300	300
Office B (Itinerant)		3	125	375
Teacher Work Center		4	1,000	4,000
Multi-use/Community Room		1	900	900
Storage		1	200	200
New Mother's Room		1	50	50
Total	0			10,190



Food Service	Teaching Station(s)	Quantity	Square Feet	Net Area
Kitchen Preparation Area		1	1,450	1,450
Serving Area		1	1,900	1,900
Dry Storage		1	325	325
Freezer		1	275	275
Cooler		1	275	275
Kitchen Manager's Office		1	150	150
Laundry/Custodial Area		1	75	75
Locker Room/Restroom		1	200	200
Student Dining Commons (seating for 1/3 of students at one time plus 200 for dining)		1	8,565	8,565
Total	0			13,215

Custodial/Maintenance	Teaching Station(s)	Quantity	Square Feet	Net Area
Receiving Entry		1	150	150
Office, Plant Engineer		1	75	75
Custodial/Maintenance Storage		1	300	300
Supply Storage		1	300	300
IT Support		1	150	150
Custodial Closet		5	100	500
Total	0			1,475

IT Support	Teaching Station(s)	Quantity	Square Feet	Net Area
Visual Arts Wet Lab	0	1	850	850
Kiln Room		1	850	850
Total Net				1,700
Building Support			38%	646
Total Gross				2,346







SITE



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Site

Space Requirements

Overview

Attractive, functional buildings placed on adequate grounds in an appropriately landscaped environment help to create in students an appreciation for schools and in adults an added civic interest and respect for the dignity of education. Site planning is based on a thorough analysis of the site, determination of human needs, determination of requirements for other uses, sustainability and provision for transportation, communications and utilities. Site planning is the first opportunity for incorporating the four principles of CPTED:

- Natural Surveillance
- Natural Access Control
- Territorial Reinforcement
- Maintenance

In many communities, school facilities are frequently used for purposes other than those directly related to the learning activities of students; such as adult education, public assembly, recreation, election polling places, meetings that require food services, etc. There is a trend toward increasing this multi-use function of school facilities. Some schools are now being built as a part of a larger complex of community service facilities: recreation grounds and parks, health and social services centers, libraries and cultural centers.

On-site school traffic includes: buses, commercial vans, cars and bicycles transporting students, parents, staff and visitors to and from school, car and bus parking, service and delivery vehicles, and pedestrians entering, exiting and accessing site facilities. This traffic must be managed safely and efficiently so that it supports the school's mission and traffic management does not become a burden to the staff.

Outdoor recreational facilities will accommodate the physical education program, field exercises in academic programs such as science and art, unstructured play and social events such as picnics and carnivals. Group sizes will range from school wide events such as field days, to whole class grouping, small groups and individuals.

To manage transitional capacity the school system has elected to utilize temporary classroom units (T-Buildings). In planning new school construction and in site planning on existing campuses, space should be identified to site six of these units and accommodations made for their future utility hookups.

ON DEAL STREET

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Design Considerations

- The outdoor playing fields shall accommodate the physical education program, athletics, and outdoor learning activities.
- As sites are identified, the opportunity for cooperative efforts such as buying adjacent land and master planning together with community groups should be explored.
- In developing a Campus Master Plan, consideration should be given to:
 - Future enhancements such as amphitheaters, picnic tables, nature trails, gardens for vegetables, wildflowers, and butterflies; wildlife habitats, sundials, etc.
 - Fire lane with access to all areas of the campus with special attention paid to allowing trucks to access the cafeteria, bus and parent drop off areas as these are the usual locations of fires. However, fire truck access to buildings must not be compromised during drop-off and pick-up times. Therefore, provide a 20' access way at critical points so the parents' vehicle queue will not interfere with emergency access to the building.
 - Security of life and property when designing the exterior lighting system.
 Consider placement of utility stub outs for lights which may be installed by community user groups.
 - Ways in which the community may use and upgrade the facilities. For schools these improvements may include stub outs for athletic field lighting (include baseball and softball fields). For schools/parks these improvements may include public restrooms/concession area/storage, spectator control access/storage, score boards & warm-up areas.
- Consider context and surrounding community circulation when planning site.
- Vehicular and pedestrian traffic should be separated.
- Site Master Plan should include covered walkways to bus and/or car loading/unloading areas.
- Coordinate traffic pattern so that students will not have to cross driveways or parking areas in route to outdoor play fields.
- Separate vehicular traffic as much as site and local governing bodies will allow.
- Allow for separate entrances/exits for bus traffic, car queuing and car parking. If separate roadway accesses are not possible separate traffic as soon as feasible on-site.
- The daily school schedule for arrival and dismissal, and occasional events, including large group assemblies and special events should be considered in the design of traffic patterns.
- Make all outdoor facilities ADA accessible.
- Allow for sufficient buffer space for safety when siting outdoor playing fields.
 Preservation of the natural environment and outdoor spaces for science and arts is desirable.
- Consider making provisions for shade and potential assembly areas.
- Design to allow for future upgrades, if possible.
- Consider safety and social zones of activity.
- Parking lots should be distant from foul ball territory.
- Screen noise producing areas from instructional areas.



STERLING HIGH SCHOOL (DRAFT)

- Campus Master Plan should indicate fire lane with access to all areas of the campus. This shall not be a paved road. It is critical that the school building not be encircled by vehicle circulation.
- Determine which development standards will be required, as these may have different requirements.
- In planning fields include fencing such as backstops, outfield, dugouts, temporary fencing with the thought of providing multiple use of athletic fields.
- See Design Guidelines concerning irrigation.
- Follow standards published by National Federation of State High School Associates for guide to proper athletic field orientation, sizes and markings: National Federation of State High School Associations

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STERLING HIGH SCHOOL (DRAFT)

Site

Future T-Buildings Area

USERS:	ACTIVITIES:
StudentsFaculty/staff	Generally square area to accommodate six (6) temporary buildings.

DESIGN CONSIDERATIONS:

- When identifying the location, consider proximity of group toilets and other core facilities such as Learning Commons/Information Center, Food Service, etc.
- When identifying the location, consider access to the area for transporting the buildings to and from the site.
- Students moving to and from permanent buildings should not cross vehicular traffic.
- Do not use areas programmed for other uses for temporary buildings.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Provide underground conduit and stub ups from the nearest power panel in the main building for future electrical connections. This panel should be provided with the required extra capacity.
- Provide underground conduit and stub ups for future data connections.

Owner Furnished - Contractor Installed

None

Owner Furnished - Owner Installed

None



STERLING HIGH SCHOOL (DRAFT)

Site

Service Court/Access Drive/Dumpster

USERS:	ACTIVITIES:	
Maintenance StaffCustodial StaffFood Service Staff	 School deliveries Waste disposal bins (dumpsters) Meeting with parents, students and other visitors Placing phone calls 	
DESIGN CONSIDERATIONS:		
 Locate in close proximity to Receiving Entry and Food Service Area should be sited or shielded so that a visual screen is created Consider turning radii and path of delivery vehicles Provide drains at waste disposal bins FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished – Contractor Installed		
Screening		
Owner Furnished – Contractor Installed		
• None		
Owner Furnished – Owner Installed		
3 Waste Bins (dumpsters)1 Recycling Bin (dumpster)		



STERLING HIGH SCHOOL (DRAFT)

Site

Bus Loop/Parking/Staging

USERS:	ACTIVITIES:
StaffTeachersStudentsParents	Entry, exit and staging of buses

DESIGN CONSIDERATIONS:

- The designated loading zone shall provide a minimum of 60 inches wide by 240 inches long clear floor area adjacent to the vehicle pull-up space with the long dimension parallel to the vehicle direction of travel.
- Locate in close proximity to the main entrance, preferably near large assembly area within the school building and as a second priority, outdoor play area.
- Provide a convenient, covered, accessible loading area for buses that is closer to the school than the car loading area (with the exception of special needs children).

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

• None

Owner Furnished – Contractor Installed

None

Owner Furnished - Owner Installed

None



STERLING HIGH SCHOOL (DRAFT)

Site

Car Parking

USERS:	ACTIVITIES:
Parents	Parking for School Faculty and Staff plus 10%
Students (High School)	Parking for Guests – provide spaces equal to 1% of the student
Community members	capacity or 10 spaces whichever is greater.
Faculty/Staff	Student parking

DESIGN CONSIDERATIONS:

- Separate car parking from bus traffic and car drop-off/pickup
- Car drop-off/pickup should not interfere with traffic flow to car parking
- Locate staff/visitor parking at the front of the building to promote and identify the front entrance as well as for visual surveillance from Administration.
- Provide convenient preferred parking spaces for low emission vehicles and those with special needs however, all other parking spaces should be located far enough away from the school that it is clear that priority is given to walkers, bikers, playgrounds and open space
- Locate 15 of the staff spaces near the Service Court for use by the Maintenance, Custodial and Food Service Staff

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Consecutively numbered spaces
- "Visitor" spaces
- 6 "Reserved" spaces

Owner Furnished - Contractor Installed

None

Owner Furnished - Owner Installed

None





STERLING HIGH SCHOOL (DRAFT)

Site

None

Car Staging/Access

	I	
USERS:	ACTIVITIES:	
Parents/Students	Safely discharge and pick-up students from private vehicles	
DESIGN CONSIDERATIONS:		
 The designated loading zone shall provide a minimum of 60 inches wide by 240 inches long clear floor area adjacent to the vehicle pull-up space with the long dimension parallel to the vehicle direction of travel. Locate near the main entrance but so as not to interfere with bus loading. 		
FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished – Contractor Installed		
• None		
Owner Furnished – Contractor Installed		
• None		
Owner Furnished – Owner Installed		

STERLING HIGH SCHOOL (DRAFT)

Site

None

Pedestrian Circulation

USERS:	ACTIVITIES:	
 Staff/Faculty Parents Students Community DESIGN CONSIDERATIONS:	Safe and secure passage from parking/access areas to the school's indoor facilities (including T-Buildings if any) and to the outdoor facilities including all athletic facilities	
Provide permanent walkways w	here anticipated foot traffic would destroy vegetation or where required	
for ADA compliant access		
Provide minimum 10'-0" wide walkways to and at Bus Staging		
Provide minimum 6'-0" wide walkways to and at Car Staging		
FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished – Contractor Installed		
• None		
Owner Furnished – Contractor Installed		
• None		
Owner Furnished – Owner Inst	talled	



STERLING HIGH SCHOOL (DRAFT)

Site

Baseball

USERS:	ACTIVITIES:
FacultyAthletic TeamsCommunity	Competing (Athletics)Practicing (Athletics)

DESIGN CONSIDERATIONS:

- Provide 6'-0" high perimeter fencing and 12'-0" high backstop fencing with 6'-0" foul ball screen set at 45 degrees on top
- Provide fencing for the "dugout"
- Include in planning future bleachers, adjacency to football/track concession stand, ticket booth, restrooms

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- · Permanently installed apparatus/infrastructure
- Electrical stub outs from main facility for scoreboards
- Irrigation system for field

Owner Furnished – Contractor Installed

None

Owner Furnished - Owner Installed

None



STERLING HIGH SCHOOL (DRAFT)



Softball

USERS:	ACTIVITIES:
Students (PE)FacultyAthletic TeamsCommunity	 Learning the fundamentals of softball (PE) Competing Practicing

DESIGN CONSIDERATIONS:

- Locate for ease of access for PE classes
- Provide playing field for fast-pitched play
- Provide 6'-0" high perimeter fencing and 12'-0" high backstop fencing with 6'-0" foul ball screen set at 45 degrees on top
- Provide fencing for the "dugout"
- Include in site plan space for future bleachers adjacent to football/track concession stand, ticket booth, restrooms
- Irrigation system for outfield

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Permanently installed apparatus/infrastructure
- Electrical stub outs from main facility for scoreboard

Owner Furnished - Contractor Installed

None

Owner Furnished – Owner Installed

None





STERLING HIGH SCHOOL (DRAFT)

Site

Playing/Practice Fields

 Students (PE) Faculty Athletic Teams PE Classes Athletic practices (Football, Soccer, etc.) 	USERS:	ACTIVITIES:	
Community	Faculty		

DESIGN CONSIDERATIONS:

- Provide minimum of 2 fields
- Each field to be approximately 160' x 360'
- Fields should be relatively level but sloped to drain without need of underground drainage
- Locate for ease of access for PE classes

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

Irrigation system

Owner Furnished – Contractor Installed

None

Owner Furnished - Owner Installed

None



STERLING HIGH SCHOOL (DRAFT)



Basketball/JROTC

USERS:	ACTIVITIES:	
Students (PE)FacultyAthletic TeamsCommunity	 Learning the fundamentals of basketball Practicing Exercising 	

DESIGN CONSIDERATIONS:

- Provide 1 full basketball court on concrete surface with marking and 4 permanent goals
- Locate for ease of access for PE classes
- Locate on 100 x 100 JROTC drill pad

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- · Basketball court, markings and goal
- JROTC drill markings

Owner Furnished – Contractor Installed

• None

Owner Furnished – Owner Installed

None





STERLING HIGH SCHOOL (DRAFT)

Site

General

USERS:	ACTIVITIES:	
ParentsStudentsCommunity membersFaculty/staff	Access to school and its facilities	

DESIGN CONSIDERATIONS:

- All exterior signage, fencing, and railings should be included in design documents
- Site lighting
- Flagpole should be located near the main entrance with a paved walkway to it
- Bike racks should be located to promote their use
- Fixed landscape equipment (i.e. trash cans, seating benches etc.) should be included in design documents

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Marquee sign, directional and traffic Signage, fencing and railings
- Site lighting
- Flagpole
- Bike Racks

Owner Furnished – Contractor Installed

None

Owner Furnished – Owner Installed

Flags



NEIGHBORHOODS



HISD EDUCATIONAL SPECIFICATIONS STERLING HIGH SCHOOL

SEPTEMBER 16, 2013 CONSTRUCTION AND FACILITY SERVICES FACILITIES PLANNING



STERLING HIGH SCHOOL (DRAFT)

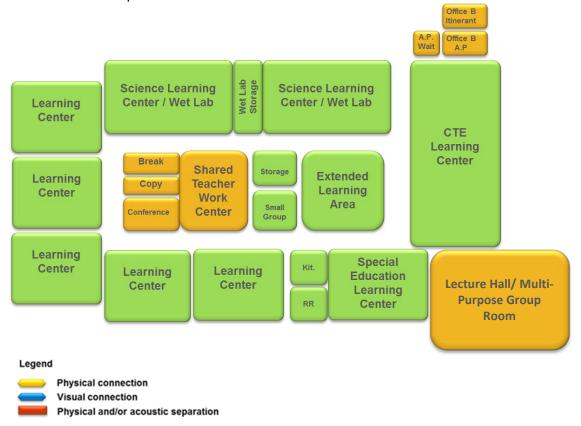
Neighborhoods

Overview:

Core academic requirements for all children are mandated by state and federal law. HISD's promise is to provide 21st Century learning environments, accordingly, the facilities shall:

- Meet the state and federal requirements
- Be safe and conducive to learning
- Create life-long learners
- Create an environment conducive to teacher retention
- Provide for flexibility of course offerings within core academic subject areas
- Accommodate interdisciplinary learning
- Accommodate multiple intelligences and varied learning styles
- Provide effective space for collaboration and increased communication
- Provide easy access to teaching resources for anytime, anywhere learning

Each neighborhood will include collaborative spaces for students and faculty, Core Academic Learning Centers, Science (or other flex) Lab space, and a CTE Learning Center. The neighborhoods will be arranged adjacent to common learning areas as well as Assistant Principal's offices.



The functional relationships illustrated are diagrammatic only. Further interpretation of these relationships shall be implemented by the Design Team.



STERLING HIGH SCHOOL (DRAFT)

Space Requirements

Neighborhoods	Teaching Station(s)	Quantity	Square Feet	Net Area
Learning Center	37	37	850	31,450
Science Learning Center/Wet Lab	10	10	1,650	16,500
Wet Lab Storage		5	150	750
Flex Lab (Grad Lab)		1	950	950
Learning Commons/Information Center				
Learning Commons-Reading/Instructional Area		1	2,297	2,297
Learning Commons - Circulation		1	3,445	3,445
Learning Commons/Information Center Anxillary & Storage		1	1,914	1,914
Lecture Hall (150 seats)	0	2	2,000	4,000
Stage/Lectern		2	400	800
Control Room		2	150	300
Storage		2	150	300
Special Education - Structured Learning Center	2	2	850	1,700
Special Education - Life Skills Learning Center	2	2	900	1,800
Kitchen/Restroom/Changing Room/Storage		2	450	900
Special Education - Behavioral Adjustment Learning Center	1	1	850	850
Kitchen/Restroom/Changing Room/Storage		1	450	450
Small Group Room		4	120	480
Storage		4	200	800
Total	52			69,686



STERLING HIGH SCHOOL (DRAFT)



Learning Center

USERS:	ACTIVITIES:		
Teachers	Mastering the core curriculum		
 24 - 28 Students 	Mastering 21st Century learning skills		
	Project-based learning		
	Technology - based instruction		
	Activities that stimulate inventive thinking, creativity and		
	imagination		
	Collaborative relationship building		
	Demonstrations		
	Working individually, in small groups and in large groups		

DESIGN CONSIDERATIONS:

Operable partitions are permitted in this area.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Blinds for windows
- Presentation Wall:
 - 1 4'x4' Tack Board
 - 1 − 8'x4' Marker Board
 - Tack Strips located 12" above marker/tack boards
 - 2 flag holders and map hooks
- Adjacent or Rear Wall:
 - 2 4'x4' Tack Boards (one on each side of 8'x4' Marker Board)
 - 1 − 8'x4' Marker Board

Owner Furnished – Contractor Installed

None

- Presentation Cart
- Teacher stool
- Student Area:
 - 28 Student tables
 - 28 Student chairs
 - 3 computer tables, 30"x60"
- 2 tall storage cabinets with adjustable shelving
- 3 bookcases (height may be dependent on window sill height), with adjustable shelving
- Electronic Whiteboard mounted on presentation wall adjacent to and at same height as marker board
- Clock



STERLING HIGH SCHOOL (DRAFT)

Neighborhoods

Science Learning Center/Wet Lab

USERS:	ACTIVITIES:	
Teacher Staff/Faculty Students	Lecture, labs, computer work Technology-based instruction Chemical, physical and biological experimentation Collaborative relationship building Working individually, in small groups, and in large groups Mastering 21st Century learning skills Project-based learning Technology-based instruction Activities that stimulate inventive thinking, creativity and imagination Collaborative relationship building Demonstrations	

DESIGN CONSIDERATIONS:

- · Emergency utility shut-off
- Power and Data in apron of casework
- One station in each lab to be handicapped accessible

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- Blinds for windows
- Presentation Wall: (all items at appropriate height for age group)
 - 1 4'x4' Tack Board
 - 1 − 8'x4' Marker Board
 - Tack Strips located 12" above marker/tack boards
 - 2 flag holders and map hooks
- Adjacent or Rear Wall:
 - 2 4'x4' Tack Boards (one on each side of 8'x4' Marker Board)
 - 1 8'x4' Marker Board
- Casework Side wall:
 - Sink cabinets and drawer/door cabinets
 - · Drying racks above sinks
 - Door/shelf cabinets above sinks
- Safety station(s) (number determined by code) including eyewash, body drench shower, fire blanket, fire extinguisher
- Goggle cabinet with UV light for disinfecting
- Fume hood in 1/3 of Learning Centers/Wet Labs at wall connecting with Prep Room
- Fixed science demonstration table with gas and water

Owner Furnished – Contractor Installed

- Paper towel dispensers
- Soap dispensers

- 7 4-person tables with chemical resistant epoxy tops
- 29 adjustable height stools
- 3 computer tables, 30"x60"
- 2 tall storage cabinets with adjustable shelving
- 3 bookcases (height may be dependent on window sill height), with adjustable shelving
- Shallow drawer cabinet (must accommodate 24" x 46" paper)
- Electronic Whiteboard
- Clock
- Large Periodic Table Chart and other large wall charts (provide clear wall space and tack boards to hang additional material)
- Water distiller system to make distilled water

STERLING HIGH SCHOOL (DRAFT)

Neighborhoods

Wet Lab Storage

USERS:	ACTIVITIES:	
TeacherStaff/FacultyStudents	Teacher preparation and clean-up for lab exercises	

DESIGN CONSIDERATIONS:

• If more than one fume hood, locate to minimize the visual connection from one classroom to another.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Refrigerator/freezer with small ice maker, not self-defrosting so that temperature will be constant
- Casework on one wall with chemical resistant countertop, drawer/door base cabinets, and open shelf wall cabinets
- Drying rack mounted above sink
- Fire rated chemical storage cabinet
- Residential dishwasher with permanently attached sign stating: Thoroughly rinse all acid containing items before placing in dishwasher

Owner Furnished - Contractor Installed

- Paper towel dispenser
- Soap dispenser

- 2 tall work stools
- Maximum linear feet of 12"D, adjustable height wooden shelving with rim guards on wall facing casework
- 36"W x 84"H lockable storage cabinet
- Acid base storage cabinet, lockable



STERLING HIGH SCHOOL (DRAFT)

Neighborhoods

Flex Lab – Grad Lab

USERS:	ACTIVITIES:
Teachers24-32 Students	 Mastering the core curriculum Mastering 21st Century learning skills Project-based learning Technology-based instruction Activities that stimulate inventive thinking, creativity and imagination Collaborative relationship building Demonstrations Working individually, in small groups and in large groups

DESIGN CONSIDERATIONS:

None

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Blinds for windows
- Presentation Wall:
 - 1 4'x4' Tack Board
 - 1 8'x4' Marker Board
 - Tack Strips located 12" above marker/tack boards
 - 2 flag holders and map hooks
- Adjacent or Rear Wall:
 - 2 4'x4' Tack Boards (one on each side of 8'x4' Marker Board)
 - 1 8'x4' Marker Board

Owner Furnished – Contractor Installed

None

- **Presentation Cart**
- Stool
- Student Area:
 - 30 Student tables
 - 30 Student chairs
 - 3 computer tables, 30"x60"
- 2 tall storage cabinets with adjustable shelving 3 bookcases (height may be dependent on window sill height), with adjustable shelving
- Electronic Whiteboard
- Clock
- Phone



STERLING HIGH SCHOOL (DRAFT)



Learning Commons/Information Center

USERS:	ACTIVITIES:	
 Students Faculty Staff Community members and parents for after school events 	 Learning hub to provide effective using of information and ideas for students and faculty Circulation of materials and resources in the format of print, digital and multi-media etc. Reading Research Technology based instruction for large group and small group Provide meeting areas Processing new media 	
DECICAL CONCIDED ATIONS.		

DESIGN CONSIDERATIONS:

• Some of this square footage will be used in a centralized location for print materials. Some will be used to create extended learning areas (ELA's) for wireless research.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Blinds for windows
- Adjustable shelving for books. Locate tall shelving on room perimeter. Shelf units to be no
 wider than 36". Provide both 60-70"H (on perimeter only) and 42"H units. Perimeter units
 shall be detailed and coordinated with electrical to provide for outlets in the toe space. 42"H
 units should be double sided and on large casters.
- 8 Tables
- 6 computer tables
- Printer table
- 38 chairs
- Display cases with glass shelving for student artwork and other displays. If possible provide at corners where bookcases may meet to avoid wasted space
- Circulation desk (modular, not fixed):
 - 2 task chairs
 - Drawer/door base cabinets & low shelving behind circulation desk with work space for processing
 - Work station for computer terminals and printer. Provide grommets for wire managements
 - Multi-level check in/out counter
 - Book drop-off with depressible book truck
- Network capabilities for access to programs and on-line card catalog

Owner Furnished - Contractor Installed

None

- Soft seating: chairs and tables for 10
- Clock





STERLING HIGH SCHOOL (DRAFT)

Neighborhoods

Clock

Learning Commons/Information Center – Extended Learning Area			
USERS: ACTIVITIES:			
Students	Reading		
Faculty	 Research 		
Staff	 Technology based instruction for large group and small 		
Community members	group		
and parents for after	 Provide meeting areas 		
school events			
DESIGN CONSIDERATIONS:			
	Some of the square footage for these spaces will be from the Learning		
	Commons/Information Center.		
FURNITURE, FIXTURES & EQUIPMENT:			
Contractor Furnished – Contractor Installed			
Continuous marker surface on one wall			
Blinds for windows			
Owner Furnished – Contractor Installed			
• None			
Owner Furnished – Owner Installed			
• Tables			
• Chairs			
Soft seating			

STERLING HIGH SCHOOL (DRAFT)



Learning Commons/Information Center - Office/Storage

3	<u> </u>
USERS:	ACTIVITIES:
Media Specialist	Paper work
Faculty	Processing materials
Staff	• Laminating

DESIGN CONSIDERATIONS:

None

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Blinds for windows
- Casework:
 - Maximum LF of cabinets on 2 walls, including sink cabinet, drawer/door cabinets and wall-mounted door/shelf cabinets
 - Center island with large, shallow drawers for posters, drawer/door cabinets, and open shelving
- 4'x4' marker board
- 4'x4' tack board

Owner Furnished - Contractor Installed

- Paper towel dispenser
- Soap dispenser

- 2 Double pedestal desk with center drawer & lock, 60" x 30"
- 2 task chairs, swivel, tilt, armless
- 2 tall stools
- 3 4-shelf bookcases, 60"h x 36"w x 12"d
- 2 4-drawer vertical files, letter size, lockable
- Teacher wardrobe cabinet: coat hook, shelving, 2 drawers, lockable
- 2 mobile book trucks



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STERLING HIGH SCHOOL (DRAFT)

Neighborhoods

Special Education - Structured Learning Center

•	<u> </u>
USERS:	ACTIVITIES:
 4-10 students Teacher Teacher Aide(s) Itinerant Staff (Psychologist, Social Worker, Therapist, etc.) 	 Project-based learning Physical therapy (PT) Occupational therapy (OT) Social skills activities (appropriate social interaction skills, listening skills, etc.) Life skills activities (tooth brushing, personal care, career preparation, etc.)

