

| | |
|-------------------------------------|---|
| PURPOSE | The purpose of this Chapter is to provide the school district and the Design Professional with the guidelines and relationships for the Elementary School spaces identified in Chapter 2: Bracketing. |
| INTRODUCTION | <p>This Chapter begins with an overall building diagram showing how the various areas of a school could be arranged. The diagram is meant only to demonstrate the relationships between various parts of the building.</p> <p>Along with the overall building diagram, there are various program area diagrams throughout this chapter which demonstrate how specific spaces may relate to each other within a particular program area.</p> |
| NO SMOKING SIGNS | As required by the Ohio Revised Code, post “No Smoking” signs at every entrance door into the building. If a door is for exit only, there is no need for a sign. Post the signs on entrance glass or other appropriate surface. Signs shall contain a telephone number for reporting violations. (866/559-6446) |
| DIAGRAM | Diagrams of the space have been developed to show how some of the features and loose furnishings may be organized. The space is not required to be designed in the configuration shown. |
| PROGRAM ACTIVITIES | Program activities indicate the type of activities that may occur in the space. These activities will vary from school district to school district depending on the educational program. |
| SPATIAL RELATIONSHIPS | Relationships of a particular room to other spaces and activities have been identified to assist the Design Professional in the design of the facility. |
| ENVIRONMENTAL CONSIDERATIONS | Environmental considerations are items that may affect the educational program. They are the basis of some requirements of Finishes, Features, Plumbing, HVAC, Electrical, and Technology. <i>Storage rooms shall not be required to be exhausted if there is no objectionable transfer (odors or hazardous gas) to adjacent spaces.</i> |
| FINISHES | The finishes stated for the spaces have been developed based on the function of the room. The spaces adjacent to the room or a building system may change the finishes stated. |
| OPERABLE WINDOWS | Operable windows are optional in exterior window fenestration. |
| LIGHTING | Interior lighting shall be controlled by occupancy sensors, automatic timed lighting controlled system or a combination of both to comply with ASHRAE 90.1. Exterior lighting shall be controlled by photosensor or astronomical time clock to comply with ASHRAE 90.1. to automatically turn lighting off when sufficient daylight is available. |
| AREA | Square foot area given for the room is the necessary area. This area is given in net square feet – defined as the area within the walls of the room. |

INTRODUCTION

CHAPTER 4: ELEMENTARY SCHOOL

LOOSE FURNISHINGS

Loose furnishings are to be funded by the Ohio School Facilities Commission. The loose furnishings requirements are to be coordinated with the district's educational program. As an example, some spaces may require tables with student chairs and other spaces may require student desks with chairs.

* The intent of the loose furnishings shown on the space plates is not necessarily to be all-inclusive of furniture options or mandate items which may not be needed in a particular district, but rather to provide a general concept of how a particular space could be laid out. Some items listed as loose furnishings could be provided as fixed casework and items listed as fixed casework, if appropriate, could be provided as loose furnishings depending on the building design and types of technology used. Construction and loose furnishings budgets should be coordinated appropriately.

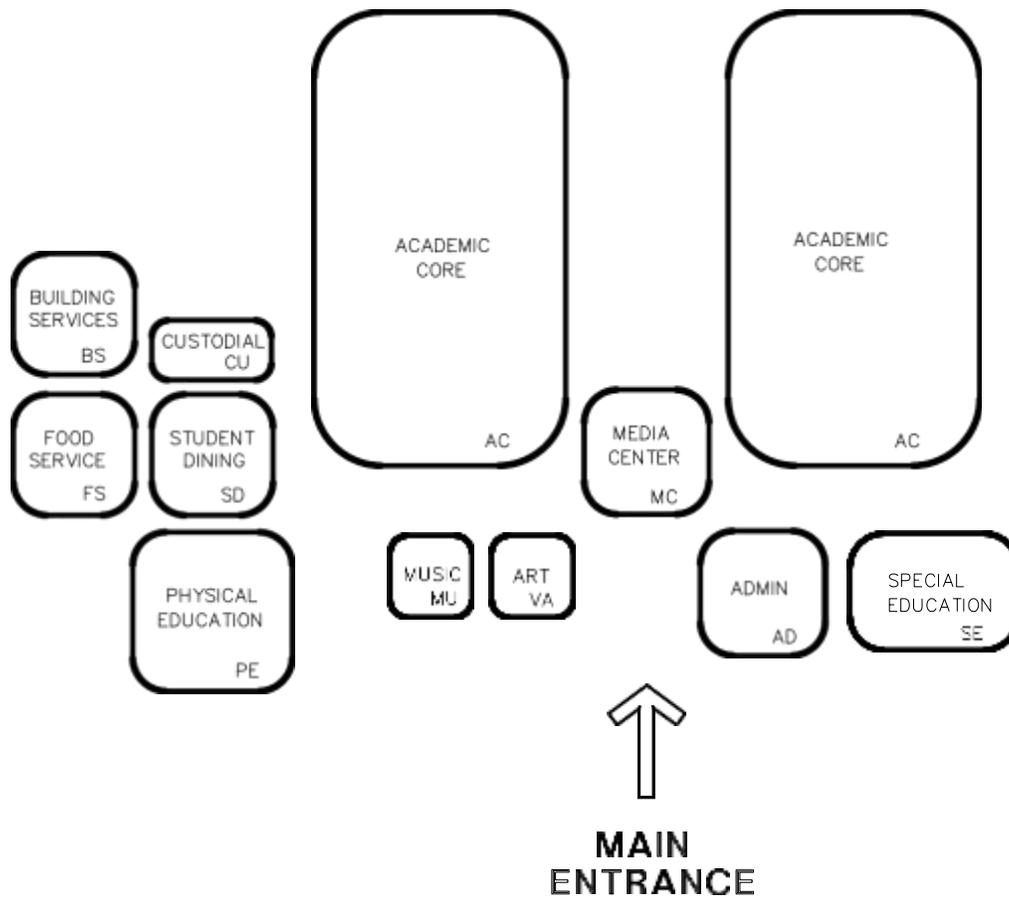
FEATURES

Features identified on the space plates are recommended for these rooms. These features include Fixed Items, Plumbing, Heating, Ventilating and Air Conditioning, Electrical, and Technology systems as well as Miscellaneous Items. Exact sizes of items may need to be modified slightly to interface with the exact size and proportions of the actual space.

Casework and Visual Display Boards should reflect the needs of the district's educational program. The intent of this list is not to mandate casework or visual display boards that may not be needed by a particular district, but rather to be used as a guideline for items that are generally used in this type of space. Some items listed as "fixed casework" could also be provided by mobile casework or loose furnishings if appropriate. Construction and loose furnishings budgets should then be adjusted appropriately.

TECHNOLOGY

The location of projectors, in spaces where required, shall be carefully coordinated between the Design Professionals in relation to the projection surface and ADA requirements. Note that classroom projectors are required to be ultra-short throw interactive projectors (refer to Section 274119). Classroom instructor AV interfaces and AV equipment are to be comprised of digital systems. Coordination is required between the Design Professionals to accommodate the digital solution that is selected by the District. Refer to Section 271543 and Figure 1, within that section, for a general overview of classroom equipment and interconnectivity requirements. The District's Digital Media Management System requires Design Professionals coordination for adequate dedicated rooftop space for current and potential future system antennas for incorporation of digital broadcast media sources as selected by the District (refer to Section 274125). Design Professionals should especially note that the classroom's dedicated 4 student data ports and associated work stations have been removed. A robust Wireless Local Area Network (WLAN), capable of supporting 1:1 and/or Bring Your Own Device (BYOD) throughout all educational areas is now required. Refer to Section 272133 for all of the new requirements for the District's WLAN.

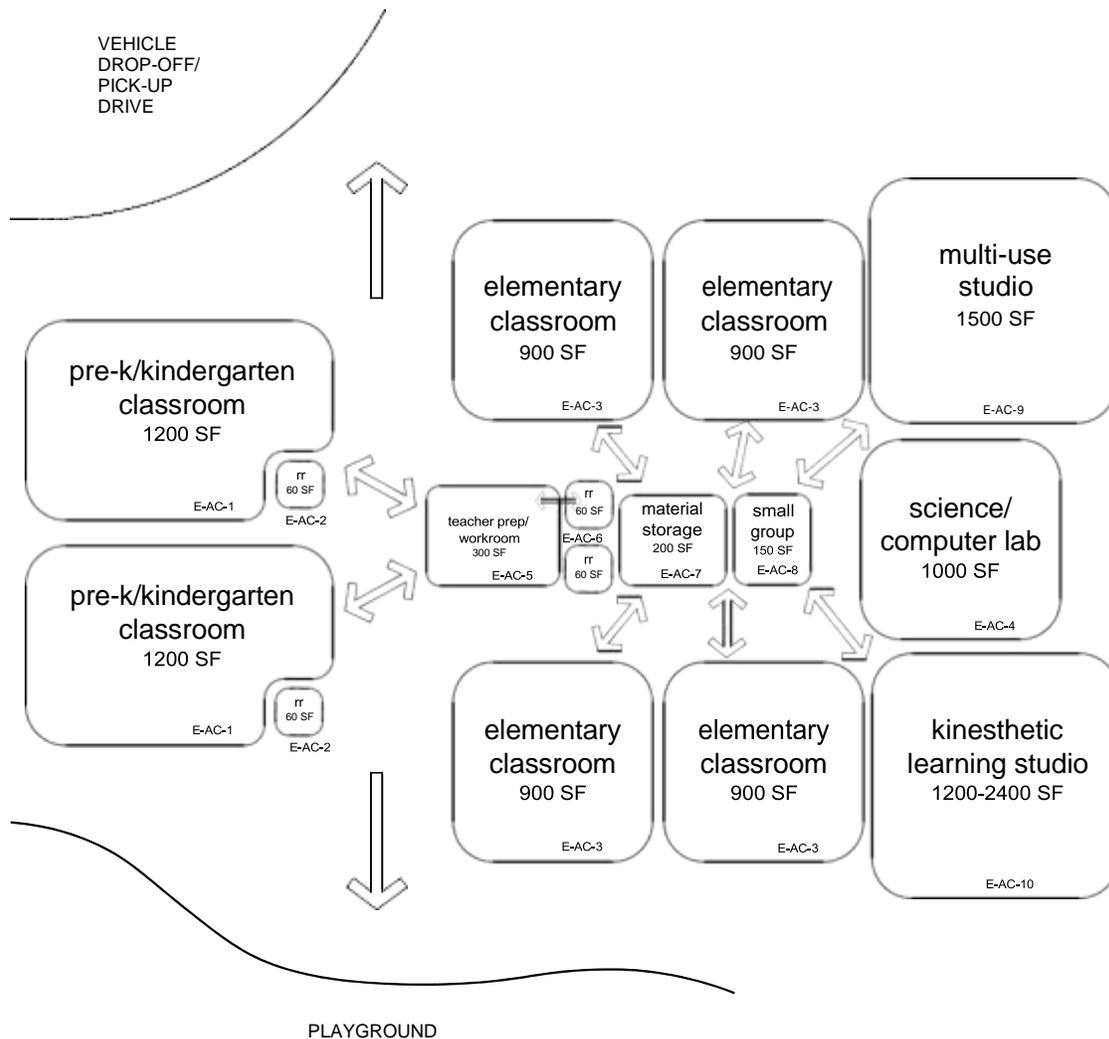
**NOTES:**

This is an example of how the spaces in an elementary school could be arranged. This is meant only to demonstrate the relationships between various areas of this building.

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ACADEMIC CORE SPACES E-AC

CHAPTER 4: ELEMENTARY SCHOOL



NOTES:

This is an example of how the academic core spaces in an elementary school could be arranged. This is meant only to demonstrate the relationships between various spaces of this area.

Following are the Academic Core space plates:

| | |
|----------------|------------------------------------|
| E-AC-1 | Pre-K/Kindergarten Classroom |
| E-AC-2 | Pre-K/Kindergarten Restroom |
| E-AC-3 | Elementary Classroom |
| E-AC-4 | Science/Computer Lab |
| E-AC-5 | Teacher Prep Area/Workroom |
| E-AC-6 | Individual Restroom |
| E-AC-7 | Instructional Material Storage |
| E-AC-8 | Small Group Room |
| E-AC-9 | Multi-Use Studio |
| E-AC-10 | Kinesthetic Learning Studio |

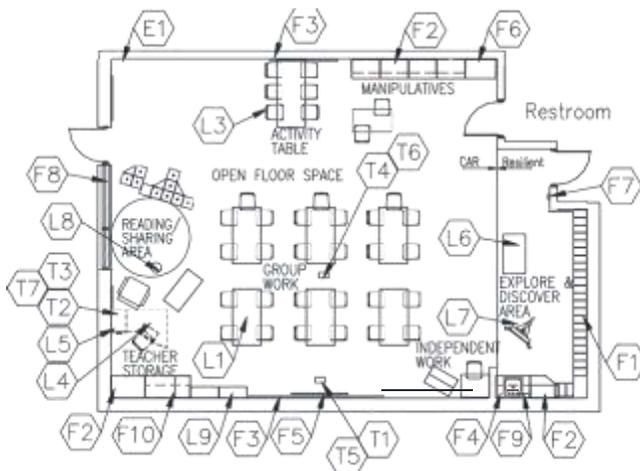
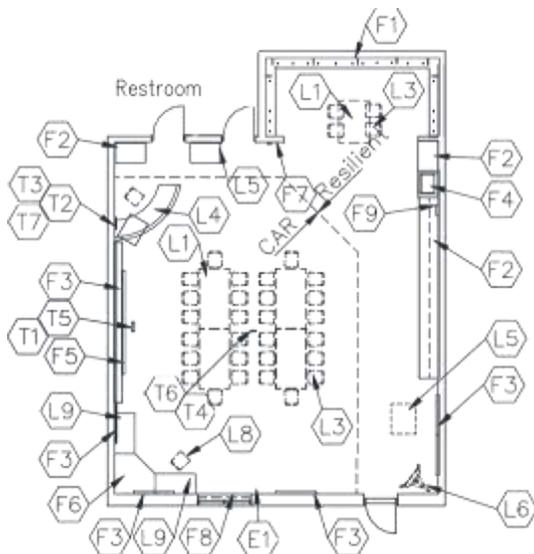
ACADEMIC CORE SPACES

A. C

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**PRE-K/KINDERGARTEN CLASSROOM
E-AC-1**

CHAPTER 4: ELEMENTARY SCHOOL



CAPACITY: 25 students
 SIZE: 1,200 SF
 ANCILLARY SPACES: Pre-K/Kindergarten
 Restroom
 E-AC-2

PROGRAM ACTIVITIES:

- Kindergarten instruction through active exploration
- Children practice with tangible articles and are encouraged to develop learning skills, creativity, and imagination.
- Activities include, but are not limited to: group discussions, demonstrations, music activities, listening skills, gross motor skills, art and science projects, and small group activities.

SPATIAL RELATIONSHIPS:

- Near other pre-k/kindergarten classrooms
- Near teacher prep area/workroom
- Direct access to outdoor playground or access through adjacent corridor
- Near vehicle drop-off/pick-up drive
- Adjacent to pre-k/kindergarten restroom

ENVIRONMENTAL CONSIDERATIONS:

- Required: View glass – minimum 5% without daylighting design; minimum 3% with daylighting design.
 Recommended: Daylighting design with glazing area determined by design solution.
- Environmental sound control –
 wall only minimum STC 45
 ceiling minimum CAC 35, NRC 0.70
- Resilient and stain-resistant floor covering
- Ergonomically appropriate furniture and equipment heights

NOTES:

1. Loose furnishings shown represent one of many possible configurations based on educational program.
2. Depending upon the educational program of the district, a tall wardrobe may be located in this classroom or could be placed in a teacher prep area/workroom.
3. Second exit from space to meet code need not open to exterior.

**PRE-K/KINDERGARTEN CLASSROOM
E-AC-1**

CHAPTER 4: ELEMENTARY SCHOOL

| <u>FINISHES¹:</u> | Spec. Ref.# | <u>FEATURES¹:</u> | Spec. Ref.# |
|--|----------------------|---|----------------------|
| <u>Flooring:</u> | | <u>Fixed Items:</u> | |
| Combination carpet, carpet tile, with resilient options | 096816 096500 | F1 Open casework - student coats and personal items, (cubbies) (optional wall cabinets above) | 123550 |
| Optional: All linoleum, ET, sheet vinyl, or rubber | 096516 096813 | F2 18'-24' combination tall wardrobe, base and wall cabinets | 123550 |
| <u>Base:</u> | | F3 28'-36' combination marker board, tack board, & tackable surface | 123550 |
| Resilient base | 096500 | F4 3' sinkbase cabinet | 123550 |
| <u>Ceiling:</u> | | F5 Projection screen (optional) | 115213 |
| Suspended, acoustical | 095113 | F6 Technology support casework (could be mobile) | 123550 |
| <u>Walls:</u> | | F7 Pencil sharpener support (optional) | 062000 |
| Paint | 099100 | F8 Window with integral blinds | 085113 |
| | | F9 Towel dispenser (optional) | 102813 |
| | | F10 36"- 42" high storage cabinet | 123550 |
| | | <u>Fire Suppression:</u> | |
| | | Fire suppression system | 211000 |
| | | <u>Plumbing:</u> | |
| | | Sink with drinking fountain | 224000 |
| | | Plumbing connections | |
| <u>LOOSE FURNISHINGS:</u> | | <u>HVAC:</u> | 224000/221116/221119 |
| L1 Student desks/tables | | | |
| L2 Reserved | | | |
| L3 Student chairs | | Supply/return air system | Div. 23 |
| L4 Teacher workstation/computer support and chair (fixed or mobile) | | Independent temperature control | 230923 |
| L5 File cabinet | | <u>Electrical:</u> | |
| L6 Sand/water table | | Fluorescent lighting | 265100 |
| L7 Children's painting easel | | Illumination level: See Table 8600-5 | |
| L8 Teacher reading chair or stool | | Multilevel switching | 262726 |
| L9 8'-10' of low bookcases (fixed or mobile) | | 4 duplex receptacles | 262726 |
| Loose carpet/rug (optional) | | Double duplex receptacle adjacent to each data and video port | 262726 |
| Wastebasket | | Emergency lighting | 265100 |
| | | Means of egress lighting per code | 265100 |
| | | <u>Communications:</u> | |
| | | T1 1 projector video port | 271543 |
| | | T2 1 voice port and phone | 271513/273123 |
| | | T3 1 data port | |
| <u>Electronic Safety and Security:</u> | | T4 near teacher workstation | 271513 |
| Life safety devices per code | 283111 | Wireless access point cable above ceiling | 271513 |
| <u>Miscellaneous:</u> | | Central sound system | 275123 |
| Pencil sharpener (optional) | | Clock | 275313 |
| | | Sound reinforcement system | 275127 |
| E1 Duplex receptacle with dedicated circuit for wireless devices | | T5 Ultra-short throw interactive projector | 274119 |
| | | T6 Wireless access point (WAP) as | |

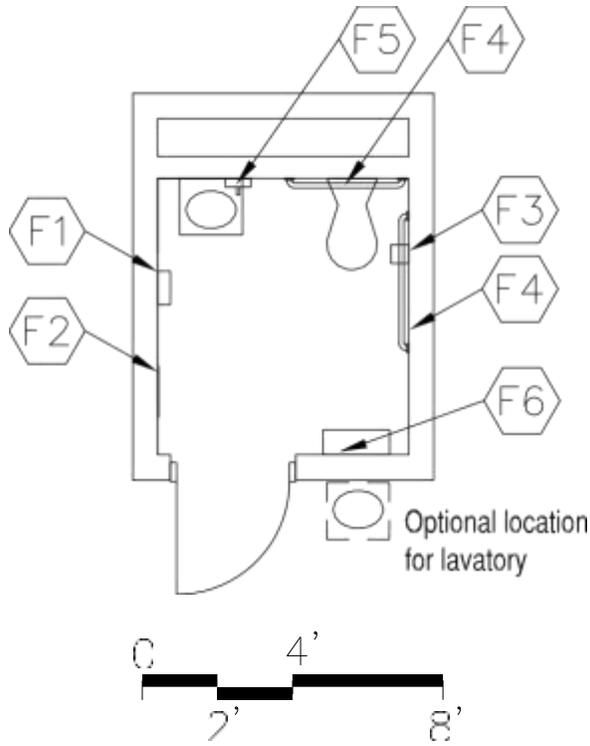
NOTES:

T7 Classroom technology center video port
271543, 274116, 274119, 275127

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Technology components may be placed in a separate small cabinet, or integrated in the other casework in the room.
3. Where appropriate, some casework may be mobile to add flexibility and become part of loose furnishings.
4. Baseline includes WAP cable per classroom. WAP device quantity/placement per 272133 requirements.

**PRE-K/KINDERGARTEN RESTROOM
E-AC-2**

CHAPTER 4: ELEMENTARY SCHOOL



PROGRAM ACTIVITIES:

- Personal and health needs for kindergarten students

SPATIAL RELATIONSHIPS:

- Adjacent to and only accessible from Pre-K/ Kindergarten Classroom

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
wall minimum STC 48
ceiling minimum CAC 35, NRC 0.70
- Moisture- and stain-resistant finishes

CAPACITY: 1 person
 SIZE: **60** SF
 ANCILLARY SPACES: Pre-K/Kindergarten Classroom
 E-AC-1

NOTES:

**PRE-K/KINDERGARTEN RESTROOM
E-A C-2**

CHAPTER 4: ELEMENTARY SCHOOL

| <u>FINISHES¹:</u> | Spec. Ref.# | <u>FEATURES¹:</u> | Spec. Ref.# |
|--|----------------|--|----------------------|
| <u>Flooring:</u> | | <u>Fixed Items:</u> | |
| ET or | 096516 | F1 Towel dispenser | 102813 |
| sheet vinyl | 096500 | F2 24" x 60" mirror | 102813 |
| Optional: ceramic mosaic tile, | 093000 | F3 Toilet tissue holder | 102813 |
| porcelain tile, or | 096723 | F4 36" and 42" grab bar | 102813 |
| resinous flooring | | F5 Soap dispenser | 102813 |
| | | F6 Changing station (optional) | 102813 |
| <u>Base:</u> | | <u>Fire Suppression:</u> | |
| Resilient base | 096500 | Fire suppression system | 211000 |
| Optional: ceramic mosaic tile, | 093000 | | |
| porcelain tile, resinous flooring, 096723 or | | | |
| integral vinyl cove base | | <u>Plumbing:</u> | |
| | | Wall-mounted water closet | 224000 |
| | | Wall-mounted lavatory | 224000 |
| | | Plumbing connections | 224000/221116/221119 |
| <u>Ceiling:</u> | | | |
| Suspended, acoustical | 095113 | | |
| | | <u>HVAC:</u> | |
| <u>Walls:</u> | | Exhaust air system | Div. 23 |
| Painted concrete masonry units | 042000/099100 | Supplemental heat as required | Div. 23 |
| | | | |
| <u>LOOSE FURNISHINGS:</u> | | <u>Electrical:</u> | |
| Wastebasket | | Single level switching | 262726 |
| | | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-5 | |
| | | <u>Communications:</u> | |
| | | Central sound system | 275123 |
| | | <u>Electronic Safety and Security:</u> | |
| | | Life safety devices per code | 283111 |
| | | <u>Miscellaneous:</u> | |
| | | N/A | |

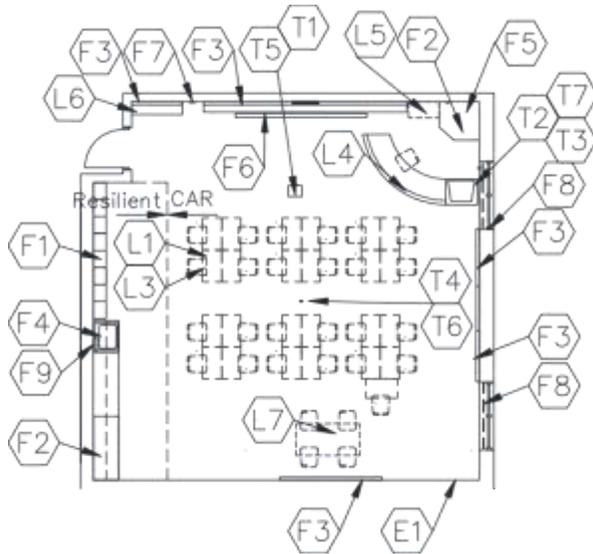
NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.

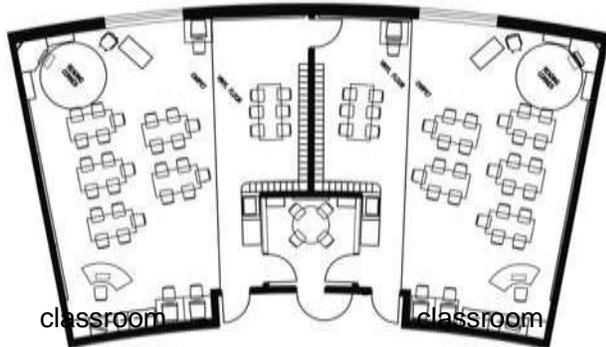
ELEMENTARY CLASSROOM

CHAPTER 4: ELEMENTARY SCHOOL

E-AC-3



small group room
or tutor room -
part of classroom tolerance



CAPACITY: 25 students
SIZE: 900 SF

PROGRAM ACTIVITIES:

- Developmental experiences, technical skill building, and hands-on activities
- Activities include, but are not limited to: group discussions, demonstrations, music activities, listening skills, presentations, art and science projects, and small group activities.

SPATIAL RELATIONSHIPS:

- Near other elementary classrooms
- Near large group restrooms
- Near teacher prep area/workroom
- Access to outdoor playground

ENVIRONMENTAL CONSIDERATIONS:

- Required: View glass – minimum 5% without daylighting design; minimum 3% with daylighting design.
Recommended: Daylighting design with glazing area determined by design solution.
- Environmental sound control –
wall only minimum STC 45
ceiling minimum CAC 35, NRC 0.70
- Resilient and stain-resistant floor covering

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.
2. Depending upon the educational program of the district, a tall wardrobe may be located in this classroom or could be placed in a teacher prep area/workroom.

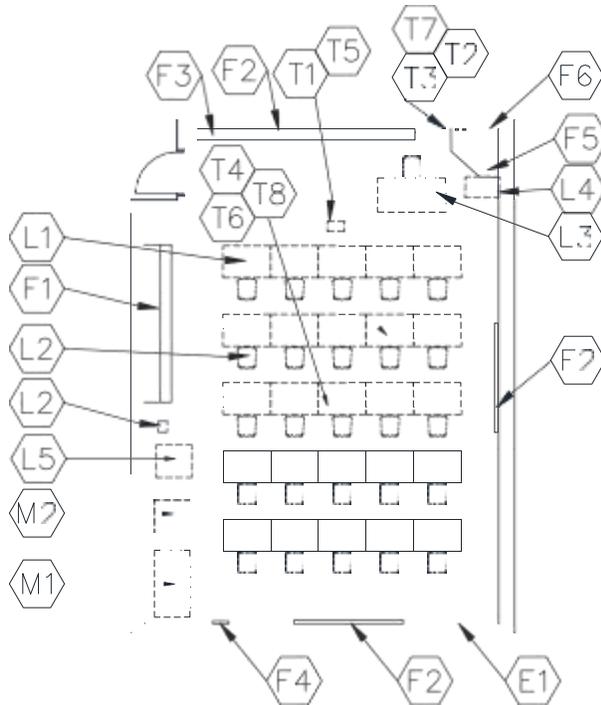
**ELEMENTARY CLASSROOM
E-A C-3**

CHAPTER 4: ELEMENTARY SCHOOL

| | Spec. Ref.# | | Spec. Ref.# |
|--|------------------|--|--------------------------------|
| FINISHES¹: | | FEATURES¹: | |
| Flooring: | | Fixed Items: | |
| Combination carpet, carpet tile, with resilient options | 096816 096500 | F1 Open casework – student coats and personal items, “cubbies” for grades 1,2,3 (optional wall cabinets above) | 123550 123550 |
| Optional: All linoleum, ET, sheet vinyl, or rubber | 096516 096813 | F2 9'-12' combination tall wardrobe, base and wall cabinets | 123550 |
| Base: | | F3 22'-36' combination marker board, tack board and tackable wall surface | 123550 |
| Resilient base | 096500 | F4 3' sinkbase cabinet | 123550 |
| Ceiling: | | F5 Technology support casework | 123550 |
| Suspended, acoustical | 095113 | F6 Reserved | |
| Walls: | | F7 Pencil sharpener support (optional) | 062000 |
| Paint | 099100 | F8 Windows with integral blinds | 085113 |
| | | F9 Towel dispenser (optional) | 102813 |
| | | F10 Projection screen (optional) | 115213 |
| LOOSE FURNISHINGS: | | Fire Suppression: | |
| L1 Student desks/tables | | Fire suppression system | 211000 |
| L2 Reserved | | Plumbing: | |
| L3 Student chairs | | Sink with drinking fountain | 224000 |
| L4 Teacher desk or workstation/computer support and chair | | Plumbing connections | 224000/221116/221119 |
| L5 File cabinet | | HVAC: | |
| L6 8'-10' of low bookcases (fixed or mobile) Loose carpet/rug | | Supply/return air system | Div. 23 |
| L7 Reading table | | Independent temperature control | 230923 |
| Wastebasket | | Electrical: | |
| SCIENCE | | Fluorescent lighting | 265100 |
| Optional items for science teaching center (in one of elementary classrooms): | | Illumination level: See Table 8600-5 | |
| • Mobile demonstration unit with portable water supply and sink | | Multilevel switching | 262726 |
| • (2)-(3) mobile storage cabinets for science equipment and materials | | 4 duplex receptacles | 262726 |
| | | Double duplex receptacle adjacent to each data and video port | 262726 |
| Electronic Safety and Security: | | Communications: | |
| Life safety devices per code 283111 | | T1 1 projector video port | 271543 |
| Miscellaneous: | | T2 1 voice port and phone | 271513/273123 |
| Pencil sharpener (optional) | | 1 data port | |
| M1 Operable partitions are optional between classrooms with tackboard/ markerboard surface | 102226 | near teacher workstation | 271513 |
| E1 Duplex receptacle with dedicated circuit for wireless devices | | T4 Wireless access point cable above ceiling Central sound system | 275123 275313 |
| | | Clock | 275313 |
| | | Sound reinforcement system | 275127 |
| | | T5 Ultra-short throw interactive projector | 274119 |
| | | T6 Wireless access point (WAP) as determined by Design – refer to Note 5 | 272133 |
| | | T7 Classroom technology center video port | 271543, 274116, 274119, 275127 |

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Option for Features (F1): lockers in classroom or corridor for grades 4 and 5 only.
3. Technology components may be placed in a separate small cabinet, or integrated in the other casework in the room.
4. Where appropriate, some casework may be mobile to add flexibility and could become part of loose furnishings.
5. Baseline includes WAP cable per classroom. WAP device quantity / placement is per 272133 requirements



PROGRAM ACTIVITIES:

- Contains computer workstations for group instruction and individual work
- Activities include computer instruction, media production, and individual project work

SPATIAL RELATIONSHIPS:

- Near reading room/circulation
- Near media specialist office
- Near academic core classrooms

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control - wall only minimum STC 45
ceiling minimum CAC 35, NRC 0.70

MISCELLANEOUS:

- Due to the changing nature of technology, a computer lab is to be designed for flexibility of use.

CAPACITY: 25 students
SIZE: 1,000 SF

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.

**SCIENCE/COMPUTER LAB
E-AC-4**

CHAPTER 4: ELEMENTARY SCHOOL

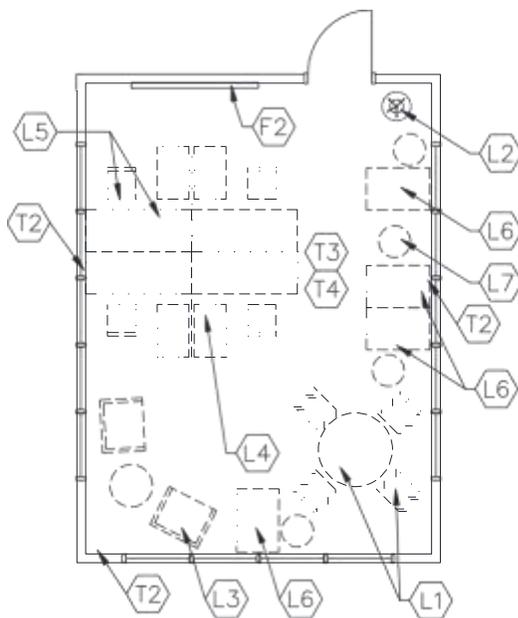
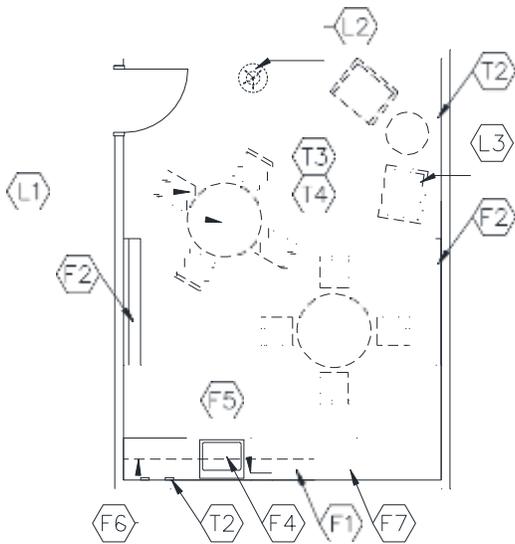
| <u>FINISHES¹:</u> | Spec. Ref.# | <u>FEATURES¹:</u> | Spec. Ref.# |
|---|----------------------------|--|--------------------------------|
| <u>Flooring:</u> | | <u>Fixed Items:</u> | |
| Carpet, ET, sheet vinyl, or carpet tile | 096816 096500 096813 | F1 4'-16' of base & wall cabinets | 123550 |
| <u>Base:</u> | | F2 18'-28' combination marker board, tack board and tackable wall surface | 101100 |
| Resilient base | 096500 | F3 Projection screen (optional) | 115213 |
| <u>Ceiling:</u> | | F4 Pencil sharpener support (optional) | 062000 |
| Suspended, acoustical | 095113 | F5 3' of tall wardrobe with file drawers | 123550 |
| <u>Walls:</u> | | F6 Technology support casework | 123550 |
| Paint | 099100 | <u>Fire Suppression:</u> | |
| <u>LOOSE FURNISHINGS:</u> | | Fire suppression system | 211000 |
| L1 Computer workstation furniture (could be fixed) | | <u>Plumbing:</u> | |
| L2 Student chairs | | N/A | |
| L3 Teacher desk/computer support and chair | | <u>HVAC:</u> | |
| L4 File cabinet | | Supply/return air system | Div. 23 |
| L5 Printer / scanner stand | | Independent temperature control | 230923 |
| Wastebasket | | <u>Electrical:</u> | |
| <u>Miscellaneous:</u> | | Fluorescent lighting with computer aided lenses | 265100 |
| Pencil sharpener (optional) | | Illumination level: See Table 8600-5 | |
| The following items are to be funded by the school district: | | Multilevel switching | 262726 |
| M1 Classroom area network file server | | 4 duplex receptacles | 262726 |
| M2 Printer | | Double duplex receptacle adjacent to each data and video port | 262726 |
| <u>Electronic Safety and Security:</u> | | <u>Communications:</u> | |
| Life safety devices per code | 283111 | T1 1 projector video port | 271543 |
| E1 Duplex receptacle with dedicated circuit for wireless devices | | T2 1 voice port and phone | 271513/273123 T3 |
| | | T3 1 data port near teacher workstation | 271513 T4 |
| | | T4 Classroom area network | 271513 |
| | | Clock | 275313 |
| | | Central sound system | 275123 |
| | | Sound reinforcement system | 275127 |
| | | T5 Ultra-short throw interactive projector | 274119 |
| | | T6 Wireless access point (WAP) as determined by Design – refer to Note 3 | 272133 |
| | | T7 Classroom technology center video port | 271543, 274116, 274119, 275127 |
| | | T8 Wireless access point cable above ceiling | 271513 |

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Technology components may be placed in a separate small cabinet, or integrated in the other casework in the room.
3. Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.

TEACHER PREP AREA/WORKROOM
E-AC-5

CHAPTER 4: ELEMENTARY SCHOOL



CAPACITY:

4 - 8 teachers

SIZE:

150-300 SF

PROGRAM ACTIVITIES:

- Teachers and other staff members hold team meetings and prepare for class
- Professional interaction should be encouraged to improve communication, professional development, and team building.
- **Collaboration of grade level grouped or subject grouped instructors.**
- **Collaboration spaces should support the exchange of ideas, remain instantly flexible, and provide an area for both individual study and group collaboration.**

SPATIAL RELATIONSHIPS:

- Near academic core classrooms
- Near individual restroom
- Near instructional material storage

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
wall minimum STC 45
ceiling minimum CAC 35, NRC 0.70
- **Transparent walls or windows to adjacent rooms**

Collaboration Note:

- **Collaboration is the vehicle by which individuals communicate their vision, desires, opinions, thoughts, and insight to their fellow colleagues. It is the means to address all aspects of the educational process, themes of focus, professional and personal relationships, and to build the camaraderie and teamwork to meet the ever changing educational needs of students of all ages.**

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.
2. Depending upon the educational program of the district, a tall wardrobe may be located in this teacher prep area/workroom or could be placed in a classroom.

