



STEAM K-8



Little Diversified

FACILITY PROGRAM

K-8 SCHOOLS



Charlotte East Language Academy



Morris Berg Architects

06 Sept 2023

LIST OF REVISIONS

See Appendix

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CMS K-8 SCHOOL PROGRAM OF SPACES - 54 CLASSROOMS

9/6/2023

SPACE	QTY	CMS SF	TOTAL SF	SPACE	QTY	CMS SF	TOTAL SF
GENERAL CLASSROOMS				PHYSICAL EDUCATION			
CLASSROOMS - K-1 (See Note 1)	12	1000	12000	MULTIPURPOSE ROOM	1	4,900	4,900
CLASSROOMS - 2-5	20	800	16000	MULTIPURP. STORAGE	1	350	350
CLASSROOMS - 6-8	12	800	9600	MULTIPURP. CHAIR STOR	1	300	300
SCIENCE CLASSROOMS	3	1000	3000	MULTIPURP. PLATFORM	1	850	850
SUBTOTAL	47		40,600	GYM	1	10,000	10,000
SUPPORT SPACES				GYM P.E. STORAGE	1	700	700
SCIENCE PREP	1	250	250	BOYS DRESSING ROOM	1	800	800
RESOURCE ROOM	4	450	1,800	GIRLS DRESSING ROOM	1	800	800
TEAM AREA	2	500	1,000	TEACHER OFFICE	2	150	300
K-1 TOILETS	14	50	700	STAFF SHOWER / TOILET	2	75	150
TUTOR ROOMS	3	100	300	LAUNDRY	1	150	150
FLEX USE ROOM	1	250	250	ATHLETICS STORAGE	1	300	300
BOOK STORAGE	1	400	400	SUBTOTAL			19,600
MODIFIED RESTROOM	1	150	150	ADMINISTRATION			
WELLNESS ROOM	1	200	200	RECEPT. / SECRETARIAL	1	500	500
SUBTOTAL			5,050	PRINCIPAL OFFICE	1	200	200
ELECTIVE CLASSROOMS				ASSISTANT PRINCIPAL	3	150	450
TECH ED (CTE)	2	900	1800	LARGE CONFERENCE	1	350	350
CTE OFFICE	1	150	150	SMALL CONFERENCE	1	200	200
CTE STORAGE	1	200	200	COUNSELOR OFFICE	2	150	300
VISUAL ARTS CLRM. - ES	1	1500	1500	COUNSELOR CONF.	1	200	200
VISUAL ARTS STORAGE - ES	1	250	250	WORKROOM	1	500	500
VISUAL ARTS CLRM. - MS	1	1500	1500	FACULTY BREAKROOM	1	500	500
VISUAL ARTS STORAGE - MS	1	250	250	ITINERANT STAFF OFFICE	1	400	400
KILN ROOM	1	95	95	FINANCIAL SECR. OFFICE	1	150	150
MUSIC / CHORAL CLRM. - ES	1	1200	1200	STAFF TOILETS	2	65	130
MUSIC / CHORAL STOR. - ES	1	200	200	HEALTH ROOM	1	250	250
CHORAL / INSTRUM. MUSIC	1	1200	1200	HEALTH ROOM TOILET	1	65	65
CHORAL STORAGE	1	150	150	STORAGE	1	250	250
BAND / PERCUSSION STORAGE	1	200	200	STUDENT RECORDS	1	100	100
DANCE / THEATER ARTS	1	1700	1700	STUDENT SVCS. OFFICE	1	250	250
THEATER ARTS STORAGE	1	200	200	PARENT CENTER	1	250	250
DANCE STORAGE	1	150	150	SRO OFFICE	1	100	100
MUSIC LIBRARY / REPAIR	1	200	200	SUBTOTAL			5,145
SUBTOTAL			10,945	BUILDING SUPPORT			
MEDIA CENTER				MECHANICAL			3,900
MAIN USE ROOM	1	2,900	2,900	ELECTRICAL			1,100
EQUIPMENT STORAGE	1	200	200	GROUP RESTROOMS	10	295	2,950
MAKERSPACE	1	750	750	STAFF TOILETS	6	55	330
TV STUDIO	1	250	250	CUSTODIAL			900
OFFICE	1	150	150	IT (IDF AND MDF)			500
WORKROOM	1	200	200	SUBTOTAL			9,680
SUBTOTAL			4,450	BUILDING SUBTOTAL			104,385
CAFETERIA / NUTRITION				NON ASSIGNABLE			
DINING	1	4,500	4,500	CIRCULATION			
SERVING	1	750	750	WALLS			
KITCHEN	1	3,400	3,400	% OF BUILDING SUBTOTAL	34%		35,490
FOOD SERVICE OFFICE	1	125	125	TOTAL SQUARE FOOTAGE			
STAFF TOILET	1	65	65				139,875
STAFF LOCKER	1	75	75	INDICATES ACTUAL CLASSROOM			
SUBTOTAL			8,915				

Note 1: Two of the (12) K-1 Classrooms are to be licensed Pre-K Classrooms.

CMS K-8 SCHOOL PROGRAM OF SPACES - 63 CLASSROOMS

9/6/2023

SPACE	QTY	CMS SF	TOTAL SF
GENERAL CLASSROOMS			
CLASSROOMS - K-1 (See Note 1)	14	1000	14000
CLASSROOMS - 2-5	24	800	19200
CLASSROOMS - 6-8	15	800	12000
SCIENCE CLASSROOMS	3	1000	3000
SUBTOTAL	56		48,200

SUPPORT SPACES			
SCIENCE PREP	1	250	250
RESOURCE ROOM	4	450	1,800
TEAM AREA	2	500	1,000
K-1 TOILETS	14	50	700
TUTOR ROOMS	3	100	300
FLEX USE ROOM	1	250	250
BOOK STORAGE	1	400	400
MODIFIED RESTROOM	1	150	150
WELLNESS ROOM	1	200	200
SUBTOTAL			5,050

ELECTIVE CLASSROOMS			
TECH ED (CTE)	2	900	1800
CTE OFFICE	1	150	150
CTE STORAGE	1	200	200
VISUAL ARTS CLRM. - ES	1	1500	1500
VISUAL ARTS STORAGE - ES	1	250	250
VISUAL ARTS CLRM. - MS	1	1500	1500
VISUAL ARTS STORAGE - MS	1	250	250
KILN ROOM	1	95	95
MUSIC / CHORAL CLRM. - ES	1	1200	1200
MUSIC / CHORAL STOR. - ES	1	200	200
CHORAL / INSTRUM. MUSIC	1	1200	1200
CHORAL STORAGE	1	150	150
BAND / PERCUSSION STORAGE	1	200	200
DANCE / THEATER ARTS	1	1700	1700
THEATER ARTS STORAGE	1	200	200
DANCE STORAGE	1	150	150
MUSIC LIBRARY / REPAIR	1	200	200
SUBTOTAL			10,945

MEDIA CENTER			
MAIN USE ROOM	1	2,900	2,900
EQUIPMENT STORAGE	1	200	200
MAKERSPACE	1	750	750
TV STUDIO	1	250	250
OFFICE	1	150	150
WORKROOM	1	200	200
SUBTOTAL			4,450

CAFETERIA / NUTRITION			
DINING	1	4,500	4,500
SERVING	1	750	750
KITCHEN	1	3,400	3,400
FOOD SERVICE OFFICE	1	125	125
STAFF TOILET	1	65	65
STAFF LOCKER	1	75	75
SUBTOTAL			8,915

PHYSICAL EDUCATION			
MULTIPURPOSE ROOM	1	4,900	4,900
MULTIPURP. STORAGE	1	350	350
MULTIPURP. CHAIR STOR	1	300	300
MULTIPURP. PLATFORM	1	850	850
GYM	1	10,000	10,000
GYM P.E. STORAGE	1	700	700
BOYS DRESSING ROOM	1	800	800
GIRLS DRESSING ROOM	1	800	800
TEACHER OFFICE	2	150	300
STAFF SHOWER / TOILET	2	75	150
LAUNDRY	1	150	150
ATHLETICS STORAGE	1	300	300
SUBTOTAL			19,600

ADMINISTRATION			
RECEPT. / SECRETARIAL	1	500	500
PRINCIPAL OFFICE	1	200	200
ASSISTANT PRINCIPAL	3	150	450
LARGE CONFERENCE	1	350	350
SMALL CONFERENCE	1	200	200
COUNSELOR OFFICE	2	150	300
COUNSELOR CONF.	1	200	200
WORKROOM	1	500	500
FACULTY BREAKROOM	1	500	500
ITINERANT STAFF OFFICE	1	400	400
FINANCIAL SECR. OFFICE	1	150	150
STAFF TOILETS	2	65	130
HEALTH ROOM	1	250	250
HEALTH ROOM TOILET	1	65	65
STORAGE	1	250	250
STUDENT RECORDS	1	100	100
STUDENT SVCS. OFFICE	1	250	250
PARENT CENTER	1	250	250
SRO OFFICE	1	100	100
SUBTOTAL			5,145

BUILDING SUPPORT			
MECHANICAL			3,900
ELECTRICAL			1,100
GROUP RESTROOMS	10	295	2,950
STAFF TOILETS	6	55	330
CUSTODIAL			900
IT (IDF AND MDF)			500
SUBTOTAL			9,680
BUILDING SUBTOTAL			111,985

NON ASSIGNABLE			
CIRCULATION			
WALLS			
% OF BUILDING SUBTOTAL	34%		38,070

TOTAL SQUARE FOOTAGE			150,055
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INDICATES ACTUAL CLASSROOM

Note 1: Two of the (12) K-1 Classrooms are to be licensed Pre-K Classrooms.

PRE-KINDERGARTEN CLASSROOM

OBJECTIVES

- Cognitive, social, emotional and physical development are interrelated in young children, and all developmental areas must be addressed
- Each child is unique with an individual pattern of timing, growth and development
- Young children construct knowledge and understanding through their interactions with materials within their environment and through their interactions with adults and other children
- Children's learning moves from a concrete, personal understanding to conventional understandings through awareness, exploration, inquiry and utilization
- Children have a need to make sense of their experiences and are motivated to learn by their interests and natural curiosity
- Provides an environment that encourages learning through exploration and discovery
- Recognizes that children differ in their rates of development, backgrounds, and experiences
- Establishes a partnership between parents and school staff that supports children throughout their total school experience
- Allows for the "basics" to be taught through children's own experiences, with materials in the classroom
- Respects play for its value as an appropriate learning medium for children of this age
- Is based on research which indicates how young children learn



CAPACITY

1 teacher 1 assistant

ACTIVITIES

- Large and small group work
- Independent work
- Choice periods – 12 centers:
 - Library
 - Dramatic play
 - Writing
 - Listening
 - Sand and water
 - Mathematics
 - Computers
 - Science
 - Art
 - Manipulative
 - Blocks
 - Music
- Active exploration and interaction with physical environment
- Learning activities and materials primarily involve concrete, real experiences relevant to the lives of children

DESIGN CONSIDERATION

- Classroom floor plan should allow large group activity as well as learning centers for specific activities
- Provide direct access to an exterior enclosed play yard and garden area– extending classroom outside

PHYSICAL REQUIREMENTS

Architectural Criteria

- Provide adjacent exterior, fenced play area. Fence to be 48" minimum height with non-locking gate latches. Desired exterior elements include covered play space, and both hardscape play area and "soft" play area
- Floor: Provide VCT
- Ceiling height should be 10' minimum
- Ceiling: Provide acoustical tile
- Windows: Provide sill height 24"-26" AFF with 1" mini-blinds typical
- Doors: PK to have direct access to outdoors. Interior doors to corridors are to include a 3" wide vision panel. Walls: Provide painted gypsum wallboard, pre-cast concrete or CMU
- Account for a location of small refrigerator within the school

Mechanical Criteria

- Individual (single WC) toilet room at each classroom with floor drain and lavatory within individual toilet room – hot (tempered) and cold water to be provided
- Provide 24" base cabinet with countertop and sink in classroom w/hot (tempered) and cold water
- Provide plaster trap at classroom sink
- Provide CO monitor in each classroom
- Provide HVAC wall temperature sensor in each classroom

Electrical Criteria

- Provide Teaching Wall per detail in A/E Guide.
- Provide duplex outlets with covers every 8' on center
- Provide switched controls to provide multiple levels of lighting from ceiling fixtures— One switch for inboard lamps at each fixture, a second switch for outboard lamps at each fixture, both located near the classroom entry door off the corridor. Provide a third switch to control the single row of light fixtures nearest the Teaching Wall. Third switch to be located near the Teaching Wall.
- Provide natural light in compliance with state kindergarten facility
- Provide intercom/phone with volume control and privacy feature
- Provide computer network drops and power outlets per A/E Guide appendix
- Provide all outlets for computers on separate circuit

Furniture and Fixtures

- Provide mirror 3' wide x 5' high near classroom wet area for viewing by students
- Provide markerboards and tackboards at Teaching Wall per detail in A/E Guide
- Tack strips above marker board should accommodate 4 map/chart holders, 4 hooks, and base for 2 flag holders
- Provide two 48"x84" high lockable storage cabinets
- 16' base cabinets with sink to be a mix of drawers, closed, lockable, and open shelf storage units.
- Provide thirty open-faced individual cubbies 12" wide x 12" deep. Total height of cabinet 60"
- Provide wall cabinet 84"-72" high x 18" deep to 22" deep x 32" wide to 36" wide w/lock and adjustable shelving
- Provide paper cabinet 5 shelves to hold 24" x 36" paper
- Provide teacher coat closet w/lock 12"-18" wide x 18"-22" deep x 72"-84" high
- Provide area rugs for floor play

GENERAL CLASSROOM - GRADES K-1ST

OBJECTIVES

To provide Kindergarten through First Grade students and educators an environment that is inviting, stimulating, and student centered. The program should accommodate a variety of activities that provide learning experiences that are interactive, experiential, and holistic. It should stimulate intellectual, social, and emotional growth enabling students to become effective, responsible citizens.



CAPACITY

1 teacher

1 teacher assistant

ACTIVITIES

- Large and Small group instruction to include reading, writing, math and science, as well as technology, and multi-media exploration, and student performances.
- Integration of all core curriculum subjects
- Encouragement through independence and personal responsibility is highlighted within flexible learning areas, display and board space, as well as student storage areas

DESIGN CONSIDERATIONS

- K-1 classrooms should be easily accessible from the bus parking area/paved play space, and parent pick-up/drop-off area as well as administration offices and cafeteria, media center, multi-purpose room/gym, art and music classrooms.
- K-1 classrooms must be located on a level of exterior exit discharge and should be grouped together. Each classroom is to have a direct access to the exterior of the building and an adjacent play space that includes an area of non-vegetated earth for manipulation in various ways

PHYSICAL REQUIREMENTS

Architectural Criteria

- Floor: Provide VCT or rolled rubber with heat welded seams
- Ceiling height should be 10' minimum
- Ceiling: Provide acoustical tile
- Windows: Provide sill height 24"-26" AFF with 1" mini-blinds typical
- Doors: K-1 to have direct access to outdoors. Interior doors to corridors are to include a 3" wide vision panel.
- Walls: Provide painted gypsum wallboard, pre-cast concrete or CMU

Mechanical Criteria

- Individual (single WC) toilet room at each classroom with floor drain and lavatory within individual toilet room – hot (tempered) and cold water to be provided
- Provide 24" deep base cabinets with countertop and stainless steel sink in classroom w/hot (tempered) and cold water
- Provide plaster trap at classroom sink
- Provide CO monitor in each classroom
- Provide HVAC wall temperature sensor in each classroom

Electrical Criteria

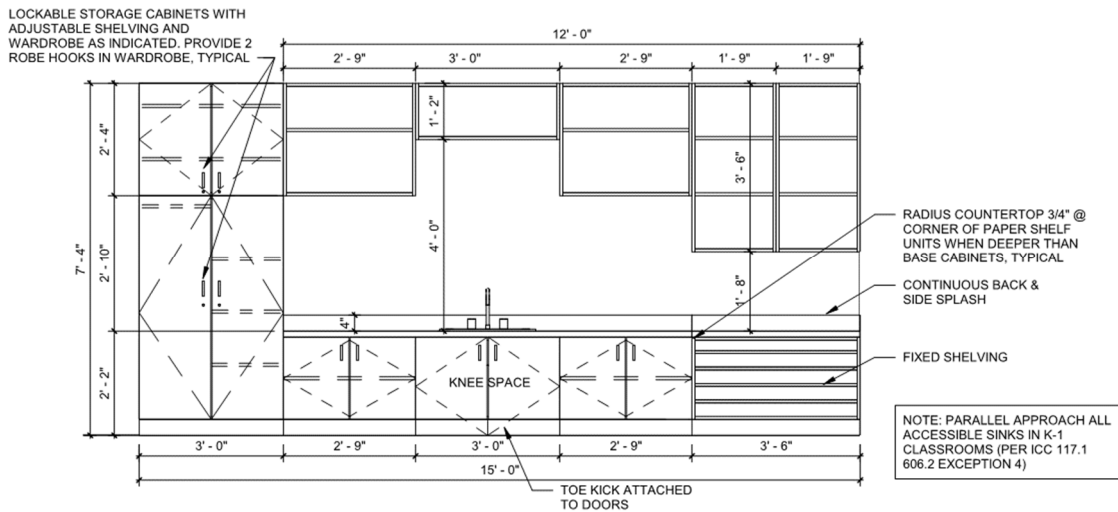
- Provide Teaching Wall per detail in A/E Guide.
- Provide duplex outlets with covers every 8' on center
- Provide switched controls to provide multiple levels of lighting from ceiling fixtures– One switch for inboard lamps at each fixture, a second switch for outboard lamps at each fixture, both located near the classroom entry door off the

corridor. Provide a third switch to control the single row of light fixtures nearest the Teaching Wall. Third switch to be located near the Teaching Wall.