DESIGN CONSIDERATIONS:

None

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- Blinds for windows
- Student Lift and Tracks
- Presentation Wall: (all items at appropriate height for age group)
 - 1 4'x4' Tack Board
 - 1 8'x4' Marker Board
 - Tack Strips located 12" above marker/tack boards
 - 2 flag holders and map hooks
- Adjacent or Rear Wall:
 - 2 4'x4' Tack Boards (one on each side of 8'x4' Marker Board)
 - 1 − 8'x4' Marker Board

Owner Furnished - Contractor Installed

None

- Teacher package
- Student Area
 - 7 open front 18"x24" student desks
 - 18 student chairs
 - 1 rectangular table, 30"x60"
 - 3 computer tables, 30"x48"
 - 1 half-moon table, 36"x72"
- 2 18" seat height, 4 leg chairs
- 2 tall storage cabinets with adjustable shelving
- 3 bookcases (height may be dependent on window sill height), with adjustable shelving
- Shallow drawer cabinet (must accommodate 24" x 46" paper)
- Electronic Whiteboard
- Clock



STERLING HIGH SCHOOL (DRAFT)



Special Education - Life Skills Learning Center

USERS:	ACTIVITIES:
 4-10 students Teacher Teacher Aide(s) Itinerant Staff (Psychologist, Social Worker, Therapist, etc.) 	 Project-based learning Physical therapy (PT) Occupational therapy (OT) Social skills activities (appropriate social interaction skills, listening skills, etc.) Life skills activities (tooth brushing, personal care, career preparation, etc.)

DESIGN CONSIDERATIONS:

None

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- · Blinds for windows
- Student Lift and Tracks
- Presentation Wall: (all items at appropriate height for age group)
 - 1 4'x4' Tack Board
 - 1 − 8'x4' Marker Board
 - Tack Strips located 12" above marker/tack boards
 - 2 flag holders and map hooks
- Adjacent or Rear Wall:
 - 2 4'x4' Tack Boards (one on each side of 8'x4' Marker Board)
 - 1 8'x4' Marker Board

Owner Furnished - Contractor Installed

None

- Teacher package
- Student Area
 - 7 open front 18"x24" student desks
 - 18 student chairs
 - 1 rectangular table, 30"x60"
 - 3 computer tables, 30"x48"
 - 1 half-moon table, 36"x72"
- 2 18" seat height, 4 leg chairs
- 2 tall storage cabinets with adjustable shelving
- 3 bookcases (height may be dependent on window sill height), with adjustable shelving
- Shallow drawer cabinet (must accommodate 24" x 46" paper)
- Electronic Whiteboard
- Clock





STERLING HIGH SCHOOL (DRAFT)

Neighborhoods

Special Education - Life Skills Restroom/Changing Room

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USERS:	ACTIVITIES:
Students	Personal hygiene
 Teacher 	Diapering
 Teacher Aide(s) 	Catheterization
Staff	Life skills activities (tooth brushing, personal care, career
	preparation, etc.)
DESIGN CONSIDERATION	S:
None	

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Wall mounted storage cabinet for changing supplies near changing table
- Ceiling tracks for Student Lifts
- Mirror above sink in restroom

Owner Furnished – Contractor Installed

- Paper towel dispenser
- Soap dispenser
- Toilet paper dispenser

- Adjustable height changing table
- Mobile student lift



STERLING HIGH SCHOOL (DRAFT)



Neighborhoods Special Education – Life Skills Kitchen/Storage

Maximum linear feet of 18"D, adjustable shelving in storage

Special Education – Life Skills Kitchen/Storage		
USERS:	ACTIVITIES:	
Teacher	Breakfast and lunch preparation	
 Teacher Aide(s) 	 Staging meals before serving 	
	Cleaning equipment	
DESIGN CONSIDERATIONS		
FURNITURE, FIXTURES & E	QUIPMENT:	
Contractor Furnished – Contractor Installed		
Refrigerator with ice maker		
Casework-handicapped accessible		
Sink cabinet		
Drawer/door base cabinets		
Door/shelf wall cabinets		
Owner Furnished – Contractor Installed		
Paper towel dispenser		
Owner Furnished – Owner Installed		

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STERLING HIGH SCHOOL (DRAFT)

Neighborhoods

Special Education – Behavioral Adjustment Learning Center

•	,
USERS:	ACTIVITIES:
 4-10 students Teacher Teacher Aide(s) Itinerant Staff (Psychologist, Social Worker, Therapist, etc.) 	 Project-based learning Physical therapy (PT) Occupational therapy (OT) Social skills activities (appropriate social interaction skills, listening skills, etc.) Life skills activities (tooth brushing, personal care, career preparation, etc.)

DESIGN CONSIDERATIONS:

None

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- Blinds for windows
- Student Lift and Tracks
- Presentation Wall: (all items at appropriate height for age group)
 - 1 4'x4' Tack Board
 - 1 8'x4' Marker Board
 - Tack Strips located 12" above marker/tack boards
 - 2 flag holders and map hooks
- Adjacent or Rear Wall:
 - 2 4'x4' Tack Boards (one on each side of 8'x4' Marker Board)
 - 1 − 8'x4' Marker Board

Owner Furnished - Contractor Installed

None

- Teacher package
- Student Area
 - 7 open front 18"x24" student desks
 - 18 student chairs
 - 1 rectangular table, 30"x60"
 - 3 computer tables, 30"x48"
 - 1 half-moon table, 36"x72"
- 2 18" seat height, 4 leg chairs
- 2 tall storage cabinets with adjustable shelving
- 3 bookcases (height may be dependent on window sill height), with adjustable shelving
- Shallow drawer cabinet (must accommodate 24" x 46" paper)
- Electronic Whiteboard
- Clock



STERLING HIGH SCHOOL (DRAFT)



Special Education – Behavioral Adjustment Restroom/Changing

USERS:	ACTIVITIES:
Students	Personal hygiene
Teacher	Diapering
 Teacher Aide(s) 	Catheterization
Staff	Life skills activities (tooth brushing, personal care, career)
	preparation, etc.)

DESIGN CONSIDERATIONS:

None

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Wall mounted storage cabinet for changing supplies near changing table
- · Ceiling tracks for Student Lifts
- Mirror above sink in restroom

Owner Furnished - Contractor Installed

- Paper towel dispenser
- Soap dispenser
- Toilet paper dispenser

Owner Furnished – Owner Installed

- Adjustable height changing table
- Mobile student lift

Room





STERLING HIGH SCHOOL (DRAFT)

Neighborhoods

Special Education – Behavioral Adjustment Kitchen/Storage

USERS:	ACTIVITIES:		
Teacher	Breakfast and lunch preparation		
 Teacher Aide(s) 	Staging meals before serving		
	Cleaning equipment		
DESIGN CONSIDERATION	DESIGN CONSIDERATIONS:		
FURNITURE, FIXTURES	& EQUIPMENT:		
Contractor Furnished –	Contractor Installed		
Refrigerator with ice maker			
Casework-handicapped accessible			
Sink cabinet			
Drawer/door base cabinets			
Door/shelf wall cabinets			
Owner Furnished – Conf	ractor Installed		
 Paper towel dispense 	·		
Owner Furnished - Own	er Installed		
Maximum linear feet of	of 18"D, adjustable shelving in storage		



STERLING HIGH SCHOOL (DRAFT)

Neighborhoods

Small Group Room

USERS:	ACTIVITIES:	
 Teachers 	Group meetings and work	
 Students 	Individual study	
	Testing	
DESIGN CONSIDERATIONS	:	
None		
FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished – Contractor Installed		
4'x8' marker board		
4'x8' tack board		
Owner Furnished – Contractor Installed		
• None		
Owner Furnished – Owner Installed		
1 - 6 person table		
6 chairs		





STERLING HIGH SCHOOL (DRAFT)

Neighborhoods

Storage

USERS:	ACTIVITIES:	
Faculty Teachers	Storing instructional materials and suppliesSecuring and charging mobile computer cart(s)	
DESIGN CONSIDERATIONS:		
None		
FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished – Contractor Installed		
4'x4' tack board		
Owner Furnished – Contractor Installed		
• None		
Owner Furnished – Owner Installed		
Maximum LF of heavy-duty 18"D adjustable shelving		



STERLING HIGH SCHOOL (DRAFT)

Neighborhoods

Lecture Hall

USERS:	ACTIVITIES:
TeachersStudents (150) capacity	 Large group meetings and work Guest Lectures Group Instruction Testing

DESIGN CONSIDERATIONS:

- Design should be in form of college style lecture hall
- Consider use of retractable lecture seating to allow for multi-purpose use of the space or

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Retractable seating with seatbacks, armrests and flip up writing space for 150
- 4'x8' marker board
- 4'x8' tack board

Owner Furnished – Contractor Installed

None

- 15 two person tables, collapsible.
- 30 stackable chairs
- Projector
- Clock





STERLING HIGH SCHOOL (DRAFT)

Neighborhoods

Lecture Hall - Stage/Lectern

USERS:	ACTIVITIES:
Students Faculty	Small AssembliesDrama RehearsalsDance RehearsalsChoir Rehearsals

DESIGN CONSIDERATIONS:

- Provide some stage/lecture area lighting with control board.
- Provide outlets and microphone plugs at the top step.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- Motorized Projection Screen
- Ceiling Mounted Projector
- Presentation Wall:
 - 1 4'x4' Tack Board
 - 1 − 8'x4' Marker Board
 - Tack Strips located 12" above marker/tack boards
 - 2 flag holders and map hooks
- Sound System

Owner Furnished - Contractor Installed

- Presentation Cart
- Speaker Podium

- Teacher stool
- Clock



STERLING HIGH SCHOOL (DRAFT)



Lecture Hall - Control Room

USERS:	ACTIVITIES:	
Students	Controlling stage lighting	
Faculty	Controlling sound system	
	 Storing A/V Equipment for stage/lectern 	
DESIGN CONSIDERATIONS:		
None	None	
FURNITURE, FIXTURES & EQ	FURNITURE, FIXTURES & EQUIPMENT:	
Contractor Furnished – Contractor Installed		
4' x 4' Markerboard		
4' x 4' tack board		
Owner Furnished – Contractor Installed		
• None		
Owner Furnished – Owner Installed		
• 2 Chairs		
• 30" x 60" table		
Tall lockable 2-door cabinets	Tall lockable 2-door cabinets	

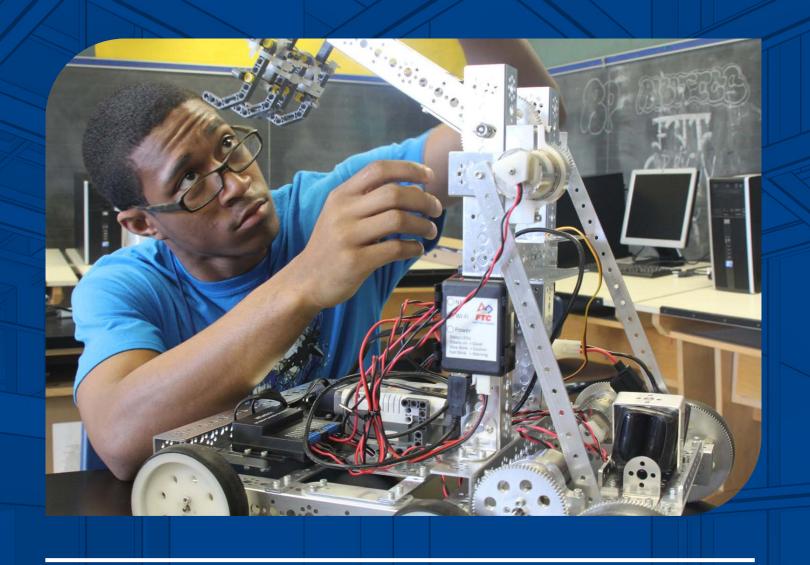




STERLING HIGH SCHOOL (DRAFT)

Neighborhoods Lecture Hall – Storage

USERS:	ACTIVITIES:
Kitchen ManagerFood Service StaffStudentsFaculty	Storing tables and chairs
DESIGN CONSIDERATIONS:	
• None	
FURNITURE, FIXTURES & EQUIPMENT:	
Contractor Furnished – Contractor Installed	
• None	
Owner Furnished – Contractor Installed	
• None	
Owner Furnished – Owner Installed	
Cart for Chairs	
Cart for Tables	



CAREER AND TECHNICAL EDUCATION



HISD EDUCATIONAL SPECIFICATIONS STERLING HIGH SCHOOL

SEPTEMBER 16, 2013 CONSTRUCTION AND FACILITY SERVICES FACILITIES PLANNING



STERLING HIGH SCHOOL (DRAFT)

Career and Technical Education

Overview:

College and career readiness is a key priority for HISD and by working closely with college partners and area businesses the students are prepared for post-secondary success. They participate in rigorous core academic courses as well as specialized courses in a career-focused area that integrates learning and provides work world experiences such as internships, job shadowing and work-based learning. CTE program clusters help students organize and prepare for college and their future career by linking both core and elective courses based on commonalities. The program also provides articulated offerings which are part of Tech Prep sequences of courses and are articulated with a specific college and credits can apply toward a four-year degree. The clusters are:

Aviation – Aviation Technology provides an introduction to the world of aviation and the aerospace industry. It is designed for students who intend to pursue either pilot training or aviation related career fields.

Futures Academy/Logistics – planning, organizing, directing and evaluating business functions essential to efficient and productive business operations.

Welding – Welding is not only a career path, but it is essential to the learning and practice of other fields, such as Aviation.

HVAC – The Heating, Air Conditioning & Refrigeration program prepares students to meet the growing demand for Heating & Air Conditioning Installer / Repairers in Texas, and the United States.

Auto Technology – The curriculum for Automotive Technology involves "real world training" in an on-the-job type program. Training in the most up-to-date technologies enables a student to gain practical experience. Use of modern specialized equipment with emphasis on "hands-on" training makes this course beneficial to future technicians, as well as automobile owners.

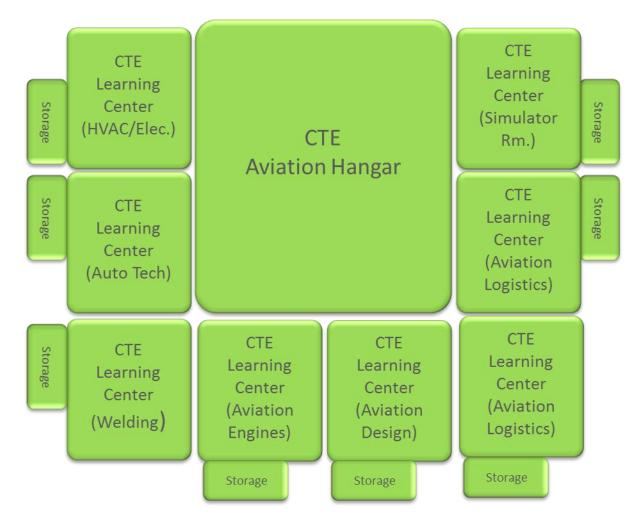
Transportation, Distribution, Logistics – planning, management and movement of people, materials and goods by road, pipeline, air, rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

The CTE spaces should be located adjacent to the neighborhoods. This will allow for collaboration with the core academic programs. Additionally, it will provide access to the Extended Learning Area which can be used for small group sessions, presentations, etc.





STERLING HIGH SCHOOL (DRAFT)



Legend

Physical connection
Visual connection

Visual connection
Physical and/or acoustic separation

The functional relationships illustrated are diagrammatic only. Further interpretation of these relationships shall be implemented by the Design Team



STERLING HIGH SCHOOL (DRAFT)



Space Requirements

Career and Technical Education - Transportation, Distribution, and Logistics	Teaching Station(s)	Quantity	Square Feet	Net Area
CTE - Aviation Airframe				
Aviation Hangar	1	1	10,000	10,000
Aviation Welding	1	1	1,400	1,400
Storage		1	200	200
Aviation Design/Engineering Learning Center	1	1	1,200	1,200
Aviation Design Storage		1	200	200
CTE - Aviation Power Plant				
Aviation Learning Center (HVAC/Electrical)	1	1	1,400	1,400
Storage		1	200	200
Aviation Learning Center (Engines)	1	1	1,400	1,400
Storage		1	200	200
CTE - Aviation Operations				
Futures Academy/Logistics	2	2	1,400	2,800
Storage		1	200	200
Aviation Learning Center (Simulator Room)	1	1	1,400	1,400
Storage		1	200	200
CTE - Auto Technology	1	1	1,400	1,400
Storage		1	200	200
Total	9			22,400



STERLING HIGH SCHOOL (DRAFT)

Career and Technical Education - Aviation

Hangar

USERS:	ACTIVITIES:
Teacher	Project-based learning
 Students 	Technology-based instruction
	 Activities that stimulate inventive thinking, creativity and imagination in the area of aviation
	Collaborative relationship building
	 Demonstrations
	Working individually, in small groups and in large groups

DESIGN CONSIDERATIONS:

- Potentially multi-purpose use by automotive program also.
- Overhead lift on a track for moving large pieces of equipment.
- Floor and walls should be painted white.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

Deep utility sink

Owner Furnished - Contractor Installed

None

- Presentation Cart
- Teacher stool
- Clock
- 30 student chairs
- Tables for 30 students
- Tool cabinets



STERLING HIGH SCHOOL (DRAFT)

Career and Technical Education - Aviation

Welding Lab

USERS:	ACTIVITIES:
Teachers24-32 Students	 Mastering the core curriculum Mastering 21st Century learning skills Project-based learning Technology-based instruction Activities that stimulate inventive thinking, creativity and imagination Collaborative relationship building Working individually, in small groups and in large groups Welding

DESIGN CONSIDERATIONS:

- Provide overhead door for ease of movement of materials to/from exterior covered area adjacent to drive/parking
- Back of room is a separate space with divider for welding booths, separated with a glass wall

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- · Blinds for windows
- Overhead power throughout space
- · Wall hooks near entry door for student aprons
- Presentation Wall:
 - 1 4'x4' Tack Board
 - 1 − 8'x4' Marker Board
 - Tack Strips located 12" above marker/tack boards
 - 2 flag holders and map hooks
- Separate space with clear glass wall for visibility from learning center with 14 welding booths
- Adjacent or Rear Wall:
 - 2 4'x4' Tack Boards (one on each side of 8'x4' Marker Board)
 - 1 − 8'x4' Marker Board

Owner Furnished - Contractor Installed

None

- Presentation Cart
- Stool
- Student Area
 - 7 4 Student work tables
 - 28 Student chairs
 - 28 Student stools (welding area)
- 2 tall storage cabinets with adjustable shelving
- 3 bookcases (height may be dependent on window sill height), with adjustable shelving
- Electronic Whiteboard
- Clock
- 14 welding booths





STERLING HIGH SCHOOL (DRAFT)

Career and Technical Education - Aviation

Welding Storage

2 tool cabinets

Welaling Olorage		
USERS:	ACTIVITIES:	
Teacher	Storing of materials	
Students		
DESIGN CONSIDERATIONS:		
 Provide direct access from We 	elding Lab	
Provide visual access to Welding Lab		
FURNITURE, FIXTURES & EQUIF	PMENT:	
Contractor Furnished – Contract	tor Installed	
Include tool cage for storing tools.		
Separated storage racks for oxygen and acetylene		
Owner Furnished – Contractor Ir	nstalled	
Paper towel dispenser		
Soap dispenser		
Owner Furnished – Owner Instal	led	
Adjustable height shelving		
Shelving and cabinets for tools		

STERLING HIGH SCHOOL (DRAFT)

Career and Technical Education - Aviation

Design/Engineering Learning Center

USERS:	ACTIVITIES:
Teacher	Project-based learning
Students	Technology-based instruction
	Activities that stimulate inventive thinking, creativity and
	imagination in the area of aviation
	Collaborative relationship building
	Demonstrations
	Working individually, in small groups and in large groups
DECICAL CONCIDED ATIONS.	

DESIGN CONSIDERATIONS:

None

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Blinds for windows
- 2 single sided fume hoods for student work
- Deep sink
- Pegboard or other method of displaying projects located above door head height around perimeter of room
- Provide power overhead 220 volt and 120 volt
- Presentation Wall:
 - 1 4'x4' Tack Board
 - 1 − 8'x4' Marker Board
 - Tack Strips located 12" above marker/tack boards
 - 2 flag holders and map hooks
- Adjacent or Rear Wall:
 - 2 4'x4' Tack Boards (one on each side of 8'x4' Marker Board)
- 1 8'x4' Marker Board

Owner Furnished – Contractor Installed

- Paper towel dispenser
- Soap dispenser

- Presentation Cart
- Teacher stool
- Student Area
 - 30 Student chairs
 - 15 computer tables, 30"x60"
- 2 tall storage cabinets with adjustable shelving
- 3 bookcases (height may be dependent on window sill height), with adjustable shelving
- Electronic Whiteboard mounted on presentation wall adjacent to and at same height as marker board
- Clock





STERLING HIGH SCHOOL (DRAFT)

36"W x 84"H lockable storage cabinet

Career and Technical Education - Aviation

Design - Storage

2 tool cabinets

Design - Storage			
USERS: ACTIVITIES:			
Teacher	Storing tools		
Students	Storing equipment		
DESIGN CONSIDERATIONS:			
Can storage space be shared and made larger			
FURNITURE, FIXTURES & EQUIF	PMENT:		
Contractor Furnished – Contractor Installed			
None			
Owner Furnished – Contractor In	nstalled		
None			
Owner Furnished – Owner Instal	led		
18"D, adjustable height shelving			
24" D, adjustable height shelving			
Pegboard on one wall			

STERLING HIGH SCHOOL (DRAFT)

Career and Technical Education - Aviation

HVAC/Electrical Learning Center

USERS:	ACTIVITIES:
Teachers24-32 Students	 Mastering the core curriculum Mastering 21st Century learning skills Project-based learning Technology-based instruction Activities that stimulate inventive thinking, creativity and imagination Collaborative relationship building Demonstrations of HVAC and electrical techniques for aviation Working individually, in small groups and in large groups

DESIGN CONSIDERATIONS:

- Provide overhead door for ease of movement of materials to/from exterior covered area adjacent to drive/parking
- Provide sufficient clear space within room for flexible arrangement of student tables, power tools and work space

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- Blinds for windows
- · Overhead power throughout space
- · Wall hooks near entry door for student aprons
- Presentation Wall:
 - 1 4'x4' Tack Board
 - 1 − 8'x4' Marker Board
 - Tack Strips located 12" above marker/tack boards
 - 2 flag holders and map hooks
- Adiacent or Rear Wall:
 - 2 4'x4' Tack Boards (one on each side of 8'x4' Marker Board)
 - 1 8'x4' Marker Board

Owner Furnished - Contractor Installed

None

- Presentation Cart
- Stool
- Student Area
 - 8-4 Student work tables
 - 30 Student stools
 - 3 computer tables, 30"x60"
 - 6 Student chairs:
- 2 tall storage cabinets with adjustable shelving
- 3 bookcases (height may be dependent on window sill height), with adjustable shelving
- Power tools with integral sawdust collection
- Electronic Whiteboard
- Clock





STERLING HIGH SCHOOL (DRAFT)

Career and Technical Education - Aviation

HVAC/Flectrical Storage

11V/O/Electrical Otorage			
USERS:	ACTIVITIES:		
Teacher	Storing of materials		
 Students 			
DESIGN CONSIDERATIONS:			
Provide direct access from Construction Lab			
Provide visual access to Construction Lab			
FURNITURE. FIXTURES & EQUIPMENT:			

Contractor Furnished – Contractor Installed

- Deep sink
- Floor drain
- Storage racks for copper pipe, PVC pipe

Owner Furnished – Contractor Installed

- Paper towel dispenser
- Soap dispenser

- Adjustable height shelving
- Shelving and cabinets for tools

STERLING HIGH SCHOOL (DRAFT)



Engines

US	SERS:	AC	CTIVITIES:
•	Teachers	•	Project-based learning
•	24-32 Students	•	Technology-based instruction
		•	Demonstrations
		•	Working individually, in small groups and in large groups

DESIGN CONSIDERATIONS:

• Must have direct access to hangar area used for aviation program

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Blinds for windows
- Presentation Wall:
 - 1 4'x4' Tack Board
 - 1 − 8'x4' Marker Board
 - Tack Strips located 12" above marker/tack boards
 - 2 flag holders and map hooks
- Adjacent or Rear Wall:
 - 2 4'x4' Tack Boards (one on each side of 8'x4' Marker Board)
 - 1 − 8'x4' Marker Board
- Overhead track and hoist for moving heavy equipment

Owner Furnished – Contractor Installed

None

- Presentation Cart
- Stool
- Student Area:
 - 30 -1 person tables
 - 30 task chairs
- 2 tall storage cabinets with adjustable shelving
- 3 bookcases (height may be dependent on window sill height), with adjustable shelving
- Electronic Whiteboard
- Clock
- Engines on wheels for demonstrations and practice





STERLING HIGH SCHOOL (DRAFT)

Career and Technical Education - Aviation

Engines - Storage

2 tool cabinets

Lingines - Storage	
USERS:	ACTIVITIES:
Teacher	Storing materials
Students	Storing tools
	Storing equipment
DESIGN CONSIDERATIONS:	
Access directly from Aviation lab	
FURNITURE, FIXTURES & EQUIPMENT	Γ:
Contractor Furnished – Contractor Inst	talled
None	
Owner Furnished – Contractor Installe	d
None	
Owner Furnished – Owner Installed	
18"D, adjustable height shelving	
24" D, adjustable height shelving	
Pegboard on one wall	
36"W x 84"H lockable storage cabine	t
 Heavy duty adjustable shelving 	

STERLING HIGH SCHOOL (DRAFT)



Futures Academy Learning Center

USERS:	ACTIVITIES:
Teachers24 Students	 Technology-based instruction Activities that stimulate inventive thinking, creativity and imagination Collaborative relationship building Keyboarding Learning and practicing computer skills and software programs Working individually, in small groups and in large groups

DESIGN CONSIDERATIONS:

• Provide power and data on the perimeter of the room

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- Blinds for windows
- Presentation Wall:
 - 1 4'x4' Tack Board
 - 1 8'x4' Marker Board
 - Tack Strips located 12" above marker/tack boards
 - 2 flag holders and map hooks

Owner Furnished – Contractor Installed

None

Owner Furnished – Owner Installed

- **Presentation Cart**
- Teacher stool
- 14 two student tables
- 28 task chairs
- Electronic Whiteboard mounted on presentation wall adjacent to and at same height as marker board

HOUSTON INDEPENDENT SCHOOL DISTRICT

www.houstonisd.org//Domain/7974

Clock





STERLING HIGH SCHOOL (DRAFT)