**TEACHER PREP AREA/WORKROOM
E-AC-5**

CHAPTER 4: ELEMENTARY SCHOOL

| <u>FINISHES¹:</u> | Spec. Ref.# | <u>FEATURES¹:</u> | Spec. Ref.# |
|--|------------------|--|----------------------|
| <u>Flooring:</u> | | <u>Fixed Items:</u> | |
| Carpet, carpet tile, ET, linoleum, sheet vinyl, or rubber | 096816 096500 | F1 About 6' of base cabinets | 123550 |
| | 096516 | F2 50-75 s.f. combination marker board, tack board and tackable wall surface | 101100 |
| | 096813 | F3 Reserved | |
| <u>Base:</u> | | F4 3' sink base cabinet | 123550 |
| Resilient base | 096500 | F5 Towel dispenser (optional) | 102813 |
| | | F6 About 9' of wall cabinets | 123550 |
| <u>Ceiling:</u> | | F7 Tall Wardrobe | 123550 |
| Suspended, acoustical | 095113 | | |
| | | <u>Fire Suppression:</u> | |
| <u>Walls:</u> | | Fire suppression system | 211000 |
| Paint | 099100 | <u>Plumbing:</u> | |
| | | Sink | 224000 |
| <u>LOOSE FURNISHINGS:</u> | | Plumbing connections | 224000/221116/221119 |
| L1 Tables and chairs | | <u>HVAC:</u> | |
| L2 Coat Rack | | Supply/return air system | Div. 23 |
| L3 Soft Seating | | Independent temperature control | 230923 |
| L4 Teacher computer trucks | | <u>Electrical:</u> | |
| L5 Teacher workstation furniture and chair | | Single-level switching | 262726 |
| L6 42" high teacher cabinet with work surface top | | Fluorescent lighting | 265100 |
| L7 Stools | | Illumination level: See Table 8600-5 | |
| Wastebasket | | 3 duplex receptacles | 262726 |
| | | Double duplex receptacle adjacent to each data and video port | 262726 |
| <u>Miscellaneous:</u> | | Duplex receptacles for office equipment | 262726 |
| Copier by school district | | Receptacle for copier (if applicable) | 262726 |
| | | <u>Communications:</u> | |
| E1 Reserved | | T1 Reserved | |
| | | T2 voice ports with phones | 271513/273123 |
| | | T3 Wireless access point cable above ceiling | 271513 |
| | | T4 Wireless access point (WAP) as determined by design – refer to note 3 | 271533 |
| | | Central sound system | 275123 |
| | | Clock | 275313 |
| | | <u>Electronic Safety and Security:</u> | |
| | | Life safety devices per code | 283111 |

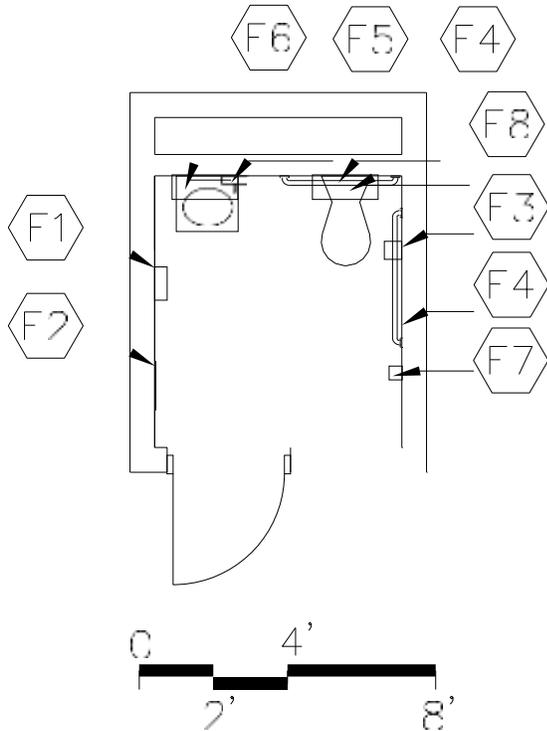
NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. **When collaboration area is selected, teacher computer trucks are provided in lieu of teacher desks in classrooms.**

- 3. Baseline includes WAP cable. WAP device quantity/placement per 272133 requirements.**

**INDIVIDUAL RESTROOM
E-AC-6**

CHAPTER 4: ELEMENTARY SCHOOL



PROGRAM ACTIVITIES:

- Personal and health needs for teachers, staff, and other individuals

SPATIAL RELATIONSHIPS:

- Near academic core classrooms
- Near teacher prep area/workroom

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
wall minimum STC 48
ceiling minimum CAC 35, NRC 0.70
- Moisture- and stain-resistant finishes

CAPACITY: 1 person
SIZE: **60 SF**

NOTES:

**INDIVIDUAL RESTROOM
E-AC-6**

CHAPTER 4: ELEMENTARY SCHOOL

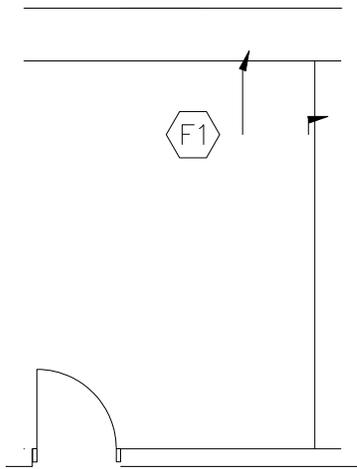
| <u>FINISHES¹:</u> | Spec. Ref.# | <u>FEATURES¹:</u> | Spec. Ref.# |
|------------------------------------|----------------|---|----------------------|
| <u>Flooring:</u> | | <u>Fixed Items:</u> | |
| ET, or | | F1 Towel dispenser | 102813 |
| sheet vinyl | 096500 | F2 24" x 60" mirror | 102813 |
| Optional: Ceramic mosaic tile, | 093000 | F3 Toilet tissue holder | 102813 |
| porcelain tile, or | 096723 | F4 36" and 42" grab bar | 102813 |
| resinous flooring | | F5 Soap dispenser | 102813 |
| | | F6 Shelf above sink (optional) | 102813 |
| | | F7 Coat hook | 102813 |
| | | F8 Wall cabinet above toilet (optional) | 102813 |
| <u>Base:</u> | | <u>Fire Suppression:</u> | |
| Resilient base | 096500 | Fire suppression system | 211000 |
| Optional: Ceramic mosaic tile, | 093000 | | |
| porcelain tile, resinous flooring, | 096723 | | |
| or integral vinyl cove base | | | |
| | | <u>Plumbing:</u> | |
| <u>Ceiling:</u> | | Wall-mounted water closet | 224000 |
| Suspended, acoustical | 095113 | Wall-mounted lavatory | 224000 |
| | | Plumbing connections | 224000/221116/221119 |
| <u>Walls:</u> | | <u>HVAC:</u> | |
| Painted concrete masonry units | 042000/099100 | Exhaust air system | Div. 23 |
| | | Supplemental heat as required | Div. 23 |
| <u>LOOSE FURNISHINGS:</u> | | <u>Electrical:</u> | |
| Wastebasket | | Single level switching | 262726 |
| | | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-5 | |
| | | 1 duplex receptacle | 262726 |
| | | <u>Communications:</u> | |
| | | Central sound system | 275123 |
| | | <u>Electronic Safety and Security:</u> | |
| | | Life safety devices per code | 283111 |
| | | <u>Miscellaneous:</u> | |
| | | N/A | |

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.

**INSTRUCTIONAL MATERIAL STORAGE
E-AC-7**

CHAPTER 4: ELEMENTARY SCHOOL



PROGRAM ACTIVITIES:

- Storage of supplies, textbooks, and equipment

SPATIAL RELATIONSHIPS:

- Near teacher prep area/workroom

ENVIRONMENTAL CONSIDERATIONS:

N/A

CAPACITY:
SIZE:

N/A
200 SF

NOTES:

**INSTRUCTIONAL MATERIAL STORAGE
E-AC-7**

CHAPTER 4: ELEMENTARY SCHOOL

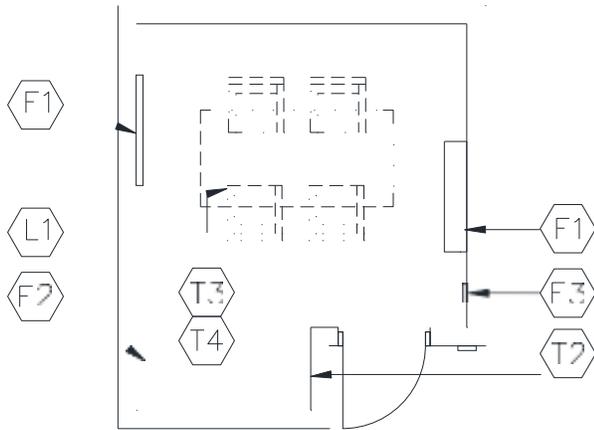
| <u>FINISHES¹:</u> | Spec. Ref.# | <u>FEATURES¹:</u> | Spec. Ref.# |
|---|-------------------------|--|----------------|
| Flooring: | | <u>Fixed Items:</u> | |
| Rubber, <i>linoleum, ET, or sheet vinyl</i> | 096500 096516 | F1 10'-20' of open shelving, depths may vary (fixed or loose) | 123550 |
| | | Option: mobile storage shelving | 105626 |
| Base: | | <u>Fire Suppression:</u> | |
| Resilient base | 096500 | Fire suppression system | 211000 |
| Ceiling: | | <u>Plumbing:</u> | |
| Suspended, acoustical | 095113 | N/A | |
| Walls: | | <u>HVAC:</u> | |
| Painted concrete masonry | 042000/099100 | To be determined by Design Professional Supplemental heat as required | Div. 23 |
| <u>LOOSE FURNISHINGS:</u> | | <u>Electrical:</u> | |
| N/A | | Single level switching | 262726 |
| | | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-5 | |
| | | 1 duplex receptacle | 262726 |
| | | <u>Communications:</u> | |
| | | N/A | |
| | | <u>Electronic Safety and Security:</u> | |
| | | N/A | |
| | | <u>Miscellaneous:</u> | |
| | | N/A | |

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.

**SMALL GROUP ROOM
E-AC-8**

CHAPTER 4: ELEMENTARY SCHOOL



PROGRAM ACTIVITIES:

- Student small group work
- Independent student work
- Small group meetings

SPATIAL RELATIONSHIPS:

- Near academic core classrooms

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
Wall only minimum STC 45
ceiling minimum CAC 35, NRC 0.70

CAPACITY: 4 - 5 students
SIZE: 150 SF

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.

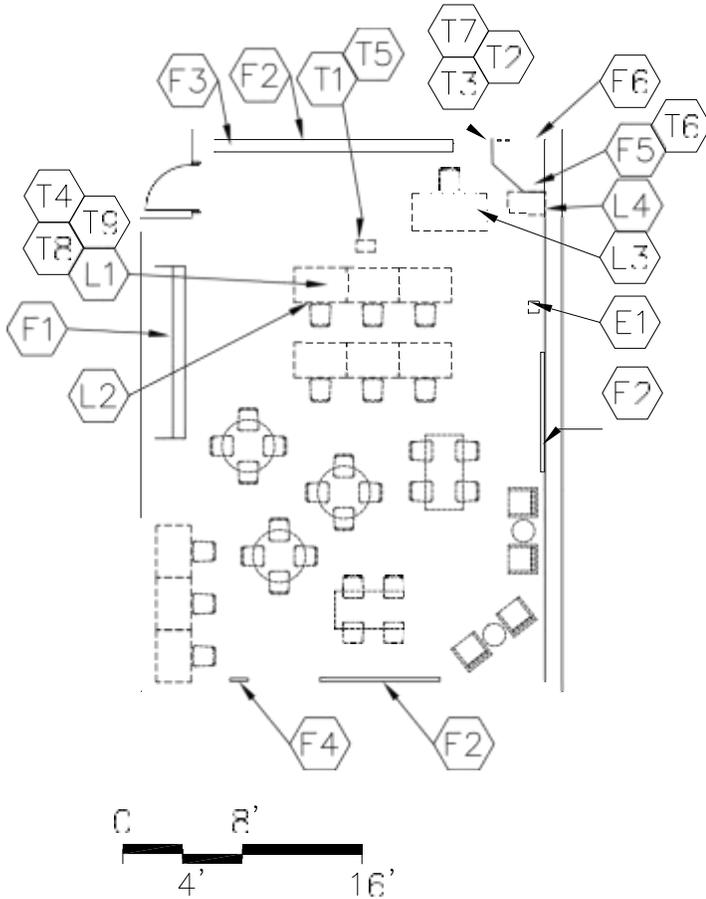
**SMALL GROUP ROOM
E-AC-8**

CHAPTER 4: ELEMENTARY SCHOOL

| <u>FINISHES</u> ¹ : | Spec. Ref.# | <u>FEATURES</u> ¹ : | Spec. Ref.# |
|---|------------------|--|----------------|
| Flooring: | | <u>Fixed Items:</u> | |
| ET, sheet vinyl, linoleum, or rubber | 096500 096516 | F1 8'-10' combination of chalk/marker board, tack board, or tackable wall surface | 101100 |
| Base: | | F2 Pencil sharpener support (optional) | 062000 |
| Resilient base | 096500 | F3 4'-6' of work surface, loose or fixed (optional) | 123550 |
| Ceiling: | | <u>Fire Suppression:</u> | |
| Suspended, acoustical | 095113 | Fire suppression system | 211000 |
| Walls: | | <u>Plumbing:</u> | |
| Painted concrete masonry units | 042000/099100 | N/A | |
| <u>LOOSE FURNISHINGS:</u> | | <u>HVAC:</u> | |
| L1 Work tables and chairs | | Supply/return air system | Div. 23 |
| L2 <i>Reserved</i> | | Independent temperature control (coupled with similarly loaded adjacent spaces) | 230923 |
| Wastebasket | | | |
| Pencil sharpener (optional) | | | |
| | | <u>Electrical:</u> | |
| | | Fluorescent lighting: | 265100 |
| | | Illumination level: See Table 8600-5 | |
| | | 4 duplex receptacles | 262726 |
| | | Double duplex receptacle adjacent to each data and video port | 262726 |
| | | <u>Communications:</u> | |
| | | T1 <i>Reserved</i> | |
| | | T2 <i>voice port with phone</i> | 271513/273123 |
| | | T3 <i>Wireless access point cable above ceiling</i> | 271513 |
| | | T4 <i>Wireless access point (WAP) as determined by design – refer to note 2</i> | 271533 |
| | | Clock | 275313 |
| | | Central sound system | 275123 |
| | | <u>Electronic Safety and Security:</u> | |
| | | Life safety devices per code | 283111 |
| | | <u>Miscellaneous:</u> | |
| | | Interior windows (optional) | 081113/088000 |

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. **Baseline includes WAP cable. WAP device quantity / placement per 272133 requirements.**



CAPACITY: 25 students
 SIZE: 1,500 SF

PROGRAM ACTIVITIES:

- Group instruction and individual work
- Activities include instruction, production, and individual project work
- “Wet / Dry” activities

SPATIAL RELATIONSHIPS:

- Near kinesthetic studio
- Near academic core classrooms

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
 wall only minimum STC 45
 ceiling minimum CAC 35, NRC 0.70

MISCELLANEOUS:

- Due to the changing nature of the activities anticipated, a multi-use studio is to be designed for flexibility of use.

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.

**MULTI-USE STUDIO
E-AC-9**

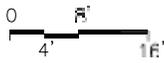
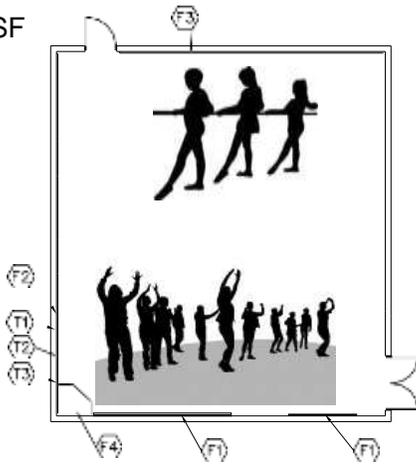
CHAPTER 4: ELEMENTARY SCHOOL

| <u>FINISHES¹:</u> | Spec. Ref.# | <u>FEATURES¹:</u> | Spec. Ref.# |
|---|----------------|---|--------------------------------|
| Flooring: | | <u>Fixed Items:</u> | |
| ET, sheet vinyl, linoleum, rubber | 096500 | F1 4'-16' of base & wall cabinets | 123550 |
| | 096516 | F2 18'-28' combination marker board, tack board, or tackable wall surface | 101100 |
| Base: | | F3 Projection screen (optional) | 115213 |
| Resilient base | 096500 | F4 Pencil sharpener support (optional) | 062000 |
| Ceiling: | | F5 Tall wardrobe with file drawers | 123550 |
| Suspended, acoustical | 095113 | F6 Technology support casework | 123550 |
| Walls: | | <u>Fire Suppression:</u> | |
| Painted concrete masonry units | | Fire suppression system | 211000 |
| | 042000/099100 | <u>Plumbing:</u> | |
| | | N/A | |
| <u>LOOSE FURNISHINGS:</u> | | <u>HVAC:</u> | |
| L1 Flexible furniture | | Supply/return air system | Div. 23 |
| L2 Student chairs | | Independent temperature control | 230923 |
| L3 Teacher desk and chair | | <u>Electrical:</u> | |
| L4 File cabinet | | Fluorescent lighting | 265100 |
| Wastebasket | | Illumination level: See Table 8600-5 | |
| | | Multilevel switching | 262726 |
| | | 6 duplex receptacles | 262726 |
| | | Double duplex receptacle adjacent to each data and video port | 262726 |
| | | <u>Communications:</u> | |
| | | T1 1 projector video port | 271543 |
| | | T2 1 voice port and phone | 271513/273123 |
| | | T3 1 data port near teacher workstation | 271513 |
| | | T4 Classroom area network (10 ports minimum) | 271513 |
| | | Clock | 275313 |
| | | Central sound system | 275123 |
| | | Sound reinforcement system | 275127 |
| | | T5 Ultra-short throw interactive projector | 274119 |
| | | T6 Combination i-Pod / CD Player unit and Mixer/Amp unit, located in the wardrobe, serving room overhead distributed speakers | |
| <u>Electronic Safety and Security:</u> | | T7 Classroom technology center video port | 271543, 274116, 274119, 275127 |
| Life safety devices per code | 283111 | T8 Wireless access point cable above ceiling | 271513 |
| <u>Miscellaneous:</u> | | T9 Wireless access point (WAP) as determined by Design – refer to Note 3 | 272133 |
| Pencil sharpener (optional) | | | |
| E1 Duplex receptacle with dedicated circuit for wireless devices | | | |

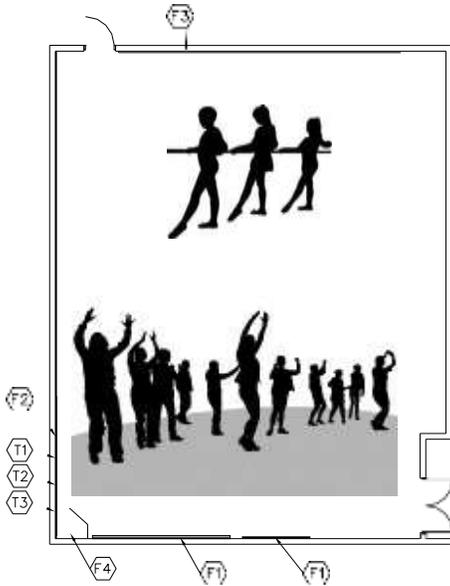
NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Technology components may be placed in a separate small cabinet, or integrated in the other casework in the room.
3. Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.

1,600 SF



2,400 SF



CAPACITY: 22-25 students
 SIZE: 1,200 – 2,400 SF

PROGRAM ACTIVITIES:

- Gross motor activities
- Dance
- Aerobics
- Gymnastics
- “Movement” activities

SPATIAL RELATIONSHIPS:

- Near multi-use studio
- Near academic core spaces

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
 wall only minimum STC 45
 ceiling minimum CAC 35, NRC 0.70
- Flexibility of space

NOTES:

**KINESTHETIC LEARNING STUDIO
E-AC-10**

CHAPTER 4: ELEMENTARY SCHOOL

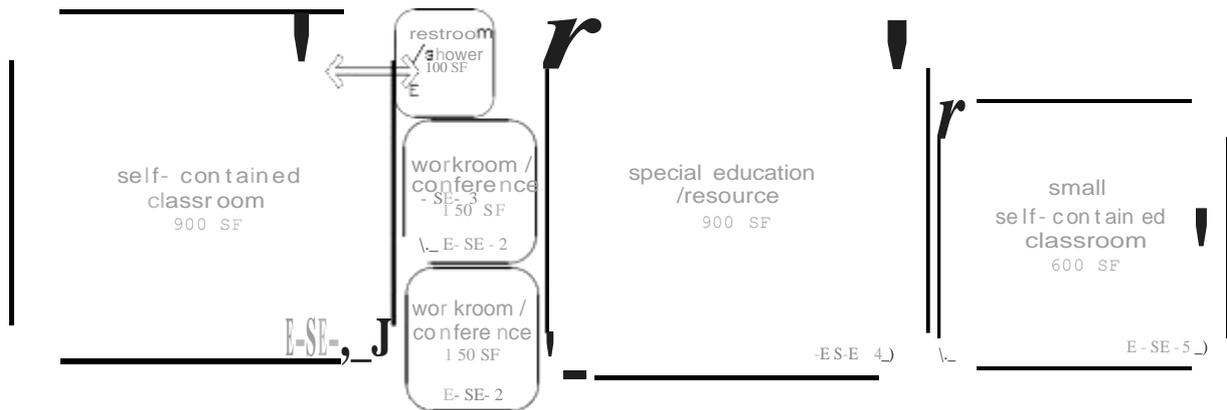
| <u>FINISHES¹:</u> | <u>Spec. Ref.#</u> | <u>FEATURES:</u> | <u>Spec. Ref.#</u> |
|---------------------------------|------------------------|---|------------------------|
| Flooring: | | <u>Fixed Items:</u> | |
| Fluid applied athletic flooring | 096766 | F1 8'-24' combination marker board, tack board, or tackable wall surface | 101100 |
| Base: | | F2 Mirrors | 102813 |
| Resilient base | 096500 | F3 Dance bars | 116615 |
| Ceiling: | | F4 Tall wardrobe with file drawers | 123550 |
| Painted exposed structure | 099100 | <u>Fire Suppression:</u> | |
| Walls: | | Fire suppression system | 211000 |
| Paint | 099100 | <u>Plumbing:</u> | |
| | | N/A | |
| | | <u>HVAC:</u> | |
| | | Supply/return air system | Div. 23 |
| | | Independent temperature control | 230923 |
| | | <u>Electrical:</u> | |
| | | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-5 | |
| | | Multilevel switching | 262726 |
| | | Dimmable lighting | 262726 |
| | | 6 duplex receptacles | 262726 |
| | | Double duplex receptacle adjacent to each data and video port | 262726 |
| | | Means of egress lighting | 265100 |
| | | Emergency lighting per code | 265100 |
| | | <u>Communications:</u> | |
| | | T1 1 projector video port | 271543 |
| | | T2 1 voice port and phone | 271513/273123 |
| | | T3 1 data port | 271513 |
| | | Clock | 275313 |
| | | Central sound system horns | 275123 |
| | | T4 Combination i-Pod / CD Player unit and Mixer/Amp unit, located in the wardrobe, serving room overhead distributed speakers | |
| | | <u>Electronic Safety and Security:</u> | |
| | | Life safety devices per code | 283111 |
| | | <u>Miscellaneous:</u> | |
| | | N/A | |

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.

SPECIAL EDUCATION SPACES
E-SE

CHAPTER 4: ELEMENTARY SCHOOL



NOTES:

This is an example of how the special education spaces in an elementary school could be arranged. This is meant only to demonstrate the relationships between various spaces of this area.

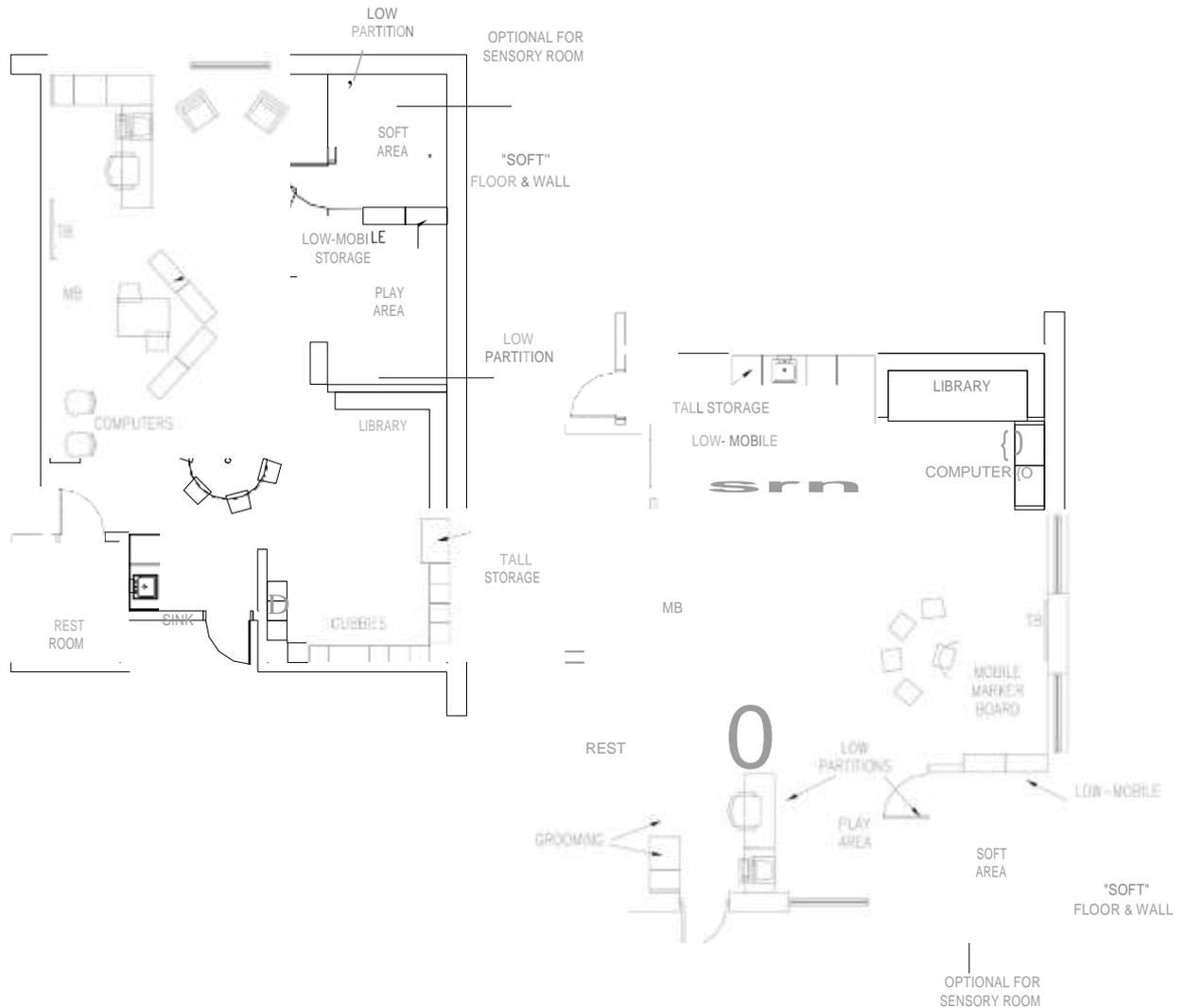
Following are the Special Education space plates:

- E-SE-1 Self-contained Classroom
- E-SE-2 Workroom/Conference
- E-SE-3 Restroom/Shower
- E-SE-4 Special Education/Resource
- E-SE-5 Small Self-contained Classroom

SPECIAL EDUCATION SPACES

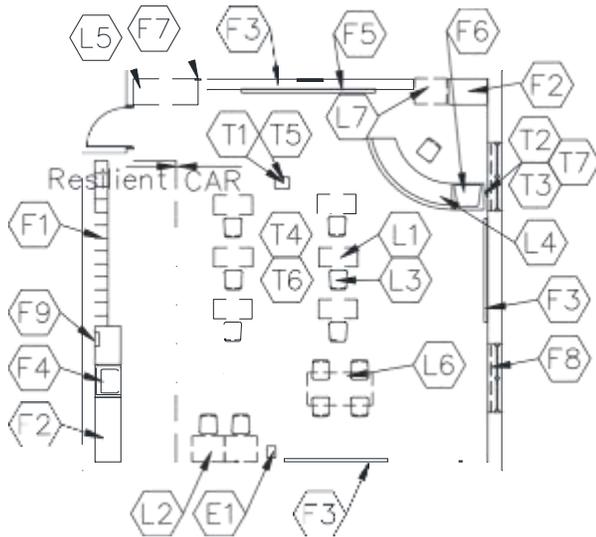
E-S E

CHAPTER 4: ELEMENTARY SCHOOL



- Student capacity: 8-12 students
- Least restrictive environment
- ADA accessible
- Flexible or multiple displays
- Full-spectrum LED lighting
- Sound enhancement
- Age appropriate, moveable furniture with lock down features
- Adaptive equipment storage

- Adaptive computer equipment
- "Visual" barriers on windows as needed for disability
- Sound/acoustic treatment to reduce sensory/hearing difficulties
- "Messy" area for art projects
- Appropriate signage
- Adjacent to restroom
- Moveable/lock down partitions



CAPACITY: Based on disability.
See Chapter 1, Section 1110.

SIZE: 900 SF

PROGRAM ACTIVITIES:

- Accommodates students who have special needs and are unable to be included in regular instructional program areas a majority of the school day.
- Activities include, but are not limited to: group and individual work to improve auditory, tactile, visual, kinesthetic and academic skills.

SPATIAL RELATIONSHIPS:

- Near academic core classrooms
- Adjacent to special education restroom/shower

ENVIRONMENTAL CONSIDERATIONS:

- Required: View glass – minimum 5% without daylighting design; minimum 3% with daylighting design.
Recommended: Daylighting design with glazing area determined by design solution.
- Environmental sound control -
wall only minimum STC 45
ceiling minimum CAC 35, NRC 0.70
- Resilient and stain-resistant floor covering
- Special consideration for wheelchair access and physical accessibility needs (ADA)

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.
2. Depending upon the educational program of the district, a tall wardrobe may be located in this classroom or could be placed in a workroom/conference area.
3. See Chapter 1, page 1110-16, for specific areas needed for each disability.

**SELF-CONTAINED CLASSROOM
E-SE-1**
CHAPTER 4: ELEMENTARY SCHOOL

| <u>FINISHES¹:</u> | Spec. Ref.# | <u>FEATURES¹:</u> | Spec. Ref.# |
|---|------------------|--|--------------------------------|
| <u>Flooring:</u> | | <u>Fixed Items:</u> | |
| Combination carpet, carpet tile, with resilient options | 096816 096500 | F1 Open casework – student coats and personal items (optional wall cabinets above) (cubbies) | 123550 |
| Optional: All ET, sheet vinyl, linoleum, or rubber | 096516 096813 | F2 9'-12' combination tall wardrobe, base & wall cabinets | 123550 |
| <u>Base:</u> | | F3 24'-32' combination marker board, tackboard & tackable wall surface | 123550 |
| Resilient base | 096500 | F4 3' sink base cabinet | 123550 |
| <u>Ceiling:</u> | | F5 Projection screen (optional) | 115213 |
| Suspended, acoustical | 095113 | F6 Technology support casework | 123550 |
| <u>Walls:</u> | | F7 Pencil sharpener support (optional) | 062000 |
| Paint | 099100 | F8 Windows with integral blinds | 085113 |
| | | F9 Towel dispenser (optional) | 102813 |
| <u>LOOSE FURNISHINGS:</u> | | <u>Fire Suppression:</u> | |
| L1 Student desks/tables | | Fire suppression system | 211000 |
| L2 Reserved | | <u>Plumbing:</u> | |
| L3 Student chairs | | Sink with drinking fountain | 224000 |
| L4 Teacher workstations/computer support and chair | | Plumbing connections | 224000/221116/221119 |
| L5 8'-10' of low bookcases (fixed or mobile) | | <u>HVAC:</u> | |
| L6 Reading table | | Supply/return air system | Div. 23 |
| L7 File cabinet | | Independent temperature control | 230923 |
| Wastebasket | | <u>Electrical:</u> | |
| <u>Electronic Safety and Security:</u> | | Fluorescent lighting | 265100 |
| Life safety devices per code | 283111 | Illumination level: See Table 8600-5 | |
| E1 Duplex receptacle with dedicated circuit for wireless devices | | Multilevel switching | 262726 |
| <u>Miscellaneous:</u> | | 4 duplex receptacles | 262726 |
| Pencil sharpener (optional) | | Double duplex receptacle adjacent to each data and video port | 262726 |
| | | <u>Communications:</u> | |
| | | T1 1 projector video port | 271543 |
| | | T2 1 voice port and phone | 271513/273123 |
| | | T3 1 data port | |
| | | near teacher workstation | 271513 |
| | | T4 Wireless access point cable above ceiling | 271513 |
| | | Clock | 275313 |
| | | Sound reinforcement system | 275127 |
| | | Central sound system | 275123 |
| | | T5 Ultra-short throw interactive projector | 274119 |
| | | T6 Wireless access point (WAP) as determined by Design – refer to Note 3 | 272133 |
| | | T7 Classroom technology center video port | 271543, 274116, 274119, 275127 |

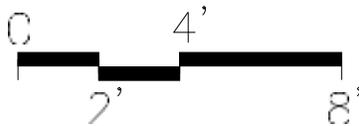
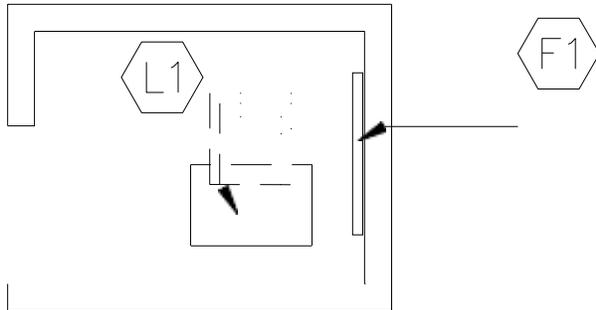
NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Technology components may be placed in a separate small cabinet, or integrated in the other casework in the room.
3. Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133

requirements.

WORKROOM/CONFERENCE
(Quiet Area) **E-SE-2**

CHAPTER 4: ELEMENTARY SCHOOL



PROGRAM ACTIVITIES:

- Could be used for emotionally disturbed or other students requiring a quiet individual area.
- Preparation and storage of instructional materials and equipment.

SPATIAL RELATIONSHIPS:

- Close proximity to academic classrooms
- Integral part of self-contained classroom or special education/resource room

ENVIRONMENTAL CONSIDERATIONS:

- Dimmed lighting
- Environmental sound control
wall minimum **STC 45**
ceiling minimum **CAC 35, NRC 0.70**

CAPACITY: 1 - 2 persons
SIZE: 150 SF

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.
2. Walls floor to ceiling and an open area for ½ of the fourth wall.
3. See Chapter 1, page 1110-16 for specific areas needed for each disability.

WORKROOM/CONFERENCE**E-SE-2 (Quiet Area)**

CHAPTER 4: ELEMENTARY SCHOOL

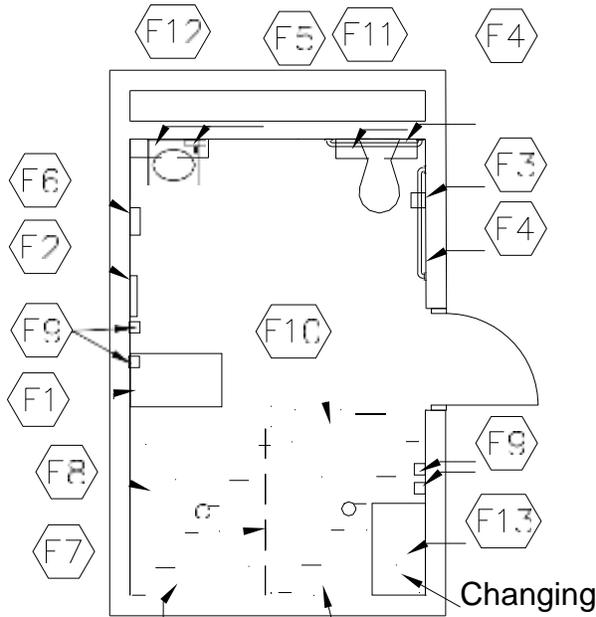
| <u>FINISHES¹:</u> | Spec. Ref.# | <u>FEATURES¹:</u> | Spec. Ref.# |
|--|--------------------------------------|--|----------------|
| <u>Flooring:</u> | | <u>Fixed Items:</u> | |
| Carpet, carpet tile, ET, linoleum, or sheet vinyl | 096816 096500 096516 096813 | F1 4' of tack board or chalk board or marker board (optional) | 101100 |
| <u>Base:</u> | | <u>Fire Suppression:</u> | |
| Resilient base | 096500 | Fire suppression system | 211000 |
| <u>Ceiling:</u> | | <u>Plumbing:</u> | |
| Suspended, acoustical | 095113 | N/A | |
| <u>Walls:</u> | | <u>HVAC:</u> | |
| Painted concrete masonry units | 042000/099100 | Supply/return air system | Div. 23 |
| | | Independent temperature control | 230923 |
| <u>LOOSE FURNISHINGS:</u> | | <u>Electrical:</u> | |
| L1 Student desk and chair | | Dimmable lighting | 262726 |
| Wastebasket | | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-5 | |
| | | 1 duplex receptacle | 262726 |
| | | <u>Communications:</u> | |
| | | Clock (optional) | 275313 |
| | | <u>Electronic Safety and Security:</u> | |
| | | Life safety devices per code | 283111 |
| | | <u>Miscellaneous:</u> | |
| | | Interior window with blinds (optional) | 081113/088000 |

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.

**RESTROOM/SHOWER
E-SE-3**

CHAPTER 4: ELEMENTARY SCHOOL



Shower-slope floor; no raised threshold;
5' x 5' for two people

Drying Area; 5' x 5' sloped floor

PROGRAM ACTIVITIES:

- Changing area
- Toilet / shower needs

SPATIAL RELATIONSHIPS:

- Next to self-contained classroom

ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting
- Environmental sound control -
wall minimum STC 48
ceiling minimum CAC 35, NRC 0.70
- Moisture- and stain-resistant finishes
- Special consideration for wheelchair access
and physical accessibility needs (ADA)

CAPACITY: 1 - 2 persons
SIZE: 100 SF

NOTES:

1. See Chapter 1, page 1110-16 for specific areas needed for each disability.

**RESTROOM/SHOWER
E-SE-3**

CHAPTER 4: ELEMENTARY SCHOOL

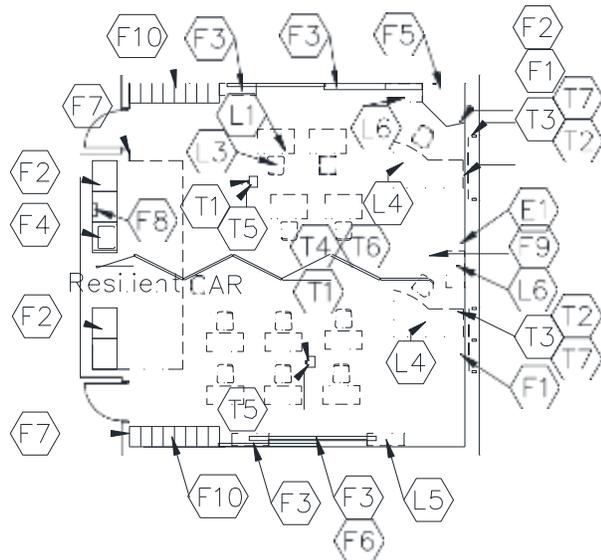
| <u>FINISHES</u> ¹ : | Spec. Ref.# | <u>FEATURES</u> ¹ : | Spec. Ref.# |
|---|-----------------------------------|--|----------------------|
| <u>Flooring:</u> | | <u>Fixed Items:</u> | |
| Restroom: ET, vinyl sheet, ceramic mosaic, porcelain tile | 093000 096500 | F1 Base cabinets | 123550 |
| Shower: Ceramic mosaic tile, or porcelain tile | 093000 | F2 24" x 60" mirror | 102813 |
| | | F3 Toilet tissue holder | 102813 |
| | | F4 36" and 42" grab bar | 102813 |
| | | F5 Soap dispenser | 102813 |
| | | F6 Towel dispenser | 102813 |
| <u>Base:</u> | | F7 Shower curtain and rod | 102813 |
| Restroom: Resilient base, ceramic mosaic, porcelain tile, or integral vinyl cove base | 096500 093000 | F8 ADA shower accessories | 102813 |
| Shower: Ceramic mosaic tile base, porcelain tile, or integral vinyl cove base | | F9 (2) hooks | 102813 |
| | | F10 Cubicle curtain | 102813 |
| | | F11 8" deep wall cabinet above toilet | 102813 |
| | | F12 Shelf (optional) | 102813 |
| | | F13 Changing station (fixed or loose) | 123550 |
| <u>Ceiling:</u> | | <u>Fire Suppression:</u> | |
| Restroom: Suspended, acoustical | 095113 | Fire suppression system | 211000 |
| Shower: Painted portland cement plaster or interior finish system | 092400/099100 092513 | | |
| <u>Walls:</u> | | <u>Plumbing:</u> | |
| Epoxy painted concrete masonry units or ceramic wall tile in shower and latex paint in restroom | 042000/099100 093000 099100 | Wall-mounted water closet | 224000 |
| | | Wall-mounted lavatory | 224000 |
| | | ADA shower controls and head | 224000 |
| | | Plumbing connections | 224000/221116/221119 |
| <u>LOOSE FURNISHINGS:</u> | | <u>HVAC:</u> | |
| Wastebasket | | Exhaust air system | Div. 23 |
| | | Supplemental heat as required | Div. 23 |
| | | <u>Electrical:</u> | |
| | | Single level switching | 262726 |
| | | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-5 | |
| | | 1 duplex receptacle | 262726 |
| | | <u>Communications:</u> | |
| | | Central sound system | 275123 |
| | | <u>Electronic Safety and Security:</u> | |
| | | Life safety devices per code | 283111 |
| | | <u>Miscellaneous:</u> | |
| | | N/A | |

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Refer to ADAAG 4.21 for grab bar and control locations.