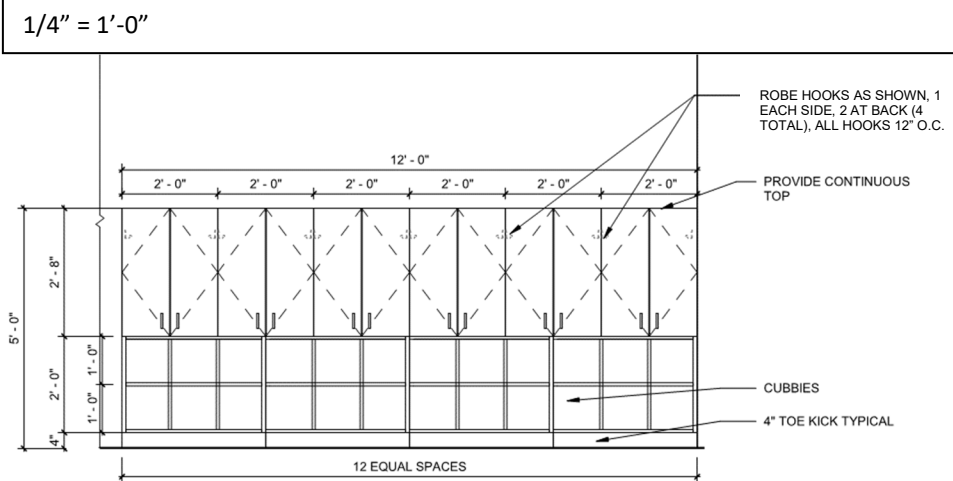
- Provide natural light in compliance with state kindergarten facility
- Provide intercom/phone with volume control and privacy feature
- Provide computer network drops and power outlets per A/E Guide appendix
- Provide all outlets for computers on separate circuit

Furniture, Fixtures and Equipment

- Provide markerboards and tackboards at Teaching Wall per detail in A/E Guide
- Provide built in base cabinets with plastic laminate countertop and stainless steel sink near toilet room
- Provide paper storage cabinet - 5 open shelves to hold 24" x 36" paper
- Provide teacher coat closet w/lock 36" wide x 24" deep x 88" high
- Provide wall cabinets with adjustable shelving
- Towel dispenser and liquid soap dispenser to be installed on wall above base cabinet near sink
- Provide enclosed wardrobe cabinets with a total of 30 (minimum) coat hooks spaced no closer than 12" o.c. Provide 24-26 (minimum) open-faced individual cubbies 12" wide x 12" high x 12" deep. Total height of wardrobe/cubbies cabinet 60".
- Provide one 4' x 8' tack board near each classroom door in the corridor –top of tack board to be 6'-0" AFF



CASEWORK ELEVATION - K-1 CLASS



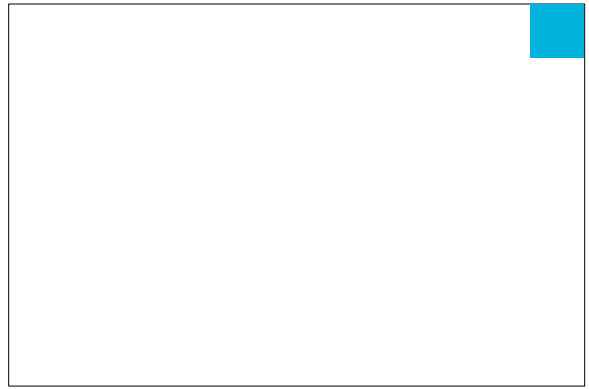
CASEWORK ELEVATION - CLASSROOM CUBBIES

1/4" = 1'-0"

GENERAL CLASSROOM - GRADES 2ND – 5TH

OBJECTIVES

To provide Second through Fifth grade students and educators an environment that is inviting, stimulating, and student centered. The program should accommodate a variety of activities that provide interactive learning experiences, experiential activity, and holistic learning. It should stimulate intellectual, social, and emotional growth enabling students to become effective, responsible citizens.



CAPACITY

1 teacher

1 teacher assistant

ACTIVITIES

- Large and Small group instruction to include reading, writing, math and science, as well as technology, and multi-media exploration, and student performances.
- Integration of all core curriculum subjects
- Encouragement through independence and personal responsibility is highlighted within flexible learning areas, display and board space, as well as student storage areas

DESIGN CONSIDERATIONS

- 2-5 grade classrooms should be easily accessible from the administration offices and cafeteria, media center, multi-purpose room/gym, art and music classrooms
- Tutor rooms should be located on main corridors and adjacent to and between classrooms to allow one tutor room to be shared by two classrooms

PHYSICAL REQUIREMENTS

Architectural Criteria

- Floor: Provide VCT or rolled rubber with heat welded seams
- Ceiling height should be 10' minimum
- Ceiling: Provide acoustical tile
- Windows: Provide sill height 24"-26" AFF with 1" mini-blinds typical
- Doors: Interior doors to corridors are to include a 3" wide vision panel.
- Walls: Provide painted gypsum wallboard, pre-cast concrete or CMU

Mechanical Criteria

- Provide 24" deep base cabinets with countertop and stainless steel sink in classroom w/hot (tempered) and cold water
- Provide CO monitor in each classroom
- Provide HVAC wall temperature sensor in each classroom

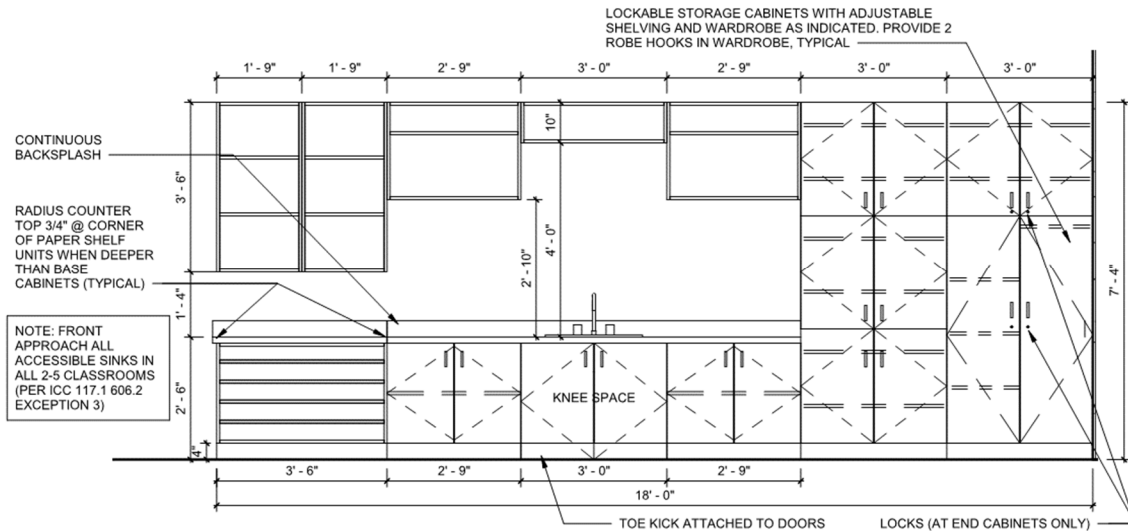
Electrical Criteria

- Provide Teaching Wall per detail in A/E Guide.
- Provide duplex outlets with covers every 8' on center
- Provide switched controls to provide multiple levels of lighting from ceiling fixtures– One switch for inboard lamps at each fixture, a second switch for outboard lamps at each fixture, both located near the classroom entry door off the corridor. Provide a third switch to control the single row of light fixtures nearest the Teaching Wall. Third switch to be located near the Teaching Wall.
- Provide intercom/phone with volume control and privacy feature
- Provide computer network drops and power outlets per A/E Guide appendix

- Provide all outlets for computers on separate circuit

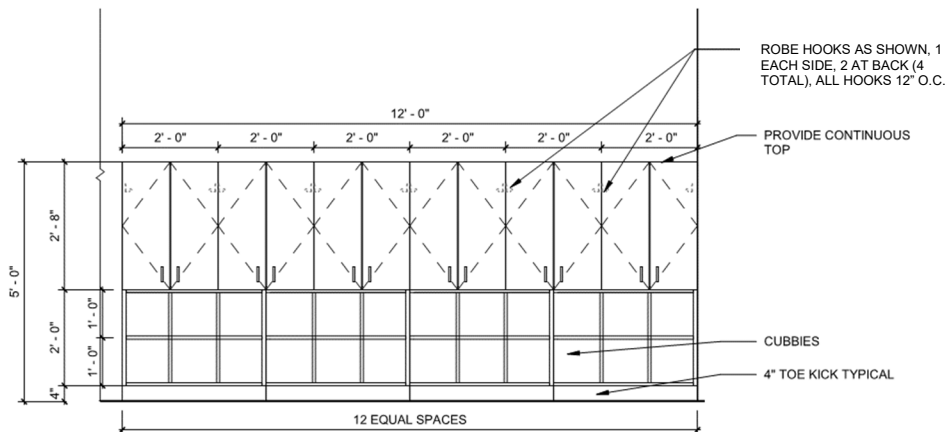
Furniture, Fixtures and Equipment

- Provide markerboards and tackboards at Teaching Wall per detail in A/E Guide
- Provide built-in base cabinets with plastic laminated countertop and stainless steel sink
- Provide paper storage cabinet - 5 open shelves to hold 24" x 36" paper
- Provide teacher coat closet w/lock 36" wide x 24" deep x 88" high
- Provide wall cabinets with adjustable shelving
- Towel dispenser and liquid soap dispenser to be installed on wall above base cabinet near sink
- Provide enclosed wardrobe cabinets with a total of 30 (minimum) coat hooks spaced no closer than 12" o.c. Provide 24-26 (minimum) open-faced individual cubbies 12" wide x 12" high x 12" deep. Total height of wardrobe/cubbies cabinet 60".
- Provide one 4' x 8' tack board in hallway near the classroom door. Top of tack board to be at 6' AFF.



CASEWORK ELEVATION - 2-5 CLASSROOMS

1/4" = 1'-0"



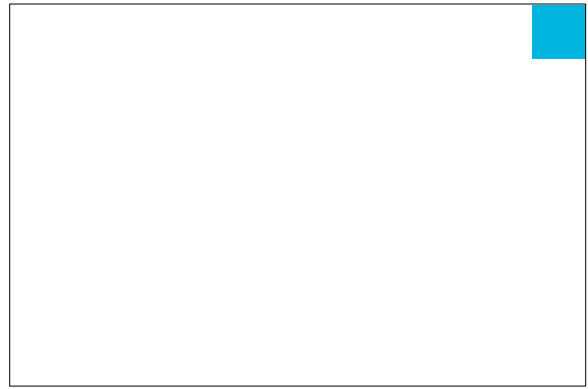
CASEWORK ELEVATION - CLASSROOM CUBBIES

1/4" = 1'-0"

GENERAL CLASSROOM - GRADES 6TH – 8TH

OBJECTIVES:

To provide General Curriculum Classrooms at the middle school level intended to function as areas of instruction for mathematics, communication skills, social studies and science. Each space will be designed to accommodate all three disciplines to provide for the greatest amount of flexibility in scheduling and team clustering.



The Mathematics Curriculum should take advantage of the expanding Mathematical capabilities of middle school students to include more complex problem situations involving topics such as probability, statistics, geometry, and rational numbers. Situations and approaches should build on the mathematical language students are acquiring, and help them to develop a variety of problem-solving strategies and approaches. Although concrete and empirical situations remain a focus throughout these grades, a balance should be struck between problems that apply mathematics to the real world and problems that arise from the investigation of mathematical ideas. Finally, the mathematics curriculum should engage students in some problems that demand extended effort to solve. Some might be group projects that require students to use available technology and to engage in cooperative problem solving discussions.

Communication Curriculum is an integrated process that emphasizes the wholeness of language and is most effectively practiced in a language-rich, nurturing environment that focuses on inquiry, interaction, and discovery. Communication involves listening, speaking, reading, viewing, writing, and study skills. It addresses the content of literature and language. Communication is fluid and dynamic. It consists of sending real messages from real speakers. Effective communication requires thinking and responding personally, critically, and creatively.

The Social Studies Curriculum for the middle school grades includes cultural geography courses focusing on Europe, nations of the former Soviet Union, Africa, Asia, and the Pacific Rim. A second emphasis is on the geography, economics, citizenship, and government of the United States with attention to North Carolina. The course emphasizes research of related issues and subsequent communication of research findings. Current events are frequently used as a point of reference for historical issues or a specific topic of inquiry.

CAPACITY:

1 teacher 29 students

ACTIVITIES:

- Actively involving students individually and in groups in exploring, conjecturing, analyzing, and applying mathematics, communications skills, and social studies in a real world context
- Using appropriate technology for computation, exploration, and writing
- Being a facilitator of learning
- Assessing learning as an integral part of instruction
- Conducting independent research for projects
- Presenting individual and small group products
- Using collaborative learning structures
- Creating inter-disciplinary projects
- Conferencing in individual and small group settings
- Integrating curricula to produce uniquely different results for synthesis or evaluation by peers
- Peer tutoring

DESIGN CONSIDERATIONS:

- Core curriculum classrooms should be clustered together with team area, conference room, resource classroom, assistant principal's office and other specialty classrooms of each grade level.

PHYSICAL REQUIREMENTS:

Architectural Criteria

- Ceiling height should be 10' minimum
- Each classroom should be free from auditory distraction.
- Acoustic panel ceiling
- Provide 1" mini-blinds to obscure vision during "Lockdown" procedures and/or to darken the room to provide visual clarity for projection systems.
- Doors -Provide 3" wide vision panel in interior door to corridor.
- Floor Finishes - VCT or Rolled rubber, heat welded or VCTT
- Three 4' high x 5' long markerboards with continuous map rail over each board and 4' x 4' tack board at each end for teaching wall
- Walls - Painted CMU, Painted Gypsum Board, or Painted Pre Cast Concrete

Mechanical Criteria

- HVAC wall temperature sensor in each classroom

Electrical Criteria

- Duplex outlets approximately every 6' on center
- Lighting - Switched controls to provide multiple levels of lighting from ceiling fixtures— One switch for inboard lamps at each fixture, a second switch for outboard lamps at each fixture, both located near the classroom entry door off the corridor. Provide a third switch to control the single row of light fixtures nearest the Computer Projection System. Third switch to be located near the teaching wall.
- Intercom/Phone with privacy feature
- Two computer network drops with adjacent quad power outlets on teaching wall
- Two computer network drops with adjacent quad power outlets on adjacent wall
- Infrastructure for Computer Projection System
- All outlets for computers on separate circuit

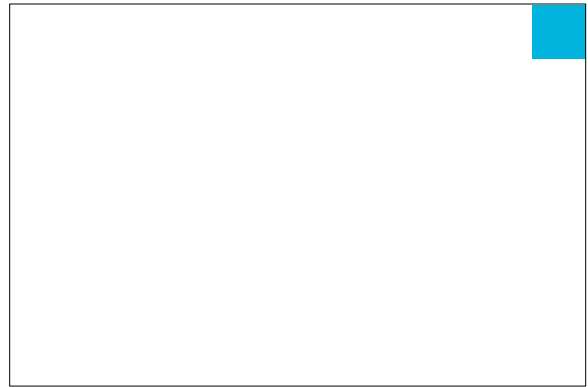
Furniture, Fixtures and Equipment

- Provide tack strip 12" above Computer Projection System
- Provide one 4' x 6' tack board in hallway near the classroom door. Top of tack board to be at 6' AFF.
- 1" mini-blinds for all windows, typical

SCIENCE CLASSROOM AND PREP ROOM

OBJECTIVES

To provide a Science Curriculum for Charlotte-Mecklenburg Schools-based upon the philosophy that science is both process and product. The process results in product knowledge and its application in daily life. The way knowledge is obtained, presented and applied is as crucial as the knowledge itself. The curriculum is founded on five major goal statements: the nature of science; process skills; manipulative skills, attitudes and application; and science concepts.



Middle School is a transitional time for students marked by physical, emotional and social changes. Content is presented from a student-centered perspective placing an emphasis on inquiry, exploration science and based on the North Carolina Standard Course of Study.

In order to produce a more scientifically literate member of society, student experiences must encompass the following objectives:

- Students develop a broad awareness of the nature of science by examining scientific concepts and practicing scientific methods.
- Students acquire process skills through scientific inquiry and by being involved in experiential learning activities.
- Students experience and learn manipulative skills of increasing complexity, accuracy and precision by manipulating various types of equipment, substances and data processing techniques.

CAPACITY

26 students

1 teacher

1 teacher assistant

ACTIVITIES

- Allow students to engage in inquiry, experiential-based activities
- Involve the manipulation of science equipment (e.g., microscopes, balances)
- Show a relevance and application to everyday life
- Involve integration of science, society and technology
- Enhance the student's ability in communication skills
- Foster higher-order and critical thinking skills
- Incorporate a variety of instructional strategies (e.g., cooperative groups, whole class, lecture, discussion, mini-lectures, role-playing, science fair preparation/presentations, independent study)
- Address student learning styles (e.g., auditory, visual, kinesthetic)
- Allow the teacher to become a "facilitator of learning".
- Include the use of technology in learning (e.g., laser video, telecommunications, computer interfacing).

DESIGN CONSIDERATIONS

- Must meet the NCDPI safety guidelines for science classrooms

PHYSICAL REQUIREMENTS

Architectural Criteria

- Science labs should be clustered with the core curriculum classrooms of each grade level to accommodate "teaming" of teachers.
- Science labs should be designed to foster a multi-tasking environment ("wet lab", video, multi-media, computer and research areas).

- One prep room shared between two science labs. The prep room should be adjacent to both labs and be accessible through the two labs it serves. It should include exhaust/ventilation system hot and cold running water, lockable storage continuous above and below the counter. A chemical storage cabinet will be located in this space, as well as lockable microscope cabinets. Size of microscopes is base of 16" long x 7" wide, and stand 12" high (confirm with current curriculum).
- Science labs must comply with federal and state safety regulations (e.g., safety equipment, eyewash, fire blanket, fire extinguisher).
- Two student lab tables should be provided. Moveable tables allow maximum flexibility.
- Provide classroom doors with a view panel
- Each science lab will have built-in cabinets with countertop along the wall. Do not use built in table stations.
- Provide base cabinets-along at least two walls for additional work and preparation space. Marker boards and tackable wall surfaces for maps and posters are also needed; allot space for apron storage, eye wash; and plan floor space for a demonstration table and equipment such as laboratory carts, animal or plant study center, and stream table.
- For specialized storage, include a storage cabinet with shelves and drawers of various sizes for science equipment such as skeletons, torsos, and microscopes. Size of microscopes is base of 16" long x 7" wide, and stand 12" high (confirm with current curriculum).
- One teacher demonstration desk (fixed); equipped with water (hot/cold), eyewash, two electrical outlets, one data drop, one upright rod assembly with two support rods
- Work surface material should be resistant to heat, water and chemicals. Stations should contain an assortment of drawers, shelves and 6 sinks per room.
- There should be continuous wall mounted cabinets above the perimeter lab stations.
- Prep rooms should be equipped with hot and cold water, continuous countertops along all available walls with lockable storage above and below the counter.
- Three 4' high x 5' long marker boards with continuous map rail over each board and 4' x 4' tack board at each end for teaching wall
- Computer Projection System
- Tack board (4'x8').
- 1" mini-blinds for windows.

Mechanical Criteria

- A large, deep sink with hot and cold water and 6 linear feet (1.8 meters) of adjacent counter space is needed for various purposes, such as cleaning large containers.
- Exhaust openings must be ventilated away from air intake openings.
- Student's science investigations and cleanup require five or six sinks with water outlets along perimeter countertops or peninsulas. The sinks should be at least 18" (46 centimeters) in each dimension.

Electrical Criteria

- Science labs should be cabled (electrical and data) for computers, intercom and infrastructure for Computer Projection System.
- Duplex receptacles centralized around group learning areas
- There should be one quadruplex electrical outlet located adjacent to each computer outlet. The computer outlets should be located in a manner to minimize conflicts with other science lab requirements such as HVAC, equipment, etc.

Furniture, Fixtures and Equipment

- Sturdy, movable two-student laboratory tables, at least 54" (137 centimeters) long

RESOURCE ROOM

OBJECTIVES

To provide an additional space for any activity that is conducted with less than a full classroom of students.

CAPACITY

1 teacher

DESIGN CONSIDERATIONS

Resource rooms should be integrated with grade level classroom areas.