Career and Technical Education

Futures Academy Storage

r diarou riodddonny Otorag	, -		
USERS:	ACTIVITIES:		
Teachers	Storing materials and supplies		
Students			
DESIGN CONSIDERATIONS:			
Directly accessible from Learning Center			
FURNITURE, FIXTURES & EQUIPMENT:			
Contractor Furnished – Contractor Installed			
4'x 4' Tack Board			
Owner Furnished – Contractor Installed			
None			
Owner Furnished – Owner Installed			
Adjustable 12" and 18" deep shelving			



STERLING HIGH SCHOOL (DRAFT)



Flight Simulation Learning Center

-	_
USERS:	ACTIVITIES:
Teachers24 Students	 Technology-based instruction Activities that stimulate inventive thinking, creativity and imagination Collaborative relationship building Keyboarding Learning and practicing computer skills and software programs Working individually, in small groups and in large groups

DESIGN CONSIDERATIONS:

• Provide power and data on the perimeter of the room

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- Blinds for windows
- Presentation Wall:
 - 1 4'x4' Tack Board
 - 1 − 8'x4' Marker Board
 - Tack Strips located 12" above marker/tack boards
 - 2 flag holders and map hooks

Owner Furnished - Contractor Installed

None

- Presentation Cart
- Teacher stool
- 12 two student tables
- 24 task chairs
- Electronic Whiteboard mounted on presentation wall adjacent to and at same height as marker board
- Clock
- 3 flight simulators





STERLING HIGH SCHOOL (DRAFT)

Career and Technical Education

Flight Simulation Storage

USERS:	ACTIVITIES:			
• Teachers	Storing materials and supplies			
Students				
DESIGN CONSIDERATIONS:	DESIGN CONSIDERATIONS:			
Directly accessible from Learning Center				
 Can this space be shared with 	Can this space be shared with adjacent lab			
FURNITURE, FIXTURES & EQUIPMENT:				
Contractor Furnished – Contractor Installed				
4'x 4' Tack Board				
Owner Furnished – Contractor Installed				
None				
Owner Furnished – Owner Installed				
Adjustable 12" and 18" deep shelving				



STERLING HIGH SCHOOL (DRAFT)

Career and Technical Education

Auto Technology

USERS:	ACTIVITIES:			
Teachers	Project-based learning			
24-32 Students	Technology-based instruction			
	Demonstrations			
	Working individually, in small groups and in large groups			

DESIGN CONSIDERATIONS:

Must have direct access to hangar area used for automotive program

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Blinds for windows
- Presentation Wall:
 - 1 4'x4' Tack Board
 - 1 − 8'x4' Marker Board
 - Tack Strips located 12" above marker/tack boards
 - 2 flag holders and map hooks
- Adjacent or Rear Wall:
 - 2 4'x4' Tack Boards (one on each side of 8'x4' Marker Board)
 - 1 − 8'x4' Marker Board
- Overhead track with hoist for moving large equipment
- Lift to raise cars for repair

Owner Furnished – Contractor Installed

None

- Presentation Cart
- Stool
- Student Area:
 - 30 -1 person computer tables
 - 30 task chairs
- 2 tall storage cabinets with adjustable shelving
- 3 bookcases (height may be dependent on window sill height), with adjustable shelving
- 6 tool cabinets
- 4 work tables
- Electronic Whiteboard
- Clock





STERLING HIGH SCHOOL (DRAFT)

Career and Technical Education

Auto Technology - Tools/Storage

2 tool cabinets

Auto Technology – Tools/Stora	age		
USERS:	ACTIVITIES:		
Teacher	Storing materials		
Students	Storing tools		
	Storing equipment		
DESIGN CONSIDERATIONS:			
 Access directly from Auto lab 			
FURNITURE, FIXTURES & EQUIPMENT	Ī:		
Contractor Furnished – Contractor Inst	talled		
None			
Owner Furnished – Contractor Installe	d		
None			
Owner Furnished – Owner Installed			
18"D, adjustable height shelving			
 24" D, adjustable height shelving 			
Pegboard on one wall			
36"W x 84"H lockable storage cabine	t		
Heavy duty adjustable shelving			



VISUAL ARTS



HISD EDUCATIONAL SPECIFICATIONS
STERLING HIGH SCHOOL

SEPTEMBER 16, 2013 CONSTRUCTION AND FACILITY SERVICES FACILITIES PLANNING



STERLING HIGH SCHOOL (DRAFT)

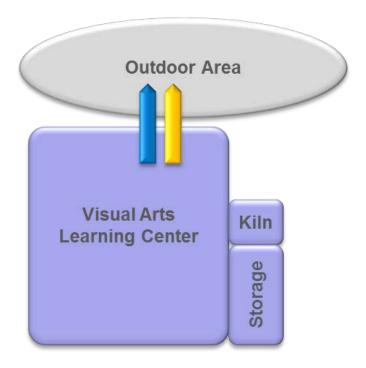


Overview:

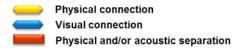
The arts are fundamental to communicating and understanding not only ourselves, but others. Through the arts we learn to appreciate and to create things of beauty. Important 21st Century skills enhanced by arts education include creativity, innovation, critical thinking, cooperative decision making, leadership, and capacity of problem-posing and solving. Visual Arts Learning Centers should:

- Meet the state and federal requirements
- Provide a view to the outdoors
- Provide for flexibility of course offerings
- Be easy to clean
- Create an environment conducive to creativity

The Visual Arts should be located in proximity to the Performing Arts to encourage collaboration.



Legend



The functional relationships illustrated are diagrammatic only. Further interpretation of these relationships shall be implemented by the Design Team.





STERLING HIGH SCHOOL (DRAFT)

Space Requirements

Visual Arts	Teaching Station(s)	Quantity	Square Feet	Net Area
Visual Arts Wet Lab	2	2	1,200	2,400
Kiln Room		1	80	80
Storage Room		1	250	250
Total	2			2,730

STERLING HIGH SCHOOL (DRAFT)



Visual Arts Learning Center

USERS:	ACTIVITIES:
TeachersStudents	 Creative individual and group activities Learning/researching art history/artist Discussions on Art criticism Learning/practicing drawing, painting, embossed prints,
	ceramics, sculptures, etc.

DESIGN CONSIDERATIONS:

- Need area for arranging still life with track lighting.
- Northern exposure desirable.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Blinds for windows
- Presentation Wall: (all items at appropriate height for age group):
 - 4'x4' marker boards (one on each side of Electronic Whiteboard)
 - 24' tack strip located 12" above marker/tack boards
 - Flag holders and map hooks
- Adjacent or Rear Wall: (all items at appropriate height for age group):
 - 8' marker board with tack strip
 - 4' tack boards
- Casework Side wall:
 - Sink cabinets with sink projecting from front edge of casework to allow access from 3 sides
- Door/shelf cabinets above sinks
- Shelving above marker boards and windows for project display
- 1 wall with continuous tackable surface

Owner Furnished – Contractor Installed

- Paper towel dispenser
- Soap dispenser

- Teacher demonstration table, 30"x60", adjustable height, with chemical resistant top
- Tall teacher stool
- Student Area:
 - 28 student adjustable height stools
 - 7 art tables, 42"x60", with chemical resistant tops (1 to be used for still life set-up)
 - 2 computer tables, 30"x60"
- Electronic Whiteboard
- 2 tall storage cabinets with adjustable shelving
- Portfolio cabinets
- Double-sided mobile drying rack
- 2 mobile paper racks
- 55-tray tote tray cabinet
- 3 bookcases (height may be dependent on window sill height), with adjustable shelving
- Shallow drawer cabinet (must accommodate 24" x 46" paper)





STERLING HIGH SCHOOL (DRAFT)

Visual Arts

Kiln Room

USERS:	ACTIVITIES:
Art teacher	Storing greenware.
	Firing items in kiln.
DESIGN CONSIDERATIONS	
None	
FURNITURE, FIXTURES & E	QUIPMENT:
Contractor Furnished – Con	tractor Installed
Electric kiln	
Exhaust System	
Owner Furnished – Contract	or Installed
 None 	
Owner Furnished – Owner Ir	estalled
Greenware cabinet with do	pors



STERLING HIGH SCHOOL (DRAFT)

Visual Arts

Storage Room

9	
USERS:	ACTIVITIES:
Art teacher	Storing and maintaining art supplies.
DESIGN CONSIDERATIONS	
None	
FURNITURE, FIXTURES & E	QUIPMENT:
Contractor Furnished – Con	tractor Installed
• None	
Owner Furnished – Contrac	tor Installed
None	
Owner Furnished – Owner I	nstalled
Maximum LF of heavy-du	ty, adjustable height shelving – 50% 18" d, 25% 24" d, 25% 12" d.
3-shelf mobile cart with re	cessed top well for moving supplies between Art Storage and
Visual Arts Learning Cent	er



STERLING HIGH SCHOOL (DRAFT)



PERFORMING ARTS



HISD EDUCATIONAL SPECIFICATIONS STERLING HIGH SCHOOL SEPTEMBER 16, 2013

CONSTRUCTION AND FACILITY SERVICES
FACILITIES PLANNING



STERLING HIGH SCHOOL (DRAFT)

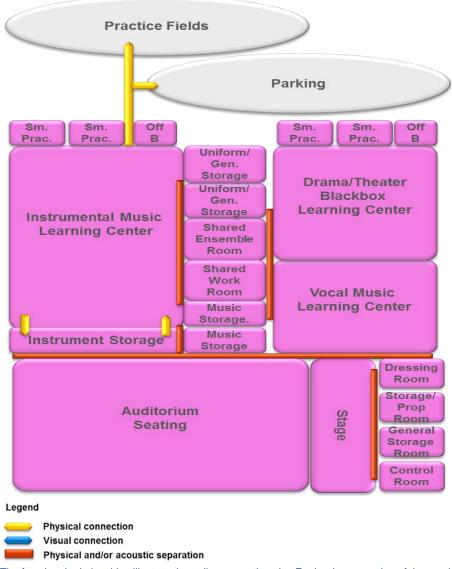


Performing Arts

The arts are fundamental to communicating and understanding not only ourselves, but others. Through performing arts students build a value system in which they learn self-discipline and responsibility. Important 21st Century skills enhanced by arts education include creativity, innovation, critical thinking, cooperative decision making, leadership, and capacity of problem-posing and solving. Performing Arts learning centers should:

- Provide for flexibility of course offerings
- Be accessible after regular school hours
- Create an environment conducive to creativity

The Performing Arts Learning Centers should be located adjacent to performance spaces – stage at cafeteria, auditorium, etc. and be in proximity to the Visual Arts to encourage collaboration.



The functional relationships illustrated are diagrammatic only. Further interpretation of these relationships shall be implemented by the Design Team.



STERLING HIGH SCHOOL (DRAFT)

Space Requirements

Performing Arts	Teaching Station(s)	Quantity	Square Feet	Net Area
Instrumental Music Learning Center (Band)	1	1	1,800	1,800
Instrument Storage		1	800	800
Uniform/General Storage		1	400	400
Music Storage/Library		1	150	150
Practice Room		2	50	100
Office, Band Director		1	120	120
Theatre/Black Box Learning Center	1	1	1,600	1,600
Black Box Control Room		1	100	100
Costume/General Storage		1	400	400
Prop Storage/Script Library		1	200	200
Practice Room		2	50	100
Office, Theater Director		1	120	120
Shared Workroom		1	250	250
Shared Ensemble Room		1	600	600
Auditorium				
Auditorium, Seating Area for 500		1	5,100	5,100
Auditorium, Control Room		1	175	175
Auditorium, Stage		1	2,000	2,000
Auditorium, Lobby (Share with Gym?)		1	1,200	1,200
Auditorium, Tickets (Share with Gym?)		1	75	75
Auditorium, Concessions (Share with Gym?)		1	225	225
Auditorium, Set Construction		1	400	400
Auditorium, Prop/ Costume Storage		2	275	550
Auditorium, Dressing Room		2	250	500
Auditorium, Dressing Room - Restroom		2	50	100
Vocal Music Learning Center	1	1	1,200	1,200
Uniform/General Storage		1	200	200
Music Storage/Library		1	100	100
Total	3			18,565



STERLING HIGH SCHOOL (DRAFT)



Instrumental Music Learning Center

USERS:	ACTIVITIES:
Instrumental Music Instructors/Director(s)	Developing technical music skills through individual work, group work and performances
 Students 	Instrumental music theory instruction
	Orchestra Classes
	Recitals
	Meeting area for community
	Recording of performances
	Sectional usage

DESIGN CONSIDERATIONS:

- Size opening to allow for transporting piano, drums, etc.
- Provide acoustical treatments
- Perimeter walls of the entire music suite and the walls of the instructional spaces shall be min. STC-60. Other walls within the suite shall be min. STC-45.
- Sound-rated door should share the same rating as the walls.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Provide maximum LF of shelving above door height for display
- 2 marker boards, one with permanent music staff markings.
- 2 4'x4' tack boards
- Electronic whiteboard
- Sound system for recording and playback

Owner Furnished – Contractor Installed

None

- 60 stackable posture chairs with retractable arms
- 60 music stands
- Music stand cart
- Instrumental music risers
- Small stand carts for risers
- Conductor's podium: double podium with rail
- Music folio cabinets



NO DESTRUCTION OF THE PROPERTY OF THE PROPERTY

HISD EDUCATIONAL SPECIFICATIONS

STERLING HIGH SCHOOL (DRAFT)

Performing Arts

Instrumental Music Learning Center – Instrument Storage

USERS:	ACTIVITIES:
Instrumental Music Instructors/Director(s)Students	Storing and retrieving orchestra instruments

DESIGN CONSIDERATIONS:

- Size opening to allow for transporting piano, drums, etc.
- Perimeter walls of the entire music suite and the walls of the instructional spaces shall be min. STC-60. Other walls within the suite shall be min. STC-45.
- Sound-rated door should share the same rating as the walls.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- 4'x4' marker board
- 4'x4' tack board
- Maximum # of instrument storage cabinets, lockable, solid doors
- Deep utility sink for cleaning instruments

Owner Furnished – Contractor Installed

- Paper towel dispenser
- Soap dispenser

Owner Furnished - Owner Installed

• 200 lb. Ice Machine

Average Distribution of Band Instruments (Wenger)

Average Distribution of Orchestra Instruments (Wenger)

Instrument	Percent	Instrument	Percent
Piccolo	1%	Violin	25%
Oboe	3%	Viola	19%
Flute	12%	Cello	14%
Clarinet	24%	Double Bass	8%
Alto Clarinet	3%	Flute	3%
Bass Clarinet	3%	Clarinet	3%
Bassoon	4%	Trumpet	6%
Alto Sax	5%	Trombone	4%
Tenor Sax	1%	Tuba	1%
Baritone Sax	1%	French Horn	11%
Cornet/Trumpet	14%	Oboe	3%
French Horn	6%	Bassoon	3%
Baritone Horn	4%		100%
Trombone	6%		
Tuba	4%		
Snare Drum	6%		
Tenor Drum	2%		
Base Drum	1%		
	100%		



STERLING HIGH SCHOOL (DRAFT)



Instrumental Music Learning Center – Uniform/General Storage

	0	0
USERS:	ACTIVITIES:	
 Instrumental Music Directors 	Storing and retrieving uniforms	
 Students 		
DESIGN CONSIDERATIONS:		
 Perimeter walls of the entire music suite and the walls of the instructional spaces shall be min. STC-60. Other walls within the suite shall be min. STC-45. Sound-rated door should share the same rating as the walls. 		

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

4'x4' marker board

Double doors.

- 4'x4' tack board
- Maximum LF of double hanging rods with shelving above

Owner Furnished - Contractor Installed

• None

Owner Furnished – Owner Installed

None





STERLING HIGH SCHOOL (DRAFT)

Performing Arts

Instrumental Music Learning Center – Music Storage/Library

USE	ERS:	ACTIVITIES:
•	Instrumental Music	Storing and sorting music
	Directors	
•	Students	

DESIGN CONSIDERATIONS:

- Perimeter walls of the entire music suite and the walls of the instructional spaces shall be min. STC-60. Other walls within the suite shall be min. STC-45.
- Sound-rated door should share the same rating as the walls.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- 4'x4' marker board
- 4'x4' tack board
- Maximum LF of heavy-duty, adjustable, wall-mounted shelving above file cabinets for additional storage

Owner Furnished - Contractor Installed

None

- Music sorting cabinet
- 10 4-drawer vertical file cabinets
- 24"x36" table
- 2 chairs

STERLING HIGH SCHOOL (DRAFT)

Performing Arts

Office B (Band Director)

USERS:	ACTIVITIES:
 Attendance Clerk, Registrar, Officer Staff Students 	 Administrative tasks Preparation of correspondence and reports Creating and documenting new and existing students Meeting with parents, students and other visitors
Parents	

DESIGN CONSIDERATIONS:

 Consider use of large open room with office cubicle configuration that is conducive to staff collaboration

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Blinds on windows
- 4'x4' marker board
- 4'x4' tack board

Owner Furnished - Contractor Installed

None

- Double pedestal desk with center drawer & lock, 60" x 30"
- Task chair
- 2 Guest chairs
- 4-shelf bookcase, 52"H x 36"W x 15"D
- 4-drawer vertical file, letter size, lockable





STERLING HIGH SCHOOL (DRAFT)

Performing Arts

Office B (Theater Director)

USERS:	ACTIVITIES:
Attendance Clerk,	Administrative tasks
Registrar, Officer	Preparation of correspondence and reports
Staff	Creating and documenting new and existing students
Students	Meeting with parents, students and other visitors
Parents	

DESIGN CONSIDERATIONS:

 Consider use of large open room with office cubicle configuration that is conducive to staff collaboration

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Blinds on windows
- 4'x4' marker board
- 4'x4' tack board

Owner Furnished - Contractor Installed

None

- Double pedestal desk with center drawer & lock, 60" x 30"
- Task chair
- 2 Guest chairs
- 4-shelf bookcase, 52"H x 36"W x 15"D
- 4-drawer vertical file, letter size, lockable

STERLING HIGH SCHOOL (DRAFT)



Vocal Music Learning Center

USERS:	ACTIVITIES:
 Vocal Music Instructors/Director(s) Students 	 Developing technical music skills through individual work, group work and performances Choir/Vocal Classes Recitals Meeting area for community Recording of performances Vocal music theory instruction Sectional usage
DECICAL CONCIDED ATIONS	O-

DESIGN CONSIDERATIONS:

- Provide acoustical treatments.
- Perimeter walls of the entire music suite and the walls of the instructional spaces shall be min. STC-60. Other walls within the suite shall be min. STC-45.
- Sound-rated door should share the same rating as the walls.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Provide maximum LF of shelving above door height for display
- Provide 2 marker boards, one with permanent music staff markings.
- 2 4'x4' tack boards
- Electronic whiteboard
- · Sound system for playback and recording

Owner Furnished – Contractor Installed

- Paper towel dispenser
- Soap dispenser

- 50 posture chairs with retractable table arms
- 50 music stands
- Music stand cart
- Music risers
- 1 Presentation cart
- 2 music folio cabinets
- Upright Piano





STERLING HIGH SCHOOL (DRAFT)

Performing Arts

None

Vocal Music Learning Center – Uniform/General Storage

Vocal Madic Edulling Contor Children Contago		
USERS:	ACTIVITIES:	
Vocal Music Directors	Storing and retrieving uniforms.	
 Students 		
DESIGN CONSIDERATIONS:		
	tire music suite and the walls of the instructional spaces shall be	
min. STC-60. Other walls within the suite shall be min. STC-45.		
Sound-rated door should share the same rating as the walls.		
FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished – Contractor Installed		
4'x4' marker board		
4'x4' tack board		
Maximum LF of double hanging rods with shelving above		
Owner Furnished – Contractor Installed		
None		
Owner Furnished – Owner Installed		

STERLING HIGH SCHOOL (DRAFT)



Vocal Music Learning Center – Music Storage/Library

U	SERS:	AC	CTIVITIES:
•	Vocal Music Directors	•	Storing and sorting music.
•	Students		

DESIGN CONSIDERATIONS:

- Perimeter walls of the entire music suite and the walls of the instructional spaces shall be min. STC-60. Other walls within the suite shall be min. STC-45.
- Sound-rated door should share the same rating as the walls.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- 4'x4' marker board
- 4'x4' tack board
- Maximum LF of heavy-duty, adjustable, wall-mounted shelving above file cabinets for additional storage

Owner Furnished - Contractor Installed

None

- Music sorting cabinet
- 10 4-drawer vertical file cabinets
- 24"x36" table
- 2 chairs





STERLING HIGH SCHOOL (DRAFT)

Performing Arts

Shared Workroom

USERS:	ACTIVITIES:
 Instrumental Music/ 	Planning and sorting music for classes
Vocal Music Directors	Grading
Students	Meeting with students
DEGLES CONTRACTOR AND ADDRESS OF THE PROPERTY	

DESIGN CONSIDERATIONS:

- Perimeter walls of the entire music suite and the walls of the instructional spaces shall be min. STC-60. Other walls within the suite shall be min. STC-45.
- Sound-rated door should share the same rating as the walls.
- Provide visual connection to learning centers

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- 4'x4' marker board
- 4'x4' tack board

Owner Furnished - Contractor Installed

None

- 2 Double pedestal desk with center drawer & lock, 60" x 30"
- Task chair, swivel, tilt, armless
- Guest chairs
- 4-shelf bookcase, 52"H x 36"W x 15"D
- 4-drawer vertical file, letter size, lockable

STERLING HIGH SCHOOL (DRAFT)



Shared Ensemble Room

USERS:	ACTIVITIES:
 Instrumental Music/Vocal Music Directors Students (up to 30) 	 Group rehearsals and lessons Sectionals
DECICAL CONCIDERATIONS	

DESIGN CONSIDERATIONS:

- Provide acoustical treatments
- Perimeter walls of the entire music suite and the walls of the instructional spaces shall be min. STC-60. Other walls within the suite shall be min. STC-45.

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Sound-rated door should share the same rating as the walls.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

None

Owner Furnished – Contractor Installed

None

- 15 20 stackable posture chairs
- Chair storage cart
- 1 conductor's chair, music stand, podium
- Upright piano





STERLING HIGH SCHOOL (DRAFT)

Performing Arts

Drama Learning Center - Prop Storage/Script Library

Drama Loanning Com	tor Trop Gtorago, Compt Elbrary	
USERS:	ACTIVITIES:	
Vocal Music Directors	Storing scripts and props.	
Students		
DESIGN CONSIDERATIONS:		
 Perimeter walls of the entire music suite and the walls of the instructional spaces shall be min. STC-60. Other walls within the suite shall be min. STC-45. 		
Sound-rated door should share the same rating as the walls.		
FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished – Contractor Installed		
4'x4' marker board		
4'x4' tack board		
Owner Furnished – Contractor Installed		

- Owner Furnished Owner Installed • 24"x36" table
- 2 chairs

None

• Wood storage of various depths, adjustable

STERLING HIGH SCHOOL (DRAFT)



Drama Learning Center - Costume/General Storage

USERS:	ACTIVITIES:
Drama Teacher/Directors	Storing costumes
 Students 	
DESIGN CONSIDERATIONS:	

- Perimeter walls of the entire music suite and the walls of the instructional spaces shall be min. STC-60. Other walls within the suite shall be min. STC-45.
- Sound-rated door should share the same rating as the walls.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- 4'x4' marker board
- 4'x4' tack board
- Maximum LF of double hanging rods with shelving above

Owner Furnished – Contractor Installed

None

Owner Furnished – Owner Installed

Adjustable storage shelving





STERLING HIGH SCHOOL (DRAFT)

Music stands

Performing Arts
Small Practice Room(s) – Shared

Small Practice Room(Small Practice Room(s) – Snared	
USERS:	ACTIVITIES:	
 Drama, Vocal, and 	Individual or small group band practice	
Music Directors	May be used as control booth (with mobile equipment) for	
 Students 	recording events/practices in Instrumental Learning Center.	
DESIGN CONSIDERATIONS	S :	
Perimeter walls of the ent	ire music suite and the walls of the instructional spaces shall be	
min. STC-60. Other walls	min. STC-60. Other walls within the suite shall be min. STC-45.	
Sound-rated door should share the same rating as the walls.		
Provide visual connection to learning center		
FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished – Contractor Installed		
 Acoustical treatment 		
4'x4' marker board		
4'x4' tack board		
Owner Furnished – Contractor Installed		
• None		
Owner Furnished – Owner Installed		
Student chairs		

STERLING HIGH SCHOOL (DRAFT)



Drama Learning Center - Black Box

USERS:	ACTIVITIES:
TeacherStudentsCommunity	 Developing technical theatre skills through individual work, group work and performances Drama instruction Performances Rehearsals Dance Meeting area for community Recording of performances

DESIGN CONSIDERATIONS:

- Size opening to allow for transporting sets, equipment, etc.
- Consider overhead door to Prop Storage and exterior for ease of set and equipment movement
- Provide acoustical treatments
- Perimeter walls of the entire performing arts suite and the walls of the instructional spaces shall be min. STC-60. Other walls within the suite shall be min. STC-45.
- Sound-rated door should share the same rating as the walls.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- Retractable risers which provide stable platform for portable chairs
- Catwalk around perimeter of room approximately 4' wide
- Drapes hung from catwalk
- Continuous mirrors on one wall from base to 8'-0" AFF
- Additional drapes in front of mirrors
- Operable (raise/lower) pipe grid with power for theatrical lighting
- · Dimmer system for theatrical lights
- Sound system
- All interior finishes to be black
- 1 4'x 12 marker boards
- 2 4'x4' tack boards

Owner Furnished - Contractor Installed

None

Owner Furnished - Owner Installed

- Chairs
- Presentation Cart
- Teacher stool
- Portable ballet barrel(s)
- Electronic white board
- Clock
- 2 lockable double door storage units





STERLING HIGH SCHOOL (DRAFT)

Tall lockable 2-door storage cabinets

Performing Arts

Drama Learning Center –	Black Box Control Booth
USERS:	ACTIVITIES:
Drama/Theater/Vocal/Music	Control of lighting and sound systems,
Directors	Controlling and creating of special effects
Students	Recording, taping and editing of performances
Community	
DESIGN CONSIDERATIONS:	
 Locate adjacent to workroom 	
 Provide operable window to per 	formance space
FURNITURE, FIXTURES & EQUIP	MENT:
Contractor Furnished – Contractor	or Installed
Light board	
Sound board	
4'x4' marker board	
4'x4' tack board	
Owner Furnished – Contractor Installed	
None	
Owner Furnished – Owner Install	ed
2 Chairs	
 30'x60" table 	