**SPECIAL EDUCATION/RESOURCE
E-SE-4**

CHAPTER 4: ELEMENTARY SCHOOL



PROGRAM ACTIVITIES:

- Accommodates students who have special needs with cognitive disability, hearing impairment, visual impairment, emotional disturbance, orthopedic impairment, autism, brain injury, learning-deaf-blindness disabilities.
- Variety of special services such as one-on-one instruction and small group instruction.
- Activities include, but are not limited to: group discussions, demonstrations, music activities, life skills, coping skills, speech, and visual and hearing support services.

SPATIAL RELATIONSHIPS:

- Near academic core classrooms
- The space will be used to accommodate the specific IEP requirements of each student

ENVIRONMENTAL CONSIDERATIONS:

- Required: View glass – minimum 5% without daylighting design; minimum 3% with daylighting design.
Recommended: Daylighting design with glazing area determined by design solution.
- Environmental sound control –
wall only minimum STC 45
ceiling minimum CAC 35, NRC 0.70

CAPACITY: Based on disability.
See Chapter 1, Section 1110.

SIZE: 900 SF

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.
2. Depending upon the educational program of the district, a tall wardrobe may be located in this room or could be placed in a workroom/conference area.
3. See Chapter 1, page 1110-16 for specific areas needed for each disability.

**SPECIAL EDUCATION/RESOURCE
E-SE-4**

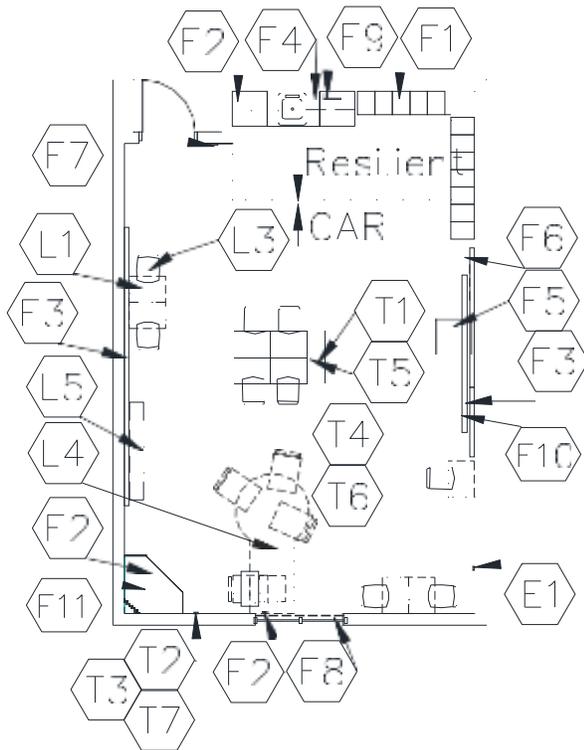
CHAPTER 4: ELEMENTARY SCHOOL

| <u>FINISHES¹:</u> | Spec. Ref.# | <u>FEATURES¹:</u> | Spec. Ref.# |
|---|------------------|--|----------------------|
| <u>Flooring:</u> | | <u>Fixed Items:</u> | |
| Combination carpet, carpet tile, with resilient options | 096816 096500 | F1 Windows with integral blinds | 085113 |
| Option: All ET, sheet vinyl, linoleum, or rubber | 096516 096813 | F2 9'-12' combination tall wardrobe, base and wall cabinets | 123550 |
| <u>Base:</u> | | F3 24'-32' combination chalk/marker board tackboard & tackable wall surface | 123550 123550 |
| Resilient base | 096500 | F4 3' sink base cabinet | 123550 |
| <u>Ceiling:</u> | | F5 Technology support casework | 123550 |
| Suspended, acoustical | 095113 | F6 Projection screen (optional) | 115213 |
| <u>Walls:</u> | | F7 Pencil sharpener support (optional) | 062000 |
| Paint | 099100 | F8 Towel dispenser (optional) | 102813 |
| <u>LOOSE FURNISHINGS:</u> | | F9 Operable partition (optional) | 102226 |
| L1 Student desks/tables | | F10 Open casework coats and personal storage w/wall cabinets above | 123550 102813 |
| L2 Reserved | | Mirror (optional) | 102813 |
| L3 Student chairs | | Mobile storage cabinet (optional) | 123550 |
| L4 Teacher desk /computer support and chair | | <u>Fire Suppression:</u> | |
| L5 Wash basins or storage unit | | Fire suppression system | 211000 |
| L6 File cabinet | | <u>Plumbing:</u> | |
| Wastebasket | | Sink | 224000 |
| | | Plumbing connections | 224000/221116/221119 |
| | | <u>HVAC:</u> | |
| | | Supply/return air system | 230923 |
| | | Independent temperature control | 230923 |
| | | <u>Electrical:</u> | |
| | | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-5 | |
| | | Multilevel switching | 262726 |
| | | 4 duplex receptacles | 262726 |
| <u>Electronic Safety and Security:</u> | | Double duplex receptacle adjacent to each data and video port | 262726 |
| Life safety devices per code | 283111 | <u>Communications:</u> | |
| E1 Duplex receptacle with dedicated circuit for wireless devices | | T1 1 projector video port | 271543 |
| <u>Miscellaneous:</u> | | T2 1 voice port and phone | 271513/273123 |
| Pencil sharpener (optional) | | T3 1 data port | 271513 |
| <u>Communications (cont'd):</u> | | near each teacher workstation | 271513 |
| T7 Classroom technology center video port 271543, 274116, 274119, 275127 | | T4 Wireless access point cable above ceiling | 271513 |
| | | Clock | 275313 |
| | | Sound reinforcement system | 275127 |
| | | Central sound system | 275123 |
| | | T5 Ultra-short throw interactive projector | 274119 |
| | | T6 Wireless access point (WAP) as determined by Design – refer to Note 3 | 272133 |

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Technology components may be placed in a separate small cabinet, or integrated in the other

- casework in the room.
3. Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.



CAPACITY: Based on disability.
See Chapter 1, Section 1110.

SIZE: 600 SF

PROGRAM ACTIVITIES:

- Can accommodate students with cognitive, hearing, speech, language, emotional, orthopedic, autistic, brain injury, learning, deaf, and blindness. Services to include occupational, physical, and speech therapy.
- Accommodates students who have special needs and are unable to be included in regular instructional program areas.
- Activities include, but are not limited to: group discussions, demonstrations, music activities, listening skills, presentations, art and science projects, and small group activities.

SPATIAL RELATIONSHIPS:

- Distributed throughout academic core areas.

ENVIRONMENTAL CONSIDERATIONS:

- Required: View glass – minimum 5% without daylighting design; minimum 3% with daylighting design.
Recommended: Daylighting design with glazing area determined by design solution.
- Environmental sound control -
wall only minimum STC 45
ceiling minimum CAC 35, NRC 0.70
- Resilient and stain-resistant floor covering
- Special consideration for wheelchair access and physical accessibility needs (ADA)

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.
2. Depending upon the educational program of the district, a tall wardrobe may be located in this classroom or could be placed in a workroom/conference area.
3. See Chapter 1, page 1110-16, for specific areas needed for each disability.

SMALL SELF-CONTAINED CLASSROOM**E-SE-5** (Special Education)

CHAPTER 4: ELEMENTARY SCHOOL

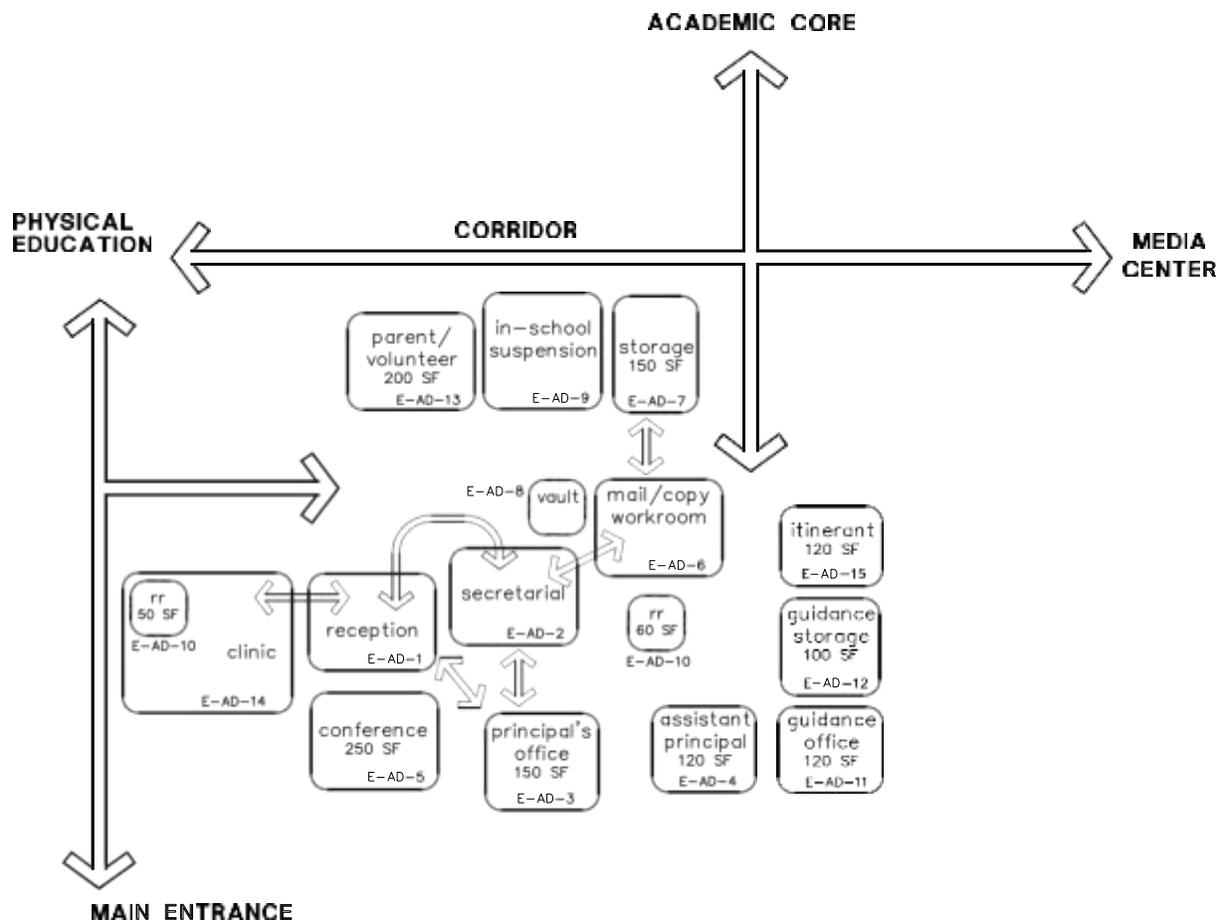
| | Spec. Ref.# | | Spec. Ref.# |
|---|------------------|---|--------------------------------|
| FINISHES¹: | | FEATURES¹: | |
| Flooring: | | Fixed Items: | |
| Combination carpet, carpet tile, with resilient options | 096816 096516 | F1 Open casework – coats and personal items with wall cabinets above | 123550 |
| Option: All ET, sheet vinyl linoleum, or rubber | 096500 096813 | F2 Combination tall wardrobe, base and wall cabinets | 123550 |
| Base: | | F3 20'-28' combination marker board, tackboard, tackable wall surface | 123550 |
| Resilient base | 096500 | F4 3' sink base cabinet | 123550 |
| Ceiling: | | F5 Mobile storage cabinet (optional) | 123550 |
| Suspended, acoustical | 095113 | F6 Mirror (optional) | 102813 |
| Walls: | | F7 Pencil sharpener support (optional) | 062000 |
| Paint | 099100 | F8 Windows with integral blinds | 085113 |
| LOOSE FURNISHINGS: | | F9 Towel dispenser (optional) | 102813 |
| L1 Student desks/tables | | F10 Projection screen (optional) | 115213 |
| L2 Reserved | | F11 Technology support casework | 123550 |
| L3 Student chairs | | Fire Suppression: | |
| L4 Teacher workstations/computer support and chair | | Fire suppression system | 211000 |
| L5 6' of low bookcases (fixed or mobile) Wastebasket | | Plumbing: | |
| Electronic Safety and Security: | | Sink with drinking fountain | 224000 |
| Life safety devices per code | 283111 | Plumbing connections | 224000/221116/221119 |
| E1 Duplex receptacle with dedicated circuit for wireless devices | | HVAC: | |
| Miscellaneous: | | Supply/return air system | Div. 23 |
| Pencil sharpener (optional) | | Independent temperature control | 230923 |
| | | Electrical: | |
| | | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-5 | |
| | | Multilevel switching | 262726 |
| | | 4 duplex receptacles | 262726 |
| | | Double duplex receptacle adjacent to each data and video port | 262726 |
| | | Communications: | |
| | | T1 1 projector video port | 271543 |
| | | T2 1 voice port and phone | 271513/273123 |
| | | T3 1 data port near teacher workstation | 271513 |
| | | T4 Wireless access point cable above ceiling | 271513 |
| | | Clock | 275313 |
| | | Central sound system | 275123 |
| | | Sound reinforcement system | 275127 |
| | | T5 Ultra-short throw interactive projector | 274119 |
| | | T6 Wireless access point (WAP) as determined by Design – refer to Note 3 | 272133 |
| | | T7 Classroom technology center video port | 271543, 274116, 274119, 275127 |

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Technology components may be placed in a separate small cabinet, or integrated in the other casework in the room.
3. Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.

ADMINISTRATIVE SPACES E-AD

CHAPTER 4: ELEMENTARY SCHOOL



NOTES:

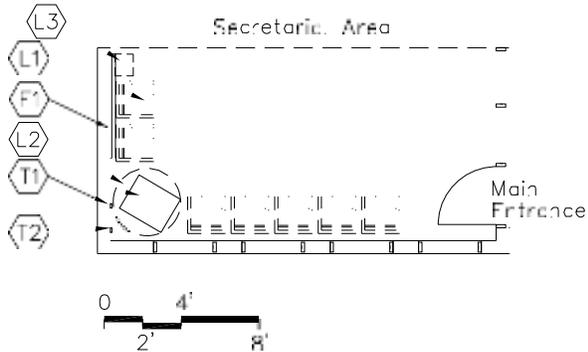
This is an example of how the administrative spaces in an elementary school could be arranged. This is meant only to demonstrate the relationships between various spaces of this area.

Following are the Administrative space plates:

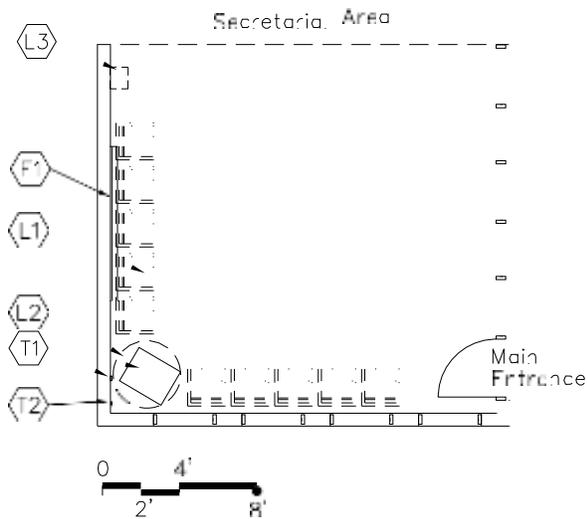
- E-AD-1 Reception Area
- E-AD-2 Secretarial Area
- E-AD-3 Principal's Office
- E-AD-4 Assistant Principal's Office
- E-AD-5 Conference Room
- E-AD-6 Mail/Work/Copy Room
- E-AD-7 Administrative Storage
- E-AD-8 Vault/Records Storage
- E-AD-9 In-school Suspension
- E-AD-10 Restroom
- E-AD-11 Guidance Counselor's Office
- E-AD-12 Guidance Records/Storage
- E-AD-13 Parent/Volunteer Room
- E-AD-14 Health Clinic (includes restroom)

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200 SF



350 SF



CAPACITY: 6 - 8 or 8 - 10 visitors
 SIZE: 200 - **350** SF
 ANCILLARY SPACES: Secretarial Area
 E-AD-2

PROGRAM ACTIVITIES:

- Serves as the main entry to the building
- Visitors may wait or are directed to other areas of the building.

SPATIAL RELATIONSHIPS:

- Access to all areas of the building
- Open to secretarial area
- Near principal's office
- Near main entrance to the building
- Visual access to main entrance of the building

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
 wall minimum STC 40
 ceiling minimum CAC 35, NRC 0.70
- Audio and visual control from secretarial area

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.

**RECEPTION AREA
E-AD-1**

CHAPTER 4: ELEMENTARY SCHOOL

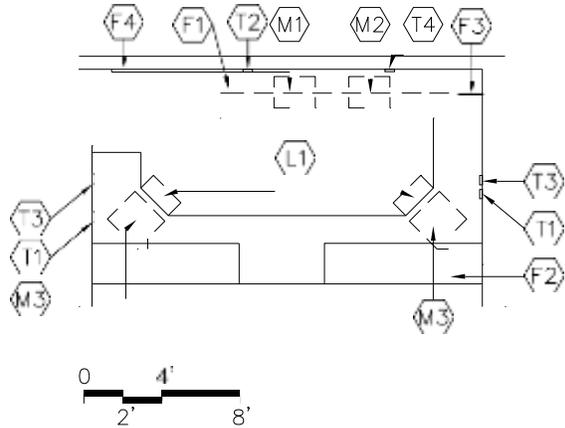
| <u>FINISHES¹:</u> | Spec. Ref.# | <u>FEATURES¹:</u> | Spec. Ref.# |
|-------------------------------|----------------|---|----------------|
| Flooring: | | <u>Fixed Items:</u> | |
| Carpet or Carpet Tile | 096816 | F1 Tack board or tackable wall | |
| | 096813 | surface (optional) | 101100 |
| Base: | | <u>Fire Suppression:</u> | |
| Resilient base | 096500 | Fire suppression system | 211000 |
| Ceiling: | | <u>Plumbing:</u> | |
| Suspended, acoustical | 095113 | N/A | |
| Walls: | | <u>HVAC:</u> | |
| Painted gypsum wallboard | | Supply/return air system | Div. 23 |
| over metal studs | 092116/099100 | Independent temperature control | 230993 |
| <u>LOOSE FURNISHINGS:</u> | | <u>Electrical:</u> | |
| L1 Visitor chairs | | Single level switching | 262726 |
| L2 End table | | Fluorescent lighting | 265100 |
| L3 Racks for forms (optional) | | Illumination level: See Table 8600-5 | |
| Wastebasket | | 2 duplex receptacles | 262726 |
| | | Double duplex receptacle adjacent | |
| | | to video port | 262726 |
| | | Means of egress lighting per code | 265100 |
| | | <u>Communications:</u> | |
| | | T1 1 projector video port, monitor, and brackets | |
| | | | 271543/274119 |
| | | T2 1 voice port and phone | 271513/273123 |
| | | Clock | 275313 |
| | | Central sound system | 275123 |
| | | <u>Electronic Safety and Security:</u> | |
| | | Life safety devices per code | 283111 |
| | | <u>Miscellaneous:</u> | |
| | | Interior windows | 081113/088000 |

NOTES:

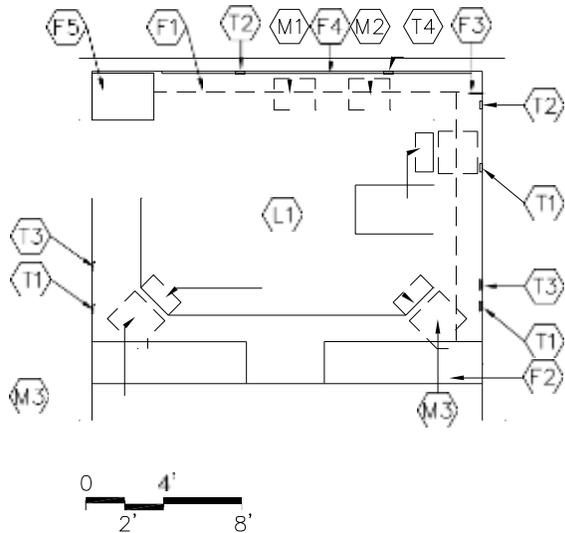
1. Finishes/Features: Refer to Chapter 9 for specification references.

CHAPTER 4: ELEMENTARY SCHOOL

200 SF ADA Compliant Approach



350 SF ADA Compliant Approach



CAPACITY: 1 - 2 or 2 - 3 staff
SIZE: 200 - **350** SF
ANCILLARY SPACES: Reception Area
 E-AD-1

PROGRAM ACTIVITIES:

- Conduct administrative support duties, and receive and direct visitors

SPATIAL RELATIONSHIPS:

- Easy access to all areas of the building
- Open to reception area
- Near principal's office
- Near main entrance to the building
- Visual access to main entrance of the building

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control - wall minimum STC 40
ceiling minimum CAC 35, NRC 0.70
- Audio and visual control of reception area

NOTES:

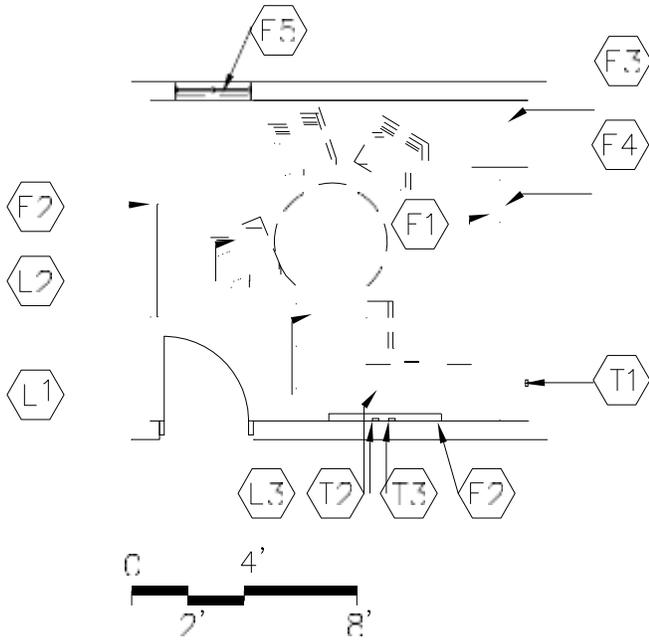
1. Loose furnishings shown represent one of many possible arrangements.

**SECRETARIAL AREA
E-AD-2**
CHAPTER 4: ELEMENTARY SCHOOL

| <u>FINISHES¹:</u> | Spec. Ref.# | <u>FEATURES¹:</u> | Spec. Ref.# |
|--|-------------------------|--|-----------------------|
| Flooring: | | <u>Fixed Items²:</u> | |
| Carpet <i>or Carpet Tile</i> | 096816 096813 | F1 24' - 60' of work surface with file drawers | 123550 |
| Base: | | F2 42" high counter top with portion of counter 34" high or lower | 123550 |
| Resilient base | 096500 | F3 16'-24' of wall cabinets for forms, supplies, books, and manuals | 123550 |
| Ceiling: | | F4 Tackable wall surface (optional) | 101100 |
| Suspended, acoustical | 095113 | F5 Tall cabinet for coats (optional) | 123550 |
| Walls: | | <u>Fire Suppression:</u> | |
| Painted gypsum wallboard over metal studs | 092116/099100 | Fire suppression system | 211000 |
| <u>LOOSE FURNISHINGS:</u> | | <u>Plumbing:</u> | |
| L1 Secretarial chairs | | N/A | |
| Wastebasket | | <u>HVAC:</u> | |
| | | Supply/return air system | Div. 23 |
| | | Temperature control with reception area (coupled with similarly loaded adjacent spaces) | 230923 |
| | | <u>Electrical:</u> | |
| | | Single level switching | 262726 |
| | | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-5 | |
| | | 3 duplex receptacles | 262726 |
| | | Double duplex receptacle adjacent to each data port | 262726 |
| | | Emergency lighting | 265100 |
| | | <u>Communications:</u> | |
| | | T1 1 voice port and phone at each secretarial workstation | 271513/ 273123 |
| | | T2 1 fax port | 271513/273113 |
| | | T3 1 data port at each secretarial workstation | 271513 |
| | | T4 1 data port for printer | 271513 |
| | | Central sound system | 275123 |
| | | Clock | 275313 |
| | | <u>Electronic Safety and Security:</u> | |
| | | Life safety devices per code | 283111 |
| | | <u>Miscellaneous:</u> | |
| | | The following items are to be funded by the school district: | |
| | | M1 Fax machine | |
| | | M2 Printer | |
| | | M3 Computer/typewriter | |

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Ranges shown illustrate quantities for the smallest and largest possible room size.



PROGRAM ACTIVITIES:

- Instructional and administrative leader of the building
- One-on-one conferences with parents, small group meetings, and coordination of administrative tasks

SPATIAL RELATIONSHIPS:

- Near reception area
- Near secretarial area
- Easy access to school circulation areas
- Near main entrance to the building
- Near conference room

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
wall minimum STC 45
ceiling minimum CAC 35, NRC 0.70

CAPACITY: 1 - 4 persons
SIZE: 150 SF

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.

**PRINCIPAL'S OFFICE
E-AD-3**

CHAPTER 4: ELEMENTARY SCHOOL

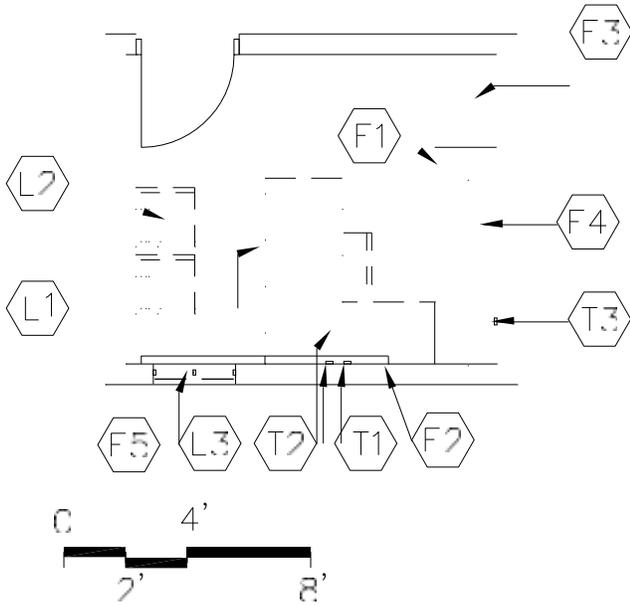
| <u>FINISHES¹:</u> | Spec. Ref.# | <u>FEATURES¹:</u> | Spec. Ref.# |
|--|----------------|---|----------------|
| Flooring: | | <u>Fixed Items:</u> | |
| Carpet or Carpet Tile | 096816 | F1 Work surface with file drawers | 123550 |
| | 096813 | F2 4' of tack board, marker board, or tackable wall surface | 101100 |
| Base: | | F3 Tall wardrobe | 123550 |
| Resilient base | 096500 | F4 Wall cabinets above work surface | 123550 |
| Ceiling: | | F5 Window with integral blinds | 085113 |
| Suspended, acoustical | 095113 | <u>Fire Suppression:</u> | |
| Walls: | | Fire suppression system | 211000 |
| Painted gypsum wallboard over metal studs | 092116/099100 | <u>Plumbing:</u> | |
| | | N/A | |
| <u>LOOSE FURNISHINGS:</u> | | <u>HVAC:</u> | |
| L1 Desk and chair | | Supply/return air system | Div. 23 |
| L2 Visitor chairs | | Independent temperature control (coupled with similarly loaded adjacent spaces) | 230923 |
| L3 Computer desk return | | <u>Electrical:</u> | |
| Wastebasket | | Single level switching | 262726 |
| | | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-5 | |
| | | 4 duplex receptacles | 262726 |
| | | Double duplex receptacle adjacent to each data and video port | 262726 |
| | | <u>Communications:</u> | |
| | | T1 1 projector video port | 271543 |
| | | T2 1 voice port and phone | 271513/273123 |
| | | T3 1 data port near workstation | 271513 |
| | | Central sound system | 275123 |
| | | Clock | 275313 |
| | | <u>Electronic Safety and Security:</u> | |
| | | Life safety devices per code | 283111 |
| | | <u>Miscellaneous:</u> | |
| | | N/A | |

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references. Optional: moveable cabinets
2. Fixed casework and loose furnishings can be either all fixed casework or all loose furnishings.

**ASSISTANT PRINCIPAL'S OFFICE
E-AD-4**

CHAPTER 4: ELEMENTARY SCHOOL



PROGRAM ACTIVITIES:

- To assist principal in administrative tasks
- One-on-one conferences with parents and coordination of administrative tasks

SPATIAL RELATIONSHIPS:

- Near reception area
- Near secretarial area
- Direct access to school circulation areas
- Near main entrance to the building
- Near or accessible to principal's office
- Near conference room

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
wall minimum STC 45
ceiling minimum CAC 35, NRC 0.70

CAPACITY: 1 - 3 persons
SIZE: 120 SF

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.

**ASSISTANT PRINCIPAL'S OFFICE
E-AD-4**

CHAPTER 4: ELEMENTARY SCHOOL

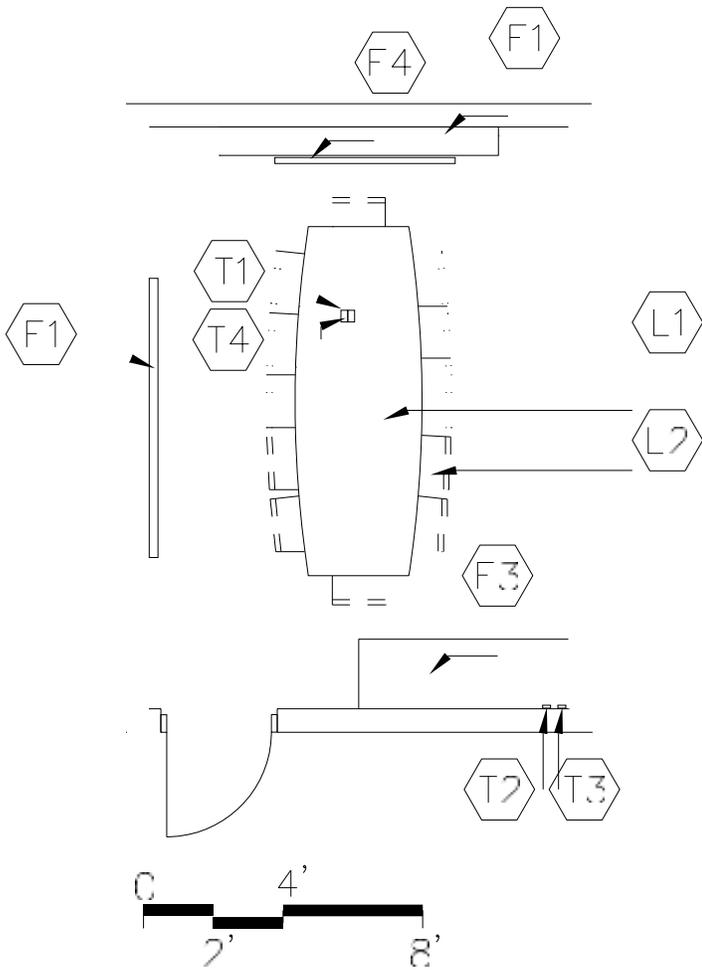
| | Spec. Ref.# | | Spec. Ref.# |
|--|----------------|---|----------------|
| <u>FINISHES¹:</u> | | <u>FEATURES¹:</u> | |
| Flooring: | | <u>Fixed Items:</u> | |
| Carpet or Carpet Tile | 096816 | F1 Work surface with file drawers | 123550 |
| | 096813 | F2 4' of tack board, marker board, or tackable wall surface | 101100 |
| Base: | | F3 Tall wardrobe | 123550 |
| Resilient base | 096500 | F4 Wall cabinets above work surface | 123550 |
| Ceiling: | | F5 Window with integral blind | 085113 |
| Suspended, acoustical | 095113 | <u>Fire Suppression:</u> | |
| Walls: | | Fire suppression system | 211000 |
| Painted gypsum wallboard over metal studs | 092116/099100 | <u>Plumbing:</u> | |
| <u>LOOSE FURNISHINGS:</u> | | N/A | |
| L1 Desk and chair | | <u>HVAC:</u> | |
| L2 Visitor chairs | | Supply/return air system | Div. 23 |
| L3 Computer desk return Wastebasket | | Independent temperature control (coupled with similarly loaded adjacent spaces) | 230923 |
| | | <u>Electrical:</u> | |
| | | Single level switching | 262726 |
| | | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-5 | |
| | | 4 duplex receptacles | 262726 |
| | | Double duplex receptacle adjacent to data and video port | 262726 |
| | | <u>Communications:</u> | |
| | | T1 1 voice port and phone | 271513/273123 |
| | | T2 1 data port near workstation | 271513 |
| | | T3 1 projector video port | 271543 |
| | | Central sound system | 275123 |
| | | Clock | 275313 |
| | | <u>Electronic Safety and Security:</u> | |
| | | Life safety devices per code | 283111 |
| | | <u>Miscellaneous:</u> | |
| | | N/A | |

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references. Optional: moveable cabinets
2. Fixed casework and loose furnishings can also be all fixed casework or all loose furnishings.

**CONFERENCE ROOM
E-AD-5**

CHAPTER 4: ELEMENTARY SCHOOL



CAPACITY: 12 – 15 persons
 SIZE: 250 SF

PROGRAM ACTIVITIES:

- Conferences with staff, students, parents, and other community groups

SPATIAL RELATIONSHIPS:

- Near principal's office
- Near assistant principal's office
- Near reception area
- Near secretarial area

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
 wall minimum **STC 45**
 ceiling minimum **CAC 35, NRC 0.70**
- **Optional – window with integral blind**

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.

**CONFERENCE ROOM
E-AD-5**

CHAPTER 4: ELEMENTARY SCHOOL

| <u>FINISHES¹:</u> | Spec. Ref.# | <u>FEATURES¹:</u> | Spec. Ref.# |
|--|----------------|---|------------------|
| Flooring: | | <u>Fixed Items:</u> | |
| Carpet or Carpet Tile | 096816 | F1 16' combination of marker board, tackboard, tackable wall surface or media display cabinet | 101100 |
| | 096813 | | |
| Base: | | F2 Reserved | |
| Resilient base | 096500 | F3 4'-6' of base cabinets (optional) | 123550 |
| Ceiling: | | F4 Projection screen (optional) | 115213 |
| Suspended, acoustical | 095113 | | |
| Walls: | | <u>Fire Suppression:</u> | |
| Painted gypsum wallboard over metal studs | 092116/099100 | Fire suppression system | 211000 |
| | | <u>Plumbing:</u> | |
| | | N/A | |
| <u>LOOSE FURNISHINGS:</u> | | <u>HVAC:</u> | |
| L1 Conference table | | Supply/return air system | Div. 23 |
| L2 Chairs | | Independent temperature control | 230923 |
| Wastebasket | | | |
| | | <u>Electrical:</u> | |
| | | Multilevel switching | 262726 |
| | | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-5 | |
| | | 3 duplex receptacles | 262726 |
| | | Double duplex receptacle adjacent to each data and video port | 262726 |
| | | <u>Communications:</u> | |
| | | T1 1 projector video port | 271543 |
| | | T2 1 voice port and phone | 271513/273123 T3 |
| | | 1 data port | 271513 |
| | | Clock | 275313 |
| | | Central sound system | 275123 |
| | | T4 Ultra-short throw interactive projector | 274119 |
| | | <u>Electronic Safety and Security:</u> | |
| | | Life safety devices per code | 283111 |
| | | <u>Miscellaneous:</u> | |
| | | N/A | |

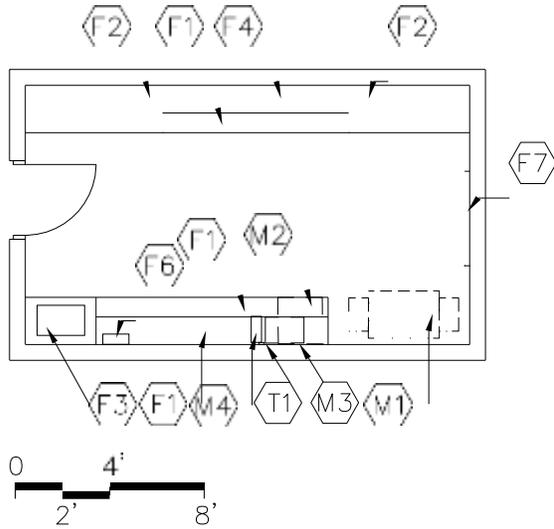
NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Fixed casework and loose furnishings can be either all fixed casework all loose furnishings.

