## 702 KAR 4:170. FACILITY PROGRAMMING

## AND CONSTRUCTION CRITERIA PLANNING GUIDE

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## INTRODUCTION

Administrative regulation 702 KAR 4:170, Facility Programming and Construction Criteria, enhances the Kentucky Department of Education's ability to provide the local school district with a more complete guide to the physical learning environment. It also guarantees a level of uniformity through the requirements of minimum standards for all instructional spaces across the state. In order to maintain the current minimum standards for construction and provide the desirable improvements, this administrative regulation incorporates by reference the "Facility Programming and Construction Criteria Planning Guide". This guide has several important features:

- Through the adoption of 702 KAR $4: 170$, required construction criteria including minimum areas for the program spaces identified in the Kentucky School Facilities Planning Manual are established.
- The new Planning Guide lists the minimum standards for each individual instructional space. This allows the characteristics of each space to be customized in order to provide the precise learning environment. Kentucky Department of Education curriculum program consultants have provided input to bring the instructional space requirements into alignment with current curriculum needs. This has resulted in the integration of computers and technology into the construction of instructional spaces.
- Architects and engineers with experience in school facility design reviewed the proposed administrative regulation to provide input on the latest industry standards. Outdated provisions were discarded. New provisions reference current construction techniques.


## DEFINITIONS

a. "Assignable Space" means the net area in square feet of the sum of all individual program spaces. This sum is approximately equal to the following percentage of the gross building area: 74\% for Elementary schools; 71\% for Middle and Junior High schools; and 68\% for High schools.
b. "ETV" means Educational Television.
c. "Equipment" means fixed or moveable furnishings required to support the instructional needs of the space.
d. "Footcandles" or "fc" means the amount of artificial illumination at 30 inches above the floor (desktop height) as measured with a standard light meter. The amounts given in the following provisions indicate the minimum average "maintained" value required throughout the entire space. For light fixtures with fluorescent or metal halide lamps, the "depreciation factor" equals: $20 \%$ for fluorescent; and $40 \%$ for metal halide.
e. "KBC" means the Kentucky Building Code.
f. "KDE" means the Kentucky Department of Education.
g. "KETS" means the Kentucky Education Technology System.
h. "LF" means Linear Feet.
i. "Minimum Unit Area" means the net area of a program space excluding walls. An exemption to the provision of the Minimum Unit Area may be granted when multiple program spaces are planned to share common Support Spaces (e.g. two or more Lecture Labs sharing common Workroom and Chemical/Equipment Storage room).
j. Minimum "Room Dimension" means the minimum clear distance between face of wall and face of wall, or face of fixed equipment.
k. "SF" means Square Feet.

1. "Student Enrollment" means the total anticipated student attendance rounded to the next highest fifty (50) or one hundred (100) students as given by the table, without interpolation of smaller increments.
m. "Technology" means the provision of the integrated communications network as defined by the Kentucky Education Technology System.
n. "Unassignable Space" means the amount of area in square feet remaining when the "assignable space" is subtracted from the total gross area of the building. This amount is approximately equal to the following percentage of the gross building area: 26\% for Elementary schools; 29\% for Middle and Junior High schools; and 32\% for High schools. (Refer to the School Facilities Manual 702 KAR 1:001).
o. "Units/Student Ratio" means the number of program space units (see Minimum Unit Area) to be provided for each quantity of students indicated. For standard classrooms the ratio is expressed as one classroom unit for the quantity indicated based on the total school enrollment. For all other instructional spaces the ratio is expressed as one unit for the quantity indicated, based on the total student enrollment in that program (e.g. Science, Art, etc.).

## PROGRAMMING:

(a) SITE PLAN: Efficient use of school property, vehicular and pedestrian circulation and student safety shall be accommodated through conformance with the following:

1. Separate the bus loading/unloading driveway from all other vehicular circulation on the site. Prohibit access to the bus loading/unloading driveway through the use of signage marking "Busses Only" entry and "No Entry" at the appropriate ends of the bus loop.
2. A curb cut with ramp for the physically disabled shall be provided at the appropriate location to serve the parking spaces for the disabled, and at the bus loading/unloading area.
3. Provide positive drainage away from building and eliminate all conditions which would produce standing water through the use of area drains and subsurface drainage systems.
4. Locate site utilities, and physical plant components such as sewage treatment plants and transformer pads, to avoid conflict with student and vehicular traffic, future growth of play areas, driveways, building expansions, etc.
5. Electrical service entrance lines to school buildings shall be remotely located from student traffic lanes and areas planned for outside activities.
6. Provide adequate site lighting for night-time hours: around building at each exterior door for security; and at all driveway intersections and bus loop for safe emergency vehicle access.
7. For buildings utilizing LP gas, the storage tanks shall be enclosed with a chain link fence.
8. A sewage treatment plant located on the school site shall be enclosed with a fence and provided with a water supply line with frostproof hydrant.
9. At storm sewer outlets and headwalls, utilizing pipe eight (8) inches in diameter or larger, provide steel grate guards to prevent obstructions. Rip-rap is required to prevent erosion.
10. Provide sub-surface drainage piping to divert roof run-off from building downspouts away from or under paved pedestrian or vehicular traffic areas.
11. Locate school facilities at least two hundred (200) feet away from any source of air or water contamination and high-pressure gas lines.
12. A geo-technical survey is required of all sites of new school facilities and of all school facility additions greater than two classrooms.
13. Each school facility site shall be provided with an outdoor physical education area equivalent in size and graded similar to a soccer field.
14. All playground equipment provided on school sites shall conform to the provisions of the "Handbook for Public Playground Safety", as published by the U.S. Consumers Products Safety Commission. This handbook is hereby adopted and incorporated by reference and may be copied (subject to copyright restrictions) and reviewed at the Division of Facilities Management, Department of Education, 15th Floor, Capital Plaza Tower, Frankfort, Kentucky 40601. The supplier/installer shall provide the Owner with a certificate of compliance with these standards.
15. The finished floor elevation of any portion of new building or addition must a minimum of twelve (12) inches above the 100-year flood plain.
(b.) ASSIGNABLE SPACE:
16. STANDARD CLASSROOM UNITS shall be provided in accordance with the following table:

STANDARD CLASSROOM UNITS

| Grade Level | Minimum Unit Area <br> (Square Feet) | Unit/Student Ratio |
| :---: | :---: | :---: |
| Elementary | 800 | $1 / 25$ |
| Middle/Junior High | 750 | $1 / 25$ <br> for $75 \%$ of school enrollment |
| High | 750 |  |

a.1.1 Location: Shielded from noise-producing activities or functions.
a.1.2 Support Spaces: Internal subdivisions are not required.
a.1.3 The Minimum Standards as given by the following table shall be provided in each standard classroom unit:

MINIMUM CLASSROOM STANDARDS

| Standard | Minimum |
| :---: | :---: |
| Student Capacity | Varies |
| Ceiling Height | 8'-8" |
| Room Dimension | 22'-0" Clear ${ }^{\text {b }}$ |

Notes:
(a) Where clusters of three or more open classrooms are to be utilized for a "family concept" instructional area, provide space for a corridor with walls to meet the requirements of means of egress
(b) The minimum clear dimension shall not include casework or other fixed equipment
(c) Storage space for teaching materials and records may be provided in casework included within the classroom area. Where storage closets are provided, the area of the closet shall not be included within the minimum unit area of the classroom.
b.2. RESOURCE CLASSROOM UNITS shall be provided in accordance with the following table:

RESOURCE CLASSROOM UNITS

| Grade Level | Minimum Unit Area <br> (Square Feet) | Unit/Student Ratio |
| :---: | :---: | :---: |
| Elementary | 400 | Per program |
| Middle/Junior High | 375 | Per program |
| High | 375 | Per program |

b.2.1) Location: Shielded from noise-producing activities or functions.
b.2.2) Support Spaces: Internal subdivisions are not required.
b.2.3) The Minimum Standards as given by the following table shall be provided in each resource classroom unit:

MINIMUM RESOURCE CLASSROOM STANDARDS

| Standard | Minimum |
| :---: | :---: |
| Student Capacity | Varies (Maximum = 12) |
| Ceiling Height | 8'-8" |
| Room Dimension | 11'-0" |
| Artificial Illumination | 50 footcandles |
| Chalkboard/Markerboard | 24 square feet |
| Tackboard | 24 square feet |
| Finishes | Low maintenance |
| Storage | Storage space for teaching materials and records |
| Technology | Voice, data and video outlets at (1) teacher station; Data outlet at each student station per KETS Standards; Power outlets at each computer and video outlet |
| Equipment | -- |
| Utilities | -- |
| Special Features | -- |
| Notes: <br> (a) Where two Resource Rooms are divided by a folding partition, each room must have its own door to the corridor, separate light switching and control of heating and air-conditioning. |  |

b.3. PRE-SCHOOL CLASSROOM UNITS shall be provided in accordance with the following table:

PRE-SCHOOL CLASSROOM UNITS

| Grade Level | Minimum Unit Area <br> (Square Feet) | Units/Student Ratio |
| :---: | :---: | :---: |
| Pre-school | 825 | $1 / 20$ |

b.3.1) Location: On the ground floor shielded from noise-producing activities or functions. Provide access to a fenced play area (See b.3.3 below). At some school facilities, direct access from the Preschool Classrooms to the Family Resources Area may be required.
b.3.2) Support Spaces: The Minimum Pre-school Classroom Unit Area shall be internally subdivided to provide the following support spaces:

PRE-SCHOOL CLASSROOM SUPPORT SPACES

| Room Name | Minimum Area <br> (Square Feet) | Special Features |
| :---: | :---: | :---: |
| Wet Area | 15 | Separate vanity/sink with bubbler or cup-filler <br> within the classroom space |
| Toilet Room | 25 | One uni-sex toilet room with door connected <br> directly to classroom; Operate toilet room light <br> fixture from switch with pilot light in classroom |
| Storage | 50 | Lockable storage for large play equipment |

b.3.3) The Minimum Standards as given by the following table shall be provided in each preschool classroom unit:

## MINIMUM PRE-SCHOOL CLASSROOM STANDARDS

| Standard | Minimum |
| :---: | :---: |
| Student Capacity | 20 |
| Ceiling Height | 8'-8" |
| Room Dimension | 22'-0" |
| Artificial Illumination | 75 footcandles |
| Chalkboard/Markerboard | 48 square feet |
| Tackboard | 48 square feet |
| Finishes | Low maintenance; water-resistant flooring at wet area \& toilet room |
| Storage | 15 square feet for children's clothing and personal items; storage space for teaching materials and records |
| Technology | Voice, data and video outlets at (1) teacher station; Data outlet at each student station per KETS Standards; Power outlets at each computer and video outlet |
| Equipment | -- |
| Utilities | -- |
| Special Features | Direct access to a minimum 1500 square feet outdoor play area, $1 / 3$ paved, $2 / 3$ turf, with 48 -inch high fence and (two) 36 -inch wide latchable gates |

b.4. FMD CLASSROOM UNITS shall be provided in accordance with the following table:

FMD CLASSROOM UNITS

| Grade Level | Minimum Unit Area <br> (square Feet) | Unit/Student Ratio |
| :---: | :---: | :---: |
| FMD | 825 | Varies per program |

b.4.1) Location: Shielded from noise-producing areas.
b.4.2) Support Spaces: The Minimum FMD Classroom Unit Area shall be internally subdivided to provide the following support spaces:

FMD CLASSROOM SUPPORT SPACES

| Grade <br> Level | Support <br> Space <br> Room <br> Name | Minimum <br> Area <br> (square <br> Feet) | Special Features |
| :---: | :---: | :---: | :---: |
| All | Handicapped <br> Toilet Room | 80 | Private restroom with a handicapped water <br> closet, lavatory, roll-in shower and changing <br> table |
| High School | Kitchenette | 20 (within <br> Classroom) | Provide a Kitchenette, including a sink, a <br> refrigerator and microwave oven, for food <br> preparation training |

b.4.3) The Minimum Standards as given by the following table shall be provided in each FMD classroom unit:

## MINIMUM FMD CLASSROOM STANDARDS

| Standard | Minimum |
| :---: | :---: |
| Student Capacity | Varies per program |
| Ceiling Height | 8'-8" |
| Room Dimension | 22'-0" |
| Artificial Illumination footcandles square feet |  |

b.5. SCIENCE CLASSROOM and LECTURE LAB UNITS shall be provided in accordance with the following table:

## SCIENCE CLASSROOM and LECTURE LAB UNITS

| Grade Level | Minimum Unit Area <br> (Square Feet) | Units/Student Ratio |
| :---: | :---: | :---: |
| Grades 5 \& 6 Science <br> Classrooms | 800 | No requirement |
| Middle, Junior High \& High <br> School Science Classrooms | 1000 | $1 / 150$ |
| High School Lecture Lab | 1625 | $1 / 150$ or one per each six periods <br> of Chemistry and Physics |

b.5.1) Location: Shielded from noise-producing activities or functions.
b.5.2) Support Spaces: The Minimum Science Classroom Unit Area shall be internally subdivided to provide the following support spaces:

## SCIENCE CLASSROOM/LECTURE LAB SUPPORT SPACES

| Science Classroom Area | Support Space Room Name | Minimum <br> Area <br> (Square Feet) | Special Features |
| :---: | :---: | :---: | :---: |
| Science Classrooms 1000 SF and greater | Science Storage Room | 100 | For general science storage only; Chemical storage is prohibited here and in science classroom; |
| 1625 SF <br> Science <br> Lecture <br> Labs | Workroom | 200 | Workroom and Chemical/Equipment Storage Room shall be ventilated per National Fire Protection Association-NFPA 30; Provide outswinging doors with panic hardware from chemical storage and workrooms |
|  | Chem/Equip Storage | 100 |  |

b.5.3) The Minimum Standards as given by the following table shall be provided in each science classroom unit:

MINIMUM SCIENCE CLASSROOM \& LECTURE LAB STANDARDS

| Standard | Minimum |  |  |
| :---: | :---: | :---: | :---: |
|  | Grades 5 \& 6 Science | Grades 7, 8, 9-12 <br> Science Classroom | Lecture Lab |
| Student Capacity | 28 |  | 28 in lecture seating; 28 at lab stations |
| Ceiling Height | 8'-8" |  | 8'-8" |
| Room Dimension | 22'-0" |  | 22'-0" |
| Artificial Illumination | 50 footcandles |  | 75 fc |
| Chalkboard/ Markerboard | 48 square feet |  | 48 sf |
| Tackboard | 48 square feet |  | 48 sf |
| Finishes | Low maintenance | Low maintenance; Chemicalresistant where applicable | Chemical-resistant where applicable |
| Storage | Storage space for teaching materials and records | Storage space for teaching materials and records; See b.5.2 | Storage space for teaching materials and records; See b.5.2 |
| Technology | Voice, data and video outlets at (1) teacher station; Data outlet at each student station per KETS Standards; Power outlets at each computer and video outlet |  |  |
| Equipment | Demonstration table with Hot and Cold Water | Demonstration table with Hot and Cold Water; Casework with three (3) sinks minimum, cold water only; one additional sink with drain board \& hot/cold water | Demonstration table with Gas and Hot \& Cold Water; Fume hood; Casework with seven (7) sinks, cold water only seven (7) gas jets; one additional sink with drain board \& hot/cold water |
| Utilities | -- | Solenoid-type emergency "kill" switches on gas \& electric services to room; shut-off valve on water service to room; acid waste lines at demonstration table only (to dilution pit) | Solenoid-type emergency "kill" switches on gas \& electric services to room; shut-off valve on water service to room; acid waste lines in all casework (to dilution pit) |
| Special Features | -- | Doors swing into corridor; Seating at two-student tables; Include safety cabinet, goggles, eyewash, emergency shower | Doors swing into corridor; Include safety cabinet, goggles, eyewash, emergency shower |
| Notes: <br> (a) The Kentucky Department of Education does not endorse the use of acids or flammable chemicals by students in grade levels or science classrooms other than High School laboratories. <br> (b) Provide a floor drain with trap at each emergency shower. |  |  |  |

b.6. COMPUTER CLASSROOMS UNITS shall be provided in accordance with the following table:

STANDARD COMPUTER CLASSROOM UNITS

| Grade Level | Minimum Unit Area <br> (Square Feet) | Units/Student Ratio |
| :---: | :---: | :---: |
| Elementary | 800 | One per school |
| Middle/Junior High | 900 | $1 / 150$ |
| High | 1280 | $1 / 150$ |

b.6.1) Location: Shielded from noise-producing activities or functions.
b.6.2) Support Spaces: Internal subdivisions are not required.
b.6.3) The Minimum Standards as given by the following table shall be provided in each standard computer classroom unit:

MINIMUM COMPUTER CLASSROOM STANDARDS

| Standard | Minimum |
| :---: | :---: |
| Student Capacity | 28 Maximum |
| Ceiling Height | 8'-8" |
| Room Dimension | 22'-0" |
| Artificial Illumination | Two-level with 50 footcandles maximum; reduce veiling effects on CRT screens |
| Chalkboard/Markerboard | 48 square feet of Markerboard |
| Tackboard | 48 square feet |
| Finishes | Low maintenance |
| Storage | Storage space for teaching materials and records |
| Technology | Voice, data and video outlets at (1) teacher station; Data outlet at each student station per KETS Standards; Power outlets at each computer and video outlet |
| Equipment | -- |
| Utilities | Provide surge protection at circuit-breaker panel in each classroom for in-coming power; all electrical connections for computers shall be above countertop height, either along the wall, or by means of a floor pedestal |
| Special Features | -- |

b.7. ART CLASSROOM UNITS shall be provided in accordance with the following table:

## STANDARD ART CLASSROOM UNITS

| Grade Level | Minimum Unit Area <br> (Square Feet) | Units/Student Ratio |
| :---: | :---: | :---: |
| Elementary | 800 | One per school |
| Middle/Junior High | 1200 | $1 / 150$ |
| High | 1200 | $1 / 150$ |

b.7.1) Location: On ground floor at north exterior wall for direct access to a future art patio.
b.7.2) Support Spaces: The Minimum Art Classroom Unit Area shall be internally subdivided to provide the following support spaces:

## ART CLASSROOM SUPPORT SPACES

| Grade <br> Level | Support <br> Space <br> Room <br> Name | Minimum <br> Area <br> (Square <br> Feet) | Special Features |
| :---: | :---: | :---: | :---: |
| Middle, <br>  <br> High School | Art Office/ <br> Storage <br> Room | 200 | Lockable storage for supplies and projects |

b.7.3) The Minimum Standards as given by the following table shall be provided in each standard art classroom unit:

## MINIMUM ART CLASSROOM STANDARDS

| Standard | Minimum |  |
| :---: | :---: | :---: |
|  | Elementary | Middle/High |
| Student Capacity |  |  |
| Ceiling Height | 8'-8" | 8'-8" |$|$| Room Dimension | 22'-0" |
| :---: | :---: |

b.8. MUSIC CLASSROOM UNITS shall be provided in accordance with the following table:

STANDARD MUSIC CLASSROOM UNITS

| Grade Level | Minimum Unit Area <br> (Square Feet) | Units/Student Ratio |
| :---: | :---: | :---: |
| Elementary Music | 800 | One per school |
| Chorus Room <br> Middle/Junior High/High | 900 | Per program |
| Band/Vocal Room | 2500 | Per program |
| Band Room - High | 2500 | Per program |

b.8.1) Location:

* All music rooms shall be located remotely from other classrooms to minimize sound transmission.
* High school band rooms shall be located on the ground floor, remote from other classrooms so as to provide access directly to the exterior through a door no less than fortyfour (44) inches wide.
b.8.2) Support Spaces: The Minimum Music Classroom Unit Area shall be internally subdivided to provide the following support spaces:


## MUSIC CLASSROOM SUPPORT SPACES

| Grade | Support <br> Level <br> Room <br> Name | Minimum <br> Area <br> (Square <br> Feet) | Special Features |
| :---: | :---: | :---: | :---: |
| Chorus <br> Room | Robe <br> Storage | 100 | Provide appropriate hanging storage |
| Band/Vocal <br> and <br> High School <br> Band Rooms | Instructor <br> Office | 200 | Locate at entry to band room with view window; <br> provide a small storage area for a sheet music library |
|  | Instrument <br> Storage | 300 | Provide a long room with full length shelving, an <br> entry door at one end and an exit door at the other <br> (each door no less than forty-four (44) inches wide) |
|  | Band <br> Uniform <br> Storage | 200 | Provide appropriate hanging storage |
|  |  |  |  |

b.8.3) The Minimum Standards as given by the following table shall be provided in each music room unit:

## MINIMUM MUSIC ROOM STANDARDS

| Standard | Minimum |  |  |
| :---: | :---: | :---: | :---: |
|  | Elementary Music | Middle/High Chorus Room | Band/Vocal \& Band Room |
| Ceiling Height | 8'-8" | 10'-0" | 12'-0" |
| Room Dimension | 22'-0" | 22'-0" | 22'-0" |
| Artificial Illumination | 50 footcandles | 75 <br> footcandles | 75 <br> footcandles |
| Chalkboard/Markerboard | 48 square feet | 48 square feet | 48 square feet |
| Tackboard | 48 square feet | 48 square feet | 48 square feet |
| Finishes | Low maintenance, acoustically absorbent | Low <br> maintenance, acoustically absorbent | Low <br> maintenance, acoustically absorbent |
| Storage | Storage space for teaching materials and records | Storage space for teaching materials and records | See b.8.2 |
| Technology | Voice, data and video outlets at (1) teacher station; Data outlet at each student station per KETS Standards; Power outlets at each computer and video outlet |  |  |
| Equipment | -- | -- | -- |
| Utilities | -- | -- | Provide an airconditioning system for the band room for summer use |
| Special Features | Minimum STCrating of 55 between this space and the adjacent spaces; Doors shall have acoustical gaskets and door bottoms and have a minimum STCrating of 34 | Minimum STC-rating of 55 between itself and the adjacent spaces; Doors shall have acoustical gaskets, door bottoms and have a minimum STCrating of 34; Risers in the Chorus or Band Rooms should not be of permanent construction (Portable risers are acceptable); Practice rooms, if provided shall be constructed of metal studs and gypsum board for easy removal in the future |  |

b.9. LIBRARY/MEDIA CENTERS shall be provided in accordance with the following table:

LIBRARY/MEDIA CENTER UNITS

| Total Student Enrollment | Library/Media Center Unit Area <br> (Square Feet) |
| :---: | :---: |
| 300 | 2,100 |
| 400 | 2,600 |
| 500 | 3,125 |
| 600 | 3,650 |
| 700 | 4,175 |
| 800 | 4,700 |
| 900 | 5,225 |
| 1,000 | 5,720 |
| 1,100 | 6,275 |
| 1,200 | 6,800 |
| 1,300 | 7,325 |
| 1,400 | 7,850 |
| 1,500 | 8,375 |

b.9.1) Location: The Library/Media Center shall be centrally located to access all grade levels of the building.
b.9.2) Support Spaces: The Minimum Library/Media Center Unit Area shall be internally subdivided to provide the following support spaces:

LIBRARY/MEDIA CENTER SUPPORT SPACES

| Grade <br> Level | Support <br> Space <br> Room <br> Name | Minimum <br> Area <br> (Square <br> Feet) | Special Features |
| :---: | :---: | :---: | :---: |
| Elementary | Workroom | 200 | Base cabinet with sink |
|  | Audio- <br> Visual <br> Storage | 200 | Entrance to the Audio-visual Storage Room <br> should be controlled by the Librarian; Exit door <br> to a corridor should have "exit only" hardware |
|  | Office/ <br> Workroom | 250 | Base cabinet with sink |

b.9.3) The Minimum Standards as given by the following table shall be provided in each standard Library/Media Center:

## MINIMUM LIBRARY/MEDIA CENTER STANDARDS

| Standard | Minimum |
| :---: | :---: |
| Student Capacity | At least 70\% of the Minimum Library/Media Center Unit Area shall be dedicated to Reading Room and general stack area; The Library layout shall include tables and chairs to seat no less than 60 students; Provide space for one class in the main Library seating area to view audio-visual presentations, with a projection screen, electrical outlets and the means to darken the space for slides, films or videos |
| Ceiling Height | 10'-0" |
| Room Dimension | 22'-0" |
| Artificial Illumination | 75 footcandles <br> Provide switching for all light fixtures from the circulation desk, except for a switch at the entry door to operate fixtures lighting the path to the desk, and providing a minimum of 20 footcandles of light |
| Chalkboard/Markerboard | N.A. |
| Tackboard | 48 square feet |
| Finishes | Low maintenance |
| Storage | See b.9.2 |
| Technology | Voice, data and video outlets at minimum two locations in Reading Room/Stack Area (one of these at the computerized card catalogue) and one location in Office/Workroom; Voice and data outlets at circulation desk; Data outlets at each student station; Power outlets at each computer and video outlet |
| Equipment | Provide an area in the Library for carrels and/or individual instruction equipment: computers, headsets, etc. |
| Utilities | Provide electrical outlets along the perimeter walls with pigtail to base of shelving units |
| Notes: <br> (a) The main student entrance to the Library/Media Center shall be through a door opening with a pair of doors minimum 3'-0" wide per leaf. <br> (b) The Library layout should allow for maximum visual control by the librarian from the circulation desk/work area. <br> (c) See PART 3.c WINDOWS, for the requirements for window openings in a Library/Media Center. <br> (d) Provide an air-conditioning system for use of the Library in all seasons. |  |

b.10. GYMNASIUMS shall be designed to conform to the following standards and shall have a minimum playing floor and total area based on the student enrollment as given by the following table:

| School/Student Enrollment | Minimum Playing Floor <br> Area (Square Feet) | Minimum Gymnasium Unit <br> Area (Square Feet) |
| :---: | :---: | :---: |
| Elementary | 5,050 | 5,500 |
| Middle/450 | 8,175 | 10,375 |
| Middle/600 | 8,575 | 10,775 |
| Middle/750 | 9,175 | 11,975 |
| Middle/900 | 9,600 | 12,400 |
| High/750 | 10,600 | 14,400 |
| High/1,000 | 10,600 | 16,000 |
| High/1,500 | 11,700 | 17,100 |

b.10.1) Location:

* All gymnasiums shall be located on the ground floor, remote from classrooms to minimize sound transmission and in close proximity to the outdoor play area.
* Locate in close proximity to the parking areas to reduce the movement of people through the building or along its perimeter to reduce vandalism.
* The gymnasium playing floor, locker rooms and support spaces shall be located on the same level for accessibility by the physically disabled to these spaces from the main building and the exterior. If necessary, provide an elevator.
b.10.2) Support Spaces: The Minimum Gymnasium Unit Area shall be internally subdivided to provide the following support spaces:


## GYMNASIUM SUPPORT SPACES

| Grade Level | Support <br> Space <br> Room <br> Name | Minimum <br> Area (Square Feet) | Special Features |
| :---: | :---: | :---: | :---: |
| Elementary | Coach/ Instructor Office ${ }^{\text {a }}$ | 150 | Provide a private toilet and shower |
| All | P.E. <br> Storage ${ }^{\text {a }}$ | 300 | Where mezzanine is utilized, provide some storage space on this level |
| Grades 7 and above (One per sex) | Coach/ Instructor Office | 150 | Provide a private toilet and shower |
|  | Locker Room | As required | Lockers based on 1/4 of the total school enrollment with $1 / 2$ of this number for each sex; Provide (35-50) 12"x36"x12" lockers and (210-300) 12"x12"x12" lockers |
|  | Toilet \& Shower Room | As required | Minimum of five (5) shower heads in each shower area with modesty shielding for girls; Drying area with floor drain and towel hooks |
| High School | Training Room | As required | Accessible to both sexes; Provide a sink, floor drain, space for a 30 "x60" taping table and space and connections for a whirlpool; Provide a telephone outlet |
|  | Laundry Room | As required | Hookups for washer and dryer in a space supervised from the coach's office |
|  | Visiting Team Locker, Toilet/Sho wer Room (One per sex) | As required to suit maximum team size | Provide lockers and showers as noted above |

## Notes:

(a) All Support Spaces are to be provided within the Minimum Gymnasium Unit Area, except at elementary schools where these spaces are provided in addition to the minimum unit area.
(b) Shower and toilet rooms shall have keyed light switches remote from wet areas.
b.10.3) The Minimum Standards as given by the following table shall be provided in each gymnasium:

MINIMUM GYMNASIUM STANDARDS

| Standard | Minimum |  |  |
| :---: | :---: | :---: | :---: |
|  | Elementary School | Middle/Jr High School | High School |
| Student Capacity | Provide bleacher seating for the entire student body for non-athletic functions and assemblies |  |  |
| Ceiling Height/ <br> Unobstructed clearance above basketball court | 20'-0" | 22'-0" | 24'-0" |
| Room Dimensions | The minimum basketball court size shall be 42' x 74', with 6'-0" of space minimum along each side and $8^{\prime}-0$ " of space minimum at each end, for clearance between court and wall | The minimum b 50'-0" x 84'-0" 74'-0" for pract perpendicular to between; See th | tball court sizes shall be mpetition and 45'-0" x Layout practice courts in court with three feet ble above for Minimum Floor Areas ${ }^{\text {a }}$ |
| Artificial Illumination | 50 footcandles; provide quartz re-strike switching on four light fixtures (located at each cornerof the main court) for immediate illumination |  |  |
| Chalkboard/Markerboard | N.A. |  |  |
| Tackboard | N.A. |  |  |
| Finishes | Low maintenance; Consider the acoustic qualities of materials for non-physical education use of space; basketball court floor to be wood or rubberized sports floor |  |  |
| Storage | See Table at b.8.2 |  |  |
| Technology | Voice, data and video outlets at (1) teacher station; Power outlets at each computer and video outlet |  |  |
| Equipment | -- | -- | Main court goals to have glass backboards with breakaway rims |
| Utilities | Provide an air-conditioning system for summer use of the gymnasium; Mechanical units \& ductwork shall be designed to reduce noise levels per ASHRAE \& RC 35-40 |  |  |
| Special Features | Provide bullnose masonry units at all corners inside the gym; Provide acoustical materials at walls and ceilings to reduce noise for non-athletic functions |  |  |
| Notes: <br> (a) For High School the main court space shall be 100'-0"x 106'-0" with no bleacher encroachment; <br> (b) Inserts in wood gymnasium floors for volleyball standards are prohibited. Inserts for scoreboard controls, electrical or public address system outlets may be utilized but shall be located off the court and within 3'-0" of the closed bleacher. <br> (c) Provide protective cages on all thermostats, alarms, switches, etc. |  |  |  |

b.11. TECHNOLOGY EDUCATION INSTRUCTIONAL UNITS shall be provided in accordance with the following table:

TECHNOLOGY EDUCATION INSTRUCTIONAL UNITS

| Grade Level | Minimum Unit Area <br> (Square Feet) | Unit/Student Ratio |
| :---: | :---: | :---: |
| Elementary | N.A. |  |
| Middle/Junior High | 2750 | $1 / 150$ |
| High | Modular $=2750$ | $1 / 150$ |
|  | Systems $=3400$ |  |
|  | Advanced $=2750$ |  |

b.11.1) Location: Shielded from noise-producing activities and functions.
b.11.2) Support Spaces: The Minimum Unit Area shall be internally subdivided to provide the following support spaces:

## TECHNOLOGY EDUCATION INSTRUCTIONAL UNIT SUPPORT SPACES

| Grade Level | Support <br> Space <br> Room <br> Name | Minimum Area (Square Feet) | Special Features |
| :---: | :---: | :---: | :---: |
| Middle/ Junior High Modular Lab | Classroom | 625 | Provide the classroom area within the lab enclosure |
|  | Productio n | 150 | Provide: one 48 "x30"x24" base storage cabinet and one 48 "x30"x24" drawer cabinet with plastic laminate countertop; view window from Lab; and solenoid-type "kill switch" to all electrical outlets |
|  | AudioVisual | 150 | Provide: one 48 "x30"x24" base storage cabinet and one 48 "x30"x24" drawer cabinet with plastic laminate countertop; and view window from Lab |
|  | Darkroom | 75 | Provide: one 48 "x 30 "x 24 " base storage cabinet and one 48 "x30"x24" drawer cabinet with plastic laminate countertop; sink with hot \& cold water; exhaust fan; and revolving darkroom door with rubylith window |
|  | Office | 75 | Provide voice and data outlets |
|  | Storage | 75 | Provide: one 48 "x30"x24" base storage cabinet and one 48 "x30"x24" drawer cabinet with plastic laminate countertop; and 48 LF of 12" deep shelving |
| High School Modular Lab | Classroom | 625 | See Special Features for Middle/Junior High Modular Lab |
|  | $\begin{gathered} \text { Productio } \\ \mathrm{n} \\ \hline \end{gathered}$ | 150 |  |
|  | AudioVisual | 150 |  |
|  | Darkroom | 75 |  |
|  | Office | 75 |  |
|  | Storage | 75 |  |

Continued next page...

| Grade Level | Support <br> Space <br> Room <br> Name | Minimu <br> m Area <br> (Square <br> Feet) | Special Features |
| :---: | :---: | :---: | :---: |
|  |  |  |  |


| High School Systems <br> Lab (Production <br> Systems, <br> Communication <br> Systems, <br> Transportation <br> Systems and Biorelated Systems | Classroom | 625 | Provide the classroom area within the lab enclosure |
| :---: | :---: | :---: | :---: |
|  | Production | 500 | Provide: four 48"x30"x24" base storage cabinets and four 48 "x30"x24" drawer cabinets with plastic laminate countertops; view window from Lab; and solenoid-type "kill switch" to all electrical outlets |
|  | AudioVisual | 150 | Provide: one 48 "x30"x24" base storage cabinet and one 48 "x30"x24" drawer cabinet with plastic laminate countertop; and view window from Lab |
|  | Darkroom | 150 | Provide: two 48 "x30"x24" base storage cabinets and two 48 "x30"x24" drawer cabinets with plastic laminate countertop; sink with hot \& cold water; exhaust fan; and revolving darkroom door with rubylith window |
|  | Office | 75 | Provide voice and data outlets |
|  | Storage | 75 | Provide: one 48 " $x 30$ "x 24 " base storage cabinet and one 48 "x30"x24" drawer cabinet with plastic laminate countertop; and 48 LF of 12" deep shelving |
| High School Advanced Lab (Computer-Aided Design \& Drafting Technology, Electricity/ Electronics <br> Technology, Construction Technology, Manufacturing Technology and Graphic Communications Technology | Classroom | 625 | Provide the classroom area within the lab enclosure |
|  | Provide internal subdivisions per program requirements based on KDE recommendations |  | Provide Special Features per program requirements based on KDE recommendations |
|  | Office | 75 | Provide voice and data outlets |
|  | Storage | 75 | Provide: one 48"x30"x24" base storage cabinet and one 48 "x30"x24" drawer cabinet with plastic laminate countertop; and 48 LF of 12" deep shelving |

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b.11.3) The Minimum Standards as given by the following table shall be provided in each Technology Education Instructional Unit:

## MINIMUM TECHNOLOGY EDUCATION INSTRUCTIONAL UNIT STANDARDS

| Standard | Minimum |  |
| :---: | :---: | :---: |
|  | Support Space | Laboratory |

b.12. HOME ECONOMICS INSTRUCTIONAL UNITS shall be provided in accordance with the following table:

## HOME ECONOMICS INSTRUCTIONAL UNITS

| Grade Level | Minimum Unit Area <br> (Square Feet) | Unit/Student Ratio |
| :---: | :---: | :---: |
| Elementary | N.A. | N.A. |
| Middle/Junior High | 900 |  |
| High | One teacher: 2,400 | Per program |
|  | Two teachers: 3,000 |  |
|  | Three teachers: 3,600 |  |

b.12.1) Location: Shielded from noise-producing activities and functions.
b.12.2) Support Spaces: The Minimum Unit Area shall be internally subdivided to provide the following support spaces:

HOME ECONOMICS INSTRUCTIONAL UNIT SUPPORT SPACES

| Grade Level | Support <br> Space <br> Room <br> Name | Minimum <br> Area (Square Feet) | Special Features |
| :---: | :---: | :---: | :---: |
| Middle/Juni or High | N.A. | N.A. | N.A. |
| High | Office | One teacher: 150 | Lockable file cabinets |
|  |  | Two teachers: 200 |  |
|  |  | Three teachers: 250 |  |
|  | Storage | 150 | Cabinets and shelving for the storage of books, instructional materials, audio-visual tapes and equipment, etc. |

b.12.3) The Minimum Standards as given by the following table shall be provided in each Home Economics Instructional Unit:

MINIMUM HOME ECONOMICS INSTRUCTIONAL UNIT STANDARDS

| Standard | Minimum |  |
| :---: | :---: | :---: |
|  | Support Space | Instructional Space |
| Student Capacity | N.A. | 28 Students |
| Ceiling Height | 8'-8" | 8'-8" |
| Room Dimension | 8'-0" | 22'-0" |
| Artificial Illumination | 50 footcandles | 50 footcandles |
| Markerboard | N.A. | 48 square feet in the Classroom area |
| Tackboard | N.A. | 48 square feet in the Classroom area, with 48 LF of tackstrip distributed as required |
| Finishes | Low maintenance | Low maintenance |
| Storage | See b.12.2 |  |
| Technology | Voice, data and video outlets at (1) teacher station; Data outlets at each student station; Power outlets at each computer and video outlet |  |
| Equipment | Minimum of (5) Unit Kitchens for the one teacher program; Ranges, microwave ovens, refrigerators, small appliances |  |
| Utilities | Hot \& cold water at Unit Kitchens; exhaust ventilation at range hoods and dryers; electrical outlets along perimeter walls |  |
| Special Features | See (a) below |  |
| (a) Programs in Child Development Services shall provide additional space and meet the requirements of the Cabinet for Human Resources Day Care Administrative Regulations. |  |  |

b.13. HEALTH SERVICES INSTRUCTIONAL UNITS shall be provided in accordance with the following table:

## HEALTH SERVICES INSTRUCTIONAL UNITS

| Grade Level | Minimum Unit Area <br> (Square Feet) | Unit/Student Ratio |
| :---: | :---: | :---: |
| Elementary | N.A. | N.A. |
| Middle/Junior High | 900 | One per program |
| High | 1280 | One per program |

b.13.1) Location: Shielded from`noise-producing activities and functions.
b.13.2) Support Spaces: The Minimum Unit Area shall be internally subdivided to provide the following support spaces:

HEALTH SERVICES INSTRUCTIONAL UNIT SUPPORT SPACES

| Grade <br> Level | Support <br> Space <br> Room <br> Name | Minimum <br> Area <br> (Square <br> Feet) | Special Features |
| :---: | :---: | :---: | :---: |
| All | Storage | 150 | Lockable storage; shelving |

b.13.3) The Minimum Standards as given by the following table shall be provided in each Health Services Instructional Unit:

MINIMUM HEALTH SERVICES INSTRUCTIONAL UNIT STANDARDS

| Standard | Minimum |  |
| :---: | :---: | :---: |
|  | Support Space | Instructional Space |
| Student Capacity | N.A. | 15 Students |
| Ceiling Height | 8'-8" | 8'-8" |
| Room Dimension | 8'-0" | 22'-0" |
| Artificial Illumination | 50 footcandles | 50 footcandles |
| Chalkboard/Markerboard | N.A. | 48 square feet |
| Tackboard | N.A. | 48 square feet |
| Finishes | Low maintenance | Low maintenance |
| Storage | See b.13.2 |  |
| Technology | Voice, data and video outlets at (1) teacher station; Data outlet at each student station per KETS Standards; Power outlets at each computer and video outlet |  |
| Equipment | Electric bed with mattress, linens and bedside table; Copier, dictating \& transcribing machine, audio-visual equipment, projection screen; Microwave oven \& refrigerator |  |
| Utilities | Hot \& cold water with sink; electric outlets for appliances and audio-visual equipment |  |
| Special Features | Library area with book shelving |  |

b.14. VOCATIONAL AGRICULTURE INSTRUCTIONAL UNITS shall be provided in accordance with the following table:

VOCATIONAL AGRICULTURE INSTRUCTIONAL UNITS

| Grade Level | Minimum Unit Area <br> (Square Feet) | Unit/Student Ratio |
| :---: | :---: | :---: |
| Elementary | N.A. | N.A. |
| Middle/Junior High | 750 |  |
| High | One teacher: 3120 | $1 / 120$ |
|  | Two teachers: 3900 |  |
|  | Three teachers: 4680 | $1 / 120$ |
| High School <br> Horticulture | 2400 |  |

b.14.1) Location: On the ground floor with access to an exterior fenced courtyard. Locate greenhouses to take advantage of the sunlight.
b.14.2) Support Spaces: The Minimum Unit Area shall be internally subdivided to provide the following support spaces:

## VOCATIONAL AGRICULTURE INSTRUCTIONAL UNIT SUPPORT SPACES

| Grade Level | Support Space Room Name | Minimum Area (Square Feet) | Special Features |
| :---: | :---: | :---: | :---: |
| Middle/Junior High | N.A. | N.A. | N.A. |
| High School <br> (1 Teacher) | Classroom | 750 | Hot \& cold water at a sink located at teacher's station or resource cabinet |
|  | Agricultural Mechanics Lab | 2000 | Provide access through a 10' x 10' overhead door to an exterior 2000 SF courtyard enclosed with an 8'-0" high fence with a $10^{\prime}-0$ " wide gate located opposite the overhead door for direct access |
|  | Office | 100 | Provide voice, data and power outlets |
|  | Resource Storage | 100 | Accessible from classroom |
|  | Tools \& Supplies | 170 | Accessible through "Dutch" door |
| High School <br> (2 Teachers) | Classroom | 2@750=1500 | Same as Special Features for 1 Teacher program |
|  | Agricultural Mechanics Lab | 2000 |  |
|  | Office | 130 |  |
|  | Resource Storage | 100 |  |
|  | Tools \& Supplies | 170 |  |
| High School <br> (3 Teachers) | Classroom | 3@750=2250 | Same as Special Features for 1 Teacher program |
|  | Agricultural Mechanics Lab | 2000 |  |
|  | Office | 150 |  |
|  | Resource Storage | 100 |  |
|  | Tools \& Supplies | 180 |  |
| High School | Classroom | 750 | Hot \& cold water at a sink located at teacher's station or |

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| Horticulture |  |  | resource cabinet |
| :---: | :---: | :---: | :---: |
|  | Agricultural Mechanics Lab | 1250 | Provide access to an exterior 1250 SF courtyard enclosed with an 8'-0" high chain-link fence |
|  | Office | 100 | Provide voice, data and power outlets |
|  | Resource Storage | 100 | Accessible from classroom |
|  | Tools \& Supply | 200 | Accessible through "Dutch" door |
|  | Greenhouse | 1800 | Divide into two areas with separate temperature controls: a 600 SF Preparation Area, and a 1200 SF Plant Area; Locate close to Agr. Mech. Lab when Horticulture only is offered |
|  | Head House | 600 | May be incorporated into the Agr. Mech. Lab when Horticulture only is offered |

b.14.3) The Minimum Standards as given by the following table shall be provided in each Vocational Agriculture Instructional Unit:
MINIMUM VOCATIONAL AGRICULTURE INSTRUCTIONAL UNIT STANDARDS

| Standard | Minimum |  |
| :---: | :---: | :---: |
|  | Support Space | Instructional Space |
| Student Capacity | N.A. | 28 Students |
| Ceiling Height | 8'-8" | 8'-8" |
| Room Dimension | $8^{\prime \prime}-0 "$ | 22'-0" |
| Artificial Illumination | 50 footcandles | 50 footcandles |
| Chalkboard/Markerboard | N.A. | 48 square feet |
| Tackboard | N.A. | 48 square feet |
| Finishes | Low maintenance | Low maintenance |
| Storage | See b.14.2 |  |
| Technology | Voice, data and video outlets at (1) teacher station; Data outlet at each student station per KETS Standards; Power outlets at each computer and video outlet |  |
| Equipment | -- |  |
| Utilities | -- |  |

b. 15 BUSINESS EDUCATION INSTRUCTIONAL UNITS shall be provided in accordance with the following table:

## BUSINESS EDUCATION INSTRUCTIONAL UNITS

| Grade Level | Minimum Unit Area <br> (Square Feet) | Unit/Student Ratio |
| :---: | :---: | :---: |
| Grades $5 \& 6$ | 800 | Per program |
| Middle/Junior High | 900 | Per program |
| High School <br> Lecture/Computer Lab | 1520 | $1 / 150$ |

b.15.1) Location: Shielded from noise-producing activities and functions.
b.15.2) Support Spaces: The Minimum Unit Area shall be internally subdivided to provide the following support spaces:

## BUSINESS EDUCATION INSTRUCTIONAL UNIT SUPPORT SPACES

| Grade | Support <br> Space <br> Room <br> Name | Minimum <br> Area <br> (Square <br> Feet) | Special Features |
| :---: | :---: | :---: | :---: |
| High School <br> Lecture/ <br> Computer <br> Lab | Teacher <br> Workroom/ <br> Coop Office | 180 | Provide voice and data outlets; lockable file <br> cabinets for confidential student records |
| All | Storage | 60 | Lockable room with shelving for instructional <br> materials |

b.15.3) The Minimum Standards as given by the following table shall be provided in each Business Education Instructional Unit:

MINIMUM BUSINESS EDUCATION INSTRUCTIONAL UNIT STANDARDS

| Standard | Minimum |  |
| :---: | :---: | :---: |
|  | Teacher Workroom/Coop Office | Instructional Space |
| Student Capacity | 1 | 28 Students |
| Ceiling Height | 8'-8" | 8'-8" |
| Room Dimension | 10'-0" | 22'-0" |
| Artificial Illumination | 50 footcandles | 50 footcandles |
| Chalkboard/Markerboard | N.A. | 48 square feet |
| Tackboard | N.A. | 48 square feet |
| Finishes | Low maintenance | Low maintenance |
| Storage | See b.15.2 |  |
| Technology | Voice, data and video outlets at (1) teacher station; Power outlets at each computer and video outlet | Voice, data and video outlets at (1) teacher station; Data outlet at each student station per <br> KETS Standards; Additional data outlets for point of sale terminals and other industry equipment; Power outlets at each computer and video outlet |
| Equipment | -- |  |
| Utilities | -- |  |
| Special Features | Full length window(s) between classroom and lab(s) |  |

Notes:
(a) Model layouts for program type are available from KDE Division of Secondary Vocational Education.
b.16. DEVELOPMENTAL OCCUPATIONS INSTRUCTIONAL UNITS shall be provided in accordance with the following table:

DEVELOPMENTAL OCCUPATIONS INSTRUCTIONAL UNITS

| Grade Level | Minimum Unit Area <br> (Square Feet) | Unit/Student Ratio |
| :---: | :---: | :---: |
| Elementary | N.A. | N.A. |
| Middle/Junior High | N.A. | N.A. |
| High | 1600 | One per program |

b.16.1) Location: Shielded from noise-producing activities and functions.
b.16.2) Support Spaces: The Minimum Unit Area shall be internally subdivided to provide the following support spaces:

## DEVELOPMENTAL OCCUPATIONS INSTRUCTIONAL UNIT SUPPORT SPACES

| Grade <br> Level | Support <br> Space <br> Room <br> Name | Minimum <br> Area <br> (Square <br> Feet) | Special Features |
| :---: | :---: | :---: | :---: |
| High School | Storage | 200 | Storage for reference books \& teaching <br> materials |

b.16.3) The Minimum Standards as given by the following table shall be provided in each Developmental Occupations Instructional Unit:

MINIMUM DEVELOPMENTAL OCCUPATIONS INSTRUCTIONAL UNIT STANDARDS

| Standard | Minimum |  |
| :---: | :---: | :---: |
|  | Support Space | Instructional Space |
| Student Capacity | N.A. | 15-18 Students |
| Ceiling Height | 8'-8" | 8'-8" |
| Room Dimension | 8'-0" | 32'-0" |
| Artificial Illumination | 50 footcandles | 50 footcandles |
| Chalkboard/Markerboard | N.A. | 48 square feet |
| Tackboard | N.A. | 48 square feet |
| Finishes | Low maintenance | Low maintenance |
| Storage | See b.16.2 |  |
| Technology | Voice, data and video outlets at (1) teacher station; Data outlet at each student station per KETS Standards; Power outlets at each computer and video outlet |  |
| Equipment | Provide equipment per program and curriculum requirements based on KDE recommendations |  |
| Utilities | Provide handwashing sink |  |
| Special Features | -- |  |

b.17. MARKETING EDUCATION INSTRUCTIONAL UNITS shall be provided in accordance with the following table:

MARKETING EDUCATION INSTRUCTIONAL UNITS

| Grade Level | Minimum Unit Area <br> (Square Feet) | Unit/Student Ratio |
| :---: | :---: | :---: |
| Middle/Junior High <br> Lecture/Workbased Learning <br> Lab | 750 | $1 / 150$ |

b.17.1) Location: Shielded from noise-producing activities and functions.
b.17.2) Support Spaces: The Minimum Unit Area shall be internally subdivided to provide the following support spaces:

MARKETING EDUCATION INSTRUCTIONAL UNIT SUPPORT SPACES

| Grade | Support <br> Lpacel <br> Room <br> Name | Minimum <br> Area <br> (Square <br> Feet) | Special Features |
| :---: | :---: | :---: | :---: |
| High School <br> Lecture/ <br> Workbased <br> Lab | Storage | 100 | Lockable room with shelving for instructional <br> materials |
|  | Teacher/Coo <br> p Office | 200 | Provide voice and data outlets; lockable file <br> cabinets for confidential student records |
|  | Workbased <br> Lab | 400 | Varies per program |

b.17.3) The Minimum Standards as given by the following table shall be provided in each Marketing Education Instructional Unit:

MINIMUM MARKETING EDUCATION INSTRUCTIONAL UNIT STANDARDS

| Standard | Minimum |  |  |
| :---: | :---: | :---: | :---: |
|  | Classroom | Lecture Lab | Cooperative Office |
| Student Capacity | 28 | 28 | 1 |
| Ceiling Height | 8'-8" | 8'-8" | 8'-8" |
| Room Dimension | 22'-0" | 22'-0" | 10'-0" |
| Artificial Illumination | 50 footcandles | 50 footcandles | 50 footcandles |
| Chalkboard/Markerboard | 48 square feet | 48 square feet | N.A. |
| Tackboard | 48 square feet | 48 square feet | N.A. |
| Finishes | Low maintenance | Low maintenance | Low maintenance |
| Storage | Storage for teaching materials | See b.17.2 | See b.17.2 |
| Technology | Voice, data and video outlets at (1) teacher station; Data outlet at each student station per KETS Standards; Power outlets at each computer and video outlet | Voice, data and video outlets at (1) teacher station; Data outlet at each student station, with additional outlets for point of sale terminals and other industry-related equipment; Power outlets at each computer and video outlet | Voice, data and video outlets at (1) teacher station |
| Equipment | -- | Customer service counter; other equipment varies by program | -- |
| Utilities | -- | -- | -- |
| Special Features | Direct access to Lab | Display windows at entrance to Lab |  |

Notes:
(a) Model layouts for program type are available from KDE Division of Secondary Vocational Education.
b.18. AUDITORIUMS, when provided, shall have a minimum area based on the student enrollment as given by the following table:

| Student Enrollment | Seating Capacity | Total Auditorium Area <br> (Square Feet) |
| :---: | :---: | :---: |
| 500 | 300 | 3,500 |
| 750 | 350 | 4,000 |
| 1,000 | 400 | 4,500 |
| 1,250 | 450 | 5,000 |
| 1,500 | 500 | 5,500 |

b.18.1) Location: On the ground level.
b.18.2) Support Spaces: Internal subdivisions are to be provided as needed.
b.18.3) The Minimum Standards as given by the following table shall be provided in each auditorium unit:

MINIMUM AUDITORIUM STANDARDS

| Standard | Minimum |
| :---: | :---: |
| Student Capacity | See Table at b.18. |
| Ceiling Height | Varies |
| Room Dimension | Varies |
| Artificial Illumination | Varies |
| Chalkboard/Markerboard | N.A. |
| Tackboard | N.A. |
| Finishes | Low maintenance |
| Storage | -- |
| Technology | Voice, data and video outlets at (1) teacher station; Power |
| outlets at each computer and video outlet |  |
| Equipment | -- |
| Utilities | -- |
| Special Features |  |

b.19. The ADMINISTRATIVE SUITE, provided in each school, shall be designed to conform to the following standards and shall have a minimum total area based on student enrollment as given by the following table:

| Total Student Enrollment | Minimum Administrative Suite Unit Area <br> (Square Feet) |
| :---: | :---: |
| 300 to 599 | 1,720 |
| 600 to 899 | 1,870 |
| 900 to 1,199 | 2,020 |
| 1,200 to 1,499 | 2,170 |
| $1,500+$ | 2,320 |

b.19.1) Location: At main entry of the building in a central location on the ground floor.
b.19.2) Support Spaces: The Minimum Administrative Suite Unit Area shall be internally subdivided to provide the following support spaces:

ADMINISTRATIVE SUITE SUPPORT SPACES

| Support Space <br> Room Name | Minimum Area <br> (Square Feet) | Special Features |
| :---: | :---: | :---: |
| General Office | 200 | Includes Receptionist, Waiting; Locate to <br> supervise visitor traffic |
| Staff Office | 150 |  |


| Records Room | 150 | Provide a fire-resistance rating of (2) hours; Must be located adjacent to or within easy access of both the guidance and the general offices; Provide file storage space for the maximum anticipated student enrollment at the ratio of one file cabinet per 100 students |
| :---: | :---: | :---: |
| Guidance Reception | 150 | Locate guidance reception in a manner that is accessible to a corridor without direct view to the administrative area housing either the principal or assistant principal; Provide a door between the administrative suite and the guidance suite if necessary for student privacy |
| Guidance Office | 150 | Provide a minimum of one Guidance Office at each school; For middle, junior and high schools, provide an additional office for each 300 students; Locate the guidance office or suite adjacent to the fireproof records storage |
| Site Based Office | 150 | Locate with access from main corridor without passage through the general office area |
| Site Based Conference | 270 | Where a conference room is to be provided in the administrative suite, its location should be accessible to both the guidance office/suite and the administration area |

b.19.3) The Minimum Standards as given by the following table shall be provided in each administrative suite:

MINIMUM ADMINISTRATIVE SUITE STANDARDS

| Standard | Minimum |
| :---: | :---: |
| Student Capacity | N.A. |
| Ceiling Height | $8^{\prime}-8 "$ |
| Room Dimension | N.A. |
| Artificial Illumination | 50 footcandles |
| Chalkboard/Markerboard | N.A. |

$\left.\begin{array}{||c|c||}\hline \text { Tackboard } & 24 \text { square feet in Workroom } \\ \hline \text { Finishes } & \begin{array}{c}\text { Low maintenance }\end{array} \\ \hline \text { Storage } & \begin{array}{c}\text { Soe Records Room above; Provide storage for } \\ \text { office supplies }\end{array} \\ \hline \text { Technology } & \text { Power outlets at each computer outlet }\end{array}\right\}$

Notes:
(a) Provide an air-conditioning system for all-season occupancy.
(b) Special attention to sound attenuation is required, provide office and conference enclosures with STC-ratings of no less than 50, (Doors of STC 34).
(c) Provide outlets for telephone, computer data and power in all administrative office spaces.
(d) Staff toilets should be located off of a connecting hallway into teachers' lounge or workroom. (Toilets in lounge or workroom should be visually shielded.)
b.20. The FAMILY RESOURCE AREA whether provided at a school site or at a remote location, shall be designed to conform to the following standards and shall have a minimum total area based on the following table:

FAMILY RESOURCE AREA UNITS

| Grade Level | Minimum Unit Area <br> (Square Feet) | Unit/Student Ratio |
| :---: | :---: | :---: |
| All | 300 <br> Provide additional area to as <br> required suit the services to be <br> provided | N.A. |

b.20.1) Location: Locate outside of the administrative suite with access directly from the exterior and with consideration given to operation during non-school hours. In elementary schools, consider a location accessible to pre-school classrooms.
b.20.2) Support Spaces: The Minimum Family Resource Area Unit shall be internally subdivided to provide the support spaces required by the services to be offered.
b.20.3) The Minimum Standards as given by the following table shall be provided in each administrative suite:

## MINIMUM FAMILY RESOURCE AREA STANDARDS

| Standard | Minimum |
| :---: | :---: |
| Student Capacity | N.A. |
| Ceiling Height | 8'-8" |
| Room Dimension | 15'-0" |
| Artificial Illumination | 50 footcandles |
| Chalkboard/Markerboard | N.A. |
| Tackboard | N.A. |
| Finishes | Low maintenance |
| Storage | Provide storage for office supplies and lockable file cabinets for student/client records |
| Technology | Voice and data outlets per the KETS Standards; Power outlets at each computer outlet |
| Equipment | -- |
| Utilities | -- |
| Special Features | -- |
| Notes: <br> (a) Provide an air-conditioning system for all-season occupancy. <br> (b) Special attention to sound attenuation is required, provide office enclosures with STCratings of no less than 50, (Doors of STC 34). |  |

b.21. KITCHEN/CAFETERIA shall be provided to conform to the following standards and shall have a minimum total area based on the student enrollment as given by the following table:

| Student Enrollment | Minimum Kitchen Unit <br> Area (Square Feet) | Minimum Cafeteria Unit <br> Area (Square Feet) |
| :---: | :---: | :---: |
| 300 to 599 | 2,200 | 3,000 |
| 600 to 899 | 3,000 | 4,600 |
| 900 to 1,199 | 3,800 | 6,200 |
| 1,200 to 1,500 | 4,700 | 7,800 |

b.21.1) Location: On the ground floor.
b.21.2) Support Spaces: The Minimum Kitchen/Cafeteria Unit Area shall be internally subdivided to provide the following support spaces:

KITCHEN/CAFETERIA SUPPORT SPACES

| Support Space <br> Room Name | Minimum Area <br> (Square Feet) | Special Features |  |
| :---: | :---: | :---: | :---: |
| Manager's Office | 64 | Provide visual control of the main food <br> preparation area, the delivery door, walk-in <br> freezer/cooler and dry foods storage from the <br> manager's office; Requires lockable door to <br> secure cafeteria records; Provide telephone and <br> computer data and power outlets, mounted <br> above countertop height. |  |
| Staff Toilet | 25 | Provide an entry vestibule to toilet room <br> containing staff lockers |  |
| Dry Food Storage | $1 / 2$ SF to 1 SF per <br> student enrollment <br> or the number of <br> lunches served | Provide air-conditioning to maintain proper <br> temperatures for year-round use per Federal <br> guidelines |  |
| 80 | Provide space for a washer and dryer with hot <br> and cold water, 220v electrical outlet and dryer <br> vent, as well as shelving for non-food items; <br> Provide a mop receptor/sink for cleaning the <br> floor |  |  |
| Non-Food Storage |  |  |  |

b.21.3) The Minimum Standards as given by the following table shall be provided in each kitchen/cafeteria:

## MINIMUM KITCHEN/CAFETERIA STANDARDS

| Standard | Minimum |
| :---: | :---: |
| Student Capacity | See Table at b.22 |
| Ceiling Height | 10'-0" |
| Room Dimension | As required |
| Artificial Illumination | 50 footcandles |
| Chalkboard/Markerboard | N.A. |
| Tackboard | N.A. |
| Finishes | Low maintenance, sanitary; Provide non-slip floor surface. |
| (Normal vinyl tile, seamless flooring or concrete must have non- |  |
| slip texture.) |  |