STERLING HIGH SCHOOL (DRAFT)



Auditorium

USERS:	ACTIVITIES:
 Drama/Theater/Vocal/Music Directors Students Community 	 Performances (school play, choir, orchestra, dance, etc) Assemblies Graduation Seminars Meetings Other Community Events Seating for audiences attending drama, theater and musical productions
DESIGN CONSIDERATIONS:	

None

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Acoustical treatment
- Fixed, upholstered seats, with retractable tablet arms every other seat
- Seats with movable tablet arms or back mounted flip-up writing surfaces

Owner Furnished – Contractor Installed

None

Owner Furnished – Owner Installed

None





STERLING HIGH SCHOOL (DRAFT)

Tall lockable 2-door storage cabinets

Performing Arts Auditorium – Control Room

Auditorium – Control Room			
USERS:	ACTIVITIES:		
 Drama/Theater/Vocal/Music 	 Control of lighting and sound systems, 		
Directors	 Controlling and creating of special effects 		
 Students 	 Recording, taping and editing of performances 		
 Community 			
DESIGN CONSIDERATIONS:			
 Provide operable glass window 			
FURNITURE, FIXTURES & EQUIPMENT:			
Contractor Furnished – Contract	Contractor Furnished – Contractor Installed		
 Provide acoustical treatment 	Provide acoustical treatment		
4'x4' marker board			
 4'x4' tack board 			
Sound board			
Lighting board			
Owner Furnished – Contractor Installed			
None			
Owner Furnished – Owner Installed			
2 Chairs			
 30'x60" tables 			

STERLING HIGH SCHOOL (DRAFT)



Auditorium – Stage

None

USERS:	ACTIVITIES:
 Drama/Theater Directors Students Community 	 Instrumental, choral and drama presentations by groups and individuals Dance and other physical activity presentations Public and school meetings requiring interaction between those on stage and those seated in the Auditorium Video presentation May be used as a classroom by the drama program Award ceremonies Assemblies
DESIGN CONSIDERATIO	NS:
Do not provide a full fly	loft
FURNITURE, FIXTURES & EQUIPMENT:	
Contractor Furnished – Contractor Installed	
Acoustical treatment	
Motorized projection screen, theatrical lighting and rigging	
Curtains at front, sides and back of stage. Back and side curtains to be black.	
Owner Furnished – Contractor Installed	
• None	
Owner Furnished – Owner	er Installed





STERLING HIGH SCHOOL (DRAFT)

Performing Arts Auditorium – Dressing Room

Chairs

Auditorium – Dressing Room			
USERS:	ACTIVITIES:		
 Drama/Theater Directors 	Changing into costumes		
Students	 Applying makeup for performances 		
Community	Performance preparation		
DESIGN CONSIDERATIONS:			
None			
FURNITURE, FIXTURES & EQ	FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished – Contractor Installed			
Makeup counter continuous on one wall			
Mirrors above makeup counter with lighting			
Full length mirrors			
3-tier locker units			
12 LF of hanging rod			
Owner Furnished – Contractor Installed			
Paper towel dispenser			
Soap dispenser			
Owner Furnished – Owner Installed			



STERLING HIGH SCHOOL (DRAFT)

Performing Arts

None

Auditorium – Dressing Room Restroom

3			
USERS:	ACTIVITIES:		
Theater students	Restroom		
DESIGN CONSIDERATIONS:			
None			
FURNITURE, FIXTURES & EQUIPMENT:			
Contractor Furnished – Cont	Contractor Furnished – Contractor Installed		
Mirrors			
2 high lockers			
Owner Furnished – Contractor Installed			
Paper towel dispenser			
Soap dispenser			
Toilet paper dispenser			
Owner Furnished – Owner Installed			



Lockable storage cabinets with adjustable shelving

STERLING HIGH SCHOOL (DRAFT)

Performing Arts

Lockable tool cabinet

Auditorium – Prop/Costume Storage		
USERS:	ACTIVITIES:	
Drama/Theater	 Building and painting scenery and props 	
Directors	 Set construction, paint and assembly using tools 	
 Students 	 Storing and retrieving props and costumes 	
Community	Creating props and costumes	
DESIGN CONSIDERATIONS	:	
None		
FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished – Contractor Installed		
4'x4' tack board		
4'x4' marker board		
8'x8' pegboard		
Owner Furnished – Contractor Installed		
Paper towel dispenser		
Soap dispenser		
Owner Furnished – Owner Installed		
12 LF work bench		

STERLING HIGH SCHOOL (DRAFT)



USERS:	ACTIVITIES:	
 Drama/Theater Directors 	Storing and retrieving props and costumes	
Students		
Community		
DESIGN CONSIDERATIONS:		
None		
FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished – Contractor Installed		
Maximum LF of heavy-duty adjustable shelving above rods on 3 walls (2/3 of rods double, 1/3 of rods single)		
Owner Furnished – Contractor Installed		
• None		
Owner Furnished – Owner Installed		
Table		
• Chair		
Maximum LF of heavy-duty adjustable shelving on walls beside door		





Heavy duty table in center of room, if room is wide enough

STERLING HIGH SCHOOL (DRAFT)

Performing Arts

Auditorium – Concessions

Auditorium – Concessions			
USERS:	ACTIVITIES:		
Drama/Theater	Selling and serving food items during events		
Directors	Potential use as school store		
Students			
 Community/Volunteers 			
DESIGN CONSIDERATIONS):		
None			
FURNITURE, FIXTURES & EQUIPMENT:			
Contractor Furnished – Cor	Contractor Furnished – Contractor Installed		
 Refrigerator 	Refrigerator		
400 lb. ice maker with bin			
Microwave ovens			
• 2 walls: 24"Dx36"H drawer/open shelf base cabinets with one sink cabinet			
"Dx30"H lockable shelf cabinets above base cabinets			
Transaction counter in front of roll-up window with shelves below counter			
Owner Furnished – Contractor Installed			
Paper towel dispenser			
Soap dispenser			
Owner Furnished – Owner Installed			

STERLING HIGH SCHOOL (DRAFT)

Performing Arts

Auditorium – Ticket Booth

USERS:	ACTIVITIES:	
Drama/Theater Directors	Selling tickets for performances or other events held in	
Students	auditorium	
 Community/Volunteers 		
DESIGN CONSIDERATIONS:		
None		
FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished – Contractor Installed		
Transaction counter in front of roll-up window with shelves below counter		
Owner Furnished – Contractor Installed		
None		
Owner Furnished – Owner Installed		
• Chair		





STERLING HIGH SCHOOL (DRAFT)



PHYSICAL EDUCATION / ATHLETICS



HISD EDUCATIONAL SPECIFICATIONS STERLING HIGH SCHOOL

SEPTEMBER 16, 2013 CONSTRUCTION AND FACILITY SERVICES FACILITIES PLANNING



STERLING HIGH SCHOOL (DRAFT)

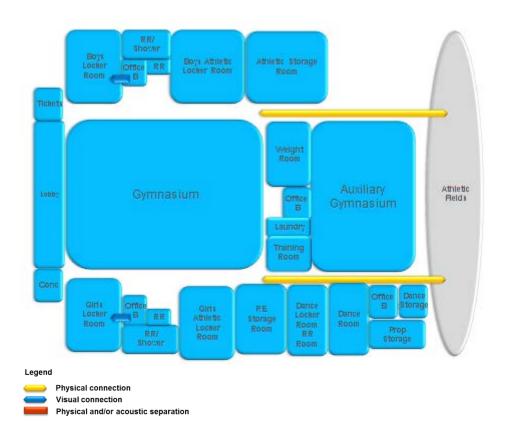
Physical Education/Athletics

Overview:

The mission of HISD's Health and Physical Education programs is to provide a framework of knowledge, practices and skills to positively impact student's health and physical well-being. Health Education focuses on the development of wellness lifestyles by addressing knowledge, attitudes, behaviors and skills for healthy living. Physical Education and Athletic programs focus on personal fitness through participation in leisure and lifetime activity that lead to self-responsibility, teamwork, sportsmanship, and leadership. The following sports are offered in the Athletic program:

- August-November: Boys Football, Girls Volleyball, Girls Team Tennis
- December-March: Boys and Girls Basketball, Tennis, Cross-Country, Golf, Track, Wrestling, Soccer
- March-May: Boys Baseball, Girls Softball

Community use and involvement with the PE/Athletics programs is needed and encouraged through the availability of indoor and outdoor facilities when not being used as part of the school program.



The functional relationships illustrated are diagrammatic only. Further interpretation of these relationships shall be implemented by the Design Team.



STERLING HIGH SCHOOL (DRAFT)

Space Requirements

Physical Education/Athletics	Teaching Station(s)	Quantity	Square Feet	Net Area
PE/Athletics Lobby (Share with Performing Arts?)		1	1,200	1,200
Gymnasium (seating for average program capacity of school)	2	1	13,822	13,822
Auxiliary Gymnasium (seating for 1/4 of program capacity of school)	1	1	8,915	8,915
Weight Room		1	800	800
Boys' Athletic Locker Room		1	1,200	1,200
Girls' Athletic Locker Room		1	800	800
Boys'/Girls' PE Locker Room		2	800	1,600
Toilets/Showers		2	500	1,000
Adult Toilet/Shower/Locker		2	125	250
Athletic Director (Office C)		1	180	180
Office (shared)		2	300	600
Training Room		1	400	400
Laundry		1	150	150
PE Equipment Storage		1	500	500
Athletic Equipment Storage		1	1,000	1,000
Gymnasium, Tickets (Share with Performing Arts?)		1	75	75
Gymnasium, Concessions (Share with Performing Arts?)		1	225	225
Drill Team/Dance Room				
Dance Room	1	1	1,400	1,400
Dance - Prop Storage		1	400	400
Dance - General Storage		1	150	150
Office, Dance Coach		1	120	120
Dance Locker Room		1	600	600
Dance - Toilet Area		1	150	150
Total	4			35,537



STERLING HIGH SCHOOL (DRAFT)

Physical Education/Athletics

Lobby

USERS:	ACTIVITIES:	
Parents	Transition/surge space for events held in Gymnasium	
 Students 	Entering and exiting of events held in Gymnasium	
 Community members 	Event attendee overflow	
 Faculty/staff 	Small sitting area	
	Greeting of attendees for events held in the Gymnasium	
DESIGN CONSIDERATION	S:	
 Consider shared lobby if 	applicable with floor plan	
 Consider including conce 	ession area/stand in lobby	
FURNITURE, FIXTURES &	EQUIPMENT:	
Contractor Furnished – Contractor Installed		
• None		
Owner Furnished – Contractor Installed		
• None		
Owner Furnished – Owner Installed		
• Benches		
Wall mounted video display panels		



OSS DISTORDENT SCHOOL DISTORDE

HISD EDUCATIONAL SPECIFICATIONS

STERLING HIGH SCHOOL (DRAFT)

P.E./Athletics

Gymnasium

USERS:	ACTIVITIES:
PE Teachers/Coaches	Physical education classes and activities
Students	Athletic competitions
 Parents 	Sports: basketball, volleyball, gymnastics, cheerleading,
Community Groups	drill team, wresting, badminton
Staff	Fitness/health presentations
 Sports teams 	School assemblies
	Performances
	Graduation
	Community sports activities/events

DESIGN CONSIDERATIONS:

- Protect all devices and windows from damage by ball strikes
- Wall finish and any acoustic treatments must be capable of sustaining repeated ball strikes

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- 2 glass motorized, height adjustable, retractable backboards
- 4 fiberglass motorized, height adjustable, retractable backboards
- Telescoping bleachers to seat number indicated in space requirements. Provide separation between spectators and playing court with railings.
- Volleyball system to include poles and recessed floor sleeves
- Floor markings for basketball and volleyball
- · Continuous wall pads on end walls
- Motorized curtain to divide gym into 2 teaching areas
- Scoreboard/clock
- Sound system

Owner Furnished – Contractor Installed

None

Owner Furnished - Owner Installed

- 2 30"x60" folding tables
- 6 Chairs



STERLING HIGH SCHOOL (DRAFT)



Auxiliary Gymnasium

US	SERS:	ACTIVITIES:
•	PE Teachers/Coaches	Physical education classes and activities
•	Students	Athletic competitions
•	Parents	Sports: basketball, volleyball, gymnastics, cheerleading, drill
•	Community	team, wrestling, badminton
		Fitness/health presentations
		class assemblies
		 Performances
		Graduation
		Community sports activities/events

DESIGN CONSIDERATIONS:

- Protect all devices and windows from damage by ball strikes
- Wall finish and any acoustic treatments must be capable of sustaining repeated ball strikes

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- 2 glass, motorized, height adjustable, retractable backboards
- 4 fiberglass, motorized, height adjustable, retractable backboards
- Telescoping bleachers to seat number indicated in space requirements
- Volleyball system to include poles and recessed floor sleeves
- Floor markings for basketball and volleyball
- Continuous wall pads on end walls
- Motorized curtain to divide gym into 2 teaching areas
- Scoreboard/clock
- Individual sound system

Owner Furnished – Contractor Installed

None

Owner Furnished – Owner Installed

- 2 30"x60" folding tables
- 6 Chairs





STERLING HIGH SCHOOL (DRAFT)

P.E./Athletics

Weight/Fitness Room

Weight equipment and machines

USERS:	ACTIVITIES:	
 Coaches 	Physical education classes	
Teachers	Weight training for students and staff	
20-32 students	Potential for community use	
DESIGN CONSIDERATIONS:		
Provide interlocking rubber	tile floor over VCT or concrete floor (polished or stained)	
FURNITURE, FIXTURES & EQ	UIPMENT:	
Contractor Furnished – Contr	ractor Installed	
8' marker board with tack strip		
4' tack boards		
Mirrors on one wall		
Interlocking rubber tile floor		
Owner Furnished – Contractor Installed		
Paper towel dispenser		
Sanitizer dispenser		
Owner Furnished – Owner Installed		



STERLING HIGH SCHOOL (DRAFT)



Boys Athletic Locker Room

USERS:	ACTIVITIES:
PE TeachersCoaches	Changing clothes before and after athletic activitiesStoring personal items during classes, practices or
Students	competitions

DESIGN CONSIDERATIONS:

- Design for air flow that will maintain consistent temperature and humidity level.
- Provide clear view for passive supervision (no tall lockers blocking line of sight).

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- 100 large lockers (football)
- 20 double lockers
- Benches
- 4'x4' marker board
- 4'x4' tack board
- Mirrors

Owner Furnished - Contractor Installed

- Paper towel dispenser
- Sanitizer dispenser

Owner Furnished – Owner Installed

None





STERLING HIGH SCHOOL (DRAFT)

P.E./Athletics

None

Girls Athletic Locker Room

Girls Athletic Locker Room			
USERS:	ACTIVITIES:		
PE Teachers	 Changing clothes before and after athletic activities 		
 Coaches 	 Storing personal items during classes, practices or 		
Students	competitions		
DESIGN CONSIDERATIONS:			
 Design for air flow that will r 	naintain consistent temperature and humidity level.		
 Provide clear view for passi 	ve supervision (no tall lockers blocking line of sight).		
FURNITURE, FIXTURES & EQ	UIPMENT:		
Contractor Furnished – Contr	actor Installed		
 50 double lockers 	50 double lockers		
• Benches			
4'x4' marker board			
4'x4' tack board			
• Mirrors			
Owner Furnished – Contractor Installed			
Paper towel dispenser			
Sanitizer dispenser			
Owner Furnished – Owner Installed			

STERLING HIGH SCHOOL (DRAFT)



Boys/Girls P.E. Locker Room

boys/Gills F.E. Locker Room			
USERS:	ACTIVITIES:		
PE Teachers	Changing clothes		
Coaches	 Storing personal items during classes, practices or 		
Students	competitions		
DESIGN CONSIDERATIONS:			
Design for air flow that will	maintain consistent temperature and humidity level		
 Provide clear view for pass 	 Provide clear view for passive supervision (no tall lockers blocking line of sight) 		
FURNITURE, FIXTURES & EQUIPMENT:			
Contractor Furnished – Contractor Installed			
• 75 - 6:1lockers			
• Benches			
4'x4' marker board			
4'x4' tack board			
Mirrors	• Mirrors		
Owner Francisk and Contractor Installed			

- Paper towel dispenser
- Sanitizer dispenser

Owner Furnished – Owner Installed

None



STERLING HIGH SCHOOL (DRAFT)

P.E./Athletics

Student Toilet/Showers

USERS:	ACTIVITIES:		
Students	Restroom and bathing		
DESIGN CONSIDERATIONS:			
None			
FURNITURE, FIXTURES & EQ	UIPMENT:		
Contractor Furnished – Contr	actor Installed		
Mirrors	• Mirrors		
Towel hooks/hangers outside shower area			
Owner Furnished – Contractor Installed			
Paper towel dispensers			
Soap dispensers			
Owner Furnished – Owner Installed			
Shower curtains			



STERLING HIGH SCHOOL (DRAFT)

P.E./Athletics

Adult Toilet/Shower/Locker

USERS:	ACTIVITIES:		
Coaches/Teachers	Restroom and bathing		
DESIGN CONSIDERATIONS:			
None			
FURNITURE, FIXTURES & EQ	UIPMENT:		
Contractor Furnished – Contra	actor Installed		
Mirrors			
2 high lockers	2 high lockers		
Towel hook/hanger outside shower stall			
Owner Furnished – Contractor Installed			
Paper towel dispenser			
Soap dispenser			
Owner Furnished – Owner Installed			
Shower curtain			



STERLING HIGH SCHOOL (DRAFT)

2 4-shelf bookcases, 52"H x 36"W x 15"D 2 4-drawer vertical file, letter size, lockable

P.E./Athletics

Office P

Office B			
USERS:	ACTIVITIES:		
Athletic Director and/or Coaches Students	 Space for Athletic Director, coach and/or teachers to perform administrative tasks Secure storage for electronic equipment Area for filing of athletic program documents 		
DESIGN CONSIDERATIONS:			
None			
FURNITURE, FIXTURES & EQ	UIPMENT:		
Contractor Furnished – Contr	actor Installed		
Blinds on windows	Blinds on windows		
 4'x4' marker board 	 4'x4' marker board 		
4'x4' tack board			
Owner Furnished – Contractor Installed			
None			
Owner Furnished – Owner Installed			
Double pedestal desk with center drawer & lock, 60" x 30"			
Credenza			
Task chair			
2 Guest chairs			
36" conference table	36" conference table		

STERLING HIGH SCHOOL (DRAFT)



Office (Shared)

USERS:	ACTIVITIES:
Coaches/TeachersStudents	 Coach and teacher administrative tasks Changing clothes before and after physical education activities Storing personal items
DEGLON CONCIDED ATION	

DESIGN CONSIDERATIONS:

None

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- 4'x4' marker board
- 4'x4' tack board

Owner Furnished – Contractor Installed

None

Owner Furnished - Owner Installed

- 2 Double pedestal desks with center drawer & lock, 60" x 30"
- 2 Task chairs, swivel, tilt, armless
- 4 Guest chairs
- 2 4-shelf bookcase, 52"H x 36"W x 15"D
- 2 4-drawer vertical file, letter size, lockable





STERLING HIGH SCHOOL (DRAFT)

P.E./Athletics

Training Room

USERS:	ACTIVITIES:
Trainer	Administering First Aid
 Student assistants 	Taping of student athletes before/after athletic competitions
 Coaches 	Administering physical therapy
PE students	Training supply and equipment storage
Student athletes	

DESIGN CONSIDERATIONS:

• None

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- 4'x4' marker board
- 4'x4' tack board
- 8 LF casework with countertop, sink cabinet, drawer/door base cabinets, shelf/door wall cabinets
- 2 Hydrotherapy whirlpool(s)
- Whirlpool bench
- Floor drain

Owner Furnished – Contractor Installed

- Paper towel dispenser
- Soap dispenser
- Sanitizer dispenser
- Small ice machine in accordance with Design Guidelines

Owner Furnished – Owner Installed

- Microwave for heating pads
- Scale
- Exercise bicycle
- Taping table (36"Dx36"H) with drawer door cabinets below.

STERLING HIGH SCHOOL (DRAFT)



Laundry

PE Teachers/Coaches Laundering of athletic team	uniforms
Staff Laundering of cheerleading	uniforms

DESIGN CONSIDERATIONS:

- Floor drain
- Floor sloped towards drain
- Exhaust to the exterior
- Emergency water shutoff valve

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- 8 LF of hanging rod (commercial grade)
- Commercial washer and dryer
- Wall mounted adjustable shelves
- Washer and dryer hook ups in the Laundry Room
- Single, deep utility sink

Owner Furnished – Contractor Installed

- Paper towel dispenser
- Soap dispenser

Owner Furnished - Owner Installed

- 30"x 60" table
- 36"W tall shelf unit 24"D





STERLING HIGH SCHOOL (DRAFT)

P.E./Athletics

P.E. Equipment Storage

r.L. Equipment Storage	
USERS:	ACTIVITIES:
PE Teachers/Coaches	Storing and retrieving equipment used for physical
 Students 	education classes
DESIGN CONSIDERATIONS:	
Floors need to be level and transition strip should be low profile to allow for easy	
movement of heavy equipment on carts.	
FURNITURE, FIXTURES & EQUIPMENT:	
Contractor Furnished – Contractor Installed	
None	
Owner Furnished – Contractor Installed	
None	
Owner Furnished – Owner Installed	
 Heavy-duty adjustable shelving on 3 walls. Lower shelf 24"D. Upper shelves to ceiling 	

- Heavy-duty adjustable shelving on 3 walls. Lower shelf 24"D. Upper shelves to ceiling 18"D. Locate bottom shelf on 2 walls 48" AFF for ball carts and mats.
- Provide pegboard on 1 wall for hanging jump ropes, hula hoops, etc.

STERLING HIGH SCHOOL (DRAFT)



Athletic Equipment Storage

A tamotro = quipinont otto	
USERS:	ACTIVITIES:
Coaches/Teachers	Storing and retrieving equipment used for athletic programs
 Students 	
DESIGN CONSIDERATIONS:	
Floors need to be level and	transition strip should be low profile to allow for easy movement
of heavy equipment on cart	S
 Provide exterior access 4-0 	'door.
FURNITURE, FIXTURES & EQ	UIPMENT:
Contractor Furnished – Contr	actor Installed
4'x4' marker board	
 4'x4' tack board 	
 Provide lockable cages to s 	secure team equipment and uniforms
Owner Furnished – Contracto	or Installed
None	
Owner Furnished – Owner Ins	stalled
 36"Wx60"H heavy-duty, adj 	ustable shelf unit in each cage

Heavy-duty adjustable 18" shelving on walls beside door



Heavy duty table in center of room, if room is wide enough

STERLING HIGH SCHOOL (DRAFT)

P.E./Athletics

Gymnasium - Concessions

Gymnasium – Concessions		
USERS:	ACTIVITIES:	
 Athletics Department 	 Selling tickets for games or other events held in 	
 Students 	gymnasium	
 Community/Volunteers 	 Selling and serving food items during events 	
	 Potential use as school store 	
DESIGN CONSIDERATIONS:		
None	None	
FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished – Contr	actor Installed	
Refrigerator		
400 lb. ice maker with bin		
Microwave ovens		
2 walls: 24"Dx36"H drawer/open shelf base cabinets with one sink cabinet		
"Dx30"H lockable shelf cabinets above base cabinets		
Transaction counter in front of roll-up window with shelves below counter		
Owner Furnished – Contractor Installed		
Paper towel dispenser		
Soap dispenser		
Owner Furnished – Owner Installed		

STERLING HIGH SCHOOL (DRAFT)



Auditorium – Ticket Booth

USERS:	ACTIVITIES:
Drama/Theater Directors Students	Selling tickets for performances or other events held in auditorium
Community/Volunteers Consumer ATIONS:	
DESIGN CONSIDERATIONS:	
None	
FURNITURE, FIXTURES & EQUIPMENT:	
Contractor Furnished – Contractor Installed	
Transaction counter in front of roll-up window with shelves below counter	
Owner Furnished – Contractor Installed	
None	
Owner Furnished – Owner Installed	
• Chair	





STERLING HIGH SCHOOL (DRAFT)

P.E./Athletics

Drill Team/Dance Room

USERS:	ACTIVITIES:
Dance/Drill Team	Dance and Drill Team practice and performances
Instructors	•
Athletics Department	
Students	
DESIGN CONSIDERATIONS:	
None	
FURNITURE, FIXTURES & EQUIPMENT:	
Contractor Furnished – Contractor Installed	
None	
Owner Furnished – Contractor Installed	
None	
Owner Furnished – Owner Installed	
None	



STERLING HIGH SCHOOL (DRAFT)



None

Drill Team/Dance Room - Locker Room

USERS:	ACTIVITIES:
Dance/Drill Team InstructorsStudents	 Changing clothes for dance and physical education activities Storing personal items during classes, practices or competitions
DESIGN CONSIDERATIONS:	
• None	
FURNITURE, FIXTURES & E	QUIPMENT:
Contractor Furnished – Con	tractor Installed
 Maximum number of lockers that can fit in layout: half of lockers to be 6:1; half of lockers to be 2:1 Benches 	
4'x4' marker board	
4'x4' tack board	
Mirrors above sinks	
Owner Furnished – Contract	or Installed
 Paper towel dispenser 	
 Soap dispenser 	
Owner Furnished – Owner Ir	nstalled





STERLING HIGH SCHOOL (DRAFT)

P.E./Athletics

None

Drill Team/Dance Room - Toilet Area

Dilli Teath/Dance Room Tollet / Tea			
USERS:	ACTIVITIES:		
Students	Restroom activities		
DESIGN CONSIDERATIONS):		
None			
FURNITURE, FIXTURES & E	EQUIPMENT:		
Contractor Furnished – Cor	Contractor Furnished – Contractor Installed		
Mirrors above sinks			
Owner Furnished – Contractor Installed			
Paper towel dispenser			
Soap dispenser			
Toilet paper dispenser			
Owner Furnished – Owner Installed			
_	·		

STERLING HIGH SCHOOL (DRAFT)



Drill Team/Dance Room - Coaches Office

Dim Todin, Danco 1100	Codonico Cinico		
USERS:	ACTIVITIES:		
Dance/Drill Team	Completing coach and teacher administrative tasks		
Instructors	 Storing of personal items before and after drill/dance class, 		
Students	practice or competitions		
DESIGN CONSIDERATIONS:			
• None			
FURNITURE, FIXTURES & E	QUIPMENT:		
Contractor Furnished – Con	tractor Installed		
 4'x4' marker board 	4'x4' marker board		
4'x4' tack board			
Owner Furnished – Contractor Installed			
None			
Owner Furnished – Owner Ir	stalled		
 Double pedestal desk with center drawer & lock, 60" x 30" 			
Task chair, swivel, tilt			
4-shelf bookcase, 52"H x 3	4-shelf bookcase, 52"H x 36"W x 15"D		
4-drawer vertical file, letter size, lockable			





STERLING HIGH SCHOOL (DRAFT)

P.E./Athletics

Drill Team/Dance Room - Prop Storage

	1 0		
USERS:	ACTIVITIES:		
Dance/Drill Team	Storing and retrieving equipment used for drill and dance		
Instructors	team activities		
 Students 			
DESIGN CONSIDERATIONS):		
None			
FURNITURE, FIXTURES & E	QUIPMENT:		
Contractor Furnished – Cor	Contractor Furnished – Contractor Installed		
Provide 2 lockable cages	Provide 2 lockable cages to secure team equipment and uniforms		
Heavy-duty adjustable shelving on 2 walls			
Owner Furnished – Contractor Installed			
• None			
Owner Furnished – Owner Installed			
36"Wx60"H heavy-duty, a	36"Wx60"H heavy-duty, adjustable shelf unit in each cage		
1	 Heavy-duty adjustable 18" shelving on walls beside door 		

STERLING HIGH SCHOOL (DRAFT)



Drill Team/Dance Room - General Storage

JSERS: ACTIVITIES:			
Dance/Drill Team InstructorsStudents	 Storing and retrieving equipment used for drill and dance team activities Storing and retrieving equipment used for P.E. dance classes 		
DESIGN CONSIDERATIONS:			
None			
FURNITURE, FIXTURES & E	QUIPMENT:		
Contractor Furnished – Contractor Installed			
• None			
Owner Furnished – Contractor Installed			
None			
Owner Furnished – Owner Installed			
 Heavy-duty adjustable she 	Heavy-duty adjustable shelving on 3 walls		





STERLING HIGH SCHOOL (DRAFT)



JROTC



HISD EDUCATIONAL SPECIFICATIONS STERLING HIGH SCHOOL – SEPTEMBER 16, 2013





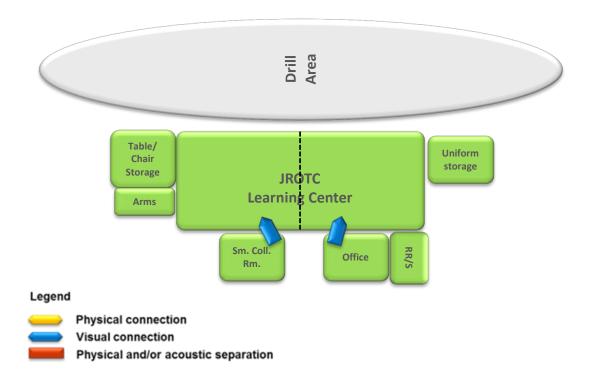
STERLING HIGH SCHOOL (DRAFT)



Overview:

HISD offers the Junior Reserve Officer Training Corps (JROTC) program at the high school level. JROTC builds self-discipline, teamwork, motivation, and confidence in young people, and provides students with the opportunity to learn about career opportunities in the Armed Forces of the United States. High schools which elect to do so will provide adequate space and facilities to support the JROTC curriculum in accordance with established standards and guidelines.

