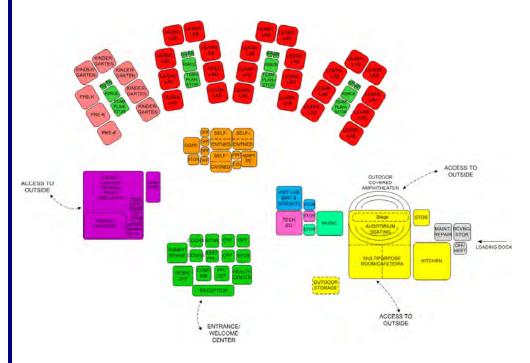




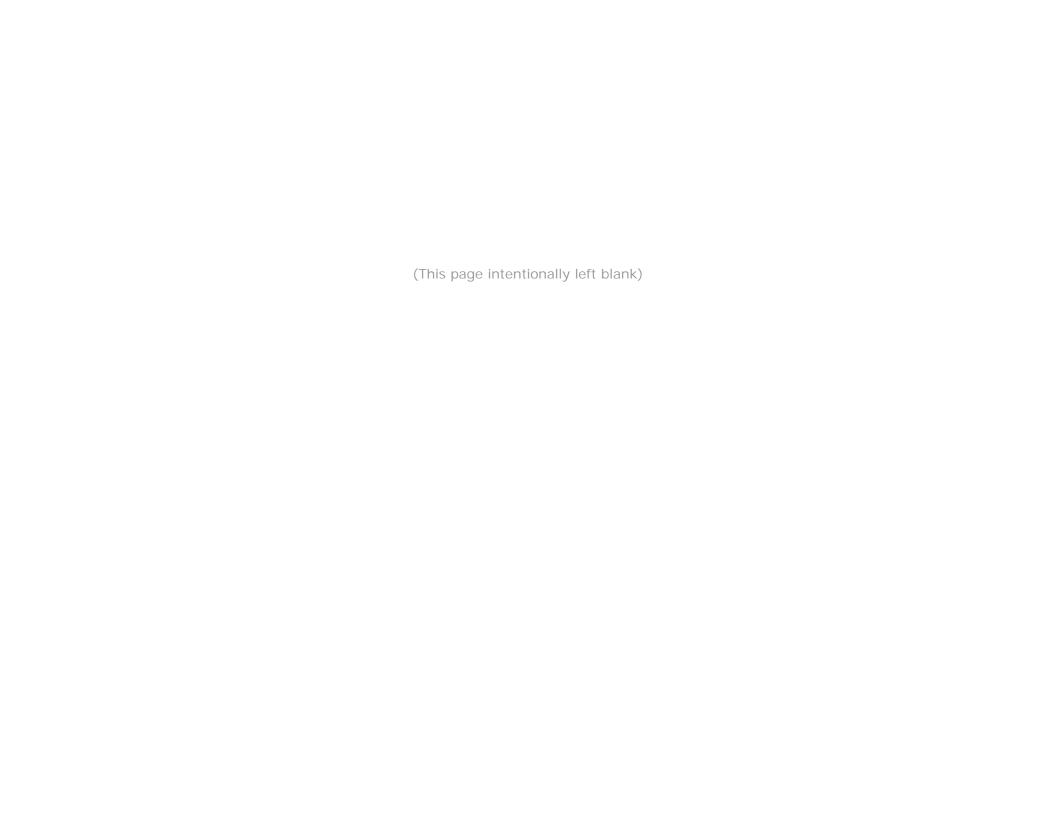
Long Beach Unified School District

Elementary School Educational Specifications

Final – January 2008







ACKNOWLEDGEMENTS

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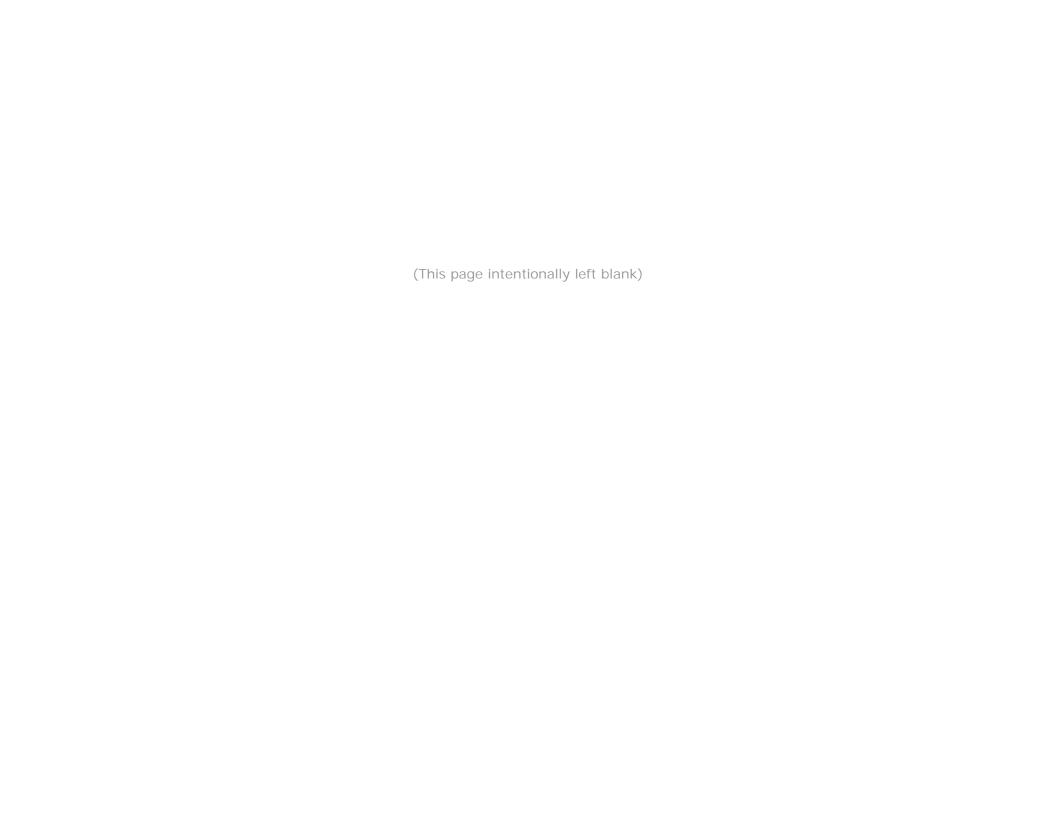
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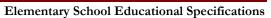
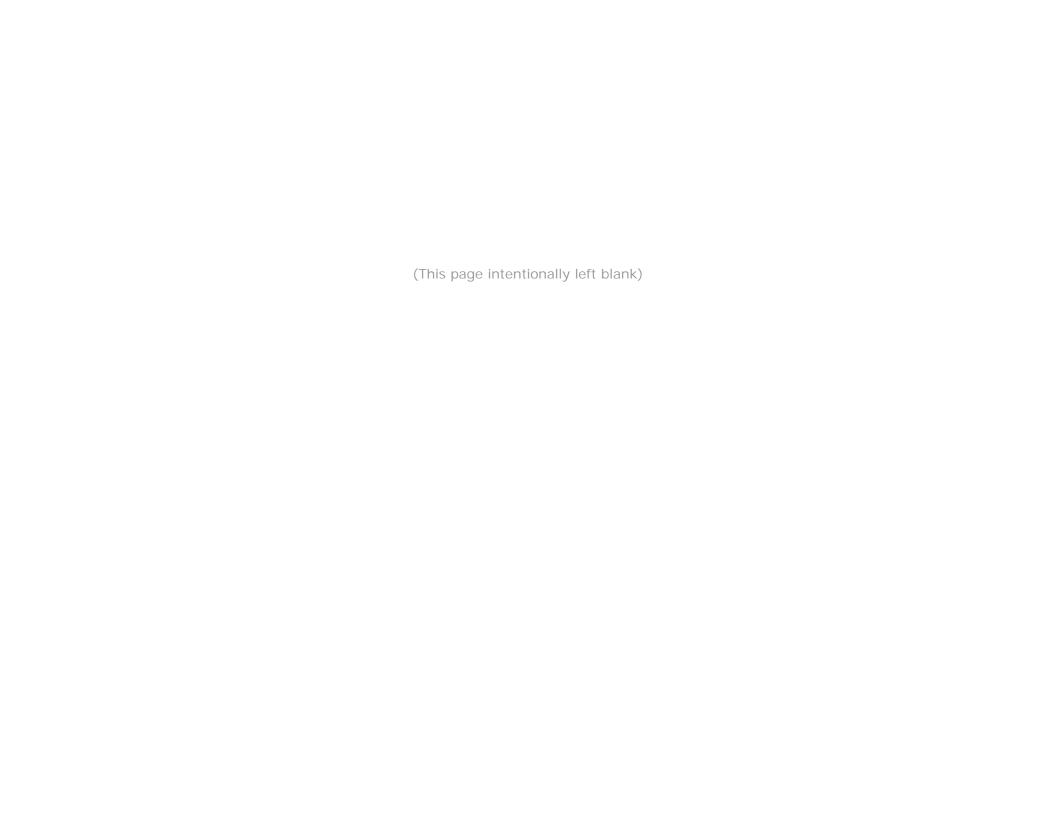


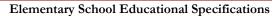


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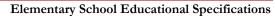
Introduction

This Elementary School Educational Specification is a critical component of the Long Beach Unified School District Facility Master Plan. Developed as a component of that overall process, the Educational Specification is a detailed outline of essential components of each elementary school facility to be built in Long Beach as part of the Facility Master Plan. It is a City-wide statement, and will apply to all upcoming elementary school projects, but will be adjusted as appropriate to the needs of each individual school construction project.

An Educational Specification outlines essential educational concepts and detailed facility needs. It includes considerations of community values, current and future instructional strategies, impact of technology on education, and cost constraints.

Although this Educational Specification is intended to guide elementary school construction for the next several decades, it should be regarded as a living document, in need of periodic update. For each separate school construction project, there is need and opportunity to adjust this document to apply to site specific circumstances. Additionally, specifics of the educational specifications should be updated every few years to address enrollment trends, construction costs, changes in programs offered, and staffing configurations.

This has been written to cover elementary needs across the entire city. It is without reference to any specific school site, and is applicable to both new construction and renovation projects. It does contain highly articulated ideas of critical components and organizational concepts for successful elementary school facilities. Some existing school buildings and certain components of others may not be able to be reasonably modified to continue in service. Overall judgments of appropriateness have been included in the recommendations of the Facility Master Plan, but each specific project will require further detailed consideration, and perhaps adjustment of the Educational Specification, as part of its design process.





Document Overview

This Elementary School Educational Specifications document is organized into distinct sections, containing information necessary for the planning, design, and construction of new school facilities. Those sections are as follows:

Executive Summary – The Executive Summary is an overview of the content of the Educational Specification document.

21st Century Best Practices – Information pertaining to nationally recognized best practices in education specifically as they relate to program delivery methods is included here.

Technology– A summary of the Long Beach Unified School District's Technology Plan will provide an understanding of how technology will be integrated into the curriculum and the facility.

Safety and Security – This section reflects an overview of the safety and security considerations.

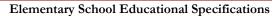
Site Issues – Any special circumstances or considerations are important when designing a school. The design, traffic flow, lighting, landscaping, and parking issues are all addressed in this section.

Aesthetics – This section describes the visual appeal of each elementary school.

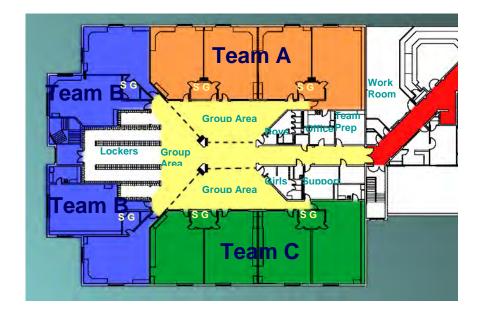
Community Use – Understanding community needs and integrating those needs into school facilities is an important aspect for all school districts. Various uses and programs are described in this section.

Program Areas – A summary of the types, number, and sizes of each instructional and support space (i.e. Space Requirements) is included with spatial relationship illustrations for each program area.









designed to create smaller communities or pods within the larger community. Flexibility was important in the planning of the elementary educational specification and is reflected in the space requirements. The space requirements chart provides space for a 400, 550, 700, 850, or 1,000 student school. The school administration has the ability to choose which capacity is appropriate for each elementary facility.

Executive Summary

An elementary school facility should provide a nurturing but challenging learning environment, incorporating a multitude of teaching/learning styles, and encouraging respect for every individual. The ultimate goal is to create an active learning environment where students can develop the necessary skills and aptitude to become life-long learners and be technologically literate.

Long Beach Unified School District's Elementary School Educational Specifications represent the School District's guidelines and criteria for its new and newly renovated facilities. Elementary School Educational Specifications are





Elementary School Space Requirements

The space requirements chart below lists program area to be included in an elementary school facility of 400, 550, 700, 850, and 1,000 students.

Elementary School Educational Specifications

Average Class Size PK 20 K 20 1 20 2 20 3 20 4 25 5 25 Average 21.4

Square Ft/Student				
		SF per		
# Students	Total SF	student		
436	48,048	110.2		
572	63,888	111.6		
730	78,732	107.8		
867	94,392	108.9		
1,024	109,212	106.6		

Average Class Size PK 25 K 25 1 25 2 25 3 25 4 25 5 25 Average 25.0

Square Ft/Student				
		SF per		
# Students	Total SF	student		
508	48,048	94.6		
666	63,888	95.9		
849	78,732	92.7		
1,007	94,392	93.7		
1,190	109,212	91.8		

Elementary School Spaces	Suggeste for 400 S	ed Spaces Students		ed Spaces Students	Suggested 700 St			ed Spaces Students		ed Spaces Students
	TS*	Total SF	TS	Total SF	TS	Total SF	TS	Total SF	TS	Total SF
Core Academics	20	23,650	26	31,650	33	41,400	39	49,200	46	58,350
Special Needs	1	2,130	2	3,310	3	4,490	4	5,670	5	6,850
Media Center	0	3,250	0	3,250	0	3,750	0	3,850	0	4,350
Visual Art/Wet Lab	0	0	1	1,200	1	1,200	1	1,200	2	2,400
Music	1	1,400	1	1,400	1	1,400	2	2,600	2	2,600
Tech Ed/Computer	1	1,200	1	1,200	1	1,200	2	2,400	2	2,400
Welcome Center	0	2,210	0	2,580	0	3,320	0	3,440	0	3,560
Food Service	0	4,800	0	7,050	0	7,050	0	8,100	0	8,100
Custodial	0	1,400	0	1,600	0	1,800	0	2,200	0	2,400
Sub Total		40,040		53,240		65,610		78,660		91,010
Building Services, Circulation, etc.	20.0%	8,008	20.0%	10,648	20.0%	13,122	20.0%	15,732	20.0%	18,202
Total	23	48,048	31	63,888	39	78,732	48	94,392	57	109,212

^{*}Teaching Station

CAPACITY CALCULATIONS Based on Class Size Average of 21.4

Regular TS [Teaching Stations]	20	26	33	39	46
Students Per TS	21.4	21.4	21.4	21.4	21.4
Sub Total Regular	428	556	706	835	984
Special Needs TS	1	2	3	4	5
Students Per TS	8	8	8	8	8
Sub Total Special Needs	8	16	24	32	40
Total	436	572	730	867	1,024

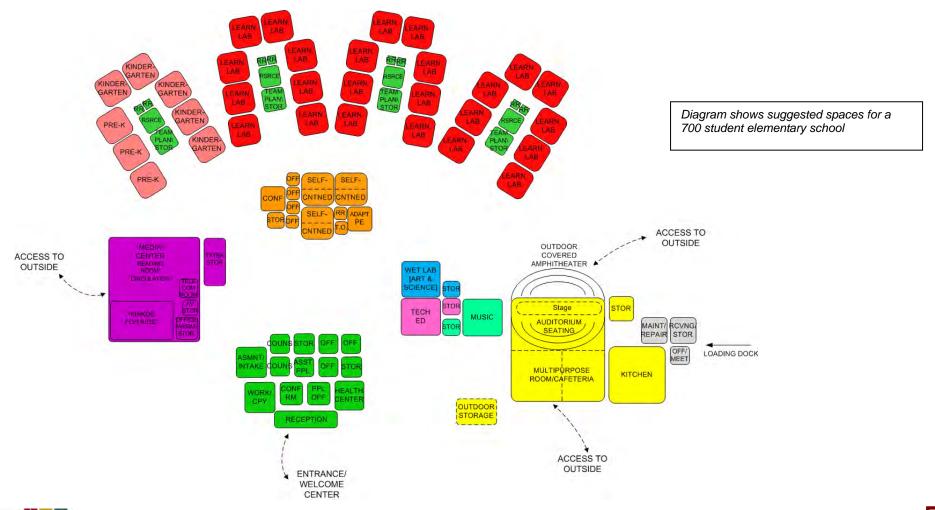
CAPACITY CALCULATIONS Base on Class Size Average of 25.0

Regular TS [Teaching Stations]	20	26	33	39	46
Students Per TS	25	25	25	25	25
Sub Total Regular	500	650	825	975	1150
Special Needs TS	1	2	3	4	5
Students Per TS	8	8	8	8	8
Sub Total Special Needs	8	16	24	32	40
Total	508	666	849	1,007	1,190





This overall drawing provides an idea of how the entire building might be configured. The drawing is a conceptual diagram, applicable to both new construction and existing buildings. The pod concept might be interpreted as separate floors, or wings, within existing or as new construction, as existing conditions and site constraints determine. The pods can be clustered by grade (2-3) or in learning communities (K-5). Some schools may be configured as primary learning centers. (PreK-2)







Program Area Overview

Listed below is an overview of each program area to be included in the Pre-K-5 facilities in Long Beach. Special features of the school, such as furniture, equipment, technology, and site are also described.

Administration/Student Services

Immediately upon entry, visitors will be greeted in the Administration "welcome area." The principal and support staff offices and guidance services will be located in a centralized area at the main entrance of the school.

Core Academics & Special Needs

The learning community 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 in a cluster or community, 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 basic organizational unit for this school will be the learning community, consisting of general-purpose learning labs or classrooms, teachers' center, small group rooms and tutoring offices, self-contained special needs rooms, and resource rooms.

The learning communities can be organized based individual grade level (i.e. a K, 1st, 2nd, 3rd, 4th, and 5th grade community) or grade groupings (i.e. 2nd & 3rd,

4th & 5th, etc.). The learning communities should be located around the Media Center and away from noisy spaces like the Gymnasium and Cafetorium. Special attention will be given to accessibility of all educational and support spaces and an integrated learning program.

Media Center

The Media Center serves a dual role. Its traditional role is a place to conduct research and for learning. Its new role is to serve as a technological information base. In this new role, the Media Center houses a transparent voice/video/data network, which runs throughout the entire building. This network enables the transmission of media services to the desktops of teachers and students without them physically entering the media center. This area is changing from a "depository of books" to a "technology information distribution 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.



Visual Arts

The art curriculum will be accommodated in teaching spaces designed to provide workspace and storage areas.





Music/Performing Arts

Music and Performing Arts is a dynamic part of any curriculum, providing students with an opportunity to improve their creative skills. Design, flexibility, and acoustics should be especially considered when planning these spaces. Further, since the community will use these spaces, location of the cafetorium/stage should be strategically placed within close proximity to the main entrance.

Cafetorium / Student Dining

This area is planned as a flexible muti-purpose room that can accommodate student dining, performances, assemblies, physical education, and community meetings. It is proposed, through creative design, that this area will effectively house multiple functions with seating space for all uses.

These spaces 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.

Community Spaces

School buildings are often viewed as centers for the community. To facilitate community involvement, a PTO room is provided.

Special Features

Corridors and Commons Spaces

The front entry lobby should be welcoming and inviting for students, staff, and visitors. Extensive display systems should be provided for 2-dimensional and 3-dimensional student work and awards. Finishes should be durable and easy to maintain. The scale of all spaces should be child-friendly. Colors, artificial lighting, and natural day lighting should be managed artfully to create an environment that communicates that school is a very special place.

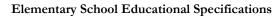
Furniture & Equipment

Classrooms vary in shape and size; therefore, the furniture should be flexible to accommodate a variety of classroom formats for both individual and group activities. Teachers and students should have storage space for personal belongings, papers, and books as well as storage for supplies and materials. Work areas exist with direct access to copiers, multi-media equipment, and telephones. Teacher preparation areas should be located in close proximity to classrooms to permit, encourage, and enhance student and teacher interaction.

Technology



The facility will 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 the desk of the student, and computer technology will be distributed in every classroom. It is intended that access





to technology will be seamless and pervasive throughout the building. The Media Center will serve as the hub for technology distribution.

Handicapped Accessibility

The entire facility will be accessible for all students, staff, and visitors. This will 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, and universal accessibility of all indoor and outdoor school facilities.

Aesthetics & Flexibility of the Learning Environments

Constructing the indoor and outdoor structures and spaces where students go to school today must meet many challenges and expectations. The aesthetics should reflect, first and foremost, 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 its students and community. Areas within the school should be developed to have clear organization and internal identity.



The facility should capture the students, making them feel that the space is special, and therefore infer that each individual 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 resemble a place for academic success, high self-esteem, social interaction, and physical safety. The facility layout should be especially easy to comprehend and reflect how classes relate to one another. Spaces should be provided for positive socialization among students and with teachers.

Variety of Instructional/Learning Spaces

Space needs for ongoing student assessments and emerging, more active learning methods results in a greater variety of spaces for learning. These include teacher team planning centers, multi-use rooms, and instructional materials storage rooms.

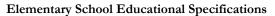
Spaces should be designed to allow for flexibility in educational delivery, size of student grouping, noisy collaborative student activities, and increasingly intensive reliance on computer technology. Spaces should allow students to work independently and collaboratively, give and/or receive tutoring, as well as accept instruction. Consideration should also be given to serving students of various ages.

Learning lab/classroom spaces in the elementary schools have been planned for 25 students in general instruction, 12 in Pre-K, and 8 in low incident special education spaces.

Staffing Patterns

The predominant staffing pattern in the School District consists of classroom teachers for most contact with







most students, supplemented by specialist teachers and professional for exploratory learning and focused interventions. The latter are undertaken in separate specialized spaces and, wherever possible, through inclusion in the classrooms. As programs and groupings change, a more differentiated staffing pattern may emerge with lead or master teachers and more specialists and paraprofessional facilitators. The key is to embrace flexibility so that student needs will be met.

Facility Change Should Be the Norm

Many school planning configurations of multiple, isolated classrooms make changes and additions cost-prohibitive and, once a building is constructed, often difficult to accomplish. Facilities should be constructed in a manner in which change and flexibility is the norm, not the exception. Building materials and furniture should be selected to support these concepts as well. The challenge of developing flexible space directly impacts the budget and space requirements. Developing flexible and common areas will impact all program areas and must be weighed for their effectiveness. In order to realize the full potential of a building's flexibility, staff training needs to occur on how the building might be used to meet the needs of students most effectively.

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.

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 The use of the building belonging and pride. 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. Color, building materials, furniture, and landscaping should be selected carefully to develop a pleasing and inviting atmosphere.

The learning environment should be student-centered and designed for "hands-on learning," promoting student autonomy and independence. Space for active participation should be incorporated, with classrooms providing opportunities for integrating disciplines and easy access to tools of exploration. The outdoor site should serve as a pro-active learning environment as well.



New vs. Existing Buildings

The concepts found herein can be applied to new construction as well as the renovation of existing facilities. It is important to point out that achieving the educational and facility concepts should be the primary goal, which may result in the need to modify some of the square footage guidelines. The final determination for modifications should be: Does the space meet the academic needs of the students?











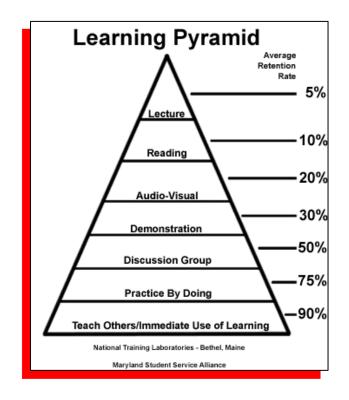
Overview of 21st Century Best Practices

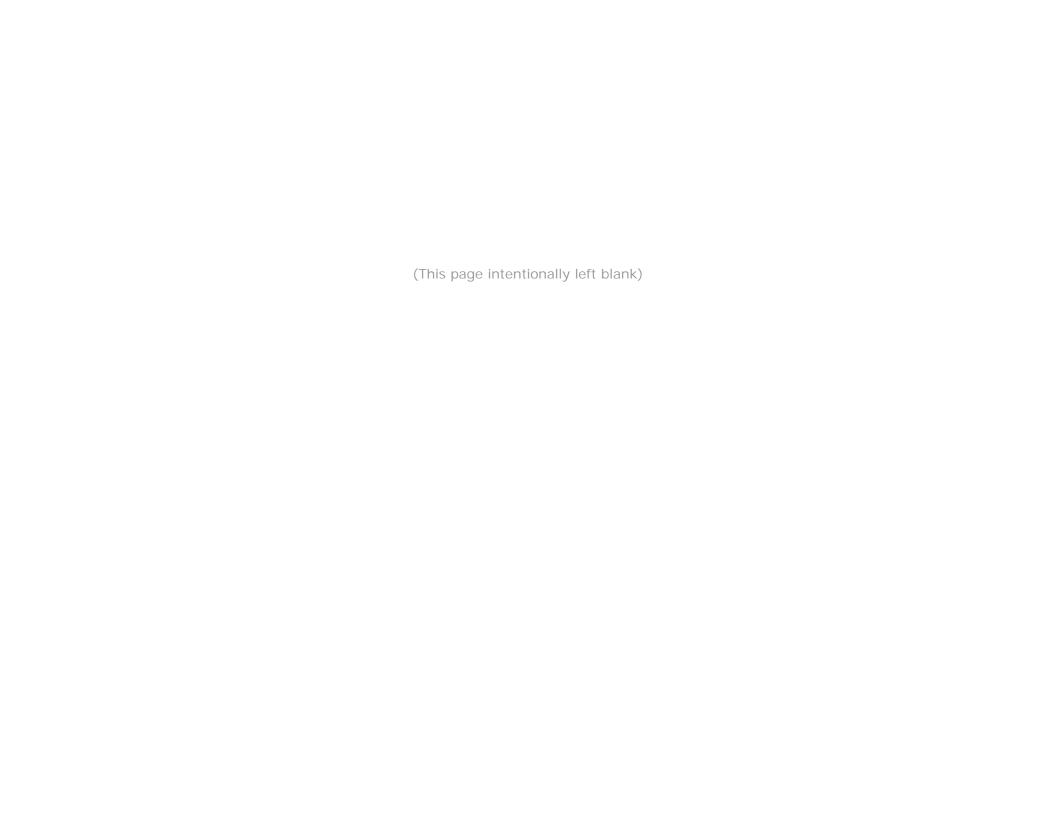
As a result of the transition to the information age as well as the aging of facilities, school districts are investigating curricula, organizational models, current and emerging technologies, the role of administration and their local communities to determine the effect each of these has on student performance.

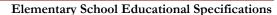
Investigations have resulted in "best practices" that suggest the following:

- Curriculum: Offer essential knowledge, integrate it, and make connections to real life
- Organizational Models: Provide student-centered pod approach
- Technology: Create pervasive and integrated system
- Administration: Increase student contact and flexibility
- Community Use: Instill a sense of participation, ownership, and pride
- Student Groupings: Schools should organize facilities into houses, pods, or clusters.
- Student Services: Schools should continually evaluate the services they provide in order to meet the changing needs of their students.

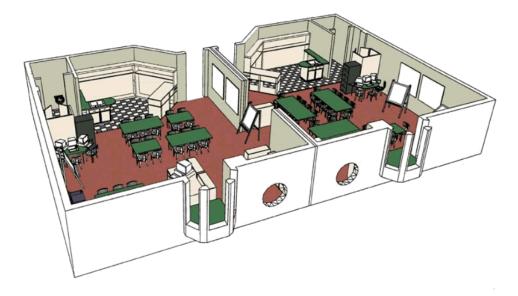
While these "best practices" are not intended to be solutions to all of the issues confronting schools. It is shown that school districts that choose to provide students with new educational opportunities have experienced marked improvement in student achievement.











21st Century Best Practices

Public education is at a unique point in history. We have transitioned from the industrial age to the information age, and as most organizations have already done school districts across the country are considering changing the way they do business. School districts are investigating curricula, organizational models, current and emerging technologies, the role of administration, and their local communities to determine the effect each of these has on student performance.

These investigations have resulted in a series of educational "best practices" intended to provide students with the greatest opportunity for success. Implementing educational "best practices" can have a significant impact on facilities.

The following describes a few educational "best practices", cites examples where they have been implemented, and expresses the impact each has on facilities.