PHYSICAL REQUIREMENTS

Architectural Criteria

- Floor: Provide VCT or rolled rubber with heat welded seams
- Ceiling height should be 9' minimum
- Ceiling: Provide acoustical tile
- Windows: Provide sill height 24"-26" AFF with 1" mini-blinds typical
- Doors: Interior doors to corridors are to include a 3" wide vision panel.
- Walls: Provide painted gypsum wallboard, pre-cast concrete or CMU

Mechanical Criteria

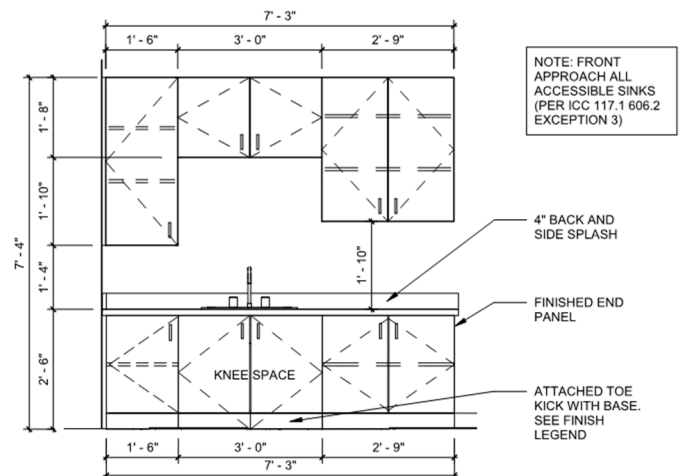
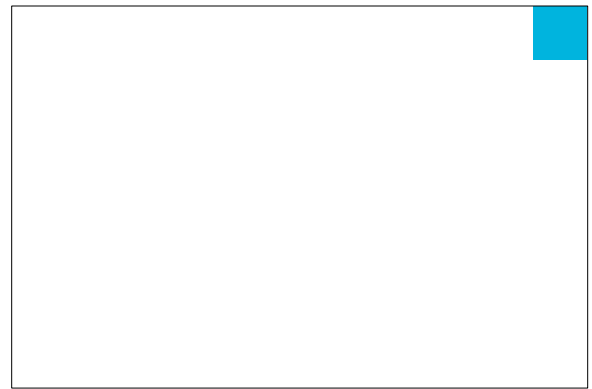
- Provide 24" deep base cabinets with countertop and stainless steel sink in classroom w/hot (tempered) and cold water
- Provide CO monitor in each classroom
- Provide HVAC wall temperature sensor in each classroom

Electrical Criteria

- Provide Teaching Wall per detail in A/E Guide.
- Provide duplex outlets with covers every 8' on center
- Provide intercom/phone with volume control and privacy feature
- Provide computer network drops and power outlets per A/E Guide appendix
- Provide all outlets for computers on separate circuit

Furniture, Fixtures and Equipment

- Provide markerboards and tackboards at Teaching Wall per detail in A/E Guide
- Provide built-in base cabinets with plastic laminated countertop and stainless steel sink
- Provide wall cabinets with adjustable shelving
- Towel dispenser and liquid soap dispenser to be installed on wall above base cabinet near sink
- Provide one 4' x 8' tack board in hallway near the classroom door. Top of tack board to be at 6' AFF.



CASEWORK - RESOURCE

1/4" = 1'-0"

TEAM AREA

OBJECTIVES

To provide a private area for the preparation of materials and planning of team issues and for the storage of supplies

CAPACITY

4-16 People

ACTIVITIES

Team teachers engaged in conferencing, scheduling and planning strategies for students and conferences with parents.

DESIGN CONSIDERATIONS

One team area located in close proximity to each grade level classroom wing

PHYSICAL REQUIREMENTS

Architectural Criteria

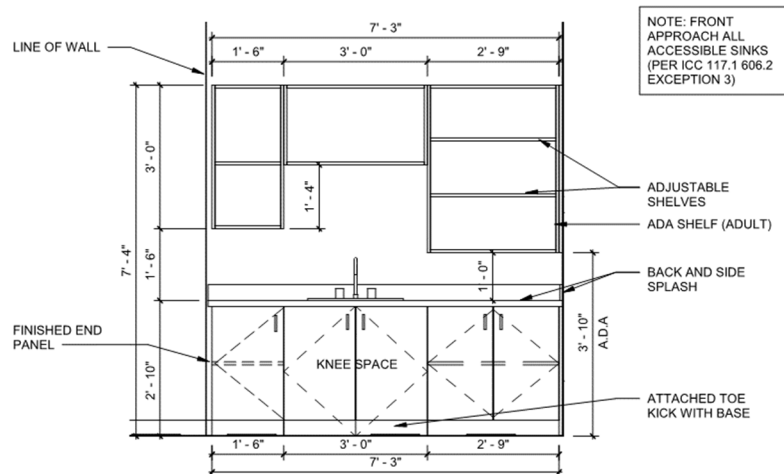
- Provide a designated area for a copier in the Team Area that is close to the door to be easily accessible from the corridor.
- Provide base and wall cabinets along one wall in the room with a sink. Cabinets to be a combination of closed, open shelf and drawer units.
- Provide 4'x8' markerboard.
- Provide 4'x8' tack board.
- Provide 1" mini-blinds for windows.
- Provide upright residential-size refrigerator (include in GC contract), coordinated with casework.

Electrical Criteria

- Provide network connection for wall-mounted promethean board.
- Provide duplex outlets with covers every 8' on center.
- Provide intercom/phone with volume control and privacy feature.
- Provide computer network drops and power outlets per A/E Guide appendix.
- Provide (2) network drops and power for copier.
- Provide power for refrigerator.

Furniture, Fixtures and Equipment

- Conference Table



CASEWORK ELEV. - TEAM

1/4" = 1'-0"

TUTOR ROOM

OBJECTIVES

To provide a flexible space for individual pull-out instruction, teacher planning, and parent observations, associated with the 2nd – 5th grade classrooms.

CAPACITY

Two to four persons

ACTIVITIES

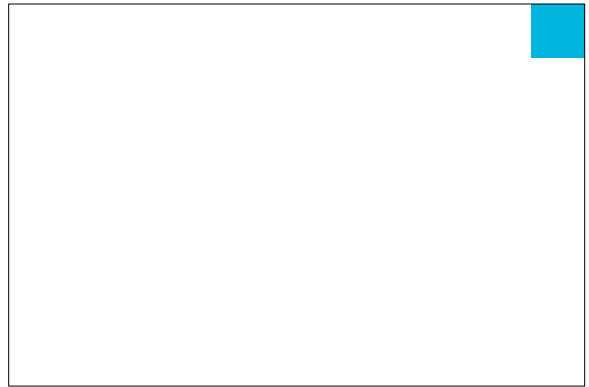
- Planning
- Individual instruction
- Minor student time out
- Parent observation of class activities
- Small group instruction
- Conferencing

DESIGN CONSIDERATIONS

Locate-tutor room between two classroom spaces to be shared by both

PHYSICAL REQUIREMENTS

- Provide one way glass vision panel between tutor room and each classroom
- Each vision panel to be equipped with 1" mini-blinds (on interior)
- Provide one computer outlet paired with a quad electrical outlet
- Provide intercom connection
- Provide duplex electrical outlets located around the room at 6' on center
- Provide carpeted floor
- Provide automatic motion sensors to control ceiling light fixture
- Provide 4'x4' markerboard



FLEX USE ROOM

OBJECTIVES

To provide a smaller flexible teaching space for the whole building. The Flex Use Room will provide classroom extension, itinerant activity space and small group pull-out ability. The actual use of the space will be coordinated among the grade level teachers.

CAPACITY

Varies

ACTIVITIES

- Small group instruction
- Teaching stations
- One-on-one pull out

PHYSICAL REQUIREMENTS

Architectural Criteria

- Floor: Provide VCT or rolled rubber with heat welded seams
- Ceiling height should be 9' minimum
- Ceiling: Provide acoustical tile
- Windows: Provide sill height 24"-26" AFF with 1" mini-blinds typical
- Doors: Interior doors to corridors are to include a 3" wide vision panel.
- Walls: Provide painted gypsum wallboard, pre-cast concrete or CMU

Mechanical Criteria

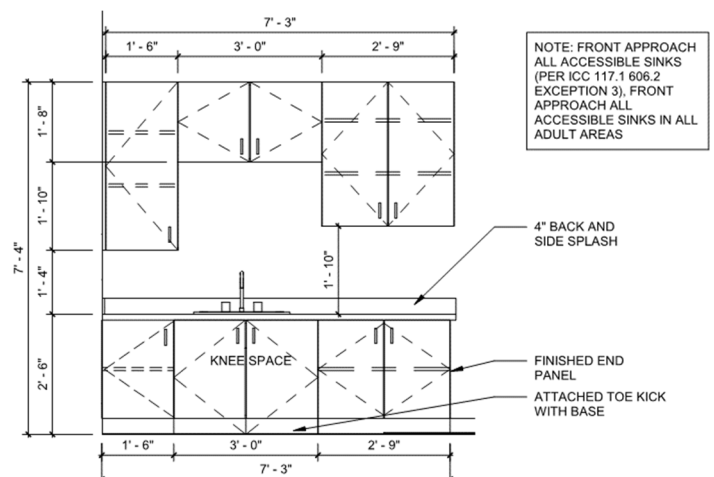
- Provide CO monitor in each classroom
- Provide HVAC wall temperature sensor in each classroom

Electrical Criteria

- Provide Teaching Wall per detail in A/E Guide.
- Provide computer network drops and power outlets per A/E Guide appendix
- Provide duplex outlets with covers every 6' on center
- Provide intercom/phone with volume control and privacy feature
- Provide computer network drops and power outlets per A/E Guide appendix
- Provide all outlets for computers on separate circuit

Furniture, Fixtures and Equipment

- Provide markerboards and tackboards at Teaching Wall per detail in A/E Guide
- Provide built-in base cabinets with plastic laminated countertop and stainless steel sink
- Provide wall cabinets with adjustable shelving
- Towel dispenser and liquid soap dispenser to be installed on wall above base cabinet near sink



CASEWORK - FLEX

1/4" = 1'-0"

EXCEPTIONAL CHILDREN'S CLASSROOM

OBJECTIVES

The purpose of Exceptional Children programs is to provide a continuum of services to students with disabilities ages 3-21 so that they may achieve to the maximum extent possible in the least restrictive environment appropriate to meet their needs. To that end, Exceptional Children programming promotes:

- Providing special education services to exceptional children in regular classrooms with non-disabled peers to the maximum extent possible, as appropriate.
- Providing a full continuum of programs and services to help all students achieve to their highest potential.
- Providing related services such as speech therapy and occupational and physical therapy in inclusive learning environments which support the individualized educational program.
- Providing modifications/adaptations to regular education curriculum
- Teaching students using varied learning styles.
- Creating individualized education programs for each identified student.

CAPACITY

1 teacher, 1 assistant, and possibly a physical therapist (The type of EC program will determine the number of students assigned.)

DESIGN CONSIDERATIONS

Exceptional Children programs should be integrated with the general classrooms.

PHYSICAL REQUIREMENTS

Refer to ***"Department of Public Instructional Exceptional Children Facilities Planner"*** for specific facility design requirements. This document is located in the A&E Guide.

Architectural Criteria

- Locate classrooms on main level, each connected to an adjacent modified restroom, or with modified restroom between two classrooms. If two restrooms provided, prefer to place one restroom with each EC classroom, dispersed into separate areas of building, including second floor.
- Locate classroom near Cafeteria, Media Center, Auditorium.
- Classrooms are to be standard size, 750 square feet. Classrooms are not special in design, and could be used for general population as well.
- Must accommodate students in wheelchairs. Students served could include autism, cerebral palsy, cognitive issues, physical disabilities, muscular dystrophy.
- Provide wireless access point.
- Refer to Teaching Wall detail in A/E Guide.
- Provide vinyl tile floor finish.

Mechanical Criteria

- Mechanical system needs to be quiet.

Electrical Criteria

- Lighting in classroom will need particular attention to color of light (blue). Consider programmable LEDs for color variation in classrooms.
- Provide cabling in ceiling for classroom camera.
- Provide cabling in ceiling for wireless access point.
- Provide intercom/phone with volume control and privacy feature.

MODIFIED RESTROOM

OBJECTIVES

To provide adequate space for toileting and clothes changing area for students needing personal hygiene care under the supervision of a designated adult. The modified restroom is not intended to meet the requirements or fixture counts for ADA accessible restrooms.

CAPACITY

1-3 people

RELATIONSHIPS

- Option 1 (preferred): Located ground level between (2) classrooms and near a main corridor, with corresponding doors to both classroom(s) and to the corridor required.
- Option 2: Located ground level adjacent to (1) classroom, with doors to the classroom and the corridor.
- If two restrooms provided, prefer to place one restroom with each EC classroom, dispersed into separate areas of building, including second floor.

ACTIVITIES

- Toileting, showering, bathing.
- Storage (first aid supplies, linens for beds).
- Teaching life skills.
- Inclusive practices.

PHYSICAL REQUIREMENTS:

Architectural Criteria

- Ceramic tile walls to ceiling, and slip resistant floor tile.
- Wall mounted swing up Grab Bars for toilet, Elementary/K8 30"-32" height, Middle/High 35"-36" height. Length 29 inches at both rails.
- Free rolling toilet paper holder (preferred location on wall mounted swing up grab bars).
- Paper towel and liquid soap dispensers at lavatory.
- Mirror located 1"-2" above sink.
- Soap Dispenser - locate 1"-2" from edge of sink with bottom edge 2" above sink.
- Paper Towel Dispenser – locate opposite soap dispenser 2"-3" from edge of sink with bottom 3"-4" above sink.
- Doors swinging outward to the adjacent classrooms. Door swinging inward from corridor.
- Locks at all doors (thumb turn on bathroom side and key on classroom/hallway side). Accessible lever handles. Locksets to be privacy set with Vacant/Occupied indicator.
- 30"x30" clear floor space to accommodate adaptive toilet seat storage.
- Signage to read "Modified Restroom" (no ADA accessible signage).
- Floor mounted storage cabinet with countertop, shelves and doors, 36" high x 36"-40" wide x 15" deep, with one section lockable for cleaning supplies, and wall cabinet above of matching width, with shelves and doors.
- Space for metal foot-activated trash can, 12 gallon size.
- No curtain required in restroom.

Mechanical Criteria

- Warm/cold water accessible shower w/ hand held shower head.



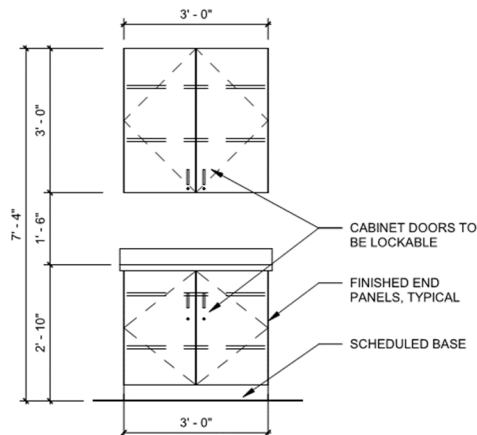
- Wall mounted sink, tempered/hot water and cold water, standard basin (not elongated) w/ gooseneck faucet with automatic meter for water flow, and 18" clear space both sides, Elementary/K8 29"-31" to rim of sink, Middle/High 34" to rim of sink, 27"-28" to underside of sink basin.
- Scald protection around exposed drainage piping.
- Toilet located center of the wall, Elementary K-1 grades 12"-13" seat height, 2-5 grades 13"-14" seat height, Middle/High 15"-17" seat height.
- Hose bib.
- Adequate ventilation to disperse odors.

Electrical Criteria

- Duplex outlets as required by code.
- Hospital grade electrical outlet 8"-10" AFF and outside the footprint of the changing table to prevent damage to the table and cord during high/low table operation.
- Intercom with volume control and privacy switch located near toilet, and ceiling mounted speaker.

Furniture, Fixtures and Equipment

- Space for Hoyer power lift 44"x42", with electric outlet 8"-10" above floor.
- Space for Changing Table (Performa X-Frame Hi-Lo Changing Table) 72"x25" for Middle/High, 60"x25" for Elementary. Adjustable height table.



CASEWORK ELEVATION - MODIFIED RESTROOM

1/4" = 1'-0"

HEALTH CLASSROOM

OBJECTIVES

To provide a teaching space to focus on physical health

CAPACITY

26 students 1 teacher 1 teacher assistant

ACTIVITIES

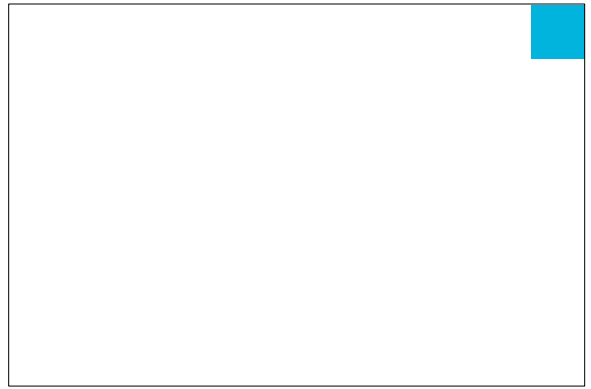
- Teaching students using varied learning styles

DESIGN CONSIDERATIONS

- Health Classroom shall be provided near the school's Gymnasium.

PHYSICAL REQUIREMENTS

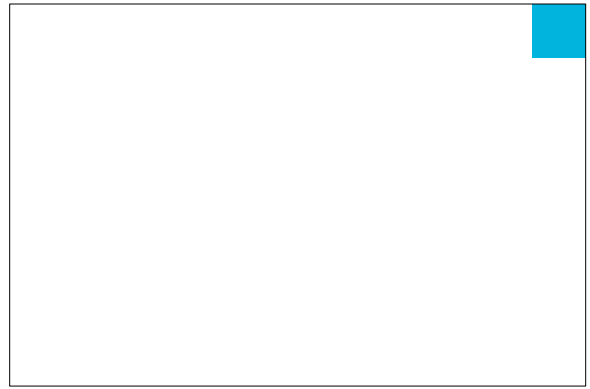
- No special facilities are required for Health classroom. It is instructional space and to have all elements, fit and finish of [General Classroom Grades Sixth - Eighth](#).



CAREER AND TECHNICAL EDUCATION CLASSROOM

OBJECTIVES

To provide a Career and Technical Education (CTE) program at the middle school level designed to focus on Business Education, Career Decisions, and to introduce students to basic technological principles.



Middle grades courses are designed to develop computer literacy by teaching students basic operation of a computer through the use of software applications. Curriculum competencies include the development of skills in the use of word processing, spreadsheet, database, desktop publishing, and telecommunications software. Additionally, the project-based curriculum is designed to help students explore math, science and technology with a focus on design and problem-solving, team decision making, information gathering, and engineering and technology based careers.

CAPACITY

26 students 1 teacher

ACTIVITIES

Teacher led and project-based learning to include:

- Computer Concepts
- Use of software applications
- Keying data with speed and accuracy
- Multi-media
- Telecommunications
- Information gathering/ analysis of data
- Design/problem solving
- Computer simulations
- Prototype development
- Robotics
- Family and Consumer Science

DESIGN CONSIDERATIONS

- Locate near other CTE course offerings.
- Storage for instructional, and project equipment and supplies

PHYSICAL REQUIREMENTS

Architectural Criteria

- Infrastructure for Computer Projection System
- Three 4' high x 5' long marker boards with continuous map rail over each board and 4' x 4' tack board at each end for teaching wall
- Additional Marker boards as space allows
- Bulletin board 4'x6'.
- VCT or sealed concrete floor.
- Base cabinets with sink and hot/cold water supply
- Lockable cabinet for equipment/supplies storage and overhead shelving
- Teacher console, to include work space for multi-media computer operation

- Overhead mounted AV screen
- Adjustable shelves in all casework
- Access to teacher workroom and office space outside classroom
- Storage room
- Shelves in storage room (18" deep - five shelves floor to ceiling).