The program must have access to adequate drill facilities (PE gym space) and outside paved space 100' x 100' (Basketball court) with perimeter striping for inspections, physical training and practice space for competitive drill teams.



The functional relationships illustrated are diagrammatic only. Further interpretation of these relationships shall be implemented by the Design Team.





STERLING HIGH SCHOOL (DRAFT)

Space Requirements

Junior ROTC (Navy)	Teaching Station(s)	Quantity	Square Feet	Net Area
JROTC Learning Center (Large)	1	1	1,150	1,150
JROTC Learning Center (Small)	1	1	850	850
JROTC Arms/Weapons Storage		1	30	30
JROTC Uniform/Drill Team/Color Guard Storage		1	320	320
JROT C Chair/T able/T arget Storage		1	400	400
JROTC Small Group Collaboration		1	120	120
JROTC Instructors Center		1	150	150
Adult Toilet/Shower/Locker		1	100	100
Tota	2			3,120

STERLING HIGH SCHOOL (DRAFT)

Junior ROTC

Learning Center/Air Rifle Range

 USERS: Students Teachers Volunteers/Mentors Marksmanship Teams Lecturing Instruction on marching, physical training, and gun drills. Practice for these activities will take place in the Gym and practice fields Watching videos Target practice 	•	
 Teachers Volunteers/Mentors Marksmanship Teams Instruction on marching, physical training, and gun drills. Practice for these activities will take place in the Gym and practice fields Watching videos 	USERS:	ACTIVITIES:
	TeachersVolunteers/Mentors	 Instruction on marching, physical training, and gun drills. Practice for these activities will take place in the Gym and practice fields Watching videos

DESIGN CONSIDERATIONS:

- Provide operable partition dividing the space into one large (1,150 s.f.) and one small (850 s.f.) learning spaces
- The overall length of the space with the partition fully open should be a minimum of 60 feet to allow for it to be used as the air rifle range
- Second partition sealing target area off from learning center
- Permanently delineate eight 48" wide shooting lanes through the use of variation in the floor finish/color/pattern.
- Focused high intensity lighting is required at the target end of one of the Learning Centers.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- Blinds for windows
- Presentation Wall in each half of Learning Center:
 - 1 4'x4' Tack Board
 - 1 − 8'x4' Marker Board
 - Tack Strips located 12" above marker/tack boards
 - 2 flag holders and map hooks
- Adjacent or Rear Wall of each half of Learning Center:
 - 2 4'x4' Tack Boards (one on each side of 8'x4' Marker Board)
 - 1 8'x4' Marker Board

Owner Furnished – Contractor Installed

None

- 2 Presentation Carts
- 2 Teacher stools
- 32 2-person tables with folding legs
- 64 stackable chairs
- Dolly for chairs
- Dolly for tables
- Targets and ammunition catch boxes
- 4 4-drawer lockable filing cabinets
- 4 tall storage cabinets with adjustable shelving
- 6 bookcases (height may be dependent on window sill height), with adjustable shelving
- 2 Electronic Whiteboards mounted on presentation wall adjacent to and at same height as marker board
- 2 Clocks





STERLING HIGH SCHOOL (DRAFT)

Junior ROTC

Office (Shared) - Instructors Center

USERS:	ACTIVITIES:
 Instructional staff 	Preparing program plans
Cadet officer leadership	Preparing reports
	Teacher supply storage
	Researching
	Meeting
DECION CONCIDED ATIONS:	

DESIGN CONSIDERATIONS:

View to Learning Center

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- 4'x4' marker board
- 4'x4' tack board

Owner Furnished – Contractor Installed

None

- 3 sets Modular open office systems furniture with keyed over desk storage and file drawers, each set separately keyed to a master.
- 3 Tilt swivel desk chairs on casters
- 3 guest chairs
- Bookcase

STERLING HIGH SCHOOL (DRAFT)



Uniform and Supply Storage

US	SERS:	ACTIVITIES:
•	Instructional Staff	Storing materials, uniforms and books used in JROTC
•	Students	instruction

DESIGN CONSIDERATIONS:

Adjacent to JROTC office with easy access to JROTC Learning Center

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Maximum linear feet of 2 high hanging rods with shelf above on 2 walls (200 uniforms, 120 pairs of shoes)
- 2 duplex outlets on each wall
- Hollow metal door

Owner Furnished – Contractor Installed

None

Owner Furnished – Owner Installed

- Maximum linear feet of heavy duty adjustable shelving on one wall
- Lockable storage cabinets
- Filing cabinets

:





STERLING HIGH SCHOOL (DRAFT)

Junior ROTC

Arms/Weapons Storage

USERS:	ACTIVITIES:		
Instructional Staff	 Storing weapons, targets and ammunition used in JROTC instruction Storing chairs and tables from learning center when it is being used as a firing range 		
DESIGN CONSIDERATIONS:			
Connected (preferred) or a	djacent to JROTC office		
FURNITURE, FIXTURES & EC	FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished – Cont	Contractor Furnished – Contractor Installed		
• None			
Owner Furnished – Contractor Installed			
None			
Owner Furnished – Owner Installed			
 Locking arms rack (approximately 2'x2' square) to store 55 weapons 			
Metal adjustable shelving for storage of ammunition, supplies, etc.			



STERLING HIGH SCHOOL (DRAFT)

Junior ROTC

Adult Toilet/Shower/Locker

USERS: ACTIVITIES:			
Coaches/Teachers	Restroom and bathing		
DESIGN CONSIDERATIONS:			
Adjacent to Instructor's offi	ce		
FURNITURE, FIXTURES & EQ	QUIPMENT:		
Contractor Furnished – Cont	ractor Installed		
 Mirrors 	• Mirrors		
2 high lockers			
Owner Furnished – Contractor Installed			
Paper towel dispenser			
Soap dispenser			
Owner Furnished – Owner Installed			
Shower curtain			





STERLING HIGH SCHOOL (DRAFT)

JROTC

Cadet Small Group Collaboration

USERS:	ACTIVITIES:		
6-8 Cadets	Preparing reports		
Cadet Leadership	Research		
	Small Group Instruction		
DESIGN CONSIDERATIONS	,		
View to Learning Center a	and Instructor Work Center		
FURNITURE, FIXTURES & E	EQUIPMENT:		
Contractor Furnished – Cor	ntractor Installed		
 4'x4' marker board 	4'x4' marker board		
 4'x4' tack board 			
Owner Furnished – Contractor Installed			
• None			
Owner Furnished – Owner Installed			
 modular open office systems furniture with open over desk storage 			
8 - Tilt swivel desk chairs	8 - Tilt swivel desk chairs on casters		
 tall storage cabinet 	tall storage cabinet		
• bookcase			

STERLING HIGH SCHOOL (DRAFT)

Junior ROTC

Chair/Table/Target Storage

Chail/ Table/ Target Stor	age		
USERS:	ACTIVITIES:		
Instructional StaffStudents	Storing materials, targets and, tables and chairs while facility is converted into firing range		
DESIGN CONSIDERATIONS:			
Adjacent to JROTC office with easy access to JROTC Learning Center			
FURNITURE, FIXTURES & EQUIPMENT:			
Contractor Furnished – Contractor Installed			
 Maximum linear feet of 2 hig pairs of shoes) 2 - duplex outlets on each w Hollow metal door 	h hanging rods with shelf above on 2 walls (200 uniforms, 120 all		

Owner Furnished – Contractor Installed

None

- Maximum linear feet of heavy duty adjustable shelving on one wall
- Lockable storage cabinets
- Filing cabinets





STERLING HIGH SCHOOL (DRAFT)

JROTC

Uniform/Drill Team/Color Guard Storage

l	JSERS:	ACTIVITIES:
•	Instructional Staff	Storing materials, uniforms and books used in JROTC
•	Students	programs

DESIGN CONSIDERATIONS:

- Adjacent to JROTC Instructors Office Center with easy access to JROTC Learning Center
- Provide sufficient space for three cadets to try on uniforms.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- 32 linear feet of 2 high hanging rods with shelf above for long term storage.
- 2 duplex outlets on each wall
- Hollow metal door

Owner Furnished – Contractor Installed

None

- Maximum linear feet of heavy duty adjustable shelving on one wall for shoe, cap, and helmet storage
- 4 Lockable storage cabinets





ADMINISTRATION / GUIDANCE



HISD EDUCATIONAL SPECIFICATIONS STERLING HIGH SCHOOL

SEPTEMBER 16, 2013 CONSTRUCTION AND FACILITY SERVICES FACILITIES PLANNING



STERLING HIGH SCHOOL (DRAFT)

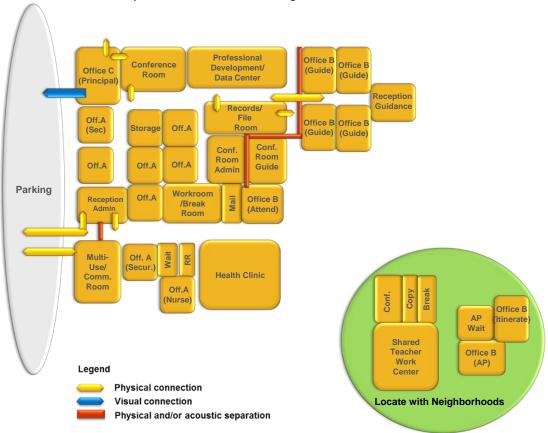
Administration/Guidance

Overview:

These facilities are most community member's first introduction to the School. As such, they must not only be inviting, professional and businesslike but also serve as the secure checkpoint prior to visitors entering the school. The Administration/Guidance facilities should:

- Meet the state and federal requirements
- Provide a secure entrance
- Provide privacy for confidential discussions
- · Store student and financial records
- Serve as the communications hub of the school
- Provide a readily accessible location for the School Clinic
- Provide spaces for receiving and distributing incoming mail and packages

The entrance to the Administration suite shall be located adjacent to the front door of the school. It should be located adjacent to but separate from Guidance. Guidance should be readily accessible to Students and easy to find by Parents but should not be perceived as being part of Administration. Satellite Administration and Guidance offices should be located adjacent to the various neighborhoods.



The functional relationships illustrated are diagrammatic only. Further interpretation of these relationships shall be implemented by the Design Team.





STERLING HIGH SCHOOL (DRAFT)

Space Requirements

Administration/Guidance	Teaching Station	Qty	SF	Net Area
Administration				
Reception, Administration		1	500	500
Office A		3	100	300
Office C (Principal)		1	250	250
Principal's Restroom		1	50	50
Office B (AP)		2	125	250
AP Reception/Waiting		2	100	200
Conference Room, Main		1	250	250
Conference Room, Small		1	150	150
Storage		1	200	200
Health Clinic		1	500	500
Reception/Waiting		1	75	75
Office A		1	100	100
Restroom		1	65	65
Guidance/Student Services				
Reception, Guidance		1	200	200
Office B (Attendance, Registrar, Counselor)		5	125	625
Conference Room, Small		1	150	150
Records/File Room		1	200	200
Administration/Guidance Workroom/Break Room		1	300	300
Shared				
Professional Development/Data Center		1	300	300
Office B (Itinerant)		3	125	375
Teacher Work Center		4	1,000	4,000
Multi-use/Community Room		1	900	900
Storage		1	200	200
New Mother's Room		1	50	50
Total	0			10,190



STERLING HIGH SCHOOL (DRAFT)

Administration/Guidance

Reception, Administration

USERS:	ACTIVITIES:
ParentsStudentsCommunity membersFaculty/staff	 Greeting and welcoming people and directing them to the proper location or person Waiting/seating area for visitors, students, and staff members Controlling entrance to the school
DECION CONCIDED ATIONS	

DESIGN CONSIDERATIONS:

- All visitors must pass through reception to enter school
- Establish Aviation theme and focus at entrance with lots of glass for visibility.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

None

Owner Furnished – Contractor Installed

None

- Modular reception desk with work stations to include:
 - 30"D x 30'H x 10-12 LF work surface (section with reduced height for greeting children/ADA compliance).
 - Half of the reception desk should have a transaction counter 1'D x 42"H with a maximum of 6" overlapping work surface
 - Rear work surface 30"D x 30"H
- Work surfaces should have lockable built-in storage below including a combination of 6"D and file drawers (at least 4) as well as cabinets with adjustable shelving2 Task chairs
- Guest chairs
- Side tables
- Video Display





STERLING HIGH SCHOOL (DRAFT)

Administration/Guidance

Office A

Offico / C	
USERS:	ACTIVITIES:
 Staff/Faculty 	Assisting in administrative record keeping
 Clerical Support Staff 	 Preparation of correspondence, reports and other
 Students 	administrative tasks
 Parents 	Private conferences
DESIGN CONSIDERATIONS):
• None	
FURNITURE, FIXTURES & E	QUIPMENT:
Contractor Furnished - Cor	ntractor Installed
Blinds on windows	
 4'x4' marker board 	
 4'x4' tack board 	
Owner Furnished - Contrac	tor Installed
• None	

None

- Owner Furnished Owner Installed
- Double pedestal desk with center drawer & lock, 60" x 30"
- Task chair
- 2 guest chairs
- 4-shelf bookcase, 52"H x 36"W x 15"D
- 4-drawer vertical file, letter size, lockable

STERLING HIGH SCHOOL (DRAFT)

Administration/Guidance

Office C (Principal)

USERS:	ACTIVITIES:
Principal	Conducting administrative duties
Students	Preparing correspondence and reports
Parents	Meeting with parents, students and other visitors
	Placing phone calls

DESIGN CONSIDERATIONS:

- Locate with view to school entry drive.
- Locate so Principal can leave Administration Suite without being seen from reception.
- Should have direct access to large conference room

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Blinds on windows
- 4'x4' marker board
- 4'x4' tack board

Owner Furnished - Contractor Installed

None

- Double pedestal desk with center drawer & lock, 60" x 30"
- Credenza
- Task chair
- 4 guest chairs
- 48" conference table
- Video Display
- 2 4-shelf bookcases, 52"H x 36"W x 15"D
- 4-drawer vertical file, letter size, lockable





STERLING HIGH SCHOOL (DRAFT)

Administration/Guidance

Restroom - Office C (Principal)

Owner Furnished – Owner Installed

None

Restroom - Office C (Fillicipal)			
ACTIVITIES:			
Restroom			
DESIGN CONSIDERATIONS:			
rincipal's office			
FURNITURE, FIXTURES & EQUIPMENT:			
Contractor Furnished – Contractor Installed			
Mirrors			
2 high lockers			
Owner Furnished – Contractor Installed			
Paper towel dispenser			
Soap dispenser			
Toilet paper dispenser			

STERLING HIGH SCHOOL (DRAFT)



Office B (AP)

USERS:	ACTIVITIES:	
Staff	Conducting administrative tasks	
 Teachers 	Preparing correspondence and reports	
 Assistant Principal 	Creating and documenting new and existing students	
 Students 	Meeting with parents, students and other visitors	
 Parents 	Placing phone cards	
DECICAL CONCIDED ATIONS.		

DESIGN CONSIDERATIONS:

Locate with neighborhoods

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Blinds on windows
- 4'x4' marker board
- 4'x4' tack board

Owner Furnished – Contractor Installed

None

- Double pedestal desk with center drawer & lock, 60" x 30"
- Task chair
- 4 guest chairs
- 36" conference table
- 4-shelf bookcase, 52"H x 36"W x 15"D
- 4-drawer vertical file, letter size, lockable





STERLING HIGH SCHOOL (DRAFT)

Administration/Guidance

AP Waiting

USERS:	ACTIVITIES:
ParentsStudentsCommunity members	 Greeting and welcoming people Waiting/seating area for visitors, students, and staff members
Faculty/staff	moniboro

DESIGN CONSIDERATIONS:

- Should be located adjacent to Neighborhoods
- Open area with lots of glass

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

None

Owner Furnished - Contractor Installed

None

- Modular reception desk with work stations to include:
 - o 30"D x 30'H x 10-12 LF work surface (section with reduced height for greeting children/ADA compliance).
 - Half of the reception desk should have a transaction counter 1'D x 42"H with a maximum of 6" overlapping work surface
 - o Rear work surface 30"D x 30"H
- Work surfaces should have lockable built-in storage below including a combination of 6"D
 and file drawers (at least 4) as well as cabinets with adjustable shelving2 Task chairs
- Guest chairs
- Side tables



STERLING HIGH SCHOOL (DRAFT)

Administration/Guidance

Conference Room, Main

USERS:	ACTIVITIES:	
Principal	Meetings/Conferences between Faculty/Staff and Students,	
Staff/Faculty	Parents and Community	
 Parents/Students 		
School Support Groups		
(PTO, etc.)		
DESIGN CONSIDERATIONS:		
Provide direct access from Principal's Office and secondary corridor.		
Make open environment with at least half of room glass		
FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished – Contractor Installed		
Blinds on windows		
Marker and tack board in cabinet		
Owner Furnished – Contractor Installed		
• None		
Owner Francisk and Owner Inc	tallad	

- Owner Furnished Owner Installed
- Credenza
- Conference table for 12 people
- 12 Swivel, tilt armchairs
- Television and/or electronic whiteboard



STERLING HIGH SCHOOL (DRAFT)

Administration/Guidance

Television and/or electronic whiteboard

Conference Room, Small

Conference Room, Small			
USERS:	ACTIVITIES:		
Staff/Faculty	Meetings/Conferences between Faculty/Staff and		
Parents	Students, Parents and Community		
School Support Groups			
(PTO, etc.)			
DESIGN CONSIDERATIONS:			
	mity to 3 or 4 office space areas		
FURNITURE, FIXTURES & EC			
Contractor Furnished – Cont	tractor Installed		
Blinds on windows	Blinds on windows		
Marker and tack board in cabinet			
Owner Furnished – Contractor Installed			
• None			
Owner Furnished – Owner Installed			
Credenza			
Conference table for 6 people			
6 Swivel, tilt armchairs			

STERLING HIGH SCHOOL (DRAFT)

Administration/Guidance

Storage Room

USERS:	ACTIVITIES:
Guidance Clerk	Storing office supplies
 Counselors 	Storing educational materials
 Administrators' 	
Office Staff	
DESIGN CONSIDERATIONS:	
None	
FURNITURE, FIXTURES & EQUIPMENT:	
Contractor Furnished – Contractor Installed	
None	
Owner Furnished – Contractor Installed	
None	
Owner Furnished – Owner Installed	
Maximum LF of heavy duty adjustable shelving	





STERLING HIGH SCHOOL (DRAFT)

Administration/Guidance

Office A (Security Office)

USERS:	ACTIVITIES:
Security Officer	Administrative tasks
Staff/Faculty	Preparing correspondence and reports
Students	Creating and documenting safety and security matters
Parents	Meeting with parents, students and other visitors
DECICAL CONCIDED ATIONS	

DESIGN CONSIDERATIONS:

- Locate near main entrance with full access and visibility to Lobby
- If possible, provide access to an exit that allows for discrete exiting of the facility

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Blinds on windows
- 4'x4' marker board
- 4'x4' tack board

Owner Furnished - Contractor Installed

None

- Double pedestal desk with center drawer & lock, 60" x 30"
- Task chair
- 2 guest chairs
- 4-shelf bookcase, 52"H x 36"W x 15"D
- 4-drawer vertical file, letter size, lockable



STERLING HIGH SCHOOL (DRAFT)

Administration/Guidance

Health Clinic - Reception/Waiting

USERS:	ACTIVITIES:
School nurse	Waiting area for visitors, students, and staff members
Staff	
Students	
 Parents 	
 Visitors 	
DESIGN CONSIDERATIONS:	
Visual connection between Nurses' Office and Waiting	
FURNITURE, FIXTURES & EQUIPMENT:	
Contractor Furnished – Contractor Installed	
None	
Owner Furnished – Contractor Installed	
None	
Owner Furnished – Owner Installed	
4 guest chairs	
Literature racks	





STERLING HIGH SCHOOL (DRAFT)

Medical sharps waste disposal

2 guest chairs Defibrillator

Administration/Guidance

Health Clinic

Health Clinic		
USERS:	ACTIVITIES:	
School nurse	Treating ill or hurt students	
Staff	Conducting medical exams/screening	
Students	Dispensing medications	
Parents	Waiting area for ill students prior to being picked up	
DESIGN CONSIDERATIONS:		
Visual connection between Nurses' Office and Clinic		
FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished – Contractor Installed		
Blinds on all windows		
Sink cabinet with single deep sink		
4 LF of Drawer/door cabinets – lockable		
6 LF Door/shelf wall cabinets		
Owner Furnished – Contractor Installed		
Paper towel dispenser		
Soap dispenser		
Owner Furnished – Owner Installed		
Cot/exam table		
Adjustable height stool		
Locking refrigerator with ice maker		
Biohazard disposable can		

STERLING HIGH SCHOOL (DRAFT)



Health Clinic - Office A

USERS:	ACTIVITIES:
School nurseStaffStudentsParentsVisitors	 Consultation by nurse with students, parents and staff Record-keeping and paperwork Working with student health files
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DESIGN CONSIDERATIONS:

• Visual connection between Nurses' Office and Waiting

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Blinds on windows
- 4'x4' marker board
- 4'x4' tack board

Owner Furnished – Contractor Installed

- File cabinet
- Literature rack

- Double pedestal desk with center drawer & lock, 60" x 30"
- Credenza
- Task chair
- 2 guest chairs
- 4-shelf bookcases, 52"H x 36"W x 15"D
- 4-drawer vertical file, letter size, lockable





STERLING HIGH SCHOOL (DRAFT)

Administration/Guidance

Health Clinic - Restroom

None

Health Clinic - Nestroom		
USERS:	ACTIVITIES:	
Staff	Restroom activities	
 Students 	Hand Washing	
Faculty	Personal hygiene	
 Visitors 		
DESIGN CONSIDERATIONS:		
None	• None	
FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished – Contractor Installed		
Mirror	Mirror	
Toilet paper dispenser	Toilet paper dispenser	
Toilet seat cover dispenser		
Coat hook		
Owner Furnished – Contractor Installed		
Paper towel dispenser		
Soap dispenser		
Toilet paper dispenser		
Owner Furnished – Owner Installed		

STERLING HIGH SCHOOL (DRAFT)



Reception, Guidance

USERS:	ACTIVITIES:
ParentsStudentsCommunity membersFaculty/staff	 Greeting and welcoming people and directing them to the proper location or person Waiting/seating area for visitors, students, and staff members
DECION CONCIDED ATIONS	

DESIGN CONSIDERATIONS:

None

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

None

Owner Furnished – Contractor Installed

None

- Task chairs
- Modular reception desk with work station to include:
 - o 30"D x 30'H x 4-6 LF work surface (section with reduced height for greeting children)
 - o Include a transaction counter 1'D x 42"H with a maximum of 6" overlapping work surface
 - o Rear work surface 30"D x 30"H
- Work surface should have lockable built-in storage below including a combination of 6"D and file drawers (at least 4) as well as cabinets with adjustable shelving





STERLING HIGH SCHOOL (DRAFT)

Administration/Guidance

Office B (Attendance, Registrar, Officer)

USERS:	ACTIVITIES:
Attendance Clerk,	Administrative tasks
Registrar, Officer	Preparation of correspondence and reports
Staff	Creating and documenting new and existing students
Students	Meeting with parents, students and other visitors
Parents	

DESIGN CONSIDERATIONS:

 Consider use of large open room with office cubicle configuration that is conducive to staff collaboration

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Blinds on windows
- 4'x4' marker board
- 4'x4' tack board

Owner Furnished - Contractor Installed

None

- Double pedestal desk with center drawer & lock, 60" x 30"
- Task chair
- 2 Guest chairs
- 4-shelf bookcase, 52"H x 36"W x 15"D
- 4-drawer vertical file, letter size, lockable

STERLING HIGH SCHOOL (DRAFT)

Administration/Guidance

Conference Room, Small - Guidance/Student Services

•	
USERS:	ACTIVITIES:
Staff/Faculty	Meetings/Conferences between Faculty/Staff and Students,
 Parents 	Parents and Community
 Visitors 	
DESIGN CONSIDERATIONS:	
None	
FURNITURE, FIXTURES & EQ	UIPMENT:
Contractor Furnished – Contra	actor Installed
Blinds on windows	
Marker and tack board in cabinet	
Owner Furnished – Contractor	r Installed
• None	
Owner Furnished – Owner Installed	
Credenza	
Conference table for 6 people	
6 Swivel, tilt armchairs	





STERLING HIGH SCHOOL (DRAFT)

Administration/Guidance

Records/File Room

USERS:	ACTIVITIES:
Guidance Clerk	Storing and retrieving student records
 Counselors 	
 Administrators 	
DECICAL CONCIDED ATIONS.	