Curriculum

Offer Essential Knowledge, Integrate It, and Make Connections to Real Life:

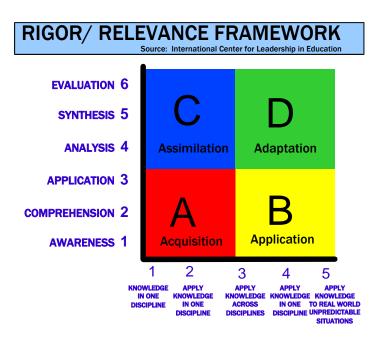
- Based on federal and state content standards
- Require content areas to be linked to one another
- Accommodate multiple-intelligences and learning styles
- Demand critical thinking and problem-solving
- Incorporate pervasive technology
- Utilize multiple performance assessments

Best Practice: "Best practices" suggest that the core of the elementary school curriculum must offer both the substance and the practicality to prepare students for an uncertain future. The curriculum should strive to meet individual needs without compromising larger goals. Dr. Willard Daggett, President of the International Center for Leadership in Education and a national expert on education, claims that schools should "make education rigorous and relevant for all students." Daggett uses a Rigor and Relevance Matrix to categorize curricula into one of four quadrants. Daggett defines rigor as the level of Bloom's Taxonomy achieved in any given lesson. He defines relevance as a continuum ranging from "knowledge in one discipline" to "applications to real-world unpredictable situations."





Facilities Impact: Adopting curricula that offer essential knowledge, integrated approaches, and connections to real life can have a significant impact on facilities. Facilities may require student production spaces for the creation of projects, small group rooms for collaboration, and large group presentation spaces for students to show their work.



Organizational Models:

Provide Student-Centered House Approach

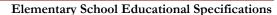
Best Practice: Student-centered approaches provide students with a variety of opportunities to learn and develop skills and competencies based on their individual needs. Organizational models such as grade-level teaming, schoolswith-in-a-school, and thematic approaches often characterize these student-centered approaches.

"Best practices" might suggest that facilities be organized into pods, instructional units comprised of classroom spaces, student production spaces, and teacher preparation areas. "Best practices might also suggest that double-loaded corridor designs cannot provide the flexibility necessary to accommodate multiple organizational models nor can they foster the same level of cooperation, teaming, and sharing of professional resources as house designs.

Examples

- Grade-Level Teaming: Grade-level teaming is based on organizing the building into separate grade-level units. Grade-level teams typically utilize an interdisciplinary approach.
- * Thematic Teaming: Thematic teaming is based on delivering curriculum within the context of a specific theme. Themes may include Science and Math, Fine and Performing Arts, or Foreign Language and Literature.
- * Looping: Looping is based on teams of teachers staying with the same students for two years.







Facilities Impact: Implementing these organizational models, specifically the house concept, offers significant advantages to the delivery of curriculum and observation of students. While the impact implementing the house concept has on facilities is continually being evaluated in terms of major systems, it typically should not outweigh the educational advantages.

<u>Technology</u>

Create Pervasive and Integrated Systems

- Access to voice, video, data, and electrical outlets provided in every instructional space
- Proficiencies incorporated into other content areas
- Utilize distance-learning opportunities
- Staff development

Best Practice: Technology continues to evolve and influence education. Technology has traditionally been perceived as a stand-alone content area with its own dedicated spaces. "Best practices," however, might suggest that technology should be incorporated into every learning space and into all curricula. Incorporating technology can accomplish two basic goals of education: linking traditionally isolated content areas and providing teachers with tools to explore more of Howard Gardner's multiple intelligences in their lessons.

Howard Gardner has indicated in "Frames of Mind" that there are several different types of intelligences (linguistic, mathematical, musical, kinesthetic, spatial, intrapersonal, interpersonal, and natural intelligence). Each person has strengths in some intelligences and weaknesses in others. Experts have indicated that students retain more information

when several intelligences are involved in the learning process. For example, The NTL Institute for Behavior Science reports that students retain only 10% of what they read, but retain 90% of what they read, see, hear, experience, and teach.

Facilities Impact: Incorporating technology into all learning spaces and into all curricula can have a significant impact on facilities. First, all learning spaces would require access to voice, video, data ports, and electrical outlets. Second, infrastructure must be designed in such a way to allow access for maintenance and upgrades as technology continues to evolve.

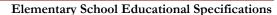
Administration

Increase Student Contact and Flexibility

Best Practice: As a result of recent violent crimes occurring in school facilities, school districts across the country are searching for both active and passive means of security. While not the only reason, "best practices" suggest that decentralizing administration serves this purpose. The decentralization of administrative services also provides the flexibility and opportunity for increased student contact, decreased student anonymity, and opportunities for passive supervision.

In addition, assistant principals, deans, and counselors form teams, are closer to the student and teacher, and can more efficiently use their time, expertise, and resources because their offices are located in the academic clusters. Communication between administrators is no longer an issue as access to instructional information and student records







and maintaining a positive and secure school environment can be achieved through the effective use of technology.

Facilities Impact: Decentralizing administration affects facilities only by the necessity to relocate offices and support spaces within each learning community and/or other areas.

Community Use

Instill a Sense of Participation, Ownership, and Pride

- Cooperative Alliances
- Youth Services
- Shared Decision-Making
- Community Service Volunteers
- Parent Involvement
- School/College Partnerships

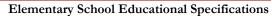
Best Practice: "Best practices" suggest that facilities should serve not only as an instructional centers for students, but also as user-friendly centers of the communities. Facilities should provide programs and access to resources for adults, businesses, and other community organizations. Community/school partnerships are playing an increasing role in elementary school facilities. These partnerships provide students with expanded learning opportunities, professional development opportunities for staff, and a venue for community activities.

Facilities Impact: Providing access to and forming partnerships with the community can have a significant impact on facilities. Additional spaces such as parent or community volunteer rooms, community locker rooms, and storage spaces may be necessary. In addition, for security purposes, community access may require careful attention to

the organization of the facility. Community accessible portions of the facility may need to be located in areas that permit the remainder of the facility to be secure before, during, and after school hours.











Technology

Today, technology is used extensively to help students learn basic and critical thinking skills. In the future, the applications and capabilities of educational and information management technology will increase dramatically. Today, the majority of jobs require at least some technology proficiency and as such, it is expected that students will leave school with the ability to work with and use technology.

The implementation of voice, video, and data throughout school facilities is becoming a standard in schools across the country. Appropriate and strategically designed and installed technology will greatly enhance the teaching and learning of basic skills and position a school to take advantage of technological developments in the future.

To take advantage of technology, schools will need comprehensive staff development programs and training; student access to technology applications; updated hardware and software in computer labs, classrooms, and media centers; updated school wiring and internet access; integration of technology into the academic content standards; home to school access; technical support personnel at the school level; and a security system that encourages use and protects the investment.

It is also important for schools to hire new teachers who already possess the required technology skills expected of teachers in the school department. Teachers and administration should also attend periodical technology inservices to make sure they know how to use the latest technologies.

All classrooms should be multi-use/multi-purpose with invisible technological support. There should be a seamless web of technology to support the classroom management between administration, teachers, students, and the home.

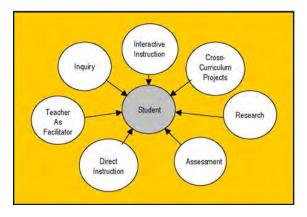






Research suggests that multi-sensory teaching is most effective in mastery of basic skills. Technology supports visual, auditory and experiential learning; therefore, it is recommended that all instructional spaces have voice, video, and data accessibility. This access enhances the flexibility of the learning environment to respond positively to alterations in the use of space. The wiring and other infrastructure components should be the first priority since terminal devices can be added later; however, wireless networks can also be added as the need arises. The facility should have surplus electrical power capacity and network wiring/bandwidth to permit expansion of technology.

It is important to note that all students demonstrate technology skills appropriate to their grade level. Students in will be expected to possess, as defined and assessed through authentic learning opportunities, applicable technology standards as outlined in the Providence Public School Department Technology Plan.



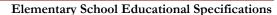
Technology Components

Voice: Telephone and voice communications in every classroom and workspace to support internal and external communications

Video: Video distribution and video streaming in every classroom and throughout the building with interactive video capabilities to support whole and small group instruction, distance learning, and providing access to a wide range of internal and external resources

Data: Data retrieval capabilities in every classroom and throughout the building as well as network capabilities Citywide and to other external resources (i.e. Internet) Today's schools are being wired and equipped to support management and instructional applications. Current voice, data and video systems can provide leadership, instruction, data management, internet access, and student services which go far beyond the systems in schools that were constructed as recently as the late 1980's. Technology is becoming increasingly useful and appropriate to the student and the educator. As home and business worlds move into higher levels of technological applications, it is critical for schools to be equipped and play a leadership role in the integration of technology into the teaching, learning, and communication processes.

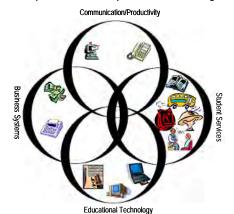






Applications of Technology

Technology has four primary applications within the school environment. These applications have the potential to have a positive impact on every aspect of the educational processes



found in school. The following table illustrates the four primary applications that interface with each other and some examples of educational applications in each area.

Student Services:
Schedules, Grades,
Attendance,
Counseling,
Transportation, Food
Services
Business Systems:
Accounting, Payroll,
Inventory

Technology & The Learning Environment

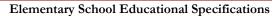
Technology greatly enhances the learning environment. Technology, in the typical classroom, can support multiple instructional designs.

Whole Group Instruction [20-36 students] --This includes the use of overheads, DVD players, 36-inch computer/TV monitors, PVP video/computer projectors, LCD flat panels and various forms of computer display techniques.

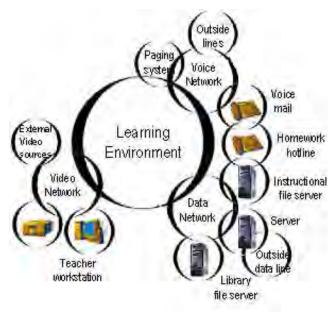
Small Group Instruction [6-8 students] This includes areas in the classroom and in shared common spaces, which a teacher or another resource person can work with groups of 6-8 students. The technology is essentially the same as whole group instruction technology, the only difference being the size of the groups.

Individualized Instruction [1-2 students] This is primarily a computer-based instruction design where students interact with a computer workstation. As all forms of technology become more and more digitized, it is envisioned that these will become multi-media workstations that integrate voice, video, and data formats as well as having high speed internet access.

The diagram that follows represents typical technology applications found in schools today.







Classroom

It is recommended that all classrooms have voice, data, internet, and video accessibility. This will enhance the flexibility of the learning environment to respond positively to alterations in the use of space. The wiring and other infrastructure components should be the first priority since terminal devices can be added later with the exception of wireless networking which can be added as the need arises. The facility should have surplus electrical power and cooling capacity to permit expansion of technology. Infrastructure, systems and cabling are typically funded as capital projects.

The following components should be included in each classroom:

- One teacher workstation with voice, data, and video
- CAT 7 data drops with LAN, WiFi, and Internet with 6 fiber for future expansion
- Electric power availability [one quad per drop] and/or raceway wiring system to support 4-6 student computers
- Added cooling systems to offset the heat generated by the computers
- One video drop with mounted video/LCD projector
- One voice drop with telephone
- Possibly, preparation for future [25-30 data drops]
- Face plate switches
- Audio classroom enhancements
- Student computer work stations
- DVD port
- Wireless
- A/V plate on wall near teacher station
- Floor plate with power an data drop near teacher station

Careful attention should be given to furnishings, i.e., student desks, specialized or customized cabinetry, location of data ports, white boards, document cameras, and monitors.







Electronic Media Studio

The electronic media studio equipment includes all of the devices to operate or control the video and media center system. Equipment will be able to be "checked in/out" of the studio. In addition, the room will be the centralized archive of student digital portfolios.

The equipment located in the electronic media studio includes:

- Video control systems
- CD-RW, DVD-RW
- DVD players/recorders
- Mounted LCD/PVP (Portable Video Projectors)
- Laptops
- Data drops for LAN, WiFi, and Internet access and computer workstations
- Interactive Video Distance Learning (IVDL)
- · Circulation system
- Media retrieval system
- Fiber pulled to media center for future expansion
- 2-36 stationed wireless notebook carts
- Multiple electrical outlets for laptop charging

Office

Office areas have the following needs:

- Appropriate voice and fiber/CAT 7 data drops and/or wireless capability with LAN, WAN, and Internet access
- Electric power availability (quad per drop)
- Capability to support computer, network, printer, and fax
- Staff workstations
- Telephones (voicemail and fax capability)

- Security video system (main office only)
- PA system
- · Audio system
- Analog phone lines for fax machine
- · Capability to support high speed networked copier

Conference

Conference areas should include:

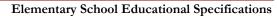
- Voice, video, and data drops for LAN, WiFi, Internet access, and fiber pulled for future
- Electric power availability [quad per drop]
- · Capability to support video monitor and video projection
- One telephone
- One computer
- A/V plate
- Ceiling mounted LCD projector
- Video conferencing equipment

Cafetorium / Multipurpose Room

These spaces should have the following equipment:

- Video ports and monitors that can be used for video displays of electronic bulletin boards
- CAT 7 data drops and/or wireless capability (WiFi) with LAN, WAN, and internet access to support point-of-sale devices, fiber pulled for future, inventory system access, and student access
- Telephones (voicemail capability in Cafetorium Office)
- Analog phone line to monitor refrigeration systems
- Mounted LCD and workstation
- Centralized control panel for video and data
- Storage space







Gymnasium

The gymnasium should have the following equipment:

- Video ports and monitors that can be used for video displays of electronic bulletin boards
- 2-3 video and fiber/CAT 5/6 data drops with LAN, WAN, and Internet access
- Portable video projector (PVP) and computer
- Large, electric front projection screen budget and includes:
- Telephone
- PA system
- Annual software support agreements
- Audio system
- Annual hardware support agreements
- · Centralized control panel for scoreboard, video
- Upgrading specific computers for specific monitors, electric front screen, and audio curriculum tasks

Technology Control Room

The Technology Control Room will house Uninterruptible Power Supplies (UPS), communication servers, PBX, video system, network router, and network switches. In addition, this room will have additional cooling systems to maintain a consistent room temperature.

Furniture will consist of IEEE racks, worktable, and monitor stand. All equipment must be located by ample electricity and have an assessable diameter of 4-5 feet.

Funding and Implementation

Educational software is typically funded through operating budget grants and includes:

- · Productivity software
- · Computer lab applications
- · Library automation software
- Reference resources (computer and A/V)
- Curriculum-specific software
- Curriculum-specific A/V media
- Textbook inventory
- Student Information System access

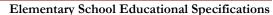
Maintenance is funded as a line item in the yearly budget and includes:

- Annual software support
- Annual hardware support agreements
- Upgrading specific computers for specific curriculum tasks

Staff Development is funded from the operating budget and grants and includes:

- In-service training on technology
- Special training activities for advanced users [stipends and summer grants]
- Attendance at regional and national shows







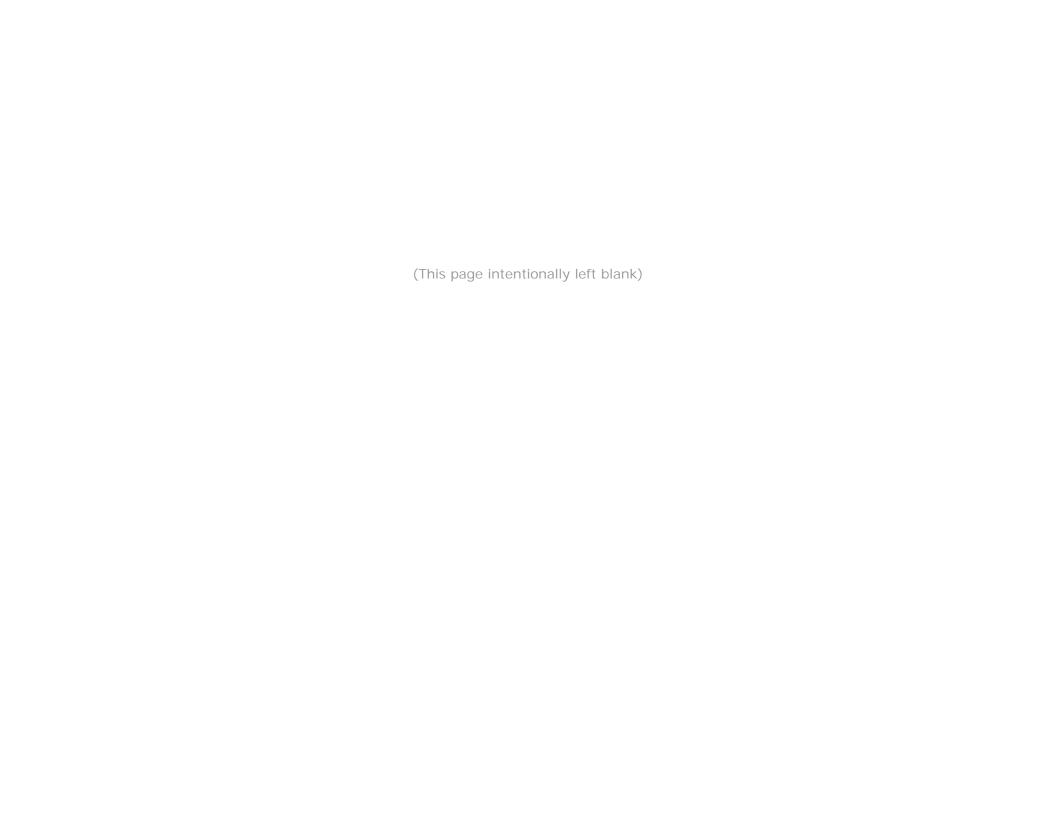
Staff Support is also funded from the operating budget and grants and includes:

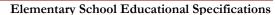
- Technology directors hired to implement plan[s] instructional focus
- Educational technology specialists
- Technology technicians repair and maintenance (computers, network, and telecommunications)
- · Building-level technology coordinator
- Media production staff
- Help desk staff
- Webmaster

Upgrades - funded as capital

- Expansion of network resources
- Expansion of telecommunications
- Media production
- Replacement of technology hardware replacement cycle
- Replacement of obsolete video equipment
- Replacement of obsolete computers











Safety & Security

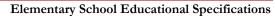
There is a high interest in maintaining an inviting and deinstitutionalized environment, while simultaneously providing a safe environment for students, staff, and community who use the facility and adjacent support services. The organization of a building will have a major impact on student behavior and safety concerns. Building security can be addressed in an active or a passive manner: active security is based on security systems; passive security is based on program design, building configuration, and community participation. Schools should be based on passive concepts with applied active concepts where necessary.

If we deal with the symptoms of the problem, we tend to focus on the active security procedures that can be implemented. If we deal with the cause of the problem, we are likely to address most of these issues through passive or program and building configuration solutions.

The problems and their causes are multi-dimensional: some issues can be addressed, while others cannot. Causes include, but are not limited to, family problems, lack of sense of belonging, lack of identity, lack of communication, lack of accountability, and student/teacher relationships. Passive program and building configuration should be the primary focus and active security systems the secondary focus.

Since the greatest number of discipline problems in a school occurs when students switch classes and have to travel from one end of the building to the other, having students spend the majority of their day in one section of the building, reducing movement will result in fewer discipline problems. Teams of teachers having responsibility for the same students improve the student/teacher relationship and results in greater continuity and monitoring of behavior issues.







Organizing a building into teams or clusters results in a number of changes which will reduce behavior problems:

- Teacher preparation areas place adults in closer and more direct contact with students.
- Utilizing a decentralized administration approach provides the opportunity to have counselors, and/or assistant principals easily accessible to student sin the academic clusters.
- Students have a greater sense of belonging and identity. For the majority of the day, their place is in the cluster/house.
- School pride becomes more apparent.
- Block scheduling is commonly utilized in secondary schools and also helps reduce pedestrian traffic within the building

The glass wall into the administration reception/waiting area in the pictures here provide good visibility of the main entrance. It serves a dual purpose of being inviting and welcoming to visitors while allowing administrative staff to monitor access during school hours. Way-finding is crucial to a successful school facility. The front entrance and reception area should be immediately obvious to anyone approaching and entering the building.



Monroe ES Richmond, IN



Glazing (interior windows) provides opportunities for active and passive supervision.





Passive Security Concepts

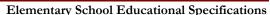
Building Layout

- * Avoid blind spots, corners, and cubby holes
- Locate administrative and teacher preparation with good visual contact of major circulation areas [i.e., corridors, cafetorium, bus drop-off, parking]
- Develop spatial relationships in such a manner that there are natural transitions from one location to another
- Locate toilets in close proximity to classrooms
- Design toilets to balance the need for privacy with the ability to supervise
- Locate areas likely to have significant community [after school] use close to parking and where these areas can be closed off from the rest of the building.
- Provide for natural integration of students and staff
- External exits from offices
- Wide stairwells in two-story buildings: use of glass windows
- Ability to partition unused portions of building
- Include elevator in two-story buildings
- Research on tsunami and schools that are at risk
- Minimize entry points into building and site
- Secure entrance to main office
- Separate entrance for students
- Enter staff restrooms through student restrooms
- Decentralization of staff work areas
- Visitor restroom at secure entrance to main office



Santa Rita School, US, California, Gelfand Partners Architects







Types of Building Materials

- Use durable wall surfaces that are easy to clean so graffitican be removed
- Incorporate pitched roofs which inhibit roof entry and are aesthetically pleasing
- Limits size of windows use multiple smaller windows rather than one large window
- Glaze or tint windows
- Install non-slip floors at point of entry

Vehicular and Pedestrian Traffic

- Separate bus drop-off area from other vehicular traffic
- Separate staff, student, and community parking area, located in appropriate areas
- Separate student [pedestrian] traffic flow
- Consider impact on safety of "closed" campus vs. "open" campus
- Decorative traffic barriers

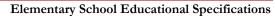
Uses of Technology

For instructional and administrative purposes, the new school should have extensive technology systems. These same infrastructures and technology components can be use to enhance building security.

- Phones in every instructional and support area
- Building-wide all-call designed to be heard throughout the school and on the play fields when needed.
- Motion or infra-red detectors, which can also be configured to conserve lighting costs.

- Video cameras that are used for instructional purposes could also be used for security purposes during nonschool hours.
- Smoke and heat detectors located throughout the building.
- For access control into the building, there are alternatives to keys, such as access control cards. These are plastic "swipe cards" and proximity cards, both of which can be used as identification cards. The swipe card is places in a machine, while the proximity card simply has to be used close [usually three to seven inches] to the reader to unlock a door. The cards are coded to allow entry to appropriate doors at selected times. Only one card is required for multiple entry points. Used in conjunction with the card is the controller, which monitors alarms, and the software, which is customized for the application [establishes parameters, maps input-output points, enters phone numbers for dial-up site]. Other approaches include a battery-operated lock that requires a numerical code on a keypad.
- Wiring for CCTV in all hallways, offices, classrooms, and parking area
- * Panic buttons located in all rooms
- Securable lobby area
- Programmed wipe cards used for doors
- Sound detection system







Landscaping, Playing and Practice Fields, Site, and Lighting

- Use high trees and low bushes [less than three feet high] to deter hiding
- Use aesthetically pleasing fencing around perimeter of the building
- Place some buildings or a tree buffer along the perimeter of the property to avoid extensive fencing
- Non-intrusive lighting of all area [not correctionaltype lighting]
- Emergency lighting/power in hallways, stairwells, auditorium, multi-purpose room, and classrooms
- Provide security lighting around building and parking lots with photo cell timer with on/off capacity
- Separate athletic fields and informal gathering areas
- Locate athletic facilities away from building
- Recess building on site to avoid vehicular and pedestrian conflicts

Council Rock HS – Richboro, PA Gilbert Architects



The image above is an example of using low bushes and high trees as landscaping features that deter hiding.

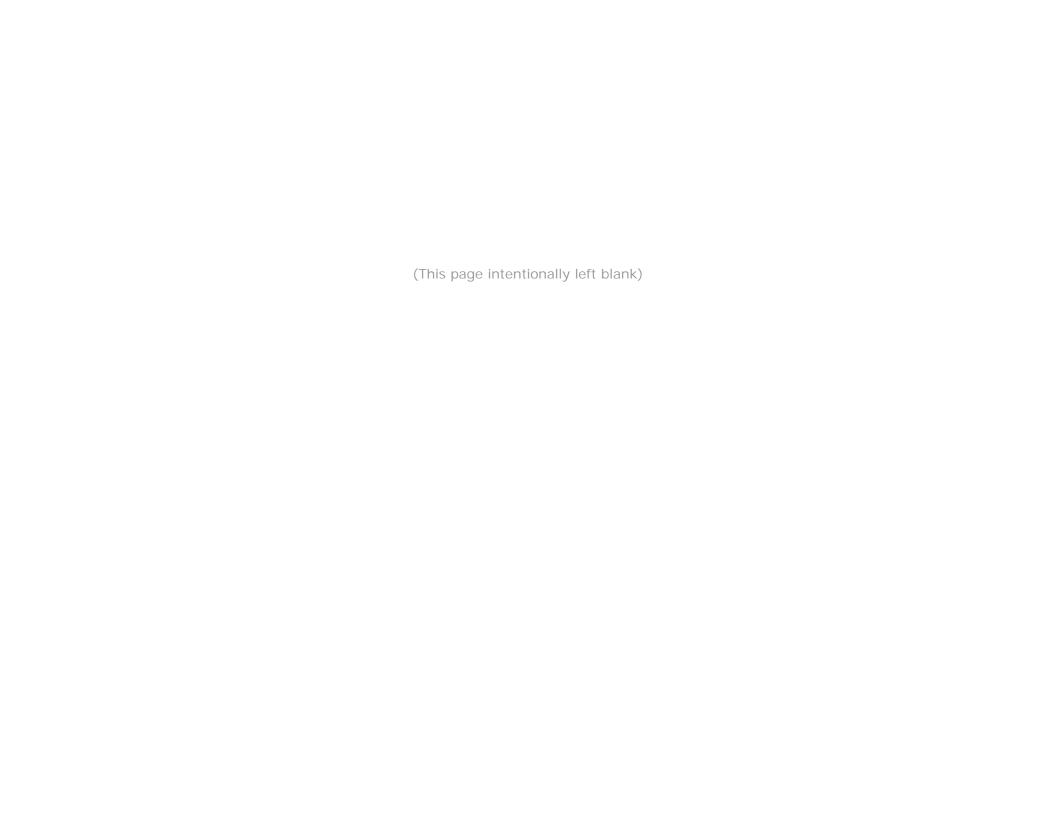


Mountain View ES- Johnson City, TN Ken Ross Architects, Inc.

The images left and below are examples of exterior and interior lighting usage to create a warm, safe, and inviting environment.





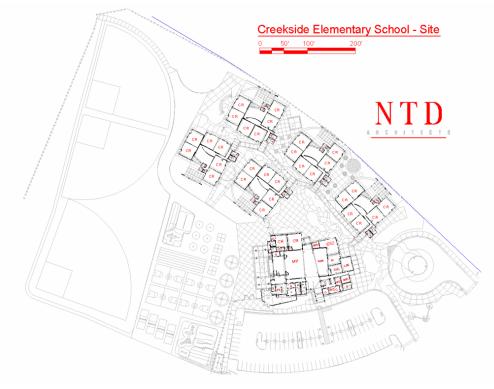


Site Issues

In some instances, implementation of the Long Beach Unified School District Facility Master Plan will result in renovation, closure, or construction of new schools on new sites. The Architect of Record for each school will be responsible for location of school on the site as well as site issues including topography, drainage, pedestrian and vehicular traffic, bus drop off and pick up areas, service entry, and safety of playground areas. Since Long Beach Unified School District is an urban school department, creative solutions will be required to address the considerations stated in this section.

The Long Beach Unified School District offers the following considerations for each of its K-5 school sites.

- Separate faculty and visitor parking areas
- Blacktop area
- Multi-purpose playfield
- Exterior lighting
- Fire vehicle access
- Fencing around school
- Location of "athletic centers"
- Service entry
- Separate drives for parent drop-off and buses
- Landscaping
- Use of adjacent properties
- Covered walkways between buildings
- Fencing should allow secure building but access to playground, courts, and fields to the community
- Restrooms next to playground for before/after school activities and community events







Design Considerations



Traffic Flow

Parking

- Car, bus, and service vehicle traffic must be separated
- Vehicular and pedestrian traffic must be separated
- Consider access by fire department emergency vehicles when planning site circulation
- Provide drive-up access for large items in areas such as Food Service and Custodial/Maintenance
- Provide adequate areas for entering and leaving play fields
- Separate drop-off for special education buses
- Sufficient length in drop-off for bus stacking
- Separate parent drop-off area with covered walkway
- Sufficient length in drop-off for parents' car stacking
- Adequate and separate parking facilities should be provided for visitors and staff
- The school site must provide adequate areas for entering and leaving, parking, and play fields
- Consider covered walkways from car and bus drop-off areas
- regulations Comply with for handicapped access
- Parking shared between school and community uses

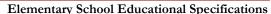


- Include exterior security lighting with photo-cell timer for parking lots and exterior of building
- Provide appropriate lighting for athletic and practice fields
- Provide appropriate lighting for walkways

Landscape

- Design irrigation of fields, lawn, and landscaped areas
- Low-maintenance landscaping plantings
- Consider outdoor spaces as an extension of the classroom and opportunities for exploration and education
- Student-friendly
- Places to rest and read
- Trees for shade
- Benches around trees
- Sufficient green space

Parking Spaces Based on Percentage of School Population										
	Elementary	Middle	High							
Staff	10%	10%	10%							
Visitor	3%	3%	3%							
Student	20%	20%	20%							





Sheltered Areas

- For inclement weather
- Eating lunch
- Outdoor classwork
- Waiting for parents
- Before/after school activities
- Walkways between buildings
- Away from noise

Covered Play Areas

- Games/PE
- Before/after school activities
- Hanging basketballs
- "Outdoor gymnasium"
- 2,000 SF
- High ceiling over asphalt
- Multipurpose covered area: lunch, etc.