Mechanical Criteria

- Individually controlled HVAC unit sized to accommodate students and equipment

Electrical Criteria

- Thirty-five data drops and associated duplex electrical outlets
- Surge protection for computer circuits
- Electrical outlets around perimeter at floor level and counter-top level
- Indirect glare control lighting - brightness control in addition to more than one light control - light control over projector area
- Dedicated electrical circuit for complete isolation from high load equipment producing power surges

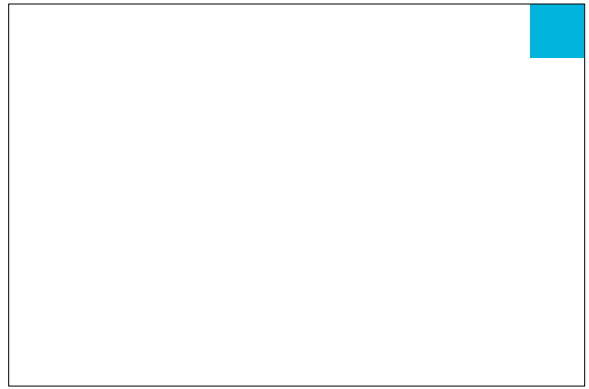
Furniture, Fixtures and Equipment

- Student project tables with adjustable height chairs
- Laser printers
- Computer tables with adjustable height chairs
- Printer stands (three)

VISUAL ARTS CLASSROOM

OBJECTIVES

To Provide a Visual Arts classroom for the 21st Century that is reflective of the changing world around us. Students are engaged in learning, both individually and collaboratively how to visually communicate their thoughts with a variety of tools and media. Visual Arts education includes studio production, art history, aesthetics and art criticism. The course of study follows National Art Standards, North Carolina Standard Course of Study and Framework for 21st Century Learning. The environment should lend itself to flexibility, creativity, and problem solving and contain current resources for students.



CAPACITY

1 teacher

35 students

ACTIVITIES

Students create art using skills developed in:

- Drawing
- Painting
- Printmaking
- Collage
- Textiles
- Ceramics
- Sculpture
- Fibers

Resources used include prints, texts, digital images, and internet resources.

DESIGN CONSIDERATIONS

- Students create art in both 2-D and 3-D format. Space is required to create art and space is required for necessary storage.
- Storage for art materials is paramount. Teachers must have ample storage for the wide variety of materials required to complete the Standard Course of Study. There are specific tools for each medium that need to be stored between each year's use.
- In addition to student work space, countertops, and storage, there must be floor space provided for the standard visual arts equipment. See list of equipment under Furniture, Fixtures and Equipment below.
- Visual resources, including prints, textbooks, digital images and websites are frequently used by the teacher and must be accessible for up-to-date instruction in visual arts. Storage for these items must also be available in the classroom.
- Visual Arts Education is available to all students in the school, which includes any exceptional students.
- Relation to entries: Location on the first floor at the end of a corridor is ideal for easy exit and noise isolation. An exit door located from the art room onto an exterior patio will be utilized if provided.
- Provide kiln room accessible from classroom.

PHYSICAL REQUIREMENTS

Architectural Criteria

- Floor: Provide VCT floor finish
- Ceiling height should be 10' minimum
- Ceiling: Provide acoustical tile
- Windows: Provide sill height 24"-26" AFF with 1" mini-blinds typical

- Doors: Interior doors to corridors are to include a 3" wide vision panel.
- Walls: Provide painted gypsum wallboard, pre-cast concrete or CMU
- Provide markerboards and tackboards at Teaching Wall per detail in A/E Guide.
- Provide built-in base cabinets with plastic laminated countertop and stainless steel sink.
- Provide wall cabinets with adjustable shelving.
- Towel dispenser and liquid soap dispenser to be installed on wall above base cabinet near sink.
- Provide cabinet with 15 sliding shelves.
- Provide 36" deep base cabinet with minimum 36" clear above for paper cutter located away from sink.
- Provide as much 24" deep shelving as possible in storage room.
- Provide space for one 2'x3' cart and one slab roller in the kiln room.
- Provide lockable display cases near front office.
- Provide open adjustable shelving above all base cabinets.
- Provide one lockable storage cabinet 42"W x 88"H x 26"D.
- Provide one 4' x 8' tack board in hallway near the classroom door. Top of tack board to be at 6' AFF.
- Provide 1 kiln.
- Provide space for Furniture, Fixtures and Equipment per FF&E list below.

Mechanical Criteria

- Provide stainless steel scullery sink 18-22" with sidebar and plaster trap
- Provide 1-2 stainless steel hand wash sinks with plaster traps
- Provide hot and cold water to all sinks
- Size ventilation in Kiln Room to discharge excessive heat created by the kiln

Electrical Criteria

- Provide Teaching Wall per detail in A/E Guide.
- Provide additional duplex outlets minimum of two per wall – coordinate mounting height casework
- Provide ability to dim lights
- Provide intercom/phone with volume control and privacy feature
- Provide computer network drops and power outlets per A/E Guide appendix
- Provide all outlets for computers on separate circuit

Furniture, Fixtures and Equipment – by Owner

Visual Arts Classroom

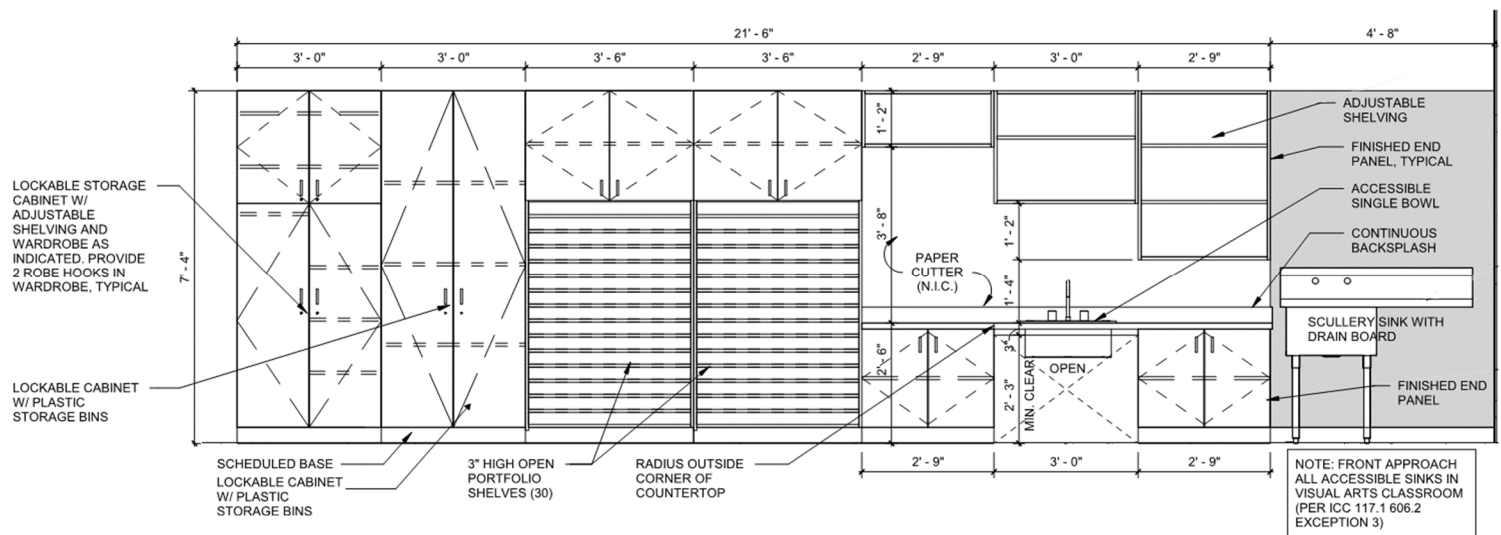
- Provide shelving for 180 textbooks at 1" each.
- Provide (9) art tables (four legs) 4 students, 48" x 60"
- Provide (1) Ingento heavy duty paper cutter, 30" x 30"
- Provide (1) heavy duty drying rack, all steel, 30"d x 36"w x 60"h
- Provide (1) slab roller, 27"w x 52"l x 40"h
- Provide (2) rack – stack (Art), 32"w x 24"d x 32"h

Kiln Room

- Provide (1) cart – Brent Ware, 35"w x 24"l x 60"h
- Provide (1) clay dolly, 24"w x 24"l x 36"h

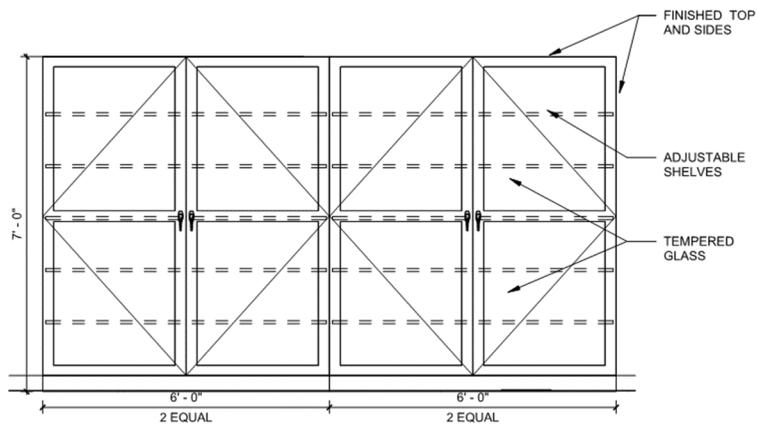
Art Storage Room

- Provide (1) Rubbermaid cart 24"w x 40"l x 31"h



CASEWORK ELEVATION - VISUAL ART RM

1/4" = 1'-0"



CASEWORK ELEVATION - LOCKABLE DISPLAY CASES

1/4" = 1'-0"

DANCE/THEATER ARTS CLASSROOM

OBJECTIVES

Dance

To provide a classroom where students who are engaged in middle school dance learn to communicate through movement, both individually and collaboratively. The course of study follows national Dance Standards, North Carolina Standard Course of Study, and Framework for 21st Century Learning. Dance Education is based on principals of modern and ballet dance. Emphasis is on developing technical, choreographic, and performance competencies. A flexible environment that lends itself to creativity and problem solving through movement is necessary for successful dance instruction. Because of the physical nature of this course, the classroom must provide for the SAFE, physical development of the students.

Theater Arts

To provide a Middle School Theatre Arts program where students begin to develop theatre literacy. Through active creation of theatre, students learn to understand artistic choices and to critique dramatic works. They play a larger role in the planning and evaluation of their work. Middle school students use drama as a means of confidently expressing themselves. With greater emphasis on reading, writing, and performing scripts, students begin to create plays based on peer issues, concerns and interests using improvisation and collaboration. Students are introduced to plays and experiences that reach beyond their communities to national, international, and historically representative themes. Curriculum objectives for the middle school Theatre Arts Program are found in the North Carolina Standard Course of Study.

CAPACITY

40 students 1 teacher

ACTIVITIES

Dance

Moving

- Large and small groups in place for floor work
- Small group choreography
- Performance rehearsals
- Informal performances

Listening

Viewing

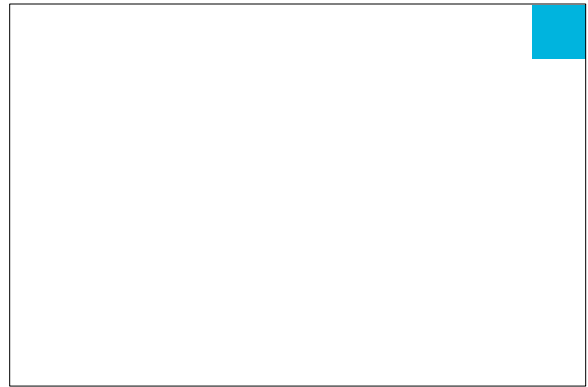
- Recordings
- Guest artists
- Dance groups

Lecture and demonstration

Theater Arts

- Students working in both large and small groups as well as on individual assignments
- Students participate in speaking, moving, creating, and evaluating. They demonstrate basic speech concepts and acting skills.
- Students planning and presenting dramatic situations and learning basic technical theater skills
- Creating and producing original scripts as well as acting and producing dramatic productions.
-

DESIGN CONSIDERATIONS



- Room should be near locker room for changing purposes
- Optimal location is near theater class in arts wing
- Should not be near media center or classrooms due to noise level
- Classroom should have easy access to the Multipurpose Room Platform
- Proper acoustical treatment and location in the building should allow for the activities of the theatre arts class involving sound.
- Acoustical treatment should provide a reverberation time of no more than 1.0 seconds.
- Lockable storage for Dance Classroom
- A secure lockable storage area is required for audio-visual equipment, set storage, costume storage, and incidental theater items.

PHYSICAL REQUIREMENTS

Architectural Criteria

- Floor should be either, semi-permanent sprung wood floor with Marley covering or Harlequin dance floor with cushioning and appropriate finish
- Acoustical properties to prevent disturbing other classes and echoing of music in room
- Absorber and diffuser panels should be utilized to provide appropriate acoustical properties and a quiet environment
- Walls should be clear of fixed furniture and casework
- Shatterproof mirrors should be mounted on at least one wall - Mirrors should be 6 feet in height, 2 inches from the floor, and should extend at least 24 feet long
- Two Dance Barres installed at 36" and at 42" AFF on the wall opposite the wall with the mirror
- One bulletin board
- Lockable Storage Room. Owner to provide current "Performing Arts Equipment List" for use in planning for storage needs of loose music equipment and instruments.
- Rack for storing hanging costumes in Storage Room
- Shelving for storing boxed costumes, props, and instruments in Storage Room
- Bookcase for storage of textbooks in Storage Room
- Storage for technology equipment (cameras, lighting, etc)
- Storage for miscellaneous resources
- Water fountains should be easily accessible
- Exterior windows should have 1" mini-blinds.
- Three 4' high x 5' long marker boards with continuous map rail over each board and 4' x 4' tack board at each end for teaching wall
- Located near dressing rooms

Mechanical Criteria

- Individual heat and air conditioning control
- Physical nature of dance activities and age of students should be considered when calculating the fresh air ventilation rate
- Quiet air handling system should be specified
- Fan control to ventilate odors from the room

Electrical Criteria

- LED lights recessed in the ceiling throughout the room
- Ability to dim lights
- Two computer network drops with adjacent quad power outlets on teaching wall
- Two computer network drops with adjacent quad power outlets on opposite wall
- Infrastructure for Computer Projection System

Furniture, Fixtures and Equipment

- A portable 300 square foot stage platform (recommend Wenger staging), 24 inches in height, located at one end of the room to provide a space for rehearsals and small group performance

CHORAL/INSTRUMENTAL MUSIC CLASSROOM

OBJECTIVES

Choral

To provide a middle grades choral music program designed as a bridge between elementary and high school music programs. Singing experiences are adjusted to accommodate the changing voice. Presentation of work is a natural progression in the study of music. Students are provided opportunities for performances and informances, which demonstrate the process of how students arrive at a performance. Based on the objectives found in the North Carolina Standard Course of Study, students learn to define the roles of performers and audience members.

Instrumental Music

To provide an instrumental music program in the middle grades designed as a bridge between elementary and high school music programs. Students have the opportunity to study band, orchestra, or jazz band. Presentation of work is a natural progression in the study of music. Students are provided opportunities for performances and informances, which demonstrate the process of how students arrive at a performance. Based on the objectives found in the North Carolina Standard Course of Study, students learn to define the roles of performers and audience members.

CAPACITY

1 teacher

ACTIVITIES

- The primary activity is the study of performance techniques and music literature through large group instruction.
- Small ensemble and individual or small group instruction are frequent parts of the instructional plan.
- Opportunities are provided for independent learning and the development of basic music knowledge and skills related to the literature studied.

DESIGN CONSIDERATIONS

- The choral music program works jointly with dance and drama
- Easy access to the platform as well as to other performing arts classes is important.
- Consideration should be given to the location of music rooms to aid in acoustical design toward isolating sounds from quieter learning environments

PHYSICAL REQUIREMENTS

Architectural Criteria

- Provide ceiling height of 16-20 feet
- Provide acoustical reverberation time of up to 1.3 seconds. The facility should be treated with absorber and diffuser panels to provide appropriate acoustical properties and a quiet environment
- Provide 4' wide door to allow movement of large equipment, solid - no vents in doors.
- Walls should acoustically treated and the room should have a sound transmission classification of at least STC 50 for both interior and exterior walls and STC 45 for doors and windows.
- The floor should be flat. Provide VCT floor finish in the classrooms and in storage areas
- Provide drinking fountain within the classroom or nearby
- Provide three 4' high x 5' long marker boards with continuous map rail over each board and 4' x 4' tack board at each end for teaching wall
- Provide one white dry erase markerboard with permanent music staff lines

- Provide lockable Storage Room for music library, six portable choral risers, keyboard, stereo equipment, props and shelving for choral music books, sheet music etc. Owner to provide current “Performing Arts Equipment List” for use in planning for storage needs of loose music equipment and instruments.
- Provide casework in classrooms to accommodate textbooks, resource books, recordings, CD’s, CD player and speakers
- Provide lockable Storage Rooms for Band and Orchestra

Mechanical Criteria

- A quiet air-handling system should be included. Temperature control should be zoned, with temperatures being maintained within a 2-4 degree range and humidity between 50-60 percent. The area should be well ventilated, but air flow should not produce drafts.
- Locate drinking fountain near classroom
- Provide deep utility sink with gooseneck faucet or flexible sprayer located in the Band/Percussion Storage Room for cleaning instruments

Electrical Criteria

- Provide Teaching Wall per detail in A/E Guide.
- Provide lighting of 70-100 foot candles throughout.
- Provision should be made for darkening the room for use of audiovisuals
- Additional duplex outlets minimum of one per wall – coordinate mounting height with risers
- Provide intercom/phone with volume control and privacy feature
- Provide computer network drops and power outlets per A/E Guide appendix
- Provide all outlets for computers on separate circuit

Furniture, Fixtures and Equipment

- Provide space for upright piano
- Provide risers – 42”L x 24”H x 20”W

MEDIA CENTER

OBJECTIVES

To provide a dynamic and essential physical and virtual space for personalized learning, knowledge construction, and academic achievement through the 21st century media center. To provide an information and knowledge space where students develop the necessary information and technology literacy skills to enable them to innovate and create new knowledge. The media center stimulates collaboration, communication, critical thinking, questioning and creativity through project-based authentic learning opportunities.



The resources must be current, multi-perspective, multi-formatted, and aligned with the American Association of School Librarians *Standards for the 21st Century Learner*, North Carolina Department of Public Instruction academic content standards, Charlotte-Mecklenburg Schools Strategic Goals 2018, and guidelines from Virtual Learning and Media Services.

The infrastructure in all areas of the media center should provide “state of the art” technology infrastructure for students to inquire, think critically, draw informed conclusions, and apply knowledge to new situations. The tools needed to organize, share, and produce this knowledge in a safe online environment community should be readily accessible to everyone in the school learning community.

CAPACITY

4-6 sq. ft. per student

ACTIVITIES

MAIN-USE ROOM- Must allow visibility from the circulation desk to all areas within the main room; e.g., primary storytelling area, instructional class spaces, individual and small group collaborative spaces, leisure reading and entry doors to the room.