DESIGN CONSIDERATIONS:

• Room should be treated as a 1 hour fire-rated enclosure.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- 4'x4' marker board
- 4'x4' tack board
- Maximum LF of heavy-duty, adjustable, wall-mounted shelving above filing cabinets for additional storage

Owner Furnished - Contractor Installed

None

- 24"x36" table
- 2-door lockable storage cabinet
- Side chair
- 10 5-drawer vertical file cabinets



STERLING HIGH SCHOOL (DRAFT)

Administration/Guidance

Mail Pick Up

USERS:	ACTIVITIES:	
Faculty	Picking up mail	
Staff	Reading notices	
	Dropping off mail	
DESIGN CONSIDERATIONS:		
Provide in/out doors off of se	econdary corridor.	
 Mailboxes provide separation between this space and workroom/break room. 		
FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished – Contractor Installed		
4'x8' tack board		
Owner Furnished – Contractor Installed		
None		
Owner Furnished – Owner Installed		
None		





STERLING HIGH SCHOOL (DRAFT)

Administration/Guidance

Workroom/Break Room

USERS:	ACTIVITIES:
FacultyStaffVolunteersParents	 Copying Collating Preparing communications for mailing Laminating, book making, poster making General office work Storing and retrieving supplies Mail delivery and retrieval

DESIGN CONSIDERATIONS:

• Mail slots should open directly to mail pick up room.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Blinds on windows
- 4'x4' marker board
- 4'x4' tack board
- 75 12"W x 9"H x 12"D pass through mail slots with 24"D adjustable shelving below for packages
- Approximately 10 LF of casework with countertop, sink cabinet, drawer/door base cabinets and door/shelf wall cabinets
- Large counter (standing height) in the middle of the space for sorting (with a stack of flat file drawers and drawer/door cabinets).

Owner Furnished - Contractor Installed

- Paper towel dispenser
- Soap dispenser

- 36" x 72" work tables
- 6 Lounge chairs
- Refrigerator with icemaker
- 8 Chairs
- 2 42" square tables
- Vending machines 2 drink & 1 snack (vendor provided)
- Microwaves/Oven
- Copier



STERLING HIGH SCHOOL (DRAFT)



Shared – Professional Development/Data Center

Offarca i forcasionari	Development Bata Genter
USERS:	ACTIVITIES:
Teachers	Keeping track of student progress and activity
 Administrators 	Professional teacher training, development and in services
DESIGN CONSIDERATIONS:	
None	
FURNITURE, FIXTURES & EQ	UIPMENT:
Contractor Furnished – Contra	actor Installed
2 walls continuous tackable	surface
 2 walls continuous marker s 	urface
Owner Furnished – Contracto	r Installed
None	
Owner Furnished – Owner Ins	talled
• 6 - 24"x36" tables	
2 - 2-door lockable storage (cabinet
12 - Swivel, tilt chair	
2 -5-drawer vertical file cabi	nets
Television and/or Electronic	marker Board





STERLING HIGH SCHOOL (DRAFT)

Administration/Guidance

Shared - Teacher Work Center, Work Stations

Shared – reacher work Center, work Stations		
USERS:	ACTIVITIES:	
Teachers	Preparing lesson plans	
	Teacher supply storage	
	Researching	
	Meeting	
DESIGN CONSIDERATIONS:		
Dispersed throughout the factorial	acility	
FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished – Cont	ractor Installed	
4'x4' marker board		
4'x4' tack board		
Owner Furnished – Contractor Installed		
None		
Owner Furnished – Owner In	stalled	
Madulan anan affica accetan	a francisco contrata de la constante de la con	

- Modular open office systems furniture with keyed over desk storage and file drawers, each set separately keyed to a master.
- Tilt swivel desk chairs on casters



STERLING HIGH SCHOOL (DRAFT)

Administration/Guidance

Shared – Teacher Work Center, Copier Room

USERS:	ACTIVITIES:
Teachers	Preparing lesson documents
	Teacher supply storage
DESIGN CONSIDERATIONS:	
Centrally located	
FURNITURE, FIXTURES & EQI	UIPMENT:
Contractor Furnished – Contra	actor Installed
 4'x4' marker board 	
 4'x4' tack board 	
Owner Furnished – Contractor	r Installed
None	
Owner Furnished – Owner Installed	
Copier	
Tall double door storage cabinet	





STERLING HIGH SCHOOL (DRAFT)

Administration/Guidance

Television and/or electronic whiteboard

Shared - Teacher Work Center, Conference Room

Shared – reacher work Center, Conference Room		
USERS:	ACTIVITIES:	
Teachers	Meetings	
	Collaboration	
DESIGN CONSIDERATIONS:		
None	• None	
FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished – Contractor Installed		
4'x4' marker board		
4'x4' tack board		
Owner Furnished – Contractor Installed		
• None		
Owner Furnished – Owner Installed		
Credenza		
Conference table for 6 people		
6 Swivel, tilt armchairs	6 Swivel, tilt armchairs	

STERLING HIGH SCHOOL (DRAFT)

Administration/Guidance

Shared - Teacher Work Center, Break Area

USERS:	ACTIVITIES:	
Teachers	Coffee Preparation	
DESIGN CONSIDERATIONS:		
None		
FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished – Contractor Installed		
4'x4' marker board		
 4'x4' tack board 		
6 LF counter with sink and over counter cabinets		
Owner Furnished – Contractor Installed		
• None		
Owner Furnished – Owner Installed		
Microwave		
Under counter refrigerator	Under counter refrigerator	



STERLING HIGH SCHOOL (DRAFT)

Administration/Guidance

Shared – Office B (Itinerant)

USERS:	ACTIVITIES:
StaffStudentsParents	 Administrative tasks Preparation of correspondence and reports Creating and documenting new and existing students
	Meeting with parents, students and other visitors

DESIGN CONSIDERATIONS:

• Locate with Neighborhoods, Office B (AP) and Teacher Work Centers.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Blinds on windows
- 4'x4' marker board
- 4'x4' tack board

Owner Furnished – Contractor Installed

None

- Double pedestal desk with center drawer & lock, 60" x 30"
- Task chair
- 2 Guest chairs
- 4-shelf bookcase, 52"H x 36"W x 15"D
- 4-drawer vertical file, letter size, lockable

STERLING HIGH SCHOOL (DRAFT)



Shared - Community Room

USERS:	ACTIVITIES:
 Community Members Principal Staff/Faculty Parents/Students School Support Groups	Meetings/Conferences between Faculty/Staff and Students,
(PTO, etc.)	Parents and Community

DESIGN CONSIDERATIONS:

College lecture hall setting

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Approximately 6' LF casework including, sink cabinet, door base and wall cabinet
- Blinds on windows
- Marker board
- Tack board

Owner Furnished – Contractor Installed

None

- 2 door locking storage cabinet
- 2 computer work tables
- 4 task chairs
- 24 modular tables for easy rearrangement depending on room use (18" x 48")
- 42 stackable chairs
- Electronic whiteboard





STERLING HIGH SCHOOL (DRAFT)



FOOD SERVICE



HISD EDUCATIONAL SPECIFICATIONS STERLING HIGH SCHOOL

SEPTEMBER 16, 2013 CONSTRUCTION AND FACILITY SERVICES FACILITIES PLANNING



STERLING HIGH SCHOOL (DRAFT)



Overview:

School Food Service Trends

Source: National Food Service Management Institute

Purchasing food service equipment and/or planning new and renovated school nutrition facilities can be one of the most challenging projects for school administrators. Success with these projects can be achieved by communicating with professionals in the industries of school food and nutrition, engineering, and architecture.

There are many aspects that need to be considered. When you take into account the rapidly changing architecture technology, the constantly evolving school food nutrition requirements, and student preferences, it is essential to design school cafeterias that are functionally sound, financially and operationally efficient, and student relevant.

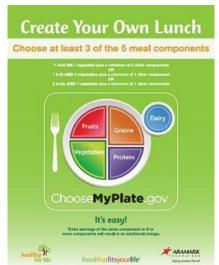
A state-of-the-art school cafeteria and operation can make a significant impact on student participation in the child nutrition program and thereby on student performance.

Furthermore, with the increase in the number of summer or after-school feeding programs across the country, and especially in urban settings, school cafeterias are evolving into areas for community centers, parent open houses, and other common meeting places, acting as living rooms for the broader community we serve.

Key Considerations in Designing a Successful School Food Operation and Cafeteria

Increased Emphasis on Health and Wellness

• The Healthy, Hunger-Free Kids Act of 2010, championed by First Lady Michelle Obama and signed by President Obama, authorizes funding and sets policy for the United States Department of Agriculture (USDA) core child nutrition programs, including the National School Lunch Program and National School Breakfast Program. Through this Act, the USDA made the first major changes in school meals in 15 years to help ensure a healthier generation of children. These changes are intended to significantly benefit the long-term well-being and success of today's students.



• Even prior to the Healthy, Hunger-Free Kids Act of 2010, during the Child Nutrition and WIC Reauthorization Act of 2004, and in addition to wellness policies on food and nutrition education, there were ramifications and policies focusing on the food environment, food service operations, and even food service equipment and design. For example, local policies might suggest the following in regard to the eating environment:

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Increased Emphasis on Health and Wellness (continued)

- Dining areas should be clean, attractive, well lighted, and well maintained and should provide adequate time and space to eat meals.
- Dining areas should be designed to minimize the amount of time that students spend waiting in line.
- Safe drinking water and convenient access to facilities for hand washing and oral hygiene should be available during all meal periods.
- Dining areas should consider additional wellness messaging in their design, such as the need for signage or demonstrations that incorporate wellness
- The increased emphasis on healthy methods of cooking has also changed the types of equipment that used to be standard in food service kitchens. For example, instead of deep- fat fryers that once were included in kitchen preparation areas, steamers and convection ovens are now a more suitable replacement.

Food Security and Emergency Preparedness

Food security and emergency preparedness are very real issues for today's school nutrition programs. Crisis management may include having a plan in place in case of lockdown of a school building. Such a crisis may require schools to plan food to accommodate a different number of students, particularly for centralized or satellite operations. Security planning may include additional locking, camera, or communication systems, such as phone tree networks, or an NOAA radio which was originally used to transmit weather-related information, but can also be used to communicate other alerts and emergency



Emergency planning for natural disasters is also receiving renewed attention, both from the standpoint of planning for evacuation and for sheltering in place. The idea of sheltering in place as a response to an emergency situation may mean that schools must contend with the possibility that a major incident might necessitate keeping students at school for longer periods of time, such as days rather than hours. The use of schools for emergency shelters for both students and residents of the community has also become a priority planning issue with disasters such as Hurricane Katrina.

Alternate Food Production Systems

information.

Labor shortages are not new, but continue to be a concern across the entire food service industry, including schools. To answer this problem, some large school districts such as HISD have switched to centralized production facilities. Although high school kitchen designs tend to focus more on fresh on-site cooking, often in view of the customer service area, many high-use items can be prepared in the central location and supplied to the school campus to eliminate preparation time and deliver consistent, safe products for menu incorporation. This method reduces equipment, inventory, and storage needs in school sites. In most cases, it can reduce

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overall labor or, at a minimum, redirect labor to a front-of-the-house customer focus. This is especially critical with older student customers.

Smaller and More Mobile Equipment

Newer equipment trends include a focus on smaller equipment and more mobile units, particularly for self-service areas such as salad, deli, or fruit and vegetable bars. Smaller and more mobile equipment offers the maximum flexibility to accommodate daily, as well as long-term menu needs. In addition, smaller, more mobile equipment also allows the service of food in schools in non-traditional locations.

Equipment with New or Blended Technologies

Cooking equipment with multiple or blended cooking options has become more common. Blended cooking equipment offers efficient and faster cooking. Examples include:

- Combi-ovens which offer the opportunity to cook with or without steam
- Central cooking units or "mono-blocks" may include gas burners, induction cooking plates, electric solid tops, wok ports, etc.
- Combined convection and microwave systems
- Combined lightwave and microwave ovens

Combination technology is now being found in other areas besides cooking equipment. Blixers or combination blenders and mixers are a more versatile and powerful option in food preparation. Conversely, more specialized equipment is also popular. Although not as commonly purchased in schools, bagel mixers, pizza ovens, and specialty coffee equipment have become popular in commercial restaurants.

Labor-Saving Options

Automation of equipment has already been used as one solution to the labor shortage in quick service restaurants. While schools may not be able to take advantage of this solution as completely as other segments of the food service industry, purchasing equipment that enables labor savings is one way to combat the labor shortage. Options that schools have installed include self-cleaning or descaling systems on certain types of equipment such as steamers, or water washing hoods that can be pre-set to wash when they are not being used. A trend toward manufacturing equipment with built-in maintenance operations is being observed across the board for many types of equipment. As it becomes a value-added feature, it may also reduce warranty cost.

Better Ventilation

Newer technology in ventilation systems allows for more comfortable work environments. Newer technologies include ventless hoods and cooking equipment that have been developed to allow the use of equipment outside of a ventilation hood; an example would be some specialty steamers. Local regulations should be followed in regard to the use of these; however, some schools have profited from the expanded cooking area. Less equipment underneath the hood might also be considered energy saving as it decreases the load on the heating, ventilation, and air conditioning (HVAC) systems. Due to increasing energy costs, the goal to minimize ventilation needs is also a trend for the future. In addition, ultraviolet hoods are now available for cleaning



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grease that accumulates in and above range filters and ducts.

Increased Emphasis on Food Safety

Implementation of HACCP (Hazard Analysis Critical Control Point)-based Standard Operating Procedures is required in all areas of the school food service operation shown below:

- Improved chilling of foods with smallwares and refrigeration equipment
- Better temperature tracking with faster and more convenient types of thermometers (for example, thermocouple and infrared thermometers) as well as more efficient documentation systems
- Decreased cross-contamination with equipment and supplies using color-coded methodology
- Greater availability of equipment that meets HACCP standards
- · More effective hot- and cold-holding of foods
- Greater emphasis on equipment that is easy to clean and sanitize, as well as more effective, easier-to-use cleaning supplies
- Equipment systems that are integrated into computerized smart systems for better tracking and efficiency

Incorporation of Electro-Processors and Computers into Equipment

The use of electro-processor-based controls from electro-mechanical controls has become the standard. Electro-processor-based controls may be seen as digital read outs, touch pads, and other computer programming options. As these controls have become more reliable and multi- functional, they also have become smaller.

This enhancement results in a smaller piece of equipment with the same or greater production capacity. Programmable equipment can also result in significant energy savings if it is used to adjust equipment settings during periods when the equipment is not needed. It has been used extensively for heating, ventilation, and air conditioning systems, but is also possible in other areas.

Computer technology also includes computer monitored freezer alarms that will dial the central office or designated manager's home phone if the temperature falls to a certain level. Food loss can be avoided and food safety maintained with the proper use of these alarm systems. Computers can even be used to track defrost cycles and how long the freezer doors remain open.

Smart kitchens are one of the latest trends that make a great deal of sense in light of today's energy concerns. In a smart kitchen, equipment is hooked up to modems to remotely monitor temperature changes, malfunctions, and data related to food safety, as well as data related to food quality. Smart systems are a wave of the future for efficiency, quality, and control, but require greater investment to start. Examples of equipment that could be hooked up to smart systems include warewashers, blast chillers, walk-in and other refrigerators, and cooking equipment, as well as heating, ventilation, and air conditioning systems.

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Construction materials have also evolved. Although stainless steel will continue to be viewed as one of the most durable materials, newer materials are being developed that are attractive and less expensive, yet still very practical. Some of these materials even incorporate additional benefits, such as antimicrobial properties. Examples range from colorful porcelain or enamel on equipment surfaces to the use of new materials such as silicone for smallwares. Silicone bakeware offers unique properties for insulation, but is considerably more expensive than metal bakeware and is not as likely to be used in volume preparation. Color-coded cutting boards, utensils, and plastic boxes offer food safety protection through their ability to identify their separate use for different food products, such as poultry, beef, and vegetables, thus minimizing the risk of cross-contamination.

Environmentally Friendly Equipment

Manufacturers are adapting equipment to meet growing environmental concerns. These concerns include energy use, air quality, water quality, and water use. Other environmental trends include reflective window glass, products made from recyclable materials, or energy-saving equipment. For example, air-cooled ice machines may be selected over water-cooled ice machines.

Consumer Trends

Changing lifestyles have affected the way we serve food in school cafeterias. There are many factors that contribute to this:

- Changing Lifestyles: Students are clearly more savvy and sophisticated in their tastes and desires for food service. Students have higher expectations resulting from their dining out experiences. Their expectations demand a wider variety of foods, better quality, increased food service choices, and an enhanced dining atmosphere. Students expect what they see in retail food courts or restaurants.
- Dining Environments: Student demands include more variety including "ethnic" menu items that are served in retail-like environments that offer convenience. Historical "scramble" or "single line serving" systems are not sufficient to satisfy the needs of these increasingly demanding and savvy students. There also is an increasing requirement to focus on the student as a "customer" instead of as a "captive audience."
- Convenience: Speed of service is a significant determining factor in the success of the food service operation as students simply do not want to wait in line. As a result, multiple service points are becoming the norm in new school cafeteria designs. Nationally, students have 22 minutes on average to pick up their food and eat. Most students prefer to spend this time eating and socializing with their friends rather than waiting in line.

According to the student ViewPOINT™ survey conducted by ARAMARK Education in 2012 among 42,000 students across the country:

- Of the students who skip lunch or do not eat at the cafeteria, 53 percent of them stated that long lines are the main reason why they do not eat at the cafeteria one or more days in a week.
- Eighty percent of the students stated that shorter lines or line speed is an important factor when they decide whether or not to get lunch at school.





Service Trends

The trends being observed in new school food service programs include a blend of self-service and multiple points of employee service with greater showcasing of food. This includes more open kitchen/preparation areas allowing for some part of the food preparation to be seen and appreciated by the student customer. Rounding out this trend is the food service operations' use of school kitchens to prepare meals for non-student populations. If a school program provides meals to groups outside of the school population or is considering it in the next five years, there may be an additional set of customer expectations to address in the purchase of food service equipment.

A guiding principle when making equipment purchasing decisions should be flexibility to meet future needs of the changing customer base. This will allow operations to handle incoming fads and long-term trends while maintaining operational viability.

Food Court Concepts

The food court design has been an extremely popular trend where students select from various specialty stations, such as burger bars, deli stations, and taco bars. This allows the students to wait only at the stations of their choice and go to different stations depending on their preference for the day. These kiosks or stations should consider providing standard pieces of equipment in each station so flexibility is retained when menus are redesigned as student tastes change.

Alternative Service Points

Quick service walk-up windows are being offered in some schools with positive outcomes. These service points can be in addition to the food court concept as an alternative point of service for the student population to be able to "grab and go." Schools also feel that the window service allows additional opportunities beyond the normal meal service periods. Clubs, for example, may use the windows after hours to sell concessions for different events at the school.

Speed Lines

Speed lines provide a fast system where multiple points of service are offered. Foods may include pre-wrapped products such as fresh salads, bagged lunches, breakfast meals, or other grab-and-go healthy options. Lines are often double-sided and the focus is on efficient movement for students on the go.

Kiosks and Food Carts

Kiosks offer food for faster service at small, mobile, free-standing carts. This increases and/or diversifies the number of service locations offered. It also enables higher participation as we are able to take more options to the students in places such as hallways, entrances, and gymnasiums.



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Exhibition-Style Cooking

Some form of display cooking or custom assembly of food right in front of the customer's view adds to a preferred perception of quality and freshness. Savvy students of all ages are catching on to the resurgence of "fresh is best." Television cooking channels also continue to push this approach as well as increasing the popularity of cooking "from scratch."

In order to meet customer demand for freshness, high schools may choose to include exhibition-style cooking at some service points. Panini grills, conduction cook tops, woks, grill/broilers, and pizza impinge (conveyor) ovens are often incorporated in cooking areas behind the service stations. Given the high volume of typical school lunch period customer traffic, these stations are limited to certain service points and are incorporated into serving areas offering more traditional speed-of-service and grab-and-go stations to meet volume demands. They serve to pique customer interest and sales and should be versatile to meet changing student preferences.

Critical Needs List

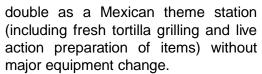
Following site visits to a number of Texas schools a broader group of HISD Food Services/ARAMARK operations and support services senior team members reviewed the findings and discussed key local considerations for an HISD facility. The group included leaders from maintenance, quality control, operations, warehouse and distribution, marketing, and administrative staffs. The following five factors were determined to be the critical drivers to successfully achieving HISD's food service's end goal:

- 1. Key regulatory considerations/National School Lunch Program requirements:
 - a. HISD should continue offering a large variety of fresh fruit and vegetables with every meal. Adequate and refrigerated merchandising space is needed on each service line.
 - b. The POS (point-of-sale) units must be located at the end of the serving line after all food and beverages have been served in order to comply with NSLP regulations.
 - c. To comply with NSLP potable water access regulations, water fountains must be located in the dining area.
- 2. Changing trends in menus:
 - a. Student ViewPOINT surveys conducted over the last three years in all HISD middle and high schools show the consumer preference to continue popular build-your-own style serving options for our students.
 - Relevant concepts and environments where students want to eat must be offered.
 - c. Serving lines need mobile serving equipment and versatile cooking equipment to change menu theme with consumer preference. For example, this could include a grill station that can



Home Zone Concept Traditional and fresh fare; build-your-own meal as you like it

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- d. The HISD Parent Advisory Committee recommends that small high schools be afforded full-service menu options with a cooking facility versus a noncooking satellite setup whenever possible.
- 3. The HISD Food Services Support Facility (FSSF) production model:
 - a. Specialized small equipment needs will be kept to a minimum as all HISD campuses are supplemented with prepared foods from the Food Service Support Facility.



Corner Crust Original Pizza & Pasta Made fresh and daily: pizza, salads, calzones,and made-to-order pasta

- b. Storage space needs are significantly less than the NFSMI standard as the FSSF warehouse and production center controls the product delivery schedule and menuing. Inventory levels in HISD campuses are tightly controlled.
- c. With the production facility supplementing food production, site staffing should meet service model requirements with the majority of staff assigned to the serving line area for speed of service at an average of 17 students per minute.

4. Design by enrollment:

a. The size and number of serving areas should adjust and vary with enrollment.
 À la carte serveries were deemed necessary at all campuses, with smaller locations serving less enrollment receiving smaller à la carte serving areas.

5. Equipment considerations:

- a. Equipment quantities will adjust with enrollment size, although the type of equipment would be standard for most school models.
- b. Walk-in freezers should open into coolers to temper air.
- c. Cook lines should be separated in larger kitchens to manage the work flow of traffic efficiently and to avoid unsafe conditions.



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ARAMARK regional and national marketing representatives were engaged to discuss consumer trends in dining and service concepts to ensure that the proposed cafeterias for HISD 2012 Bond High Schools would be in line with cutting-edge marketing trends. John Kandemir, Vice President of ARAMARK Education Marketing, and Rick Ward, Regional Marketing Director, were consulted for their expertise in consumer trends and operational design to meet consumer expectations.

John and Rick monitor the latest research from education organizations, K–12 publications, industry experts, and agencies to stay abreast of K–12 legislation, regulations, and food and customer trends. Providing their expertise and support to more than 400 school district partners across the country, they complement their research with a proprietary ViewPOINT Survey to provide an integrated 360-degree view of the K–12 environment that delivers insight for school- specific improvements and innovation. The local HISD ViewPOINT Survey results were considered in developing this document.

ARAMARK Capital Projects' design experts were also consulted for their expertise and validation of our plan direction. Their group connects resources, guides capital project innovations, and educates the company and its partners on ways to maximize investment value. They are responsible for ARAMARK's creation and management of dining concepts, facility design standards, and managing our network of equipment and smallwares relationships. The Associate Vice President of Project Development, Michael Bolanos; Director of Project Execution, Bill Miller; and Project Agent, Mark Bond, were specifically consulted in our planning.

Last year they supported more than 500 facility and food concept design projects throughout ARAMARK. The K-12 district partners made up over 200 of these projects, including the concept development of the 75 new build-your-own service lines recently installed in HISD high schools. Their expertise, feedback, and support have been invaluable in the development of the enclosed plan.

The facilities described on subsequent pages provide for the preparation and serving of food to the students, staff and faculty. The Dining Commons serves not only as a place for eating but also a location used by the school for assemblies and student performances.

These facilities should be located in close proximity to the Custodial/ Maintenance area so that the receiving area can be shared.