Playing Fields

- Secure and safe playing fields for students with direct access from the building
- Multi-purpose grass: softball, soccer, etc.
- Paved areas: circles/games, volleyball, basketball, track lanes
- Equipment: small goals, small baskets, safe playground equipment
- Drinking fountains located throughout playing fields
- Playground equipment: ropes, mats, cones

Storage for Equipment

- For recess
- After lunch
- Close to recess/after lunch recess area
- Attach to building
- Multiple, easy access

torage for quipment

- For recess
- After lunch
- Close to recess/after lunch recess area
- Attach to building
- Multiple, easy access

Kindergarten Play Areas

- Hose hook-up
- Grassy area with shade
- Easy access to restrooms
- Portable water table/sand table
- Eating area with awning
- Outside intercom to reach office
- Storage for equipment and supplies
- Equipment that has climbing, sliding, walking, hanging,
- Crawling pretend play all loco-motor/balance, tricycles, tunnels
- Track to ride tricycles
- Hoop, hopscotch, circles, numbers, alphabet on pavement
- Jump rope area
- Garden area with sprinklers
- Drinking fountain
- Benches for eating and sitting

Grades four through six



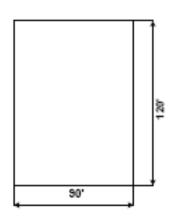
The following site guidelines for play fields are taken from the California Department of Education's *Guide to School Site Analysis and Development: 2000 Edition*.

Table 3 Site Requirements for Elementary Grades (In Schools with More Than Six Classrooms)

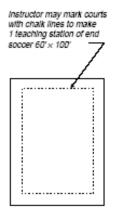
	Number of classrooms					
Kindergarten	1	2				
Type of outdoor facility (in square feet)						
Turfed area	3,000	5,500				
Paved area	2,000	4,000				
Apparatus area	2,000	2,500				
Land required for buildings and grounds	2,800	4,000				
Total square feet required	9,800	16,000				
Percentage factor for layout	20	20				

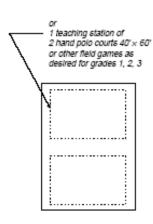
		Grades o	ne urrou	gn urree			urages re	our curve	ign six		
				Enrollmant					Enrollment		
		Up to 75	76 to 150	151 to 300	301 to 450	451 to 600	Up to 75	76 to 150	151 to 300	301 to 450	451 to 600
Тур	e of outdoor facility		Number	of facilitie	required	Number of facilities required					
Α	Field area 90'×120'	1	1	2	2	4					
В	Hardcourt area $60' \times 75'$	1	2	4	6	8					
C	Apparatus area (3,200 sq. ft.)	1	2	3	4	5	1	2	3	4	4
D	Field area $180^{\circ} \times 180^{\circ}$						1	2	4	4	4
E	Field area $120^{\circ} \times 180^{\circ}$									2	4
F	Hardcourt area $80^{\prime}\!\times100^{\prime}$						1	2	4	6	8
Pen	centage factor for layout	15	15	10	10	10	20	15	10	10	10

Grades one through three



BASIC UNIT A SPACE MODULE 90' X 120'

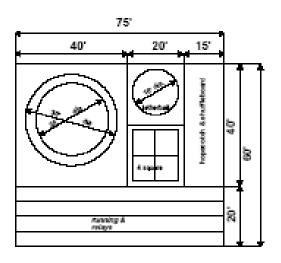










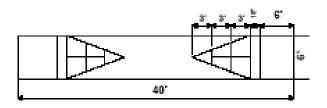


BASIC UNIT B

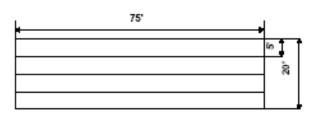
SPACE MODULE 60' x 75'

Showing typical activities for 75 children

LAYOUT WILL VARY



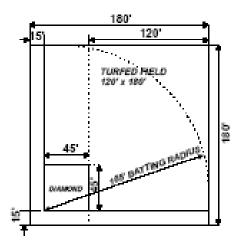
SHUFFLEBOARD



RUNNING AND RELAYS

Basic Unit C, an apparatus area, is a space module of 3,200 square feet. The architect may design the area according to the dimensions of the particular type of apparatus to be installed as long as the total area does not exceed 3,200 square feet. Basic Unit C provides space for up to 75 students in grades one through six. (See Table 3 for additional basic units needed for enrollments beyond 75 in those grades.)



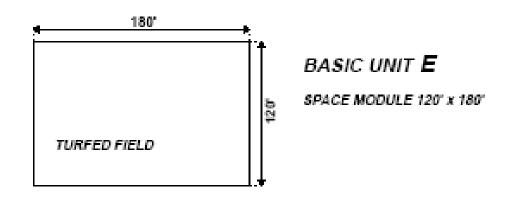


BASIC UNIT D

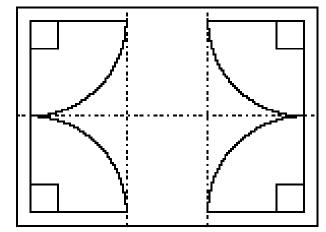
SPACE MODULE 180' x 180'

Combined use for softball

or field areas

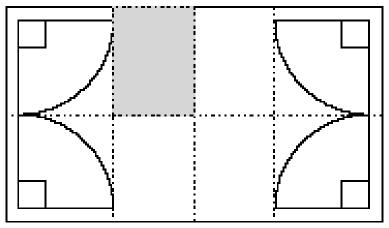


4 UNITS OF D PLUS 2 UNITS OF E



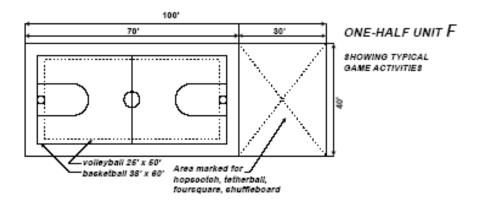
450 MAXIMUM ENROLLMENT 172,800 sq. ft.

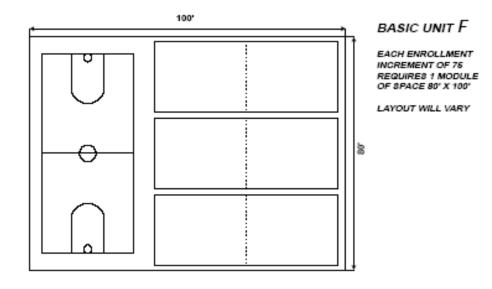
4 UNITS OF D PLUS 4 UNITS OF E

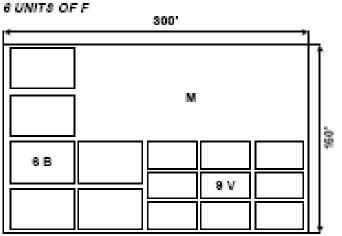


600 MAXIMUM ENROLLMENT 216,000 sq. ft.



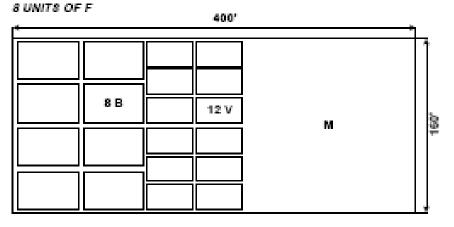






460 MAXIMUM ENROLLMENT

48,000 sq. ft.



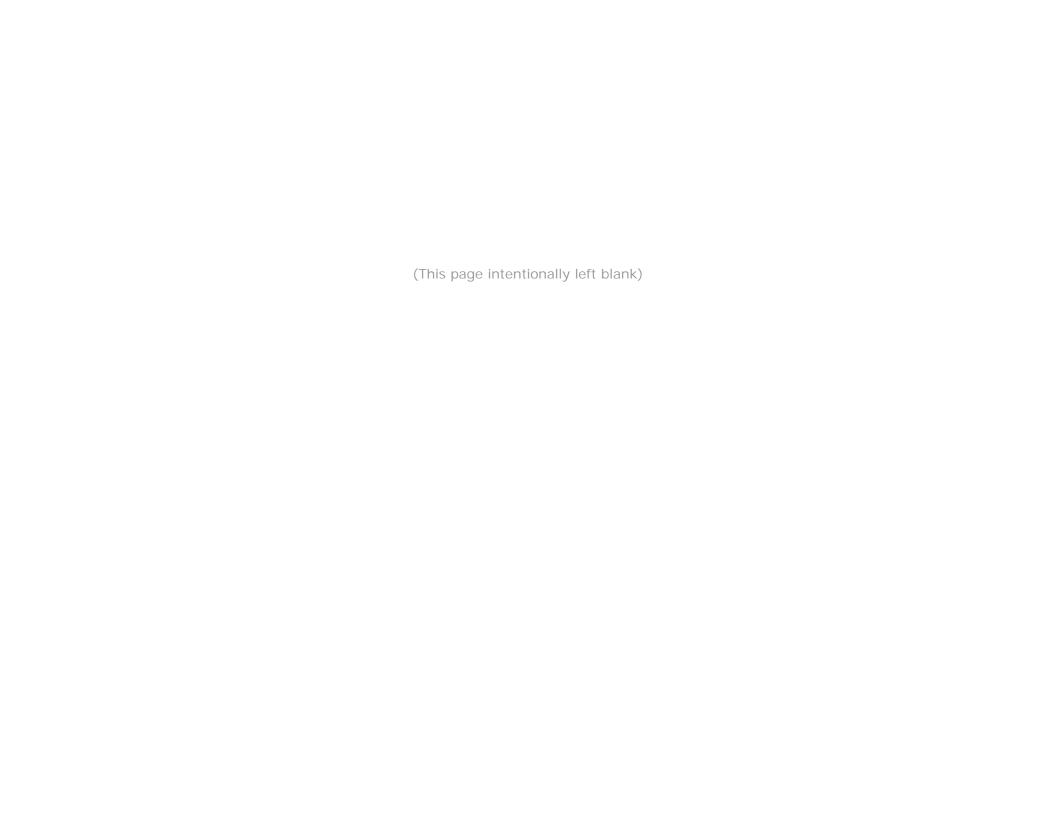
600 MAXIMUM ENROLLMENT

84,000 sg. ff.



SYMBOLS B—baskefball V-volleyball

M-misoellaneous games







Aesthetics

The indoor and outdoor structures and spaces where students go to school need to be aesthetically pleasing and healthful settings. The facility should capture the students, making them feel that the space is special, and therefore emphasizing that each individual is important. Aesthetics that affirm the value of the individual must be stressed, with spaces for the admiration of the accomplishments of self and others. The school should resemble a place for academic success, high self-esteem, social interaction, and physical safety. The facility layout should be especially easy to comprehend and reflect how classes relate to one another in order to minimize the lost feeling common in students.

Spaces should be provided for socialization among students and with teachers.

Variety of Instructional / Learning Spaces

Ongoing assessment of student progress will require facilities to be able to adapt with a changing program. Multi-use of buildings should be the norm. Spaces should allow for a wide variety of specialized instructional and hands-on learning experiences.

Today, students do not just work in groups of 20-25. As technology continues to advance, students are becoming more involved in extensive individual learning activities that are supplemented by small group [2-6 students], moderate group [10-20], and large group [50-150] activities. Space should be provided for students to plan work independently and collaboratively, give and/or receive tutoring as well as accept instruction.

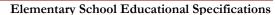
Staffing Patterns

The predominant staffing pattern is composed of teachers, supplemented with para-professionals and specialists. As the programs and groupings change, a more differentiated staffing pattern may emerge with lead or master teachers and more specialists and para-professional facilitators.

Indoor and Outdoor Learning Environments

By rethinking spaces, better use of the facilities can be made. Some ideas include: use gardens instead of pavement and use hallways as art galleries or museum strips. Creativity and functionality should work hand-in-hand. Color, greenery, building materials, and furniture should be selected carefully to develop a pleasing and inviting atmosphere.







The learning environment should be student-centered and designed for "hands-on learning," promoting student autonomy and independence. Space for active participation should be incorporated with modular, flexible classrooms providing opportunities for integrating disciplines and easy access to tools of exploration. The outdoor site should serve as a pro-active learning environment as well.

Learning from Others

Modern office environments provide greater insights into flexibility than current school environments. Many of their concepts should be taken into consideration:

- Demountable, movable wall systems
- Modular furnishings
- In floor wiring
- Non-load bearing wall systems
- Raceways, cable trays
- More generic space that can be adapted to specialized uses

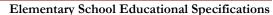
Planning Principles

Following are planning principles employed by other districts when developing elementary school sites:

- Good signage marquee board (with directions on how to find entrance and location within the facility)
- Landscaping good upkeep
- Dumpster not visible
- Separate access road for deliveries
- Pleasing, inviting, happy colors (soothing colors)
- Cove lighting in corridors
- Arched ceilings in corridors
- Lighting natural skylights

- Enclosed media center with skylights
- Student art work 1 showcase by office
- Plants artificial and real
- Classroom –tile with soothing pattern and color
- Complimentary carpet and tile mix appropriately used throughout the building
- Top windows operable









Community Use

School districts and governmental agencies are beginning to realize that cooperation is needed, especially considering shrinking budgets and the diverse needs of the community.

Community involvement in education can take a variety of forms before, during, and after the school day.

The following is a partial list of potential community uses:

- Mentoring Programs
- After School Youth Enrichment
- **Pageants**
- Child care (staff, students, community)
- **Recreation Programs**

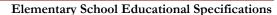
- **Outdoor Festivals**
- **Intramural Sports Programs**
- **Dance Recitals**
- **Open House Activities**
- Parental Involvement
- Adult Education / ESL
- Senior Citizens Programs
- Community Meetings
- **Board of Education Meetings**
- School/Community Partnerships
- Church-Related Activities
- Health Screening
- **Special Seminars**
- Voting

Based on limitations established for the size of school facilities and budget constraints, most of the community uses will need to focus on shared space that is used primarily for school programs during the school day and community uses during non-school hours.

The areas in schools that have the greatest possibility for community usage include:

- PTA Room
- Parent Room/Center
- Library/Media Center
- Conference Rooms
- Small Group Rooms
- Cafetorium and Stage
- Parking Lots
- **Playfields**







Special considerations include:

- Disaster and emergency use
- Configure and zone facility and site to enhance parking and circulation, security, and energy conservation
- Adequate signage to assist community members
- Layout of community use areas should be of a "user friendly" design
- Storage

Community Support

Many schools rely on community volunteers to participate in tutoring and mentoring programs that take place in the school facility. It is important to program adequate space for these programs. For instance, where does a volunteer tutor sit with a student, or small group of students to conduct tutoring? Is there a specific place for this to occur, or is the volunteer in the hallway or stairwell? Where does the volunteer put his or her belongings? Tutoring space can be provided through small group rooms adjacent to classrooms or through conference rooms located in each learning community. Adequate parking space should be provided for volunteers in the visitor parking lot.

Collaboration and partnerships require greater cooperation in the planning of schools and community facilities. It is important for the school district, governmental agencies, and corporate partnerships to participate collaboratively in the planning of schools.

Planning for future schools should include joint use considerations at the beginning of the process. School districts and governmental agencies are beginning to realize that cooperation is needed, especially considering shrinking

budgets and the diverse needs of the community. There are potential opportunities in jointly developing parks, libraries, and one-stop shopping centers for human services. Partnerships and joint ventures should be considered and encouraged by the Board of Education.

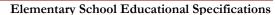
Multi-Service Center

Today, social and family issues of students and the community have caused the schools to re-examine its' services. Schools are forced to not only educate students, but to address a myriad of social economic and family issues. This arduous task is far too massive for schools alone. As a result, schools are beginning to partner with various agencies as a means of its' students and the community.

The multi-service center concept incorporates a "one-stop" shopping center for the delivery of community and educational services. Typically, community services have been delivered separately. Schools, recreational programs, libraries, preschool, daycare, health care, employment agencies, and governmental services have been housed in their own buildings. Today, multi-service centers are housing different agencies in a shared space arrangement.

The initial start-up cost for this type of facility would be greater than that of a traditional school, but the cost of housing and operating all of the services separately far exceed the collective cost. For years, the debate has been where the school's responsibility begins and ends. The multi-service center clearly assumes more responsibility than the typical school, yet it is composed of several agencies to handle the burden. Articulation and cooperation among service providers is essential and appears to be possible in the current climate.







Issues that need to be considered include:

Location of the Facility and Its Constituents

Not all social service agencies share the same geographical area. One site may be more appropriate for one group than another. Because such a facility will be larger than a typical school, more space is needed and greater attention should be paid to where the facility is located in conjunction with the surrounding neighborhood.

Size of Building

Multi-service centers can become large and complex institutions when several services and programs are added to an already large school. Instead of one megabuilding, the center may consist of a series of small, interconnecting facilities. Another option is to organize the facility as a cluster of pavilions along a central mall or enclosed street. The shopping center concept best characterizes most multi-service centers.

Separation of School, Community & Shared Spaces The most common practice in the interior layout of centers is to separate spaces intended for school use only, community use only, and shared use. The facility's entrances and corridors are designed so that each area can be accessed separately.

Finance

Often educational and community services have their own capital improvement and operating funding sources. There are a number of state policies and statutes that prohibit shared use of space or co-mingling of funds even though most policy-makers readily endorse the multi-

service center concept. Several state governments have had to revise current statutes and practices to make this concept permissible and others have actually provided school districts and governmental agencies with financial incentives to engage in joint use of facilities.

Governance

Typically, the facility is owned by the City and is operated through a joint governance structure, which includes shared maintenance and operating costs.

The following are suggestions regarding use of Long Beach Unified School District facilities:

- A media center with flexibility to support small groups.
- A cafetorium and gymnasium close to visitor parking and restrooms.
- Outside access to the media center and community room for after hours use.
- On site child care and recreation areas for staff and volunteers.
- Emergency space for natural disasters for community use if necessary.
- Community room area close to cafetorium/ gymnasium with storage space, table, file cabinets, telephone, computer, and copier access.



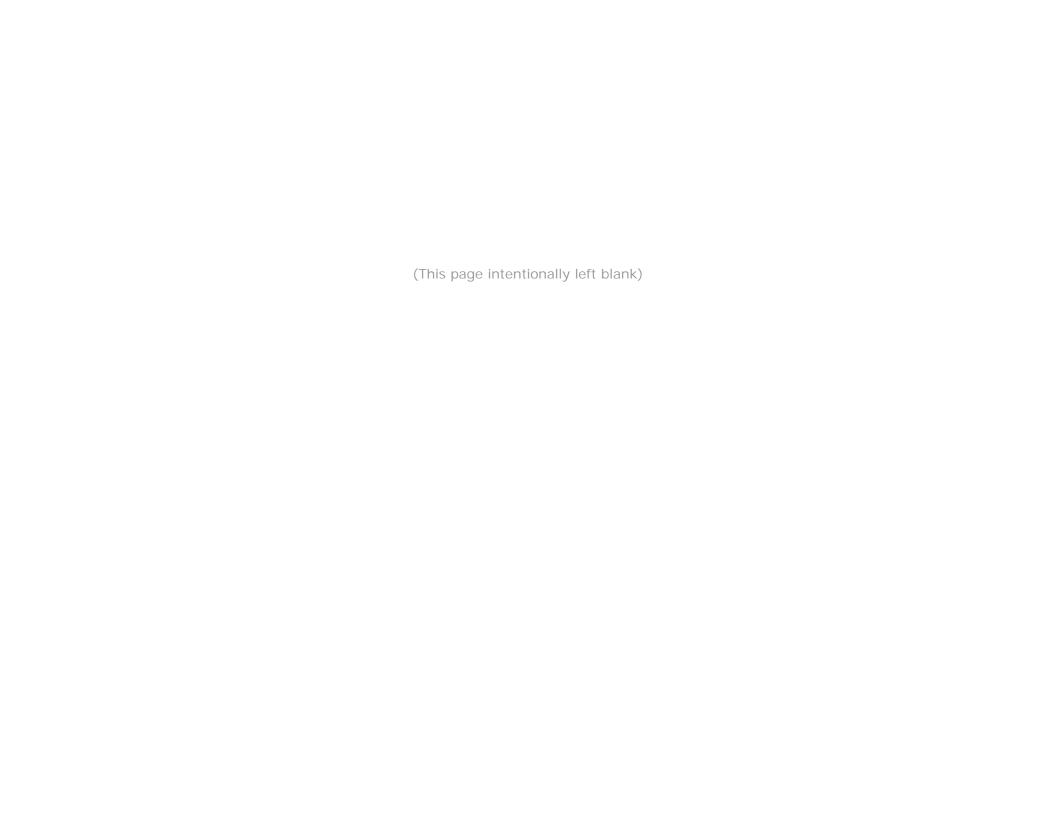


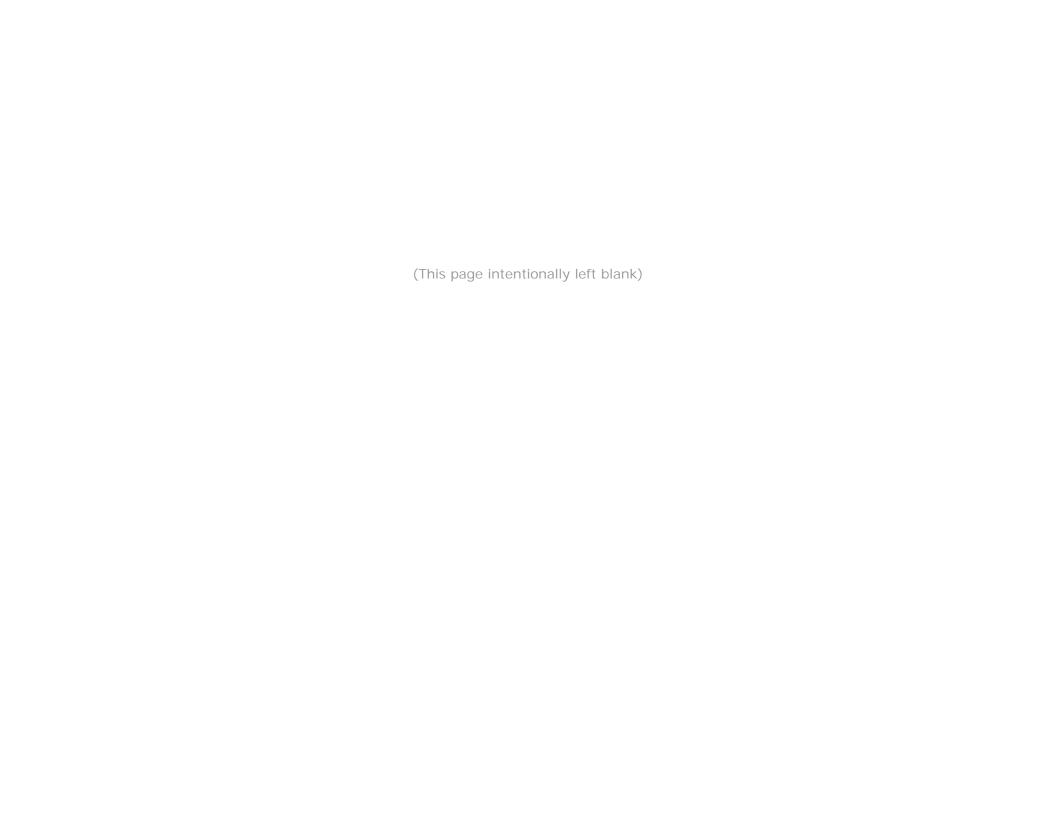




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Total Building Space Requirements

The following table lists the total teaching spaces and square footage for three different sizes of schools.

K-8 School Spaces	•	Spaces for udents	•	Spaces for udents	Proposed Spaces for 1,200 Students		
	TS*	Total SF	TS	Total SF	TS	Total SF	
Core Academics	29	36,090	42	52,410	55	68,970	
Special Needs	1	1,810	2	2,870	3	3,930	
Media Center	0	3,700	0	4,000	0	4,500	
Visual Arts	1	1,575	1	1,575	2	3,150	
Music	1	1,500	2	3,100	2	3,500	
Tech Ed	1	1,400	1	1,400	2	2,800	
Physical Education	1	11,250	2	12,500	3	13,900	
Administration	0	3,430	0	3,990	0	5,360	
Food Service	0	6,350	0	8,350	0	9,550	
Custodial	0	1,800	0	2,000	0	2,200	
Sub Total		68,905		92,195		117,860	
Building Services, Circulation, etc.	20.0%	13,781	20.0%	18,439	20.0%	23,572	
Total	34	82,686	50	110,634	67	141,432	

^{*}Teaching Station

CAPACITY CALCULATIONS based on 23.1 students per classroom]

Regular TS [Teaching Stations]	29	42	55
Students Per TS	23.1	23.1	23.1
Sub Total Regular	669.9	970.2	1270.5
Special Needs TS	1	2	3
Students Per TS	11	11	11
Sub Total Special Needs	11	22	33
Total	681	992	1,304

Class Size = 23.1

		SF per
# Students	Total SF	student
681	82,686	121.4
992	110,634	111.5
1,304	141,432	108.5

CAPACITY CALCULATIONS based on 26.5 per classroom]

Regular TS [Teaching Stations]	29	42	55
Students Per TS	26.5	26.5	26.5
Sub Total Regular	768.5	1113	1457.5
Special Needs TS	1	2	3
Students Per TS	11	11	11
Sub Total Special Needs	11	22	33
Total	780	1,135	1,491

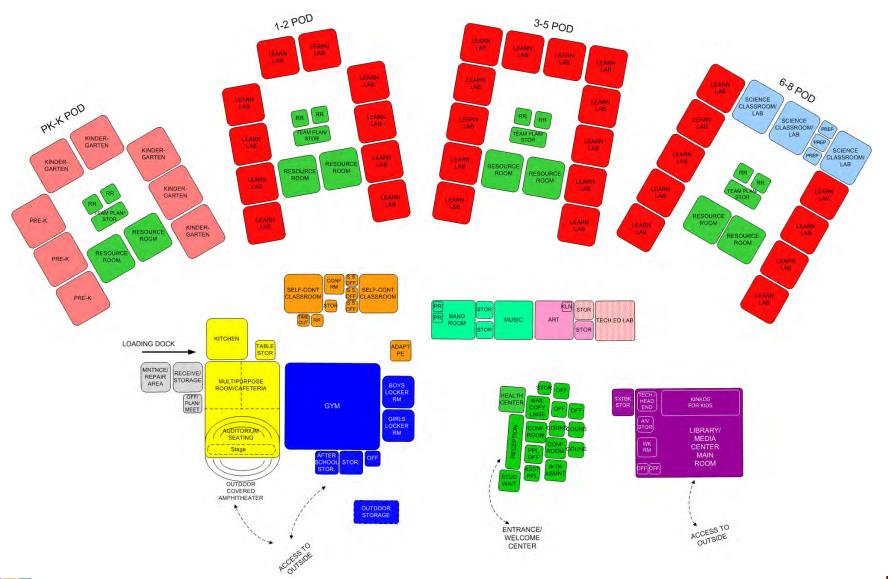
Class Size = 26.5

		SF per
# Students	Total SF	student
780	82,686	106.1
1,135	110,634	97.5
1,491	141,432	94.9





Overall Building Drawing: 900 Students







Program Area Space Requirements

Core Academics Space Requirements

PreK-Grade 2 Pods

Space		Pod/Cluster Pod/Cluster			Pod/Cluster				•			
	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total
PreK Classroom	2	2	1,350	2,700	3	3	1,350	4,050	4	4	1,350	5,400
Kindergarten Classroom	3	3	1,350	4,050	5	5	1,350	6,750	7	7	1,350	9,450
Learning Lab/Storage		2	200	400		3	200	600		4	200	800
Learning Lab/Classroom	6	6	960	5,760	10	10	960	9,600	13	13	960	12,480
Small Group Room		1	150	150		2	150	300		3	150	450
Team Planning Areas/Faculty Lounge		1	300	300		1	500	500		1	700	700
Resource Room		1	960	960		1	960	960		1	960	960
Restrooms		1	250	250		1	250	250		1	250	250
Sub Total	11			14,570	18			23,010	24			30,490

Grades 3-5 Pods

Space		Pod/Cluster			Pod/Cluster				Pod/Cluster			
	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total
Learning Lab/Classroom	9	9	960	8,640	12	12	960	11,520	15	15	960	14,400
Small Group Room		3	150	450		3	150	450		3	150	450
Team Planning Areas/Faculty Lounge		1	300	300		1	500	500		1	700	700
Resource Room		1	960	960		2	960	1,920		3	960	2,880
Restrooms		1	250	250		1	250	250		1	250	250
Total	9			10,600	12			14,640	15			18,680