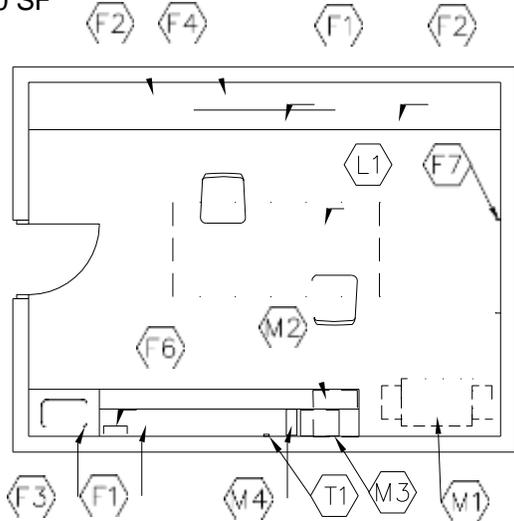
**MAIL/WORK/COPY ROOM
E-AD-6**

CHAPTER 4: ELEMENTARY SCHOOL

200 SF



300 SF



PROGRAM ACTIVITIES:

- Distribution area for preparation/copying of mail and materials.
- Staff receives messages and obtains supplies.

SPATIAL RELATIONSHIPS:

- Near secretarial area

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
wall minimum STC 40
ceiling minimum CAC 35, NRC 0.70

CAPACITY: N/A
SIZE: 200 - 400 SF

NOTES:

1. The mail cubicles can be either on the wall or through the wall.

**MAIL/WORK/COPY ROOM
E-AD-6**

CHAPTER 4: ELEMENTARY SCHOOL

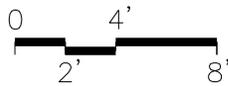
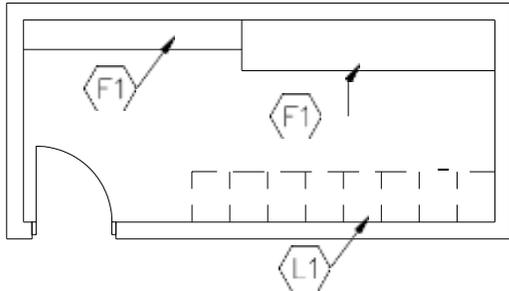
| <u>FINISHES¹:</u> | Spec. Ref.# | <u>FEATURES¹:</u> | Spec. Ref.# |
|--|---|---|-----------------------|
| Flooring: | | <u>Fixed Items:</u> | |
| Carpet, carpet tile, linoleum, rubber, ET, or sheet vinyl | 096500 096516 096816 096813 | F1 20'-24' combination base and wall cabinets | 123550 |
| Base: | | F2 8'-12' of tall storage cabinets or about 32' maximum of a combination storage cabinets | 123550 |
| Resilient base | 096500 | F3 3' sink base cabinet | 123550 |
| Ceiling: | | F4 Mail cubicles for all staff | 123200 |
| Suspended, acoustical | 095113 | F5 Reserved | |
| Walls: | | F6 Towel dispenser (optional) | 102813 |
| Painted gypsum wallboard over metal studs | 092116/099100 | F7 4' tack board or marker board (optional) | 101100 |
| <u>LOOSE FURNISHINGS:</u> | | <u>Fire Suppression:</u> | |
| L1 Work table and chairs (applicable in 300 SF space only) | | Fire suppression system | 211000 |
| Wastebasket | | <u>Plumbing:</u> | |
| | | Sink | 224000 |
| | | Plumbing connections | 224000/221116/221119 |
| | | <u>HVAC:</u> | |
| | | Supply/return air system | Div. 23 |
| | | Independent temperature control | 230923 |
| | | <u>Electrical:</u> | |
| | | Single level switching | 262726 |
| | | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-5 | |
| | | 3 - 5 duplex receptacles | 262726 |
| | | Receptacle for copier | 262726 |
| | | <u>Communications:</u> | |
| | | T1 1 voice port and phone | 271513/ 273123 |
| | | Clock | 275313 |
| | | Central sound system | 275123 |
| | | <u>Electronic Safety and Security:</u> | |
| | | Life safety devices per code | 283111 |
| | | <u>Miscellaneous:</u> | |
| | | The following item is to be funded by the school district: | |
| | | M1 Copier | |
| | | M2 Undercounter refrigerator | |
| | | M3 Microwave | |
| | | M4 Coffee maker | |

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.

**ADMINISTRATIVE STORAGE
E-AD-7**

CHAPTER 4: ELEMENTARY SCHOOL



PROGRAM ACTIVITIES:

- Supplies, books, records, forms, and equipment storage

SPATIAL RELATIONSHIPS:

- Near mail/work/copy room
- Near vault/records storage

ENVIRONMENTAL CONSIDERATIONS:

N/A

CAPACITY: N/A
 SIZE: 100 - 150 SF

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.

**ADMINISTRATIVE STORAGE
E-AD-7**

CHAPTER 4: ELEMENTARY SCHOOL

| <u>FINISHES¹:</u> | Spec. Ref.# | <u>FEATURES¹:</u> | Spec. Ref.# |
|--|---|--|----------------|
| Flooring: | | <u>Fixed Items:</u> | |
| Carpet, carpet tile, linoleum, rubber, ET, or sheet vinyl | 096500 096816 096813 096516 | F1 10'-20' of open shelving, depth may vary (fixed or loose) | 123550 |
| | | Option: mobile storage shelving | 105626 |
| Base: | | <u>Fire Suppression:</u> | |
| Resilient base | 096500 | Fire suppression system | 211000 |
| Ceiling: | | <u>Plumbing:</u> | |
| Suspended, acoustical | 095113 | N/A | |
| Walls: | | <u>HVAC:</u> | |
| Painted gypsum wallboard over metal studs | 092116/099100 | To be determined by Design Professional Supplemental heat as required | Div. 23 |
| <u>LOOSE FURNISHINGS:</u> | | <u>Electrical:</u> | |
| L1 File cabinets | | Single level switching | 262726 |
| | | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-5 | |
| | | 1 duplex receptacle | 262726 |
| | | <u>Communications:</u> | |
| | | N/A | |
| | | <u>Electronic Safety and Security:</u> | |
| | | N/A | |
| | | <u>Miscellaneous:</u> | |
| | | N/A | |

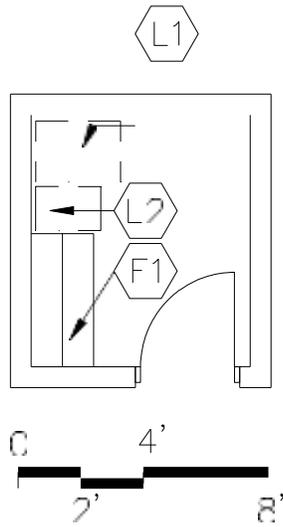
NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.

**VAULT/RECORDS STORAGE
E-AD-8**

CHAPTER 4: ELEMENTARY SCHOOL

50 SF



PROGRAM ACTIVITIES:

- Storage of records and security files in a secure area

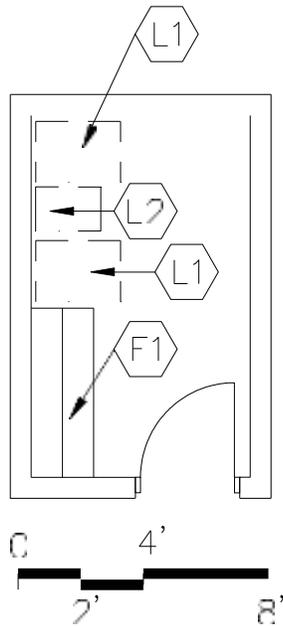
SPATIAL RELATIONSHIPS:

- Access to guidance area
- Access to secretarial personnel

ENVIRONMENTAL CONSIDERATIONS:

N/A

80 SF



**CAPACITY:
SIZE:**

N/A
80 – 115 SF

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.

**VAULT/RECORDS STORAGE
E-AD-8**

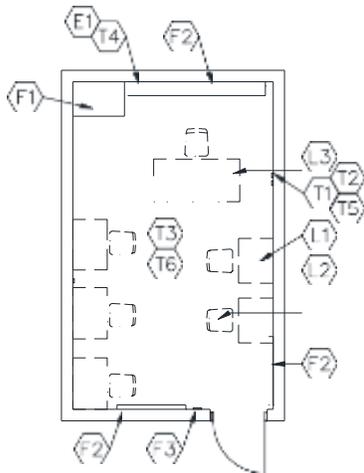
CHAPTER 4: ELEMENTARY SCHOOL

| | Spec. Ref.# | | Spec. Ref.# |
|--|---|--|----------------|
| <u>FINISHES¹:</u> | | <u>FEATURES¹:</u> | |
| Flooring: | | <u>Fixed Items:</u> | |
| Carpet, carpet tile, linoleum, rubber, ET, or sheet vinyl | 096500 096816 096813 096516 | F1 Open sheving (width may vary), (depth may vary)(fixed or loose) | 123550 |
| | | Option: mobile storage shelving | 105626 |
| Base: | | <u>Fire Suppression:</u> | |
| Resilient base | 096500 | Fire suppression system | 211000 |
| Ceiling: | | <u>Plumbing:</u> | |
| Rated 2-hour construction | --- | N/A | |
| Walls: | | <u>HVAC:</u> | |
| Rated 2-hour construction | | To be determined by Design Professional | |
| Painted concrete masonry units or 042000/099100 | | <u>Electrical:</u> | |
| Painted gypsum wallboard on metal studs 092116/099100 | | Single level switching | 262726 |
| | | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-5 | |
| | | 1 duplex receptacle | 262726 |
| <u>LOOSE FURNISHINGS:</u> | | <u>Communications:</u> | |
| L1 File cabinet (2 in 80 SF room) | | N/A | |
| L2 Safe (loose or fixed) | | <u>Electronic Safety and Security:</u> | |
| | | N/A | |
| | | <u>Miscellaneous:</u> | |
| | | Wall, ceiling, and door construction to have a 2-hour fire rating | |

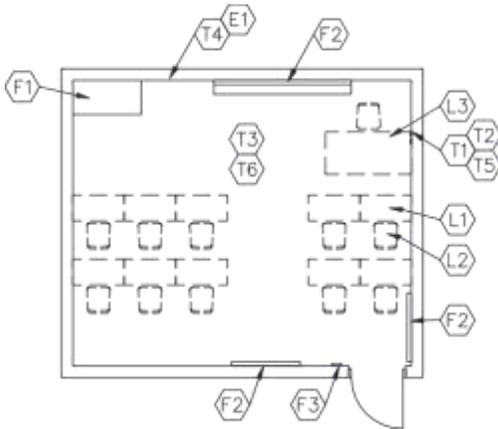
NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.

225 SF



325 SF



CAPACITY: 5 - 8 students
 SIZE: 225 - 600 SF

PROGRAM ACTIVITIES:

- Instructional area for students who require time away from the normal classroom due to behavioral problems

SPATIAL RELATIONSHIPS:

- Near principal's office
- Near secretarial area

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
 wall minimum STC 45
 ceiling minimum CAC 35, NRC 0.70
- Optional – window with integral blind

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.

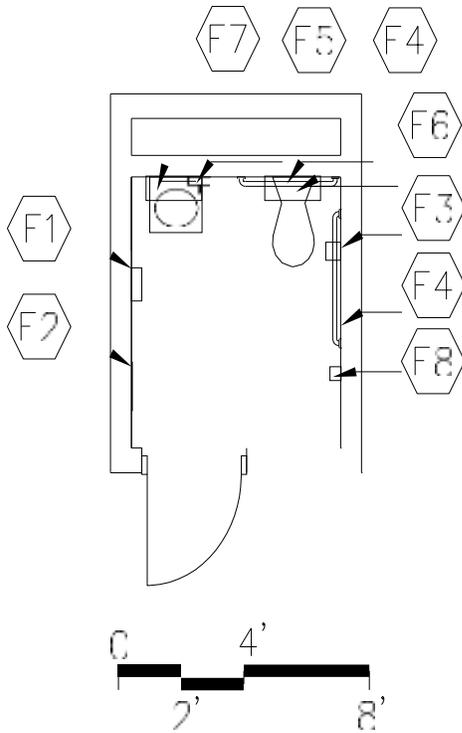
**IN-SCHOOL SUSPENSION
E-AD-9**

CHAPTER 4: ELEMENTARY SCHOOL

| | Spec. Ref.# | | Spec. Ref.# |
|--|----------------|--|----------------|
| FINISHES¹: | | FEATURES¹: | |
| Flooring: | | Fixed Items: | |
| Carpet, carpet tile, | 096816 | F1 3'-4' of base cabinets (optional) | 123550 |
| ET, linoleum, | 096500 | F2 10'-16' combination marker board, | 101100 |
| rubber, or sheet vinyl | 096813 | tackboard or tackable wall surface | |
| | 096516 | F3 Pencil sharpener support (optional) | 062000 |
| Base: | | Fire Suppression: | |
| Resilient base | 096500 | Fire suppression system | 211000 |
| Ceiling: | | Plumbing: | |
| Suspended, acoustical | 095113 | N/A | |
| Walls: | | HVAC: | |
| Paint | 099100 | Supply/return air system | Div. 23 |
| LOOSE FURNISHINGS: | | Independent temperature | |
| L1 Student carrels and/or desks | | control | 230923 |
| L2 Student chairs | | Electrical: | |
| L3 Teacher workstation and chair | | Single level switching | 262726 |
| L4 Reserved | | Fluorescent lighting | 265100 |
| Wastebasket | | Illumination level: See Table 8600-5 | |
| | | 4 duplex receptacles | 262726 |
| | | Double duplex receptacle adjacent to | |
| | | each data and video port | 262726 |
| | | Communications: | |
| | | T1 1 voice port and phone | 271513/273123 |
| | | T2 1 data port near teacher | |
| | | workstation | 271513 |
| | | T3 Wireless access point cable above ceiling | |
| | | | 271513 |
| | | T4 1 projector video port | 271543 |
| | | Clock | 275313 |
| | | Central sound system | 275123 |
| | | T5 Classroom technology center video port | |
| | | 271543, 274116, 274119, | |
| | | 275127 | |
| | | T6 Wireless access point (WAP) as | |
| | | determined by Design – refer to Note 2 | |
| | | 272133 | |
| Electronic Safety and Security: | | | |
| Life safety devices per code | 283111 | | |
| E1 Duplex receptacle with dedicated | | | |
| circuit for wireless devices | | | |
| Miscellaneous: | | | |
| Pencil sharpener (optional) | | | |

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.



PROGRAM ACTIVITIES:

- Personal and health needs for teachers and staff
- Restroom facilities for clinic

SPATIAL RELATIONSHIPS:

- Located in the administrative area

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
wall minimum STC 48
ceiling minimum CAC 35, NRC 0.70
- Moisture- and stain-resistant finishes

CAPACITY: 1 person
 SIZE: **60 SF**

NOTES:

**RESTROOM
E-AD-10**

CHAPTER 4: ELEMENTARY SCHOOL

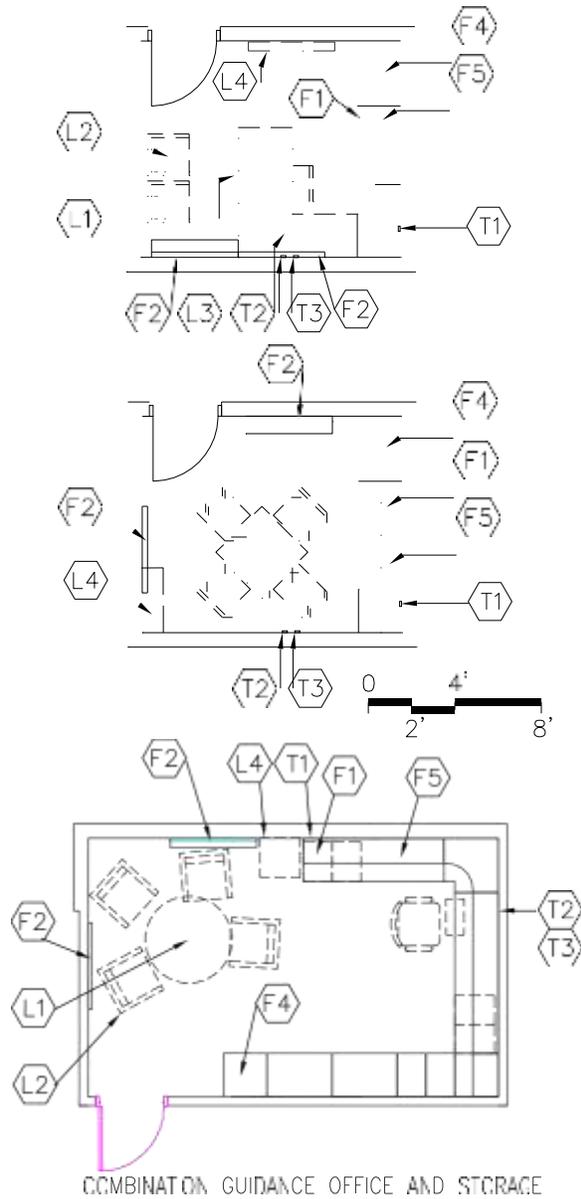
| <u>FINISHES¹:</u> | Spec. Ref.# | <u>FEATURES¹:</u> | Spec. Ref.# |
|--------------------------------------|----------------|--|----------------------|
| <u>Flooring:</u> | | <u>Fixed Items:</u> | |
| ET, or sheet vinyl | | F1 Towel dispenser | 102813 |
| Optional: ceramic mosaic tile, | 096500 | F2 24" x 60" mirror | 102813 |
| porcelain tile, or | 093000 | F3 Toilet tissue holder | 102813 |
| resinous flooring | 096723 | F4 36" and 42" grab bar | 102813 |
| | | F5 Soap dispenser | 102813 |
| <u>Base:</u> | | F6 8" deep wall cabinet above | |
| Resilient base | 096500 | toilet for supplies (optional) | 102813 F7 |
| Optional: ceramic mosaic tile, | 093000 | Stainless steel shelf (optional) | 102813 F8 |
| porcelain tile, resinous flooring, | 096723 | Coat hook | 102813 |
| or integral vinyl cove base | | | |
| <u>Ceiling:</u> | | <u>Fire Suppression:</u> | |
| Suspended, acoustical | 095113 | Fire suppression system | 211000 |
| <u>Walls:</u> | | <u>Plumbing:</u> | |
| Painted concrete masonry units | | Wall-mounted water closet | 224000 |
| | 042000/099100 | Wall-mounted lavatory | 224000 |
| Optional: moisture & abuse-resistant | | Plumbing connections | 224000/221116/221119 |
| gypsum wall board | 092116 | | |
| <u>LOOSE FURNISHINGS:</u> | | <u>HVAC:</u> | |
| Wastebasket | | Exhaust air system | Div. 23 |
| | | Supplemental heat as required | Div. 23 |
| | | <u>Electrical:</u> | |
| | | Single level switching | 262726 |
| | | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-5 | |
| | | 1 duplex receptacle | 262726 |
| | | <u>Communications:</u> | |
| | | Central sound system | 275123 |
| | | <u>Electronic Safety and Security:</u> | |
| | | Life safety devices per code | 283111 |
| | | <u>Miscellaneous:</u> | |
| | | N/A | |

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.

**GUIDANCE COUNSELOR'S OFFICE
E-AD-11**

CHAPTER 4: ELEMENTARY SCHOOL



PROGRAM ACTIVITIES:

- Guidance counselor to do individual work and provide assistance to students
- One-on-one conferences with parents and coordination of administrative tasks
- Could be combined with guidance records/storage

SPATIAL RELATIONSHIPS:

- Near guidance/records storage
- Near reception area
- Near secretarial area
- Access to school circulation areas

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control - wall minimum STC 45
ceiling minimum CAC 35, NRC 0.70
- Optional – window with integral blind

CAPACITY: 1 - 3 persons
SIZE: 100 - 120 SF

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.

**GUIDANCE COUNSELOR'S OFFICE
E-AD-11**

CHAPTER 4: ELEMENTARY SCHOOL

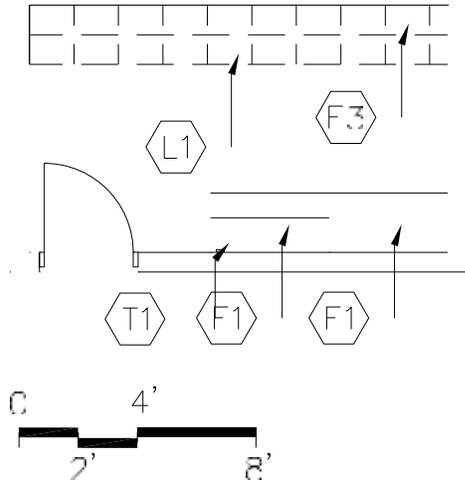
| <u>FINISHES¹:</u> | Spec. Ref.# | <u>FEATURES¹:</u> | Spec. Ref.# |
|--|----------------|---|----------------|
| Flooring: | | <u>Fixed Items:</u> | |
| Carpet or Carpet Tile | 096816 | F1 Work surface with file drawers | 123550 |
| | 096813 | F2 4' - 8' combination marker board, tack board, tackable wall surface | 101100 |
| Base: | | F3 Reserved | |
| Resilient base | 096500 | F4 Tall wardrobe | 123550 |
| Ceiling: | | F5 Wall cabinets | 123550 |
| Suspended, acoustical | 095113 | <u>Fire Suppression:</u> | |
| Walls: | | Fire suppression system | 211000 |
| Painted gypsum wallboard over metal studs | 092116/099100 | <u>Plumbing:</u> | |
| | | N/A | |
| <u>LOOSE FURNISHINGS:</u> | | <u>HVAC:</u> | |
| L1 Desk or table, with chair | | Supply/return air system | Div. 23 |
| L2 Visitor chairs | | Independent temperature control (coupled with similarly loaded adjacent spaces) | 230923 |
| L3 Computer desk return | | | |
| L4 Bookcase (fixed or loose) | | <u>Electrical:</u> | |
| Wastebasket | | Single level switching | 262726 |
| | | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-5 | |
| | | 4 duplex receptacles | 262726 |
| | | Double duplex receptacle adjacent to each data and video port | 262726 |
| | | <u>Communications:</u> | |
| | | T1 1 projector video port | 271543 |
| | | T2 1 voice port and phone | 271513/273123 |
| | | T3 1 data port near workstation | 271513 |
| | | Central sound system | 275123 |
| | | Clock | 275313 |
| | | <u>Electronic Safety and Security:</u> | |
| | | Life safety devices per code | 283111 |
| | | <u>Miscellaneous:</u> | |
| | | N/A | |

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references. Optional: moveable cabinets
2. Fixed casework and loose furnishings can also be all fixed casework or all loose furnishings.

**GUIDANCE RECORDS/STORAGE
E-AD-12**

CHAPTER 4: ELEMENTARY SCHOOL



PROGRAM ACTIVITIES:

- Storage of supplies, files, and equipment in a secure area

SPATIAL RELATIONSHIPS:

- Near guidance counselor's office
- Could be combined with guidance counselor's office

ENVIRONMENTAL CONSIDERATIONS:

N/A

CAPACITY: N/A
 SIZE: 55 - 150 SF

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.

**GUIDANCE RECORDS/STORAGE
E-AD-12**
CHAPTER 4: ELEMENTARY SCHOOL

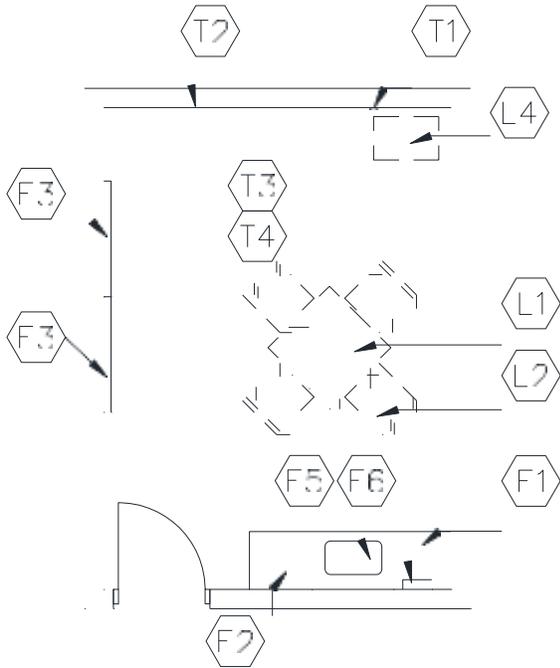
| <u>FINISHES¹:</u> | Spec. Ref.# | <u>FEATURES¹:</u> | Spec. Ref.# |
|--|---|--|----------------|
| <u>Flooring:</u> | | <u>Fixed Items:</u> | |
| <i>Carpet, carpet tile, linoleum, rubber, ET or sheet vinyl</i> | 096500 096813 096816 096516 | F1 6'-10' combination base and wall cabinets or tall cabinets | 123550 |
| | | Option: mobile storage shelving or file cabinets | 105626 |
| <u>Base:</u> | | <u>Fire Suppression:</u> | |
| Resilient base | 096500 | Fire suppression system | 211000 |
| <u>Ceiling:</u> | | <u>Plumbing:</u> | |
| Rated 2-hour construction | --- | N/A | |
| <u>Walls:</u> | | <u>HVAC:</u> | |
| Rated 2-hour construction | | To be determined by Design Professional | |
| Painted gypsum wallboard over metal studs or | 092116/099100 | <u>Electrical:</u> | |
| Painted concrete masonry units | 042000/099100 | Single level switching | 262726 |
| | | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-5 | |
| <u>LOOSE FURNISHINGS:</u> | | 1 duplex receptacle | 262726 |
| L1 File cabinets | | <u>Communications:</u> | |
| | | 1 data port (optional) | 271523 |
| | | <u>Electronic Safety and Security:</u> | |
| | | Life safety devices per code | 283111 |
| | | <u>Miscellaneous:</u> | |
| | | Wall, ceiling, and door construction to have a 2-hour fire rating | |

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.

**PARENT/VOLUNTEER ROOM
E-AD-13**

CHAPTER 4: ELEMENTARY SCHOOL



PROGRAM ACTIVITIES:

- After school meetings, community, and small group meetings

SPATIAL RELATIONSHIPS:

- Near administrative area

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
wall minimum STC 45
ceiling minimum CAC 35, NRC 0.70
- Optional – window with integral blind

CAPACITY: 2 - 8 persons
SIZE: 200 - 300 SF

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.

**PARENT/VOLUNTEER ROOM
E-AD-13**

CHAPTER 4: ELEMENTARY SCHOOL

| | Spec. Ref.# | | Spec. Ref.# |
|--|----------------|---|----------------------|
| <u>FINISHES¹:</u> | | <u>FEATURES¹:</u> | |
| Flooring: | | <u>Fixed Items:</u> | |
| Carpet or Carpet Tile | 096816 | F1 About 3' of base cabinets | 123550 |
| | 096813 | F2 Tall wardrobe | 123550 |
| Base: | | F3 4'-8' combination marker board, tack board, tackable wall surface | 101100 |
| Resilient base | 096500 | F4 Reserved | |
| Ceiling: | | F5 3' Sink base cabinet | 123550 |
| Suspended, acoustical | 095113 | F6 Towel dispenser | 102813 |
| Walls: | | <u>Fire Suppression:</u> | |
| Painted gypsum wallboard over metal studs | 092116/099100 | Fire suppression system | 211000 |
| <u>LOOSE FURNISHINGS:</u> | | <u>Plumbing:</u> | |
| L1 Table | | Sink | 224000 |
| L2 Chairs | | Plumbing connections | 224000/221116/221119 |
| L3 Reserved | | <u>HVAC:</u> | |
| L4 Monitor cart | | Supply/return air system | Div. 23 |
| Wastebasket | | Independent temperature control (coupled with similarly loaded adjacent spaces) | 230923 |
| <u>Miscellaneous:</u> | | <u>Electrical:</u> | |
| N/A | | Single level switching | 262726 |
| | | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-5 | |
| | | 4 duplex receptacles | 262726 |
| | | Double duplex receptacle adjacent to each data and video port | 262726 |
| | | <u>Communications:</u> | |
| | | T1 Reserved | |
| | | T2 voice port with phone | 271513/273123 |
| | | T3 Wireless access point cable above ceiling | 271513 |
| | | T4 Wireless access point (WAP) as determined by design – refer to note 2 | |
| | | 271533 | |
| | | Clock | 275313 |
| | | Central sound system | 275123 |
| | | <u>Electronic Safety and Security:</u> | |
| | | Life safety devices per code | 283111 |

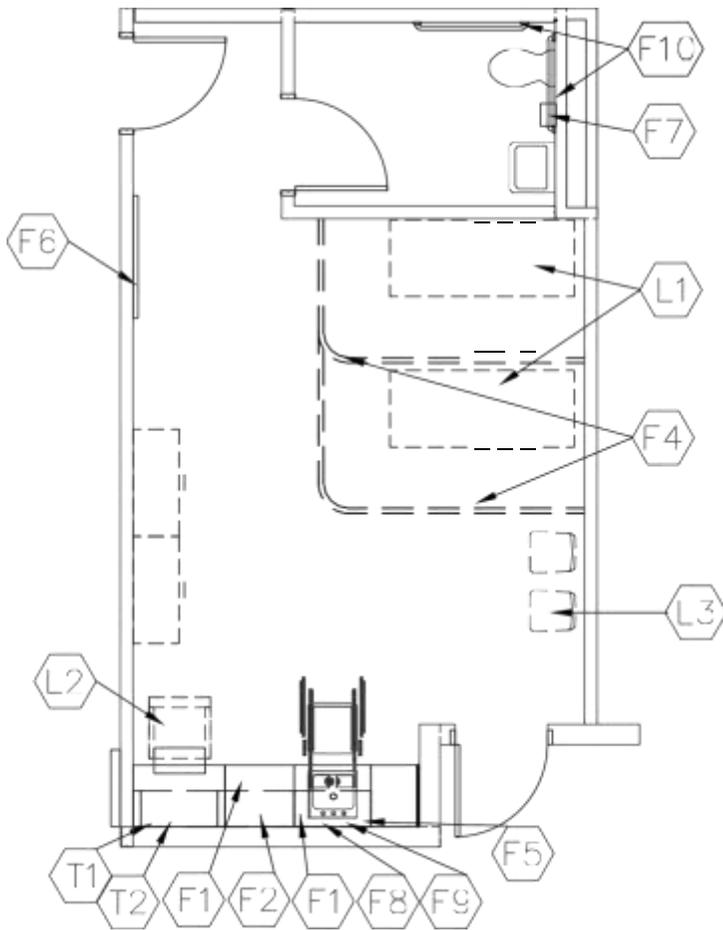
NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. **Baseline includes WAP cable. WAP device quantity / placement per 272133 requirements.**

HEALTH CLINIC (includes restroom)
E-AD-14

CHAPTER 4: ELEMENTARY SCHOOL

450 SF



CAPACITY: 2 - 5 patients
 SIZE: Clinic.....240 - **740** SF
 Restroom.....60 SF
 ANCILLARY SPACES: Secretarial Area
 E-AD-2

PROGRAM ACTIVITIES:

- Treatment of minor injuries, administration of medication, and conduction of hearing or vision tests

SPATIAL RELATIONSHIPS:

- Near reception area
- Adjacent to individual restroom
- Near special education shower

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control - wall minimum STC 48
ceiling minimum CAC 35, NRC 0.70
- Stain-resistant floor covering

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.

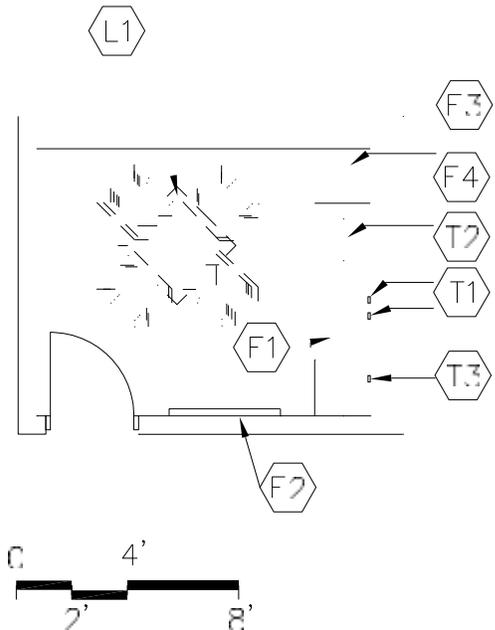
HEALTH CLINIC (includes restroom)
E-AD-14

CHAPTER 4: ELEMENTARY SCHOOL

| <u>FINISHES¹:</u> | Spec. Ref.# | <u>FEATURES¹:</u> | Spec. Ref.# |
|--|----------------|--|-----------------------|
| <u>Flooring:</u> | | <u>Fixed Items:</u> | |
| Linoleum, ET, | 096516 | F1 8'-18' combination base & lockable | 123550 |
| sheet vinyl, or | 096500 | wall cabinets | |
| resinous flooring | 096723 | F2 3' sink base cabinet | 123550 |
| Restroom: ET, sheet vinyl, | 096500 | F3 Reserved | |
| resinous flooring, ceramic | 093000 | F4 Cubicle curtain and track | 102123 |
| mosaic, or porcelain tile | 096723 | F5 Towel dispenser | 102813 |
| | | F6 4' of tack board | 101100 |
| <u>Base:</u> | | F7 Sanitary napkin dispenser/disposal | 102813 |
| Resilient base, resinous flooring, | 096500 | F8 Soap dispenser | 102813 |
| integral vinyl cover base, | 096723 | F9 24" x 60" mirror | 102813 |
| ceramic mosaic tile, porcelain tile | 093000 | F10 36" and 42" grab bars | 102813 |
| | | <u>Fire Suppression:</u> | |
| <u>Ceiling:</u> | | Fire suppression system | 211000 |
| Suspended, acoustical | 095113 | <u>Plumbing:</u> | |
| <u>Walls:</u> | | Wall-mounted water closet | 224000 |
| Painted gypsum wallboard | | Wall-mounted lavatory | 224000 |
| over metal studs | 092116/099100 | Sink - with goose neck | 224000 |
| | | Plumbing connections | 224000/221116/221119 |
| <u>LOOSE FURNISHINGS:</u> | | <u>HVAC:</u> | |
| L1 Cots | | Supply/return air system | Div. 23 |
| L2 Desk and chair | | Independent temperature control | 230923 |
| L3 Chairs | | Exhaust directly to exterior | |
| Wastebasket | | <u>Electrical:</u> | |
| <u>EQUIPMENT</u> | | Single level switching with dimmer | 262726 |
| E1 Refrigerator with ice making capabilities | | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-5 | |
| | | 2 duplex receptacles | 262726 |
| | | Double duplex receptacle adjacent | |
| | | to each data port | 262726 |
| | | Receptacle for refrigerator | 262726 |
| | | Emergency lighting | 265100 |
| | | <u>Communications:</u> | |
| | | T1 1 voice port and phone | 271513/ 273123 |
| | | T2 1 data port near workstation | 271523 |
| | | Clock | 275313 |
| | | Central sound system | 275123 |
| | | <u>Electronic Safety and Security:</u> | |
| | | Life safety devices per code | 283111 |
| | | <u>Miscellaneous:</u> | |
| | | N/A | |

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.



PROGRAM ACTIVITIES:

- Office and work area for specialists such as psychologist, reading specialist, etc., who regularly spend a portion of their schedule at one of several schools

SPATIAL RELATIONSHIPS:

- Near reception area
- Near secretarial area
- Direct access to school circulation areas
- Near main entrance to the building
- Near or accessible to principal's office and guidance counselor's office

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
wall minimum **STC 45**
ceiling minimum **CAC 35, NRC 0.70**
- **Optional – window with integral blind**

APACITY: 1 - 3 persons
SIZE: 120 SF

NOTES:

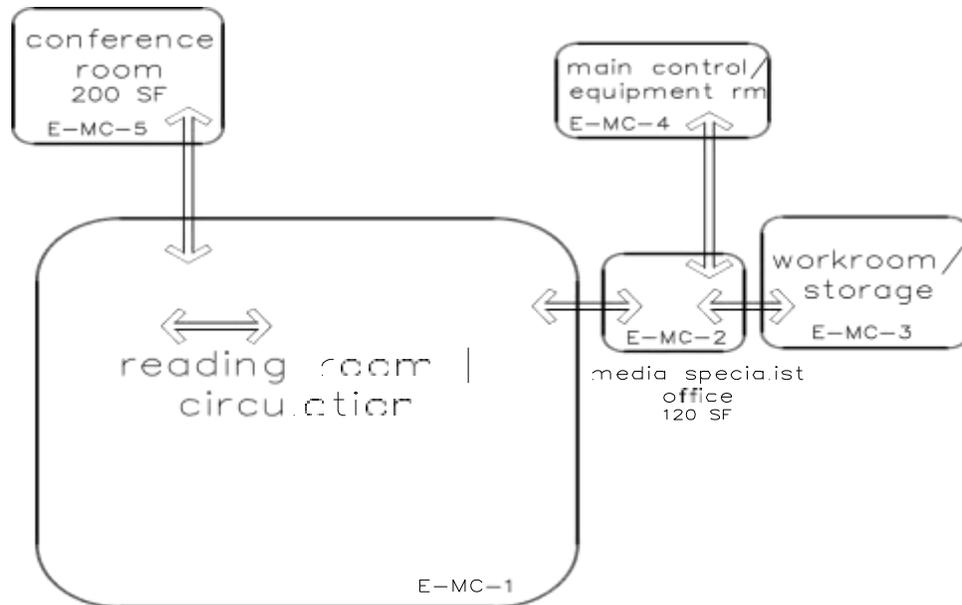
1. Loose furnishings shown represent one of many possible arrangements.

**ITINERANT PERSONNEL OFFICE
E-AD-15**
CHAPTER 4: ELEMENTARY SCHOOL

| | Spec. Ref.# | | Spec. Ref.# |
|--|----------------|---|----------------|
| <u>FINISHES¹:</u> | | <u>FEATURES¹:</u> | |
| Flooring: | | <u>Fixed Items:</u> | |
| Carpet or Carpet Tile | 096816 | F1 Work surface with file drawers(optional) | 123550 |
| | 096813 | F2 4'-8' of tack board, marker board or tackable wall surface | 101100 |
| Base: | | F3 Tall wardrobe (optional) | 123550 |
| Resilient base | 096500 | F4 Wall cabinets | 123550 |
| Ceiling: | | <u>Fire Suppression:</u> | |
| Suspended, acoustical | 095113 | Fire suppression system | 211000 |
| Walls: | | <u>Plumbing:</u> | |
| Painted gypsum wallboard over metal studs | 092116/099100 | N/A | |
| <u>LOOSE FURNISHINGS:</u> | | <u>HVAC:</u> | |
| L1 Table and chairs | | Supply/return air system | Div. 23 |
| Wastebasket | | Independent temperature control (coupled with similarly loaded adjacent spaces) | 230923 |
| | | <u>Electrical:</u> | |
| | | Single level switching | 262726 |
| | | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-5 | |
| | | 4 duplex receptacles | 262726 |
| | | Double duplex receptacle adjacent to data and video port | 262726 |
| | | <u>Communications:</u> | |
| | | T1 1 voice port and phone | 271513/273123 |
| | | T2 1 data port | 271513 |
| | | T3 1 projector video port | 271543 |
| | | Central sound system | 275123 |
| | | Clock | 275313 |
| | | <u>Electronic Safety and Security:</u> | |
| | | Life safety devices per code | 283111 |
| | | <u>Miscellaneous:</u> | |
| | | N/A | |

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references. Optional: moveable cabinets
2. Fixed casework and loose furnishings can also be all fixed casework or all loose furnishings.