- **Storytelling Area** (ES) should include elements that stimulate and encourage the learning process for early learners. It should be located away from the heavy traffic flow and near the low shelving specifically designed for easy/picture books. This area should be flexible to provide space for different purposes and groupings. A presentation system and story rug should be furnished for this area
- **Instructional Space** is needed for small and large groups (up to two classes simultaneously) since a major emphasis of the media center is instruction. A presentation system and age appropriate tables and chairs should be furnished for this area
- **Circulation** should be located adjacent to entry doors from the main corridor with visual control and access to workroom, TV Studio, and offices.
- **Leisure Reading Area** should accommodate lounge furniture to support collaboration and group work
- **Technology** to be wireless with ample power sources throughout the space. Provide space and infrastructure for two charging carts
- **Workroom** should be near the circulation desk; this room accommodates shelving for resources, tables and perimeter cabinets for equipment (laminator, poster maker, etc) and tables and chairs for group collaboration.

- **Storage Room** should have direct access to the main use room and should be equipped with 18 and 24-inch deep shelving, used primarily for equipment storage. Provide ample power sources for the charging of laptops carts
- **Television Studio** should be in close proximity to the Circulation Desk/Workroom/Office. No windows. It should be equipped for school wide broadcasting on a daily basis. Consideration should be given to the shape of the studio for broadcast desk, camera locations and lighting configurations with a green wall behind the location of the anchor desk.
- **Office** should be adjacent to circulation and have a window to allow for visual control of the main use area while sitting at the office desk. The office should be generous in space to allow the media specialist to work with staff, collaborate with teachers, and vendors, design lessons, and have conferences.

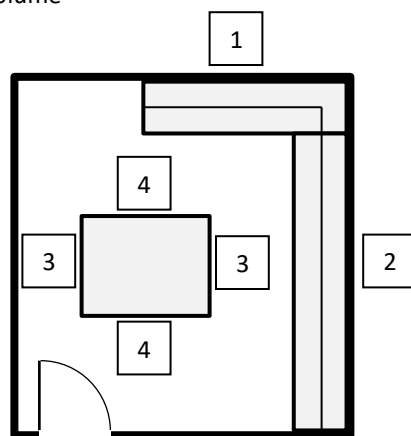
DESIGN CONSIDERATIONS

The Media Center should be located centrally on the ground floor for easy access from all learning areas, and away from noisy areas such as the cafeteria or multi-purpose room. There should be distinct internal “rooms” and no blind spots. The Media Center should be designed for multiple functions both during school hours and after. It would ideally have an exit onto a patio and be convenient to group restrooms for evening use by the public.

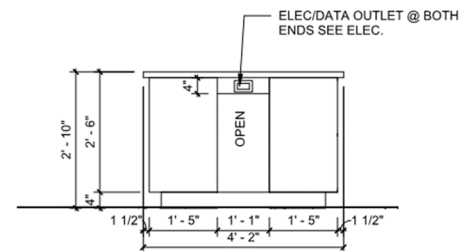
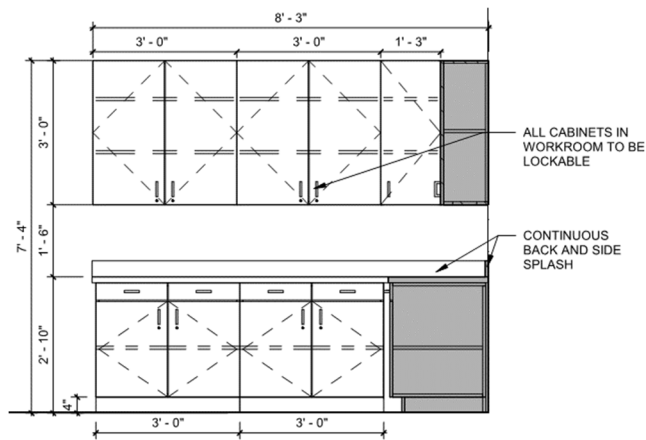
PHYSICAL REQUIREMENTS

Carpet, data outlets, phone/intercom, two instructional presentation spaces (primary storytelling and one large group instructional area)

- Provide circulation desk with wide view of main floor and quick access to phone and main entrance with generous adjustable shelving behind desk. Desk to include lockable pencil drawers, lower cabinet drawers, counter top space for a printer, purposefully designed space for computers/book scanners, student self check out and a depressible mobile book drop with slit opening in the circulation desk.
- Provide simple square or rectangular room shape with no columns
- Placement of network jacks and sources of power is crucial in overall layout and flexibility of space.
- Careful placement of windows to complement bookshelf locations and heights
- Defined instructional areas wired for two Teaching Walls per detail in A/E Guide. Lighting to be independently switched for clarity of projections and darkening of different parts of the room
- Two computer network drops with adjacent quad power outlets near Computer Projection Systems
- Design to be sensitive to shapes and sound transmissions to avoid acoustical problems
- Floor boxes with data, and electric connections
- Intercom/Phone with adjustable volume



WORKROOM ELEVATIONS KEYPLAN – See Next Page

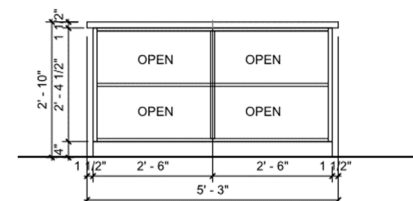
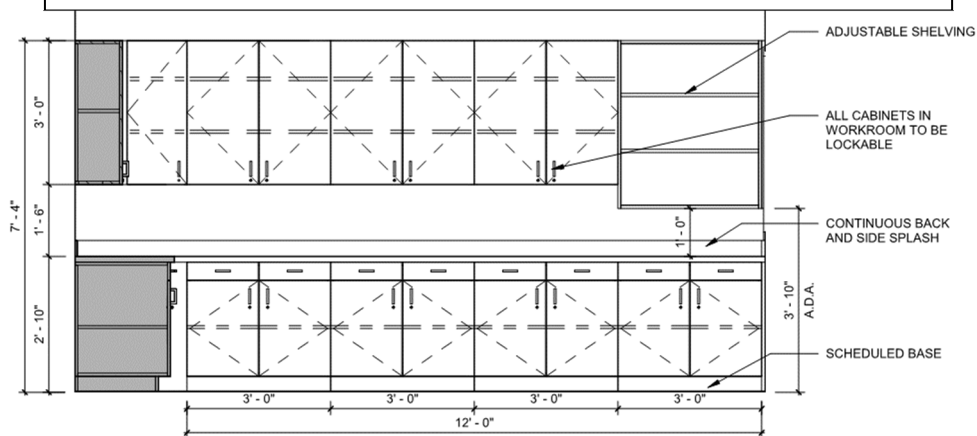


1 CASEWORK ELEVATION - MEDIA CENTER WORK RM

3 MEDIA CENTER WORK RM

1/4" = 1'-0"

1/4" = 1'-0"

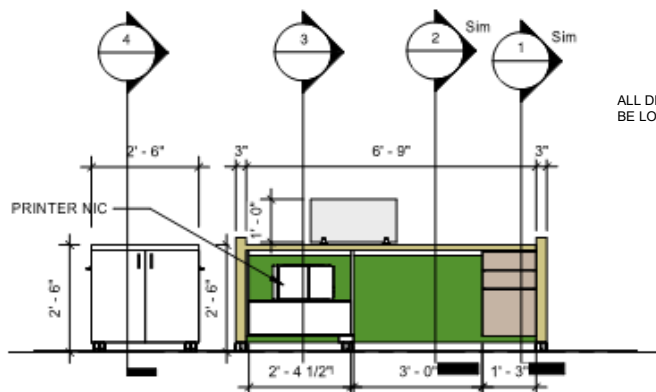


2 CASEWORK ELEVATION - MEDIA CENTER WORK RM

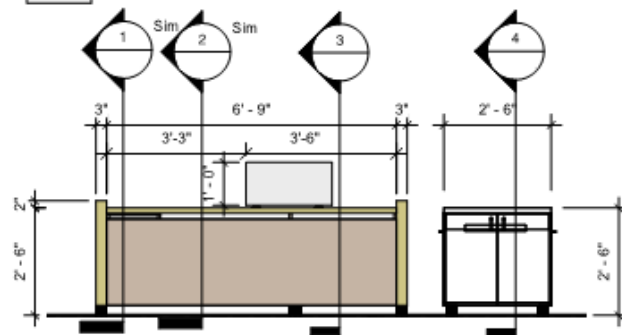
4 MEDIA CENTER WORK RM

1/4" = 1'-0"

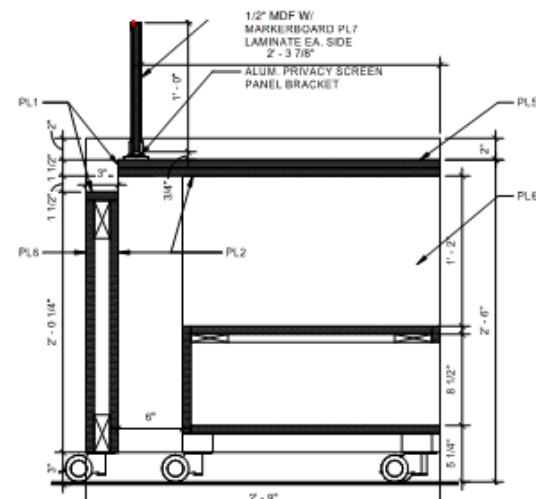
1/4" = 1'-0"



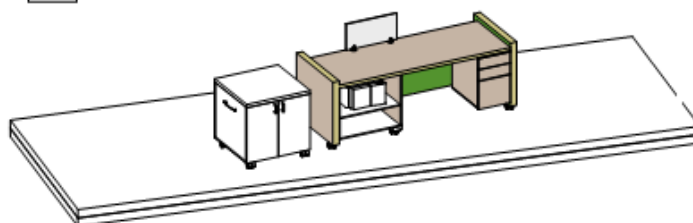
A CASEWORK- MEDIA DESK- BACK
1/4" = 1'-0"



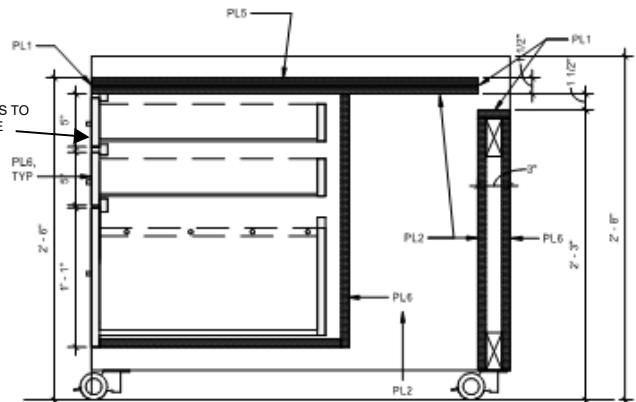
B CASEWORK- MEDIA DESK- FRONT
1/4" = 1'-0"



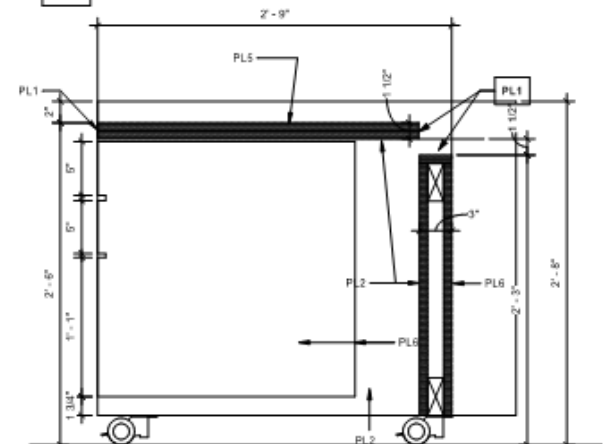
3 INTERIOR CASEWORK SECTION- MEDIA DESK
3/4" = 1'-0"



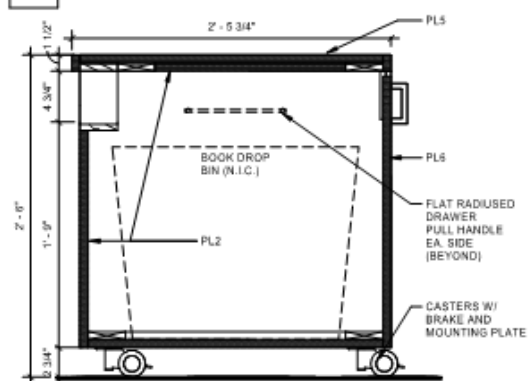
5 MEDIA DESK BACK



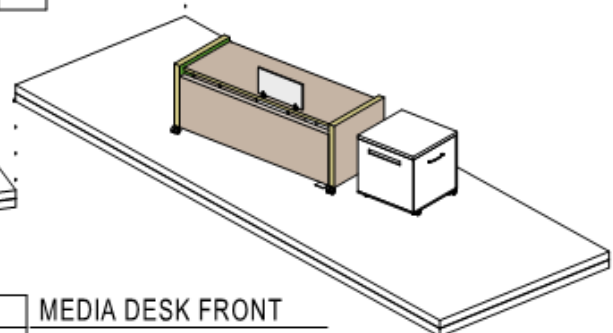
1 CASEWORK - MEDIA DESK COUNTERTOP
3/4" = 1'-0"



2 CASEWORK - MEDIA DESK KNEE SPACE
3/4" = 1'-0"



4 INTERIOR CASEWORK SECTION- BOOK DROP
3/4" = 1'-0"



6 MEDIA DESK FRONT

MAKERSPACE

OBJECTIVES

To provide a flexible space for hands on learning, digital learning, CTE.

ACTIVITIES

Team teachers engaged in conferencing, scheduling and planning strategies for students and conferences with parents.

DESIGN CONSIDERATIONS

To be located adjacent to the third Large Group Instruction area of media center. Provide windows for observation by staff and other students.

PHYSICAL REQUIREMENTS

Architectural Criteria

- Provide base and wall cabinets along one wall with a sink, per Casework Elevation below, with the following:
 - Closed cabinetry with lockable storage with electrical capacity to securely store devices while charging (iPads, small robots, etc.) and for storing devices we don't want students to access such as tools.
 - Open casework for some books and display of student work.
 - Counter for placing 3D printer and/or other equipment listed in chart below.
- Maximize the number of marker boards available in the space.
- Provide two 4'x4' tack boards.
- Provide 1" mini-blinds for windows

Mechanical Criteria

- Provide individually controlled HVAC unit sized to accommodate students and equipment.
- Provide hot and cold running water to sink.

Electrical Criteria

- Provide sixteen network drops with a minimum of two network drops available above base cabinets.
- Provide cabling in ceiling for classroom camera.
- Provide cabling in ceiling for wireless access point.
- Provide duplex outlets elsewhere around the space at 6' on center.
- Provide three electrical power reels mounted to the ceiling space evenly through the space.
- Provide intercom/phone with volume control and privacy feature.

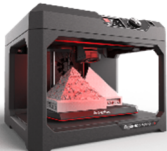




Furniture, Fixtures and Equipment

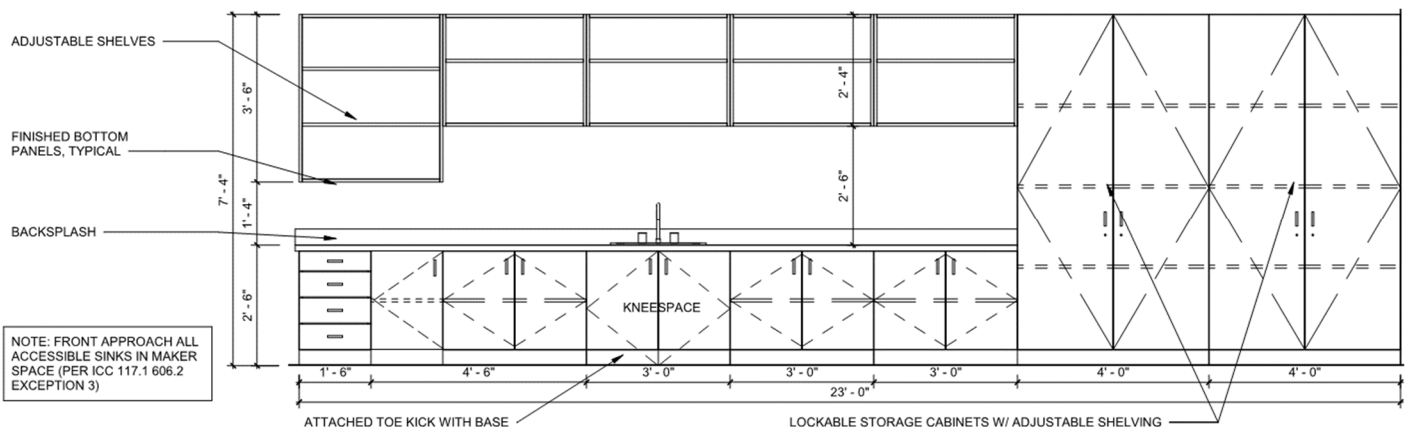
- Five tables with seating for 30 students. The size and height of tables is determined by the dimensions of the space and the grade level. Elementary is usually tables and chairs and secondary is counter height table with stools.
- 1 teacher chair (casters) and a mobile pneumatic teaching station
- 2 storage carts on casters with removable bins/trays
- 1 mobile dry erase or glass board

Materials and Supplies by Owner

- | | |
|---|------------------------------|
| ○ Toolkit and box cutter | ○ Buddha Board |
| ○ Snap and squishy circuits | ○ 3Doodler 3D pen set |
| ○ K'Nex, Legos, Magformers, or Magnatiles | ○ Makey Makey Kit |
| ○ Keva planks | ○ Ozobots or Sphero robots |
| ○ Cardboard construction kits | ○ Wonder Workshop Dash robot |
| ○ Arduino starter kit | ○ <i>Strawbees</i> |

Makerspace Equipment

Device	Link to Device	Specifications	Image
Makerbot Replicator 3D printer (provisioned by Technology) Needs dedicated laptop or desktop and electrical access	Makerbot Replicator	52.8 L X 44.1 W X 41.0 H CM [20.8 X 17.4 X 16.2 IN]	
Poster Maker (requires electrical outlet and possibly network drop) Provisioned by school	Presentation Systems South Learn on Demand Poster Maker System	Height 38" Width 41" Depth 41"	
Cold Laminator (does not require electrical outlet - hand crank) Provisioned by school	Presentation Systems South Cool Lam	Height 18" Width 28" Depth 28"	
Roll Laminator (requires electrical outlet) Provisioned by school	Laminex lamintor PDF User Guide	Height 15"(381 mm) Width 34" Depth (with feed tray) 20" Net Weight 66 lbs.	
Cricut Maker 3 Machine Needs electrical access	Cricut Shop	26.25 x 11 x 11.2 inches	



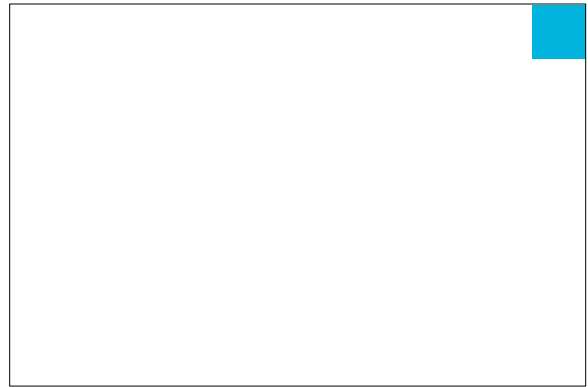
CASEWORK ELEVATION - MAKER SPACE

$$1/4'' = 1'-0''$$

GYMNASIUM

OBJECTIVES

To provide positive attitudes and behaviors for a lifetime commitment to joyful physical activity and good health. Physical Education is a sequential instructional program that provides learning experiences that develop physical and mental fitness, motor skills, and moral social behavior. It is based on the study of human movement and includes educational games/sports, dance, and gymnastics with fitness concepts integrated into all of the content areas. A variety of teaching styles is used to develop experiences that encourage students to become efficient, versatile, and creative movers.