Grades 6-8 Pods

Space		Pod/Cluster				Pod/Cluster				Pod/Cluster			
	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	
Learning Lab/Classroom	6	6	960	5,760	9	9	960	8,640	12	12	960	11,520	
Science Classroom & Storage	3	3	1,200	3,600	3	3	1,200	3,600	4	4	1,200	4,800	
Small Group Room		3	150	450		3	150	450		3	150	450	
Team Planning Areas/Faculty Lounge		1	300	300		1	500	500		1	700	700	
Resource Room		1	960	960		2	960	1,920		3	960	2,880	
Restrooms		1	250	250		1	250	250		1	250	250	
Total	9			11,320	12			15,360	16			20,600	

Total Core Academic Area

Total Space for Core Academic Two Tables above Added Together	P	roposed S 600 Stu	•	or		Proposed 900 S	Spaces Students		Proposed Spaces for 1,200 Students			
Two Tables above Added Together	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total
PreK-K Learning Lab/Classroom	5	5	1,350	6,750	8	8	1,350	10,800	11	11	1,350	14,850
Learning Lab/Classroom	21	21	960	20,160	31	31	960	29,760	40	40	960	38,400
Science Classroom & Storage	3	3	1,200	3,600	3	3	1,200	3,600	4	4	1,200	4,800
Small Group Room		7	150	1,050		8	150	1,200		9	150	1,350
Team Planning Areas/Faculty Lounge		3	300	900		3	500	1,500		3	700	2,100
Resource Room		3	960	2,880		5	960	4,800		7	960	6,720
Restrooms		3	250	750		3	250	750	Ť	3	250	750
Core Academic Sub-Total	29			36,090	42			52,410	55			68,970





Special Needs Space Requirements

Special Needs Spaces	Proposed Spaces for 600 Students TS Quantity SF Total TS					Proposed 900 S	Space: tudent:		Proposed Spaces for 1,200 Students			
	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total
Self-Contained Classroom [SDC: MS, M, OI]*	1	1	960	960	2	2	960	1,920	3	3	960	2,880
Time-Out Room/Additional Storage		1	100	100		1	100	100		1	100	100
Restroom/Shower		1	200	200		1	200	200		1	200	200
Student Services Offices		2	100	200		3	100	300		4	100	400
Resource/Tutorial Room [RSP, SDC: ED, MM, DHH]	See	Core Acade	emic Are	ea .	See	Core Acade	emic Are	ea .	See	Core Acade	emic Are	ea ea
Conference Room		1	250	250		1	250	250		1	250	250
Storage		1	100	100		1	100	100		1	100	100
Adaptive PE	See	PE			See	PE			See	PE		
Special Needs Sub-Total	1			1,810	2			2,870	3			3,930

^{*}classrooms divided by moveable walls; can be turned into smaller room

Media Center Space Requirements

Media Center Spaces	Proposed Spaces for 600 Students					Proposed 900 S	d Spaces		Proposed Spaces for 1,200 Students			
	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total
Library/Media Center Main Room		1	1,500	1,500		1	1,500	1,500		1	2,000	2,000
Multi Media Workroom/Kinkos		1	800	800		1	800	800		1	800	800
Media Specialist/Clerk Office		1	200	200		2	150	300		2	150	300
Workroom		1	300	300		1	400	400		1	400	400
Textbook Storage		1	500	500		1	600	600		1	600	600
Telecommunications Room		1	200	200		1	200	200		1	200	200
A/V Storage	·	1	200	200		1	200	200		1	200	200
Media Center Sub-Total	0			3,700	0			4,000	0		·	4,500

Visual Arts Space Requirements

Visual Art Spaces		Proposed 600 S	l Spaces			Proposed 900 S	l Spaces		Proposed Spaces for 1,200 Students				
	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	
Art Room	1	1	1,200	1,200	1	1	1,200	1,200	2	2	1,200	2,400	
Kiln Room		1	75	75		1	75	75		2	75	150	
Storage		1	300	300		1	300	300		2	300	600	
Visual Arts Sub-Total	1			1,575	1			1,575	2			3,150	





Music Space Requirements

Music Spaces	Proposed Spaces for 600 Students TS Quantity SE Total T					Propose 900	d Space Student		Proposed Spaces for 1,200 Students			
	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total
Music Room	1	1	1,200	1,200	1	1	1,200	1,200	1	1	1,200	1,200
Storage		1	300	300		1	300	300		1	300	300
Band Room					1	1	1,200	1,200	1	1	1,500	1,500
Storage						1	200	200		1	300	300
Practice Rooms						2	100	200		2	100	200
Auditorium		See Food	Service	<i>Area</i>		See Food	Service	<i>Area</i>		See Food	l Service	Area
Music	1			1,500	2			3,100	2			3,500

Technology Education Space Requirements

Tech Ed Spaces		Proposed 600 S	Spaces tudents			Proposed 900 S	l Spaces tudents		Proposed Spaces for 1,200 Students				
	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	
Tech Ed Lab	1	1	1,200	1,200	1	1	1,200	1,200	2	2	1,200	2,400	
Storage		1	200	200		1	200	200		2	200	400	
Tech Ed Sub-Total	1			1,400	1			1,400	2			2,800	

Physical Education Space Requirements

Physical Education Spaces		Propose 600	d Spaces Students			Propose 900	d Spaces Students			Propose 1,200	d Spaces Student	
	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total
Gym	1	1	7,500	7,500	2	1	8,500	8,500	2	1	8,500	8,500
Storage		1	300	300		1	300	300		1	300	300
Shower/Locker Room		2	1,000	2,000		2	1,000	2,000		2	1,200	2,400
Fitness Lab/Classroom									1	1	1,000	1,000
Adaptive PE		1	400	400		1	400	400		1	400	400
After School Storage		1	300	300		1	300	300		1	300	300
Outdoor Athletic Equipment Storage		1	750	750		1	1,000	1,000		1	1,000	1,000
Physical Education Sub-Total	1			11,250	2			12,500	3			13,900





Administration Space Requirements

Walana Canta Cana		Proposed				Proposed			or Proposed Spaces for 1,200 Students				
Welcome Center Spaces	TS	Quantity	tudent SF	s Total	TS		Student SF	s Total	TS	Quantity	Studen SF	Total	
Welcome Center/Admin	13	Quartity	<u> </u>	Total		Quartity	J.	Total	<u></u>	Quartity	<u> </u>	Total	
Reception Area		1	500	500		1	500	500		1	500	500	
Secretarial Area (Combined w/ reception)		0	80	0		1	120	120		0	80	0	
Student Waiting Area		1	250	250		1	250	250		1	250	250	
Principal's Office		1	200	200		1	200	200		1	200	200	
Asst. Principal's Office		1	150	150		1	150	150					
Conference Room		2	300	600		2	300	600		1	300	300	
Counselor's Office		2	120	240		3	120	360					
Intake/Pre-Assessment Room		1	250	250		1	250	250		1	250	250	
Mail/Work/Copy/Lounge Room		1	400	400		1	600	600		1	800	800	
Administrative Storage		1	150	150		1	150	150		1	150	150	
Health Clinic		1	450	450		1	450	450		1	450	450	
Additional Offices		2	120	240		3	120	360					
Sub Total	0			3,430	0			3,990	0			2,900	
House Plan- Decentralized Administration	+												
Secretarial Area										1	80	80	
Asst. Principal's Office										1	150	150	
Conference Room										1	200	200	
Counselor's Office										1	120	120	
Storage/Work Area										1	150	150	
Additional Offices										1	120	120	
Sub Total	0			0	0			0	0			820	
Number of House Decentralized Office Areas				0				0				3	
Sub Total Decentralized/Houses				0				0				2,460	
Total Administration				3,430				3,990				5,360	





Food Service Space Requirements

Cafeteria/Food Service Spaces		Proposed 600 S	l Spaces			Proposed 900 S	d Spaces		1,200 Students			
	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total
Kitchen, warming/serving only												
Preparation Area												
Serving Area												
Dry Food Storage												
Cooler/Freezer		1	2,000	2,000		1	2,500	2,500		1	2,500	2,500
Ware Washing				2,000								
Kitchen Mgr Office												
Restroom												
Lockers												
Multipurpose Room (with dividers)*		1	2,000	2,000		1	3,000	3,000		1	3,500	3,500
Table & Chair Storage		1	250	250		1	250	250		1	250	250
Stage Area		1	600	600		1	600	600		1	800	800
Auditorium Seating		1	1,500	1,500		1	2,000	2,000		1	2,500	2,500
Exterior Patio/Covered Eating Area		1	2,000	Outside		1	3,000	Outside		1	3,000	Outside
Food Service Sub-Total	0			6,350	0			8,350	0			9,550

^{*} Suggest a layout which there is divider wall between the auditorium and multipurpose room to allow for more seating in the auditorium

Custodial / Maintenance Space Requirements

Custodial Spaces		Proposed 600 S	Spaces			Proposed 900 S	Spaces			Proposed 1,200	l Space: Studen	
	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total
Receiving/Storage		1	500	500		1	500	500		1	500	500
Maintenance/Repair Area		1	500	500		1	500	500		1	500	500
Office/Planning/Meeting Area		1	200	200		1	200	200		1	200	200
Custodial Hopper Room [throughout school]		6	100	600		8	100	800		10	100	1,000
Mechanical Rooms & Restrooms	Se	e Building Se	rvice in S	um Chart	Se	e Building Se	rvice in S	um Chart	Se	e Building Se	rvice in S	Sum Chart
Loading Dock			outside				outside				outside	
Custodial Sub-Total	0			1,800	0			2,000	0			2,200



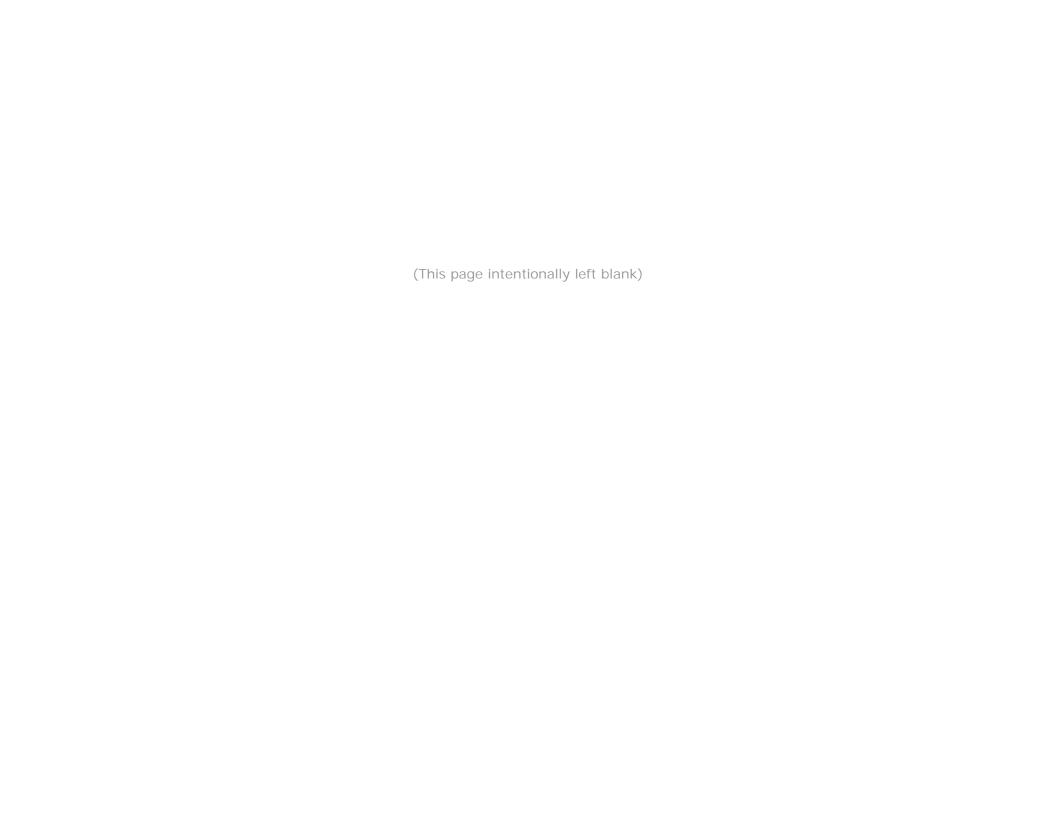
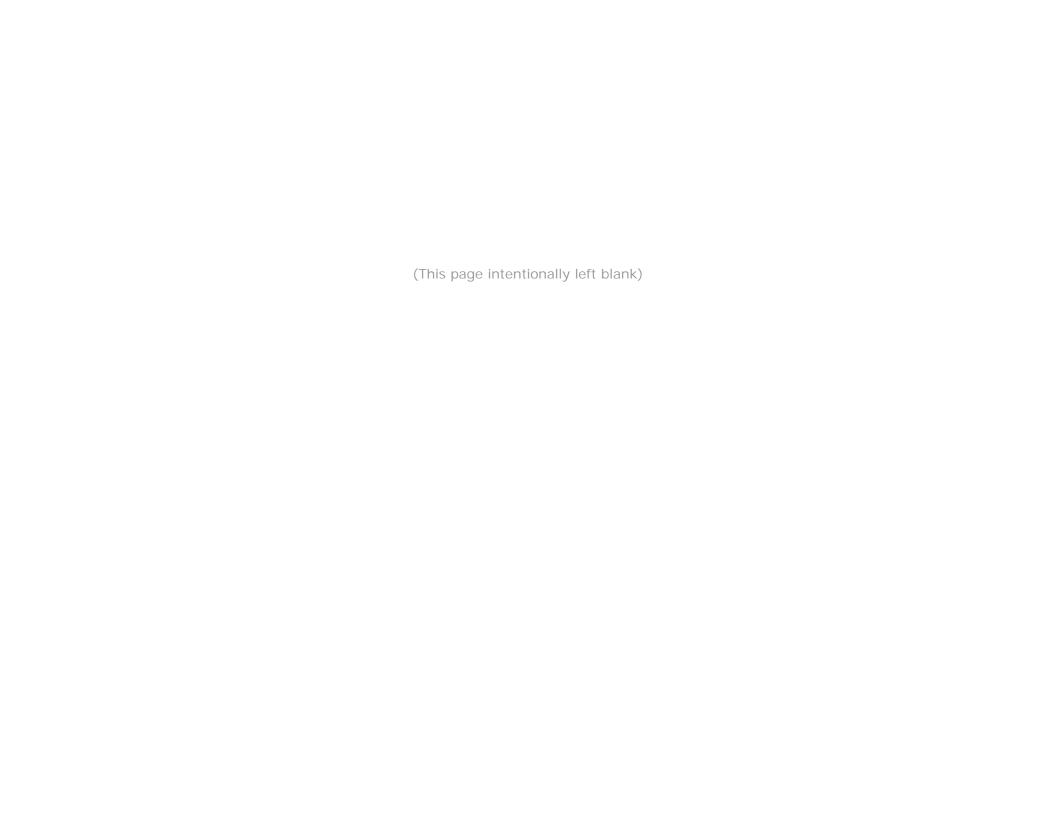




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Total Building Space Requirements

The following table lists the total teaching spaces and square footage from the entire building.

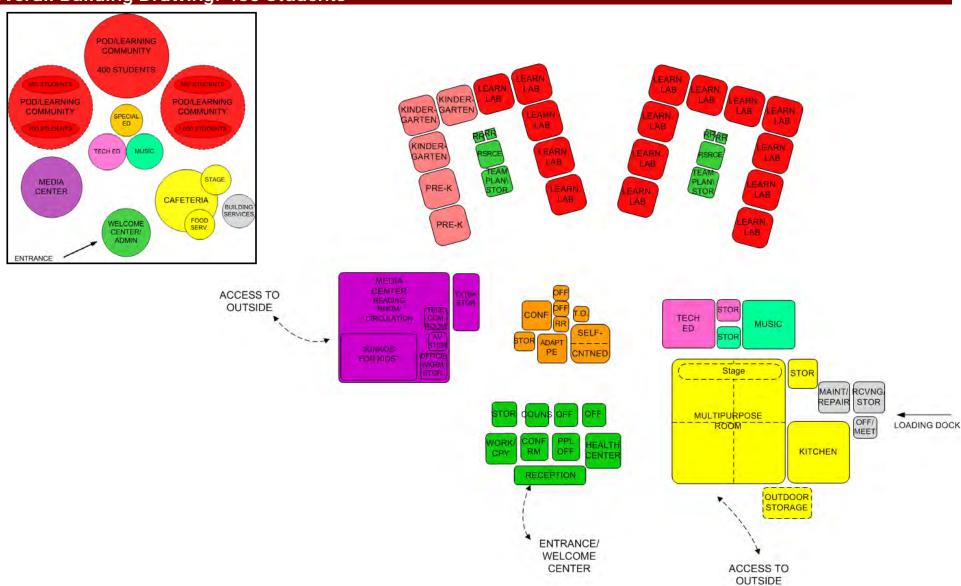
Elementary School Spaces	Suggeste for 400	ed Spaces Students		ed Spaces Students	Suggested 700 Stu			ed Spaces Students		ed Spaces Students
	TS*	Total SF	TS	Total SF	TS	Total SF	TS	Total SF	TS	Total SF
Core Academics	20	23,650	26	31,650	33	41,400	39	49,200	46	58,350
Special Needs	1	2,130	2	3,310	3	4,490	4	5,670	5	6,850
Media Center	0	3,250	0	3,250	0	3,750	0	3,850	0	4,350
Visual Art/Wet Lab	0	0	1	1,200	1	1,200	1	1,200	2	2,400
Music	1	1,400	1	1,400	1	1,400	2	2,600	2	2,600
Tech Ed/Computer	1	1,200	1	1,200	1	1,200	2	2,400	2	2,400
Welcome Center	0	2,210	0	2,580	0	3,320	0	3,440	0	3,560
Food Service	0	4,800	0	7,050	0	7,050	0	8,100	0	8,100
Custodial	0	1,400	0	1,600	0	1,800	0	2,200	0	2,400
Sub Total		40,040		53,240		65,610		78,660		91,010
Building Services, Circulation, etc.	20.0%	8,008	20.0%	10,648	20.0%	13,122	20.0%	15,732	20.0%	18,202
Total	23	48,048	31	63,888	39	78,732	48	94,392	57	109,212

^{*}Teaching Station



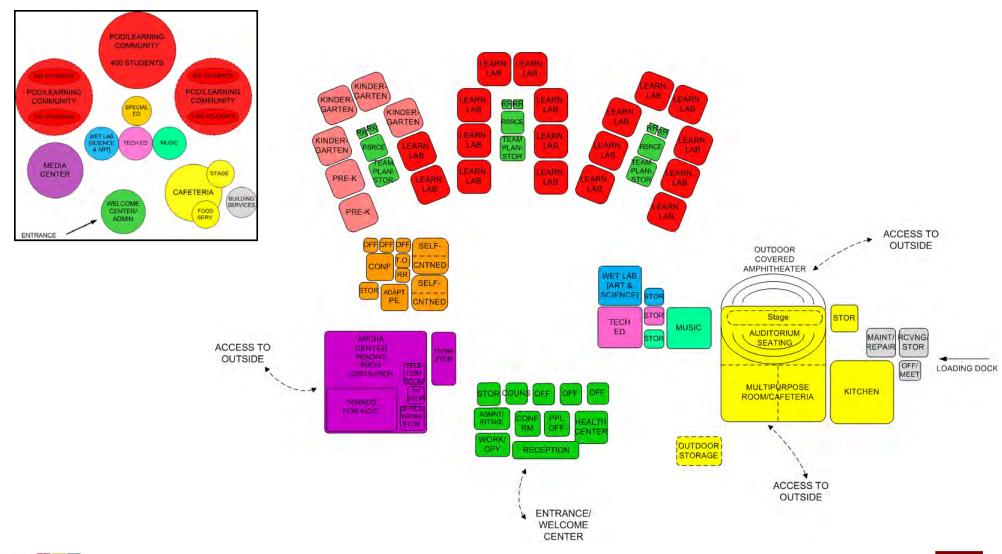


Overall Building Drawing: 400 Students





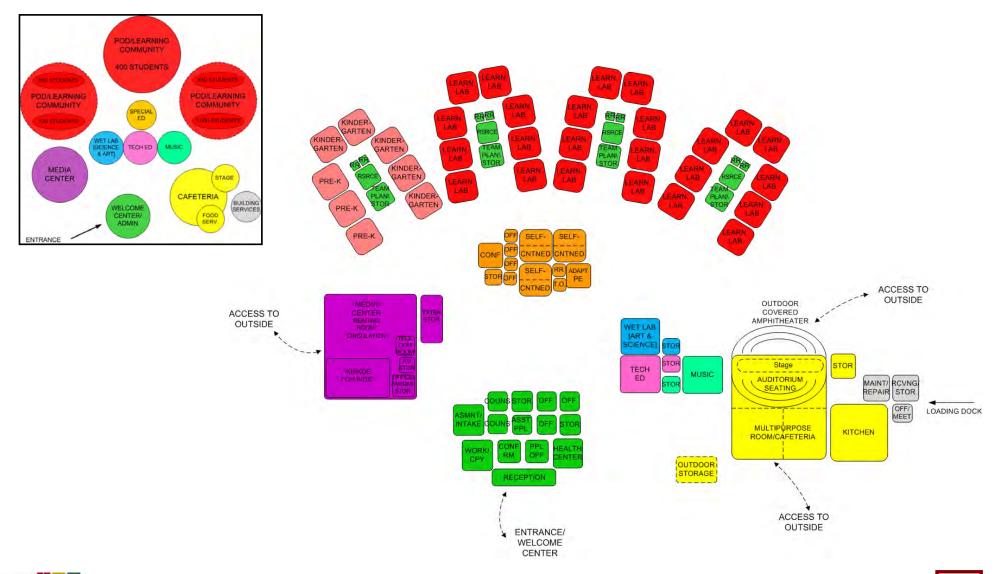
Overall Building Drawing: 550 Students





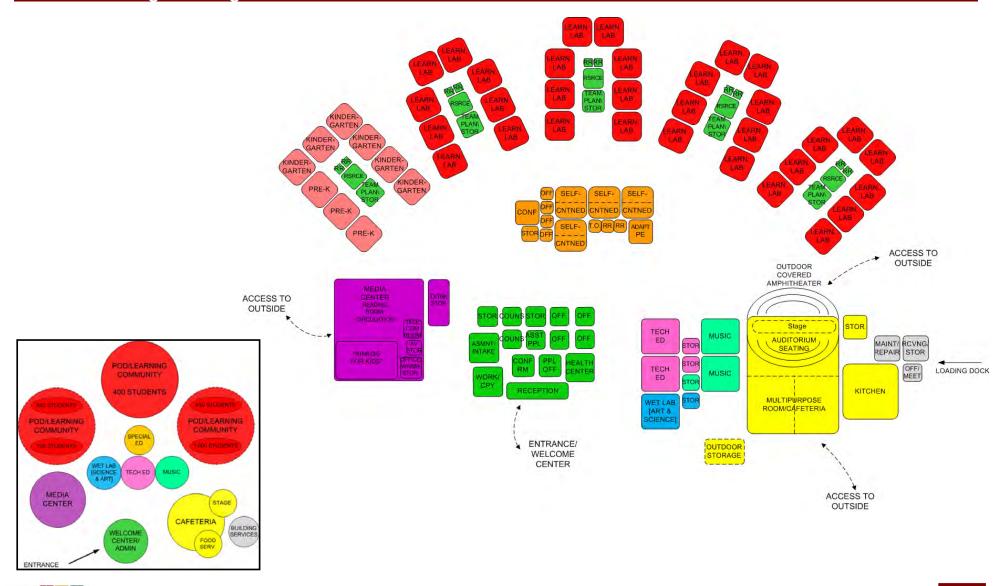


Overall Building Drawing: 700 Students





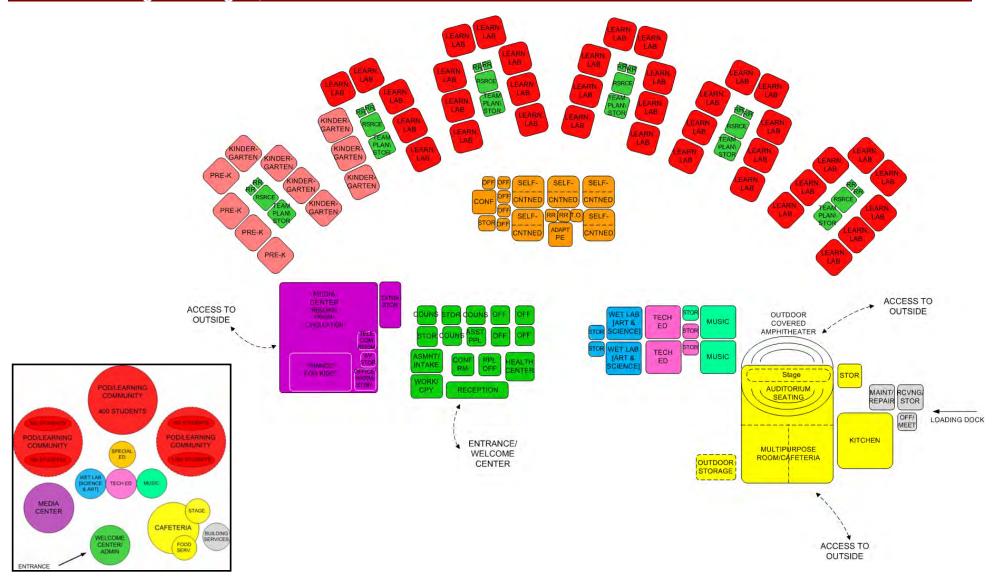
Overall Building Drawing: 850 Students







Overall Building Drawing: 1,000 Students







Program Area Space Requirements

Core Academics Space Requirements

PreK-Kindergarten Pod/Cluster

Space		Pod/	'Cluster			P	od/Cluster			Pod/C	luster			Pod/	'Cluster			Pod/	'Cluster	
	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total
Pre-Kindergarten Learning Lab/Classroom w/ Toilet	2	2	1,350	2,700	2	2	1,350	2,700	3	3	1,350	4,050	3	3	1,350	4,050	4	4	1,350	5,400
Kindergarten Learning Lab/Classroom w/ Toilet	3	3	1,350	4,050	4	4	1,350	5,400	5	5	1,350	6,750	6	6	1,350	8,100	7	7	1,350	9,450
Sub Total	5			6,750	6			8,100	8			10,800	9			12,150	11			14,850

Core Academic Grade Level Cluster/House Plan: Spaces per Pod/Cluster

Space		Pod/	Cluster	-		P	od/Cluster			Pod/Cl	uster			Pod/	'Cluster			Pod/	/Cluster	•
	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total
Learning Lab/Classroom	3	3	960	2,880	4	4	960	3,840	5	5	960	4,800	6	6	960	5,760	7	7	960	6,720
Sub Total	3			2,880	4			3,840	5			4,800	6			5,760	7			6,720
Number of Pods/Clusters				5				5				5				5				5
Total	15			14,400	20			19,200	25			24,000	30			28,800	35			33,600

Shared Between Each Grade Level Pod/Cluster

Space		Pod/	Cluster	•		Р	od/Cluster			Pod/C	uster			Pod/	Cluster			Pod/	Cluster	
	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total
Team Planning Areas		1	300	300		1	500	500		1	700	700		1	700	700		1	700	700
Resource Room [RSP, SDC: ED, MM, DHH]		1	450	450		1	450	450		1	450	450		1	450	450		1	450	450
Restrooms		2	250	500		2	250	500		2	250	500		2	250	500		2	250	500
Sub Total				1,250				1,450				1,650				1,650				1,650
Number of Pods/Clusters				2				3				4				5				6
Total				2,500				4,350				6,600				8,250				9,900

Total Core Academic Area

Total Space for Core Academic Tables Above Added Together		Suggested 400 S	d Space tudents				sted Spaces O Students		S	uggested S 700 Stu		or		Suggested 850 S	d Space tudents			Suggeste 1,000	d Space Student	
Tables Above Added Together	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total
PreK-K Learning Lab/Classroom w/ Toilet	5	5	1,350	6,750	6	6	1,350	8,100	8	8	1,350	10,800	9	9	1,350	12,150	11	11	1,350	14,850
Learning Lab/Classroom	15	15	960	14,400	20	20	960	19,200	25	25	960	24,000	30	30	960	28,800	35	35	960	33,600
Team Planning Areas & Storage		2	300	600		3	500	1,500		4	700	2,800		5	700	3,500		6	700	4,200
Resource Room [RSP, SDC: ED, MM, DHH]		2	450	900		3	450	1,350		4	450	1,800		5	450	2,250		6	450	2,700
Restrooms		4	250	1,000		6	250	1,500		8	250	2,000		10	250	2,500		12	250	3,000
Core Academic Sub-Total	20			23,650	26			31,650	33			41,400	39			49,200	46			58,350





Core Academics Space Requirements [continued]

Suggested Alternate: Uniform size Pods/Clusters Each Pod is basically the same, the only variation would be the number of Pods based on Enrollment

Sample Pod		Pod/	'Cluster	
	TS	Quantity	SF	Total
Learning Lab/Classroom	4	4	960	3,840
Sub Total	4			3,840
Number of Pods				2
Total for 2 Pods	8			7,680