NOTES:

This is an example of how the media center spaces in an elementary school could be arranged. This is meant only to demonstrate the relationships between various spaces of this area.

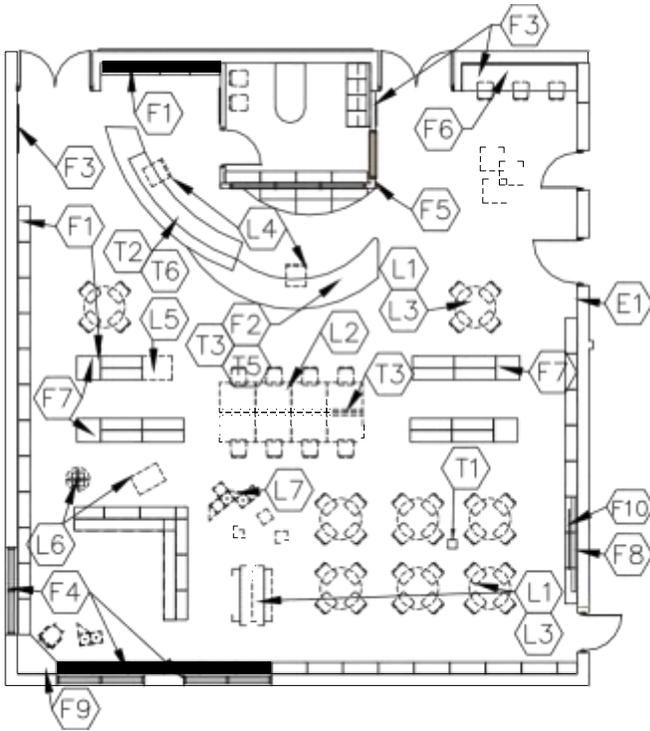
Following are the Media Center space plates:

- E-MC-1 Reading Room/Circulation
- E-MC-2 Media Specialist Office
- E-MC-3 Workroom/Storage
- E-MC-4 Main Control/Equipment Room
- E-MC-5** Conference Room

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**READING ROOM/CIRCULATION
E-MC-1**

CHAPTER 4: ELEMENTARY SCHOOL



PROGRAM ACTIVITIES:

- Media center is an information laboratory that serves the instructional needs of the entire school.
- Provides students with access to information, technology, and multimedia materials in an area that will allow for individual, small group, and classroom research. Space should encourage development of positive attitudes toward reading and learning.

SPATIAL RELATIONSHIPS:

- Near academic center of the school
- Access to classrooms
- Easy access to public parking

ENVIRONMENTAL CONSIDERATIONS:

- Natural light opening with an operable vent
- Environmental sound control -
 wall only minimum STC 45
 ceiling minimum CAC 35, NRC 0.70

CAPACITY: 10% of student capacity
SIZE: Based on the student capacity
 10% of student capacity multiplied
 by 30 SF per student

NOTES:

1. Loose furnishings shown represents one of many possible arrangements.

**READING ROOM/CIRCULATION
E-MC-1**

CHAPTER 4: ELEMENTARY SCHOOL

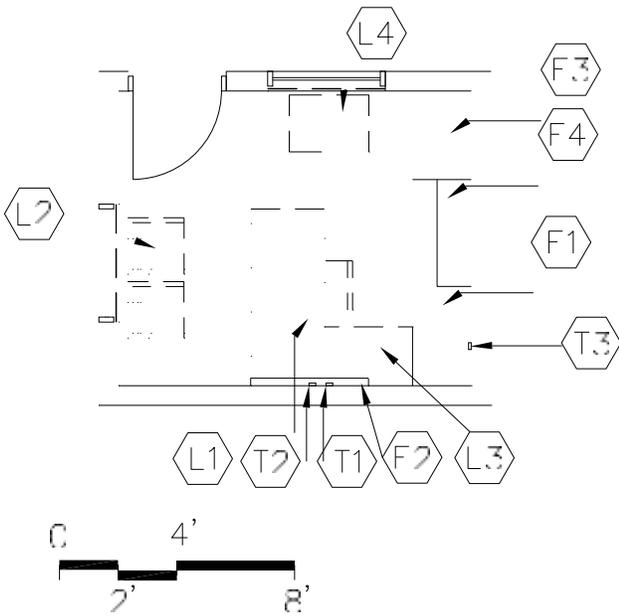
| <u>FINISHES¹:</u> | Spec. Ref.# | <u>FEATURES¹:</u> | Spec. Ref.# |
|---|----------------|---|----------------|
| <u>Flooring:</u> | | <u>Fixed Items:</u> | |
| Carpet or Carpet Tile | 096816 | F1 Library book shelving (see notes) | 115123 |
| | 096813 | F2 Circulation desk casework | 123550 |
| <u>Base:</u> | | F3 12'-16' of tack board or tackable wall surface (optional) | 101100 |
| Resilient base | 096500 | F4 Windows with integral blinds (optional) | 085113 |
| <u>Ceiling:</u> | | F5 Pencil sharpener support (optional) | 062000 |
| Suspended, acoustical | 095113 | Computer workstations (could be loose) | 123550 |
| <u>Walls:</u> | | F7 Search terminal stations | 123550 |
| Painted concrete masonry units | 042000/099100 | F8 Marker board (optional) | 101100 |
| Acoustical wall treatment | 098800 | F9 Technology support casework | 123550 |
| <u>LOOSE FURNISHINGS³:</u> | | F10 Projection screen (optional) | 115213 |
| L1 Student tables | | Roller window shades (optional) | 122413 |
| L2 Computer workstation furniture | | <u>Fire Suppression:</u> | |
| L3 Student chairs | | Fire suppression system | 211000 |
| L4 Circulation desk task chair | | <u>Plumbing:</u> N/A | |
| L5 Atlas stand | | <u>HVAC:</u> | |
| L6 Paperback book rack | | Supply/return air system | Div. 23 |
| L7 Modular picture book display | | Independent temperature ctrl | 230923 |
| Wastebaskets | | <u>Electrical:</u> | |
| <u>Miscellaneous:</u> Various sizes of casework for dictionaries, magazines, displays, card catalog, etc., may be required. | | Multi-level switching | 262726 |
| Pencil sharpener (optional) | | Fluorescent lighting | 265100 |
| E1 Duplex receptacle with dedicated circuit for wireless devices | | illumination level: See Table 8600-5 | |
| <u>Communications (cont'd):</u> | | 6 duplex receptacles (minimum) | 262726 |
| T6 Classroom technology center video port 271543, 274116, 274119, 275127 | | Double duplex receptacle adjacent to each data and video port | 262726 |
| | | Means of egress lighting per code | 265100 |
| | | Emergency lighting | 265100 |
| | | <u>Electronic Safety and Security:</u> | |
| | | Life safety devices per code | 283111 |
| | | <u>Communications:</u> | |
| | | T1 1 projector video ports and video display devices | 271543/274119 |
| | | T2 1 voice port and phone | 271513/273123 |
| | | T3 Wireless access point cable above ceiling | 271513 |
| | | T4 1 data port for library automation system | 271513 |
| | | Clock | 275313 |
| | | Central sound system | 275123 |
| | | T5 Wireless access point (WAP) as determined by Design – refer to Note 6 | 272133 |

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Fixed casework and loose furnishings can be interchangeable.
3. Circulation desk(s) and library shelving can be loose furnishings.
4. Technology components may be placed in a separate small cabinet, or integrated in the other casework in the room.
5. Up to 20% of book shelving can be movable.
6. **Baseline includes WAP cable. WAP device quantity / placement per 272133 requirements.**

**MEDIA SPECIALIST OFFICE
E-MC-2**

CHAPTER 4: ELEMENTARY SCHOOL



PROGRAM ACTIVITIES:

- Media specialist to conduct duties

SPATIAL RELATIONSHIPS:

- Near reading room/circulation area
- Near workroom/storage
- Could be part of the media center reading room

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
wall minimum STC 45
ceiling minimum CAC 35, NRC 0.70

CAPACITY: 1 - 3 persons
SIZE: 120 SF

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.

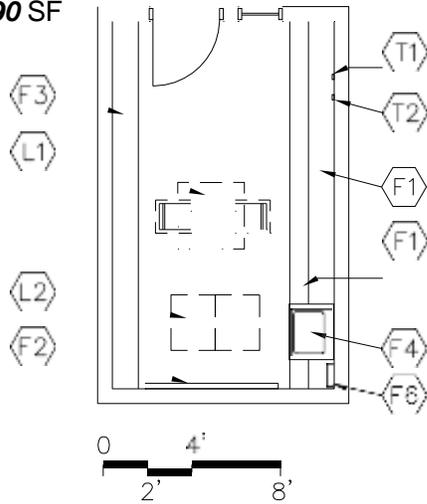
**MEDIA SPECIALIST OFFICE
E-MC-2**
CHAPTER 4: ELEMENTARY SCHOOL

| | Spec. Ref.# | | Spec. Ref.# |
|--------------------------------|----------------|--|----------------|
| <u>FINISHES¹:</u> | | <u>FEATURES¹:</u> | |
| Flooring: | | <u>Fixed Items:</u> | |
| Carpet or Carpet Tile | 096816 | F1 Work surface with file drawers | 123550 |
| | 096813 | F2 4' of tack board, marker board, or tackable wall surface | |
| Base: | | F3 Tall wardrobe | 123550 |
| Resilient base | 096500 | F4 Wall cabinets | 123550 |
| Ceiling: | | F5 Bookcases (optional) | 123550 |
| Suspended, acoustical | 095113 | | |
| Walls: | | <u>Fire Suppression:</u> | |
| Painted concrete masonry units | 042000/099100 | Fire suppression system | 211000 |
| | | <u>Plumbing:</u> | |
| | | N/A | |
| <u>LOOSE FURNISHINGS:</u> | | <u>HVAC:</u> | |
| L1 Desk and chair | | Supply/return air system | Div. 23 |
| L2 Visitor chairs | | Independent temperature control | 230923 |
| L3 Computer desk return | | (coupled with similarly loaded adjacent spaces) | |
| L4 File cabinet | | | |
| Wastebasket | | <u>Electrical:</u> | |
| | | Single level switching | 262726 |
| | | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-5 | |
| | | 4 duplex receptacles | 262726 |
| | | Double duplex receptacle adjacent to data and video port | 262726 |
| | | <u>Electronic Safety and Security:</u> | |
| | | Life safety devices per code | 283111 |
| | | <u>Communications:</u> | |
| | | T1 1 voice port and phone | 271513/273123 |
| | | 1 data port near workstation | 271513 |
| | | T3 1 projector video port | 271543 |
| | | Central sound system | 275123 |
| | | Clock | 275313 |
| | | <u>Miscellaneous:</u> | |
| | | Interior window | 081113/088000 |

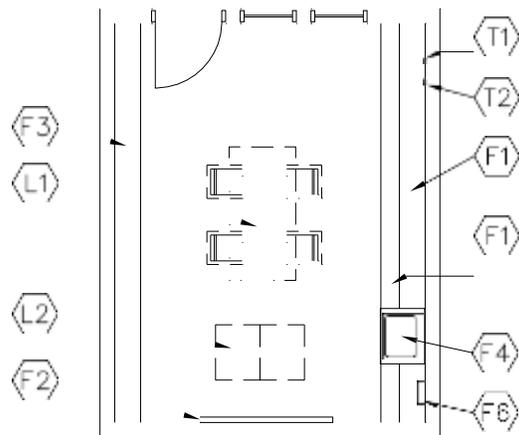
NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references. Optional: moveable cabinets
2. Fixed casework and loose furnishings can either be all fixed casework or all loose furnishings.

190 SF



250 SF



CAPACITY:
SIZE:

1 - 3 staff
190 - 400 SF

PROGRAM ACTIVITIES:

- Receiving, processing, and repairing media material

SPATIAL RELATIONSHIPS:

- Near reading room/circulation
- Near media specialist office

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
wall minimum STC 45
ceiling minimum CAC 35, NRC 0.70
- Visual access to reading room/circulation

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.

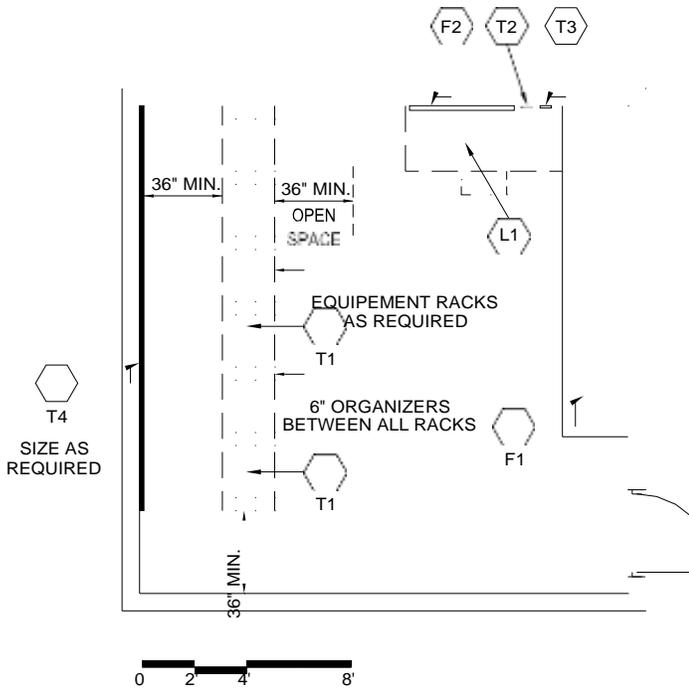
**WORKROOM/STORAGE
E-MC-3**

CHAPTER 4: ELEMENTARY SCHOOL

| <u>FINISHES¹:</u> | Spec. Ref.# | <u>FEATURES¹:</u> | Spec. Ref.# |
|---|--|--|-----------------------|
| <u>Flooring:</u> | | <u>Fixed Items²:</u> | |
| Carpet, carpet tile, ET or sheet vinyl, linoleum, rubber | 096500 096813 096516 | F1 20'-30' combination base & wall cabinets | 123550 |
| | | F2 4'-8' of tack board or marker board | 101100 |
| | | F3 10' - 18' of bookcases (optional) | 123550 |
| | | F4 3' sink base cabinet | 123550 |
| <u>Base:</u> | | F5 Reserved | |
| Resilient base | 096500 | F6 Towel dispenser | 102813 |
| <u>Ceiling:</u> | | <u>Fire Suppression:</u> | |
| Suspended, acoustical | 095113 | Fire suppression system | 211000 |
| <u>Walls:</u> | | <u>Plumbing:</u> | |
| Painted concrete masonry units | 042000/099100 | Sink | 224000 |
| | | Plumbing connections | 224000/221116/221119 |
| <u>LOOSE FURNISHINGS:</u> | | <u>HVAC:</u> | |
| L1 Table and chairs | | Supply/return air system | Div. 23 |
| L2 Book trucks | | Independent temperature control | 230923 |
| Wastebasket | | <u>Electrical:</u> | |
| | | Single level switching | 262726 |
| | | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-5 | |
| | | 3 duplex receptacles (minimum) | 262726 |
| | | Double duplex receptacle adjacent to each data port | 262726 |
| | | <u>Communications:</u> | |
| | | T1 1 voice port and phone | 271513/ 273123 |
| | | T2 1 data port | 271523 |
| | | Clock | 275313 |
| | | Central sound system | 275123 |
| | | <u>Electronic Safety and Security:</u> | |
| | | Life safety devices per code | 283111 |
| | | <u>Miscellaneous:</u> | |
| | | Interior window | 081113/088000 |

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Ranges shown indicate quantities for the smallest and largest possible room size.



PROGRAM ACTIVITIES:

- Collection and distribution hub for the voice, video, and data networks within the facility
- Contains racks for distribution equipment

SPATIAL RELATIONSHIPS:

- Near the center of the building to minimize the number of telecommunication rooms (TR)

ENVIRONMENTAL CONSIDERATIONS:

- Ventilation and cooling of heat-generating electronic equipment

Note: Technology designer shall confer with school district technology director to determine equipment and space needed and coordinate with project designer.

CAPACITY: N/A
 SIZE: **(Baseline) (Minimum)** 300 SF

ER Utilized as district N.O.C. – add minimum 150 SF
ER Utilized as building data center for central servers/thin client – add minimum 30 SF per 10 classrooms

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.
2. **Verify and coordinate ER size and location with the technology designer during programming phase.**

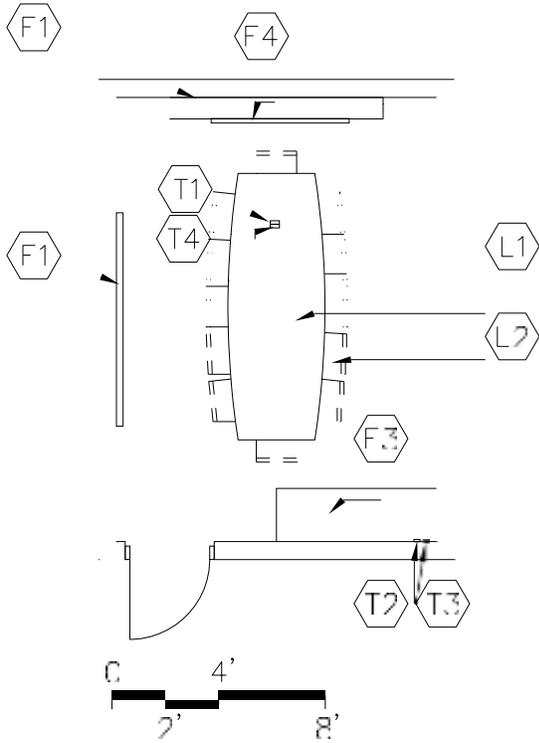
**MAIN CONTROL / EQUIPMENT ROOM
E-MC-4**

CHAPTER 4: ELEMENTARY SCHOOL

| <u>FINISHES¹:</u> | Spec. Ref.# | <u>FEATURES¹:</u> | Spec. Ref.# |
|--|----------------|--|----------------------|
| Flooring: | | <u>Fixed Items:</u> | |
| ET or sheet vinyl (static dissipative flooring) | 096500 | F1 8'-16' of open shelving, depth may vary, (fixed or loose) | 123550 |
| Base: | | F2 4' of tack board or marker board | 101100 |
| Resilient base | 096500 | <u>Fire Suppression:</u> | |
| Ceiling: | | Fire suppression system | 211000 |
| Suspended, acoustical | 095113 | <u>Plumbing:</u> | |
| Walls: | | N/A | |
| Painted concrete masonry units | 042000/099100 | <u>HVAC:</u> | |
| <u>LOOSE FURNISHINGS:</u> | | Independent, packaged system | Div. 23 |
| L1 Desk and chair | | <u>Electrical:</u> | |
| Wastebasket | | Single level switching | 262726 |
| | | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-5 | |
| | | 3 duplex receptacles | 262726 |
| | | Duplex receptacle for electronic systems | 262726 |
| | | Telecommunications Grounding | |
| | | 270526/260526 | |
| | | Standby power | 263213/263600 |
| | | <u>Communications:</u> | |
| | | T1 Technology Equipment | |
| | | Central sound system | 275123 |
| | | Telephone wiring | 271513/271313 |
| | | Integrated telephone system | 273123 |
| | | Video wiring | 271543 |
| | | Digital on demand delivery system | 274125 |
| | | Local area network wiring | 271513/271323 |
| | | Local area network electronics | 272100/272133 |
| | | Grounding & Infrastructure Equipment | |
| | | 270526/271100 | |
| | | T2 1 voice port and phone | 271513/273123 |
| | | T3 1 data port near workstation | 271513 |
| | | T4 1/4" plywood back board | 271313 |
| | | <u>Electronic Safety and Security:</u> | |
| | | Life safety devices per code | 283111 |
| | | Security system | 281300/281600/282300 |
| | | <u>Miscellaneous:</u> | |
| | | Provide distribution equipment with an equipment electrical ground. | |

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.



PROGRAM ACTIVITIES:

- Used primarily by students for group projects

SPATIAL RELATIONSHIPS:

- Near reading room/circulation

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
wall minimum STC 45
ceiling minimum CAC 35, NRC 0.70

CAPACITY: 8 - 12 persons
SIZE: 200 SF

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.

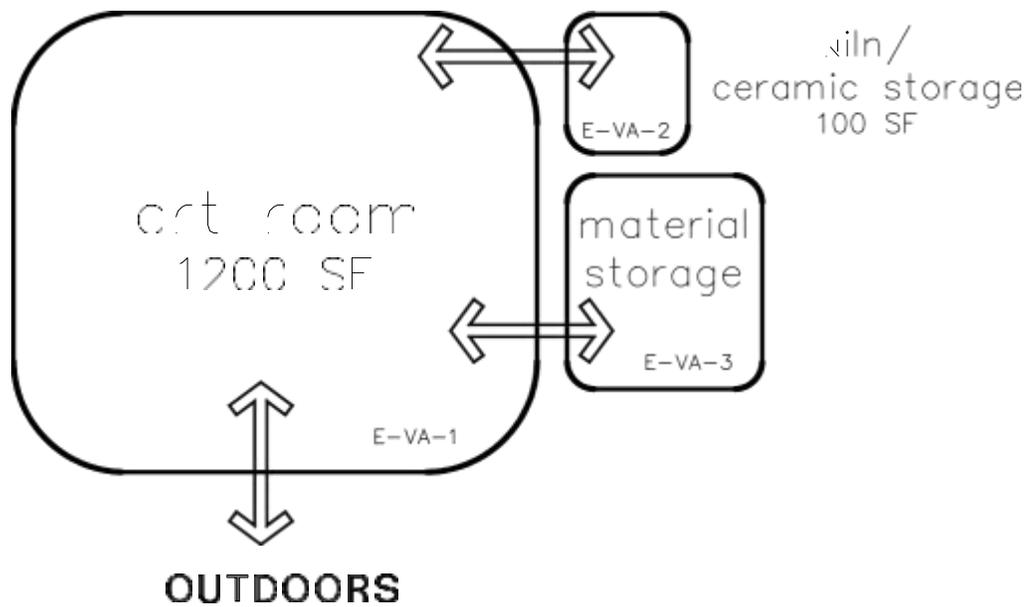
**CONFERENCE ROOM
E-MC-5**

CHAPTER 4: ELEMENTARY SCHOOL

| <u>FINISHES¹:</u> | Spec. Ref.# | <u>FEATURES¹:</u> | Spec. Ref.# |
|--------------------------------|----------------|---|----------------|
| Flooring: | | <u>Fixed Items:</u> | |
| Carpet or Carpet Tile | 096816 | F1 14'-18' combination marker board, tack board or tackable wall surface | 101100 |
| | 096813 | F2 Reserved | |
| Base: | | F3 4'-6' of base cabinets (optional) (fixed or mobile) | 123550 |
| Resilient base | 096500 | F4 Projection screen (optional) | 115213 |
| Ceiling: | | <u>Fire Suppression:</u> | |
| Suspended, acoustical | 095113 | Fire suppression system | 211000 |
| Walls: | | <u>Plumbing:</u> | |
| Painted concrete masonry units | 042000/099100 | N/A | |
| <u>LOOSE FURNISHINGS:</u> | | <u>HVAC:</u> | |
| L1 Conference table | | Supply/return air system | Div. 23 |
| L2 Chairs | | Independent temperature control | 230923 |
| Wastebasket | | <u>Electrical:</u> | |
| | | Multilevel switching | 262726 |
| | | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-5 | |
| | | 3 duplex receptacles | 262726 |
| | | Double duplex receptacle adjacent to each data and video port | 262726 |
| | | <u>Communications:</u> | |
| | | T1 1 projector video port | 271543 |
| | | T2 1 voice port and phone | 271513/273123 |
| | | T3 1 data port | 271513 |
| | | T4 Ultra-short throw interactive projector | 274119 |
| | | Central sound system | 275123 |
| | | Clock | 275313 |
| | | <u>Electronic Safety and Security:</u> | |
| | | Life safety devices per code | 283111 |
| | | <u>Miscellaneous:</u> | |
| | | N/A | |

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Fixed equipment or loose furnishings can also be all fixed equipment or all loose furnishings.

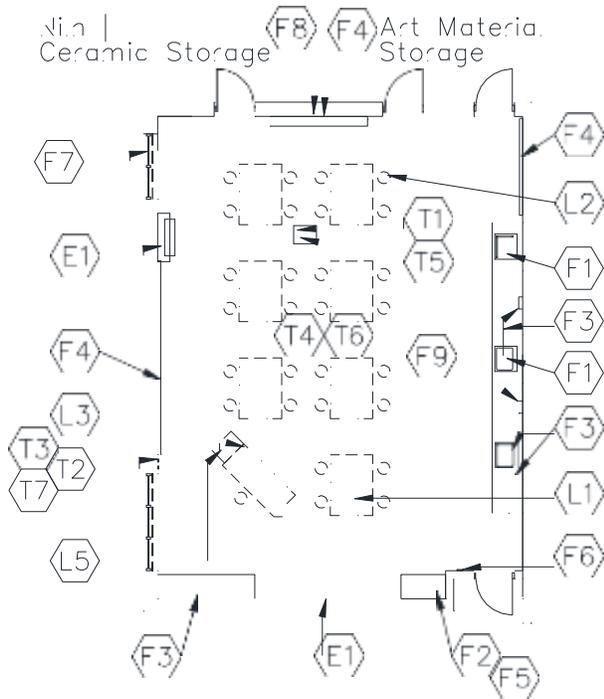
**NOTES:**

This is an example of how the visual arts spaces in an elementary school could be arranged. This is meant only to demonstrate the relationships between various spaces of this area.

Following are the Visual Arts space plates:

| | |
|--------|----------------------|
| E-VA-1 | Art Room |
| E-VA-2 | Kiln/Ceramic Storage |
| E-VA-3 | Art Material Storage |

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CAPACITY: 28 students
 SIZE: 1,200 SF
 ANCILLARY SPACES: Kiln/Ceramic Storage E-VA-2
 Art Material Storage E-VA-3

PROGRAM ACTIVITIES:

- Art students will work on a variety of two and three-dimensional art projects. Projects will include drawing and painting, computer graphics, sculpture and model making, collage, fiber arts, and ceramics.

SPATIAL RELATIONSHIPS:

- Near academic core classrooms
- Direct access to outdoors or access through adjacent corridor

ENVIRONMENTAL CONSIDERATIONS:

- Required: View glass – minimum 5% without daylighting design; minimum 3% with daylighting design.
 Recommended: Daylighting design with glazing area determined by design solution.
- Environmental sound control -
 wall only minimum STC 45
 ceiling minimum CAC 35, NRC 0.70
- Stain-resistant floor covering

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.

**ART ROOM
E-VA-1**

CHAPTER 4: ELEMENTARY SCHOOL

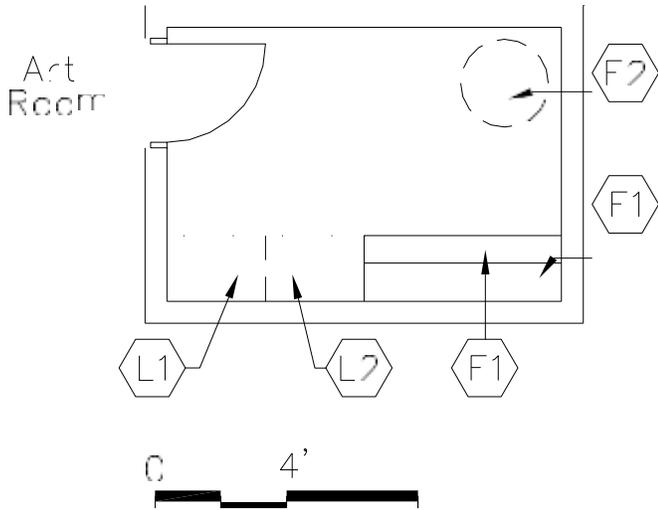
| | Spec. Ref.# | | Spec. Ref.# |
|---|----------------|---|--------------------------------|
| FINISHES¹: | | FEATURES¹: | |
| Flooring: | | Fixed Items: | |
| E1, sealed concrete, | 096500 | F1 3'-4' sink base cabinet, | 123550 |
| sheet vinyl, rubber, | 033000 | or several wash fountains | |
| polished concrete finishing, | 033510 | F2 Tall wardrobe with file drawers | 123550 |
| or colored concrete finishing | 033519 | F3 26'-34' combination tall storage, | 123550 |
| Base: | | F4 24'-32' combination marker | 101100 |
| Resilient base | 096500 | F5 board, tackboard, tackable wall surface | |
| Ceiling: | | F6 Technology support casework | 123550 |
| Suspended, acoustical | 095113 | F6 Pencil sharpener support (optional) | 062000 |
| Walls: | | F7 Windows with integral blinds | 085113 |
| Paint | | F8 Projection screen (optional) | 115213 |
| 099100 | | F9 Towel dispenser (optional) | 102813 |
| LOOSE FURNISHINGS: | | Fire Suppression: | |
| L1 Student work tables | | Fire suppression system | 211000 |
| L2 Student chairs or stools | | Plumbing: | |
| L3 Teacher desk and chair/stool and teacher computer support | | Sinks with solids interceptor | 224000 |
| L4 Reserved | | Plumbing connections | 224000/221116/221119 |
| L5 Desk height file cabinet | | HVAC: | |
| Wastebasket | | Supply/return air system | Div. 23 |
| EQUIPMENT: | | Independent temperature control | 230923 |
| E1 Drying rack | | Manually controlled general exhaust | Div. 23 |
| Electronic Safety and Security: | | Electrical: | |
| Life safety devices per code | 283111 | Fluorescent lighting | 265100 |
| Miscellaneous: | | Illumination level: See Table 8600-5 | |
| Pencil sharpener (optional) | | Multilevel switching | 262726 |
| E1 Duplex receptacle with dedicated circuit for wireless devices | | 4 duplex receptacles | 262726 |
| | | Double duplex receptacle adjacent to each data and video port | 262726 |
| | | Track lighting | 265100 |
| | | Means of egress lighting per code | 265100 |
| | | Emergency lighting per code | 265100 |
| | | Communications: | |
| | | T1 1 projector video port | 271543 |
| | | T2 1 voice port and phone | 271513/273123 |
| | | T3 1 data port | |
| | | near teacher workstation | 271513 |
| | | T4 Wireless access point cable above ceiling | 271513 |
| | | Clock | 275313 |
| | | Central sound system | 275123 |
| | | Sound reinforcement system | 275127 |
| | | T5 Ultra-short throw interactive projector | 274119 |
| | | T6 Wireless access point (WAP) as determined by Design – refer to Note 2 | 272133 |
| | | T7 Classroom technology center video port | 271543, 274116, 274119, 275127 |

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.

**KILN/CERAMIC STORAGE
E-VA-2**

CHAPTER 4: ELEMENTARY SCHOOL



PROGRAM ACTIVITIES:

- Firing of art projects in ceramics and pottery by the teacher

SPATIAL RELATIONSHIPS:

- Adjacent to art room
- Near art material storage

ENVIRONMENTAL CONSIDERATIONS:

- Ventilation controlled by a thermostat

| | |
|-------------------|--------------------|
| CAPACITY: | N/A |
| SIZE: | 100 SF |
| ANCILLARY SPACES: | Art Room E-VA-1 |

NOTES:

**KILN/CERAMIC STORAGE
E-VA-2**

CHAPTER 4: ELEMENTARY SCHOOL

| <u>FINISHES¹:</u> | Spec. Ref.# | <u>FEATURES¹:</u> | Spec. Ref.# |
|--|----------------|---|----------------|
| <u>Flooring:</u> | | <u>Fixed Items:</u> | |
| Sealed concrete, | 033000 | F1 6'-12' combination base and wall cabinets | 123550 |
| polished concrete finishing, or | 033510 | F2 Kiln | 119200 |
| colored concrete finishing | 033519 | | |
| <u>Base:</u> | | <u>Fire Suppression:</u> | |
| Resilient base | 096500 | Fire suppression system | 211000 |
| <u>Ceiling:</u> | | <u>Plumbing:</u> | |
| Suspended, acoustical | 095113 | N/A | |
| <u>Walls:</u> | | <u>HVAC:</u> | |
| Painted concrete masonry units | | Temperature controlled exhaust | Div. 23 |
| 042000/099100 | | Ventilation for kiln | Div. 23 |
| <u>LOOSE FURNISHINGS:</u> | | <u>Electrical:</u> | |
| L1 3' of tall dry storage units (total) | | Single level switching | 262726 |
| L2 3' of tall damp storage units (total) | | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-5 | |
| L1 and L2 could be fixed casework. | | 1 duplex receptacle | 262726 |
| | | Electrical connection for kiln | 262726 |
| | | <u>Communications:</u> | |
| | | Central sound system | 275123 |
| | | <u>Electronic Safety and Security:</u> | |
| | | Life safety devices per code | 283111 |
| | | <u>Miscellaneous:</u> | |
| | | N/A | |

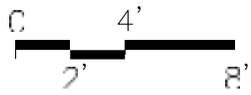
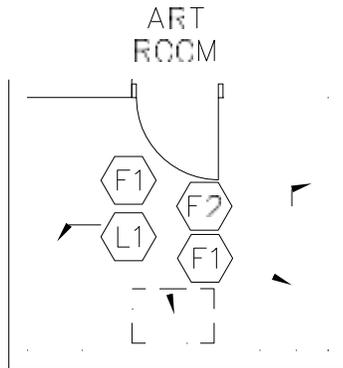
NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.

**ART MATERIAL STORAGE
E-VA-3**

CHAPTER 4: ELEMENTARY SCHOOL

100 SF



PROGRAM ACTIVITIES:

- Storage of art supplies and materials

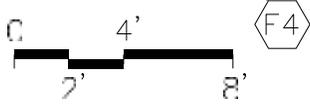
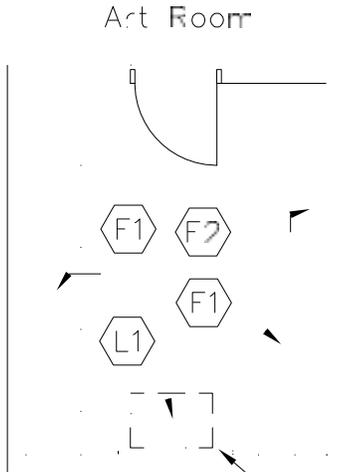
SPATIAL RELATIONSHIPS:

- Adjacent to art room

ENVIRONMENTAL CONSIDERATIONS:

- Stain-resistant floor covering

150 SF



CAPACITY: N/A
 SIZE: 100 - 150 SF
 ANCILLARY SPACES: Art Room
 E-VA-1

NOTES:

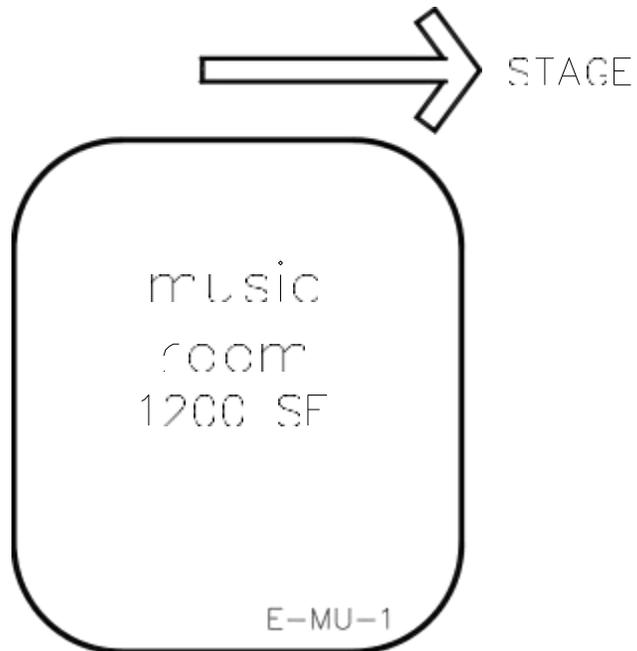
**ART MATERIAL STORAGE
E-VA-3**

CHAPTER 4: ELEMENTARY SCHOOL

| <u>FINISHES¹:</u> | Spec. Ref.# | <u>FEATURES¹:</u> | Spec. Ref.# |
|-------------------------------------|----------------|--|----------------|
| Flooring: | | <u>Fixed Items²:</u> | |
| ET, sealed concrete, rubber, | 096500 | F1 16' – 28' combination tall storage | 123550 |
| sheet vinyl, | 093000 | cabinets and wall cabinets | |
| polished concrete finishing | 033510 | F2 8' - 14' base cabinets, | |
| or colored concrete finishing | 033519 | (depth for school's need) | 123550 |
| Base: | | <u>Fire Suppression:</u> | |
| Resilient base | 096500 | Fire suppression system | 211000 |
| Ceiling: | | <u>Plumbing:</u> | |
| Suspended, acoustical | 095113 | N/A | |
| Walls: | | <u>HVAC:</u> | |
| Painted concrete masonry units | 042000/099100 | Exhaust air system | Div. 23 |
| | | Supplemental heat as required | Div. 23 |
| <u>LOOSE FURNISHINGS:</u> | | <u>Electrical:</u> | |
| L1 Mobile materials cart | | Single level switching | 262726 |
| | | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-5 | |
| | | Duplex receptacle above base cabinet | 262726 |
| | | <u>Communications:</u> | |
| | | N/A | |
| | | <u>Electronic Safety and Security:</u> | |
| | | N/A | |
| | | <u>Miscellaneous:</u> | |
| | | N/A | |

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Ranges shown indicate quantities for the smallest and largest possible room size.

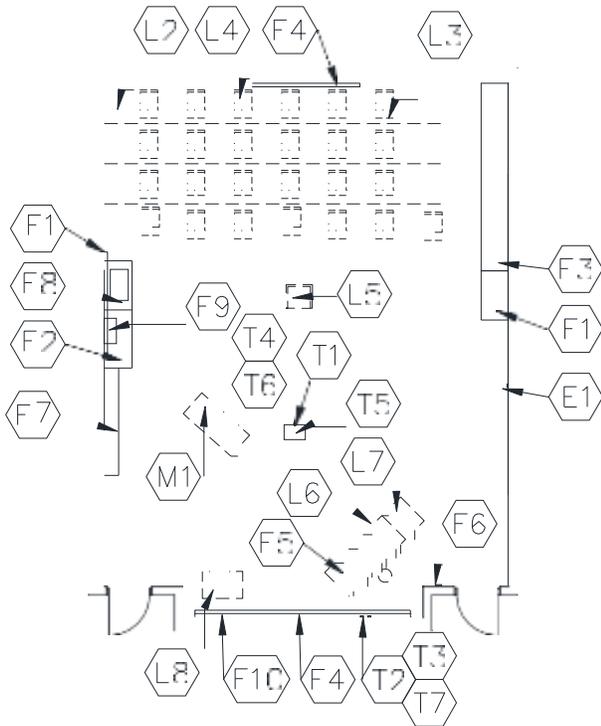
**NOTES:**

This is an example of how the music spaces in an elementary school could be arranged. This is meant only to demonstrate the relationships between various spaces of this area.