CAPACITY

170 students 2 teachers

ACTIVITIES

- Development of team sport skills, small group, and individual activities both indoors and outdoors.
- Individual and dual sports (golf, tennis, gymnastics/tumbling and apparatus work, badminton, and ping pong)
- Creative dance (square, line, social, and aerobics).
- School Assemblies

DESIGN CONSIDERATIONS

- Gym should open onto exterior playing field with covered entrance and accessible concrete sidewalks
- Group toilets and drinking fountains in the hall near the gym and near the playing field for community use
- A custodian room should be located close to the gymnasium.
- Students should not have to cross parking lots or streets to get to the field from the locker rooms or gymnasium.
- P.E. offices should be located near the locker rooms for audible and visual connections to all occupied spaces.
- Storage room with electrical outlets
- Locate the Health Classroom adjacent to the Gymnasium
- Laundry Room to have residential washer and dryer, and smaller size ice maker.

PHYSICAL REQUIREMENTS

Architectural Criteria

- Wood floor
- Striping for Competition Basketball 84'x50'
- Striping for Competition Volley Ball 60'x30' with in-floor sleeves for net stanchions
- Striping for two P.E. Volley Ball Courts (perpendicular to competition court, side-out lines to be out of basketball rim plane of influence)
- Striping for four half courts for basketball (perpendicular to competition court)
- Accessible bleacher seating capacity per A/E Guide, with enclosed ends, in molded plastic school colors and electrically retractable
- Basketball court floor to have one large centrally located team mascot logo.
- 2 clear Plexiglas fixed backboards (rectangular 6' x 3 ½') with breakaway rims, protective padding, clear safety film and *National Federation of State High School Associations Court and Field Diagram* appliances for team possession timing (red lights at each competition backboard)
- 4 Fiberglass backboards (rectangular 6' x 3 ½'), electrically retractable
- 10' runoff space at ends of basketball court
- PA system hookups in the floor on the home team side at appropriate scorer's table location

- 1 scoreboard (wireless) located on the end wall behind the main goal, not on the walls behind practice goals. Locate scoreboards so they can be viewed from scorer's table and team seating areas.
- Acoustical treatment of walls and ceiling so that students can hear the teacher's instructions. This is a teaching classroom and there should be no echoing of sound.
- Quality intercom system that can be clearly heard
- Protected clock
- Sound resistant walls/doors/ceilings.
- 1 Telecom with quad receptacle at each end of the gym
- Gym walls should have hard and smooth surfaces for handball and paddle ball.
- Use translucent windows in gym to prevent glare. Windows should be at least 10' above the floor level.

Mechanical Criteria

- Good ventilation - air conditioning, fans, and heat system need to be quiet so that instructions can be heard.
- Provide separate air conditioning/heat control for gym.

Electrical Criteria

- Provide for electrical requirements of a scoreboard.
- Dual electrical outlets on each wall (per code), at least two dual outlets on each wall
- Sound system with outlets for a microphone at several locations
- Provide segregated security for gym.

Furniture, Fixtures and Equipment

- If less than 10' of runoff is provided at ends of the basketball court, provide protective wall mats under main baskets with school name and/or logo on mats.

MULTIPURPOSE ROOM

OBJECTIVES

The goal of the CMS Physical Education program is to instill positive attitudes and behaviors for a lifetime commitment to joyful physical activity and good health. Physical Education is a sequential instructional program that provides learning experiences that develop physical and mental fitness, motor skills and moral social behavior. It is based on the study of human movement and includes educational games/sports, dance, and gymnastics with fitness concepts integrated into all of the content areas. A variety of teaching styles is used to develop experiences that encourage students to become efficient, versatile, and creative movers.



All Charlotte-Mecklenburg students will be able to:

- Develop an acceptable level of health-related fitness and demonstrate knowledge, skill, and behaviors to promote personal fitness;
- Acquire motor skills necessary for successful participation in lifetime physical activities of personal choice; and
- Understand and value lifetime participation in physical activity.

CAPACITY

1 teacher

PHYSICAL REQUIREMENTS

- The multi-purpose room should be located adjacent to the dining area and separated by folding partition for PE activities
- The platform should be located directly across from the folding partition and must be wheelchair accessible
- Provide acoustical treatment of walls and ceiling in multi-purpose room to accommodate PE activities
- Provide large and tall storage space for equipment to include volleyball stands
- Provide intercom/phone with volume control and privacy feature.
- Provide vinyl composition tile floor - marked with one rectangle around court and mid-line for two cross courts. A broken line divides the rectangle lengthwise and divides the width of each half court. One 8'x8' four square in each corner of the rectangle, one large circle in each half of multi-purpose room.
- Provide two adjustable basketball goals
- Provide protected clock
- Provide duplex electric outlets on each wall, at least two dual outlets on each wall
- Provide sound system with outlets for a microphone at platform (at multipurpose room)
- Multi-purpose room should have minimum 2 data outlets each paired with quad outlets
- Provide motorized 10' x 10' projection screen over platform and electrical connections.
- Platform should be equipped with main traveler, valance, and side/rear cycloramas.
- Platform should be equipped with front stage light bar and side stage dimmer controls which are accessible from the platform
- Provide one data outlet on platform paired with quad outlet
- Provide one data outlet at base of platform paired with quad outlet
- Provide one large storage room accessed from the multipurpose room for PE equipment and as a teacher office. This room should have double wide doors so that gymnastics equipment, mat, and volleyball standards can be easily moved in and out. This same room should be equipped with shelves 18" deep for balls, bats, nets, golf clubs, and paddles. Ball shelves should tilt toward back to prevent balls from rolling off shelves. Need lip on the front of shelves. Wall brackets are needed to hang tennis rackets and badminton rackets flat. Wall hooks are needed for jump ropes. Also provide space for a teacher's desk and chair, with power and data at desk.
- Provide separate specific area for chair storage, (500 – 600 chairs)

- Install electrical outlets on each wall of storage room
- Provide separate security system for multi-purpose room
- Provide separate intercoms to platform, multi-purpose, and dining
- Refer to A/E Guide Section 11.2 for requirements of climbing wall mounting in MultiPurpose Room
- Any windows in this space should be at least 10' above the finished floor.
- Ceiling to be 20' AFF minimum to accommodate basketball and volleyball games

RECEPTION / SECRETARY'S AREA

OBJECTIVES:

To provide a reception area that is warm, inviting and projects a professional image. The reception area should efficiently accommodate secretarial staff, students, visitors, and parents.

CAPACITY

8-10 people/visitors and 2 administrators, with 2 work stations behind counter.

ACTIVITIES:

- Monitoring of main entry camera and control of entry door locks.
- Greeting of parents and visitors.
- Control point of administrative suite.
- Registration of students entering or leaving during school hours.
- Broadcast of announcements.
- General secretarial activities and duties.

DESIGN CONSIDERATIONS

- Must have visual control over front entry of school and main corridor. Ideally have visual control over front parking areas.
- Proximity to principal and/or assistant principal.
- Adjacent to health room.
- Access to workroom and storage rooms.

PHYSICAL REQUIREMENTS:

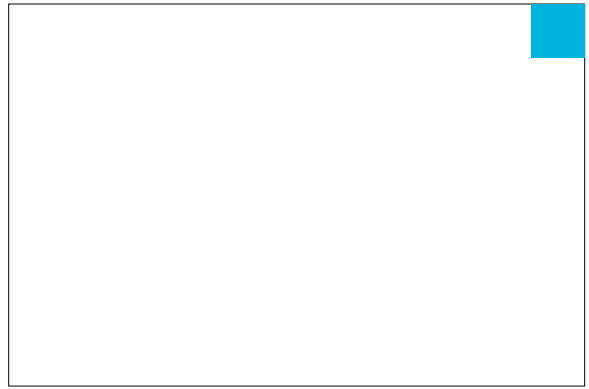
Architectural Criteria

- Provide lobby/waiting area with functional seating arrangement.
- Provide desk height reception counter to divide waiting from secretarial spaces- Camera/front door locking security system to be integrated.
- Provide space for 2 work stations behind counter.
- Front door vestibule to provide security with locked doors to direct circulation through main office area.
- Visual access should be provided to front entrance to school and to the area outside the front entrance.
- Provide carpeted floors and/or VCT on the public side of the reception counter.
- Provide visual and audible access to Health room.
- Provide built-in coat closet.
- Provide 1" mini-blinds for all windows typical.

Mechanical Criteria

Electrical Criteria

- Provide six data outlets, each paired with a duplex electrical outlet, located on opposite walls and in reception counter to facilitate alternate furniture arrangements
- Provide duplex outlets elsewhere around the space at 6' on center
- Provide cabling in ceiling for wireless access point.
- Provide space for master intercom console and appropriate electric and communications connections.
- Provide space for master telephone and fax console.



- Provide intercom/phone with volume control and privacy feature.
- Provide monitor mounted above head height facing secretarial staff. Provide cable TV connections and proximity to electricity with structural wall blocking for mounting monitor.
- Fire alarm and Intercom head end located in this area

Furniture, Fixtures and Equipment

- Provide reception counter with a combination of lockable storage units and open space to house three-drawer file cabinets below.
- Provide built-in display case.
- Provide two 4'x6' tackboards.

PRINCIPAL'S OFFICE

OBJECTIVES

The school administrative offices should provide a space wherein school-related business and concerns can be addressed with dignity in an attractive and suitable environment.

CAPACITY

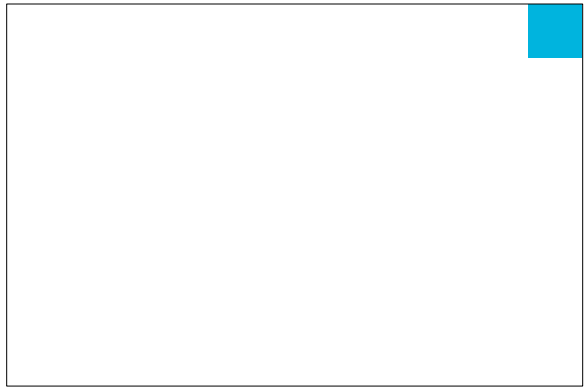
2-6 people/guests - executive desk suite of furniture and conference table and chairs with credenza and bookshelves typical

DESIGN CONSIDERATIONS

- Office should be near but not adjacent to the main reception area
- Office should be in close proximity to administration team, student records and guidance area
- Office should be adjacent to dedicated conference room
- Administration suite should be designed so that the Principal's office can be located on either end of the suite of offices. Two options for locations, adjacent to a conference room is preferable
- Conference room to be equipped with marker board, tack board and bookshelves, typical

PHYSICAL REQUIREMENTS

- Provide carpeted floor
- Provide two computer outlets, each paired with a quad electrical outlet, located on opposite walls to facilitate alternate furniture arrangements
- Provide duplex outlets elsewhere around the space at approximately 6' on center
- Provide Intercom/phone with volume control and privacy switch
- Provide 1" mini-blinds for windows typical



ASSISTANT PRINCIPAL'S OFFICE

OBJECTIVES

The Assistant Principal's office should provide a setting where daily school business, as assigned, can be transacted.

CAPACITY

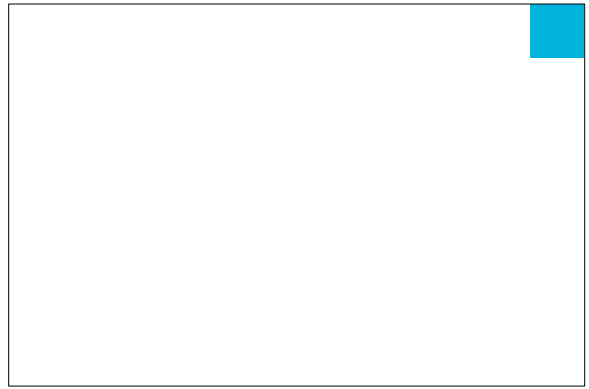
2-4 people/guests. Assist. Principal executive desk suite of furniture

DESIGN CONSIDERATIONS

Close to principal's office, main reception/entrance and conference room

PHYSICAL REQUIREMENTS

- Provide carpeted floor
- Provide receiving area separate from the main office reception area
- Provide access to secondary exit from administration area
- Provide two computer outlets, each paired with a duplex electrical outlet, located on opposite walls to facilitate alternate furniture arrangements
- Provide duplex outlets elsewhere around the space at 6' on center
- Provide phone/Intercom with volume control and privacy switch
- Provide 1" mini-blinds for windows



FINANCIAL SECRETARY OFFICE

OBJECTIVES

Financial Secretary/Bookkeeping office should provide a quiet and private setting where school business transactions can be accommodated.

CAPACITY

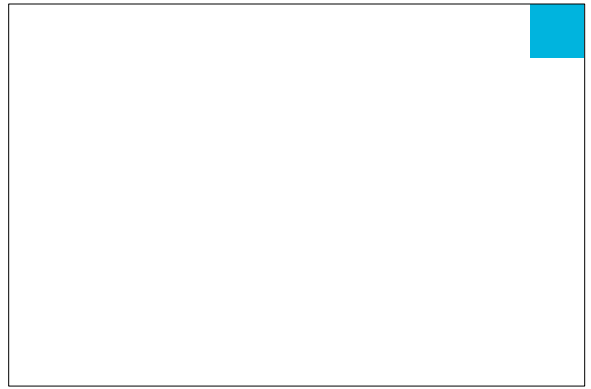
2-4 people

DESIGN CONSIDERATIONS

Locate in administration office complex but away from high traffic areas.

PHYSICAL REQUIREMENTS

- Provide carpeted floor
- Provide two data outlets paired with quad electrical outlets
- Provide duplex outlets elsewhere around the space at 6' on center
- Provide intercom/phone with volume control and privacy switch



ITINERANT STAFF WORK SPACE

OBJECTIVES

To provide a "home base" for itinerant staff and allow for interaction and planning between professionals

CAPACITY

Four to six persons

ACTIVITIES

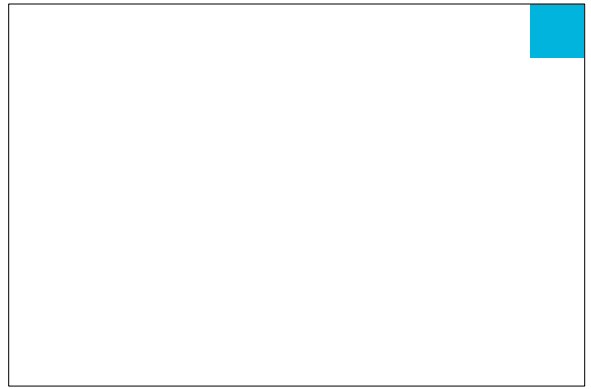
- Teacher and Staff Planning
- Office /Conference Space
- Storage of itinerant materials

DESIGN CONSIDERATIONS

- Locate itinerant staff in close proximity to main entrance, administration area and guidance area
- Locate to allow immediate access to a conference room
- Locate in close proximity to adult restrooms

PHYSICAL REQUIREMENTS

- Provide carpeted floor
- Provide intercom/phone with volume control and privacy switch
- Provide six computer outlets, each paired with a quad electrical outlet, minimum of one on each wall
- Provide duplex receptacles elsewhere around the perimeter of the space at 6' on center
- Provide 4'X 8' tack board
- Provide 1" mini-blinds for windows
- Workstations to be "touch-down" size, i.e. 6' x 6'



CONFERENCE ROOM

OBJECTIVES

The Conference Room should be shared by all administration personnel and should provide a quiet inviting setting for conferences and group assemblies for student or school business.

CAPACITY

10-12 people

ACTIVITIES

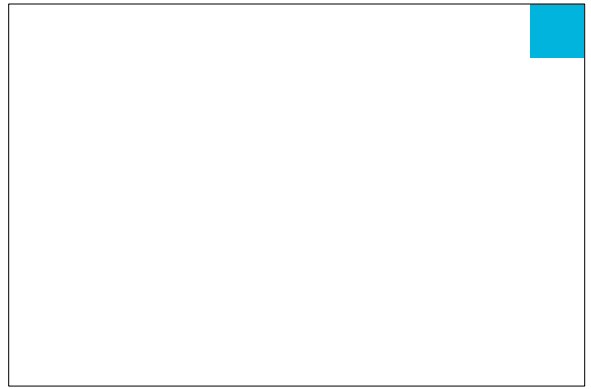
- Parent conferences
- Testing evaluations

DESIGN CONSIDERATIONS

Adjacent to Principal's office, Assistant Principal Offices and reception area – If possible twin locations of office/conference suites are to be provided to offer maximum flexibility to staff. This can be provided by designing two ends of a main administration wing with an office-conference room pairing.

PHYSICAL REQUIREMENTS

- Provide one data outlet paired with a duplex electrical outlet
- Provide duplex outlets elsewhere around the space a 6' on center
- Provide television connection, and mounts for monitor
- Provide marker board and tack board
- Provide intercom with volume control and privacy switch
- Provide carpeted floor



WORKROOM

OBJECTIVES

To provide workspace for teachers, secretaries, principal and assistant principals.

CAPACITY

2-4 people

ACTIVITIES:

- Storage (school supplies and system forms).
- Copying of materials.
- Laminating, assembling and distribution of staff mail
- General clerical tasks.

DESIGN CONSIDERATIONS

Locate in principal's office suite close to secretarial area and on a major corridor.

PHYSICAL REQUIREMENTS

Architectural Criteria

- Provide vinyl tile floor.

Mechanical Criteria

Electrical Criteria

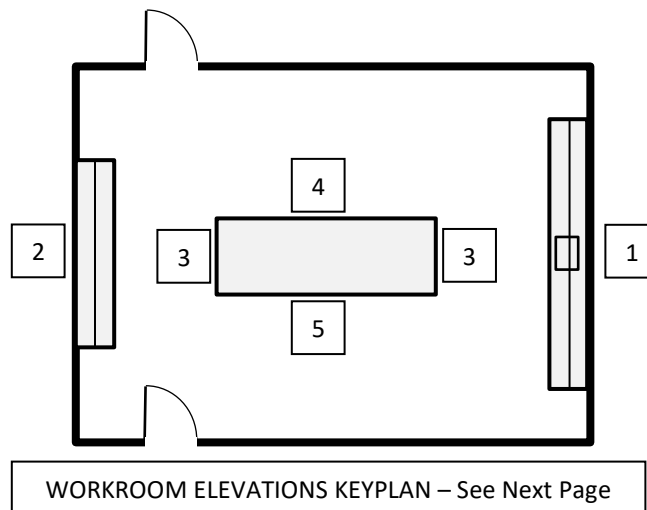
- Provide intercom/phone with volume control and privacy feature.
- Provide two computer outlets in the workroom and one in the storage room, each adjacent to a quadruplex electrical outlet.
- Provide electrical outlets elsewhere at 6' on center.