Each Pod would support approx 90 Students

Shared Between Each Grade Level Pod/Cluster

Sample Area Shared Between 2 Pods		Pod/	Cluster	•
	TS	Quantity	SF	Total
Team Planning Areas & Storage		1	500	500
Resource Room [RSP, SDC: ED, MM, DHH]		1	450	450
Restrooms		2	250	500
Sub Total			•	950

Total Space for 1 Cluster [two pods]		Suggest	ed Spa	ces
Total space for T cluster [two pods]	TS	Quantity	SF	Total
Learning Lab/Classroom	8	8	960	7,680
Team Planning Areas & Storage		1	500	500
Resource Room [RSP, SDC: ED, MM, DHH]		1	450	450
Rest Rooms		2	250	500
Cluster Total	8			8,630

Each Cluster would support approximately 180 students

Special Needs Space Requirements

Special Needs Spaces		Suggeste 400 S	d Space Students			Suggeste 550 S	d Space tudent			Suggester 700 S	d Space tudents		Si	uggested 9 850 Stu		for	St	uggested S 1,000 St		or
	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total
Self-Contained Classroom* [SDC: MS, M, OI]	1	1	1,080	1,080	2	2	1,080	2,160	3	3	1,080	3,240	4	4	1,080	4,320	5	5	1,080	5,400
Restroom/Shower		1	100	100		1	100	100		1	100	100		2	100	200		2	100	200
Time-Out Room/Additional Storage		1	100	100		1	100	100		1	100	100		1	100	100		1	100	100
Student Services Offices		2	100	200		3	100	300		4	100	400		4	100	400		5	100	500
Resource/Tutorial Room [RSP, SDC: ED, MM, DHH]	See	Core Acade	emic Are	ea .	See	Core Acad	emic Are	ea .	See	Core Acade	emic Are	ea	See Co.	re Academi	c Area		See Col	e Academi	c Area	
Conference Room		1	250	250		1	250	250		1	250	250		1	250	250		1	250	250
Storage		1	100	100		1	100	100		1	100	100		1	100	100		1	100	100
Adaptive PE		1	300	300		1	300	300		1	300	300		1	300	300		1	300	300
Special Needs Sub-Total	1			2,130	2			3,310	3			4,490	4			5,670	5			6,850

^{*}classrooms divided by moveable walls; can be turned into larger room so two rooms can be combined





Media Center Space Requirements

Media Center Spaces	Suggeste 400	ed Space Student:			Suggester 550 S	d Space tudents			Suggeste 700 S	d Space Student			Suggested 850 St		or	s	uggested : 1,000 St		or
	TS Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total
Library/Media Center Main Room	1	1,500	1,500		1	1,500	1,500		1	2,000	2,000		1	2,000	2,000		1	2,500	2,500
Multi-Media Workroom/"Kinko's for Kids"	1	750	750		1	750	750		1	750	750		1	750	750		1	750	750
Media Specialist/Clerk Office	1	200	200		1	200	200		1	200	200		1	300	300		1	300	300
Textbook Storage	1	400	400		1	400	400		1	400	400		1	400	400		1	400	400
Telecommunications Room	1	200	200		1	200	200		1	200	200		1	200	200		1	200	200
A/V Storage	1	200	200		1	200	200		1	200	200		1	200	200		1	200	200
Media Center Sub-Total	0		3,250	0			3,250	0			3,750	0			3,850	0			4,350

Wet Lab [Science & Art] Space Requirements

Wet Lab[Art & Science] Spaces		Sugested 400 S	l Spaces tudents			Suggeste 550 S	d Space tudents			Suggested 700 S	d Spaces tudents		S	uggested S 850 Stu	•	or	S	uggested S 1,000 St	•	or
	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total
Wet Lab [Art & Science]	0	0	1,100	0	1	1	1,100	1,100	1	1	1,100	1,100	1	1	1,100	1,100	2	2	1,100	2,200
Storage		0	100	0		1	100	100		1	100	100		1	100	100		2	100	200
Visual Art/Wet Lab Sub-Total	0			0	1			1,200	1			1,200	1			1,200	2			2,400

Music Space Requirements

Music Spaces		Suggeste 400	ed Space Student			Suggeste 550 S	d Space Student			Suggeste 700 S	d Space		Si	uggested S 850 Stu		or	S	uggested S 1,000 St		
	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total
Music Room	1	1	1,200	1,200	1	1	1,200	1,200	1	1	1,200	1,200	2	2	1,200	2,400	2	2	1,200	2,400
Storage		1	200	200		1	200	200		1	200	200		1	200	200		1	200	200
Auditorium	See	Food Serv	vice Area	1	See	Food Serv	ice Area	9	See	Food Serv	rice Area)	See Foo	od Service A	rea		See Foo	nd Service A	<i>lrea</i>	
Music	1			1,400	1			1,400	1			1,400	2			2,600	2			2,600

Technology Education Space Requirements

Tech Ed/Computer Spaces		Sugested 400 S	l Spaces tudents			Suggeste 550 S	d Space Students			Suggeste 700 S	d Space Students		S	uggested S 850 Stu		or	S	uggested S 1,000 Stu		or
	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total
Tech Ed Lab	1	1	1,100	1,100	1	1	1,100	1,100	1	1	1,100	1,100	2	2	1,100	2,200	2	2	1,100	2,200
Storage		1	100	100		1	100	100		1	100	100		2	100	200		2	100	200
Tech Ed Sub-Total	1			1,200	1			1,200	1			1,200	2			2,400	2			2,400





Administration Space Requirements

Welcome Center Spaces	Sugested Spaces for					Suggeste			Suggested Spaces for					Suggested Spaces for				Suggested Spaces for			
	400 Students				550 Students				700 Students				850 Students				1,000 Students				
	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	
Welcome Center/Admin																					
Reception Area		1	500	500		1	500	500		1	700	700		1	700	700		1	700	700	
Secretarial Area (Combined w/ reception)		0	80	0		0	80	0		0	80	0		0	80	0		0	80	0	
Principal's Office		1	200	200		1	200	200		1	200	200		1	200	200		1	200	200	
Asst. Principal's Office		0	120	0		0	120	0		1	120	120		1	120	120		1	120	120	
Conference Room		1	300	300		1	300	300		1	300	300		1	300	300		1	300	300	
Counselor's Office		1	120	120		1	120	120		2	120	240		2	120	240		3	120	360	
Intake/Pre-Assessment Room		0	250	0		1	250	250		1	250	250		1	250	250		1	250	250	
Mail/Work/Copy Room		1	250	250		1	250	250		1	400	400		1	400	400		1	400	400	
Administrative Storage		1	150	150		1	150	150		2	150	300		2	150	300		2	150	300	
Health Clinic		1	450	450		1	450	450		1	450	450		1	450	450		1	450	450	
Additional Offices		2	120	240		3	120	360		3	120	360		4	120	480		4	120	480	
Total	0			2,210	0			2,580	0			3,320	0			3,440	0			3,560	

Food Service Space Requirements

Cafeteria/Food Service Spaces		Suggeste 400 S		Suggested Spaces for 550 Students				Suggested Spaces for 700 Students				Suggested Spaces for 850 Students				Suggested Spaces for 1,000 Students				
	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total
Kitchen, warming/serving only																				
Preparation Area						1	2,000	2,000		1	2,000	2,000								
Serving Area]	ĺ	ı	
Dry Food Storage		1												1 2,50	2,500	2,500		i '	1	2,500
Cooler/Freezer			1,500	1,500														1	2,500	
Ware Washing																				
Kitchen Mgr Office																				
Restroom																				
Lockers																				
Multipurpose Room (with dividers)*		1	2,000	2,000		1	2,000	2,000		1	2,000	2,000		1	2,500	2,500		1	2,500	2,500
Table & Chair Storage		1	200	200		1	200	200		1	200	200		1	250	250		1	250	250
Stage Area		1	600	600		1	600	600		1	600	600		1	600	600		1	600	600
Auditorium Seating						1	1,500	1,500		1	1,500	1,500		1	1,500	1,500		1	1,500	1,500
Exterior Patio/Covered Eating Area		1	2,000	Outside		1	2,000	Outside		1	2,000	Outside		1	2,000	Outside		1	2,000	Outside
Outdoor Athletic Equipment Storage		1	500	500		1	750	750		1	750	750		1	750	750		1	750	750
Food Service Sub-Total	0			4,800	0			7,050	0			7,050	0			8,100	0			8,100

^{*} Suggest a layout which there is divider wall between the auditorium and multipurpose room

Custodial / Maintenance Space Requirements

Custodial Spaces	Sugested Spaces for 400 Students				Suggested Spaces for 550 Students				Suggested Spaces for 700 Students				Suggested Spaces for 850 Students				Suggested Spaces for 1,000 Students			
	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total
Receiving/Storage		1	500	500		1	500	500		1	500	500		1	700	700		1	700	700
Maintenance/Repair Area		1	500	500		1	500	500		1	500	500		1	500	500		1	500	500
Office/Planning/Meeting Area		1	200	200		1	200	200		1	200	200		1	200	200		1	200	200
Custodial Hopper Room [throughout school]		2	100	200		4	100	400		6	100	600		8	100	800		10	100	1,000
Mechanical Rooms & Restrooms	See Builidng Service in Sum Chart			See Builidng Service in Sum Chart				See Builidng Service in Sum Chart				See Builidng Service in Sum Chart				See Builidng Service in Sum Chart				
Loading Dock			outside				outside				outside				outside				outside	
Custodial Sub-Total	0			1,400	0			1,600	0			1,800	0			2,200	0			2,400





Quantity Standards for Typical Spaces

The following tables list standards for typical spaces in an elementary school building. These tables give standard quantities for typical offices, conference rooms, mail/work/copy rooms, as well as typical learning labs/classrooms and kindergarten and pre-kindergarten rooms. These tables can also be found later in this document, within the particular program area with which they are associated. Refer to the program area section for special design requests.

STANDARDS FOR TYPICAL OFFICES

See Program Area Descriptions for other item

See Program Area Descriptions for other	ritems
FURNITURE/EQUIPMENT	QTY
Desk with return	1
Desk chair	1
Credenza in rooms > 200SF	1
Guest chairs, rooms < 150SF	2
Guest chairs, rooms 155-200SF	4
Conf chairs, rooms over 200SF	4
Conf table, rooms over 200SF	1
Bookshelves	18 LF
Marker board	4 LF
Laptop computer	1
Printer	1
File cabinet, 4 drawer	1 to 2
Bulletin board	4 LF
Clock	1

MECHANICAL	QTY
Air Conditioning	Yes

ELECTRICAL	QTY
Duplex outlet	each wall
Quad outlet @ ea. data port	1

PLUMBING	QI I
No special requirements	
TECHNOLOGY	OTV

TECHNOLOGY	QTY
Data port and/or access to wireless	1
Telephone	1
Video port	1
Intercom through phone handset	Yes

STANDARDS FOR TYPICAL CONFERENCE ROOMS

See Program Area Descriptions for other items

FURNITURE/EQUIPMENT	QTY
Modular conf table	1
Conference chairs	1/ 25 SF
Credenza, rooms > 200SF	1
Marker board	8 LF
Clg mtd data projector, rooms > 150SF	1
Drop down projection screen, rooms > 150SF	1
Bulletin board	4 LF
Clock	1

MECHANICAL	QTY
Air Conditioning	Yes

ELECTRICAL	QTY
Duplex outlet	5' oc
Quad outlet @ ea. data port	1

PLUMBING	QTY
No special requirements	

TECHNOLOGY	QTY
Data port and/or access to wireless	1
Telephone	1
Video port	1
Intercom through phone handset	Yes
Video projector, rooms > 200SF	Yes

STANDARDS FOR TYPICAL MAIL/WORK/COPY ROOMS

See Program Area Descriptions for other items

FURNITURE/EQUIPMENT	QTY
Work tables	2
Countertop over base cabinets	16 LF
Overhead cabinets	8 LF
Chairs	2
Computer workstations	1
Shelving	8 LF
Locking storage cabinet	1
Printer	1
Scanner	1
Fax machine	1
Copier w/ sorter	1
Marker board	8 LF

MECHANICAL	QTY
No special requirements	

ELECTRICAL	QTY
Duplex outlet	5' oc
Quad outlet @ ea. data port	1

PLUMBING	QTY
Hot & cold water for sink	1

TECHNOLOGY	QTY
Data port and/or access to wireless	2
Telephone	1
Intercom through phone handset	Yes





STANDARDS FOR TYPICAL LEARNING LABS/CLASSROOMS, ELEMENTARY

See Program Area Descriptions for other items

See Frogram Area Descriptions for t	Julier Heilis
FURNITURE/EQUIPMENT	QTY
Student work tables, 2 students each	13
Student chairs	26
Countertop over base cabinets	4 LF
Overhead cabinets	4 LF
Marker board	16 LF
Bulletin board	24 LF
Shelving	24 LF
Locking storage cabinet	6 LF
AIO (All in One) Device	1
Mobile bookcases, 3' long	2
Elevated pull down screen	1
Maximize bulletin board surfaces	

Operable windows	
ELECTRICAL	QTY
Duplex outlet	1 per w
Quad outlet @ ea. data port	1
Front row of light, dimmable	

QTY

MECHANICAL

Air-conditioning

PLUMBING	QTY
Hot & cold water for sink	1

TECHNOLOGY	QTY
Voice, data, video outlets at teacher desk	1
6 data drops with double, triple, or quad CNOs (Communications Network Outlets)	6
2 data drops at teacher desk area	2
Data drop dedicated to wireless, high on wall	1
Wireless Internet access	Yes

TECHNOLOGY	QTY
Analog telephone	1
Intercom	Yes
Smartboard w/ integral LCD projector	1
Audio Enhancement	1 system
Laptop computers with carts, shared	26

STANDARDS FOR TYPICAL KINDERGARTEN, PRE-KINDER, SELF-CONTAINED

See Program Area Descriptions for other items

Coo : regram / mea 2 coonputer to retries iteme	
FURNITURE/EQUIPMENT	QTY
Student work tables, 24 students each	13
Student chairs	26
Countertop over base cabinets	4 LF
Overhead cabinets	4 LF
Marker board	16 LF
Bulletin board	24 LF
Shelving	24 LF
Locking storage cabinet	6 LF
AIO (All in One) Device	1
Pull down screen	1
Elevated pull down screen	1
Maximize bulletin board surfaces	

MECHANICAL	QTY
Air-conditioning	
Operable windows	

ELECTRICAL	QTY
Duplex outlet	1 per wall
Quad outlet @ ea. data port	1
Front row of light, dimmable	

PLUMBING	QTY
Hot & cold water for sink	1
Drinking fountain	1
Restroom in each classroom	1

TECHNOLOGY	QTY
Voice, data, video outlets at teacher desk	1
6 data drops with double, triple, or quad CNOs (Communications Network Outlets)	6
2 data drops at teacher desk area	2
Data drop dedicated to wireless, high on wall	1
Wireless Internet access	Yes

TECHNOLOGY	QTY
Analog telephone	1
Intercom	Yes
Smartboard w/ integral LCD projector	1
Audio Enhancement	1 system
Laptop computers with carts, shared	K:26; PK: 16





Core Academics

Introduction

It is the goal of the Core Academic Area to provide opportunities to students to foster mastery of basic skills in reading, writing, mathematics, science, citizenship, health, technology, and other content areas; to experience and enhance their awareness and understanding of multi-cultural values, beliefs, and other aspects of society; and to become involved in inquiry-based learning expressed by hands-on, minds-on, experiences.

The Core Academic Area is composed of spaces associated with typical academic content areas such as English, Mathematics, World Language, Science, and Social Studies. Spaces include classrooms, teacher preparation areas, restrooms, and material storage.

The pages that follow contain a list of spaces and drawings illustrating the relationship between various program areas, and the individual spaces within the program area. Additionally, a description of the activities, persons to accommodate, and items to be considered is included.

Overview

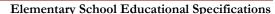
The Core Academic Area concept will be organized to facilitate an interdisciplinary approach to instruction. Characteristics of this area are:

- Ability to organize space by teams
- Instruction and facility space to encourage team and student communication
- A flexible learning environment, adaptable to change and supportive of different program delivery and organizational patterns including adequate space to support the work of teams and production of student work, and to encourage the integration of curricula

The concepts that will give direction to this interdisciplinary approach are:

- Integrated curricula
- Performance objectives for students
- Individualized/intra-dependent learning environments
- Performance assessment







- Decentralized/shared decision-making
- Coordination of services provided to students

English Goals: To accommodate the special needs and abilities of all students, the English program will provide an interesting and challenging interdisciplinary approach to:

- Lifelong reading
- Oral communication skills
- Written competency

Mathematics Goals: The goal of the math curriculum is to ensure that all students will:

- Learn to use technology efficiently and effectively
- Learn beginning problem solving and critical thinking skills
- Incorporate teamwork skills
- Communicate basic math concepts
- Learn to relate basic math concepts to real world situations

Science Goals: The goal of the science curriculum is to ensure that all students:

- Have a concern for their environment
- Learn problem-solving skills
- Learn through hands-on experiments, inquiry, observations and comparisons

Social Studies Goals: The goal of the social studies curriculum is to ensure that all students:

- Have a concern for their community
- Will have a multi-cultural awareness

Begin to learn critical thinking skills

In addition to the traditional large and small group instruction, many varied activities take place in the various Core Academic learning areas:

- Writing/composing
- Reading
- Role playing skits, acting out situations
- Hands-on projects and activities individuals and groups
- Oral presentations
- Interactive activities room-to-room, school-toschool, class-to-community
- Team teaching among all the disciplines
- Group and teamwork activities





Space Requirements

The chart below lays out each space in the Core Academic area for each size school.

PreK-Kindergarten Pod/Cluster

Space		Pod/	'Cluster			P	od/Cluster			Pod/Cl	uster			Pod/	Cluster			Pod/	Cluster	
	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total
Pre-Kindergarten Learning Lab/Classroom w/ Toilet	2	2	1,350	2,700	2	2	1,350	2,700	3	3	1,350	4,050	3	3	1,350	4,050	4	4	1,350	5,400
Kindergarten Learning Lab/Classroom w/ Toilet	3	3	1,350	4,050	4	4	1,350	5,400	5	5	1,350	6,750	6	6	1,350	8,100	7	7	1,350	9,450
Sub Total	5			6,750	6			8,100	8			10,800	9			12,150	11			14,850

Core Academic Grade Level Cluster/House Plan:	Spa	ces per Po	d/Clust	ter																
Space		Pod/	Cluster			Р	od/Cluster			Pod/Cl	uster			Pod/	Cluster			Pod/	Cluster	г
	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total
Learning Lab/Classroom	3	3	960	2,880	4	4	960	3,840	5	5	960	4,800	6	6	960	5,760	7	7	960	6,720
Sub Total	3			2,880	4			3,840	5			4,800	6			5,760	7			6,720
Number of Pods/Clusters				5				5				5				5				5
Total	15			14,400	20			19,200	25			24,000	30			28,800	35			33,600

Shared Between Each Grade Level Pod/Cluster

Shared Between Each Grade Level Four Cluster																				
Space		Pod/	Cluster			P	od/Cluster			Pod/Cl	uster			Pod/	Cluster			Pod/	Cluster	
	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total
Team Planning Areas		1	300	300		1	500	500		1	700	700		1	700	700		1	700	700
Resource Room [RSP, SDC: ED, MM, DHH]		1	450	450		1	450	450		1	450	450		1	450	450		1	450	450
Restrooms		2	250	500		2	250	500		2	250	500		2	250	500		2	250	500
Sub Total				1,250				1,450				1,650				1,650				1,650
Number of Pods/Clusters				2				3				4				5				6
Total				2,500			·	4,350				6,600				8,250				9,900

Total Core Academic Area

Total Space for Core Academic Tables Above Added Together		Suggeste 400 S	d Space Student:				sted Spaces O Students		S	uggested \$ 700 Stu		or		Suggester 850 S	d Space tudent:			Suggeste 1,000	d Space Student	
Tables Above Added Together	TS	Quantity	SF	Total	TS C	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total
PreK-K Learning Lab/Classroom w/ Toilet	5	5	1,350	6,750	6	6	1,350	8,100	8	8	1,350	10,800	9	9	1,350	12,150	11	11	1,350	14,850
Learning Lab/Classroom	15	15	960	14,400	20	20	960	19,200	25	25	960	24,000	30	30	960	28,800	35	35	960	33,600
Team Planning Areas & Storage		2	300	600		3	500	1,500		4	700	2,800		5	700	3,500		6	700	4,200
Resource Room [RSP, SDC: ED, MM, DHH]		2	450	900		3	450	1,350		4	450	1,800		5	450	2,250		6	450	2,700
Restrooms		4	250	1,000		6	250	1,500		8	250	2,000		10	250	2,500		12	250	3,000
Core Academic Sub-Total	20			23,650	26			31,650	33			41,400	39			49,200	46			58,350





Core Academics Space Requirements [continued]

Suggested Alternate: Uniform size Pods/Clusters Each Pod is basically the same, the only variation would be the number of Pods based on Enrollment

Sample Pod	Pod/Cluster									
	TS	Quantity	SF	Total						
Learning Lab/Classroom	4	4	960	3,840						
Sub Total	4			3,840						
Number of Pods				2						
Total for 2 Pods	8			7,680						

Each Pod would support approx 90 Students

Shared Between Each Grade Level Pod/Cluster

Sample Area Shared Between 2 Pods		Pod/	Pod/Cluster				
	TS	Quantity	SF	Total			
Team Planning Areas & Storage		1	500	500			
Resource Room [RSP, SDC: ED, MM, DHH]		1	450	450			
Restrooms		2	250	500			
Sub Total				950			

Total Space for 1 Cluster Itwo padel		Suggested Spaces							
Total Space for 1 Cluster [two pods]	TS	Quantity	SF	Total					
Learning Lab/Classroom	8	8	960	7,680					
Team Planning Areas & Storage		1	500	500					
Resource Room [RSP, SDC: ED, MM, DHH]		1	450	450					
Rest Rooms		2	250	500					
Cluster Total	8		_	8,630					

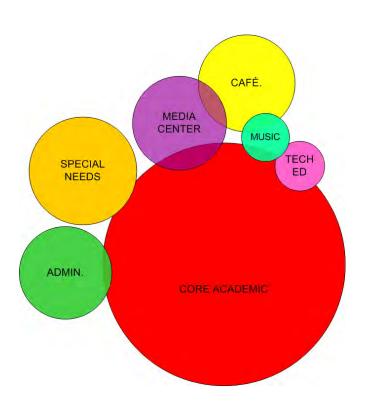
Each Cluster would support approximately 180 students



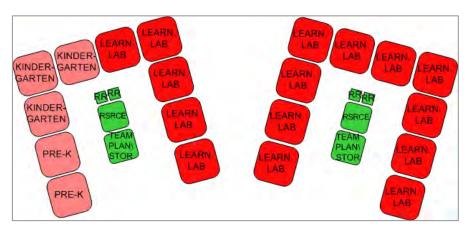


Spatial Relationships

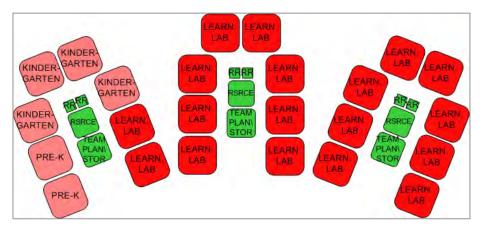
The Core Academic Program Area should be located adjacent to all other Program Areas, specifically, Special Needs, the Media Center, Physical Education, and Visual Arts. Drawings are shown for each size school.



400 Student School

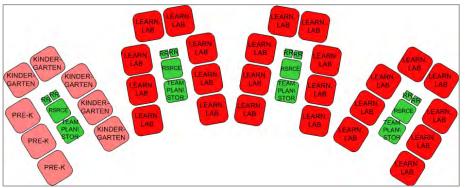


550 Student School

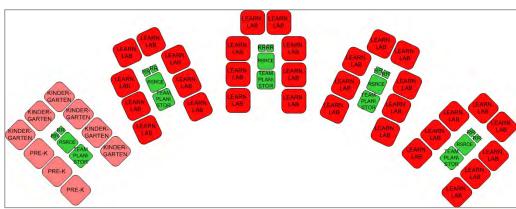




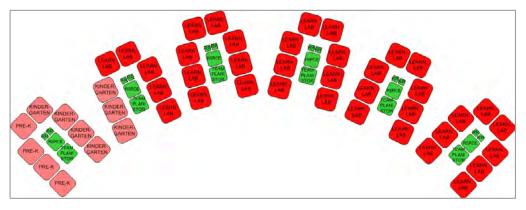
700 Student School



850 Student School



1,000 Student School



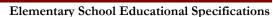






Future Potential Addition for 100 Students

Space	Pod	Pod/Cluster									
	TS	Quantity	SF	Total							
Learning Lab/Classroom	3	3	960	2,880							
Team Planning Areas/Faculty Lounge		1	250	250							
Instructional Material Storage		1	150	150							
Resource Room w/divider wall		1	960	960							
Small Group Room		1	150	150							
Total				4,390							



ELECTRICAL



STANDARDS FOR TYPICAL LEARNING LABS/CLASSROOMS, ELEMENTARY

See Program Area Descriptions for other items

See Flogram Area Descriptions for other items							
FURNITURE/EQUIPMENT	QTY						
Student work tables, 2 students each	13						
Student chairs	26						
Countertop over base cabinets	4 LF						
Overhead cabinets	4 LF						
Marker board	16 LF						
Bulletin board	24 LF						
Shelving	24 LF						
Locking storage cabinet	6 LF						
AIO (All in One) Device	1						
Mobile bookcases, 3' long	2						
Elevated pull down screen	1						
Maximize bulletin board surfaces							

MECHANICAL	QTY
Air-conditioning	
Operable windows	

ELECTRICAL	QTY
Duplex outlet	1 per wall
Quad outlet @ ea. data port	1
Front row of light, dimmable	

PLUMBING	QTY
Hot & cold water for sink	1

TECHNOLOGY	QTY
Voice, data, video outlets at teacher desk	1
6 data drops with double, triple, or quad CNOs (Communications Network Outlets)	6
2 data drops at teacher desk area	2
Data drop dedicated to wireless, high on wall	1
Wireless Internet access	Yes

TECHNOLOGY	QTY
Analog telephone	1
Intercom	Yes
Smartboard w/ integral LCD projector	1
Audio Enhancement	1 system
Laptop computers with carts, shared	26

STANDARDS FOR TYPICAL KINDERGARTEN, PRE-KINDER, SELF-CONTAINED

See Program Area Descriptions for other items

See Program Area Descriptions for other items	
FURNITURE/EQUIPMENT	QTY
Student work tables, 24 students each	13
Student chairs	26
Countertop over base cabinets	4 LF
Overhead cabinets	4 LF
Marker board	16 LF
Bulletin board	24 LF
Shelving	24 LF
Locking storage cabinet	6 LF
AIO (All in One) Device	1
Pull down screen	1
Elevated pull down screen	1
Maximize bulletin board surfaces	

MECHANICAL	QTY
Air-conditioning	
Operable windows	

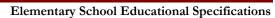
Duplex outlet	1 per wall
Quad outlet @ ea. data port	1
Front row of light, dimmable	
PLUMBING	QTY

PLUMBING	QTY
Hot & cold water for sink	1
Drinking fountain	1
Restroom in each classroom	1

TECHNOLOGY	QTY
Voice, data, video outlets at teacher desk	1
6 data drops with double, triple, or quad CNOs (Communications Network Outlets)	6
2 data drops at teacher desk area	2
Data drop dedicated to wireless, high on wall	1
Wireless Internet access	Yes

TECHNOLOGY	QTY
Analog telephone	1
Intercom	Yes
Smartboard w/ integral LCD projector	1
Audio Enhancement	1 system
Laptop computers with carts, shared	K:26; PK: 16







STANDARDS FOR TYPICAL CONFERENCE ROOMS

See Program Area Descriptions for other items	
FURNITURE/EQUIPMENT	QTY
Modular conf table	1
Conference chairs	1/ 25 SF
Credenza, rooms > 200SF	1
Marker board	8 LF
Clg mtd data projector, rooms > 150SF	1
Drop down projection screen, rooms > 150SF	1
Bulletin board	4 LF
Clock	1
	I

MECHANICAL	QTY
Air Conditioning	Yes

ELECTRICAL	QTY
Duplex outlet	5' oc
Quad outlet @ ea. data port	1

PLUMBING	QTY
No special requirements	

TECHNOLOGY	QTY
Data port and/or access to wireless	1
Telephone	1
Video port	1
Intercom through phone handset	Yes
Video projector, rooms > 200SF	Yes

STANDARDS FOR TYPICAL MAIL/WORK/COPY ROOMS

See Program Area Descriptions for other items

FURNITURE/EQUIPMENT	QTY
Work tables	2
Countertop over base cabinets	16 LF
Overhead cabinets	8 LF
Chairs	2
Computer workstations	1
Shelving	8 LF
Locking storage cabinet	1
Printer	1
Scanner	1
Fax machine	1
Copier w/ sorter	1
Marker board	8 LF
_	

MECHANICAL	QTY
No special requirements	

ELECTRICAL	QTY
Duplex outlet	5' oc
Quad outlet @ ea. data port	1

PLUMBING	QTY
Hot & cold water for sink	1

TECHNOLOGY	QTY
Data port and/or access to wireless	2
Telephone	1
Intercom through phone handset	Yes





sample photo: does not represent LBUSD facilities

Learning Labs/ Classrooms

Activities and Persons

The following tables reflect the anticipated activities to be conducted in the space and the persons making use of the space.