Notes:
(a) Provide one serving line for each 300 students.
(b) Provide an exterior can wash area (or a room accessible to the outside) with hot and cold water.
(c) Provide a service/delivery door annunciator with push button at door and buzzer in Kitchen with light located so as to be seen from view window in the manager's office.
(d) Locate the condensers for the walk-in cooler/freezer in a remote non-conditioned space, or outside if properly protected. Allow for heat dissipation into a well-vented space and easy access for maintenance.
(e) Provide a minimum 5'-0" clear aisle space around or at front edge of cooking battery, and 4'-0" clear aisles at all other food preparation items/equipment.
(f) Provide a floor drain for condensation lines at all hot and cold food units and ice makers.
(g) Provide a floor drain under the draw-off valve at tilting skillet and steam kettle.
(h) Provide faucet and floor drain at vertical cutter mixer.
(i) Provide stainless steel or other non-porous countertops or tables for slicers and/or microwaves.
(j) Provide a Baker's preparation area with mobile bins and condiment shelf.
(k) Provide work stations to suit the number of staff.
(l) Provide at least one hand sink in the food preparation area.
b.22. CUSTODIAL RECEIVING room shall be provided in accordance with the following table:

## CUSTODIAL RECEIVING UNITS

| Grade Level | Minimum Unit Area <br> (Square Feet) | Units/Student Ratio |
| :---: | :---: | :---: |
| All | 250 | N.A. |

b.22.1) Location: On ground floor with direct access from delivery truck loading/unloading area.
b.22.2) Support Spaces: Internal subdivisions are not required.
b.22.3) The Minimum Standards as given by the following table shall be provided in each Custodial Receiving unit:

## MINIMUM CUSTODIAL RECEIVING STANDARDS

| Standard | Minimum |
| :---: | :---: |
| Student Capacity | N.A. |
| Ceiling Height | 8'-8" |
| Room Dimension | 8'-0" |
| Artificial Illumination | 50 footcandles |
| Chalkboard/Markerboard | N.A. |
| Tackboard | N.A. |
| Finishes | Low maintenance |
| Storage | Provide shelving for bulk storage of equipment and supplies |
| Technology | Voice and data outlets per the KETS Standards; Power at the data outlet |
| Equipment | -- |
| Utilities | Provide floor mop sink |
| Special Features | -- |
| Notes: (a) Provide a custodial closet with floor mop sink in each major building area. |  |

b.23. MISCELLANEOUS BUILDINGS
b.23.1 BUS GARAGES shall be provided in accordance with the following table:

BUS GARAGES

| Number of Bays Required | Minimum Unit Area (Square Feet) |
| :---: | :---: |
| 1 | 2,400 |
| 2 | 3,600 |
| 3 | 4,800 |
| Each additional bay | 1,200 |

b.23.2 CENTRAL OFFICE space shall be provided in accordance with the following table:

CENTRAL OFFICE

| Function | Minimum Unit Area (Square Feet) |
| :---: | :---: |
| Central Office | $1,350^{\mathrm{a}}$ |
| Board Room | 1,000 |
| Fireproof Records Storage | 150 |
| Notes: (a) Add 200 square feet for each additional professional position in excess of the thre listed in the most recent KDE directory. |  |

b.23.3 CENTRAL STORAGE FACILITIES shall be provided in accordance with the following table:

CENTRAL STORAGE FACILITIES

| District Enrollment | Minimum Unit Area (Square Feet) |
| :---: | :---: |
| Less than 1,000 | 2,500 |
| $1,000-5,000$ | 5,000 |
| $5,000-7,500$ | 7,500 |
| Greater than 7,500 | 10,000 |

## c. UNASSIGNABLE SPACE:

## c.1. CIRCULATION

c.1.1 CORRIDORS:
c.1.1.1) The minimum width for elementary school main corridors shall be eight (8) feet in the clear.
c.1.1.2) The minimum width for a middle school, junior high school, or high school main corridor shall be nine (9) feet in the clear.'
c.1.1.3) Corridors shall terminate at an approved egress or at a stairway which leads directly to an approved egress.
c.1.1.4) Classrooms may be entered from an alcove off the corridor, provided that the alcove is no larger that eight (8) feet wide by six (6) feet deep. In no case shall more than two (2) instructional areas empty into a dead-end corridor or an alcove.
c.1.1.5) The minimum width of secondary corridors shall be six (6) feet.
c.1.1.6) The corridor ceiling height shall be a minimum of eight (8) feet in the clear.

## c.1.2 STAIRWAYS:

c.1.2.1) Stairways used for student circulation to and from instructional spaces shall have a clear distance between handrails of sixty (60) inches. At these stairways, door openings between stairwell and corridor shall have a pair of doors no less than 3'-0" wide per leaf.
c.1.2.2) Each exterior stairway used as a primary building exit shall be covered and shielded from the weather.
c.1.3 RAMPS:
c.1.3.1) Ramps used for student circulation to and from instructional spaces shall have a clear distance between handrails of sixty (60) inches.
c.1.3.2) Each exterior ramp or paved approach, where the slope is greater than one in twenty (1:20), used as a primary building exit shall be covered and shielded from the weather.
c.2. GENERAL STORAGE area of no less than 250 square feet for equipment and material storage shall be provided in every school building.
c.3. TECHNOLOGY: Space for computer network distribution frames shall be provided in accordance with the following table:

DISTRIBUTION FRAME ROOMS

| Distribution Frame | Minimum Unit Area <br> (Square Feet) | Location |
| :---: | :---: | :---: |
| Campus (CDF) | 200 | Centralized location between buildings |
| Main (MDF) | $100^{\mathrm{a}}$ | Centralized location within building |
| Intermediate (IDF) | $9^{\mathrm{b}}$ | Locate to limit cable runs to 245'-0" for <br> copper wire, 500'-0" for fiber-optic |
| Notes: <br> (a) Provide 150 SF when room is to be shared with file servers, computers, telephone switches and <br> equipment racks (PBX's or large key system). <br> (b) 3'-0"x3'-0" closet with 8'-0" high minimum wall space. |  |  |

c.4. MECHANICAL/ELECTRICAL equipment space shall be provided in accordance with the following table:

MECHANICAL/ELECTRICAL EQUIPMENT ROOMS

| Mechanical/Electrical <br> Function | Minimum Unit Area <br> (Square Feet) | Location $_{\mathbf{a}}$ |
| :---: | :---: | :---: |
| Main Mechanical/ <br> Electrical Room | $1 \%$ of Total area of <br> building or addition | Centrally located to reduce service runs |
| Electrical Power Distribution <br> Closets | 20 | Provide one in each main area of the |
| building |  |  |$|$| Centrally located in building |
| :---: |
| Telephone Head-end <br> Equipment |
| Telephone Sub-panel <br> Equipment |
| Technology <br> (Computer Network) |
| Notes: <br> (a) Shield all instructional spaces from the potential hazards of explosion, chemical contamination, <br> etc. <br> (b) Provide for a minimum 30" clear aisle along each side of every major mechanical equipment item <br> where maintenance may be required. Additional clearance shall be provided where recommended by <br> the equipment manufacturer for component removal or replacement. |