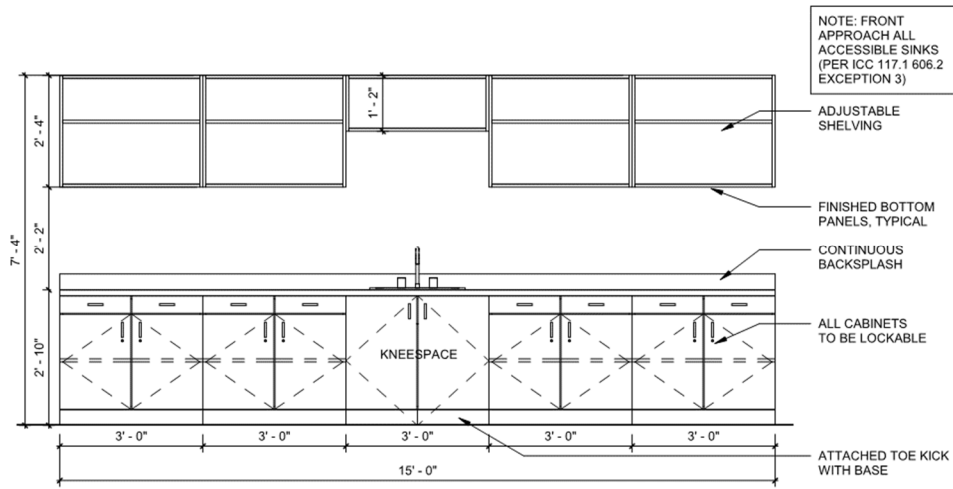
Furniture, Fixtures and Equipment

- Provide one wall of built-in base and overhead cabinets. All cabinets to be lockable. Units to be a mix of closed, open shelves, and drawers.
- Provide 12" deep shelving on all available walls of storage room.
- Provide work table per the details included in the A/E Guide Appendix.
- Provide teacher mail slots per the details included in the A/E Guide Appendix. .



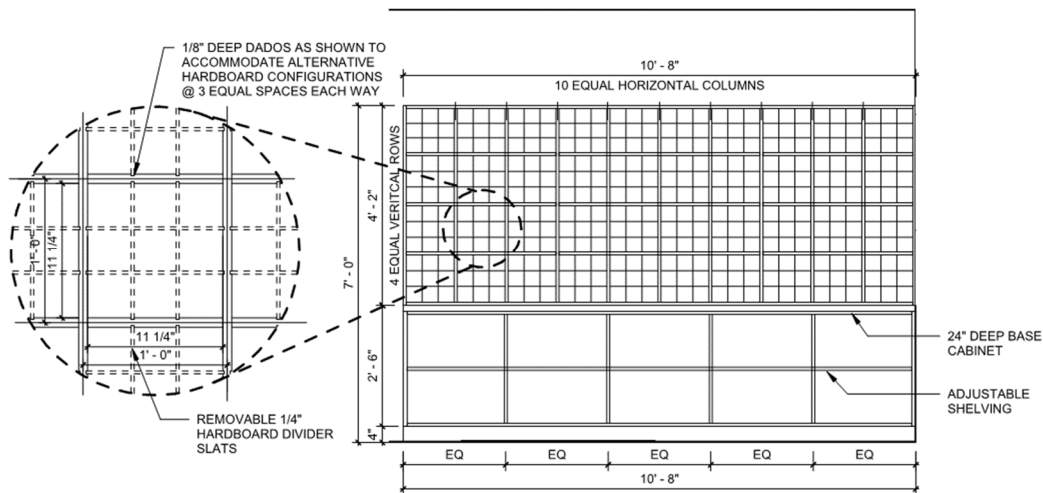
Hawthorne Acad. of Health Sci., Morris Berg





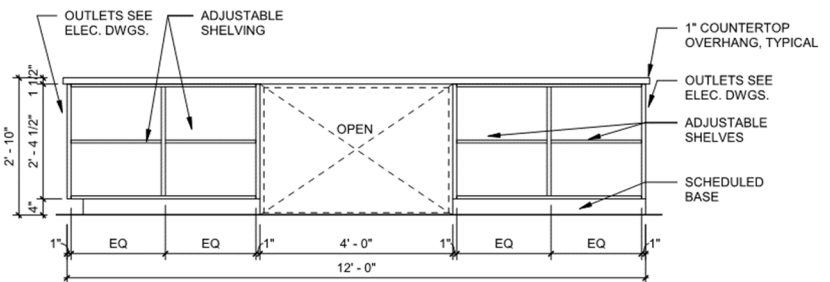
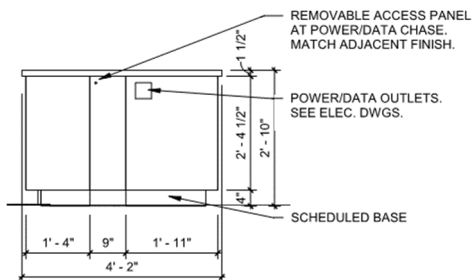
1 CASEWORK ELEVATION - WORKROOM

$1/4" = 1'-0"$

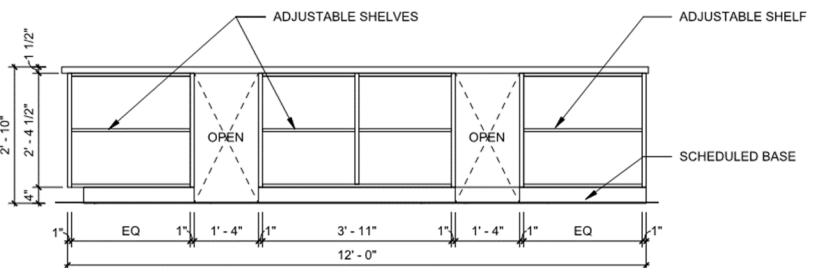


2 MAILBOX CASEWORK

$1/4" = 1'-0"$



4 CASEWORK- WORKROOM



3 CASEWORK- WORKROOM

$1/4" = 1'-0"$

5 CASEWORK- WORKROOM

$1/4" = 1'-0"$

FACULTY BREAKROOM

OBJECTIVES

To provide space for teachers and staff to take breaks and eat lunch.

CAPACITY

6-8 people

ACTIVITIES:

- Take breaks.
- Prepare coffee.
- Store and eat lunches.
- Access vending machines.

DESIGN CONSIDERATIONS

Locate in proximity to classroom wing. Provide space for (4) vending machines, a refrigerator, and base and wall cabinets where a microwave could be placed.

PHYSICAL REQUIREMENTS

Architectural Criteria

- Provide vinyl tile floor.

Mechanical Criteria

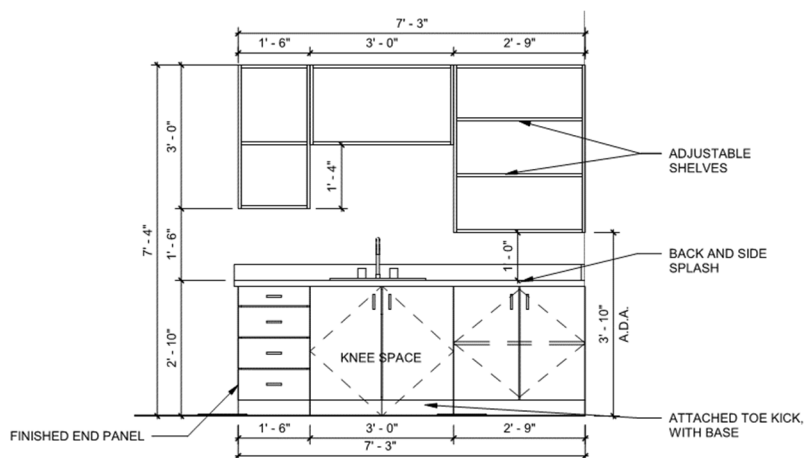
- Provide sink with hot and cold water.

Electrical Criteria

- Provide intercom/phone with volume control and privacy feature.
- Provide electrical outlets at 6' on center.

Furniture, Fixtures and Equipment

- Provide one wall of built-in base, sink and overhead cabinets. Units to be a mix of closed, open shelves, and drawers.



CASEWORK ELEVATION - FACULTY BREAK

1/4" = 1'-0"

STUDENT RECORDS

OBJECTIVES

To provide secure fire resistant area for storage of student records and school financial records.

CAPACITY

1-2 people

ACTIVITIES

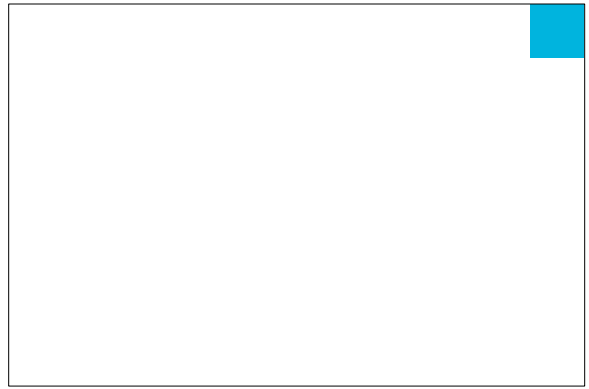
- Storage of student files
- Retrieval of information
- Logging of information onto computer system

DESIGN CONSIDERATIONS

Locate adjacent to Student Services Office (for Registrar access) and adjacent to Financial Secretary Office. Locate in proximity to Principal and Assistant Principals.

PHYSICAL REQUIREMENTS

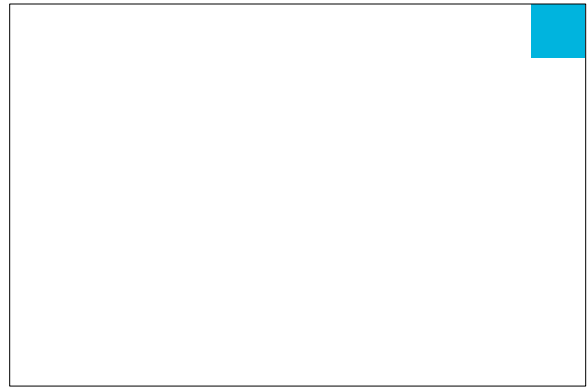
- Provide intercom/phone with volume control and privacy switch
- Provide one data outlet paired with a duplex electrical outlet
- Provide duplex outlets elsewhere around the space at 6' on center
- Provide minimum of 1-hr. enclosure
- Provide carpeted floor
- HVAC should be provided for occupiable office



HEALTH ROOM

OBJECTIVES

To provide adequate space for school nurse to assess needs of students and staff in a private, confidential area; to triage sick and/or injured students, administer first aid and monitor status while waiting for parent pick-up; conduct required screenings and evaluations; to provide health counseling, case management and communicate with health care providers; and, serve as a center for health and wellness resources, education and activities for staff and students.



CAPACITY

4-6 people

ACTIVITIES

- Student examinations and/or treatment by the school nurse
- Resting area for sick and injured students or waiting for parent pick-up
- Administration of medication(s) and treatments
- Storage (first aid supplies, medication, linens for beds, wheelchair, scale, health information resources)
- Conduct required screenings and evaluations
- Nurse/student confidential conferences
- Confidential conversations with parent, staff and/or healthcare providers
- Collaboration with staff on health and wellness activities

PHYSICAL REQUIREMENTS

- Located near the main office, but away from the public, entrance behind the secretary/receptionist for supervision on days nurse is not present or occupied outside the health room
- Provide window for observing students from secretary area, but placed for privacy/confidentiality so visitors entering the reception area cannot see students in the health office
- Ideally two entrances; one to office area and one to hallway
- Provide 1" mini-blinds for windows for privacy
- Provide vinyl composition tile floor or rolled rubber heat welded (no carpet)
- Provide private accessible restroom with hot (tempered)/cold water and accessible shower (if a shower is not otherwise provided within the school at a modified rest room) with floor drain typical.
- Provide sink with hot (tempered) and cold water and counter with lockable drawers and storage
- Provide paper towel and liquid soap dispensers at the sink
- Restroom should be sized to allow for a changing area and the use of a small cot
- Provide intercom/phone with volume control and privacy switch
- Provide two computer outlets, each paired with quadruplex electrical outlet, located on opposite walls to facilitate alternate furniture arrangements
- Provide duplex outlets elsewhere as needed
- Provide wall clock
- Provide privacy curtain from the ceiling to visually separate cots
- Provide ADA-compliant mini refrigerator with lock (include in GC contract), positioned within base cabinet.

EQUIPMENT

- Provide 2 cots in storage near restroom
- Provide four drawer lockable file cabinet for confidential files

-
- NOTE: FRONT APPROACH ALL ACCESSIBLE SINKS (PER ICC 117.1 606.2 EXCEPTION 3)
- LOCKABLE WALL CABINETS WITH ADJUSTABLE SHELVES, TYPICAL
- FINISHED END PANEL
- ATTACHED TOE KICK WITH BASE
- 7'-0"
- 3'-0"
- 2'-6"
- 1'-6"
- 3'-0"
- 7'-4"
- 1'-6"
- 2'-10"
- 3'-0"
- 1'-6"
- 2'-6"
- 7'-0"
- FINISHED END PANELS OR FILLER PANELS REQUIRED AGAINST WALL
- ADJUSTABLE SHELVES
- BACK AND SIDE SPLASH
- LOCKABLE DRAWERS, TYPICAL
- UNDER-COUNTER REFRIGERATOR THIS LOCATION PROVIDED BY CONTRACTOR. COORDINATE COUNTER HEIGHT AND CABINET WIDTH WITH OWNER EQUIPMENT PRIOR TO FABRICATION
- KNEE SPACE
- OPEN

$$1/4'' = 1'-0''$$

STUDENT SERVICES OFFICE & CONF. RM.

OBJECTIVES

The Guidance and Student Services program is designed to assist students and their families with students' normal progression through the developmental stages in the areas of learning, social skills, and career planning. Each elementary school has a full-time Student Services Specialist (certified in school psychology with training school counseling and school social work). To deliver a comprehensive Student Services program, the Student Services Specialist:

Provides classroom guidance concerning personal and social skills, career development and study skills
Consults with school staff and parents
Conducts psychological evaluations of students who have learning or behavioral problems
Provides individual and group counseling
Serves as liaison between home, school and community resources

CAPACITY

Office 3-5 people with corner area for “kid-friendly” interviews

Conference 6-10 people

DESIGN CONSIDERATIONS

The Student Services office should be located near the mainstream of student traffic, with direct student entrance without going through the administrative offices. Access to the administrative office for records is desirable. Separation from high noise areas is needed.

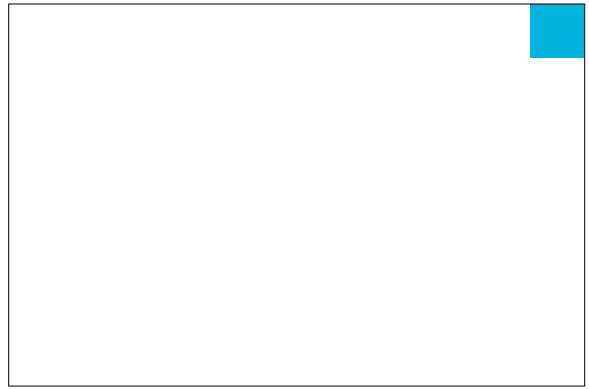
PHYSICAL REQUIREMENTS

Office:

- Provide two data outlets, each paired with quad electrical outlet, located on opposite walls to facilitate alternate furniture arrangements
- Provide duplex outlets elsewhere around the space at 6' on center
- Provide intercom/phone with volume control and privacy feature.
- Provide carpeted floors
- Kid-friendly interview space

Conference

- Provide intercom/phone with volume control and privacy feature
- Provide data connection
- Provide television connection for wall mounted monitor



PARENT CENTER

OBJECTIVES

The Parent Center is a place for interaction between parents, teachers and administrators. It is also the location for parent resources and educational information.

CAPACITY

6-8 people

DESIGN CONSIDERATIONS

Parent center should be located close to administration area, main entrance, and staff accessible restrooms. Must be wheelchair accessible.

PHYSICAL REQUIREMENTS

Architectural Criteria

- Provide carpet.

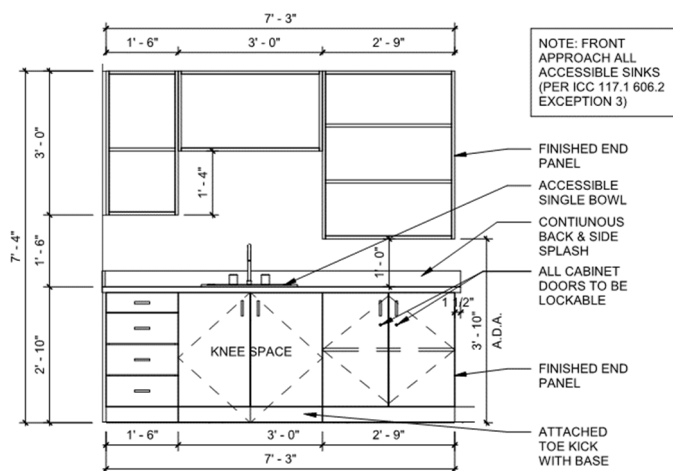
Mechanical Criteria

Electrical Criteria

- Provide three data outlets, each grouped with a quadruplex receptacle. Provide wireless access point.
- Provide duplex outlets elsewhere around the space at 6' on center.
- Provide intercom/phone with volume control and privacy feature.

Furniture, Fixtures and Equipment

- Provide three 48"x84" high book shelf units.
- Provide 6' long counter with sink and under counter storage consisting of drawer and closed lockable units.
- Provide one 4'x8' tackboard.



CASEWORK ELEVATION - PARENT CNTR

1/4" = 1'-0"

WELLNESS ROOM

OBJECTIVES

Employee wellness rooms can help ease stress and tension around the workplace. Per Section 4207 of the Patient Protection and Affordable Care Act, new mothers also need a private, designated space to nurse. This space is intended for staff use only.

CAPACITY

1-2 people

ACTIVITIES:

- Accommodate nursing mothers.
- Provide a private area for administering medication, stress relief, or work breaks.
- Provide an area for employees with migraines to receive sensory relief.

DESIGN CONSIDERATIONS

- The Wellness Room is to accommodate casework for storage, sink and small refrigerator, as a private room for individual use.

PHYSICAL REQUIREMENTS

Architectural Criteria

- Provide a design scheme with subtle colors, pale hues like light gray and beige, to make it easier for employees to relax and unwind.
- Provide carpeted floor.
- Provide high-NRC acoustical ceilings.
- Provide entry lock door hardware with occupied/vacant indicator.
- Provide casework with sink and under-counter refrigerator.
- Provide ADA-compliant mini refrigerator with lock (include in GC contract), positioned within base cabinet.

Mechanical Criteria

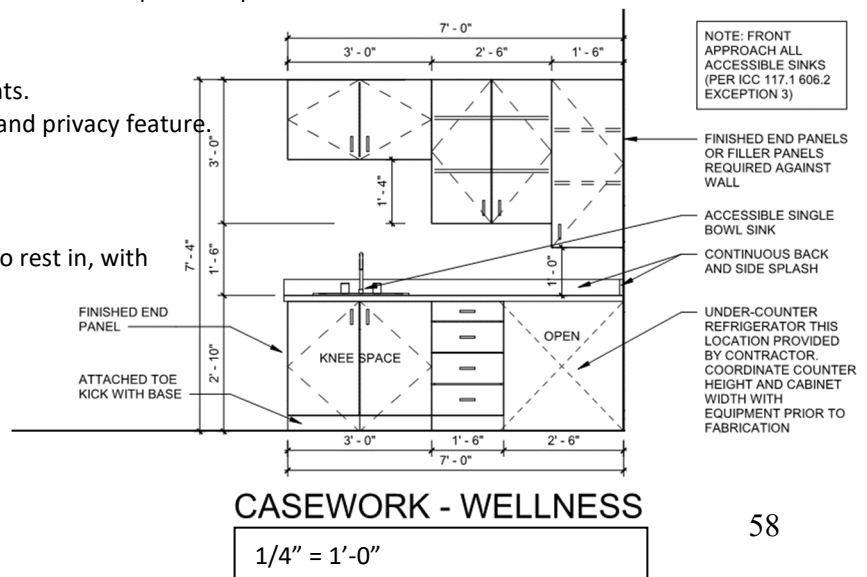
- Provide a small sink at the casework with hot (tempered) and cold water.
- Provide heating/cooling with individual sensors to control space temperature.