- Individual, small, and large group activities
- Storage of materials
- Project-based learning
- Demonstrations
- Computer-based instruction



- Students
- Teachers
- Aides
- Volunteers
- Staff

Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.

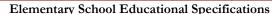


- Sink with hot and cold water
- Bathrooms in PreK, K, and Special Ed. Classrooms
- Drinking fountain



- Multiple quad electrical outlets on each wall
- Overhead lighting with banked switching
- Room darkening capability
- Controlled day lighting







Technology

- Access to voice, video, data ports, and electrical outlets
- Intercom
- Teacher data port separate from student data ports
- LCD projector with pull-down screen

Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.

Doors & Vindows

- Door with windows (no blinds)
- Windows with blinds
- View panel at door
- Windows to corridor and /or Learning Community
- Double-paned and tinted

Furniture & Equipment

The following table reflects the considerations for furniture and other equipment needed within the space

Furniture & Equipment

- Flexible or multiple display surfaces
- Portable closets/cabinets
- Bookcases
- Pocket Doors 5 ft wide space
- Age appropriate and adjustable furniture
- Bulletin boards and white magnetic boards
- Corkboard on cupboard doors
- Kidney/teacher worktable for small group instruction

Special Considerations

The following table reflects design considerations for the space.



- Individual student shelves for books, independent reading material
- Baskets/boxes
- Folding doors that can be used for display
- Space for hanging students' coats and backpacks
- Vinyl Tile Flooring
- Acoustics to block noise from airports, roads, traffic, etc.



Team Planning & Storage

Activities and Persons

The following tables reflect the anticipated activities to be conducted in the space and the persons making use of the space.

- Teacher planning and collaboration
- Team meetings
- Scheduling of appointments
- Record keeping
- Preparation of teaching materials
- Lunch
- Copying
- Collating
- Storage of team materials
- Storage of teaching materials

Teachers
Staff
Aides
Volunteers

Activities

Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.

Mechanical

No special requirements

Plumbing

Staff restroom with sink

electrical & eighting

- Duplex electrical outlets on each wall
- Electrical service for photocopy machine
- Overhead lighting
- Controlled day lighting

Technology

- Access to voice, video, data ports, and electrical outlets
- LCD Projector
- * Telephone with outside line
- Keypad access





Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.



View panel at door

Furniture & Equipment

The following table reflects the considerations for furniture and other equipment needed within the space

- Lockable storage cabinets
- Flexible surfaces
- Storage cabinets
- Desks and chairs
- Round tables for conferencing and lunch
- Casework to include:
 - Countertop with sink, base and wall cabinets
 - Lockable storage cabinets
 - Wall shelving
- Copier
- Binding equipment
- # Fax machine and printers
- Laminating machine
- * Paper storage, shredder, and cutter
- Tack board/marker board
- Clock
- Abundant shelving
- Storage bins

Special Considerations

The following table reflects design considerations for the space.

Special Considerations

- Adequate counter-top space for small appliances
- Acoustical privacy
- Small appliances (coffee, refrigerator, microwave)
 - Telephone with outside lines

Furniture & Equipment



Resource Room [RSP, SDC: ED, MM, DHH]

Activities and Persons

The following tables reflect the anticipated activities to be conducted in the space and the persons making use of the space.

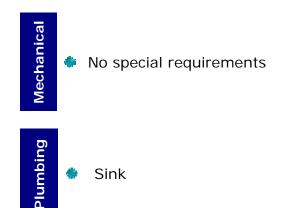
- Individual, small, and large group activities
- Independent study
- Small group project work
- Tutoring
- Conferences
- Observation of the outside environment
- Display of student work and educational materials
- Art and other "messy" projects
- Computer-based learning
- Storage

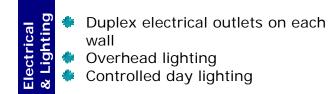
Activities

Pull-out activities

Teachers
Aides
Staff
Students
Volunteers

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.





Access to voice, video, data ports, and electrical outlets

Building System Requirements





Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.



- One-way glass for observation
- Visual access from the classroom or from the corridor
- Same as Learning Lab/Classroom

Furniture & Equipment

The following table reflects the considerations for furniture and other equipment needed within the space



- Lockable storage cabinets
- Flexible surfaces
- Abundant shelving
- Flexible or multiple display surfaces
- Modular, group-able tables
- Shelving unit against walls
- Same as Learning Lab/Classroom

Special Considerations

The following table reflects design considerations for the space.

ecial insiderations

- Spill and stain-resistant flooring
- Handicapped accessible and accessible to large wheelchairs
- If possible accessible to Team Planning room
- Adjustable cubicles
- Acoustical privacy



Pre-K and Kindergarten Classrooms

Activities and Persons

The following tables reflect the anticipated activities to be conducted in the space and the persons making use of the space.

Activities

- Whole group
- Teacher directed
- Small group
- One-on-one instruction
- Cooperative learning

Persons

- Students
- Teachers
- Parents
- Volunteers
- Other Staff

Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.

Mechanical

No special requirements

Plumbing

- Sink with hot and cold water
- Drinking fountain
- Bathroom

Electrical & Lighting

- 2 quad electrical outlets on each wall
- Banked switching to allow varied light levels

Technology

- * Telephone/intercom/voicemail port
- Video port and monitor
- Data ports
- Data port for teacher
- Quad outlet adjacent to each data port
- Listening center (headphones, audio devices)
- LCD projector with pull-down screen

Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.

Doors & Windows

- Door: view panel
- Windows: operable, with blinds to allow controlled natural lighting



Furniture & Equipment

The following table reflects the considerations for furniture and other equipment needed within the space.

- Casework to include:
 - Countertop with sink, base, and wall cabinets
 - 4 tall storage cabinets with shelving, drawers and lockable doors
 - Adjustable height bookshelves
 - Large, shallow drawers for poster board and chart paper
 - File Cabinets
- # Fixed cubbies for student storage
- Magnetic marker board on primary and secondary teaching wall
- Tack board at each end of marker board on primary wall
- Tack strip above marker board
- Networked computers
- Portable sand table
- Puppet theater
- Kidney shaped table
- Lego table
- Low projects table with rails
- Chart stand
- Child-sized living room furniture set
- Big book stand
- Painting easel
- Age appropriate and adjustable mobile furniture
- Coat closet with closing doors and bulletin board material on outside

Special Considerations

The following table reflects design considerations for the space.

Considerations

- Comfortable rooms with pleasant décor that contribute to an atmosphere conducive to creativity
- Adequate storage for mats, instructional materials
- Tile flooring
- Acoustics to block noise from airports, roads, traffic, etc.



Pre-K and Kindergarten Restrooms

Activities and Persons

The following tables reflect the anticipated activities to be conducted in the space and the persons making use of the space.

Activities

Personal hygiene

Persons

Students

Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.

Mechanical

Exhaust fan



- Sink with hot and cold water
- Toilet (child size)
- Floor drains for cleaning
- Mirrors

Technology

No special requirements

Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.

Doors & Windows

* Door: Solid, no window; no lock

Furniture & Equipment

The following table reflects the considerations for furniture and other equipment needed within the space.

Furniture & Equipment

No special requirements



Special Considerations

The following table reflects design considerations for the space.

Special Considerations

No special requirements







Special Needs

Introduction

The goal of the Special Education Program Area is to meet the needs of students with disabilities within the least restrictive environment, enabling them to become responsible, life-long learners. To meet students' needs, the Special Education Program provides instruction within the general education environment through an inclusion process as well as separate classrooms for those students who need a self-contained environment.

Overview

For Long Beach Unified School District, the Special Needs Program Area includes spaces for self-contained [MS, M, OI] and mainstreamed students as well as support spaces such as a resource/tutorial room [RSP, SDC: MM, ED, DHH], conference room, offices and material storage may be shared with others.

The pages that follow contain a list of spaces and drawings illustrating the relationship between various program areas, and the individual spaces within the program area. Additionally, a description of the activities, persons to accommodate, and items to be considered is included.

Long Beach also has self-contained classrooms for their learning disabled students who are on a diploma track [departmentalized].

Long Beach also offers "outsource schools" for students who cannot succeed on a comprehensive campus. Extra spaces are provided in these schools.





Special Needs Categories

RSP - Resource Specialist Program

Class size: 5-6

Tutorial

Curriculum – Strategies for Success [learning strategies]

Students participate in five general education classes

SDC - Special Day Class

M/M: Mild/Moderate Learning Disabled

Class size: 13Departmentalized

Diploma or certificate track students

Some students in elective general education classes

E/D: Emotionally Disturbed

Class size: 13

Diploma or certificate track students

M/S: Moderate Severe

Class size: 9

Certificate; life skills

Self-contained

O/I: Orthopedically Impaired

Class size: 9

Diploma or certificate track students

Self-contained

DHH: Deaf/Hard of Hearing

Class size: 9

Interpreters

Diploma or certificate track students

Some self-contained and some mainstreamed

"M" Class

Class size: 13

Functional academic, life skills, vocational training

Certificate track students

Self-contained





Space Requirements

The following table lists the type, quantity, and size of each space to be included in the special needs area.

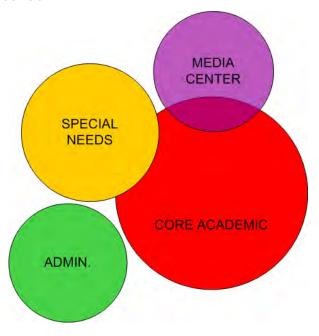
Special Needs Spaces		Suggeste 400 S	d Space Students			Suggested Spaces for Suggested Spaces for 550 Students 700 Students			Suggested Spaces for 850 Students				Suggested Spaces for 1,000 Students							
	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total
Self-Contained Classroom* [SDC: MS, M, OI]	1	1	1,080	1,080	2	2	1,080	2,160	3	3	1,080	3,240	4	4	1,080	4,320	5	5	1,080	5,400
Restroom/Shower		1	100	100		1	100	100		1	100	100		2	100	200		2	100	200
Time-Out Room/Additional Storage		1	100	100		1	100	100		1	100	100		1	100	100		1	100	100
Student Services Offices		2	100	200		3	100	300		4	100	400		4	100	400		5	100	500
Resource/Tutorial Room [RSP, SDC: ED, MM, DHH]	See	Core Acad	emic Are	ea .	See	Core Acade	emic Are	ea .	See	Core Acade	emic Are	ea .	See Cor	e Academi	c Area		See Cor	e Academi	ic Area	
Conference Room		1	250	250		1	250	250		1	250	250		1	250	250		1	250	250
Storage		1	100	100		1	100	100		1	100	100		1	100	100		1	100	100
Adaptive PE		1	300	300		1	300	300		1	300	300		1	300	300		1	300	300
Special Needs Sub-Total	1			2,130	2		, in the second	3,310	3		, in the second	4,490	4			5,670	5	, and the second second		6,850

^{*}classrooms divided by moveable walls; can be turned into larger room so two rooms can be combined

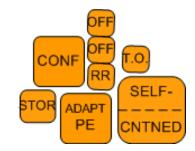


Spatial Relationships

The Special Education Program Area should be within adjacent to the Core Academic Program Areas, Media Center and Administration. Drawings are shown for each size school.



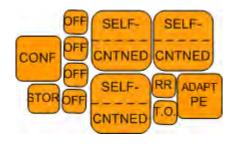
400 Student School



550 Student School



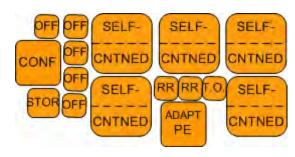
700 Student School



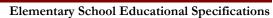
850 Student School



1,000 Student School









STANDARDS FOR TYPICAL KINDERGARTEN, PRE-KINDER, SELF-CONTAINED

See Program Area Descriptions for other items

dee Frogram Area Descriptions for other items					
FURNITURE/EQUIPMENT	QTY				
Student work tables, 24 students each	13				
Student chairs	26				
Countertop over base cabinets	4 LF				
Overhead cabinets	4 LF				
Marker board	16 LF				
Bulletin board	24 LF				
Shelving	24 LF				
Locking storage cabinet	6 LF				
AIO (All in One) Device	1				
Pull down screen	1				
Elevated pull down screen	1				
Maximize bulletin board surfaces					

MECHANICAL	QTY
Air-conditioning	
Operable windows	

ELECTRICAL	QTY
Duplex outlet	1 per wall
Quad outlet @ ea. data port	1
Front row of light, dimmable	

PLUMBING	QTY
Hot & cold water for sink	1
Drinking fountain	1
Restroom in each classroom	1

TECHNOLOGY	QTY
Voice, data, video outlets at teacher desk	1
6 data drops with double, triple, or quad CNOs (Communications Network Outlets)	6
2 data drops at teacher desk area	2
Data drop dedicated to wireless, high on wall	1
Wireless Internet access	Yes

TECHNOLOGY	QTY
Analog telephone	1
Intercom	Yes
Smartboard w/ integral LCD projector	1
Audio Enhancement	1 system
Laptop computers with carts, shared	K:26; PK: 16

STANDARDS FOR TYPICAL CONFERENCE ROOMS

See Program Area Descriptions for other items

QTY
1
1/ 25 SF
1
8 LF
1
1
4 LF
1

MECHANICAL	QTY
Air Conditioning	Yes

ELECTRICAL	QTY
Duplex outlet	5' oc
Quad outlet @ ea. data port	1

PLUMBING	QTY
No special requirements	

TECHNOLOGY	QTY
Data port and/or access to wireless	1
Telephone	1
Video port	1
Intercom through phone handset	Yes
Video projector, rooms > 200SF	Yes
·	



Self Contained Classrooms [MS, M, OI]

Activities and Persons

The following tables reflect the anticipated activities to be conducted in the space and the persons making use of the space.

Activities

- Individual, small, and large group activities
- * Storage of materials, equipment
- Project-based learning
- Computer-based instruction

Persons

- Students
- Teachers
- Parents
- Volunteers
- Other staff

Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.



Moveable wall to divide room

Plumbing

- Sink with hot and cold water, adjustable heights
- Drinking fountain
- Attached restroom

Electrical & Lighting

- Two duplex electrical outlets on each wall
- Banked switching to allow varied light levels

Technology

- Telephone/intercom/voicemail port
- Video port and monitor
- Data ports
- Quad outlet adjacent to each data port
- * Audio enhancement system
- LCD projector with pull-down screen

Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.

Doors & Windows

- Door: view panel, outside accessibility, wheelchair accessible with push button control
- Windows: operable, with blinds to allow controlled natural lighting

Furniture & Equipment

The following table reflects the considerations for furniture and other equipment needed within the space.

- Casework to include:
 - Countertop with sink, base, and wall cabinets
 - 4 tall storage cabinets with shelving, drawers and lockable doors
 - Adjustable height bookshelves
 - Large shallow drawers sized to hold poster board and chart paper
 - Drawers for teacher storage
 - Lockable file cabinets
- Fixed cubbies for student storage with hooks
- Tables, chairs, and student desks that are mobile
- Networked computers
- Kidney shaped table
- Magnetic marker board on primary and secondary teaching wall
- Tack board at each end of marker board on primary wall
- 🏶 Tack strip above marker board

Special Considerations

The following table reflects design considerations for the space.

- Comfortable rooms with pleasant décor that contribute to an atmosphere conducive to creativity
- Proportion classroom for effective viewing and listening from all areas of the classroom
- Plenty of natural/quality lighting
- Wheelchair accessibility
- VCT tile/spill resistant flooring
- Mats on floor

Special Considerations

- Wheelchair accessibility
- Wide hallways to include wheelchair storage without fire code violation
- Storage specifically for mobility equipment
- Walking bars in hallway & restroom
- Adjustable foot benches



Restroom/ Shower

Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.

Activities

Personal hygiene

Persons

- Nurse
- Aides
- Students
- Teachers

Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.

Mechanical

- Exhaust fan
- High speed air dryers

Plumbing

- Sink with hot and cold water
- Toilet
- Shower with hand held shower head

Electrical & Lighting

Duplex electrical outlets on each wall

Technology

Telephone access

Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.

Doors & Windows

- Door: no view panel
- Windows: none
- * Stalls with lower dividers for potty
- training & supervision
 Wheelchair accessible



Furniture & Equipment

The following table reflects the considerations for furniture and other equipment needed within the space.

urniture & Equipment

- Casework to include:
 - Cabinet with mirror
- Changing table
- Storage for diapers, clothing, and medical equipment/supplies
- Rolled toiled paper dispenser
- # Handrail/grab bar
- Extra wall space for adaptive toilet chairs

Special Considerations

The following table reflects design considerations for the space.

Special Considerations

Adjacent to Health Clinic





Student Services Office

Activities and Persons

The following tables reflect the anticipated activities to be conducted in the space and the persons making use of the space.

Activities

Administrative work

Scheduling

Persons

Occupational Therapist

Physical Therapist

Aides

Staff

Volunteers

Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.

Mechanical

No special requirements

Plumbing

Sink

Electrical & Lighting

Duplex electrical outlets on each wall

Overhead lighting

Controlled day lighting

Technology

 Access to voice, video, data ports, and electrical outlets

Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.

Doors & Windows

One-way glass for observation



Furniture & Equipment

The following table reflects the considerations for furniture and other equipment needed within the space



- Lockable storage cabinets
- Flexible surfaces
- Abundant shelving
- Flexible or multiple display surfaces

Special Considerations

The following table reflects design considerations for the space.

Special Considerations

Accessible to Conference Room





Resource/Tutorial Room [RSP, SDC: ED, MM, DHH]

See Core Academic





Conference Room

Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.

Activities

Small group meetings/conferences

Persons

- Administrators/Counselors/Staff
- Parents
- Students
- Visitors

Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.

Mechanical

No special requirements

Plumbing

No special requirements

Electrical & Lighting

- Multiple duplex electrical outlets on each wall
- Overhead lighting

Technology

- Telephone/intercom/voicemail port
- * Video port and monitor
- Data ports
- Quad outlet adjacent to each data port
- * Video conference unit
- White board/screen
- LCD projector and computer

Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.

Doors & Windows

Door: large view panel with optional sidelight



Furniture & Equipment

The following table reflects the considerations for furniture and other equipment needed within the space.

niture & uipment

Casework to include:

- Counter top with sink, base and wall cabinets
- Conference tables and chairs
- Side chairs
- Magnetic marker board
- Tack board
- Clock

Special Considerations

The following table reflects design considerations for the space.

Special Considerations

- Consideration for sound transfer
- Carpeting



Storage

Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.

* Storage

Staff

Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.

• No special requirements

Plumbing ** No

No special requirements

Electrical & Lighting

Duplex electrical outlets on each wall

Technology

No special requirements

Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.

Doors & Windows

* Door: solid with keypad access

Windows: none



Furniture & Equipment

The following table reflects the considerations for furniture and other equipment needed within the space.

Furniture & Equipment

- Casework to include:
 - Countertop with base cabinets
 - Lockable storage cabinets
 - Wall shelving
- Lockable file cabinets
- Paper storage, shredder, and cutter

Special Considerations

The following table reflects design considerations for the space.

Special Considerations

No special requirements





Adaptive PE

Activities and Persons

The following tables reflect the anticipated activities to be conducted in the space and the persons making use of the space.

Activities

- Individual, small, and large group activities
- Storage of materials
- Physical therapy
- Occupational therapy
- Storage

Persons

- Occupational Therapist
- Physical Therapist
- Aides
- Staff
- Volunteers

Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.

Mechanical

No special requirements

Plumbing

Adjustable sinkLaundry facilities

Electrical Lighting

- Duplex electrical outlets on each wall
- Overhead lighting
- Controlled day lighting

Technology

 Access to voice, video, data ports, and electrical outlets

Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.

Doors & Windows

- One-way glass for observation
- Wheelchair accessible doors with push button to open





Furniture & Equipment

The following table reflects the considerations for furniture and other equipment needed within the space



- Lockable storage cabinets, large enough for mobility equipment
- Flexible surfaces
- Abundant shelving
- Flexible or multiple display surfaces

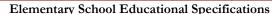
Special Considerations

The following table reflects design considerations for the space.

Special Considerations

- Room for different OT/PT activities such as motor skill development
- Movable partition to divide room
- Handicapped accessible and accessible to large wheelchairs
- Accessible to teachers' center









Media Center

Introduction

The Media Center will serve as the information hub of the school, providing access to materials within and outside the physical facility. An important aspect of this area is the continual use of printed material as well as electronic sources of information. Through various networks the Media Center will maintain 2-way communication with all parts of the building, all schools within the district, homes and businesses that are on-line [either via cable or telephone lines], colleges, universities, public libraries, and other remote sources.

All curricular areas of the school will share the Media Center instructional technologies, which include computers, audio, database access, and Internet information technologies. The Media Center is a technology-intensive environment, with computer information stations located throughout the Reading/Learning/Circulation area.

Overview

The Media Center will be utilized by all students, staff, teachers, and community members. Therefore, a centrally located Media Center with public access would be ideal.

The Media Center will consist of:

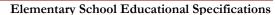
- Reading Room / Circulation
- Media Specialist Office/Workroom
- * Technology Control Center
- A/V Storage
- Media Production Room

The Media Center maintains a high profile in the life of the school and is an active participant.

An emphasis was placed on the Media Center providing experiences regarding the following opportunities for students:

- Identify, evaluate, and communicate information
- Exercise responsibility when using materials, information, and technology
- Maintain the highest standards of scholarship
- Develop the habits of confident, skillful, and discerning readers







Students are expected to become self-directed learners and feel comfortable using the Media Center for any field of inquiry.

The Media Center will serve students in grades Pre-Kindergarten through Fifth. Its resources are available to all students in an atmosphere that is inviting, comfortable, and vibrant.

The Media Center should have flexible work and social settings for multiple activities that take place simultaneously. The Media Center also provides spaces for reflection.

The pages that follow contain a list of spaces and drawings illustrating the relationship between various program areas, and the individual spaces within the program area. Additionally, a description of the activities, persons to accommodate, and items to be considered is included.



sample photo: does not represent LBUSD facilities





Space Requirements

The following table lists the type, quantity, and size of each space to be included in the media center.

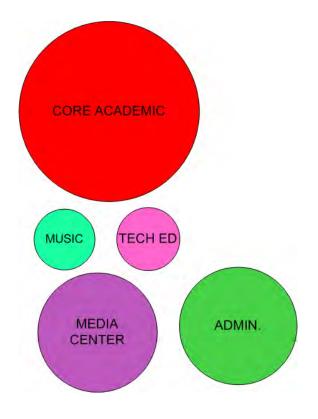
Media Center Spaces	Suggested Spaces for 400 Students				Suggested Spaces for 550 Students					Suggested Spaces for 700 Students			Suggested Spaces for 850 Students				Suggested Spaces for 1,000 Students			
	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total
Library/Media Center Main Room		1	1,500	1,500		1	1,500	1,500		1	2,000	2,000		1	2,000	2,000		1	2,500	2,500
Multi-Media Workroom/"Kinko's for Kids"		1	750	750		1	750	750		1	750	750		1	750	750		1	750	750
Media Specialist/Clerk Office		1	200	200		1	200	200		1	200	200		1	300	300		1	300	300
Textbook Storage		1	400	400		1	400	400		1	400	400		1	400	400		1	400	400
Telecommunications Room		1	200	200		1	200	200		1	200	200		1	200	200		1	200	200
A/V Storage		1	200	200		1	200	200		1	200	200		1	200	200		1	200	200
Media Center Sub-Total	0			3,250	0			3,250	0			3,750	0			3,850	0			4,350

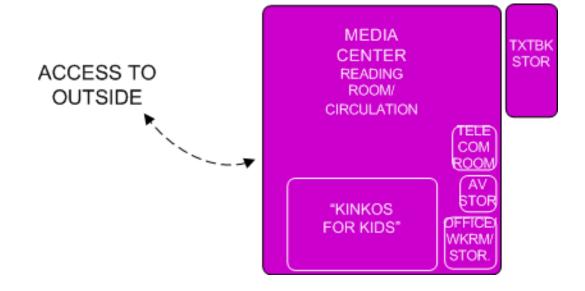




Spatial Relationships

The Media Center Program Area should be in a centralized location and easily accessed by the community. It should also be adjacent to the Core.











STANDARDS FOR TYPICAL OFFICES

See Program Area Descriptions for other items

See Program Area Descriptions for other Items				
FURNITURE/EQUIPMENT	QTY			
Desk with return	1			
Desk chair	1			
Credenza in rooms > 200SF	1			
Guest chairs, rooms < 150SF	2			
Guest chairs, rooms 155-200SF	4			
Conf chairs, rooms over 200SF	4			
Conf table, rooms over 200SF	1			
Bookshelves	18 LF			
Marker board	4 LF			
Laptop computer	1			
Printer	1			
File cabinet, 4 drawer	1 to 2			
Bulletin board	4 LF			
Clock	1			

MECHANICAL	QTY
Air Conditioning	Yes

ELECTRICAL	QTY
Duplex outlet	each wall
Quad outlet @ ea. data port	1

PLUMBING	QTY
No special requirements	

TECHNOLOGY	QTY
Data port and/or access to wireless	1
Telephone	1
Video port	1
Intercom through phone handset	Yes





Activities

Reading Room/Circulation

Activities and Persons

The following tables reflect the anticipated activities to be conducted in the space and the persons making use of the space.

- Reading
- Story area
- Circulation of materials and resources
- Whole group and small group instruction
- Provide meeting areas
- Research
- Students
- Information searchers
- Individual students for research
- Media specialist
- Paraprofessional
- Community patrons for after school hours
- Volunteers

Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.

Mechanical

No special requirements

Plumbing

No special requirements

Electrical & Lighting

Technology

- Duplex electrical outlets on each wall
- Full spectrum lighting
- Ability to control specific lighting areas

Video ports and monitorsData ports

Quad outlet adjacent to each data port

Telephone/intercom/voicemail port

- Wireless access points throughout school
- Ceiling, table, or wall mounted LCD projector; drop down screen
- Wireless laptops with carts for battery recharging
- **#** ELMO
- Combo VCR/DVD player





Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.

Vindows

- * Door: double doors large view panel
- Door: swinging half door into circulation desk and work area
- Windows: operable, with blinds to allow controlled natural lighting

Furniture & Equipment

The following table reflects the considerations for furniture and other equipment needed within the space.

- Casework to include:
 - Appropriate height book shelving
 - Circulation counter and base cabinets centrally located
 - Countertop with base and wall cabinets
 - Periodical shelving
 - Display cases [secure/lockable]
 - Built-in cabinets/shelving behind circulation desk for processing
- 4-6 person tables with chairs
- Soft seating/separate reading area
- Appropriately proportioned furniture for PreK-5th grade students
- Computer tables and chairs
- Printers and printer tables
- Networked computers w/access to programs and card catalog
- Electronic mounted screen
- Tack board
- Magnetic marker board
- Photocopy machine

Special Considerations

The following table reflects design considerations for the space.

- Natural light
- Ceiling height proportionate to room dimensions
- Open flow for traffic in reference/ professional/periodicals area
- Auditory privacy
- Provide method to darken room for AV presentations
- Access to Media Center during/ after school hours while maintaining security in the remainder of the school
- Carpeting

Special Considerations

- Line of site across media center
- Bookshelves with flat tops for display of student work
- Space for special collections e.g. holidays, professional library for staff
- Line of site across media center
- Bookshelves with flat tops for display of student work
- Outside reading garden/small amphitheater



Furniture & Equipment



Multi-Media Workroom/"Kinkos for Kids"

Activities and Persons

The following tables reflect the anticipated activities to be conducted in the space and the persons making use of the space.

Activities

- Multi-media production
- Preparing for Distance Learning
- Preparing for presentations

*

Persons

- Students, teachers and classes
- Individual students
- Media specialist
- Media assistants

Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.

Mechanical

No special requirements

Plumbing

No special requirements

Electrical & Lighting

- Duplex electrical outlets on each wall
- Full spectrum lighting
- Ability to control specific lighting areas

Technology

- * Telephone/intercom/voicemail port
- Video ports and monitors
- Data ports
- Quad outlet adjacent to each data port
- Wireless access points throughout school
- LCD Projector and drop down screen
- Wireless laptops with carts for battery recharging
- Printers
- Copiers





Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.

Doors & Windows

- Door: double doors large view panel
- Windows: operable, with blinds for controlled natural lighting

Special Considerations

The following table reflects design considerations for the space.

Special Considerations

- Natural light
- Auditory privacy
- Carpeting with some non-carpeted areas

Furniture & Equipment

The following table reflects the considerations for furniture and other equipment needed within the space.

Equipment

ॐ

Furniture

- Casework to include:
 - Circulation counter and base cabinets
 - Countertop with base and wall cabinets
 - Periodical shelving
 - Display cases [secure/lockable]
 - Built-in cabinets/shelving behind circulation desk for processing
 - Corkboard on front of casework
- Computer tables and chairs
- Printers and printer tables
- Networked computers w/access to programs and online catalog and databases
- LCD projector and mounted screen
- Tack board
- Magnetic marker board
- Built in TV/DVD/VCR and video conference equipment
- Networked copy machine





Media Specialist/Clerk Office

Activities and Persons

The following tables reflect the anticipated activities to be conducted in the space and the persons making use of the space.