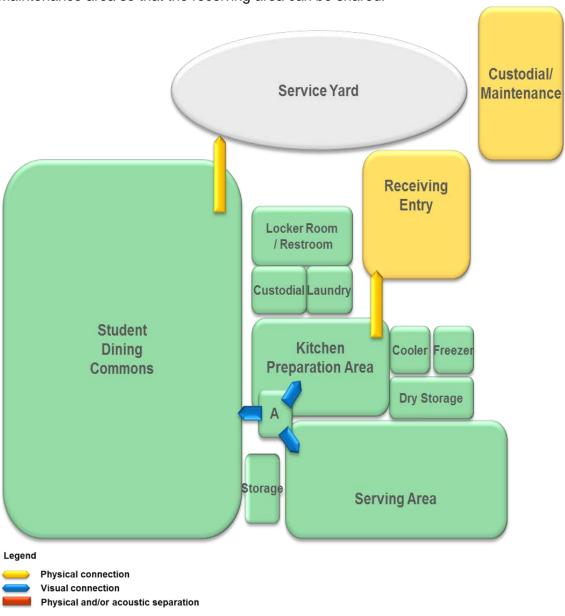
STERLING HIGH SCHOOL (DRAFT)

Food Service

Overview:

These facilities provide for the preparation and serving of food to the students, staff and faculty. The Commons Area serves not only as a place for eating but also a location used by the school for assemblies and student performances.

The centralized facilities should be located in close proximity to the Custodial/ Maintenance area so that the receiving area can be shared.



The functional relationships illustrated are diagrammatic only. Further interpretation of these relationships shall be implemented by the Design Team.

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Food Service	Teaching Station(s)	Quantity	Square Feet	Net Area
Kitchen Preparation Area		1	1,450	1,450
Serving Area		1	1,900	1,900
Dry Storage		1	325	325
Freezer		1	275	275
Cooler		1	275	275
Kitchen Manager's Office		1	150	150
Laundry/Custodial Area		1	75	75
Locker Room/Restroom		1	200	200
Student Dining Commons (seating for 1/3 of students at one time plus 200 for dining)		1	8,565	8,565
Total	0			13,215



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HISD EDUCATIONAL SPECIFICATIONS

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Food Service

Kitchen Preparation Area

USERS:	ACTIVITIES:
Manager	Preparation of food
 Food Service Staff 	Cooking foods
	Staging meals before moving to serving lines
	Cleaning equipment, work surfaces and floors
	-

DESIGN CONSIDERATIONS:

- Equipment shall be located under two exhaust hoods located in close proximity to serving areas.
- Doorbell at receiving should be audible in Food Preparation Area.
- Allow space to store Utility Carts.
- Provide a minimum of 4' 0" wide doors.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Markerboard
- Tackboard

The kitchen equipment listed below is representative of the needs for a large high school. This list will be customized for each project in consultation with HISD Food Services during the Design Phase.

- 3 Cooklines:
 - Vent Hood, minimum 18 feet
 - Fire Protection System
 - 1 ea.-Range
 - 2 ea.–Oven, Gas, Double Convection
 - 1 ea.–Two Compartment Forced Convection Steamer
 - 1 ea.-Fill Faucet adjacent to range
 - 1 Fire System
- 1-Electric Can Opener
- 2-Manual Can Openers
- 1 at each cooking area -Two Compartment Sink w/Disposer
- 2 Disposers
- 8 Utility Carts

- 1 2'x6' Slicing Table
- 3 Stainless Steel Work Table
- 1 Fill Faucet by each range
- Clock
- 1 Ice Machine
- 1 Ice Storage Bin
- 8 Dolly, Milk Case
- See code requirements for quantity -Camcarts, for Food boxes and Trays, sheet pans
- 8 Rack, Bun
- Shelving, Solid As needed
- Tables, Work as needed
- 2 Table, Baker's w/ Bins (8')
- Small Wares Package

Owner Furnished – Contractor Installed

- Soap Dispensers
- Paper Towel Dispensers

Owner Furnished - Owner Installed

Clock(s)

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Food Service

Serving Area

USERS:	ACTIVITIES:
Kitchen Manager	Serving food
 Food Service Staff 	Receiving payment for food
Students	
Faculty	

DESIGN CONSIDERATIONS:

- Equipment is based on a minimum of 3 lunch periods.
- Serving will be in a food court design number of stations dependent upon school capacity.
- If more than four stations, one station to be separate from kitchen so it can be used by school organizations after hours.
- Doorbell at receiving should be audible in Serving Area.
- Provide a minimum of 4'-0" wide doors.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

The kitchen equipment listed below is representative of the needs for a large high school. This list will be customized for each project in consultation with HISD Food Services during the Design Phase.

- 6- Utility Distribution Systems
 - 2- Salad Bar
 - 2 ea. -Serving Unit Cold 3 Pan Size w/ Double Tier Display
 - 2 ea. -Serving Unit 3 Pan Unit Flat Unit
 - 1 ea. -Serving Unit Hot 5 Pan Size w/ Single Tier Serving Shelf
 - 1 ea. -Serving Unit Cold 5 Pan
 - 1 ea. -3' Cash Table
 - 3- Serving Areas for other than salad
 - 2 ea. -Serving Unit 4 Pan Unit Flat Unit
 - 2 ea. -Serving Unit Cold 4 Pan Size w/ Double Tier Display
 - 2 ea. -Serving Unit Hot 4 Pan Size w/ Single Tier Serving Shelf
 - 1 ea. -5' Cash Register
 - 1 ea. -Serving Unit 3 Pan Unit Flat Unit
- 3 Drop Front Milk Cooler
- 1 Snack Bar Counter
- Tray/Silverware/Napkin Stands
- 2 Refrigerated Drop-in, Three Pan
- 3 Pass Through Refrigerator 1 dr.
- 1 Pass Through Refrigerator 2 dr.
- 3 Pass Through Heated Cabinet 2 dr.
- Multi-fold Hand Towel Dispensers
- Soap Dispensers
- 1 Two Sided Grill
- 2 Round Cooker Warmers
- Electronic Display (Menus)

Owner Furnished - Contractor Installed

None

- 6- Point Of Sale (POS) Units
- Adjustable height stools
- Clock(s)





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Food Service

Dry Storage

USERS:	ACTIVITIES:
Food Service Staff	Storing dry food / supplies

DESIGN CONSIDERATIONS:

- Locate Dry Storage near Kitchen Preparation Area
- Locate Dry Storage for easy access to Receiving Entry
- Provide security camera to monitor entrance
- Provide a minimum of 4' 0" wide doors.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- 1 Can Rack gravity fed
- Maximum LF of 24" D adjustable shelving with first shelf at least 6" from finish floor
- 2 dunnage racks

Owner Furnished – Contractor Installed

None

Owner Furnished - Owner Installed



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Food Service

Owner Furnished – Owner Installed

Freezer

USERS:	ACTIVITIES:	
Food Service Staff	Storing frozen food	
DESIGN CONSIDERATIONS:		
 Locate freezer near Kitcher 	n Preparation Area and have it open from Cooler.	
 Locate cooler/freezer for ea 	asy access to Receiving Entry.	
 Provide computerized remo 	ote monitoring system.	
 Provide a minimum of 4' - 0)" wide door	
FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished – Contractor Installed		
Walk-in Freezer – TN-078		
Maximum LF of 20" – 24" Shelving		
Owner Furnished – Contractor Installed		
None		





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Food Service

Cooler

000101			
USERS:	ACTIVITIES:		
Food Service Staff	Storing cold foods		
	Defrosting frozen food		
DESIGN CONSIDERATIONS:			
Locate cooler near Kitchen F	Preparation Area and have it open into both Prep and Freezer		
Locate cooler/freezer for eas	Locate cooler/freezer for easy access to Receiving Entry.		
Provide a minimum of 4' - 0" wide doors.			
FURNITURE, FIXTURES & EQUIPMENT:			
Contractor Furnished – Contractor Installed			
Maximum LF of 20" – 24" shelving			
Owner Furnished – Contractor Installed			
• None			
Owner Furnished – Owner Ins	Owner Furnished – Owner Installed		

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Office A (Kitchen's Manager's Office)

USERS:	ACTIVITIES:
Manager	 Filing out Food Service documentation Reviewing employee request Ordering supplies Counting cash

DESIGN CONSIDERATIONS:

- Locate manager's office in a central location to allow visibility into kitchen prep area, service line holding area and receiving.
- Provide windows above 3' to below ceiling on all sides. Bookcase below windows on one side.
- Doorbell at receiving should be audible in Kitchen Manager's Office and Kitchen Preparation Area.
- If camera is provided it needs to be monitored through the computer system in the office.
- Combination safe should be secured to the building in a non-visible space in the office..

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- 4' x 4' marker board
- 4' x 4' tack board
- Combination Safe

Owner Furnished - Contractor Installed

None

- Desk
- Task Chair
- Guest Chair
- File Cabinet
- Bookcase
- Blinds Clock





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Food Service

Laundry / Custodial Area

USERS:	ACTIVITIES:
Manager	Washing food prep clothes and aprons
 Food Service Staff 	Drying food prep clothes and aprons
	Storing cleaning supplies
	Storing cleaning equipment
	Cleaning mops
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DESIGN CONSIDERATIONS:

• Provide sufficient ventilation to prevent fumes from cleaners from damaging mother boards in washer and dryer. Alternatively, provide separate rooms for

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Washer
- Dryer
- Wall-mounted adjustable shelving above washer and dryer
- Mop/Broom Rack
- Mop Sink
- Plastic Shelving

Owner Furnished – Contractor Installed

Paper Towel Dispenser

Owner Furnished – Owner Installed



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Food Service

Locker Room / Restroom

USERS:	ACTIVITIES:		
Kitchen Manager	Staff clothes changing		
Food Service Staff	Storing of personal items by Staff		
DESIGN CONSIDERATIONS:			
Provide floor drains with each area.	asy access clean-outs.		
FURNITURE, FIXTURES & E	QUIPMENT:		
Contractor Furnished – Conf	tractor Installed		
Lockers (15 - 20 minimum)			
Coat Hooks	Coat Hooks		
Owner Furnished – Contract	Owner Furnished – Contractor Installed		
Paper towel dispenser			
Soap dispenser			
Toilet paper dispenser			
Owner Furnished – Owner Installed			
Bench			
Clock			





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Food Service

Student Dining Commons

3	
USERS:	ACTIVITIES:
Kitchen ManagerFood Service StaffStudents	EatingStudent AssemblySocial Gathering
Faculty	
	USERS:Kitchen ManagerFood Service StaffStudents

DESIGN CONSIDERATIONS:

- Provide access from Dining Commons to dumpster area without going through Kitchen Prep.
- Include drinking fountains in the Dining Commons

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- 4' x 8' Tack board(s)
- Ceiling mounted projector
- Sound System
- Electronic Display

Owner Furnished - Contractor Installed

None

- Tables and chairs for 1/3 of the program capacity plus 200 for dining
- Size and shape of tables should be varied to prevent an institutional appearance
- Clock



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Student Dining Commons - Stage

Owner Furnished - Owner Installed

• None

Student Dining Commons – Stage		
USERS:	ACTIVITIES:	
Students	Student Performances	
Faculty	School Assemblies	
	Drama Rehearsals	
	Dance Rehearsals	
DESIGN CONSIDERATIONS		
 Provide stage lighting with 	n control board.	
Provide outlets and micro	phone plugs at the top step.	
FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished – Contractor Installed		
Motorized Projection Screen		
Curtains – front, sides and back		
Mirrors behind curtains on back wall of stage for potential use as a dance rehearsal area		
Owner Furnished – Contractor Installed		
None		





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Tall lockable 2-door cabinets

Food Service

Control Poom

Student Dining Commons – Control Room			
USERS:	ACTIVITIES:		
Students	Controlling stage lighting		
Faculty	Controlling sound system		
	Storing A/V Equipment for stage		
DESIGN CONSIDERATIONS:			
None			
FURNITURE, FIXTURES & EQI	UIPMENT:		
Contractor Furnished – Contractor Installed			
4' x 4' Markerboard			
4' x 4' tack board			
Owner Furnished – Contractor Installed			
• None			
Owner Furnished – Owner Installed			
• Chairs			
• 30" x 60" table			

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Food Service

Student Dining Commons - Storage

•		
USERS:	ACTIVITIES:	
Kitchen Manager	Storing dining tables and chairs	
 Food Service Staff 	Storing dining room equipment	
Students		
Faculty		
DESIGN CONSIDERATIONS	3 :	
None		
FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished – Contractor Installed		
• None		
Owner Furnished – Contractor Installed		
• None		
Owner Furnished – Owner Installed		
Cart for Chairs		
Cart for Tables		





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CUSTODIAL / MAINTENANCE



HISD EDUCATIONAL SPECIFICATIONS STERLING HIGH SCHOOL

SEPTEMBER 16, 2013 CONSTRUCTION AND FACILITY SERVICES FACILITIES PLANNING



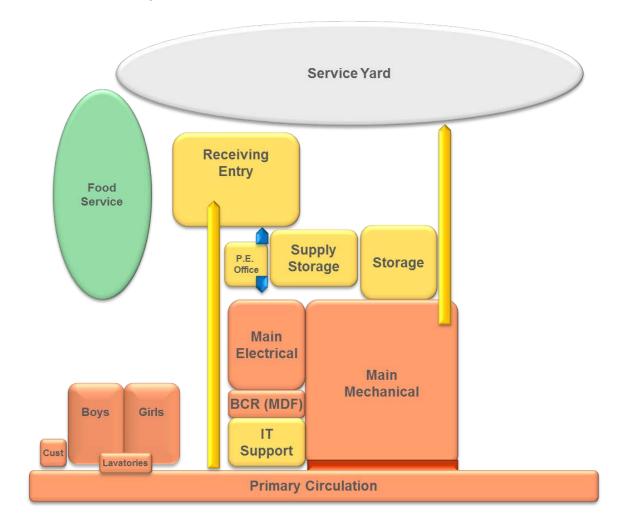
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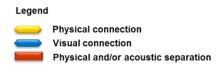


Overview:

These facilities provide for the cleaning and maintenance of the facility and include not only spaces dispersed throughout the school, but also central facilities for receiving, inventorying and storing supplies and equipment.

The centralized facilities should be located in close proximity to the Food Service area so that the receiving area can be shared.





The functional relationships illustrated are diagrammatic only. Further interpretation of these relationships shall be implemented by the Design Team.





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Space Requirements

Custodial/Maintenance	Teaching Station(s)	Quantity	Square Feet	Net Area
Receiving Entry		1	150	150
Office, Plant Engineer		1	75	75
Custodial/Maintenance Storage		1	300	300
Supply Storage Supply Storage		1	300	300
IT Support		1	150	150
Custodial Closet		5	100	500
Total	0			1,475



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Receiving Entry

USERS:	ACTIVITIES:
Plant Operator	Filing out documentation for receipt of goods
Maintenance Staff	Receiving miscellaneous school supplies
Custodial Staff	Receiving equipment
Kitchen Staff	Receiving food deliveries
Delivery Personnel	Disposal of school & food service waste

DESIGN CONSIDERATIONS:

- Provide space for a minimum of 3 waste bins and 1 recycle bin in Service Yard.
- Loading area is not to be a dock, but a curb.
- Provide doorbell that will be audible in kitchen.
- Provide window, peep hole or camera for visibility of persons making deliveries to those receiving deliveries.
- Provide bollards to prevent damage to buildings

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

None

Owner Furnished – Contractor Installed

None

Owner Furnished – Owner Installed

None





STERLING HIGH SCHOOL (DRAFT)

Custodial / Maintenance

Plant Engineer's Office

Bookcase

Tiant Engineer 3 Office	,		
USERS:	ACTIVITIES:		
Plant Engineer	Office functions for Plant Engineer		
Custodial Staff	Repairing equipment using hand tools		
Maintenance Personnel	Scheduling of custodial staff		
	Reviewing staff requests		
DESIGN CONSIDERATIONS:			
 View to Receiving Entry 			
FURNITURE, FIXTURES & E	FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished – Contractor Installed			
4' x 4' Tack board			
4'x4' Marker board			
Owner Furnished – Contractor Installed			
• None			
Owner Furnished – Owner Installed			
• Desk			
Filing cabinet			
Task chair			
Guest chair			

STERLING HIGH SCHOOL (DRAFT)

Custodial / Maintenance

Storage

USERS:	ACTIVITIES:
Plant EngineerCustodial StaffMaintenance Personnel	 Repairing equipment using hand tools Storing miscellaneous building supplies Storing building maintenance equipment
DESIGN CONSIDERATIONS:	· · · · · · · · · · · · · · · · · · ·

None

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

3 locking cages to secure equipment/supplies

Owner Furnished - Contractor Installed

None

Owner Furnished – Owner Installed

- 30" x 48" table
- 2- Chairs
- 3 tall deep heavy duty shelf units
- Maximum LF of 24" D x 84" H x 16' L heavy duty open adjustable shelving on perimeter



STERLING HIGH SCHOOL (DRAFT)

Custodial / Maintenance

Supply Storage

USERS:	ACTIVITIES:		
Plant EngineerCustodial Staff	 Storing miscellaneous school supplies Storing school furniture Storing school equipment 		
DESIGN CONSIDERATIONS:			
None	• None		
FURNITURE, FIXTURES & EQUIPMENT:			
Contractor Furnished – Contractor Installed			
• None			
Owner Furnished – Contractor Installed			
None			
Owner Furnished – Owner Installed			
Adjustable metal shelving			



STERLING HIGH SCHOOL (DRAFT)



IT Support

USERS:	ACTIVITIES:		
IT Personnel	Store IT equipment		
Plant Operator	Repair IT devices		
DESIGN CONSIDERATIONS:			
None			
FURNITURE, FIXTURES & EC	FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished – Contractor Installed			
None			
Owner Furnished – Contractor Installed			
• None			
Owner Furnished – Owner Installed			
• 30 x 60 Table			
2 Chairs	2 Chairs		
Adjustable shelves			





STERLING HIGH SCHOOL (DRAFT)

Custodial / Maintenance

Custodial Closet

USERS:	ACTIVITIES:		
Plant Engineer	Storing of Mops and Brooms		
Custodial Staff	Cleaning of mops and other custodial equipment		
DESIGN CONSIDERATIONS			
 Locate throughout school 			
FURNITURE, FIXTURES & E	FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished – Contractor Installed			
Mop Sink			
Mop and Broom Rack			
Owner Furnished – Contractor Installed			
• None			
Owner Furnished – Owner Installed			
Metal shelving unit			





SUPPORT SERVICE



HISD EDUCATIONAL SPECIFICATIONS STERLING HIGH SCHOOL

SEPTEMBER 16, 2013 CONSTRUCTION AND FACILITY SERVICES FACILITIES PLANNING



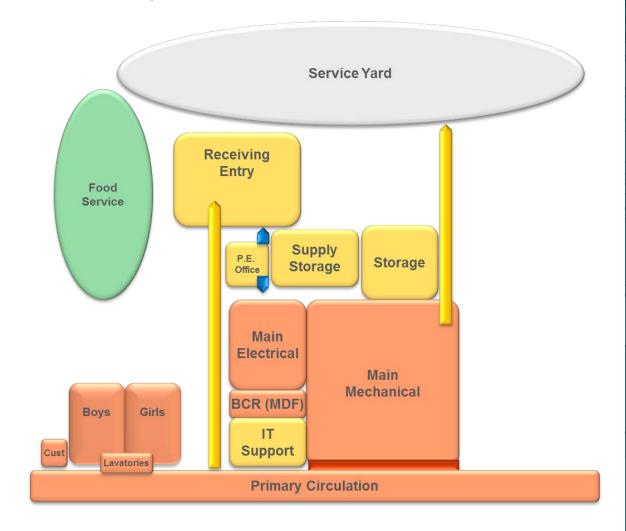
STERLING HIGH SCHOOL (DRAFT)

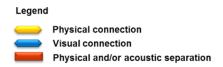


Overview:

These facilities provide for centralized building services including electrical and mechanical necessary for the operations of the building, but also service areas that are located throughout the building.

The centralized facilities should be located in close proximity to the Food Service area so that the receiving area can be shared.





The functional relationships illustrated are diagrammatic only. Further interpretation of these relationships shall be implemented by the Design Team.



STERLING HIGH SCHOOL (DRAFT)

Building Support

Corridors

USERS:	ACTIVITIES:
StudentsFacultyStaffVisitors	 Circulation of occupants Displaying awards, pictures, student work and school announcements
	·

DESIGN CONSIDERATIONS:

- Lockable display cases are encouraged for the displaying of awards, pictures, school announcements and student work.
- Decision on whether to provide student lockers as well as their size and location will be determined in conjunction with the PAT during the Schematic Design phase.
- Minimum corridor widths are:
 - Serving more than two classrooms: 8' 0"
 - Serving more than eight classrooms: 9' 0"
 - Major corridor: 12'-0"
 - Lockers along one wall: add 2'-0"
 - Lockers along two walls: add 3'-0"

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Lockable display cabinets
- Tack board / Tack wall

Owner Furnished - Contractor Installed

None

Owner Furnished – Owner Installed

None



STERLING HIGH SCHOOL (DRAFT)

Building Support

Group Restrooms

USERS:	ACTIVITIES:
Students	Personal hygiene
DESIGN CONSIDERATIONS:	
None	
FURNITURE, FIXTURES & E (QUIPMENT:
Contractor Furnished – Cont	ractor Installed
 Mirrors (not above sinks) 	
Owner Furnished – Contract	or Installed
 Paper towel dispensers 	
 Soap dispensers 	
 Toilet paper dispensers 	
Owner Furnished – Owner In	stalled
None	



STERLING HIGH SCHOOL (DRAFT)

Building Support

Single Restrooms

None

3										
USERS:	ACTIVITIES:									
Faculty	Personal hygiene									
 Visitors 										
DESIGN CONSIDERATIONS:										
• None										
FURNITURE, FIXTURES & E (FURNITURE, FIXTURES & EQUIPMENT:									
Contractor Furnished – Cont	ractor Installed									
 Mirrors 										
Owner Furnished – Contract	or Installed									
 Paper towel dispensers 										
 Soap dispensers 										
 Toilet paper dispensers 										
Owner Furnished – Owner In	stalled									

STERLING HIGH SCHOOL (DRAFT)

Building Support

Main Mechanical

USERS:	ACTIVITIES:										
Plant Operator	Mechanical Equipment which heats and cools school										
Maintenance Staff	Repairing Mechanical Equipment										
	Servicing Mechanical Equipment										
DESIGN CONSIDERATIONS:											
Size doors to allow for rep	Size doors to allow for replacement of equipment.										
Provide coiling overhead door to exterior.											
FURNITURE, FIXTURES & E	QUIPMENT:										
Contractor Furnished – Conf	tractor Installed										
Mechanical Equipment											
Owner Furnished - Contract	or Installed										
None											
Owner Furnished – Owner In	estalled										
None											





STERLING HIGH SCHOOL (DRAFT)

Building SupportMain Electrical

USERS:	ACTIVITIES:								
Plant EngineerMaintenance Personnel	 Electrical Equipment for school's electrical needs Repairing Electrical Equipment Servicing Electrical Equipment 								
DESIGN CONSIDERATIONS:									
Attempt to locate so not below "wet" spaces.									
FURNITURE, FIXTURES & E (QUIPMENT:								
Contractor Furnished – Cont	ractor Installed								
Electrical Equipment									
Owner Furnished - Contract	or Installed								
None									
Owner Furnished – Owner In	stalled								
• None									



STERLING HIGH SCHOOL (DRAFT)

Building Support

BCR - Building Communication Room (MDF)

FCR - Floor Communication Room (IDF)

USERS:	ACTIVITIES:
Plant EngineerIT Personnel	 House IT equipment House mission critical equipment (i.e. fire alarm, burglar alarm, intercom)

DESIGN CONSIDERATIONS:

- Maintain a temperature of 40 degrees in the BCR.
- Locate FCRs so that serve an area within a 190 foot radius. If the building is multistory, locate FCRs so that they are stacked`

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Fire Rated Plywood on a minimum of 3 walls
- Fire alarm
- Intrusion alarm

Owner Furnished - Contractor Installed

None

Owner Furnished - Owner Installed

- IT Racks
- IT Equipment





STERLING HIGH SCHOOL (DRAFT)

Building Support

Stairs

None

Otano	airs from corridors should be maintained tudent circulation should be considered rather than a single EQUIPMENT: ontractor Installed										
USERS:	ACTIVITIES:										
Students	Vertical circulation for building occupants										
 Faculty 											
Staff											
 Visitors 											
DESIGN CONSIDERATIONS:											
 Visual supervision of stairs 	Visual supervision of stairs from corridors should be maintained										
 Multiple staircases for stud monumental stair 	ent circulation should be considered rather than a single										
FURNITURE, FIXTURES & EC	QUIPMENT:										
Contractor Furnished – Cont	ractor Installed										
• None											
Owner Furnished – Contracto	or Installed										
• None											
Owner Furnished – Owner In	stalled										



STERLING HIGH SCHOOL (DRAFT)

Building Support

Elevator

USERS:	ACTIVITIES:
Students	Vertical circulation for building occupants
Faculty	
Staff	
Visitors	
DESIGN CONSIDERATIONS:	
 Key operated only 	
FURNITURE, FIXTURES & E (QUIPMENT:
Contractor Furnished – Conf	tractor Installed
None	
Owner Furnished – Contract	or Installed
None	
Owner Furnished – Owner In	stalled
None	





STERLING HIGH SCHOOL (DRAFT)

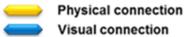
IT Support

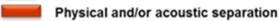
Overview:

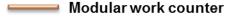
HISD is in the early stages of an initiative which when completed will provide each learner with a laptop or tablet. In order to support this initiative, spaces for the repair and storage are to be provided. The spaces should be finished similar to Learning Centers so that if at some time in the future, the spaces are no longer needed for IT support, they can become teaching stations.



Legend







The functional relationships illustrated are diagrammatic only. Further interpretation of these relationships shall be implemented by the Design Team.