Electrical Criteria

- Provide LED lighting with the ability to dim lights.
- Provide intercom/phone with volume control and privacy feature.
- Provide power for refrigerator.

Furniture, Fixtures and Equipment

- Provide comfortable furniture for employees to rest in, with enough flat surfaces to place their belongings.



SRO OFFICE

OBJECTIVES

To provide a space for a police officer assigned to the school.

CAPACITY

1 resource officer

DESIGN CONSIDERATIONS

Should be located in the administration area of the school, preferably close to the main or secondary entrance to the administrative area.

PHYSICAL REQUIREMENTS

Architectural Criteria

- Provide vinyl tile if accessed from Corridor. Provide carpet if accessed from Admin.

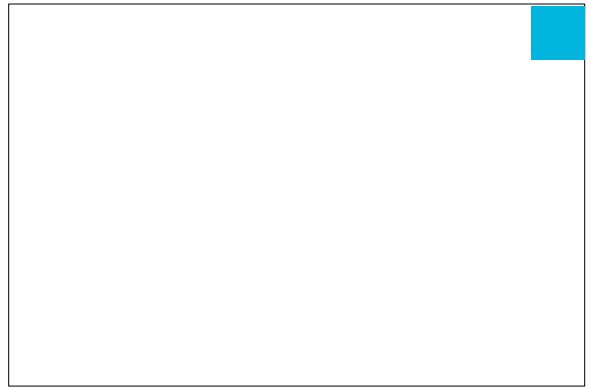
Mechanical Criteria

Electrical Criteria

- Provide two computer outlets, each adjacent to a quadruplex electrical outlet.
- Provide duplex electrical outlets elsewhere at 6' on center.
- Provide intercom/phone with volume control and privacy feature.

Furniture, Fixtures and Equipment

- Provide one 4'x6' tackboard.



CAFETERIA AND KITCHEN

OBJECTIVES

Nutrition programs play a vital role in the education of students. As a “partner in education” it is the role of child nutrition programs to make mealtime a pleasant experience by providing adequate dining and food preparation facilities which will encourage students to consume the nutritious meals needed for growth, development, and learning readiness. The dining area is sized for three seatings of the design student population.



CAPACITY

Student Population/Three Seatings

ACTIVITIES

Receiving food and associate kitchen materials and equipment in order to prepare food for student’s meals to include breakfast, lunch and occasional snacks and community events.

DESIGN CONSIDERATIONS

- Dining area: Located adjacent to the multi-purpose room with a movable partition to divide these two spaces acoustically insulated to minimize noise from the adjacent area.
- Serving area: Adjacent to kitchen and dining with easy access for supply or fresh food; accessible with appropriate counter heights.
- Food preparation: The food preparation and storage areas shall be accessible from a loading area to allow for deliveries of supplies and the removal of food debris.
- Dish wash area: Adjacent to dining room with traffic pattern not to interfere with serving lines.
- Manager’s office: Locate at rear of kitchen with full view of back door, storage entrances, and preparation areas. Window to outside with security screen.
- Employee restroom: Located adjacent to food preparation area opens to locker room.
- Locker room opens to kitchen with 10-12 double height lockers and associated closet for data
- Storage area: The food preparation and storage areas shall be accessible from a loading area to allow for deliveries of supplies and the removal of food debris. If storage is located directly next to a cooler or freezer, additional insulation is required to prevent possibility of mold.
- Separate security system for kitchen is recommended to allow early access by staff. Area to accommodate separate key pad zone
- Provide buzzer/doorbell at back entrance. Buzzer to “announce” in Kitchen near manager’s office
- Provide peephole on back door.
- Provide can wash facility with mop rack in delivery area and accessibility to dumpsters

PHYSICAL REQUIREMENTS

Dining Area:

- Provide 20 foot candles minimum. Dual switch to 40 foot candles of light is recommended for special occasions
- Provide additional wiring in walls for future satellite serving areas
- Provide 2 Ethernet ports and 2 electrical outlets over entrances to serving area for flat screen. See A&E Guide for current minimum requirements, typical.
- Provide ample electrical outlets
- Provide VCT Flooring
- Provide intercom
- Provide television connection – minimum of two at 18” AFF

- Provide minimum two computer network drops with adjacent quad power outlets
- Do not limit all dining to the inside of the building. Patios and outdoor gardens may be utilized for dining
- Plan windows that are at eye level and allow light to enter and provide a pleasant outside view
- Material selections for ceilings and walls should be as sound absorptive as possible to reduce noise. Flags and ceiling hangings can reduce noise levels
- Provide electric water cooler with bottle filler in Dining Area. Locate water cooler adjacent to Serving line.

Serving Area:

- 70 foot candles of light is recommended
- Electrical connections required for equipment
- Floor drains as required for equipment
- Data outlet paired with quadruplex outlet at each cashier
- Provide VCT floor
- Smooth durable washable wall surfaces

Food Preparation:

- 70 foot candles of light is recommended. Provide natural light whenever possible
- Provide quarry tile or epoxy floor
- Provide electrical wiring as required for all equipment.
- Floor drains or floor sinks to be provided as required for equipment
- Provide vertical closure panels over the top of all walk-in freezers and coolers. Locate floor drains for these coolers and freezers out of traffic path.
- Provide hand wash sinks, where required server, kiosk and kitchen locations. Provide soap and tri-fold paper towel dispensers at all hand wash sink locations.
- Kitchen hood area: The exhaust hood shall be stainless steel with adequate lighting. The water source under the hood shall have a vacuum breaker. The fire suppression system push-button activator shall be located near the entry/exit door. Include stainless steel utility chase and fire suppression system.
- The utilities for the equipment shall be arranged in such a way to facilitate easy cleaning behind the equipment.
- Drains are needed throughout, especially under the braising pan, icemaker, etc.
- The location of drains should be out of circulation paths and appropriate for use when the equipment is tilted and the water is draining, and so that steam from the drain does not interfere with operation (pilot lights, etc.) of other equipment.
- CO sensor with digital readout required in kitchen.
- Provide stand-alone HVAC system

Dish Wash Area:

- 70 foot candles are recommended
- Provide direct wiring of dish machine
- Provide hood with fan to draw steam out of area
- Provide water temperature 140 degrees to kitchen 180 degrees by booster heater on demand
- Provide garbage disposal
- Provide smooth durable washable wall surfaces
- Hose bibb shall be located in the dish room.
- Provide wall mounted fans in the dishwashing room and as directed by CMS.

Storage Area:

- 70 foot candles are recommended
- Dry storage area to be ventilated with fresh air venting system
- A notice board for menu, message, and other types of communication is essential
- Must have flexible shelving. When planning new storage rooms think in terms of rows of shelving with adequate aisles between.
- Provide 4' x 6' bulletin board for employee communication.
- Rows of shelving with adequate aisles between are desired.
- Provide quarry tile floor
- Provide smooth durable washable wall surfaces

Manager's Office:

- 70 foot candles are recommended
- Provide ample electric outlets
- Provide 3'x 4' bulletin board.
- Provide smooth durable washable walls
- Provide 2 Data outlets paired with quadruplex outlets
- Provide intercom/phone with volume control and privacy feature.
- Provide telephone connection with kitchen speaker-bell

Internal cold storage freezer and cooler

Provide all kitchen food preparation equipment as specified by A&E Guidelines.

Provide 1" mini-blinds for windows, typical

Provide recycling area with bins in kitchen, delivery area, and cafeteria dining area

PLANT OPERATIONS

OBJECTIVES

To provide space for the activities involved with Plant Operations and Maintenance on a day to day basis

DESIGN CONSIDERATIONS

- Custodial/storage rooms should be located near opposite ends of the floor plan to provide convenient distances to all classrooms and storage areas as well as trash pick-up and recycling areas.
- Laundry should be located near one of the custodial rooms
- Loading area should be located adjacent to the kitchen-cafeteria area
- Storage room located near loading dock for central receiving and staging

PHYSICAL REQUIREMENTS

- Each custodial/storage room should contain a mop sink, mop rack, and shelving
- Outdoor storage will be provided by owner, post occupancy and should be added to the site plan for location of circulation and security. Outdoor storage should be oriented towards the play fields. Provide concrete pad and appropriate driveway and sidewalk access and/or ramp to future storage container



CUSTODIAL ROOMS

OBJECTIVES

To provide space for the storage of supplies and equipment used on a day to day basis

DESIGN CONSIDERATIONS

- Custodial/storage rooms should be located near opposite ends of the floor plan to provide convenient distances to all classrooms and storage areas as well as trash pick-up and recycling areas.
- Laundry should be located near one of the custodial rooms
- Loading area should be located adjacent to the kitchen-cafeteria area
- Storage room located near loading dock for central receiving and staging



PHYSICAL REQUIREMENTS

- Each custodial/storage room should contain a mop sink, mop rack, and shelving
- Outdoor storage will be provided by owner, post occupancy and should be added to the site plan for location of circulation and security. Outdoor storage should be oriented towards the play fields. Provide concrete pad and appropriate driveway and sidewalk access and/or ramp to future storage container
- Provide at least one main custodial room in a central location, large enough to accommodate floor buffing machines and include (1) data and quad power receptacles, intercom (handset and speaker), telephone outlet and coat hook on back of door.
- Remote custodial rooms shall include a 24" x 24" mop sink with stainless steel backsplash, mop rack, and 24" deep metal shelving.
- One custodial room to have washer/dryer; vent dryer to exterior.
- Spaces to receive sealed concrete floor finish and CMU walls.
- Ceiling to be acoustical tile or open to structure.
- Hot and cold water, ventilation per code.
- Rooms to be lockable.
- Provide additional shelving in each Custodial Room for storage of attic stock materials, per the A/E Guide.

STAFF TOILETS

OBJECTIVES

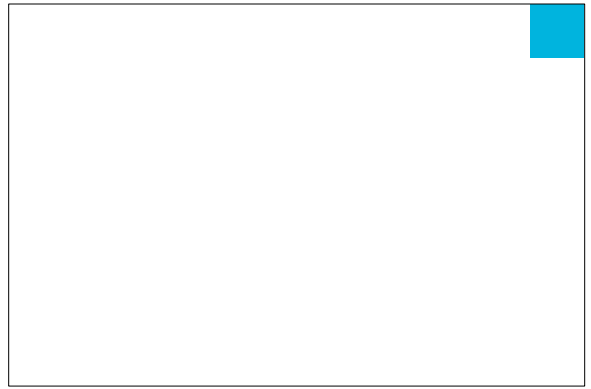
To provide space for toilets facilities for staff

DESIGN CONSIDERATIONS

- Staff toilet rooms should be located evenly throughout the building

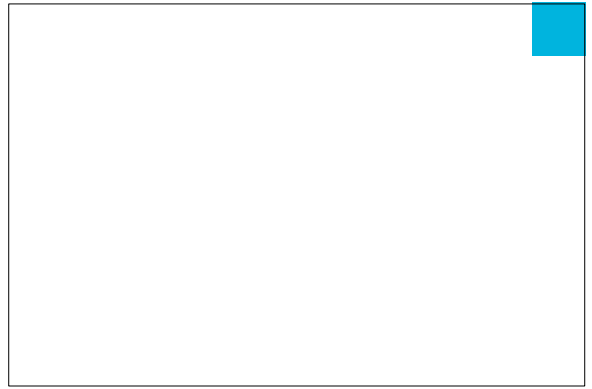
PHYSICAL REQUIREMENTS

- Provide ADA compliant mirror over ADA sink
- Provide a full height mirror on the wall.
- Porcelain tile floor and base
- The preference is for the door to swing out
- Provide a GFCI outlet
- Ceiling to be gypsum or scrubbable ceiling panels



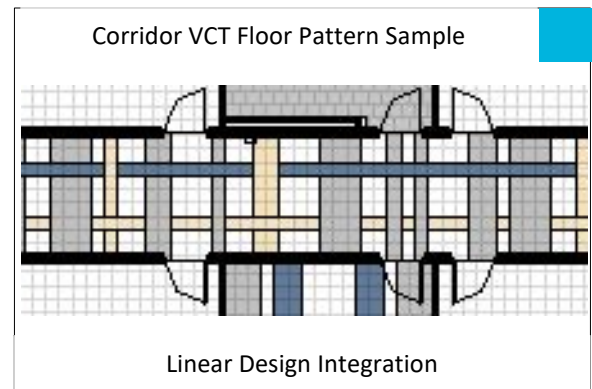
OUTDOOR AREA

- Provide outside paved area with four basketball goals, typically bus lot.
- Provide two play fields (approximately 60 yds. x 110 yds.). One additional Pre-K playground to be provided on campus if Pre-K classes are incorporated into teaching curriculum for the school
- Provide two separate areas for two sets of playground equipment, each approximately 60' x 60'. One for kindergarten through second graders, the other for third through fifth graders with appropriately sized equipment. Each playground to have appropriate drainage pits and accessible paths of travel from the school
- Provide concrete pad and accessible route to Conex storage container. Container and pad to be enclosed with fencing and double gate.
- Provide one 10'-12' wide track of striped asphalt approximately 400 meters around bus lot for measured distances fitness testing
- Provide accessible routes to all play areas
- Provide fencing at areas with greater than 3 to 1 slope to prevent balls and equipment from rolling away.



CORRIDOR

- Provide a linear design integrated into Corridor VCT floor pattern to have markings for the students to use to line up in the Corridor.
- Corridors and Main Lobby shall use lay-in acoustical panels. Gypsum wallboard may be used as an accent. Consider exposed painted structure on a case-by-case basis.
- Provide an outlet at least every 50' in Corridors.
- Locate switches for Corridors in an Office, a Workroom, or a similar area not subject to student's tampering.
- Key operated switches may be appropriate in Corridors of Building Additions.
- Cable trays shall be provided in Corridors per A/E Guide.
- Bulkheads are acceptable to break up very long corridor ceilings as well to use for MEP or structural transitions from one side to another. Minimum height of bulk heads should be high enough that they do not interfere with the security camera vision down hallways to the next camera zone/location.
- Accent paint colors are acceptable in corridors if located above the door frame height to minimize future touch ups. Avoid bright colors on door frames.
- Room signage required at all doors.
- Provide 4' tack board at each classroom to allow the teacher to personalize his/her learning environment/curriculum.



LIST OF REVISIONS

Heading	Page	Revision	Rev. Date
1. Team Area	19	Noted to provide a copier alcove, with copier data & power reqts.	11/12/19
2. Gymnasium	38	Added note to locate scoreboard on end wall behind the main goal	11/18/19
3. List of Revisions	1	Added List of Revisions to Facility Program for tracking changes	03/24/20
4. Wellness Room	57	Revised K-8 Wellness Room to indicate single room configuration	03/24/20
5. Science Classroom	15	Added size of microscopes to be stored in science cabinets	05/12/20
6. Gen. Clrm. - Gr. K-1 st	7	Casework Elevations revised. Cubby qty. revised from 30 to 24-26.	06/11/20
7. Gen. Clrm. - Gr. 2 nd -5 th	8	Casework Elevations revised. Cubby qty. revised from 30 to 24-26.	06/11/20
8. Resource Room	15	Casework Elevation added.	06/11/20
9. Team Area	16	Casework Elevation added.	06/11/20
10. Flex Use Room	18	Casework Elevation added.	06/11/20
11. Visual Arts Classroom	26	Casework Elevation added.	06/11/20
12. Media Center Workroom	33	Casework Elevations added.	06/11/20
13. Makerspace	37	Casework Elevation added.	06/11/20
14. Workroom	49	Casework Elevations added.	06/11/20
15. Faculty Breakroom	51	Page added for Faculty Breakroom, with Casework Elevation.	06/11/20
16. Health Room	53	Casework Elevation added.	06/11/20
17. Parent Center	56	Casework Elevation added.	06/11/20
18. Wellness Room	57	Casework Elevation added.	06/11/20
19. Principal's Office	44	Deleted requirement for TV connection and wall bracket	06/29/20
20. Gen. Clrm. - Gr. K-1 st	7	Casework Elevations revised; teacher's wardrobe added.	09/01/20
21. Modified Restroom	21	Casework Elevation added. Wall cabinet added above base cabinet.	09/01/20
22. Workroom	49	Casework Elevations updated.	10/26/20
23. Makerspace	37	Casework Elevation updated.	10/26/20
24. Media Center Workroom	33	Casework Elevations updated.	10/26/20
25. Modified Restroom	21	Casework Elevation updated.	10/26/20
26. Resource Room	15	Casework Elevation updated.	10/26/20
27. Health Room	53	Casework Elevation updated.	10/26/20
28. Team Area	16	Casework Elevation updated.	10/26/20
29. Flex Use Room	18	Casework Elevation updated.	10/26/20
30. Parent Center	56	Casework Elevation updated.	10/26/20
31. Wellness Room	57	Casework Elevation updated.	10/26/20
32. Faculty Breakroom	51	Casework Elevation updated.	10/26/20
33. Media Center	33	Media desk details added.	11/16/20

34. Team Area	19	Refrigerator added (to be included in GC contract)	02/10/21
35. Health Room	53	Mini-fridge indicated to be ADA, and included in GC contract	02/10/21
36. Corridor	66	Page added for Corridors	03/22/21
37. Gymnasium	38	Revised bleacher capacity to reference A/E Guide	02/24/21
38. Dance/Theater Arts	31	Note added for Owner to provide current "Perf. Arts Equip. List"	06/25/21
39. Choral/Instr. Music	33	Note added for Owner to provide current "Perf. Arts Equip. List"	06/25/21
40. MultiPurpose Room	40	Changed climbing wall reference; deleted 15' high ceiling in Stor. Rm.	09/03/21
41. Visual Arts Classroom	26	Arch. Criteria and FF&E updated. Casework Elevations updated.	10/26/20
42. Student Records	50	Noted to be adjacent to Student Services and Fin. Secretary Offices	11/02/21
43. Reception/Sec's. Area	42	Noted to provide space for 2 work stations behind counter	11/02/21
44. Cafeteria and Kitchen	59	Added electric water cooler with bottle filler in Dining Area	12/03/21
45. Custodial Rooms	63	Shelving added for attic stock materials storage per A/E Guide	12/03/21
46. Choral/Inst. Music Room	33	Moved location of utility sink to inside Band/Percussion Stor. Room	12/13/21
47. Media Center	35	Deleted Conference Room from Media Center	01/20/22
48. Gymnasium	38	Laundry Room added at 150 SF, for washer, dryer and ice maker	04/21/22
49. Wellness Room	57	Clarified under-counter refrigerator to be by Contractor	06/20/22
50. Modified Restroom	21	Updated grab bar length, lockset indicator, changing table type	07/25/22
51. Makerspace	78	Description expanded and list of Owner-provided equipt. added	05/01/23
52. Gymnasium	38	Revised basketball court from 74'L to 84'L.	08/03/23
53. Dance/Theater Arts	31	Changed reference for fluorescent lights to LED lights	08/11/23
54. Program of Spaces	3, 4	Note added for 2 of the (12) K-1 Clrms to be licensed Pre-K	09/06/23