Activities

- Administrative work
- Scheduling
- * Processing materials
- Preparing materials for lessons
- Minor repairs

Persons

- Media Specialist
- Library Staff

Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.

Mechanical

No special requirements

Plumbing

No special requirements

Electrical & Lighting

Duplex electrical outlets on each wall

Technology

- Telephone/intercom/voicemail port
- Video port and monitor
- Data port for each workstation
- Quad outlet adjacent to data port

Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.

Doors & Windows

- Door with lock: view panel
- Windows: share glass windows with Reading Room to see entire LMC



Furniture & Equipment

The following table reflects the considerations for furniture and other equipment needed within the space.

- Casework to include:
 - Counter top with base and wall cabinets
 - File cabinet
 - Bookcases
 - Locking cabinet for supplies
 - Coat closet
- Desk and chair
- Networked computer
- Printer
- Magnetic marker board
- Small tack board
- Fax

Furniture & Equipment

- Copy machine
- Paper cutter
- Laminator

Special Considerations

The following table reflects design considerations for the space.

- Auditory privacy
- Adjacent to workroom/storage
- Carpeting



Textbook Storage

Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.

• Storage

Bersons Staff

Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.

* No special requirements

Plumbing

No special requirements



Duplex electrical outlets on each wall

Technology

- Telephone/intercom/voicemail port
- Video port and monitor
- Data ports, one adjacent to entrance door
- Quad outlet adjacent to each data port

Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.

Doors & Windows

Door: solid



Furniture & Equipment

The following table reflects the considerations for furniture and other equipment needed within the space.

- Casework to include:
 - Countertop with base and wall cabinets
 - Lockable storage cabinets
 - Wall shelving
- # Fireproof storage cabinets
- Clock

Special Considerations

The following table reflects design considerations for the space.

- Vinyl tile
- Adjacent to library with direct access to student walkway
- Window or half door for book distribution to students



Telecommunications Room

Activities and Persons

The following tables reflect the anticipated activities to be conducted in the space and the persons making use of the space.

Activities

- Security
- Networking of computers
- Storage of licensed technology

Persons

- Media specialist
- Technology technician
- Other staff

Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.

Mechanical

HVAC to meet requirements of heat producing equipment

Plumbing

No special requirements

Electrical & Lighting

- Duplex electrical outlets on each wall
- Electrical outlets with building surge protectors as needed
- Dedicated circuits with grounds

echnology

- * Telephone/intercom/voicemail port
- Video port and monitor
- Data port
- Quad outlet adjacent to each data port
- Wireless network equipment
- * Satellite access
- Video distribution system

Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.

Doors & Windows

- * Door: view window, lockable
- Windows: no windows



Furniture & Equipment

The following table reflects the considerations for furniture and other equipment needed within the space.

- Equipment racks
- Shelving for video/cable system
- Desk and chair
- Two rolling storage carts with locks for laptop units
- Compact disc interactive
- Still video players
- VCR/DVD combo player
- CD/DVD burner

Special Considerations

The following table reflects design considerations for the space.

Special Considerations

Vinyl tile or carpet





A/V Storage

Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.

Activities

Storage of A/V equipment and supplies

Persons

- Media Specialist
- Paraprofessional

Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.

Mechanical

No special requirements

Plumbing

No special requirements



Duplex electrical outlets on each



No special requirements

Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.



- Door: view panel
- Windows: none



Furniture & Equipment

The following table reflects the considerations for furniture and other equipment needed within the space.

Furniture & Equipment

- Casework to include:
 - Adjustable, deep shelving built to ceiling height
 - Large, flat paper storage drawers
 - File cabinets
 - Cabinets
- Equipment racks

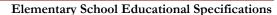
Special Considerations

The following table reflects design considerations for the space.



Vinyl tile flooring







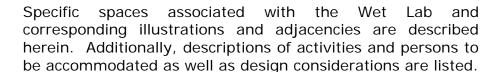


sample photo: does not represent LBUSD facilities

Wet Lab [Science and Art]

Introduction

The Wet Lab will accommodate art and science projects. Students will experience computer skills, experimentation, and the integration of instruction with arts, mathematics, science, and other content areas. This space will increase the student's knowledge and appreciation for the visual arts as well as scientific experiments.





sample photo: does not represent LBUSD facilities





Space Requirements

The following table lists the type, quantity, and size of each space to be included in the science/art web lab.

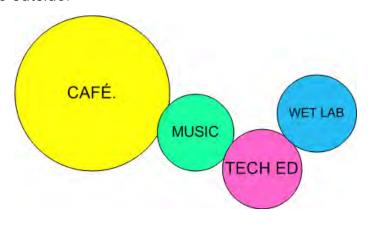
Wet Lab[Art & Science] Spaces	Sugested Spaces for 400 Students			Suggested Spaces for 550 Students				Suggested Spaces for 700 Students			Suggested Spaces for 850 Students				Suggested Spaces for 1,000 Students					
	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total
Wet Lab [Art & Science]	0	0	1,100	0	1	1	1,100	1,100	1	1	1,100	1,100	1	1	1,100	1,100	2	2	1,100	2,200
Storage		0	100	0		1	100	100		1	100	100		1	100	100		2	100	200
Visual Art/Wet Lab Sub-Total	0			0	1			1,200	1			1,200	1			1,200	2			2,400



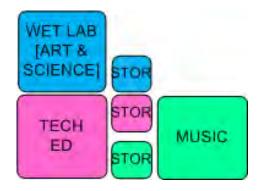


Spatial Relationships

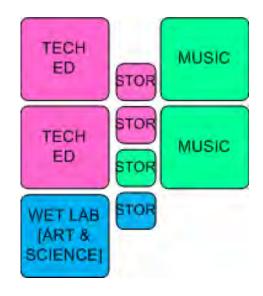
The Wet Lab should be adjacent to Technology Education and the outside.



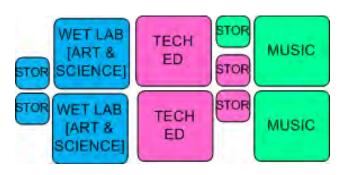
550 and 700 Student School



850 Student School



1,000 Student School









STANDARDS FOR TYPICAL LEARNING LABS/CLASSROOMS, ELEMENTARY

See Program Area Descriptions for other items

See I Togram Area Descriptions for other items						
FURNITURE/EQUIPMENT	QTY					
Student work tables, 2 students each	13					
Student chairs	26					
Countertop over base cabinets	4 LF					
Overhead cabinets	4 LF					
Marker board	16 LF					
Bulletin board	24 LF					
Shelving	24 LF					
Locking storage cabinet	6 LF					
AIO (All in One) Device	1					
Mobile bookcases, 3' long	2					
Elevated pull down screen	1					
Maximize bulletin board surfaces						

MECHANICAL	QTY
Air-conditioning	
Operable windows	

ELECTRICAL	QTY
Duplex outlet	1 per wall
Quad outlet @ ea. data port	1
Front row of light, dimmable	

PLUMBING	QTY
Hot & cold water for sink	1

TECHNOLOGY	QTY
Voice, data, video outlets at teacher desk	1
6 data drops with double, triple, or quad CNOs (Communications Network Outlets)	6
2 data drops at teacher desk area	2
Data drop dedicated to wireless, high on wall	1
Wireless Internet access	Yes

TECHNOLOGY	QTY
Analog telephone	1
Intercom	Yes
Smartboard w/ integral LCD projector	1
Audio Enhancement	1 system
Laptop computers with carts, shared	26



Wet Lab

Activities and Persons

The following tables reflect the anticipated activities to be conducted in the space and the persons making use of the space.

Activities

- Whole group and small group instruction
- Project-based learning
- Experiments
- Professional Development

Persons

- Teachers
- Students
- Individual students for experiments/projects
- Art/Science specialist
- Community patrons for after school hours
- Volunteers

Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.

Mechanical

- Adequate ventilation
- Air conditioning

Plumbing

No special requirements

Electrical & Lighting

- Duplex electrical outlets on each wall and near teacher station
- Ability to control specific lighting areas
- Room darkening capability

Technology

- Telephone/intercom/voicemail port
- Video ports and monitors
- Data ports
- Quad outlet adjacent to each data port
- Wireless access points throughout school
- Area for distance learning
- LCD projector with pull-down screen
- Networked computers
- Teacher networked computer



Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.



Windows: operable, with blinds to allow controlled natural lighting

Furniture & Equipment

The following table reflects the considerations for furniture and other equipment needed within the space.

Furniture & Equipment

- Printers and printer tables
- Wall cabinets
- Magnetic marker board
- Tack board
- Computer tables and chairs
- Individual chairs and tables that can be moved around for individual and/or collaborative projects
- Variety of large and small objects
- Layout should maximize shelving and storage
- Counter tops

Special Considerations

The following table reflects design considerations for the space.

Special Considerations

- Auditory privacy
- Provide method to darken room for AV presentations
- Access to Library/Media Center during/ after school hours while maintaining security in the remainder of the school
- Printing publishing area



Storage

Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.

Activities Storage

Persons

Staff

Community Members

Volunteers

Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.

Mechanical

Air conditioning

Plumbing

No special requirements

Electrical & Lighting

Duplex electrical outlets on each wall

Overhead lighting

Technology

No special requirements

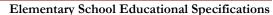
Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.

Doors & Windows

Door: solid

🌞 Windows: needed







The pages that follow contain a list of spaces and drawings illustrating the relationship between various program areas, and the individual spaces within the program area. Additionally, a description of the activities, persons to accommodate, and items to be considered is included.

sample photo: does not represent LBUSD facilities

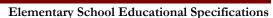
Music

Introduction

It is the goal of the music program to increase the student's knowledge and appreciation for music and the performing arts and to integrate music with the core curriculum.

The purpose of the Music Classroom is to provide a space that will serve as the learning/practice area for general music classes.







Space Requirements

The following table lists the type, quantity, and size of each space to be included in the music area.

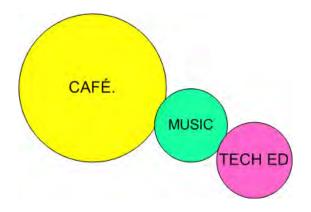
Music Spaces	Sugested Spaces for 400 Students			Suggested Spaces for 550 Students			Suggested Spaces for 700 Students			Suggested Spaces for 850 Students				Suggested Spaces for 1,000 Students						
	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total
Music Room	1	1	1,200	1,200	1	1	1,200	1,200	1	1	1,200	1,200	2	2	1,200	2,400	2	2	1,200	2,400
Storage		1	200	200		1	200	200		1	200	200		1	200	200		1	200	200
Auditorium	See	Food Ser	vice Area	7	See Food Service Area			See Food Service Area			See Food Service Area				See Food Service Area					
Music	1			1,400	1			1,400	1			1,400	2			2,600	2			2,600



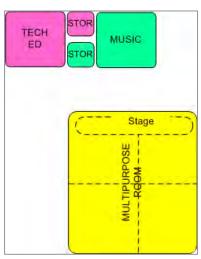


Spatial Relationships

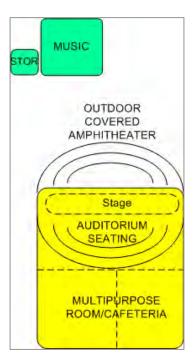
The Music Program Area should be adjacent to Technology Education and to the Stage, located in the cafeteria.



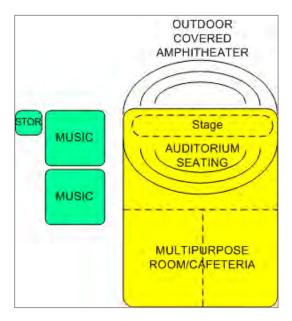
400 Student School



550 & 700 Student School



850 & 1,000 Student School







STANDARDS FOR TYPICAL LEARNING LABS/CLASSROOMS, ELEMENTARY

See Program Area Descriptions for other items

See Program Area Descriptions for other items				
FURNITURE/EQUIPMENT	QTY			
Student work tables, 2 students each	13			
Student chairs	26			
Countertop over base cabinets	4 LF			
Overhead cabinets	4 LF			
Marker board	16 LF			
Bulletin board	24 LF			
Shelving	24 LF			
Locking storage cabinet	6 LF			
AIO (All in One) Device	1			
Mobile bookcases, 3' long	2			
Elevated pull down screen	1			
Maximize bulletin board surfaces				

MECHANICAL	QTY
Air-conditioning	
Operable windows	

ELECTRICAL	QTY
Duplex outlet	1 per wall
Quad outlet @ ea. data port	1
Front row of light, dimmable	

PLUMBING	QTY
Hot & cold water for sink	1

TECHNOLOGY	QTY
Voice, data, video outlets at teacher desk	1
6 data drops with double, triple, or quad CNOs (Communications Network Outlets)	6
2 data drops at teacher desk area	2
Data drop dedicated to wireless, high on wall	1
Wireless Internet access	Yes

TECHNOLOGY	QTY
Analog telephone	1
Intercom	Yes
Smartboard w/ integral LCD projector	1
Audio Enhancement	1 system
Laptop computers with carts, shared	26



Music Room

Activities and Persons

community

classes

Parents

The following tables reflect the anticipated activities to be conducted in the space and the persons making use of the space.

* Rehearsals, 40-60 students

Instruction for music and core

Gathering performance area Recitals Meeting area for school and

Activities

Students Teachers

Persons

Volunteers Other staff Community

Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.

Mechanical

Quiet HVAC system [noise from mechanical equipment should not be audible in classroom1

Plumbing

Sink with hot and cold water

Technology

- Duplex electrical outlets on each
- Adequate lighting for room with multiple dimming capabilities

Video port and monitor

- * Telephone/intercom/voicemail port
- Data ports
- Data port for teacher
- Quad outlet adjacent to each data port
- Sound system w/microphone, amplifier, mixer, turntable, speaker for recording and playing back student rehearsals, performances
- # LCD projector with pull-down screen



Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.

Doors & Windows

- Door: double doors that lead onto stage
- Windows: operable, blinds to allow controlled natural lighting

Furniture & Equipment

The following table reflects the considerations for furniture and other equipment needed within the space.

- * Casework to include:
 - Countertops with wall cabinets
 - 4 tall storage cabinets with shelving, drawers and lockable doors
 - Wardrobe cabinets
 - Music storage cabinets: sufficient to hold all instruments when room is used as community space
- Printer and printer table
- Desk and chair
- Portable risers and guard rails
- Computer/keyboard lab tables

Equipment

- •
- CD/DVD player/burner, tape player, and digital video camera
 - Networked computers
 - Magnetic marker board with music staff on one section
 - Tack boards and strips
 - Large area rug
 - Instrument carts
 - Piano
 - Stackable chairs
 - Music stands

Special Considerations

The following table reflects design considerations for the space.

onsiderations

- Appropriate acoustical treatment to minimize disruptions from adjacent rooms and to enhance sound quality/ performance
- No noise from external sources
- Direct access to stage from music room
- Vinyl Tile flooring with area rug

Furniture & Equipment



Music Storage

Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.

Activities

Storage of textbooks, instruments, equipment and supplies

Persons

Teacher

Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.

Mechanical

No special requirements

Plumbing

No special requirements

Electrical & Lighting

- Duplex electrical outlets on each wall
- Adequate lighting for space

Technology

No special requirements

Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.

Doors & Windows

- Door: view panel
- Windows: no special requirements



Furniture & Equipment

The following table reflects the considerations for furniture and other equipment needed within the space.

Furniture & Equipment

- Casework to include:
 - Heavy duty, adjustable shelving on 3 walls
 - File cabinets
- Music folio cabinet
- # Instrument storage shelving

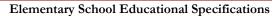
Special Considerations

The following table reflects design considerations for the space.

Special Considerations

No special requirements









sample photo: does not represent LBUSD facilities

Technology Education

Introduction

The Technology Education Program will focus on computer skills, project-based introduction to tools, and the integration of instruction with arts, mathematics, science, and other content areas. Technology Education fosters teamwork, problem-solving, technological literacy, and communication skills.

Specific spaces associated with Technology Education and corresponding illustrations and adjacencies are described herein. Additionally, descriptions of activities and persons to be accommodated as well as design considerations are listed.



Space Requirements

The following table lists the type, quantity, and size of each space to be included in technology education.

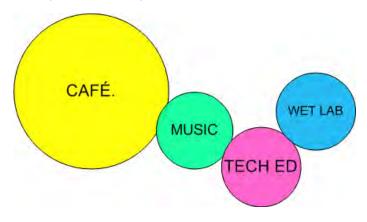
Tech Ed/Computer Spaces		Sugested 400 S	d Spaces			Suggester 550 S	d Space Students						uggested S 850 Stu		or	Suggested Spaces for 1,000 Students				
	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total
Tech Ed Lab	1	1	1,100	1,100	1	1	1,100	1,100	1	1	1,100	1,100	2	2	1,100	2,200	2	2	1,100	2,200
Storage		1	100	100		1	100	100		1	100	100		2	100	200		2	100	200
Tech Ed Sub-Total	1			1,200	1			1,200	1			1,200	2			2,400	2			2,400





Spatial Relationships

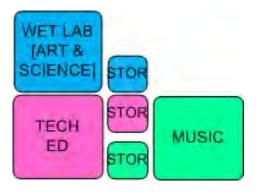
The Technology Education Area should be adjacent to the Cafeteria, Music Area, and the outside.



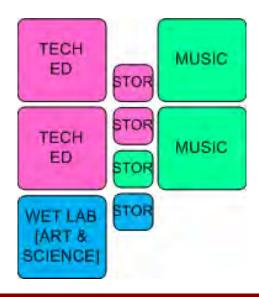
400 Student School

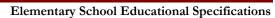


550 and 700 Student School



850 and 1,000 Student School







STANDARDS FOR TYPICAL LEARNING LABS/CLASSROOMS, ELEMENTARY

See Program Area Descriptions for other items

See Program Area Descriptions for other items						
FURNITURE/EQUIPMENT	QTY					
Student work tables, 2 students each	13					
Student chairs	26					
Countertop over base cabinets	4 LF					
Overhead cabinets	4 LF					
Marker board	16 LF					
Bulletin board	24 LF					
Shelving	24 LF					
Locking storage cabinet	6 LF					
AIO (All in One) Device	1					
Mobile bookcases, 3' long	2					
Elevated pull down screen	1					
Maximize bulletin board surfaces						

MECHANICAL	QTY
Air-conditioning	
Operable windows	

ELECTRICAL	QTY
Duplex outlet	1 per wall
Quad outlet @ ea. data port	1
Front row of light, dimmable	

PLUMBING	QTY
Hot & cold water for sink	1

TECHNOLOGY	QTY
Voice, data, video outlets at teacher desk	1
6 data drops with double, triple, or quad CNOs (Communications Network Outlets)	6
2 data drops at teacher desk area	2
Data drop dedicated to wireless, high on wall	1
Wireless Internet access	Yes

TECHNOLOGY	QTY
Analog telephone	1
Intercom	Yes
Smartboard w/ integral LCD projector	1
Audio Enhancement	1 system
Laptop computers with carts, shared	26



Tech Education Lab

Activities and Persons

The following tables reflect the anticipated activities to be conducted in the space and the persons making use of the space.

Activities

- Whole group and small group instruction
- Project-based learning
- Research
- Computer learning
- Professional Development

Persons

Teachers

- Students
- Individual students for research
- Media specialist
- Community patrons for after school hours
- Volunteers

Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.

Mechanical

- Adequate ventilation
- Air conditioning

Plumbing

No special requirements

Electrical & Lighting

- Duplex electrical outlets on each wall and near teacher station
- Ability to control specific lighting areas
- Room darkening capability

Technology

- Telephone/intercom/voicemail port
- Video ports and monitors
- Data ports
- Quad outlet adjacent to each data port
- Wireless access points throughout school
- Area for distance learning
- LCD projector with pull-down screen
- Networked computers



Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.



Windows: operable, with blinds to allow controlled natural lighting

Furniture & Equipment

The following table reflects the considerations for furniture and other equipment needed within the space.

Furniture & Equipment

- Printers and printer tables
- Wall cabinets
- Magnetic marker board
- Tack board
- Computer tables and chairs
- Individual chairs and tables that can be moved around for individual and/or collaborative projects
- Variety of large and small objects
- Layout should maximize shelving and storage

Special Considerations

The following table reflects design considerations for the space.

Special Considerations

- Auditory privacy
- Provide method to darken room for AV presentations
- Access to Library/Media Center during/ after school hours while maintaining security in the remainder of the school
- Printing publishing area



Storage

Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.

Activities Storage

Persons

- Staff
- Community Members
- Volunteers

Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.

Wechanical

Air conditioning

Plumbing

No special requirements

Electrical & Lighting

- Duplex electrical outlets on each wall
- Overhead lighting

Technology

No special requirements

Doors & Windows

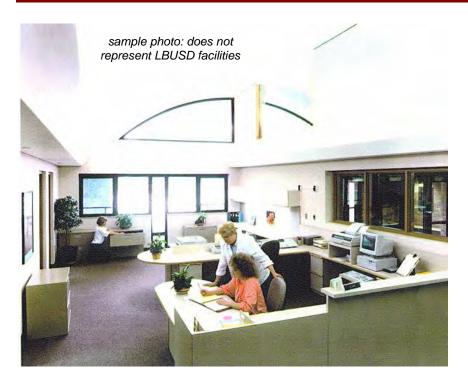
The following table reflects the considerations for the doors and windows to be used in the space.

Doors & Windows

- Door: solid
- Windows: none



Welcome Center



Introduction

Administration/Guidance will provide the organizational and instructional leadership needed to create an atmosphere that is conducive for teaching and learning. This area includes the administrative functions of the school and is combined with student support services (counselors, health, support staff, etc.). The administration/guidance area will assist in coordinating overall instruction and will serve as the hub of the building.

Overview

The Administration/Guidance area will house facilities for several different student services including: Reception area, Secretarial area, Principal's office, Assistant Principal's office Conference room, Mail/Work/Copy room, Administrative storage.

The pages that follow contain a list of spaces and drawings illustrating the relationship between various program areas and the individual spaces within the program area. Additionally, a description of the activities, persons to accommodate, and items to be considered is included.





Space Requirements

The following table lists the type, quantity, and size of each space to be included in the administration area/ welcome center. Offices will be used by Speech, Social worker, etc.

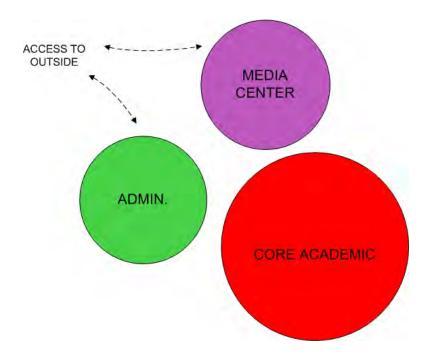
	Sugested Spaces for			Suggested Spaces for					Suggested Spaces for				Suggested Spaces for				Suggested Spaces for			
Welcome Center Spaces		400 5	Student	<u>s</u>		550 9	Student	S	700 Students				850 Students				1,000 Students			
	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total
Welcome Center/Admin																				
Reception Area		1	500	500		1	500	500		1	700	700		1	700	700		1	700	700
Secretarial Area (Combined w/ reception)		0	80	0		0	80	0		0	80	0		0	80	0		0	80	0
Principal's Office		1	200	200		1	200	200		1	200	200		1	200	200		1	200	200
Asst. Principal's Office		0	120	0		0	120	0		1	120	120		1	120	120		1	120	120
Conference Room		1	300	300		1	300	300		1	300	300		1	300	300		1	300	300
Counselor's Office		1	120	120		1	120	120		2	120	240		2	120	240		3	120	360
Intake/Pre-Assessment Room		0	250	0		1	250	250		1	250	250		1	250	250		1	250	250
Mail/Work/Copy Room		1	250	250		1	250	250		1	400	400		1	400	400		1	400	400
Administrative Storage		1	150	150		1	150	150		2	150	300		2	150	300		2	150	300
Health Clinic		1	450	450		1	450	450		1	450	450		1	450	450		1	450	450
Additional Offices		2	120	240		3	120	360		3	120	360		4	120	480		4	120	480
Total	0			2,210	0			2,580	0			3,320	0			3,440	0			3,560



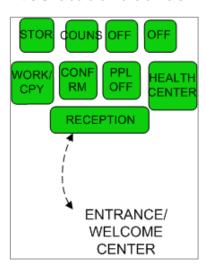


Spatial Relationships

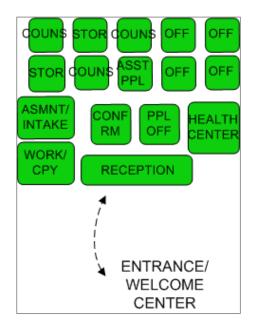
The Administrative Program Area should be located near the school's entrance. It should be adjacent to the Media Center and the Core Academic Program Area.



400 Student School



1,000 Student School







STANDARDS FOR TYPICAL OFFICES

See Program Area Descriptions for other items

See Program Area Descriptions for	
FURNITURE/EQUIPMENT	QTY
Desk with return	1
Desk chair	1
Credenza in rooms > 200SF	1
Guest chairs, rooms < 150SF	2
Guest chairs, rooms 155-200SF	4
Conf chairs, rooms over 200SF	4
Conf table, rooms over 200SF	1
Bookshelves	18 LF
Marker board	4 LF
Laptop computer	1
Printer	1
File cabinet, 4 drawer	1 to 2
Bulletin board	4 LF
Clock	1
1	

MECHANICAL	QTY
Air Conditioning	Yes

ELECTRICAL	QTY
Duplex outlet	each wall
Quad outlet @ ea. data port	1

PLUMBING	QTY
No special requirements	

TECHNOLOGY	QTY
Data port and/or access to wireless	1
Telephone	1
Video port	1
Intercom through phone handset	Yes

STANDARDS FOR TYPICAL MAIL/WORK/COPY ROOMS

See Program Area Descriptions for other items

See Program Area Descriptions for	otner items
FURNITURE/EQUIPMENT	QTY
Work tables	2
Countertop over base cabinets	16 LF
Overhead cabinets	8 LF
Chairs	2
Computer workstations	1
Shelving	8 LF
Locking storage cabinet	1
Printer	1
Scanner	1
Fax machine	1
Copier w/ sorter	1
Marker board	8 LF

MECHANICAL	QTY
No special requirements	

ELECTRICAL	QTY
Duplex outlet	5' oc
Quad outlet @ ea. data port	1

PLUMBING	QTY
Hot & cold water for sink	1

TECHNOLOGY	QTY
Data port and/or access to wireless	2
Telephone	1
Intercom through phone handset	Yes

STANDARDS FOR TYPICAL CONFERENCE ROOMS

See Program Area Descriptions for other items

FURNITURE/EQUIPMENT	QTY
Modular conf table	1
Conference chairs	1/ 25 SF
Credenza, rooms > 200SF	1
Marker board	8 LF
Clg mtd data projector, rooms > 150SF	1
Drop down projection screen, rooms > 150SF	1
Bulletin board	4 LF
Clock	1

MECHANICAL	QTY
Air Conditioning	Yes

ELECTRICAL	QTY
Duplex outlet	5' oc
Quad outlet @ ea. data port	1

PLUMBING	QTY
No special requirements	

TECHNOLOGY	QTY
Data port and/or access to wireless	1
Telephone	1
Video port	1
Intercom through phone handset	Yes
Video projector, rooms > 200SF	Yes





Reception Area (combined with Secretarial Area)

Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.

Activities

- Greeting people and directing them to the proper location or person
- Waiting area for students, visitors and staff members

Persons

- School staff
- Student population
- Parents

Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.

Mechanical

Chimes to indicate entrance into building

Plumbing

No special requirements



Multiple duplex electrical outlets on each wall



- Telephone/intercom/voicemail port at each workstation
- Video port and monitor
- Data ports for each workstation
- Quad outlet for each data port

Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.

Doors & Windows

- Door: view panel
- Windows: operable, with blinds to allow controlled natural lighting





The following table reflects the considerations for furniture and other equipment needed within the space.

- iture & oment
- Couches and chairs, comfortable seating for students and visitors
 - Locking file cabinets
 - Information board
 - Message board
 - Bulletin board
 - Magnetic marker board
 - Clock

Special Considerations

The following table reflects design considerations for the space.

Special Considerations

- Bright, yet soft lighting
- Inviting to visitors
- * Colorful
- Secure entry for visitors
- Tile flooring



Secretarial Area

Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.

Activities

- Greeting people and directing them to the proper location or person
- Assisting in administrative duties

Persons

School staff

Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.

Mechanical

No special requirements

Plumbing

No special requirements

Electrical & Lighting

Duplex electrical outlets on each wall

echnology

- Telephone/intercom/voicemail port at each workstation
- Video port and monitor
- Data ports for each workstation
- Quad outlet for each data port
- Station for walkie talkie chargers

Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.

Doors & Windows

- Door: view panel
- Windows: operable, with blinds to allow controlled natural lighting



The following table reflects the considerations for furniture and other equipment needed within the space.