STERLING HIGH SCHOOL (DRAFT)



IT Support	Teaching Station(s)	Quantity	Square Feet	Net Area
Visual Arts Wet Lab	0	1	850	850
Kiln Room		1	850	850
Total Net				1,700
Building Support			38%	646
Total Gross				2,346





STERLING HIGH SCHOOL (DRAFT)

IT Support

Computer Repair

USERS:	ACTIVITIES:
2 Computer Repair Technicians2-4 Students	 Distributing computers Receiving computers needing repair Repairing computers Instructing students on the repair of computers

DESIGN CONSIDERATIONS:

• Design so that there is a direct connection to the Computer Storage Room.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- Blinds for windows
- Power and Data outlets located along perimeter
- Marker Board
- Tack Board

Owner Furnished - Contractor Installed

None

Owner Furnished - Owner Installed

- 2 tall storage cabinets with adjustable shelving
- 2 Modular open offices
- 4 folding tables
- 6 task chairs
- 3 bookcases (height may be dependent on window sill height), with adjustable shelving
- Modular counter designed to receive computers for repair or return and from which to distribute computers at the beginning of school year
- Clock



STERLING HIGH SCHOOL (DRAFT)



Computer Storage

USERS:	ACTIVITIES:
Computer Repair Technicians	Storing Computers

DESIGN CONSIDERATIONS:

• Design so that there is a direct connection to the Computer Repair Room.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Blinds for windows
- Power and Data outlets located along perimeter
- Marker Board
- Tack Board

Owner Furnished – Contractor Installed

None

Owner Furnished - Owner Installed

- 2 tall storage cabinets with adjustable shelving
- Metal storage shelving





STERLING HIGH SCHOOL (DRAFT)





FENESTRATION & INFRASTRUCTURE MATRIX



HISD EDUCATIONAL SPECIFICATIONS STERLING HIGH SCHOOL

SEPTEMBER 16, 2013 CONSTRUCTION AND FACILITY SERVICES FACILITIES PLANNING



STERLING HIGH SCHOOL EDUCATIONAL SPECIFICATIONS (DRAFT)



General Notes

- G1. Provide base as appropriate for flooring material.
- G2. Provide acoustical wall treatment as appropriate for all open, tall and / or noise producing spaces.
- G3. All materials should be easily santized and long wearing.
- G4. Ceiling Heights shall be 9'-0" minimum, 10'-0" maximum, unless noted otherwise on Matrix
- G5. Terrazzo may be used as a floor finish in high traffic areas if project can bear the additional cost.
- G6. Use of carpet in non office areas must be approved by HISD.
- G7. The use of flexible furniture/equipment is encouraged. Built-in casework and shelving should be minimized-generally casework should only be provided where a sink is required.
- G8. All windows in spaces that are occupied on a regular basis shall receive shades or blinds.
- G9. All spaces to which a student may go shall have a visual connection (fixed window, door light or sidelight) to the adjacent space or circulation.
- G10. All spaces shown to receive an electronic whiteboard/projector by Owner should have blocking installed in the wall by the Contractor. The projector is integral to the board.
- G11. Provide acoustical wall treatment as appropriate for all open, tall and/or noise producing spaces.
- G12. Not Used
- G13. Consider the use use of large tackable wall surfaces where tackboard is noted.
- G14. Data drops noted on the matrix do not include wireless acccess or video display connections. See Design Guidelines for number and locations of drops for these devices.

Program Specific Notes

- A. Continue flooring from corridor to front side of reception counter.
- B. Removable interlocking rubber tile floor designed for use in weight rooms shall be provided and installed by contractor over a permanent substrate.
- C. Two duplex outlets located in casework apron at each student station
- D. One duplex and data located for wall mounted display monitor
- E. Locate one set of drinking fountains in adjacent corridor.
- F. Provide floor drain at emergency shower/eyewash station. Provide acid resistant piping and neutralization.
- G. Provide system noted with an * if required for specific curriculum.
- H. Provide lockable storage, including one ventilated cabinet for paints and thinners. Coordinate mechanical for proper ventilation.
- I. Provide large deep sink for cleaning instruments.
- J. Provide large electrically operated, projection screen with projector
- K. Install an eye wash station at sink.
- L. Provide drinking fountain in or near treatment area.
- M. Wall and ceiling finishes of walk-in are by the manufacturer. Floor to match the floor in food preparation area
- N. Provide mop sink in Custodial area.
- O. Provide washer and dryer connections and sufficient ventilation in Laundry area.
- P. Plaster traps at art sinks
- Q. Coordinate HVAC/Plumbing/Electrical requirements with equipment
- R. Provide permanent speaker system
- S. Provide double door with removable mullion at corridor.
- T. Provide floor electrical and data outlets as required by equipment layout.
- U. Provide overhead power grid with pull-down outlets
- V. Provide floor drain(s)



								FINI	SHES								OPENINGS HVAC, PLUMB										PLUMBI	ING AND	ELECTE	RICAL			EQUIPMENT AND SPECIAL SYSTEMS												
				FLOC	OR				PARTITIONS CEILING									DOORS			WINDO	WS HVAC PLUMBING ELECTRICAL									EQUIPM	ENT		В	UILT-INS		SPECI	IAL SYSTEMS		ļ					
	Carpet	Wood	Concrete Polished or Stained		Ceramic Tile	Quarry Tile	Resinous	Kesillent	Gvosum Wallboard	Ceramic Tile	Glass Wall	Markable Wall	Exposed Structure	Acoustical Ceiling Tile	Gypsum Wallboard	Ceiling Height Min/Max		Hollow Metal Wood, plastic laminate	Roll-up, interior glass	Roll-up, interior grille	View Lite Interior	None	Daylighting	Exhaust to exterior	xhaust F	Dust Collection System	Sink Natural Gas (double outlet @ each)	Drinking fountain	Eye wash & Shower	Floor drain	Ouad	Data / Voice	Switching to Allow Multiple Light Levels	Specialty	Lockers	9	Interactive Board	Projection Screen Base Cabinets with	Counters	Tall Storage Cabinets	Built-in Shelves	Phone		Specialty	NOTES
Neighborhoods																																													
Learning Center				Х				x >	X		Х	X X	(Х		9/10	Х	Х	X		Х		Х							8	3	6	Х		2	3	1					Х			
Science Learning Center/Wet Lab				Х				x >	X	(Х			Х		9/10	Х	Х			Х		Х	Х	Х		8 8		1	X 1	.6	10	Х		2	3	1		х	Х	Х	Х			C,F,G
Wet Lab Storage				Х				x >	x	1				Х		8		Х			Х	Х		Х	Х		1 1		1	X 4	4 1	. 1			1	. 1			х	Х	Х	Х			
Flex lab (Grad Lab)				Х				x >	x		Х)	(Х		9/10	Х	Х	X		Х		Х							8	3	6	Х		2	3	1					Х			
Learning Commons/Information Center	Х			Х				>	x		Х)	Х	Х		12/16	Х	Х	X		х х		Х					2 ch	harging	areas v	with 3	quads e	e X		1	. 1	1								D
Learning Commons-Reading Instructional Area				Х				x >	X					Х				Х			Х	Х								8	3	6			1	. 1									
Learning Commons - Circulation				Х				x >	X																																				
Learning Commons / Information Center Storage				Х				x >	X																																				
Lecture Hall				Х				x >	x	1	Х)	(Х		10/12	Х	Х	X		Х		Х							1	2 3	6	Х		2	3	1					Х			
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Special Education Structured Learning Center																																													
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Restroom/Changing Room				Х	Х			>	x					Х				Х			Х	Х								3	3														
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Storage			х	Х				x >	x					X		8		х			х	х								4	4									Х					



								FI	NISHE	S										OPEN	NGS						HVAC,	, PLUMI	BING A	ND ELE	CTRICA	L					EQ	UIPME	NT AN	ID SPECI	IAL SYS	TEMS			
					FLOOR						PARTITIONS	;			CEILI	NG			DO	OORS		WIN	IDOWS		HVAC			PLUMB	ING			ELECTR	ICAL			EQUI	IPMENT		\top	BUIL	T-INS		SPECIAL SYS	TEMS	
	Carpet	Wood	Concrete	Polished or Stained Concrete		Ceramic Tile Quarry Tile	Resinous	Resilient	сми		Ceramic Tile Glass Wall	Markable Wall	Folding Wall	Exposed Structure	Acoustical Ceiling Tile	Gypsum Wallboard Ceiling Height	Min/Max Aluminum	Hollow Metal		Roll-up, interior non- insulated Roll-up, interior grille	View Lite	nterior	None Daylight Exposure	Exhaust to exterior	Fume Hood	Dust Collection System	Sink	Natural Gas Drinking fountain	Eye wash	Floor drain	Duplex	Quad Data / Voice	Switching to Allow Multiple Light Levels	Specialty	Lockers		5 6	Interactive Board		Counters Wall Cabinets	Tall Storage Cabinets	Built-in Shelves	none	Specialty	NOTES
Space Allocation Specific to Program																													_				-											7,	
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CTE - Aviation Operations																																													
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Storage			х					х		Х					Х			х													4						\perp	\perp		'		\perp			
CTE - Auto Technology				х						Х	Х	х			х	10/	/12	Х			Х	х	Х	Х			1		х	х	12 (6	Х			2 3	3	1		'		\perp		S	, T
Storage			х							х						10/	/12	x			x										4														
JROTC Learning Center (Large)				Х				х	Х	Х	Х	х	Х		Х	9/	10		х		Х		Х			T					8	3 6	Х			2	3	1							
JROTC Learning Center (Small)				х				х	Х	Х	Х	Х	Х		Х	9/	10		Х		Х		Х								8	3 6	Х			2	3	1							
JROTC Arms/Weapons Storage				Х				Х	Х	Х		Х			Х				Х		Х										4														-
JROTC Uniform/Drill Team/Color Guard Storage			х					х	Х	х					Х				х		х										4														
JROTC Chair/Table/Target Storage			Х					Х	Х	Х					Х				Х		Х										4														
JROTC Small Group Collaboration				Х				Х	Х	Х	Х	Х	Х		Х				Х		Х		Х								8	3 6				1 :	1								
JROTC Instructors Center				Х				Х	Х	Х	Х	Х	Х		Х				Х		Х		Х								8	3 6				1 :	1					У	X		
Adult Toilet/Shower/Locker				Х		х		Х	Х		Х				Х				Х		Х										2									17					·



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	Carpet	Wood	Concrete Polished or Stained	Concrete	Sports Ceramic Tile	Quarry Tile	Resinous	Resilient	СМО	Gypsum Wallboard	Ceramic IIIe	Folding Wall	Exposed Structure	Acoustical Ceiling Tile	Gypsum Wallboard	Ceiling Height Min/Max	Aluminum	Hollow Metal	Wood, plastic laminate	Roll-up, interior non- insulated	Roll-up, interior grille	View Lite	Interior	Daylight Exposure	Exhaust to exterior	Fume Hood	Dust Collection System	Sink	Natural Gas Drinkning fountain	Eye wash	Floor drain	Duplex	Quad	Data / Voice	Switching to Allow Multiple Light Levels	Specialty	Lockers	Markerboard	Tackboard / Tackwall	Interactive Board	Projection Screen	Counters	Wall Cabinets	Tall Storage Capiners	Phone			Specialty	
/isual Arts																																																	
isual Arts Learning Center				х				Х		Х	Х			Х		10/12	2		Х			Х		Х				2			Х	8	4	6	х			2	3	1		Х	х	У	x x				
Kiln				x				Х		х				Х					Х			Х	х		Х			1			Х	4				Х													
Storage Room				х				Х		Х				Х					Х			Х	Х																					У	(





								FIN	ISHES										OF	PENINGS	S			T			HVAC	PLUMB	ING AN	D ELECT	TRICAL						EQI	UIPMEN	IT AND	SPECIA	L SYSTE	MS		\top	
				FLOC	DR					PAR	TITIONS				CEILING				DOORS			WIN	IDOWS		HVAC			PLUMBIN	IG			ELECTRIC	AL			EQUIPME	NT			BUILT-INS		SPECI/	AL SYSTEMS	7	
	Carpet	Wood	Concrete Polished or Stained	Concrete	Ceramic Tile	Quarry Tile	Resionous	Resilient	CMU		Glass Wall	Markable Wall	Folding Wall	Exposed Structure Acoustical Celling Tile	all g		Aluminum	Hollow Metal	Wood, plastic laminate Roll-up, interior non- insulated	Roll-up, interior grille	View Lite	Interior	None Daylighting	Exhaust to exterior	Fume Hood	Dust Collection System	Sink Natural Gas	Drinkning fountain	Eye wash	Floor drain	Duplex	Data / Voice	Switching to Allow Multiple Light Levels	Specialty	Markerboard	Tackboard / Tackwall	Interactive Board	Projection Screen Base Cabinets with	Counters	wan Cabinets Tall Storage Cabinets	Built-in Shelves	Phone		Specialty	NOTES
PE-Athletics																																													
PE/Athletics Lobby			>	<				Х	X)					Х			Х		Х		Х	Х	Х								8														E
Gymnasium (seating for average program capacity of school)		Х							x >	(Х	(Х			Х								Х	4	2		Х	(1	2						Х			E
Auxiliary Gymnasium (seating for 1/4 of program capacity of school)		Х							x x	(Х	(х			Х								х	4	2		Х	(1	2						х			E
Weight Room				Х					X)	(Х	(Х			Х								Х	4	2		Х	(1	2						Х			
Boys' Athletic Locker Room			>	(Х		Х		X)	(Х	(Х			Х								Х	4	2		Х	(1	2						Х			E
Girls' Athletic Locker Room			>	(Х		Х		x >	(X	(X			Х								Х	4	2		Х	(1	2						X			E
Boys'/Girls' PE Locker Room			>	(Х		Х		x >	(X	(X			Х								Х	4	2		Х	(1	2						X			E
Toilets/Showers			>	(Х		Х		x >	X					X			Х					Х				Х			Х				Х											
Adult Toilet/Shower/Locker			>	(Х		Х		x >	X					Х			Х					Х				Х			Х															
Athletic Director (Office C)			>	(Х	x >	(X					X		х		X								8 1	2	Х		1	2						X			
Office (shared)			>	(Х	X)	(Х	(X		Х		X								8 1	2	Х		1	2						X			
Training Room			>	(Х	x)					×					X		х		X								8 1	2	Х		1	2						X			
Laundry			>	(Х		Х		x >	(X	(Х			Х		Х	Х			1			Х	1			Х							Х			Χ	
PE Equipment Storage			>	(Х	x >	(X	(Х			Х		Х								1														
Athletic Equipment Storage			>	(Х	x >	(X				X			х		Х								1														
Gymnasium, Tickets (Share with Performing Arts?)			>	(Х		Х		x >	(X					X			Х								Х	4	2		Х	(1	2						X			E
Gymnasium, Concessions (Share with Performing Arts?)			>	(Х		Х		x >	(X					X			Х								Х	4	2		Х	(1	2						X			E
Drill Team/Dance Room			>	(Х		Х		x >	(X					X			Х								Х	4	2		Х	(1	2						X			E
Dance Room		Х		X					X)				Х	Х	(16/2	3		X		Х		X								8 3	6	Х			2						Х			R
Dance - Prop Storage			>	(Х	X)					Х	(Х			Х		Х								1														
Dance - General Storage			>	(Х	X)					Х	(Х			Х		Х								1														
Office, Dance Coach			>	(Х	X)					Х	(X		Х		X								8 1	2	Х		1	2						Х			
Dance Locker Room			>	(Х		Х		x >					X					X			Х								Х	4	2		X	(1	2	\Box					Х			E
Dance - Toilet Area			>	< T	Х		Х		X)	X					Х			Х					Х				Х			Х				Х	(





							FINISHE	S						1			OPEN	NINGS						HVA	C, PLUN	/IBING /	AND ELE	CTRICA	L						EQU	IIPMENT A	AND SPI	CIAL SY	/STEMS			\top	
			F	LOOR					PARTITIONS			CEILIN	IG			DOOR	es.		w	/INDOWS		HVAC	:		PLUME	BING			ELECT	RICAL			EQU	JIPMENT			BUILT	-INS		SPECIAL	L SYSTEMS		
	Carpet	Wood	Polished or Stained Concrete	Sports Ceramic Tile	Quarry Tile	Resionous	Resilient	Gypsum Wallboard	Ceramic Tile	Folding Wall	Exposed Structure	Acoustical Ceiling Tile	Gypsum Wallboard Ceiling Height	Min/Max Aluminum	Hollow Metal	Wood, plastic laminate	Roll-up, interior non- insulated	Roll-up, interior grille View Lite	Interior	None	Daylighting Exhaust to exterior	Fume Hood	Dust Collection System	Sink	Natural Gas Drinkning fountain		Floor drain	Duplex	Quad	Switching to Allow	Multiple Light Levels Specialty	Lockers	Markerboard	ğ		Projection Screen Base Cabinets with	Counters Wall Cabinets	Tall Storage Cabinets	Built-in Shelves	Phone		Specialty	NOTES
Administration / Guidance																																											
Administration																																											
Main Reception	х		Х				X)	(X)			Х		Х				Х	Х	2	х							7	2 4	1 X				Х					>	х			A, D
Office A	х)	X				Х				Х		Х		2	х							4	1 2	2 X			1	1					>	Х			
Office C (Principal)	х)	(X				Х				Х		Х		2	х							6	2 4	1 X			1	1					>	Х			D
Principal's Restroom				Х		Х)	(X	Х				Х			Х				Х				1			1	1															
Office B (A.P.)	х)	(X				Х				Х		Х		2	х							4	1 2	2 X			1	1					>	Х			
A.P. Reception / Waiting	х)	(X)			Х		Х				Х		2	х							4	1 2	2 X				1					>	X			
Main Conference Room	х)	(X)			Х		Х				Х		2	х							6	2 4	1 X			1	1					>	X			D
Small Conference Room	Х)	X)			Х		Х				Х		2	х							4	1 2	2 X			1	1					>	X			D
Storage		Х					X)	X				Х				Х		Х		Х								1	1	1													
Health Clinic																																											
Reception/waiting																																											
Office A																																											
Restroom				Х		Х)	X	Х				Х			Х				Х				1			1	1															
Guidance / Student Services																																											
Reception, guidance																																											
Office B (Counselor/Attendance/Registrar/Officer)	Х)	X				Х				Х		Х		2	х							4	1 2	2 X			1	1					>	K			
Conference Room, Small	х)	X)			Х		Х				Х		,	х							4	1 2	2 X			1	1					>	K			
Records / File Room			Х				X)	X				Х				Х		Х		Х								1	1	ιT			1	1				У	()	к			
Admin./Guidance Workroom/Break Room	Х		Х				x >	X				Х				Х		Х		2	х			1			Х	8	2 4	1	х		1	1		Х	Х		х	К			Q
Shared																																											
Professional Development / Data Center	Х		Х				x >	X				Х				Х		Х		2	х							6	2 4	1			1	2					>	К			D
Teacher Work Center	х		х				x >	X				Х				Х		Х	Х	2	х			Х				Х	X >	(X			1	1		Х	Х		>	Х			
New Mothers Room	Х)	(X				Х				Х		Х		2	х							6	2 4	1 X			1	1					>	Х			-
Multi-use / Community Room	Х		Х				x >	(X)			Х	9/:	10 X				Х		2	х							8	4 8	3 X			2	3	1				7	Х			-





							FINIS	HES										OPENI	NGS						HV	AC, PLU	IMBING	AND E	LECTRIC	CAL						EQ	UIPME	NT AND	SPECIA	AL SYSTE	MS				
				FLOOR					PARTITIO	ONS		(EILING				DOORS	;		v	INDOWS		HVA	AC		PLUI	MBING			E	LECTRICAL			-	EQUIPME	NT		F	BUILT-INS	5		SPECIAL SYST	STEMS		
	Carpet	Wood	Polished or Stained Concrete	Sports	Ceramic Tile	Quarry rile	Resilient	Manufacturer's Panels	CMU or GWB Ceramic Tile or FRP	Glass Wall	Folding Wall	Exposed Structure Acoustical Ceiling Tile	oar	Ceiling Height Min/Max		Met	. <u> </u>	Roll-up, interior glass Roll-up, interior grille	View Lite	Interior	None	Daylighting	Exhaust to exterior Fume/Exhaust Hood	Dust Collection System	Sink		Drinkning fountain	ح t	Duplex	Quad	Data / Voice Switching to Allow	Multiple Light Levels	Specialty	Markerboard	Tackboard / Tackwall	Interactive Board	Projection Screen	Base Cabinets with Counters Wall Cabinets	Wall Cabillets	Built-in Shelves	Phone		. Alabara	A	NOTES
Food Service																																													
Food Preparation																																													
Cooler					Х	x x		Х				Mf	r.		Mfr.																														
Freezer					Х	x x		Х				Mf	r.		Mfr.						Х																								
Dry Storage					Х	x x			х			Х				Х	х				Х								Х																
Kitchen Manager's Office					X	x x	Х		х х	Х		Х				Х	Х		Х	Х	Х								2	2	2	х		Х	Х						Х				
Food Prep. / Cook Line		Х			×	x x			Х			Х					х					>	x x		Х			Х	as re	equired	l for equ	ipt													
Laundry Area		Х			Х	x x			х х			Х				Х	Х				Х)	K					Х	1		1	х													N,O
Custodial		Х			Х	x x			х х			Х				Х	Х				Х)	K		Х			Х	1																N,O
Locker Room		Х			X X	x x			x x			Х				Х	Х				Х	>	K		Х			Х	1		2	х	Х		Х						Х				
Restroom		Х			X X	x x			x x			Х				Х	Х				Х		Х				Х	Х	1																
Serving Area		Х			X	x x			X X			Х				Х	Х	Х		Х		>	K		Х			Х	X	Х	1 per PC	os					\perp					$\perp \perp$			
Student Dining																																				Ш						$\perp \perp$			
Commons Area			Х				Х		Х		Х	х х	Х	16/20		Х	Х	Х	Х	-		Х					Х		12	4	4	х		Х	Х						Х	$\perp \perp$			R
Storage		Х	X				Х		Х							Х	Х			Х	Х								1													$\perp \perp$			
Stage	\	Κ					X		х			Х				Х	X												3	6	5)	(Х					ı I			,





								FINIS	HES										OP	ENINGS							HVAC,	PLUMB	ING AN	D ELEC	TRICAL						EQU	JIPMEN	IT AND	SPECI	AL SYST	TEMS				
				FLOO	R					PAR	TITIONS		c	EILING				DO	DRS			WIND	ows		HVAC			PLUMBIN	IG			ELECTR	IICAL		EQL	JIPMENT				BUILT-IN	s		SPECIAL S	SYSTEMS		
	Carpet	Wood	Concrete Polished or Stained	Concrete	Ceramic Tile	Quarry Tile	Resinous	Resilient	СМО	Gypsum Wallboard	Ceramic Tile or FRP	Forming Wall	Acoustical	Gypsum Board	ght	Min/Max Aluminum	Hollow Metal	Wood, plastic laminate	Roll-up, interior non- insulated	Roll-up, interior grille	View Lite	None	Daylight Exposure	Exhaust to exterior	роон	Dust Collection System	Sink Natural Gas	Drinkning fountain	Eye wash	Floor drain	Duplex	Quad Data / Voice	Switching to Allow Multiple Light Levels	Lockers	Markerboard	Tackboard	Interactive Board	Projection Screen	Counters	Wall Cabinets	I all Storage Capinets Built-In Shelves	Phone			Specialty	Notes
Custodial / Maintenance																																														
Receiving Entry			Х						Х				Х		16/	20	Х		Х		х								Х	Х	4	1										Х				
Plant Engineer Office			Х					Х	Х	Х			Х				Х				X 2	(Х								4	2 2	Х		1	1										
Custodial / Maintenance Storage			х х					Х	Х	Х			Х				Х				х	Х								Х	6	1			1	1										
Supply Storage																																														
IT Support			Х					Х	Х	х			Х				Х				х	Х	Х								12	4 6			1	1										
Custodial Closets			х		Х		Х		Х				Х	Х			Х	Х				Х								Х	1															N





								FINISH	IES											OPEN	IINGS						-	HVAC, F	PLUMBI	NG AND	ELECT	ΓRICAL							EQUI	PMENT	AND SE	PECIAL S	SYSTEN	1S			
				FLOOI	R					PARTIT	IONS				CEILING	3			DOOF	RS		v	VINDOWS	s	HV	'AC		-	PLUMBING	i			ELECTR	ICAL			EQU	JIPMENT			BU	ILT-INS		SPEC	CIAL SYSTEMS	ıs	
	Carpet	MooW	Concrete Polished or Stained	Concrete	Ceramic Tile	Quarry Tile	Resionous	CMU	Gypsum Wallboard	Ceramic Tile	Glass Wall	Markable Wall	Folding Wall	Exposed Structure	al Ceiling	Gypsum Wallboard Ceiling Height	Min/Max Aluminum	Hollow Metal	1 75 13	insulated	View Lite	Interior	None		Exhaust to exterior	Dust Collection System	Sink	Natural Gas	Drinkning fountain	Eye wash	Floor drain	Duplex	Quad Data / Voice	ing to	Specialty	Lockers	2	ard / Tacl	Interactive Board	Projection Screen Base Cabinets with	Counters Wall Cabinets	Tall Storage Cabinets	Built-in Shelves	Phone		Specialty	NOTES
Building Support																																															
Corridors			х х				>	х	Х		Х		Х	Х	Х		Х	Х	Х	Х	(X		Х	Х					Х			x :	х					Х			Т		Ì	X X			
Student Restrooms			х		Х		Х	Х	Х		Х					х		No D	oors							Х	(X				х	x :	х х											X X	(
Adult Restrooms		2	х		Х		Х	Х	Х		Х				Х	Х			Х							Х	(X				Х	X :	х х											X X	(
Stair, Main / Open		2	х х				Х	Х	Х		Х			Х	Х	Х		Х			Х			Х																							
Stair, Exit			х х				X	X						Х		х		Х			Х			Х																							
Mechanical Room			х					Х						Х									Х										1 2														
Electrical Room			x				X	Х	Х					Х									Х										1 2														
Building Data Room			x	\perp			X	x	Х		Х			Х									Х																								
Elevator							Х	х					N	∕Ift Sta	andard								Х																								3
Elevator Machine Room			x				>	X						Х	Х			Х	Х			Х																						X	(
IT Support																																															
Computer Repair			Х				>	X	Х		Х	Х	Х		Х	9/1	0 X		Х	Х	(X			Х								8	3 6	Х			2	3	1					Х			
Computer Storage Room			X	:			>	X	Х		х	Х	х		х	9/1	0 X		Х	X	(X			х								8	3 6	Х			2	3	1					Х			