Following is the Music space plate:

E-MU-1 Music Room

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CAPACITY: 25 students
 SIZE: 1,200 SF

PROGRAM ACTIVITIES:

- Music students will listen to, analyze, compose, and describe music; sing alone and with others; play instruments; participate in creative movement, dance, and mime; understand music in relation to history and culture, and in relation to the other arts and disciplines in the academic content area.

SPATIAL RELATIONSHIPS:

- Grouped with other noise producing activities
- Near stage

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
 wall minimum STC 60
 ceiling minimum CAC 35, NRC 0.70

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.

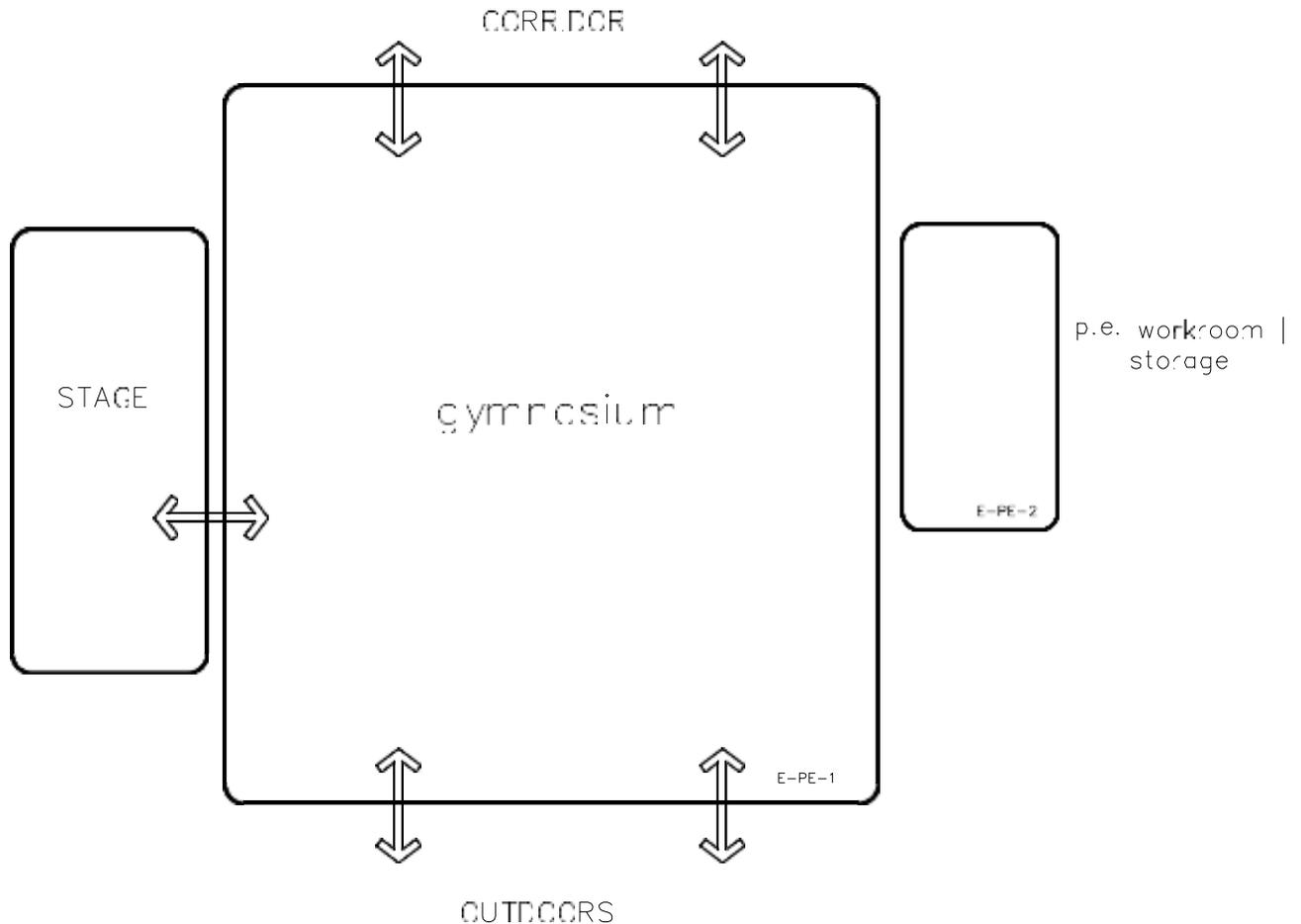
MUSIC ROOM
E-MU-1

CHAPTER 4: ELEMENTARY SCHOOL

| FINISHES ¹ : | Spec. Ref.# | FEATURES ¹ : | Spec. Ref.# |
|--|----------------------------|---|-----------------------------------|
| <u>Flooring:</u> | | <u>Fixed Items:</u> | |
| Carpet, carpet tile | 096816 | F1 Tall wardrobe with file drawers | 123550 |
| Optional: linoleum, ET, sheet vinyl, or rubber | 096500 096516 096813 | F2 Base cabinets | 123550 |
| | | F3 Tall storage cabinets | 123550 |
| | | F4 12'-32' combination marker board, tack board or tackable wall surface | 101100 |
| <u>Base:</u> | | F5 Technology support casework | 123550 |
| Resilient base | 096500 | F6 Pencil sharpener support (optional) | 062000 |
| <u>Ceiling:</u> | | F7 4'-9' of bookcases | 123550 |
| Suspended, acoustical | 095113 | F8 3' sink base cabinet | 123550 |
| <u>Walls:</u> | | F9 Towel dispenser (optional) | 102813 |
| Paint | 099100 | F10 Projection screen (optional) | 115213 |
| Acoustical wall treatment | 098000 | <u>Fire Suppression:</u> | |
| | | Fire suppression system | 211000 |
| | | <u>Plumbing:</u> | |
| | | Sink with drinking fountain | 240000 |
| | | Plumbing connections | 24000/221116/221119 |
| <u>LOOSE FURNISHINGS:</u> | | <u>HVAC:</u> | |
| L1 Reserved | | Supply/return air system | Div. 23 |
| L2 Risers | | Independent temperature control | 230923 |
| L3 Music stands | | <u>Electrical:</u> | |
| L4 Music chairs | | Fluorescent lighting | 265100 |
| L5 Conductor podium | | Illumination level: See Table 8600-5 | |
| L6 Teacher desk and computer workstation support and chair | | Multilevel switching | 262726 |
| L7 File cabinet | | 4 duplex receptacles | 262726 |
| L8 Folding mobile cart for ORFF instruments Wastebasket | | Double duplex receptacle adjacent to each data and video port | 262726 |
| <u>Electronic Safety and Security:</u> | | Emergency lighting | 265100 |
| Life safety devices per code | 283111 | <u>Communications:</u> | |
| <u>Miscellaneous:</u> | | T1 1 projector video port | 271543 |
| Pencil sharpener (optional) | | T2 1 voice port and phone | 271513/273123 |
| The following item is to be funded by the school district: M1 Piano | | T3 1 data port near teacher workstation | 271513 |
| E1 Duplex receptacle with dedicated circuit for wireless devices | | T4 Wireless access point cable above ceiling | 271513 |
| | | Clock | 275313 |
| | | Central sound system | 275123 |
| | | T5 Ultra-short throw interactive projector | 274119 |
| | | T6 Wireless access point (WAP) as determined by Design – refer to Note 3 | 272133 |
| | | T7 Classroom technology center video port | 271543, 274116, 274119, 275127 |

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Items F2 & F3: 16'-20' combination of base, wall, and tall storage cabinets to support music curriculum.
3. Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.



NOTES:

This is an example of how the physical education spaces in an elementary school could be arranged. This is meant only to demonstrate the relationships between various spaces of this area.

Following are the Physical Education space plates:

- E-PE-1 Gymnasium
- E-PE-2 P.E. Workroom/Storage

**PHYSICAL EDUCATION SPACES
E-P E**

CHAPTER 4: ELEMENTARY SCHOOL

GYMNASIUM SIZE

When designing spaces for physical education activities, it is important to consider the type of activities, the number of participants, equipment needed, and space allocation for each space. Consideration should also be given as to the size of the activity area and safety borders (run-outs). Adequate co-funded space for these design considerations, and others, should be provided in the square footage allowed for the gymnasium.

The table included below, illustrates the maximum gymnasium size for each of the student enrollment examples found in the Program of Requirements (POR). For example, a school with 550 students would have approximately 49 staff members indicating a total number of persons in the facility of 599. The maximum size of the gymnasium would be 4,700 sf. That value, 4,700 sf., would be inserted into the POR for the gym size.

Additional student enrollment examples (1,250 and 1,750 students) have been added to assist in planning and design of various sized gymnasiums. These examples are bolded in the table below.

SEATING

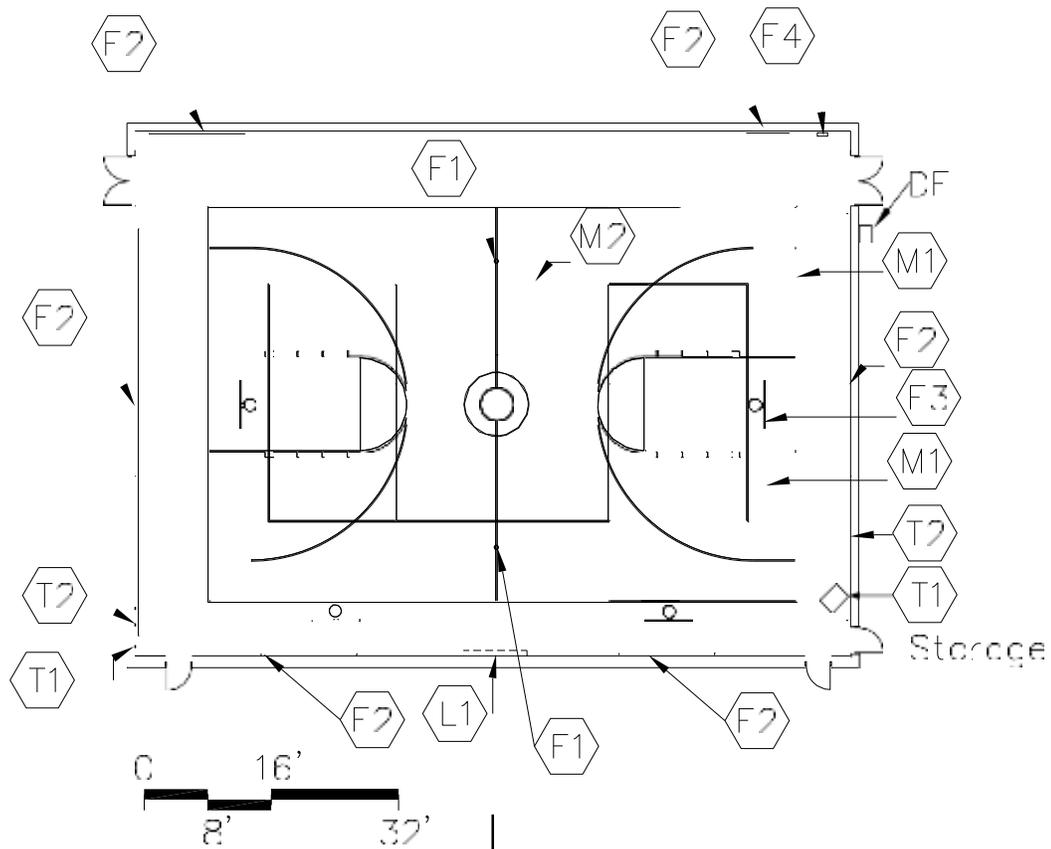
Regarding seating/bleachers, in elementary schools, space for seating in the gym is no co-funded. If desired, seating may be included at the district's expense.

FINAL LAYOUT

The actual Gym layout will be determined during the design process.

| Elementary School Gymnasium Design Guidelines | | | | | |
|--|--------------|--------------------|---------------|-------------------|------------------------|
| STN ENRL | Staff | Total Occup | Gym SF | Court Size | Approx. # Seals |
| 400 | 36 | 436 | 3,500 | As Marked | 0 |
| 550 | 49 | 599 | 4,000 | As Marked | 0 |
| 700 | 62 | 762 | 4,700 | As Marked | 0 |
| 1,000 | 86 | 1,086 | 6,000 | As Marked | 0 |
| 1,250 | 106 | 1,356 | 6,500 | As Marked | 0 |
| 1,500 | 126 | 1,626 | 7,000 | As Marked | 0 |
| 1,750 | 145 | 1,895 | 8,500 | As Marked | 0 |
| 2,000 | 164 | 2,164 | 10,000 | As Marked | 0 |

*Note: *S Gym bleachers are a district expense.*



PROGRAM ACTIVITIES:

- P. E. students will practice and participate in exercise, sports activities, intramural games, and physical fitness.
- Student assemblies
- Community use

SPATIAL RELATIONSHIPS:

- Direct access to outdoors
- Near student dining

ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting
- Environmental sound control - wall minimum STC 60
- Adequate sound control/acoustics
- Clear, **fixed** height of **21'** from floor to nearest obstruction

CAPACITY: varies
 SIZE: 3,500 - 10,000 SF
 ANCILLARY SPACES: P.E. Workroom/Storage
 E-PE-2

NOTES:

**GYMNASIUM
E-PE-1**
CHAPTER 4: ELEMENTARY SCHOOL

| <u>FINISHES</u> ¹ : | Spec. Ref.# | <u>FEATURES</u> ¹ : | Spec. Ref.# |
|---|----------------|--|----------------|
| Flooring: | | <u>Fixed Items:</u> | |
| Sheet vinyl, | 096500 | F1 Volleyball sleeves and standards | |
| resilient athletic flooring, | 096516 | with cart | 116623 |
| rubber, ET, fluid-applied | 096566 | F2 Safety wall wainscot (see note 2) | 116623 |
| athletic flooring, or linoleum | 096766 | F3 Basketball backstops, fiberglass, adjustable height | |
| Base: | | (2 main court, 2 side practice) | 116623 |
| Resilient base | 096566 | F4 Ropes and climbing bars (optional) | 116623 |
| Ceiling: | | <u>Fire Suppression:</u> | |
| Painted exposed structure | 099100 | Fire suppression system | 211000 |
| Walls: | | <u>Plumbing:</u> | |
| Paint | 099100 | Drinking fountain | 224000 |
| Acoustical wall treatment | 098000 | directly outside the entrance | |
| <u>LOOSE FURNISHINGS:</u> | | <u>HVAC:</u> | |
| L1 Portable markerboard | | Supply/return air system | Div. 23 |
| | | Independent temperature control | 230923 |
| | | <u>Electrical:</u> | |
| | | Multi-level switching | 262726 |
| | | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-6 | |
| | | 8 duplex receptacles | 262726 |
| | | Double duplex receptacle adjacent to each data and video port | 262726 |
| | | Means of egress lighting per code | 265100 |
| | | Electrical connections to P.E. equipment where necessary | 262726 |
| | | Emergency lighting | 265100 |
| | | Telecommunications Grounding | 270526/260526 |
| | | <u>Communications:</u> | |
| | | T1 2 projector video ports, 1 monitor with cart | 271543/274119 |
| | | T2 2 data ports | 271513 |
| | | Clock with wire guards | 275313 |
| | | Central sound system | 275123 |
| | | Gymnasium sound system | 275124 |
| <u>Miscellaneous:</u> | | <u>Electronic Safety and Security:</u> | |
| M1 Court markings (optional) | | Life safety devices per code | 283111 |
| 74' x 50' basketball court | | | |
| 30'x60' volleyball court | | | |
| Provide wire guards on light fixtures and wall-mounted electrical devices. | | | |

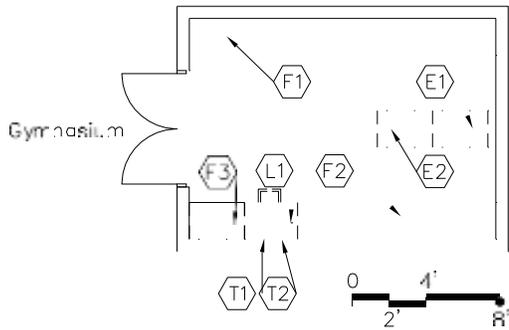
NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Extend safety wall wainscot 5 feet beyond side game lines at both ends of main basketball court.
3. The OFCC does not co-fund telescoping bleachers in elementary schools. District may provide telescoping bleachers in accordance with section 126600 at district's expense.

**P.E. WORKROOM/STORAGE
E-PE-2**

CHAPTER 4: ELEMENTARY SCHOOL

200 SF



PROGRAM ACTIVITIES:

- Storage for P. E. equipment
- Workroom for P. E. teacher

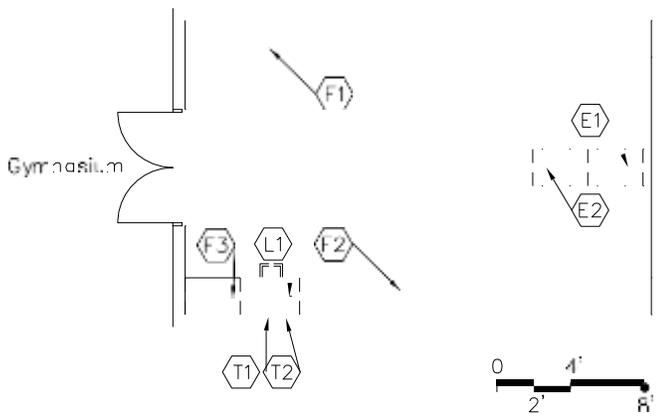
SPATIAL RELATIONSHIPS:

- Adjacent to gymnasium

ENVIRONMENTAL CONSIDERATIONS:

N/A

400 SF



CAPACITY: N/A
 SIZE: 200 - 600 SF
 ANCILLARY SPACES: Gymnasium
 E-PE-1

NOTES:

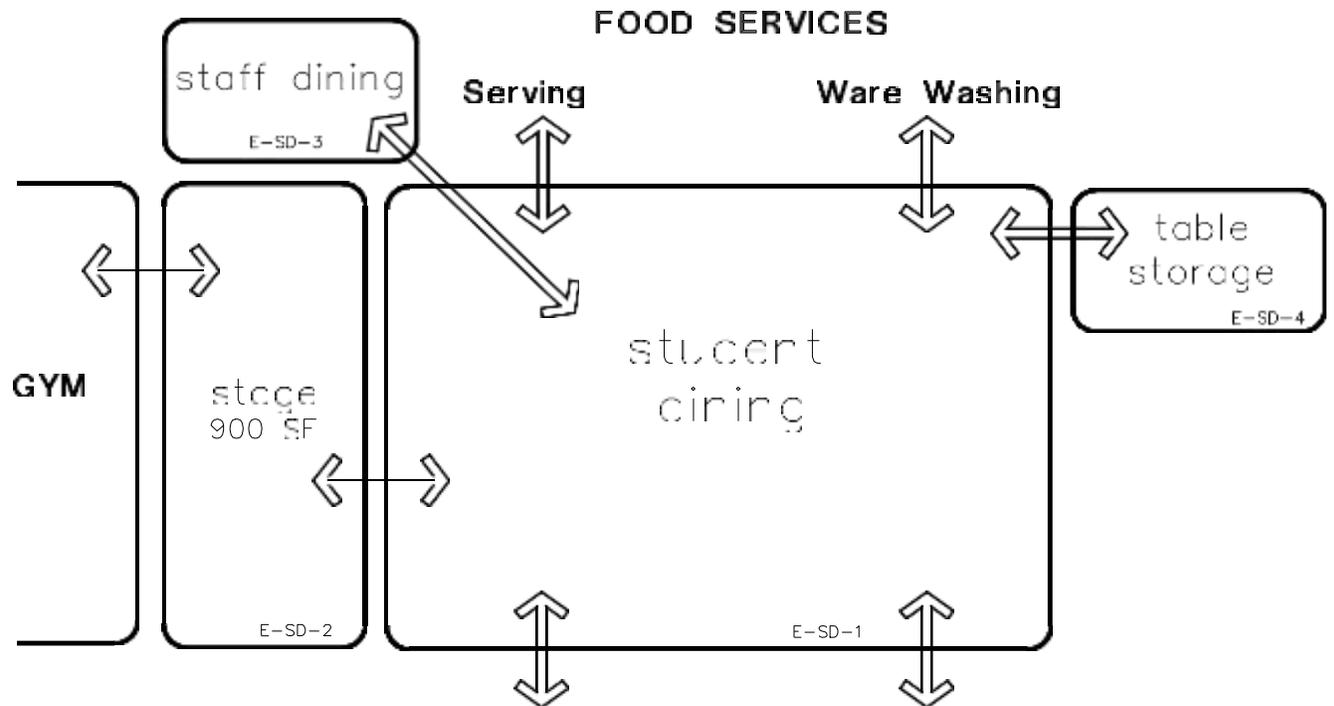
P.E. WORKROOM/STORAGE
E-PE-2

CHAPTER 4: ELEMENTARY SCHOOL

| <u>FINISHES¹:</u> | Spec. Ref.# | <u>FEATURES¹:</u> | Spec. Ref.# |
|----------------------------------|----------------|--|-----------------------|
| Flooring: | | <u>Fixed Items²:</u> | |
| Sealed concrete | 033000 | F1 18' – 30' of open shelving depth may vary (fixed or loose) | 123550 |
| Base: | | F2 16' – 26' of tall storage cabinets | 123550 |
| No base | | Tall wardrobe | 123550 |
| Ceiling: | | <u>Fire Suppression:</u> | |
| Exposed structure | | Fire suppression system | 211000 |
| Option: Rated gypsum wallboard | 092116 | | |
| Walls: | | <u>Plumbing:</u> | |
| Unpainted concrete masonry units | 042000 | N/A | |
| <u>LOOSE FURNISHINGS:</u> | | <u>HVAC:</u> | |
| L1 Teacher desk and chair | | Exhaust air system | Div. 23 |
| Wastebasket | | Supplemental heat as required | Div. 23 |
| <u>EQUIPMENT:</u> | | <u>Electrical:</u> | |
| E1 Tumbling mats on carts | | Single level switching | 262726 |
| E2 Ball carts | | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-6 | |
| | | 1 duplex receptacle | 262726 |
| | | Double duplex receptacle adjacent to data port | 262726 |
| | | <u>Communications:</u> | |
| | | T1 1 voice port and phone | 271513/ 273123 |
| | | T2 1 data port near workstation | 271513 |
| | | Central sound system | 275123 |
| | | Gymnasium sound system | 275124 |
| | | <u>Electronic Safety and Security:</u> | |
| | | N/A | |
| | | <u>Miscellaneous:</u> | |
| | | N/A | |

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Ranges shown indicate quantities for the smallest and largest possible room size.



NOTES:

This is an example of how the student dining spaces in an elementary school could be arranged. This is meant only to demonstrate the relationships between various spaces of this area.

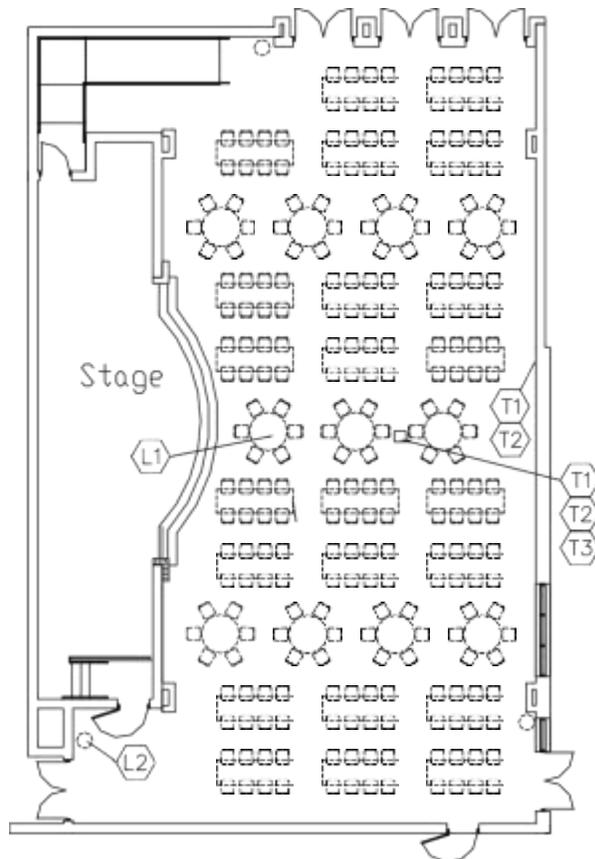
Following are the Student Dining space plates:

- E-SD-1 Student Dining
- E-SD-2 Stage
- E-SD-3 Staff Dining
- E-SD-4 Table Storage
- E-SD-5 Family Restroom**

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STUDENT DINING E-SD-1

CHAPTER 4: ELEMENTARY SCHOOL



PROGRAM ACTIVITIES:

- Space for student dining and assembly-type programs

SPATIAL RELATIONSHIPS:

- Adjacent to kitchen
- Near staff dining
- Adjacent to Stage

ENVIRONMENTAL CONSIDERATIONS:

- Stain-resistant floor covering
- Natural lighting
- Environmental sound control - wall minimum STC **60**

MISCELLANEOUS:

- Based on 3 serving periods, the size of the dining area is computed by dividing the student capacity by 3, then multiplying by 15 SF per student. The minimum size of a dining space is 3,000 SF.

CAPACITY: 1/3 of the student capacity
 SIZE: Student capacity divided by 3,
 multiplied by 15 SF per student
 3,000 SF minimum
 ANCILLARY SPACES: Stage, E-SD-2
 Kitchen, E-FS-1

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.

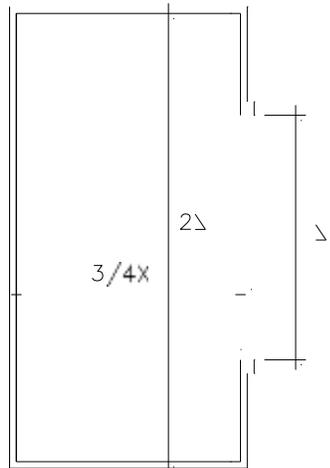
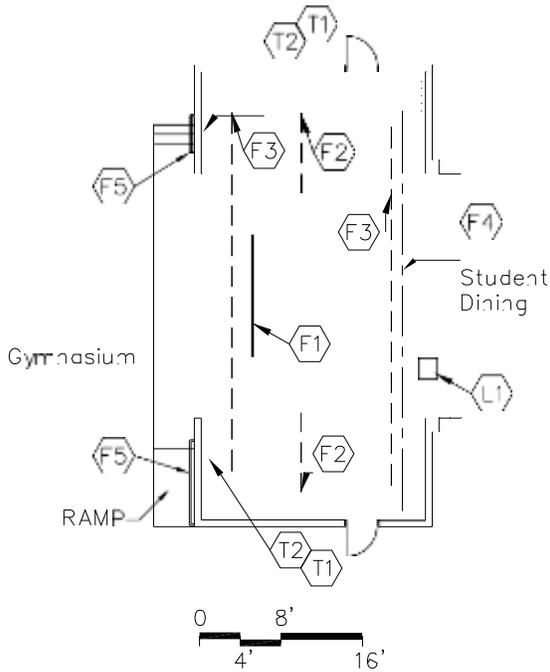
**STUDENT DINING
E-SD-1**

CHAPTER 4: ELEMENTARY SCHOOL

| <u>FINISHES¹:</u> | <u>Spec. Ref.#</u> | <u>FEATURES¹:</u> | <u>Spec. Ref.#</u> |
|---|------------------------|--|------------------------|
| Flooring: | | <u>Fixed Items:</u> | |
| Linoleum, rubber, ET, | 096500 | N/A | |
| sheet vinyl, porcelain tile, | 096516 | | |
| polished concrete finishing, | 033510 | <u>Fire Suppression:</u> | |
| or colored concrete finishing | 033519 | Fire suppression system | 211000 |
| Base: | | <u>Plumbing:</u> | |
| Resilient base | 096500 | Drinking water cooler | 224000 |
| Optional: Porcelain tile base | 093000 | | |
| Ceiling: | | <u>HVAC:</u> | |
| Suspended, acoustical | 095113 | Supply/return air system | Div. 23 |
| | | Independent temperature control | 230923 |
| Walls: | | <u>Electrical:</u> | |
| Painted concrete masonry units | 042000/099100 | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-6 | |
| Acoustical wall treatment | 098000 | Multilevel switching | 262726 |
| and diffusers | | 8 duplex receptacles | 262726 |
| | | Double duplex receptacles adjacent to | |
| | | each data and video port | 262726 |
| <u>LOOSE FURNISHINGS:</u> | | Means of egress lighting per code | 265100 |
| L1 Tables and chairs or long tables with | | Emergency lighting | 265100 |
| attached stools | | Telecommunications Grounding | 270526/260526 |
| L2 Large waste receptacles | | | |
| Folding or high density stack chairs | | <u>Communications:</u> | |
| for large assembly use | | T1 2 projector video ports | 271543 |
| Carts for chairs | | T2 2 data ports | 271513 |
| Recycling bins | | Student dining/cafeteria sound system ² | 275122 |
| | | Clock | 275313 |
| | | Central sound system | 275123 |
| | | T3 Ultra-short throw interactive projector | 274119 |
| Note: Cafeteria tables with attached stools shall | | | |
| be securely anchored to walls when not in use or | | <u>Electronic Safety and Security:</u> | |
| be kept in secure storage area when not in use. | | Life safety devices per code | 283111 |
| | | <u>Miscellaneous:</u> | |
| | | Windows with integral blinds or | 081113/ |
| | | windows with shading devices | 088000 |
| | | (optional) | |

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Student dining sound system is to be used in conjunction with the stage.



ASPECT RATIO OF STAGE

Portions are recommended – not mandatory.

CAPACITY: N/A
 SIZE: x = proscenium opening
 see diagram for dimensions
 ANCILLARY SPACES: Student Dining
 E-SD-1

PROGRAM ACTIVITIES:

- Space for speakers, presentations, and performances

SPATIAL RELATIONSHIPS:

- Adjacent to student dining
- Near staff dining room
- Adjacent to gymnasium

ENVIRONMENTAL CONSIDERATIONS:

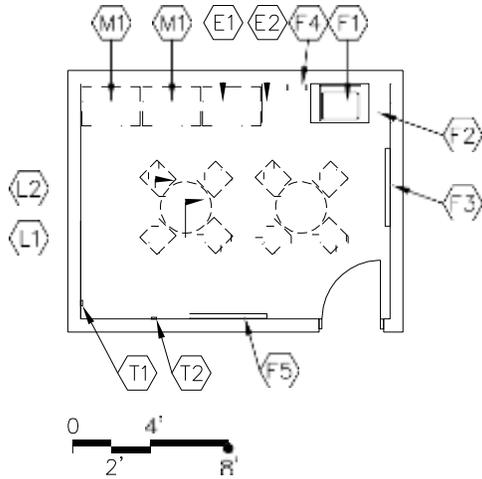
- Uniform lighting
- Resilient floor covering
- Area should be raised slightly above student dining floor
- Provide handicapped accessibility (ADA)

NOTES:

**STAFF DINING
E-SD-3**

CHAPTER 4: ELEMENTARY SCHOOL

200 SF



PROGRAM ACTIVITIES:

- Space for staff dining

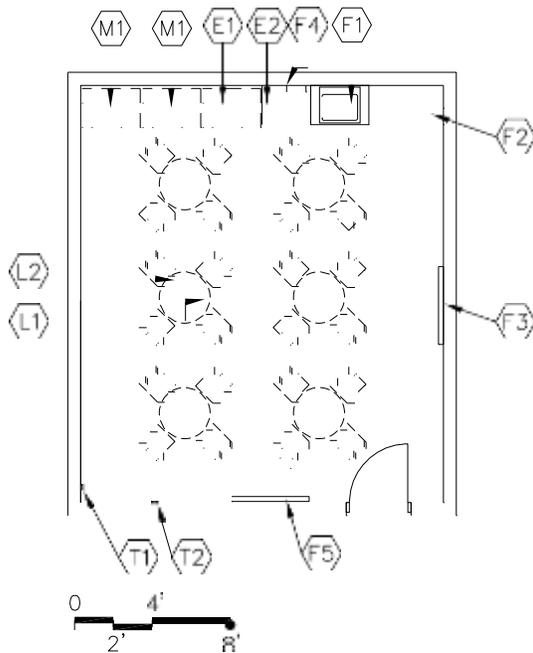
SPATIAL RELATIONSHIPS:

- Near student dining
- Near food services

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
wall minimum STC 60
ceiling minimum CAC 35, NRC 0.70

300 SF



CAPACITY: 8 - 24 staff
SIZE: 200 - **400** SF
ANCILLARY SPACES: Student Dining
 E-SD-1

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.

STAFF DINING
E-SD-3

CHAPTER 4: ELEMENTARY SCHOOL

| <u>FINISHES¹:</u> | Spec. Ref.# | <u>FEATURES¹:</u> | Spec. Ref.# |
|---|----------------------------|--|----------------------|
| Flooring: | | <u>Fixed Items:</u> | |
| ET, linoleum, rubber, sheet vinyl, or porcelain tile | 096500 096516 093000 | F1 3' sink base cabinet with wall cabinets above | 123550 |
| Base: | | F2 About 8' of base and wall cabinets | 123550 |
| Resilient base | 096500 | F3 4' of tack board | 101100 |
| Optional: Porcelain tile base | 093000 | F4 Towel dispenser | 102813 |
| Ceiling: | | F5 4'-6' marker board (optional) | 101100 |
| Suspended, acoustical | 095113 | <u>Fire Suppression:</u> | |
| Walls: | | Fire suppression system | 211000 |
| Painted concrete masonry units | 042000/099100 | <u>Plumbing:</u> | |
| | | Sink | 224000 |
| | | Plumbing connections | 224000/221116/221119 |
| <u>LOOSE FURNISHINGS:</u> | | <u>HVAC:</u> | |
| L1 Tables | | Supply/return air system | Div. 23 |
| L2 Chairs | | Independent temperature control | 230923 |
| Waste receptacle | | <u>Electrical:</u> | |
| <u>EQUIPMENT:</u> | | Single level switching | 262726 |
| E1 Refrigerator | | Fluorescent lighting | 265100 |
| E2 Microwave | | Illumination level: See Table 8600-6 | |
| | | 4 duplex receptacles | 262726 |
| | | Double duplex receptacle adjacent to each video port | 262726 |
| | | Receptacles for vending machines, refrigerator, and microwave | 262726 |
| | | <u>Communications:</u> | |
| | | T1 1 projector video port | 271543 |
| | | T2 1 voice port and phone | 271513/273123 |
| | | Clock | 275313 |
| | | Central sound system | 275123 |
| | | <u>Electronic Safety and Security:</u> | |
| | | Life safety devices per code | 283111 |
| | | <u>Miscellaneous:</u> | |
| | | The following items are to be funded by the school district: | |
| | | M1 Vending machines | |

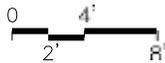
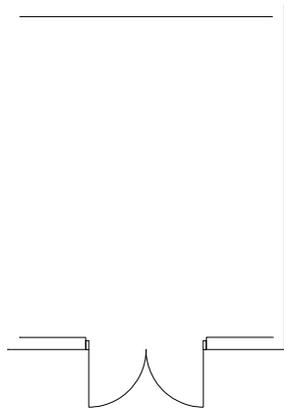
NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.

**TABLE STORAGE
E-SD-4**

CHAPTER 4: ELEMENTARY SCHOOL

200 SF



PROGRAM ACTIVITIES:

- Storage for tables and chairs

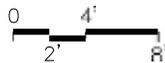
SPATIAL RELATIONSHIPS:

- Adjacent to student dining
- Near food services

ENVIRONMENTAL CONSIDERATIONS:

- Resilient floor covering

300 SF



CAPACITY: N/A
 SIZE: 200 - 300 SF
 ANCILLARY SPACES: Student Dining
 E-SD-1

NOTES:

**TABLE STORAGE
E-SD-4**

CHAPTER 4: ELEMENTARY SCHOOL

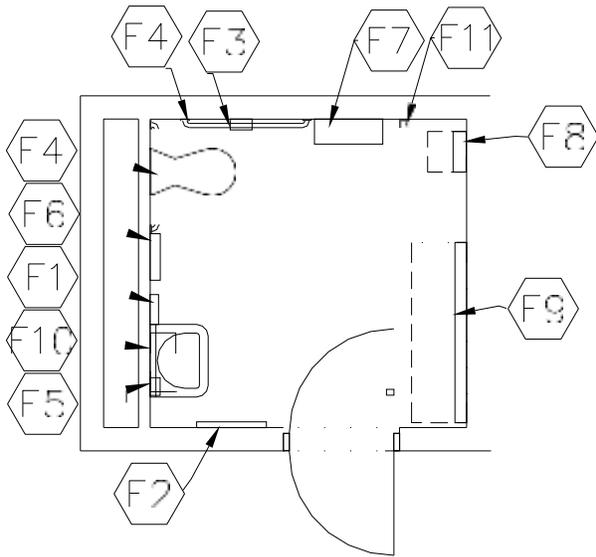
| <u>FINISHES¹:</u> | <u>Spec. Ref.#</u> | <u>FEATURES¹:</u> | <u>Spec. Ref.#</u> |
|----------------------------------|------------------------|--|------------------------|
| Flooring: | | <u>Fixed Items:</u> | |
| Sealed concrete | 033000 | N/A | |
| Base: | | <u>Fire Suppression:</u> | |
| No base | | Fire suppression system | 211000 |
| Ceiling: | | <u>Plumbing:</u> | |
| Exposed structure | | N/A | |
| Option: Rated gypsum wallboard | 092116 | <u>HVAC:</u> | |
| Walls: | | Exhaust air system | Div. 23 |
| Unpainted concrete masonry units | 042000 | Supplemental heat as required | Div. 23 |
| <u>LOOSE FURNISHINGS:</u> | | <u>Electrical:</u> | |
| N/A | | Single level switching | 262726 |
| | | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-6 | |
| | | 1 duplex receptacle | 262726 |
| | | <u>Communications:</u> | |
| | | N/A | |
| | | <u>Electronic Safety and Security:</u> | |
| | | N/A | |
| | | <u>Miscellaneous:</u> | |
| | | N/A | |

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.