PART 3. GENERAL CONSTRUCTION REQUIREMENTS: Construction details shall conform to the following:
a. ROOF CONSTRUCTION and DETAILS: Roof framing shall slope a minimum of $1 / / 4$ " per foot for positive drainage; tapered insulation is not acceptable as the only means of positive slope.
a.1) All roofing systems shall be unconditionally warranted for a period of two (2) years by the roofing manufacturer and by the applicator from the date of final inspection and acceptance of the project.
a.2) Walkways pads or boards, with a minimum width of twenty-two (22) inches, shall be provided on the roof, from the roof access point to and around each piece of major mechanical and electrical equipment.
b. DOORS: Each exit door shall be either recessed or protected by a canopy, except exit doors from individual instructional areas not housing more than forty-five (45) people. A landing of not less than four (4) feet shall be provided from the door threshold to the first step.
b.1) Each door to an instructional area shall be at least three (3) feet by six (6) feet and eight (8) inches. No other door, or single leaf of a pair of doors shall be less than two (2) feet and ten (10) inches in width.
b.2) Each door swinging into a corridor shall swing through 180 degrees or be recessed so it does not project into the minimum width of the corridor.
b.3) In each room where there is a chance of panic by explosion such as a chemistry room, shops, etc., and in each room that houses more than fifty (50) people, such as a library, cafeteria, etc., each exit door shall swing out.
b.4) Any door to the exterior must exit onto a minimum 5' x 5' concrete landing with no change in elevation from the threshold to the pad.
b.5) At each Main Mechanical/Electrical Room, provide a minimum 6'-0" x 6'-0" access door or removable panel for the movement of mechanical or electrical equipment.
b.6) Each door into a Pre-school classroom shall be fitted with a glass view panel, a minimum 6 " clear in width and extending from 10 " above the floor to within 5 " of the top of the door. This view panel may be divided horizontally at its center to accommodate hardware. The opening shall be centered or located toward the lockset side of the door.
c. WINDOWS: Windows shall be provided in each instructional space located on an exterior wall with the exception of: Computer labs, band rooms and gymnasiums (windows may be provided in these spaces if desired).
c.1) Where windows are installed in an instructional space: a.) the minimum area of total window opening for each space shall be 36 square feet; and b.) an area of operable sash shall be required in an amount equal to 2\% of the net floor area. Standard Art Classrooms shall have minimum area of total window opening equal to 72 square feet.
c.2) Each exterior window shall be double glazed or provided with insulating glass. Window frames shall be thermally-broken.
c.3) Operable sections of windows shall be no higher than sixty (60) inches.
c.4) Clerestory windows or skylights shall be prohibited in all instructional spaces with the exception of Art and Biology Classrooms where an exemption to 702 KAR 4:170 shall require the approval of the Director of the Division of Facilities Management.
c.5) The height of a window sash or frame shall be a minimum of thirty (30) inches above the finished floor.
c.6) Window glass openings higher than 8'-8" above the finished floor shall be prohibited in all instructional spaces with the exception of the Library/Media Center and the Middle/High School Art Classroom where an exemption to this requirement shall require the approval of the Director of the Division of Facilities Management.
c.7) Glass block shall be prohibited in all instructional spaces with the exception of the Library/Media Center where an exemption to this requirement shall require the approval of the Director of the Division of Facilities Management.
c.8) In instructional spaces where video, slide or film presentations occur, shades, blinds or other daylight- control devices shall be provided on all windows.
d. MATERIALS/FINISHES: The materials and finishes used in the construction of school facilities shall provide low maintenance, maximum life-cycle service, at a unit cost within the budget established for the project.
d.1) The composite construction of the exterior wall section shall meet a minimum 30-year life cycle .
d.2) The finish materials provided in instructional spaces shall have light reflectance values equal to: $80 \%$ for ceilings; $50 \%$ for walls; and $20 \%$ for floors.
e. ENERGY CONSERVATION: Energy conservation requirements shall conform to the provisions of the Kentucky Building Code.
f. TECHNOLOGY: The provision of the integrated communication network, including voice, data and video wiring and devices shall conform to the Kentucky Education Technology System "Building Wiring Standards", of the Kentucky Department of Education. In general, provide for the following minimum standards: one video, one voice and one data port at the teacher's station in each classroom; one data line for every six (6) students in each regular classroom; two (2) data lines for administrative use in each school; and four (4) data lines for the school district office use.
g. PLUMBING DESIGN: All plumbing shall conform to the requirements of the Kentucky plumbing code, incorporated in the Kentucky Building Code, in effect at the time of approval of the plans or changes thereto, and installation must be approved by authorities having jurisdiction prior to acceptance of the project.
g.1) The sewage disposal plant, where required on school property, shall be remotely located from all developed areas. Natural or artificial screening shall be provided for the disposal unit.
g.2) Hose bibs in toilet rooms with more than one water closet and one lavatory, shall be a minimum of eighteen (18) inches above floor and key-operated.
g.3) In schools where chemicals are utilized in science laboratories, provide an acid dilution pit in the building sewer.
g.4) Provide a grease trap outside the kitchen.
g.5) School buildings of six (6) classrooms or more shall be provided with two (2) exterior freeze-proof hose bibs. One hose bib should be located near the main entry.
g.6) A custodial floor mop sink and shelving shall be provided, in a custodial work room, on each floor level of the building.
g.7) Hot and cold water hydrants shall be provided at the can wash outside the Kitchen.
g.8) In middle, junior or high school training rooms, provide a floor drain and water connections for a whirlpool. Locate to allow access to whirlpool from three sides.
h. HEATING, VENTILATING \& AIR-CONDITIONING DESIGN: The mechanical room shall be planned to permit repair and replacement of equipment, satisfactory cleaning and care, and provide for combustion air. The
mechanical equipment shall be remote from the instructional areas and shall be sufficiently soundproofed so that its operation will not disturb instruction in the classrooms. Plans for new construction and renovation shall provide that the boiler and its related equipment shall not be located directly over, under or adjacent to an instructional area.
h.1) Where the roof areas are being used to house major mechanical and electrical components, a set of stairs or ships ladder shall be provided.
h.2) The heating system shall be of ample capacity and so installed as to insure uniform temperature of seventy (70) degrees being maintained in all occupied rooms when the outside temperature is zero. The air conditioning system shall be of ample capacity and so installed as to insure uniform temperature of seventy-five (75) degrees, fifty (50) percent relative humidity being maintained in all occupied rooms when outside temperature is ninety-five (95) degrees db, seventy-eight (78) degrees wb.
h.3) Mechanical heating, ventilating and air-conditioning shall be provided in all new schools and in additions to existing schools. An exemption may be granted from airconditioning mechanical rooms, shop areas, storage rooms and shower/locker rooms.
h.4) Mechanical systems shall be provided with accessible filters and individual room temperature control. Air shall be introduced in such a manner as not to produce drafts.
h.5) All instructional spaces shall have individual thermostatic control.
h.6) Provide tamper-proof thermostats or lockable covers on all thermostats in public areas and instructional spaces.
h.7) All janitor's closets are to be mechanically exhausted.
h.8) Provide a ducted exhaust register from the shower room and drying area.
h.9) "Gang" toilet rooms, shower rooms and locker rooms in a school building shall be mechanically exhausted. Exhaust registers shall be located at or in the ceiling of each area and exhausted directly to the outside. Exhaust ducts serving rooms for opposite sexes shall not be connected to a common exhaust duct unless adequate sound proofing is provided.
i. ELECTRICAL DESIGN: All electrical work shall conform to the requirements of the Kentucky Building Code.
i.1) Artificial illumination shall be provided in all instructional spaces at a minimum average "maintained" value of fifty (50) footcandles, thirty (30) inches above the floor.
i.2) Artificial illumination shall be provided in all stairways and corridors at a minimum average "maintained" value of twenty (20) footcandles, thirty (30) inches above the floor.
i.3) The design engineer shall address electrical power surge protection of all computer, telephone and video equipment items. Utilize protection devices in coordination with and as directed by the Owner.
i.4) Light switches in shower and toilet rooms shall be key-operated and remotely located from wet areas.
i.5) Each classroom shall be provided with a minimum of: two (2) duplex convenience outlets located remote from each other; one telephone outlet; and one duplex outlet and one data outlet at each computer station. For ETV power supply, each classroom shall be provided one (1) outlet located not less than forty-eight (48) inches nor more than sixty (60) inches above the floor at the end of a chalkboard remote from the entrance to the classroom. Power outlets or connections flush with the floor or countertop are prohibited.
i.6) A minimum of one duplex outlet is required in each habitable space. A convenience outlet shall be provided at each drinking fountain location.
i.7) Each corridor shall be provided with grounded convenience outlets of such capacity and at such intervals to accommodate floor cleaning machines in corridors and classrooms.
i.8) Gymnasium lighting shall be key-switch operated or the switch shall be under lockable cover.
i.9) Four HID light fixtures in the gymnasium shall be equipped with quartz re-strike switching to provide limited illumination to access other parts of the gymnasium.
i.10) Provide a weatherproof power outlet at each main exit.
i.11) Provide telephone, and computer data and power outlets for each office space.
i.12) No light switch shall be located in a shower room where floor might be wet. Shower room lights shall be switched with locker room lights.
i.13) In athletic training rooms where a whirlpool will be installed, a GFI outlet with a remote switch is required for power to the whirlpool. Locate the remote switch in the coach's office with a clear view of the whirlpool, or under lockable cover a minimum distance of 6'0 " from the whirlpool.
i.14) Provide ETV outlets in all instructional spaces including special education, library, gymnasium, music room, art room, band room, and cafeteria. ETV head-end equipment should be located in the library Audio-visual Storage, or its equivalent, with appropriate means to distribute video presentations throughout the building.
i.15) If HID lighting fixtures are used in any instructional space, the lamps shall be limited to 250 watt maximum with a quartz re-strike on a dimmer for each fixture.

PART 4. EXISTING BUILDINGS: Existing buildings remodeled for instructional purposes shall insofar as practical, meet the requirements of new spaces that would be used for the same purposes. The proposed net area of any assignable space must meet or exceed $67 \%$ of the Minimum Unit Area required for that space by this regulation. Limited exemptions to this requirement shall be approved by the Director of the Division of Facilities Management prior to the issuance of the approval to advertise for bids for the project.

PART 5. TEMPORARY OR SUPPLEMENTAL UNITS: The following minimum standards relate to the provision of emergency classrooms and temporary instructional units.
a. Relocatable classrooms which can be moved and assembled into instructional units on the school site shall be approved in writing on a year to year basis subject to the following:
a.1) The minimum floor area of a relocatable classroom shall be as required in permanent school building construction except that temporary units less than twenty-two (22) feet wide may be approved for use when new construction is planned to eliminate the use of the units within a two (2) year period of time. Approval shall allow these units to remain on the site for no more than twenty-four (24) months. The approval shall be granted only after an on-site visit by a Department of Education employee to determine the adequacy of the site.
a.2) The minimum heating, artificial lighting and ventilation standards shall be the same as for permanent construction.
a.3) The minimum ceiling height shall be seven (7) feet and ten (10) inches at the lowest point.
a.4) The minimum floor load shall be fifty (50) pounds per square foot live load.
a.5) All units shall be securely anchored to withstand a wind of seventy-five (75) miles per hour.
a.6) Steps with landings and handrails shall be provided for all exit doors. A ramp serving at least one (1) entry shall be provided.
a.7) Each classroom shall be provided with two (2) doors, remote from each other.
a.8) Chalkboard and tackboard, a minimum of forty-eight (48) square feet of each, shall be provided.
b. A school district may acquire a relocatable unit using either of the two methods listed:
b.1) A Kentucky registered architect or engineer may be hired to prepare plans and specifications for bidding purposes. Such plans shall be reviewed and approved by the Kentucky Department of Education prior to advertisement for bids.
b.2) The local board may develop performance specifications for bidding purposes. Performance specifications shall be approved by the Kentucky Department of Education and provide the following:
b.2.1) A plot plan of the existing school which shows all boundaries, buildings, walks, drives, and other developments and the proposed location of the unit. When applicable, electrical service lines to the units and water and sewage lines shall be shown on the plot plan.
b.2.2) Specifications that each bidder shall provide units that meet all of the administrative regulations of the State Board for Elementary and Secondary Education, and applicable administrative regulations of the Department of Housing, Buildings and Construction. The specifications shall also require each bidder to submit with the bid, a copy of the plans and specifications bearing the seal of a Kentucky registered architect, of the unit being bid. The specifications shall require the successful bidder to submit a copy of the plans, bearing the seal of a Kentucky registered architect or engineer, to the Department of Housing, Buildings and Construction and Department of Education.
c. The successful contractor shall furnish the local board of education certification of completion on forms provided by the State Board for Elementary and Secondary Education as part of 702 KAR 4:160 and incorporated here by reference. The local board of education shall approve the form and forward to the chief state school officer a completed copy or a letter stating why the board does not agree that the construction is substantially completed. The chief state school officer or his designee shall make a final inspection of the project following receipt of the required State Board for Elementary and Secondary Education form.
d.) Following the final inspection, a written statement of completion or a list of items to be completed, shall be given to the local board of education with a copy to the contractor. Written authorization for full payment of the contract shall be given when the project is completed in accord with the plans and specifications.

PART 6. WAIVERS: The chief state school officer shall be authorized to waive any of the foregoing requirements upon the written request (by Board Order submitted by the local board) for good cause, provided it is shown in writing that such a waiver does not constitute a violation of any other agency having jurisdiction.