- Desk/computer workstation:
 - 1 at 300 student school
 - \$2 at 450 & 600 student schools
- Locking file cabinets
- Ergonomic task chairs
- Bulletin board
- Magnetic marker board
- Message board
- Networked computers
- Synchronized clock

Special Considerations

The following table reflects design considerations for the space.

scial siderations

- Bright, yet soft lighting
- Inviting to visitors
- Colorful
- Secure entry for visitors
- * Tile flooring
- Secretarial area combined with Reception area





Principal's Office

Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.

Activities

- Conferences with staff and other visitors
- * Telephone calls
- Administrative activities
- Planning
- Computer input

Persons

- Principal
- Small group meetings [6-8 people]

Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.

Mechanical

No special requirements

Plumbing

1 bathroom immediately adjacent to office

Electrical & Lighting

Multiple duplex electrical outlets on each wall

Technolog y

- Telephone/intercom/voicemail port
- Video port and monitor
- Data ports [walls & floors]
- Quad outlet adjacent to each data port

Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.

Doors & Windows

- Door: narrow view panel [two entrances]
- Windows: operable, blinds to allow controlled natural lighting
- Interior window with blinds to view in-school suspension room



The following table reflects the considerations for furniture and other equipment needed within the space.

- Casework to include:Storage cabinets
 - Bookshelves
 - File cabinets
 - Wardrobe closet
- Desk and chair
- Conference table
- Side chairs and couch
- Lamps
- Networked computer
- * Small refrigerator/ microwave
- Magnetic marker board
- Clock

Special Considerations

The following table reflects design considerations for the space.



Furniture & Equipment

- Second exit for security
- Carpeting





Assistant Principal's Office

Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.

Activities

- Conferences with staff and other visitors
- * Telephone calls
- Administrative activities
- Planning
- Computer input

Persons

Assistant Principal

Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.

Mechanical

No special requirements

Plumbing

No special requirements



Duplex electrical outlets on each wall



- Telephone/intercom/voicemail port
- Video port and monitor
- Data ports
- Quad outlet adjacent to each data port

Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.

Joors & Windows

- Door: narrow view panel [two entrances]
- Windows: operable, with blinds to allow controlled natural lighting
- Interior window with blinds to view in-school suspension room



The following table reflects the considerations for furniture and other equipment needed within the space.

Furniture & Equipment

- Casework to include:
 - Storage cabinets
 - Bookshelves
 - File cabinets
- Desk and chair
- Side chairs
- Lamps
- Networked computer
- Magnetic marker board
- Clock
- * Table

Special Considerations

The following table reflects design considerations for the space.



Carpeting





Conference Room

Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.

Activities

* Small group meetings/conferences

Persons

- Administrators/Counselors/Staff
- Parents
- Students
- Visitors

Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.

Mechanical

No special requirements

Plumbing

No special requirements

Electrical & Lighting

- Multiple duplex electrical outlets on each wall
- Overhead lighting

Technology

- Telephone/intercom/voicemail port
- * Video port and monitor
- Data ports
- Quad outlet adjacent to each data port
- * Video conference unit
- White board/screen
- LCD projector and computer

Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.

Doors & Windows

Door: large view panel with optional sidelight



The following table reflects the considerations for furniture and other equipment needed within the space.

niture & uipment Casework to include:

- Counter top with sink, base and wall cabinets
- Conference tables and chairs
- Side chairs
- Magnetic marker board
- Tack board
- Clock

Special Considerations

The following table reflects design considerations for the space.

Special Considerations

- Consideration for sound transfer
- Carpeting



Guidance Counselor's Office

Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.

Activities

- Counseling of students with concerns
- Conferencing with parents, students, and staff

Persons

- Counselors
- School staff
- Parents
- Students
- Visitors

Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.

Mechanical

No special requirements

Plumbing

No special requirements



Duplex electrical outlets on each wall

Fechnology

- Telephone/intercom/voicemail port
- Video port and monitor
- Data ports
- Quad outlet adjacent to each data port

Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.

Doors & Windows

- Door: narrow or view panel with blinds
- Windows: desired if possible; operable with blinds for privacy



The following table reflects the considerations for furniture and other equipment needed within the space.

Furniture & Equipment

Casework to include:

- Bookcases
- Storage closet/ wardrobe
- Locking file cabinets [min of 3]
- Legal size file lateral drawer
- Desk and chair
- Side chairs and table
- Rolling carts
- Lamps
- Networked computer
- Bulletin board
- Magnetic marker board
- Clocks

Special Considerations

The following table reflects design considerations for the space.

Special Considerations

- Auditory/visual privacy
- Carpeting



Mail/Work/Copy Room

Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.

- Copying
- Collating
- Preparing communications for mailing
- Laminating, book making
- General office work
- Delivery of general office mail
- Storage

Persons

Staff

Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.

Mechanical

Ventilation to prevent copier from overheating

Plumbing

- Sink with hot and cold water
- Soap dispenser

Electrical & Lighting

Duplex electrical outlets on each wall

Technology

- Telephone/intercom/voicemail port
- Video port and monitor
- Data ports
- Quad outlet adjacent to each data port

Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.

Doors & Windows

- Door: large view panel with optional sidelight
- Windows: no special requirements



The following table reflects the considerations for furniture and other equipment needed within the space.

- Casework to include:
 - Countertop with sink, base and wall cabinets
 - Lockable storage cabinets
 - Wall shelving
- Work tables and chairs
- Staff mailboxes [with hallway access]
- Networked computer
- Copier
- Binding equipment
- Fax machine and printers
- Laminating machine
- * Paper storage, shredder, and cutter
- Tack board/marker board
- Clock

Furniture & Equipment

- Poster maker machine
- AccuCut letter/shape cutter
- Butcher paper cart

Special Considerations

The following table reflects design considerations for the space.

Special Consideratio

- Consideration for sound transfer
- Vinyl tile



Administrative Storage

Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.





Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.

Wechanical with the second of the second of



No special requirements

Electrical & Lighting

Duplex electrical outlets on each wall

Technology

* Telephone/intercom/voicemail port

Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.



- Door: solid
- Windows: operable blinds for privacy



The following table reflects the considerations for furniture and other equipment needed within the space.

Furniture & Equipment

- Casework to include:
 - Countertop with base and wall cabinets
 - Lockable storage cabinets
 - Wall shelving
- Fireproof storage cabinets
- Clock

Special Considerations

The following table reflects design considerations for the space.



Vinyl tile





Restrooms

Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.

Activities

Personal Hygiene

Persons

- Teachers
- Administration

Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.

Mechanical

Exhaust fan

Plumbing

- Sink with hot and cold water
- Toilet

Electrical & Lighting

Duplex electrical outlets on each wall

Technology

No special requirements

Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.

Doors & Windows

- Door: no view panel
- Windows: no special requirements



The following table reflects the considerations for furniture and other equipment needed within the space.

Furniture & Equipment

- Casework to include:
 - Mirror
- Soap dispenser
 - Tissue holder
- Paper towel dispenser

Special Considerations

The following table reflects design considerations for the space.



Located throughout school





sample photo: does not represent LBUSD facilities

Health Clinic

Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.

Activities

- # Treating students with illnesses
- Preventative health measures
- Lie down area for students

ersons

- School nurse
- School staff
- Parents
- Students

Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.

Mechanical

Exhaust fan

Plumbing

- Sink with hot and cold water
- Stacked washer and dryer
- Ice machine



Electrical & Lighting

Duplex electrical outlets on each wall

Technology

- * Telephone/intercom/voicemail port
- * Video port and monitor
- Data ports
- Quad outlet adjacent to each data port

Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.

Joors & Windows

- Door: narrow or view panel with blinds
- Windows: operable with blinds for privacy
- Window between office and clinic

Furniture & Equipment

The following table reflects the considerations for furniture and other equipment needed within the space.

- Casework to include:
 - Countertop w/sink
 - Base and wall cabinets
 - Bookcases
 - Wardrobe cabinet
 - Locking file cabinets (min of 3)
 - Student clothing storage with drawers
 - Locking medicine cabinets
- Desk and chair
- Side chairs and table
- Cots
- Privacy curtain at cots
- Rolling carts
- Lamps
- Refrigerator
- Networked computer
- Magnetic marker board
- Tack board
- Cubical curtains with track
- Clock
- Sharps waste disposal
- Soap dispenser







Special Considerations

The following table reflects design considerations for the space.

- Auditory/visual privacyHealth clinic to include restroom, nurse's office, exam room
- * Vinyl tile flooring



Additional Office Space

Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.

Activities

- Meeting with students
- Scheduling of appointments
- Record keeping
- Preparation of materials
- scons
- School staff
- Student population
- Speech/language therapist
- Special Needs Staff
- Aides
- Teachers

Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.

Mechanical

No special requirements

Plumbing

No special requirements

Electrical & Lighting

Duplex electrical outlets on each wall

Technology

- Telephone/intercom/voicemail port
- Video port and monitor
- Data ports
- Quad outlets adjacent to each data port

Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.

Doors & Windows

- Door: view panel
- Windows: no special requirements



The following table reflects the considerations for furniture and other equipment needed within the space.

Furniture & Equipment

- Casework to include:
 - Book case
 - Locking cabinets
 - Legal size lockable lateral file cabinet
- Desk and chair
- * Table and chairs
- Networked computer
- Bulletin board
- Magnetic marker board
- * Clock

Special Considerations

The following table reflects design considerations for the space.

Special Considerations

- Bright, yet soft lighting
- Inviting to visitors
- * Carpeting





Food Services

Introduction

The Food Service Center will serve as an area where students, staff, and visitors can obtain a quick, desirable, and economical snack or meal. The center will be comfortable and cheerful and have the ability to serve as a banquet facility, meeting room, or area where dances are held.

Overview

Specific spaces associated with Food Service and corresponding illustrations and adjacencies are described herein. Additionally, descriptions of activities and persons to be accommodated as well as design considerations are listed.

The pages that follow contain a list of spaces and drawings illustrating the relationship between various program areas, and the individual spaces within the program area. Additionally, a description of the activities, persons to accommodate, and items to be considered is included.

All spaces should reference the California Uniform Retail Food Facility Law [CURFEL], excerpt from the California Health and Safety Code.



Space Requirements

The following table lists the type, quantity, and size of each space to be included in the food services area.

Cafeteria/Food Service Spaces	Suggested Spaces for Su 400 Students			Suggester 550 S		Suggested Spaces for 700 Students			Suggested Spaces for 850 Students				Suggested Spaces for 1,000 Students							
	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total
Kitchen, warming/serving only																				
Preparation Area																				
Serving Area																				
Dry Food Storage																				
Cooler/Freezer		1	1,500	1,500		1	2,000	2,000		1	2,000	2,000		1	2,500	2,500		1	2,500	2,500
Ware Washing]						
Kitchen Mgr Office																				
Restroom																				
Lockers																				
Multipurpose Room (with dividers)*		1	2,000	2,000		1	2,000	2,000		1	2,000	2,000		1	2,500	2,500		1	2,500	2,500
Table & Chair Storage		1	200	200		1	200	200		1	200	200		1	250	250		1	250	250
Stage Area		1	600	600		1	600	600		1	600	600		1	600	600		1	600	600
Auditorium Seating						1	1,500	1,500		1	1,500	1,500		1	1,500	1,500		1	1,500	1,500
Exterior Patio/Covered Eating Area		1	2,000	Outside		1	2,000	Outside		1	2,000	Outside		1	2,000	Outside		1	2,000	Outside
Outdoor Athletic Equipment Storage		1	500	500		1	750	750		1	750	750		1	750	750		1	750	750
Food Service Sub-Total	0			4,800	0			7,050	0			7,050	0			8,100	0			8,100

^{*} Suggest a layout which there is divider wall between the auditorium and multipurpose room





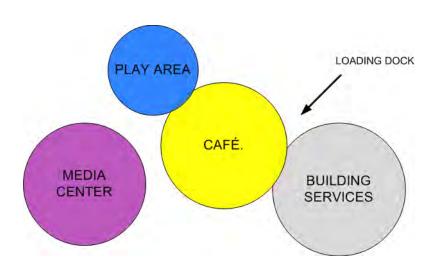
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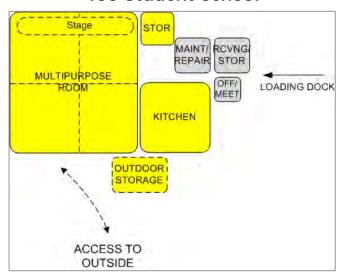


Spatial Relationship

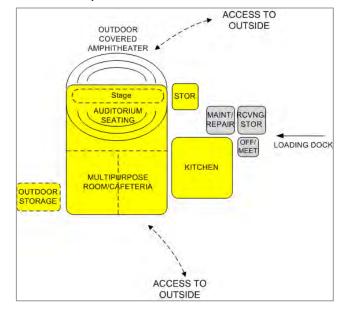
The Food Service Area should be adjacent to the Custodial & Maintenance Area and the Student Dining Area. It should also have easy access to the loading dock.



400 Student School



1,000 Student School







STANDARDS FOR TYPICAL OFFICES See Program Area Descriptions for other items

See Program Area Descriptions for other	items
FURNITURE/EQUIPMENT	QTY
Desk with return	1
Desk chair	1
Credenza in rooms > 200SF	1
Guest chairs, rooms < 150SF	2
Guest chairs, rooms 155-200SF	4
Conf chairs, rooms over 200SF	4
Conf table, rooms over 200SF	1
Bookshelves	18 LF
Marker board	4 LF
Laptop computer	1
Printer	1
File cabinet, 4 drawer	1 to 2
Bulletin board	4 LF
Clock	1
Clock	1

MECHANICAL	QTY
Air Conditioning	Yes

ELECTRICAL	QTY
Duplex outlet	each wall
Quad outlet @ ea. data port	1

PLUMBING	QTY
No special requirements	

TECHNOLOGY	QTY
Data port and/or access to wireless	1
Telephone	1
Video port	1
Intercom through phone handset	Yes



Preparation Area

Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.

Activities

Warming food

Preparing food

Persons

Food service personnel

Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.

Mechanical

- 65 Degrees year round temperature
- MUA unit capable of heating and cooling [evap or A/C]
- Mechanical [cable operated]gas shut-off valve for hood fire suppression system
- Surface mounted gas manifold under hood for cooking equipment gas supply

Plumbing

Multiple sinks

- Waste disposal
- Trough drain at cook line
- Floor sinks and drains
- Garbage disposals & pre-rinse

Electrical & Lighting

- Duplex electrical outlets on each wall
- Other electric based on equipment requirements

Technology

Data ports





Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.

Doors & Windows

- Door: view panel
- Windows: none
- Security system
- Double doors to storage
- Double doors to Loading/Receiving
- Double doors to Serving area

Furniture & Equipment

The following table reflects the considerations for furniture and other equipment needed within the space.



Other special equipment needs for food preparation

Special Considerations

The following table reflects design considerations for the space.

- Quarry tile flooring per District standards
- Non slip flooring
- Locate near dock and kitchen
- Meet Department of Health standards
- Washable ceilings, walls



Serving Area

Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.

Activities

- Serving food
- Holding prepared food

Persons

Food service personnel

Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.

Mechanical

65 Degrees year round temperature

Plumbing

No special requirements

Electrical & Lighting

- Duplex electrical outlets on each wall, maximum 12' apart
- Cord drop for all holding and serving equipment

Technology

- Data ports
- Single lane POS system

Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.

- Door: view panel
- Windows: none
- Security system



The following table reflects the considerations for furniture and other equipment needed within the space.

Furniture & Equipment

- Point of sale cash register
- Other special equipment needs for food serving
- Owner-furnished/contractorinstalled serving equipment

Special Considerations

The following table reflects design considerations for the space.

Special

- Quarry tile flooring
- Locate near dock and kitchen
- Special opening to enable multiple serving areas for community use



Dry Food Storage

Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.

Activities

Storage for dry food and paper

Persons

Food service personnel

Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.

Mechanical

65 Degrees year round temperature

Plumbing

No special requirements

Electrical & Lighting

Duplex electrical outlets on each wall

Technology

No special requirements

Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.

- Door: view panel
- Windows: none
- Security system



The following table reflects the considerations for furniture and other equipment needed within the space.

Furniture & Equipment

- Rust resistant 24" deep shelving and dunnage racks
- Other special equipment needs for food storage
- Shelving to maximize storage

Special Considerations

The following table reflects design considerations for the space.

- Concrete flooring
- Locate near dock and kitchen



Cooler & Freezer

Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.

Activities

Storage

Persons

Food service personnel

Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.

Mechanical

- See manufacturer's specifications
- Separate condensing units for each box [cooler and freezer]

Plumbing

No special requirements

Electrical & Lighting

- Duplex electrical outlets on each wall
- Coordinate power requirements with equipment manufacturer
- # Fluorescent lighting

Technology

Radio controlled temperature monitoring

Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.

- * Door: no special requirements
- Windows: none



The following table reflects the considerations for furniture and other equipment needed within the space.

Furniture & Equipment

- Walk-in freezer and cooler
- Rust-proof shelving, 18' deep with additional 24" deep dunnage racks in freezer and refrigerator

Special Considerations

The following table reflects design considerations for the space.

Special Considerations

No special requirements





Ware Washing

Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.

Activities

- Washing of preparation equipment
- Sanitizing

Persons

Food service personnel

Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.

Mechanical

No special requirements

Plumbing

- Large sinks and sprayers
- Garbage disposal
- Floor drain

Electrical & Lighting

- Duplex electrical outlets on each wall
- Coordinate power requirements with equipment manufacturer
- # Fluorescent lighting

Technology

No special requirements

Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.

- * Door: no special requirements
- Windows: none



The following table reflects the considerations for furniture and other equipment needed within the space.



Rust-proof shelving

Special Considerations

The following table reflects design considerations for the space.



Tile flooring





Kitchen Manager Office

Activities and Persons

The following tables reflect the anticipated activities to be conducted in the space and the persons making use of the space.

Activities

- Scheduling
- Staff evaluations/discipline/small meetings
- Customer Service
- Ordering food

Persons

Food service manager

Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.

Mechanical

No special requirements

Plumbing

No special requirements



Duplex electrical outlets on each wall



- Telephone/intercom/voicemail port
- Video port and monitor
- Data ports
- Quad outlet adjacent to each data port

Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.

- Door: large view panel
- Windows: operable with ½ glass looking into serving area and food prep area





The following table reflects the considerations for furniture and other equipment needed within the space.



- Desk and chair
- File cabinet
- Printer

Special Considerations

The following table reflects design considerations for the space.

Special Considerations

No special requirements



Restroom

Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.

Personal hygiene

Persons

Food service staff

Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.

Mechanical

Exhaust fan

Plumbing

Sink with hot and cold water

Toilet

Electrical & Lighting

Duplex electrical lighting on each wall

Technology

No special requirements

Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.

Doors & Windows

Door: no view panel

Windows: none



The following table reflects the considerations for furniture and other equipment needed within the space.

Furniture & Equipment

Casework to include:

· Cabinet with mirrors

Special Considerations

The following table reflects design considerations for the space.

Special Considerations

Adjacent to locker room





Locker Room

Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.

Activities

Food service personnel storage

Persons

Food service personnel

Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.

Mechanical

Ventilation

Plumbing

No special requirements

Electrical & Lighting

Duplex electrical outlets on each wall

Technology

- Telephone/intercom/voicemail port
- Video port and monitor

Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.

- Door: no special requirements
- Windows: no special requirements



The following table reflects the considerations for furniture and other equipment needed within the space.



- Lockers with sloped tops
- Bench
- Locking storage cabinet

Special Considerations

The following table reflects design considerations for the space.

Special Considerations

Adjacent to food service restroom



Multipurpose Room

Activities and Persons

The following tables reflect the anticipated activities to be conducted in the space and the persons making use of the space.

Activities

- Student dining
- School and community program, meetings, and activities.
- Performances

Persons

- Staff members
- Community primarily after school hours

Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.

Mechanical

No special requirements

Plumbing

Drinking fountain

lectrical & ighting

- Duplex electrical outlets on each wall
- Banked switching to allow for adjustable lighting levels
- Special electrical outlets for refrigeration units

echnology

- Telephone/intercom/voicemail port
- Video port and monitor
- Data ports
- Quad outlet adjacent to each data port
- Audio enhancement system
- Sound system with portable or wireless microphones

Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.

- Door: double doors with access to outside courtyard/dining area
- Windows: operable, with blinds to allow controlled natural lighting,



The following table reflects the considerations for furniture and other equipment needed within the space.

Furniture & Equipment

- * Round, fold up tables
- Stackable, free standing chairs and chair dolly
- CD/DVD player
- Equipment rack in control closet
- LCD projector
- Flat screen televisions mounted to wall

Special Considerations

The following table reflects design considerations for the space.

- Good sight lines to all areas of the room for supervision
- Acoustic sound panels
- Control closet in multipurpose room with light and sound control box
- Vinyl tile flooring with various colors to show table placement



<u>Stage</u>

Activities and Persons

The following tables reflect the anticipated activities to be conducted in the space and the persons making use of the space.

Activities

- Student and visitor presentations,
- School and community programs, meetings, and activities.
- Performances

ersons

- Students
- Staff members
- Community primarily after school hours

Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.

Mechanical

Air conditioning

Plumbing

No special requirements

Electrical & Lighting

- Duplex electrical outlets on each wall
- Adjustable theater lights

Technology

- Data port
- Quad outlet adjacent to each data port
- Sound system with portable or wireless microphones

Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.

- Door: single door
- Windows: none



The following table reflects the considerations for furniture and other equipment needed within the space.

Furniture & Equipment

- Stage curtain
- Backdrop curtain
- Appropriate/balanced proscenium arch for special acoustics
- Risers/steps as part of front of stage

Special Considerations

The following table reflects design considerations for the space.

- Raised above Multipurpose Room floor
- Barrier free access from Multipurpose Room
- Vinyl tile flooring



Table & Chair Storage

Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.

* Storage

Bersons # Cusi

Custodial/Maintenance staff

Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.

Mechanical

No special requirements

Plumbing

No special requirements

Electrical & Lighting

Duplex electrical outlets on each wall

Technology

No special requirements

Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.

Doors & Windows

Door: solid

Windows: none



The following table reflects the considerations for furniture and other equipment needed within the space.



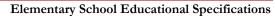
Table and chair racks

Special Considerations

The following table reflects design considerations for the space.

Special Considerations

No special requirements







Overview

The pages that follow contain a list of spaces and drawings illustrating the relationship between various Custodial areas. Additionally, a description of the service, persons to accommodate, and items to be considered is included.

sample photo: does not represent LBUSD facilities

Custodial / Maintenance

Introduction

Custodial may provide space for receiving/storage, maintenance/repair, and office/meeting space. In addition, maintenance should be able to access major electrical, plumbing, and mechanical fixtures without having to go into the classrooms.





Space Requirements Table

The following table lists the type, quantity, and size of each space to be included in this program area.

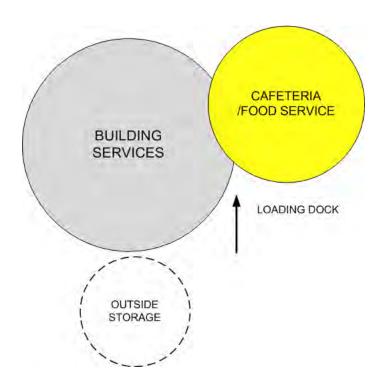
Custodial Spaces		Sugested 400 S	d Spaces			Suggeste 550 S	d Space Students			Suggeste 700 S	d Space Students		Suggested Spaces for 850 Students			Suggested Spaces for 1,000 Students				
	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total	TS	Quantity	SF	Total
Receiving/Storage		1	500	500		1	500	500		1	500	500		1	700	700		1	700	700
Maintenance/Repair Area		1	500	500		1	500	500		1	500	500		1	500	500		1	500	500
Office/Planning/Meeting Area		1	200	200		1	200	200		1	200	200		1	200	200		1	200	200
Custodial Hopper Room [throughout school]		2	100	200		4	100	400		6	100	600		8	100	800		10	100	1,000
Mechanical Rooms & Restrooms	Se	e Builidng Se	rvice in S	um Chart	Se	e Builidng Se	rvice in S	um Chart	Se	e Builidng Se	rvice in S	ium Chart	See E	uilidng Servic	e in Sum	Chart	See E	Builidng Servic	ce in Sum	Chart
Loading Dock			outside				outside				outside				outside				outside	
Custodial Sub-Total	0			1,400	0			1,600	0			1,800	0			2,200	0			2,400

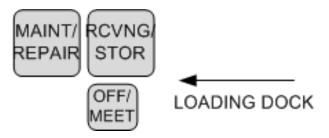




Spatial Relationships

The Custodial area should be located next to receiving/ storage as well as next to the Food Services areas.









STANDARDS FOR TYPICAL OFFICES See Program Area Descriptions for other items

FURNITURE/EQUIPMENT Desk with return	QTY
	1
Desk chair	1
Credenza in rooms > 200SF	1
Guest chairs, rooms < 150SF	2
Guest chairs, rooms 155-200SF	4
Conf chairs, rooms over 200SF	4
Conf table, rooms over 200SF	1
Bookshelves	18 LF
Marker board	4 LF
Laptop computer	1
Printer	1
File cabinet, 4 drawer	1 to 2
Bulletin board	4 LF
Clock	1

MECHANICAL	QTY
Air Conditioning	Yes

ELECTRICAL	QTY
Duplex outlet	each wall
Quad outlet @ ea. data port	1

PLUMBING	QTY
No special requirements	

TECHNOLOGY	QTY
Data port and/or access to wireless	1
Telephone	1
Video port	1
Intercom through phone handset	Yes



Receiving/Storage Area

Activities and Persons

The following list reflects the anticipated activities to be conducted in the Loading/Receiving area and the persons making use of the space.

Activities

- Delivery area for bulk commodities, supplies, materials, and equipment
- Loading and unloading
- Storage

Persons

- Custodial and maintenance personnel
- Food service personnel

Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.

Mechanical

No special requirements

Plumbing

No special requirements

Electrical & Lighting

🌲 Wiring for roll up door

Technology

No special requirements

Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.

- Door: electric roll-up door to loading dock
- Double doors with removable mullions to hallway
- Windows: no special requirements



The following table reflects the considerations for furniture and other equipment needed within the space.

Furniture & Equipment

- Step ladders
- Dollies
- Lifts
- Shelves
- Built-in cabinets
- Large mop sink

Special Considerations

The following table reflects design considerations for the space.

- Located adjacent to the Custodial and maintenance area and Food Service area
- Proper lighting and ventilation



Maintenance/ Repair Area

Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.

Activities

General maintenance

Painting

- Repair of small electrical items, equipment, furniture, doors, blinds, fixtures, etc
- Preventative maintenance

Persons

Custodial/ maintenance personnel

Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.

Mechanical

Exhaust fan

HVAC

Plumbing

- Sink with hot and cold water
- Hot and cold water hose bibb
- Floor drains

Electrical & Lighting

- Duplex electrical outlets on each wall 12' apart
- 20 amp outlets in workroom

Fechnology

- * Telephone/intercom/voicemail port
- Video port and monitor
- Data ports
- Quad outlet adjacent to each data port

Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.

- Door: for moving large equipment
- Windows: no special requirements



The following table reflects the considerations for furniture and other equipment needed within the space.

- Work bench with built-in electrical outlets
- Peg boards for bench work
- Locking shelving for tools
- Compressor
- Eye wash
- Soap dispenser
- Paper towel holder
- Built in vise
- Hazmat storage cabinet

Special Considerations

The following table reflects design considerations for the space.

- Soundproofing between workroom and instruction areas
- Adjacent to loading dock



Office/Planning & Meeting Area

Activities and Persons

The following tables reflect the anticipated activities to be conducted in the space and the persons making use of the space.

Activities

- Telephone calls
- Paperwork
- Scheduling
- Training

Persons

Maintenance and Custodial personnel

Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.

Mechanical

No special requirements

Plumbing

No special requirements

Electrical & Lighting

- Duplex electrical outlets on each wall
- Adequate lighting

echnology

- Telephone/intercom/voicemail port
- Video port and monitor
- Data ports
- Quad outlet adjacent to each data port
- HVAC controls
- Data ports or e-mail (hand held) access and charging ports in custodial office

Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.

- Door: view panel
- Windows: window with a view of workroom and loading dock



The following table reflects the considerations for furniture and other equipment needed within the space.

- Casework to include:
 - Filing cabinet
 - Bookcase
- Furniture & Equipment
 - Tack board
 - Desk and chair
 - Ergonomic task chairs
 - Networked computer
 - Printer

Special Considerations

The following table reflects design considerations for the space.

Special Considerations

No special requirements



Loading Area

Activities and Persons

The following list reflects the anticipated activities to be conducted in the Loading/Receiving area and the persons making use of the space.

Activities

- Delivery area for bulk commodities, supplies, materials, and equipment
- Loading and unloading

Persons

- Custodial and maintenance personnel
- Food service personnel

Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical & Lighting, and Technology.

Mechanical

No special requirements

Plumbing

No special requirements

Electrical & Lighting

🏶 Wiring for roll up door

Technology

No special requirements

Doors & Windows

The following table reflects the considerations for the doors and windows to be used in the space.

- Door: electric roll-up door to loading dock
- Double doors with removable mullions to hallway
- Windows: no special requirements



The following table reflects the considerations for furniture and other equipment needed within the space.

Furniture & Equipment

- Step ladders
- Dollies
- Lifts

Special Considerations

The following table reflects design considerations for the space.

- Located adjacent to the Custodial and maintenance area and Food Service area
- Proper lighting and ventilation
- Locked drop area with security alarm