FAMILY RESTROOM
E-SD-5

CHAPTER 4: ELEMENTARY SCHOOL



PROGRAM ACTIVITIES:

- Personal, health, and handicap needs for all building occupants

SPATIAL RELATIONSHIPS:

- Located where best accessible to all building occupants and the public

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
wall minimum STC 48
ceiling minimum CAC 35, NRC 0.70
- Moisture- and stain-resistant finishes

CAPACITY: 2 people
SIZE: 80 SF

NOTES:

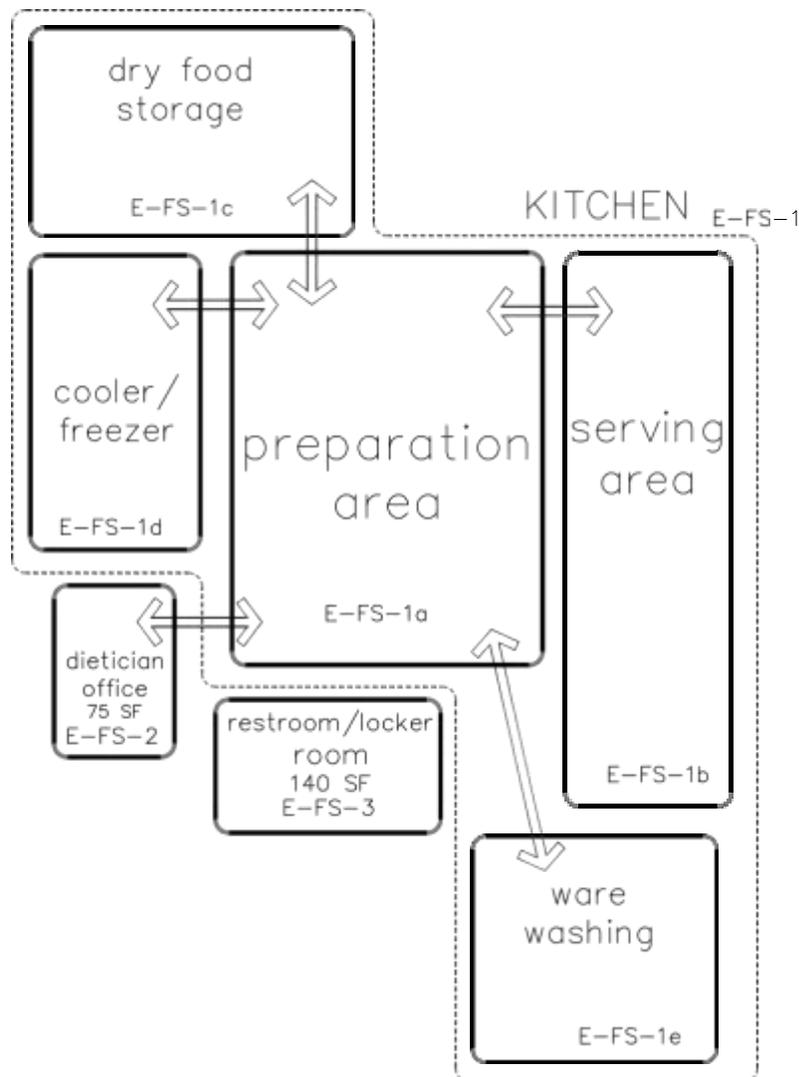
**FAMILY RESTROOM
E-SD-5**

CHAPTER 4: ELEMENTARY SCHOOL

| <u>FINISHES¹:</u> | Spec. Ref.# | <u>FEATURES¹:</u> | Spec. Ref.# |
|---------------------------------------|----------------|--|----------------------|
| <u>Flooring:</u> | | <u>Fixed Items:</u> | |
| ET, sheet vinyl, | 093000 | F1 Towel dispenser | 102813 |
| or ceramic mosaic tile | 096500 | F2 24" x 60" mirror | 102813 |
| Optional: Ceramic mosaic tile, | 093000 | F3 Toilet tissue holder | 102813 |
| porcelain tile, or | 096723 | F4 36" and 42" grab bar | 102813 |
| resinous flooring | | F5 Soap dispenser | 102813 |
| | | F6 Sanitary napkin dispenser/disposal | 102813 |
| <u>Base:</u> | | F7 Folding utility shelf | 102813 |
| Resilient base | 096500 | F8 Mounted child seat | 102813 |
| Optional: Ceramic mosaic tile, | 093000 | F9 Adult/child changing station | 102813 |
| porcelain tile, resinous flooring | 096723 | F10 16" x 24" mirror with shelf | 102813 |
| flooring, or integral vinyl cove base | | F11 Coat hooks | 102813 |
| | | <u>Fire Suppression:</u> | |
| <u>Ceiling:</u> | | Fire suppression system | 211000 |
| Suspended, acoustical | 095113 | | |
| | | <u>Plumbing:</u> | |
| <u>Walls:</u> | | Wall-mounted water closet | 224000 |
| Painted concrete masonry units | 042000/099100 | Wall-mounted lavatory | 224000 |
| | | Plumbing connections | 224000/221116/221119 |
| <u>LOOSE FURNISHINGS:</u> | | <u>HVAC:</u> | |
| Wastebasket | | Exhaust air system | Div. 23 |
| | | Supplemental heat as required | Div. 23 |
| | | <u>Electrical:</u> | |
| | | Single level switching | 262726 |
| | | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-5 | |
| | | 1 duplex receptacle | 262726 |
| | | <u>Communications:</u> | |
| | | Central sound system | 275123 |
| | | <u>Electronic Safety and Security:</u> | |
| | | Life safety devices per code | 283111 |
| | | <u>Miscellaneous:</u> | |
| | | N/A | |

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.

**NOTES:**

This is an example of how the food service spaces in an elementary school could be arranged. This is meant only to demonstrate the relationships between various spaces of this area.

Following are the Food Service space plates:

| | |
|---------|-----------------------------|
| E-FS-0 | Warming Kitchen |
| E-FS-1 | Kitchen |
| E-FS-1a | Preparation Area |
| E-FS-1b | Serving Area |
| E-FS-1c | Dry Food Storage |
| E-FS-1d | Cooler/Freezer |
| E-FS-1e | Ware Washing |
| E-FS-2 | Dietician Office |
| E-FS-3 | Restroom/Locker Room |

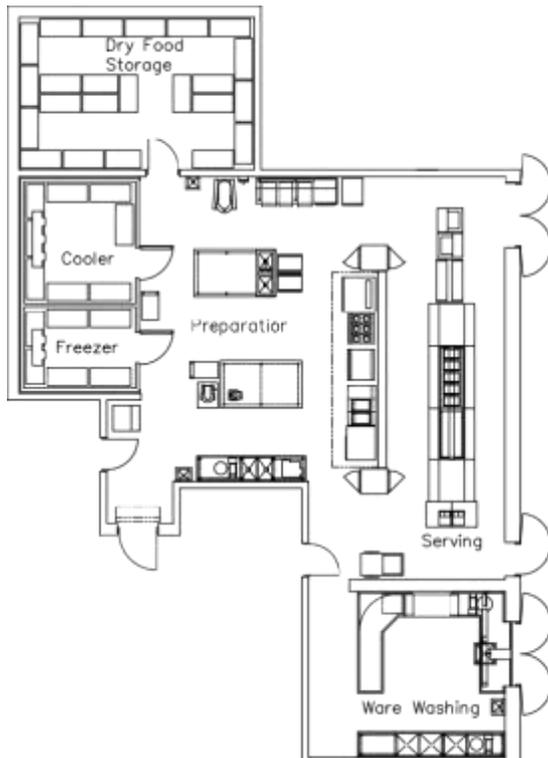
KITCHEN E-FS-1

CHAPTER 4: ELEMENTARY SCHOOL

This space consists of various areas:

Preparation Area
Serving Area
Dry Food Storage
Cooler/Freezer
Ware Washing

A space plate follows for each of these areas.



CAPACITY: 3 – 10 persons

SIZE: Student capacity multiplied by 3.5 SF
per student

ANCILLARY SPACES: Student Dining
E-SD-1
Loading/Receiving Area
E-BS-9

PROGRAM ACTIVITIES:

- Space for the planning, ordering, preparation, and serving of the meals, and for providing meals for the students and staff

SPATIAL RELATIONSHIPS:

- Adjacent to student dining
- Near staff dining
- Near table storage
- Adjacent to loading/receiving area

ENVIRONMENTAL CONSIDERATIONS:

- Compliance with State Board of Health requirements

MISCELLANEOUS:

- The sizing of the kitchen area assumes:
Type "A" meal service only at 80% of the student capacity and 3, 30-minute serving periods.

NOTES:

This kitchen layout is to be used only for a central kitchen operation.

**WARMING KITCHEN
E-FS-0**

CHAPTER 4: ELEMENTARY SCHOOL

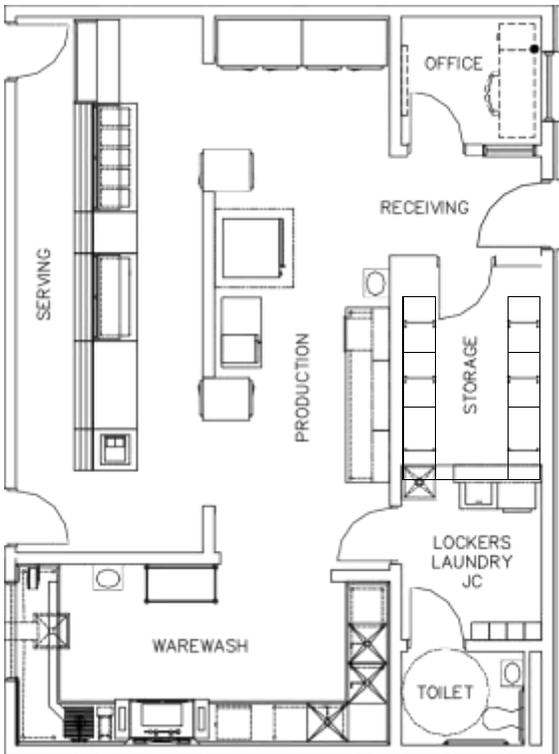
This space consists of various areas:

| | |
|-----------------|-----|
| Production Area | 25% |
| Serving Area | 35% |
| Warewash | 25% |
| Storage | 10% |

| | |
|-----------|----|
| Receiving | 5% |
|-----------|----|

Additional areas to be added:

| | |
|-----------------------------------|--------|
| Office | 75 SF |
| Toilet | 50 SF |
| Lockers/Laundry/Janitorial Closet | 125 SF |



PROGRAM ACTIVITIES:

- Space for receiving, organizing, and serving of the meals prepared in the central kitchen.

SPATIAL RELATIONSHIPS:

- Adjacent to student dining
- Near staff dining
- Near table storage
- Adjacent to loading/receiving area

ENVIRONMENTAL CONSIDERATIONS:

- Compliance with State Board of Health requirements

MISCELLANEOUS:

- Kitchen area must be located adjacent to exterior loading dock area to receive transported food from central kitchen.

CAPACITY: 3 - 7 persons

SIZE: Student capacity multiplied by 2.0 SF per student

ANCILLARY SPACES: Student Dining E-SD-1
Loading/Receiving Area E-BS-1

NOTES:

**WARMING KITCHEN
E-FS-0**

CHAPTER 4: ELEMENTARY SCHOOL

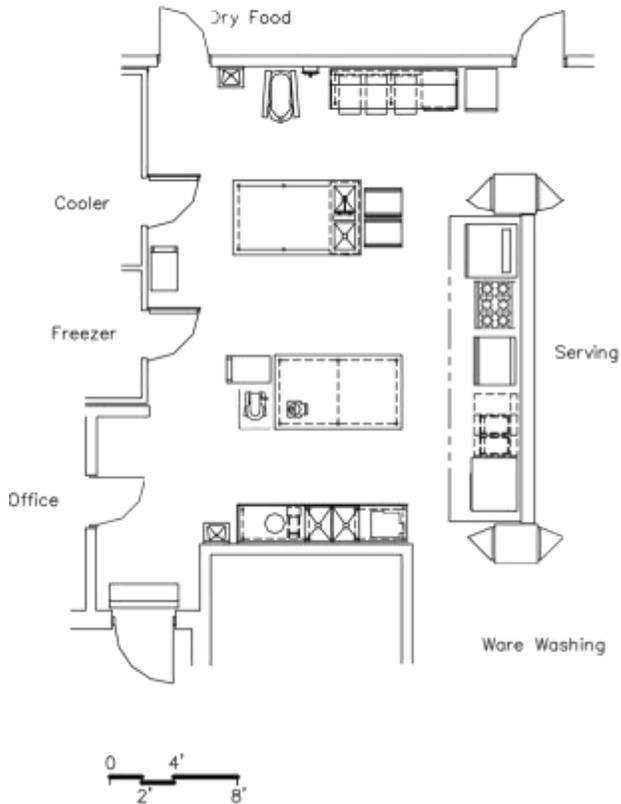
| <u>FINISHES¹:</u> | Spec. Ref.# | <u>FEATURES¹:</u> | Spec. Ref.# |
|--|-------------------------|--|-------------------------|
| Flooring: | | <u>Fixed Items:</u> | |
| Quarry tile, resinous flooring | 093000 096723 | Food service equipment | 114000 |
| Base: | | <u>Fire Suppression:</u> | |
| Quarry tile base, integral base | 093000 | Fire suppression system | 211000 |
| Ceiling: | | <u>Plumbing:</u> | |
| Cleanable, suspended, acoustical | 095113 | Connections to food service eqpt. | 224000 |
| Walls: | | Plumbing connections | 224000 |
| Epoxy-painted concrete masonry units | 042000/099100 | Gas connections | 226313 |
| Option: Ceramic wall tile | 093000 | Hand washing lavatory | 224000 |
| or latex paint | 099100 | <u>HVAC:</u> | |
| <u>LOOSE FURNISHINGS:</u> | | Supply/return air system | Div. 23 |
| N/A | | Independent temperature control | 230923 |
| | | Kitchen canopy exhaust system | Div. 23 |
| | | <u>Electrical:</u> | |
| | | Dual level switching | 262726 |
| | | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-6 | |
| | | 10 duplex receptacles | 262726 |
| | | Duplex receptacle at | 262726 |
| | | each cash register | |
| | | Emergency lighting | 265100 |
| | | Connections to food service eqpt. | 262726 |
| | | Means of egress lighting per code | 265100 |
| | | <u>Communications:</u> | |
| | | 1 voice port and phone | 271513/ 273123 1 |
| | | data port at cash register(s) | 271513 |
| | | Clock | 275313 |
| | | Central sound system | 275123 |
| | | <u>Electronic Safety and Security:</u> | |
| | | Life safety devices per code | 283111 |
| | | <u>Miscellaneous:</u> | |
| | | N/A | |

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references and refer to Chapter 10 for a list of possible food service equipment.

KITCHEN - Preparation Area E-FS-1a

CHAPTER 4: ELEMENTARY SCHOOL



CAPACITY: 3 – 10 persons
SIZE: Based on 36% of the kitchen area
ANCILLARY SPACES: Part of the kitchen

PROGRAM ACTIVITIES:

- Space and equipment for the preparation of food for students and staff

SPATIAL RELATIONSHIPS:

- Adjacent to the serving area
- Near the cooler/freezer
- Near the dry food storage

ENVIRONMENTAL CONSIDERATIONS:

- Proper ventilation of space to remove cooking odors
- Cleanable building surfaces

NOTES:

1. This is an example of a preparation area. Food service equipment will vary from school district to school district.

**KITCHEN - Preparation Area
E-FS-1a**

CHAPTER 4: ELEMENTARY SCHOOL

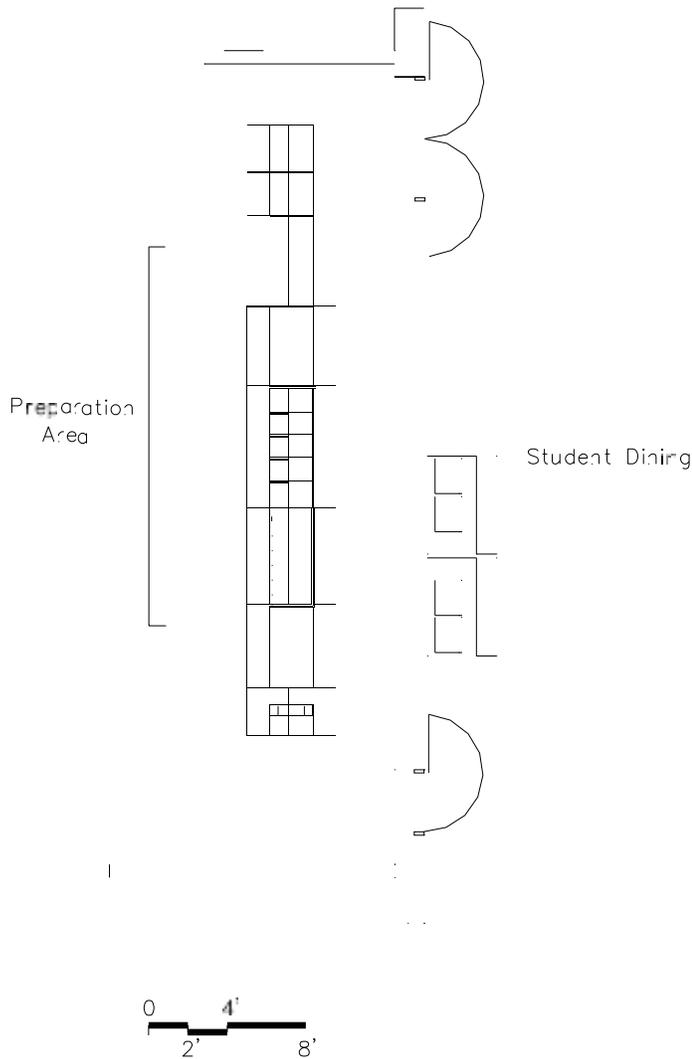
| <u>FINISHES¹:</u> | Spec. Ref.# | <u>FEATURES¹:</u> | Spec. Ref.# |
|--|-------------------------|--|-----------------------|
| Flooring: | | <u>Fixed Items:</u> | |
| Quarry tile or resinous flooring | 093000 096723 | Food service equipment | 114000 |
| Base: | | <u>Fire Suppression:</u> | |
| Quarry tile base or integral base | 093000 | Fire suppression system | 211000 |
| Ceiling: | | <u>Plumbing:</u> | |
| Cleanable, suspended, acoustical | 095113 | Connections to food service equipment | 224000 |
| Walls: | | Plumbing connections | 224000 |
| Epoxy-painted concrete masonry units | 042000/099100 | Gas connections | 226313 |
| Option: Ceramic wall tile | 093000 | Hand washing lavatory | 224000 |
| or latex paint | 099100 | <u>HVAC:</u> | |
| <u>LOOSE FURNISHINGS:</u> | | Supply/return air system | Div. 23 |
| N/A | | Independent temperature control | 230923 |
| | | Kitchen canopy exhaust system | Div. 23 |
| | | <u>Electrical:</u> | |
| | | Dual level switching | 262726 |
| | | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-6 | |
| | | 4 duplex receptacles | 262726 |
| | | Emergency lighting | 265100 |
| | | Connections to food service equipment | 262726 |
| | | Means of egress lighting per code | 265100 |
| | | <u>Communications:</u> | |
| | | 1 voice port and phone | 271513/ 273123 |
| | | Clock | 275313 |
| | | Central sound system | 275123 |
| | | <u>Electronic Safety and Security:</u> | |
| | | Life safety devices per code | 283111 |
| | | <u>Miscellaneous:</u> | |
| | | N/A | |

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references and refer to Chapter 10 for a list of possible food service equipment.

**KITCHEN - Serving Area
E-FS-1b**

CHAPTER 4: ELEMENTARY SCHOOL



PROGRAM ACTIVITIES:

- Space for serving of food

SPATIAL RELATIONSHIPS:

- Adjacent to student dining
- Adjacent to preparation area

ENVIRONMENTAL CONSIDERATIONS:

- Cleanable building services

CAPACITY: N/A
SIZE: Based on 34% of the kitchen area
ANCILLARY SPACES: Part of the kitchen

NOTES:

1. This is an example of a serving area. Food service equipment will vary from school district to school district.

**KITCHEN - Serving Area
E-FS-1b**

CHAPTER 4: ELEMENTARY SCHOOL

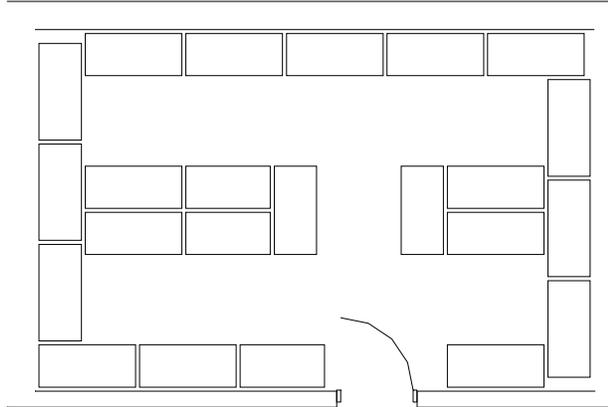
| <u>FINISHES¹:</u> | Spec. Ref.# | <u>FEATURES¹:</u> | Spec. Ref.# |
|--|----------------|---|-----------------------|
| Flooring: | | <u>Fixed Items:</u> | |
| Quarry tile or resinous flooring | 093000 | Food service equipment | 114000 |
| Optional: porcelain tile | 096723 | | |
| Base: | | <u>Fire Suppression:</u> | |
| Quarry tile base or integral base | 093000 | Fire suppression system | 211000 |
| Optional: porcelain tile base | | | |
| Ceiling: | | <u>Plumbing:</u> | |
| Cleanable, suspended, acoustical | 095113 | Connections to food service equipment | 224000 |
| Walls: | | <u>HVAC:</u> | |
| Epoxy-painted concrete masonry units | 042000/099100 | Supply/return air system | Div. 23 |
| Option: Ceramic wall tile | 093000 | <u>Electrical:</u> | |
| or latex paint | 099100 | Dual level switching | 262726 |
| | | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-6 | |
| <u>LOOSE FURNISHINGS:</u> | | 4 duplex receptacles | 262726 |
| N/A | | Connections to food service equipment | 262726 |
| | | Emergency lighting | 265100 |
| | | Means of egress lighting per code | 265100 |
| | | Duplex receptacle at each cash register | 262726 |
| | | <u>Communications:</u> | |
| | | Data port(s) at cash register(s) | 271513 |
| | | Clock | 275313 |
| | | Central sound system | 275123 |
| | | 1 Voice port and phone | 271513/ 273123 |
| | | <u>Electronic Safety and Security:</u> | |
| | | Life safety devices per code | 283111 |
| | | <u>Miscellaneous:</u> | |
| | | N/A | |

NOTES:

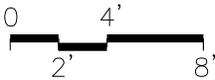
1. Finishes/Features: Refer to Chapter 9 for specification references and refer to Chapter 10 for a list of possible food service equipment.

**KITCHEN - Dry Food Storage
E-FS-1c**

CHAPTER 4: ELEMENTARY SCHOOL



Preparation Area



PROGRAM ACTIVITIES:

- Lockable space to store dry food products and government commodities for 15 to 30 days

SPATIAL RELATIONSHIPS:

- Near the food preparation area
- Access to the loading/receiving area

ENVIRONMENTAL CONSIDERATIONS:

- Continuous conditioning of air
- Cleanable building surfaces

CAPACITY: N/A
SIZE: Based on 11% of the kitchen area
ANCILLARY SPACES: Part of the kitchen

NOTES:

1. This is an example of a dry food storage area. Food service equipment will vary from school district to school district.

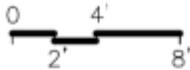
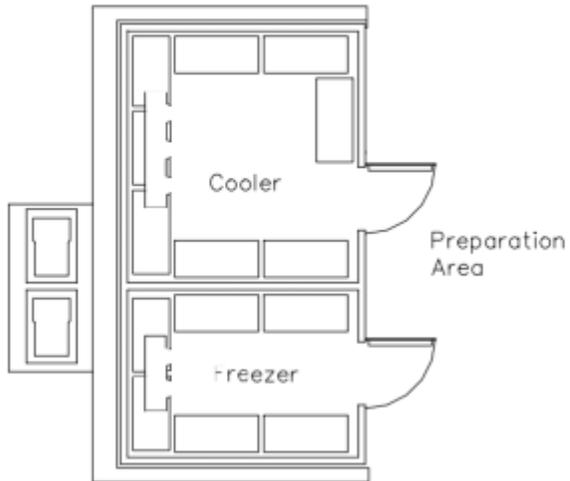
**KITCHEN - Dry Food Storage
E-FS-1c**

CHAPTER 4: ELEMENTARY SCHOOL

| <u>FINISHES¹:</u> | Spec. Ref.# | <u>FEATURES¹:</u> | Spec. Ref.# |
|---|----------------|--|----------------|
| Flooring: | | <u>Fixed Items:</u> | |
| Linoleum, ET, or sheet vinyl | 096500 | Food service equipment | 114000 |
| | 096516 | | |
| Option: Quarry tile or resinous flooring | 093000 | <u>Fire Suppression:</u> | |
| | 096723 | Fire suppression system | 211000 |
| Base: | | <u>Plumbing:</u> | |
| Resilient base | 096500 | N/A | |
| Option: Quarry tile or integral base | 093000 | | |
| Ceiling: | | <u>HVAC:</u> | |
| Cleanable, suspended, acoustical | 095113 | Exhaust air system | Div. 23 |
| | | Supply/return air system | Div. 23 |
| Walls: | | <u>Electrical:</u> | |
| Epoxy-painted concrete masonry units | 042000/099100 | Single level switching | 262726 |
| | | Fluorescent lighting | 265100 |
| Option: Ceramic wall tile or latex paint | 093000 | Illumination level: See Table 8600-6 | |
| | 099100 | 1 duplex receptacle | 262726 |
| <u>LOOSE FURNISHINGS:</u> | | <u>Communications:</u> | |
| N/A | | N/A | |
| | | <u>Electronic Safety and Security:</u> | |
| | | Life safety devices per code | 283111 |
| | | <u>Miscellaneous:</u> | |
| | | N/A | |

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references and refer to Chapter 10 for a list of possible food service equipment.

**KITCHEN - Cooler/Freezer
E-FS-1d**
CHAPTER 4: ELEMENTARY SCHOOL


CAPACITY: N/A
 SIZE: Based on 10% of the kitchen area
 ANCILLARY SPACES: Part of the Kitchen

PROGRAM ACTIVITIES:

- Space for refrigerated storage of perishable products

SPATIAL RELATIONSHIPS:

- Adjacent to food preparation area
- Access to the loading/receiving area

ENVIRONMENTAL CONSIDERATIONS:

- Ventilation for refrigeration machinery
- Cleanable building surfaces
- Floor to be flush with adjacent kitchen floor

NOTES:

1. This is an example of a cooler/freezer. Food service equipment will vary from school district to school district.

**KITCHEN - Cooler/Freezer
E-FS-1d**

CHAPTER 4: ELEMENTARY SCHOOL

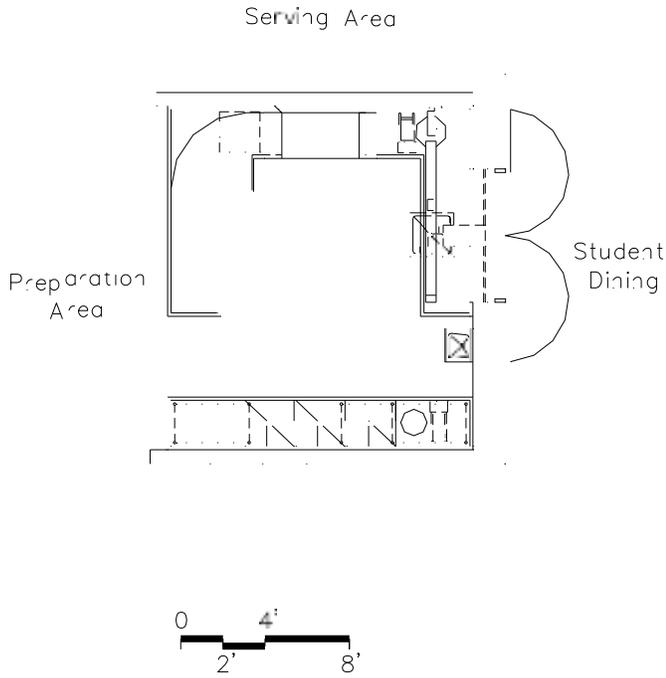
| <u>FINISHES¹:</u> | Spec. Ref.# | <u>FEATURES¹:</u> | Spec. Ref.# |
|-----------------------------------|----------------|--|----------------|
| Flooring: | | <u>Fixed Items:</u> | |
| Quarry tile or resinous flooring | 093000 | Food service equipment | 114000 |
| | 096723 | | |
| Base: | | <u>Fire Suppression:</u> | |
| Quarry tile base or integral base | 093000 | Fire suppression system | 211000 |
| Ceiling: | | <u>Plumbing:</u> | |
| Manufactured insulated panel | 114000 | N/A | |
| Walls: | | <u>HVAC:</u> | |
| Manufactured insulated panel | 114000 | Exhaust air system for compressors Div. 23 | |
| <u>LOOSE FURNISHINGS:</u> | | <u>Electrical:</u> | |
| N/A | | Single level switching | 262726 |
| | | Fluorescent or LED lighting | 265100 |
| | | Illumination level: See Table 8600-6 | |
| | | Electrical connections to freezer/cooler | |
| | | refrigeration equipment | 262726 |
| | | <u>Communications:</u> | |
| | | N/A | |
| | | <u>Electronic Safety and Security:</u> | |
| | | N/A | |
| | | <u>Miscellaneous:</u> | |
| | | N/A | |

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references and refer to Chapter 10 for a list of possible food service equipment.

**KITCHEN - Ware Washing
E-FS-1e**

CHAPTER 4: ELEMENTARY SCHOOL



PROGRAM ACTIVITIES:

- Space and equipment to scrape, wash, air dry, and store serving trays and utensils

SPATIAL RELATIONSHIPS:

- Adjacent to student dining

ENVIRONMENTAL CONSIDERATIONS:

- Proper ventilation of space to remove steam and condensation
- Cleanable building surfaces

CAPACITY: N/A
 SIZE: Based on 9% of the kitchen area
 ANCILLARY SPACES: Part of the kitchen

NOTES:

1. This is an example of a ware washing area. Food service equipment will vary from school district to school district.

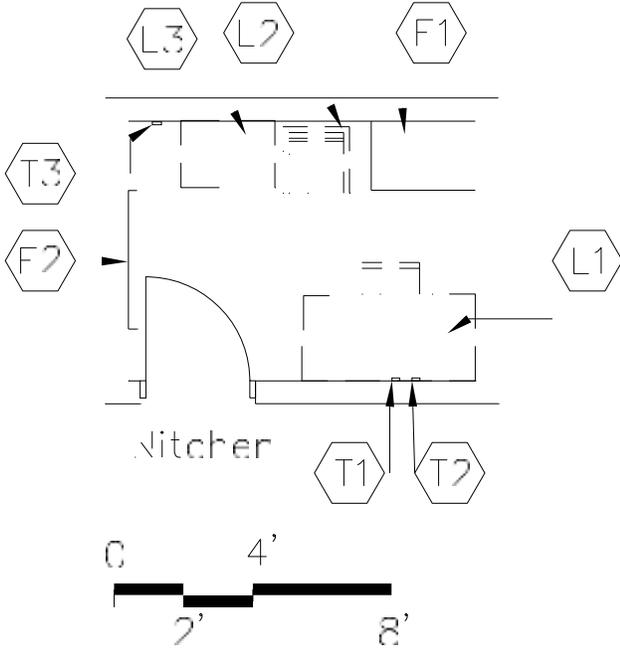
**KITCHEN - Ware Washing
E-FS-1e**

CHAPTER 4: ELEMENTARY SCHOOL

| <u>FINISHES¹:</u> | Spec. Ref.# | <u>FEATURES¹:</u> | Spec. Ref.# |
|--|-------------------------|--|----------------|
| Flooring: | | <u>Fixed Items:</u> | |
| Quarry tile or resinous flooring | 093000 096723 | Food service equipment | 114000 |
| Base: | | <u>Fire Suppression:</u> | |
| Quarry tile base or integral base | 093000 | Fire suppression system | 211000 |
| Ceiling: | | <u>Plumbing:</u> | |
| Cleanable, suspended, acoustical | 095113 | Lavatory | 224000 |
| Walls: | | Connections to food service equipment | 224000 |
| Epoxy-painted concrete masonry units | 042000/099100 | <u>HVAC:</u> | |
| Option: Ceramic wall tile | 093000 | Supply/return air system | Div. 23 |
| or latex paint | 099100 | Independent temperature control | 230923 |
| | | Exhaust hood system | Div. 23 |
| <u>LOOSE FURNISHINGS:</u> | | <u>Electrical:</u> | |
| N/A | | Dual level switching | 262726 |
| | | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-6 | |
| | | 1 duplex receptacle | 262726 |
| | | Connections to food service equipment | 262726 |
| | | <u>Communications:</u> | |
| | | Central sound system | 275123 |
| | | <u>Electronic Safety and Security:</u> | |
| | | Life safety devices per code | 283111 |
| | | <u>Miscellaneous:</u> | |
| | | N/A | |

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references and refer to Chapter 10 for a list of possible food service equipment.



PROGRAM ACTIVITIES:

- Space for the dietician to plan menus and meet with various vendors

SPATIAL RELATIONSHIPS:

- Adjacent to kitchen

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
wall minimum **STC 45**
ceiling minimum **CAC 35, NRC 0.70**
- **Optional – window with integral blind**

CAPACITY: 1 - 2 persons
 SIZE: 75 SF
 ANCILLARY SPACES: Kitchen
 E-FS-1

NOTES:

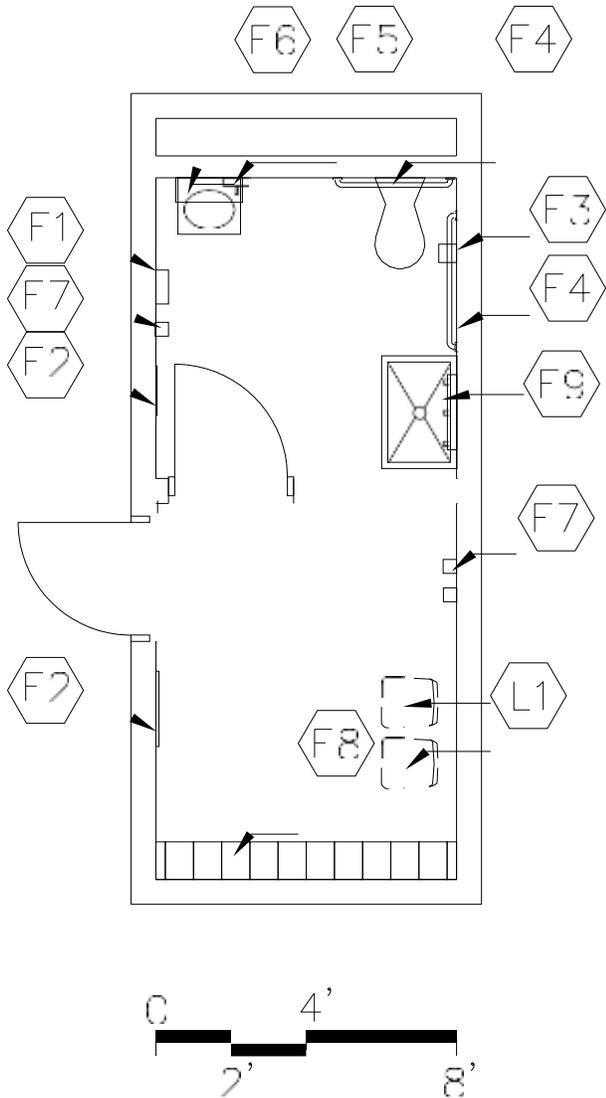
1. Loose furnishings shown represent one of many possible arrangements.

**DIETICIAN'S OFFICE
E-FS-2**
CHAPTER 4: ELEMENTARY SCHOOL

| <u>FINISHES¹:</u> | Spec. Ref.# | <u>FEATURES¹:</u> | Spec. Ref.# |
|--|----------------|--|----------------|
| <u>Flooring:</u> | | | |
| Linoleum, ET, or sheet vinyl | 096500 | <u>Fixed Items:</u> | |
| | 096516 | F1 Tall wardrobe (optional) | 123550 |
| Option: Quarry tile or resinous flooring | 093000 | F2 4' of tack board | 101100 |
| | 096723 | <u>Fire Suppression:</u> | |
| | | Fire suppression system | 211000 |
| <u>Base:</u> | | | |
| Resilient base | 096500 | <u>Plumbing:</u> | |
| Option: Quarry tile | 093000 | N/A | |
| <u>Ceiling:</u> | | | |
| Suspended, acoustical | 095113 | <u>HVAC:</u> | |
| | | Supply/return air system | Div. 23 |
| | | Independent temperature control (coupled with similarly loaded adjacent spaces) | 230923 |
| <u>Walls:</u> | | | |
| Painted concrete masonry units | 042000/099100 | <u>Electrical:</u> | |
| | | Single level switching | 262726 |
| | | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-6 | |
| | | 4 duplex receptacles | 262726 |
| | | Double duplex receptacle adjacent to data and video port | 262726 |
| <u>LOOSE FURNISHINGS:</u> | | | |
| L1 Desk and chair | | <u>Communications:</u> | |
| L2 Visitor chair | | T1 1 voice port and phone | 271513/273123 |
| L3 File cabinet | | 1 data port near workstation | 271513 |
| Wastebasket | | T3 1 projector video port | 271543 |
| | | Central sound system | 275123 |
| | | Clock | 275313 |
| <u>Electronic Safety and Security:</u> | | | |
| | | Life safety devices per code | 283111 |
| <u>Miscellaneous:</u> | | | |
| | | Interior window (optional) | 081113 /088000 |

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Fixed equipment or loose furnishings can either be all fixed or all loose.



CAPACITY: 2 persons
 SIZE: 140 SF
 ANCILLARY SPACES:

PROGRAM ACTIVITIES:

- Personal and health needs for food service staff

SPATIAL RELATIONSHIPS:

- Adjacent to **kitchen**

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
 wall minimum STC 48
 ceiling minimum CAC 35, NRC 0.70
- Moisture- and stain-resistant finishes

NOTES:

**RESTROOM / LOCKER ROOM
E-FS-3**

CHAPTER 4: ELEMENTARY SCHOOL

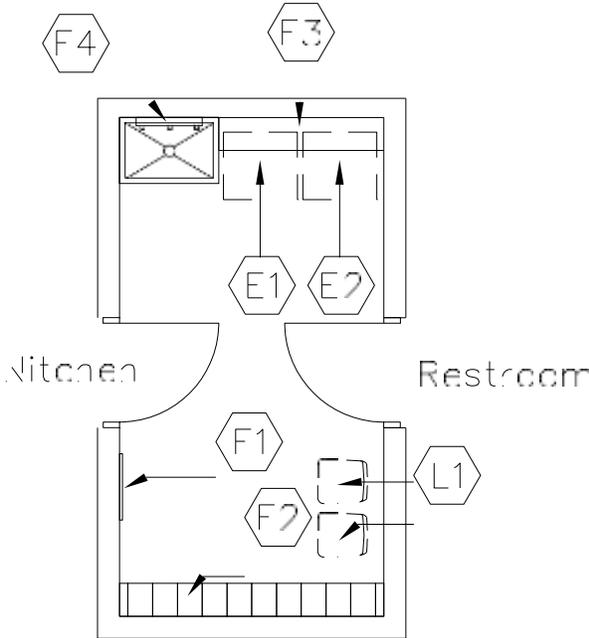
| <u>FINISHES¹:</u> | Spec. Ref.# | <u>FEATURES¹:</u> | Spec. Ref.# |
|---|-------------------------|---|----------------------|
| <u>Flooring:</u> | | <u>Fixed Items:</u> | |
| ET or sheet vinyl | 096500 | F1 Towel dispenser | 102813 |
| Optional: quarry tile or resinous flooring | 093000 096723 | F2 2, 24" x 60" mirrors | 102813 |
| | | F3 Toilet tissue holder | 102813 |
| | | F4 36" and 42" grab bar | 102813 |
| | | F5 Soap dispenser | 102813 |
| <u>Base:</u> | | F6 Mirror with shelf above sink(optional) | 102813 |
| Resilient base | 096500 | F7 Coat hooks | 102813 |
| Optional: quarry tile, integral vinyl cove base, or integral resinous base | 093000 096723 | F8 Lockers 12" x 12" x 60" | 105113 |
| | | F9 Mop holder | 102813 |
| <u>Ceiling:</u> | | <u>Fire Suppression:</u> | |
| Suspended, acoustical | 095113 | Fire suppression system | 211000 |
| <u>Walls:</u> | | <u>Plumbing:</u> | |
| Painted concrete masonry units | 042000/099100 | Wall-mounted water closet | 224000 |
| | | Wall-mounted lavatory | 224000 |
| | | Floor service sink | 224000 |
| | | Plumbing connections | 224000/221116/221119 |
| <u>LOOSE FURNISHINGS:</u> | | <u>HVAC:</u> | |
| L1 Chairs | | Exhaust air system | Div. 23 |
| Wastebasket | | Supplemental heat as required | Div. 23 |
| | | <u>Electrical:</u> | |
| | | Single level switching | 262726 |
| | | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-6 | |
| | | 2 duplex receptacles | 262726 |
| | | <u>Communications:</u> | |
| | | Central sound system | 275123 |
| | | <u>Electronic Safety and Security:</u> | |
| | | Life safety devices per code | 283111 |
| | | <u>Miscellaneous:</u> | |
| | | N/A | |

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.

**LOCKER ROOM
E-FS-4**

CHAPTER 4: ELEMENTARY SCHOOL



PROGRAM ACTIVITIES:

- Space for the food service staff to store their personal belongings and to change their clothing
- Space for the washing, drying, and storage of towels, aprons, etc.

SPATIAL RELATIONSHIPS:

- Adjacent to kitchen
- Adjacent to restroom

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
wall minimum STC 48
ceiling minimum CAC 35, NRC 0.70

CAPACITY: 2 persons
SIZE: 125 SF
ANCILLARY SPACES: Kitchen, E-FS-1
 Restroom, E-FS-3

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.

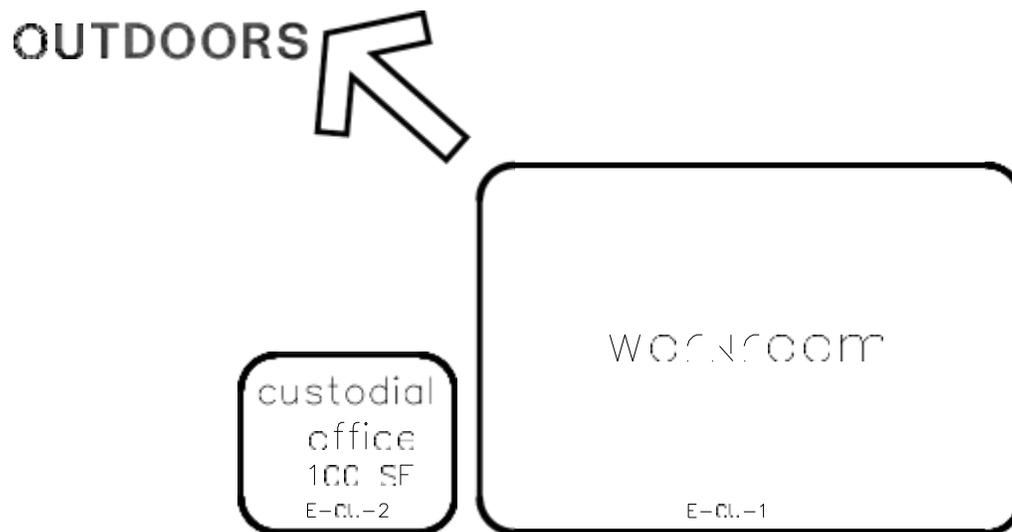
**LOCKER ROOM
E-FS-4**

CHAPTER 4: ELEMENTARY SCHOOL

| <u>FINISHES¹:</u> | Spec. Ref.# | <u>FEATURES¹:</u> | Spec. Ref.# |
|--|----------------|--|----------------------|
| <u>Flooring:</u> | | <u>Fixed Items:</u> | |
| Sheet vinyl, quarry tile , or resinous flooring | 096500 | F1 24" x 60" mirror (optional) | 102813 |
| | 096723 | F2 Lockers 12" x 12" x 60" | 105113 |
| | 093000 | F3 6' of wall cabinets or shelf (optional) | 123550 |
| | | F4 Mop holder | 102813 |
| <u>Base:</u> | | <u>Fire Suppression:</u> | |
| Resilient base, resinous flooring, integral vinyl cove base, quarry tile or integral resinous base | 096500 | Fire suppression system | 211000 |
| | 096723 | | |
| | 093000 | | |
| <u>Ceiling:</u> | | <u>Plumbing:</u> | |
| Suspended, acoustical with high-impact, hold-down clips | 095113 | Plumbing connections | 224000/221116/221119 |
| Option: exposed, painted pre-cast units | 099100 | Floor service sink | 224000 |
| | | Washer connection | 224000 |
| <u>Walls:</u> | | <u>HVAC:</u> | |
| Painted concrete masonry units | 042000/099100 | Exhaust air system | Div. 23 |
| | | Supplemental heat as required | Div. 23 Dryer |
| | | vent system | Div. 23 |
| <u>LOOSE FURNISHINGS:</u> | | <u>Electrical:</u> | |
| L1 Chairs | | Single level switching | 262726 |
| Wastebasket | | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-6 | |
| <u>EQUIPMENT:</u> | | 1 duplex receptacle | 262726 |
| E1 Washer | | Connections for washer and dryer | 262726 |
| E2 Dryer | | | |
| | | <u>Communications:</u> | |
| | | Central sound system | 275123 |
| | | Clock | 275313 |
| | | <u>Electronic Safety and Security:</u> | |
| | | Life safety devices per code | 283111 |
| | | <u>Miscellaneous:</u> | |
| | | Provide storage cabinet for supplies if required by governing agency. | |

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.



NOTES:

This is an example of how the custodial spaces in an elementary school could be arranged. This is meant only to demonstrate the relationships between various spaces of this area.

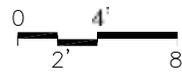
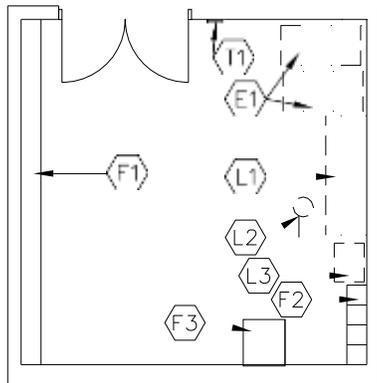
Following are the Custodial space plates:

- E-CU-1 Workroom
- E-CU-2 Custodial Office

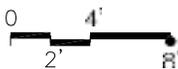
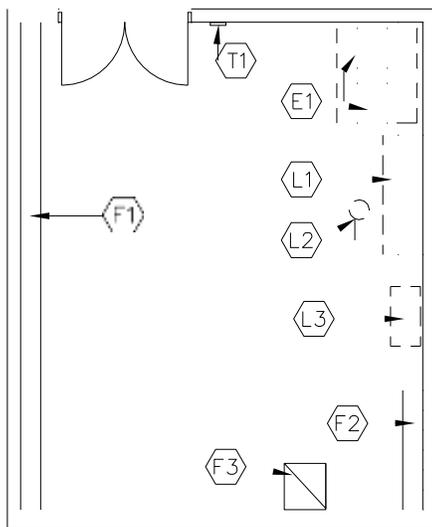
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CHAPTER 4: ELEMENTARY SCHOOL

200 SF



400 SF



CAPACITY:
SIZE:

N/A
200 - 400 SF

PROGRAM ACTIVITIES:

- Space for storage of custodial equipment needed to maintain the building
- Space for equipment repair

SPATIAL RELATIONSHIPS:

- Near central storage area
- Near custodial office

ENVIRONMENTAL CONSIDERATIONS:

NOTES:

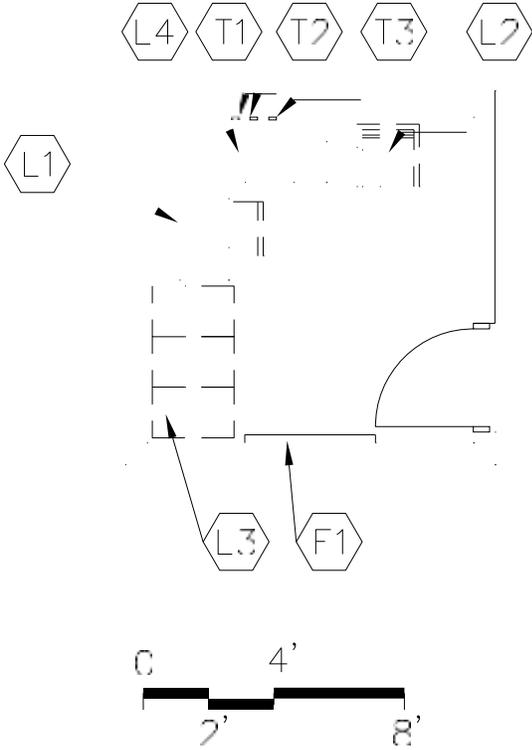
1. Loose furnishings shown represent one of many possible arrangements.

**WORKROOM
E-CU-1**
CHAPTER 4: ELEMENTARY SCHOOL

| <u>FINISHES¹:</u> | Spec. <u>Ref.#</u> | <u>FEATURES¹:</u> | Spec. <u>Ref.#</u> |
|--------------------------------|-----------------------|--|-----------------------|
| <u>Flooring:</u> | | <u>Fixed Items²:</u> | |
| Sealed concrete, | 033000 | F1 10' - 24' of open shelving, | |
| polished concrete finishing | 033510 | depth may vary (fixed or loose) | 123550 |
| or colored concrete finishing | 033519 | F2 4 - 6 lockers | 105113 |
| | | F3 Mop holder | 102813 |
| <u>Base:</u> | | <u>Fire Suppression:</u> | |
| Resilient base | 096500 | Fire suppression system | 211000 |
| <u>Ceiling:</u> | | <u>Plumbing:</u> | |
| Suspended, acoustical | 095113 | Floor service sink | 224000 |
| <u>Walls:</u> | | <u>HVAC:</u> | |
| Painted concrete masonry units | 042000/099100 | Supply/return air system | Div. 23 |
| | | Independent temperature control | 230923 |
| <u>LOOSE FURNISHINGS:</u> | | <u>Electrical:</u> | |
| L1 Workbench | | Fluorescent lighting | 265100 |
| L2 Stool | | Illumination level: See Table 8600-6 | |
| L3 Tool cabinet | | Single level switching | 262726 |
| Waste receptacles | | 4 duplex receptacles (minimum) | 262726 |
| | | Electrical receptacles for custodial | |
| | | equipment | 262726 |
| <u>EQUIPMENT:</u> | | <u>Communications:</u> | |
| E1 Recycling bins | | T1 1 voice port and phone | 271513/ 273123 |
| | | Central sound system | 275123 |
| | | Clock | 275313 |
| | | <u>Electronic Safety and Security:</u> | |
| | | Life safety devices per code | 283111 |
| | | <u>Miscellaneous:</u> | |
| | | N/A | |

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Ranges shown indicate quantities for the smallest and largest possible room size.



PROGRAM ACTIVITIES:

- Office for the custodian for scheduling, ordering, and inventory

SPATIAL RELATIONSHIPS:

- Near custodial workroom

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
wall minimum STC 45
ceiling minimum CAC 35, NRC 0.70
- Optional – window with integral blind

CAPACITY: N/A
 SIZE: 100 SF

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.

**CUSTODIAL OFFICE
E-CU-2**
CHAPTER 4: ELEMENTARY SCHOOL

| | Spec. Ref.# | | Spec. Ref.# |
|--|------------------|---|-----------------------|
| <u>FINISHES¹:</u> | | <u>FEATURES¹:</u> | |
| Flooring: | | <u>Fixed Items:</u> | |
| Linoleum, ET, sheet vinyl, <i>rubber,</i> | 096500 096516 | F1 4' of tack board (optional) | 101100 |
| <i>sealed concrete,</i> | 033000 | <u>Fire Suppression:</u> | |
| polished concrete finishing, or | 033510 | Fire suppression system | 211000 |
| colored concrete finishing | 033519 | <u>Plumbing:</u> | |
| Base: | | N/A | |
| Resilient base | 096500 | <u>HVAC:</u> | |
| Ceiling: | | Supply/return air system | Div. 23 |
| Suspended, acoustical | 095113 | Independent temperature control (coupled with similarly loaded adjacent spaces) | 230923 |
| Walls: | | <u>Electrical:</u> | |
| Painted concrete masonry units | 042000/099100 | Single level switching | 262726 |
| <u>LOOSE FURNISHINGS:</u> | | Fluorescent lighting | 265100 |
| L1 Desk and chair | | Illumination level: See Table 8600-6 | |
| L2 Visitor chair | | 4 duplex receptacles | 262726 |
| L3 File cabinets | | Double duplex receptacle adjacent to data and modem port | 262726 |
| L4 Computer desk return Wastebasket | | <u>Communications:</u> | |
| | | T1 Modem port for temperature controls computer | 271513 |
| | | T2 1 voice port and phone | 271513/ 273123 |
| | | T3 1 data port near workstation | 271513 |
| | | Central sound system | 275123 |
| | | Clock | 275313 |
| | | <u>Electronic Safety and Security:</u> | |
| | | Life safety devices per code | 283111 |
| | | <u>Miscellaneous:</u> | |
| | | Interior window (optional) | 081113/088100 |

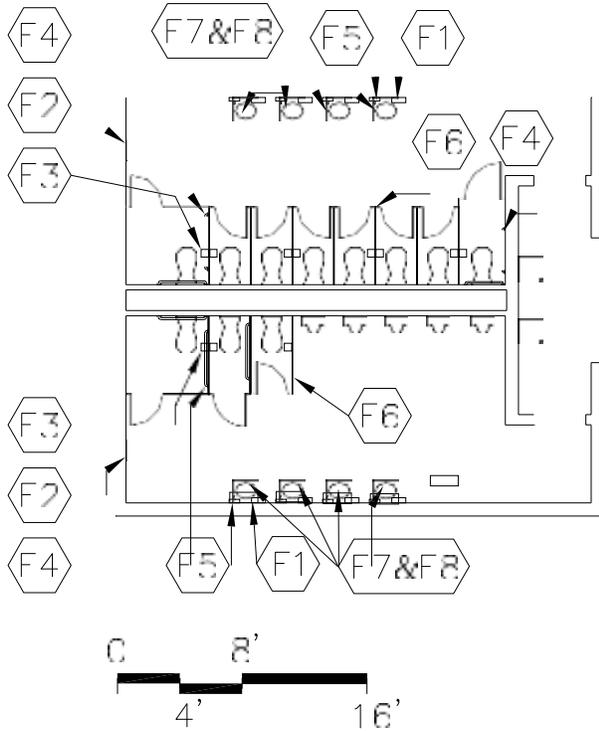
NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Fixed casework and loose furnishings can also be all fixed casework or all loose furnishings.

**LARGE GROUP RESTROOMS
E-BS-1**

CHAPTER 4: ELEMENTARY SCHOOL

Spaces to be determined by Design Professional based on the number of fixtures required.



CAPACITY: Based on size of program area
SIZE: Based on the sum of the program areas excluding building services, multiplied by 3.5%

PROGRAM ACTIVITIES

- Personal and health needs for the students

SPATIAL RELATIONSHIPS:

- Near student dining area
- Near public use areas, such as media center and gymnasium
- Near academic core area
- Restrooms located in several areas throughout building

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control –
 wall minimum STC 53
 ceiling minimum CAC 35, NRC 0.70

NOTES:

1. Where individual restrooms are provided in lieu of large group restrooms, refer to E-BS-10.

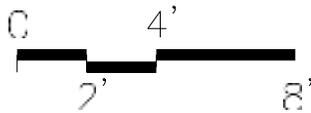
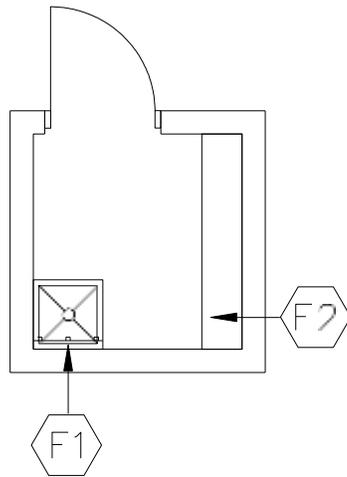
**LARGE GROUP RESTROOMS
E-BS-1**

CHAPTER 4: ELEMENTARY SCHOOL

| <u>FINISHES¹:</u> | Spec. Ref.# | <u>FEATURES¹:</u> | Spec. Ref.# |
|---|-------------------------|--|----------------------|
| <u>Flooring:</u> | | <u>Fixed Items:</u> | |
| Ceramic mosaic tile | 093000 | F1 Towel dispensers | 102813 |
| Optional: porcelain tile, unbacked sheet vinyl with welded seams, or resinous flooring | 096723 096500 | F2 24" x 60" mirror | 102813 |
| | | F3 Toilet tissue holders | 102813 |
| | | F4 36" and 42" grab bar | 102813 |
| | | F5 Soap dispensers | 102813 |
| | | F6 Toilet partitions | 102113 |
| | | F7 16" x 24" mirrors with shelf (optional) | 102813 |
| | | F8 Shelves (optional) | 102813 |
| <u>Base:</u> | | <u>Fire Suppression:</u> | |
| Ceramic mosaic tile base | 093000 | Fire suppression system | 211000 |
| Optional: structural glazed tile, porcelain tile base, or resinous flooring, integral vinyl base | 042000 096723 | | |
| <u>Ceiling:</u> | | <u>Plumbing:</u> | |
| Suspended, acoustical | 095113 | Wall-mounted water closets | 224000 |
| Optional: Abuse resistant gypsum wallboard | 092116 | Wall-mounted urinals | 224000 |
| | | Wall-mounted lavatories or wash fountains | 224000 |
| | | Wall hydrants | 221119 |
| | | Plumbing connections | 224000/221116/221119 |
| | | Drinking water coolers | 224000 |
| <u>Walls:</u> | | <u>HVAC:</u> | |
| Painted concrete masonry units | 042000/099100 | Exhaust air system | Div. 23 |
| | | Supplemental heat as required | Div. 23 |
| <u>LOOSE FURNISHINGS:</u> | | <u>Electrical:</u> | |
| Waste Receptacles | | Single level switching | 262726 |
| | | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-5 | |
| | | 1 duplex receptacle | 262726 |
| | | Emergency lighting | 265100 |
| | | <u>Communications:</u> | |
| | | Central sound system | 275123 |
| | | <u>Electronic Safety and Security:</u> | |
| | | Life safety devices per code | 283111 |
| | | <u>Miscellaneous:</u> | |
| | | N/A | |

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Optional: electric hand dryers



PROGRAM ACTIVITIES:

- Space for storage of custodial supplies throughout the building

SPATIAL RELATIONSHIPS:

- Near large group restrooms

ENVIRONMENTAL CONSIDERATIONS:

CAPACITY:
SIZE:

N/A
50 SF

NOTES:

**CUSTODIAL CLOSET
E-BS-2**

CHAPTER 4: ELEMENTARY SCHOOL

| <u>FINISHES¹:</u> | Spec. Ref.# | <u>FEATURES¹:</u> | Spec. Ref.# |
|----------------------------------|----------------|--|----------------------|
| Flooring: | | <u>Fixed Items:</u> | |
| Sealed concrete | 033000 | F1 Mop holder | 102813 |
| | | F2 Fixed or loose shelving (optional) | 123550 |
| Base: | | <u>Fire Suppression:</u> | |
| Resilient base | 096500 | Fire suppression system | 211000 |
| Ceiling: | | <u>Plumbing:</u> | |
| Cleanable, suspended, acoustical | 095113 | Service sink or floor drain sink | 224000 |
| Walls: | | Plumbing connections | 224000/221116/221119 |
| Painted concrete masonry units | 042000/099100 | <u>HVAC:</u> | |
| | | Exhaust air system | Div. 23 |
| <u>LOOSE FURNISHINGS</u> | | <u>Electrical:</u> | |
| N/A | | Single level switching | 262726 |
| | | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-6 | |
| | | 1 duplex receptacle | 262726 |
| | | <u>Communications:</u> | |
| | | N/A | |
| | | <u>Electronic Safety and Security:</u> | |
| | | N/A | |
| | | <u>Miscellaneous:</u> | |
| | | N/A | |

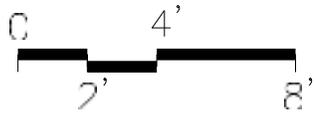
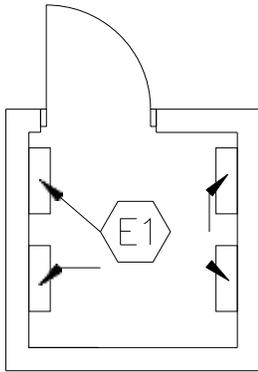
NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.

**ELECTRICAL CLOSET
E-BS-3**

CHAPTER 4: ELEMENTARY SCHOOL

**Space to be determined by
Design Professional.**



PROGRAM ACTIVITIES:

- Space for electrical wiring and panels

SPATIAL RELATIONSHIPS:

N/A

ENVIRONMENTAL CONSIDERATIONS:

**CAPACITY:
SIZE:**

N/A
50 SF

NOTES:

**ELECTRICAL CLOSET
E-BS-3**

CHAPTER 4: ELEMENTARY SCHOOL

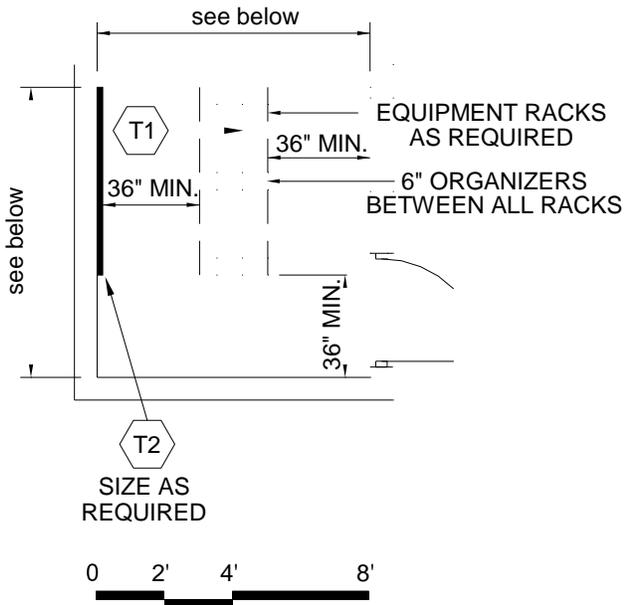
| <u>FINISHES¹:</u> | Spec. Ref.# | <u>FEATURES¹:</u> | Spec. Ref.# |
|----------------------------------|----------------|---|----------------|
| Flooring: | | <u>Fixed Items:</u> | |
| Sealed concrete | 033000 | N/A | |
| Base: | | <u>Fire Suppression:</u> | |
| No base | | Fire suppression system | 211000 |
| Ceiling: | | <u>Plumbing:</u> | |
| Exposed structure | --- | N/A | |
| Walls: | | <u>HVAC:</u> | |
| Unpainted concrete masonry units | 042000 | To be determined by Design Professional | |
| <u>LOOSE FURNISHINGS</u> | | <u>Electrical:</u> | |
| N/A | | Single level switching | 262726 |
| | | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-6 | |
| | | 1 duplex receptacle | 262726 |
| | | E1 Electrical switchboard | 262413/262416 |
| | | <u>Communications:</u> | |
| | | N/A | |
| | | <u>Electronic Safety and Security:</u> | |
| | | N/A | |
| | | <u>Miscellaneous:</u> | |
| | | N/A | |

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.

**TELECOMMUNICATIONS ROOM
E-BS-4**

CHAPTER 4: ELEMENTARY SCHOOL



PROGRAM ACTIVITIES:

- Space for technology needs

SPATIAL RELATIONSHIPS:

N/A

ENVIRONMENTAL CONSIDERATIONS:

CAPACITY:

N/A

SIZE:

**TR Serving Zone > 188 ports:
minimum 10 ft. x 12 ft.**

**TR Serving Zone of 96-188 ports:
minimum 8 ft. x 10 ft.**

**TR Serving Zone of < 96 ports:
minimum 8 ft. x 8 ft.**

NOTES:

1. This is an example of a telecommunications room. The equipment and layout will vary from school district to school district.
2. **Verify and coordinate TR quantity, size and location with technology designer during programming phase.**
3. **Multiple TR's may be required.**

**TELECOMMUNICATIONS ROOM
E-BS-4**

CHAPTER 4: ELEMENTARY SCHOOL

| | Spec. Ref.# | | Spec. Ref.# |
|----------------------------------|----------------|--|----------------------|
| FINISHES¹: | | FEATURES¹: | |
| Flooring: | | Fixed Items: | |
| Sealed concrete, | 033000 | N/A | |
| polished concrete finishing, or | 033510 | | |
| colored concrete finishing | 033519 | Fire Suppression: | |
| | | Fire suppression system | 211000 |
| Base: | | Plumbing: | |
| No base | | N/A | |
| Ceiling: | | HVAC: | |
| Exposed structure | --- | Cooling and exhaust air system | Div. 23 |
| Walls: | | Electrical: | |
| Unpainted concrete masonry units | 042000 | Single level switching | 262726 |
| | | Fluorescent lighting | 265100 |
| LOOSE FURNISHINGS: | | Illumination level: See Table 8600-6 | |
| N/A | | 1 duplex receptacle | 262726 |
| | | Telecommunications Grounding | |
| | | 270526/260526 | |
| | | Standby power | 263213/263600 |
| | | Communications: | |
| | | T1 Technology equipment | |
| | | Central sound system | 275123 |
| | | Telephone Wiring | 271313/271513 |
| | | Integrated Telephone System | 273123 |
| | | Video Wiring | 271543 |
| | | Digital on Demand Delivery System | 274125 |
| | | Local Area Network Wiring | 271513/271323 |
| | | Local Area Network Electronics | 272100/273123 |
| | | Grounding & Infrastructure Equipment | 270526/271100 |
| | | T2 3/4" plywood back board | 271313 |
| | | Electronic Safety and Security: | |
| | | Security System | 281300/281600/282300 |
| | | Miscellaneous: | |
| | | N/A | |

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.

CHAPTER 4: ELEMENTARY SCHOOL

| | |
|---|--|
| <ul style="list-style-type: none"> • Corridors shall be a minimum of 8 feet wide. • Instructional and activity areas shall be accessible by corridors without passing through another instructional or activity area. • The corridors are to meet the egress requirements of applicable codes. • Stairs, ramps, and elevators are included under the corridor category. • It is recommended that stairs in multi-story buildings not be enclosed unless required by code. <p>CAPACITY: Based on size of program area SIZE: Based on the sum of the program areas excluding building services, multiplied by 20%</p> | <p>PROGRAM ACTIVITIES:</p> <ul style="list-style-type: none"> • Circulation space <p>SPATIAL RELATIONSHIPS: N/A</p> <p>ENVIRONMENTAL CONSIDERATIONS:</p> <ul style="list-style-type: none"> • Uniform lighting <p>VESTIBULES</p> <ul style="list-style-type: none"> • Area of vestibules to be included within area allotted for corridors. • Width of vestibules can be no less than minimum width of adjacent corridor. • Minimum corridor length to be 8'-0" between doors. • Vestibules are to be provided at major entrances/exits and may be eliminated at minor entrances/exits as determined by the Design Professional. • Provide automatic door operator on one leaf of main entrance/exit door and related vestibule door. • Provide a five-step or fifteen foot walk off mat extending from main outside entry doors into the building and as wide as the entry doors. • Option – entrance floor grilles. See Chapter 9, Section 124816. • <i>Lockers are not part of the construction factor, but are a part of the circulation/corridor factor.</i> |
|---|--|

NOTES:

CORRIDORS
E-BS-5

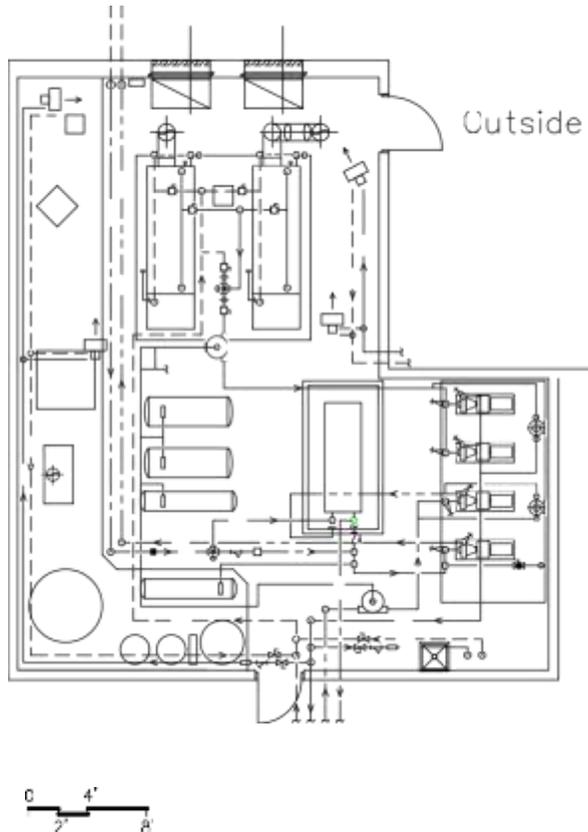
CHAPTER 4: ELEMENTARY SCHOOL

| | Spec. Ref.# | | Spec. Ref.# |
|---|----------------|--|----------------------|
| FINISHES¹: | | FEATURES¹: | |
| Flooring²: | | Fixed Items: | |
| Linoleum, ET, sheet vinyl, | 096500 | Fire extinguishers and cabinets | 104400 |
| carpet, carpet tile, rubber, | 096516 | Recessed vinyl floor mats or | |
| polished concrete finishing, or | 096816 | surface mats | 124813 |
| colored concrete finishing | 096813 | Tack board or tackable wall surface | 101100 |
| | 033510 | | |
| | 033519 | Fire Suppression: | |
| | | N/A | |
| Base: | | Plumbing: | |
| Resilient base | 096500 | Drinking water coolers | 224000 |
| Optional: Structural glazed tile | 042000 | | |
| Ceiling: | | HVAC: | |
| Suspended, acoustical | 095113 | Supply/return air system | Div. 23 |
| Option in vestibules: Abuse resistant | | Temperature control from | |
| gypsum wallboard | 092116 | adjacent instructional spaces | 230923 |
| Walls: | | Electrical: | |
| Painted concrete masonry units | 042000/099100 | Dual level switching | 262726 |
| | | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-6 | |
| LOOSE FURNISHINGS: | | Duplex receptacles | 262726 |
| Recycling bins and waste receptacles | | Means of egress lighting per code | 265100 |
| Fixed or loose benches | | Emergency lighting | 265100 |
| NOTE: At entries adjacent to dining/ commons | | Communications: | |
| area, match dining/commons flooring. | | Central sound system | 275123 |
| | | Clocks | 275313 |
| | | Wireless access points | 271513/272100/272133 |
| | | Video ports | 271543 |
| | | Electronic Safety and Security: | |
| | | Life safety devices per code | 283111 |
| | | Security System | 281300/281600/282300 |
| | | Miscellaneous: | |
| | | Display cases | |
| | | Directory | |

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Linoleum, VET, or sheet vinyl is to be used in vestibules, stairwells, and elsewhere as appropriate. Porcelain tile is optional in lobbies, with resilient or structural glazed tile base.

Space to be determined by Design Professional.



CAPACITY: Based on size of program area

SIZE: Based on the sum of the program areas excluding building services, multiplied by 6.9%

PROGRAM ACTIVITIES:

- Space for mechanical and electrical equipment

SPATIAL RELATIONSHIPS:

- Accessible for maintenance and repair
- Access to outside
- Isolate from main area of building
- Near loading/receiving area
- Near custodial area

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control –
wall minimum STC 60
ceiling minimum CAC 35, NRC 0.70

NOTES:

1. This is an example of a mechanical room. The equipment and layout will vary depending upon the heating, ventilating, and air conditioning system used.
2. A penthouse is considered a mechanical room.

MECHANICAL/ELECTRICAL SPACE/DECKS
E-BS-6

CHAPTER 4: ELEMENTARY SCHOOL

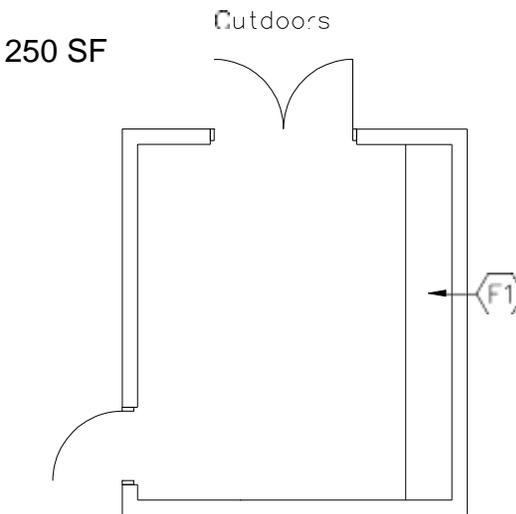
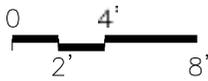
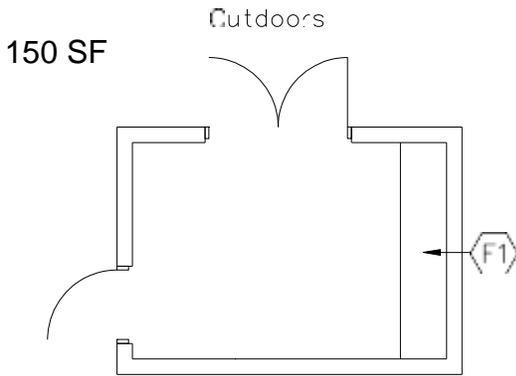
| <u>FINISHES¹:</u> | Spec. Ref.# | <u>FEATURES¹:</u> | Spec. Ref.# |
|----------------------------------|----------------|---|-----------------------|
| Flooring: | | <u>Fixed Items:</u> | |
| Sealed concrete | 033000 | To be determined by Design Professional | |
| Base: | | <u>Fire Suppression:</u> | |
| No base | | To be determined by Design Professional | |
| Ceiling: | | <u>Plumbing:</u> | |
| Exposed structure | --- | To be determined by Design Professional | |
| Walls: (note 2) | | <u>HVAC:</u> | |
| Unpainted concrete masonry units | 042000 | To be determined by Design Professional | |
| <u>LOOSE FURNISHINGS:</u> | | <u>Electrical:</u> | |
| N/A | | Single level switching | 262726 |
| | | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-6 | |
| | | Others as determined by Design Professional | |
| | | <u>Communications:</u> | |
| | | Central sound system | 275123 |
| | | Voice port and phone | 271513/ 273123 |
| | | <u>Electronic Safety and Security:</u> | |
| | | N/A | |
| | | <u>Miscellaneous:</u> | |
| | | N/A | |

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Option for penthouse to use metal panel on concrete masonry or metal panel on metal framing wall systems.

**STORAGE AREA
E-BS-7**

CHAPTER 4: ELEMENTARY SCHOOL



CAPACITY:
SIZE: N/A
150 - 350 SF

PROGRAM ACTIVITIES:

- Space for storage of outdoor custodial equipment

SPATIAL RELATIONSHIPS:

- Near custodial office
- Near custodial workroom
- Direct access to outdoors

ENVIRONMENTAL CONSIDERATIONS:

N/A

NOTES:

**STORAGE AREA
E-BS-7**

CHAPTER 4: ELEMENTARY SCHOOL

| <u>FINISHES</u> ^{1:} | Spec. Ref.# | <u>FEATURES</u> ^{1:} | Spec. Ref.# |
|----------------------------------|----------------|--|----------------|
| Flooring: | | <u>Fixed Items</u> ^{2:} | |
| Sealed concrete | 033000 | F1 10' - 16' of open tall shelving, depth may vary (fixed or loose) | 123550 |
| Base: | | <u>Fire Suppression:</u> | |
| No base | | Fire suppression system | 211000 |
| Ceiling: | | <u>Plumbing:</u> | |
| Exposed structure | --- | N/A | |
| Walls: | | <u>HVAC:</u> | |
| Unpainted concrete masonry units | 042000 | Exhaust air system | Div. 23 |
| | | Supplemental heat as required | Div. 23 |
| <u>LOOSE FURNISHINGS</u> | | <u>Electrical:</u> | |
| N/A | | Single level switching | 262726 |
| | | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-6 | |
| | | Duplex receptacles | 262726 |
| | | <u>Communications:</u> | |
| | | N/A | |
| | | <u>Electronic Safety and Security:</u> | |
| | | Life safety devices per code | 283111 |
| | | <u>Miscellaneous:</u> | |
| | | N/A | |

NOTES:

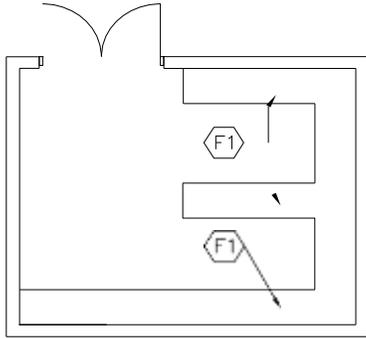
1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Ranges shown indicate quantities for the smallest and largest possible room size.

**CENTRAL STORAGE AREA
E-BS-8**

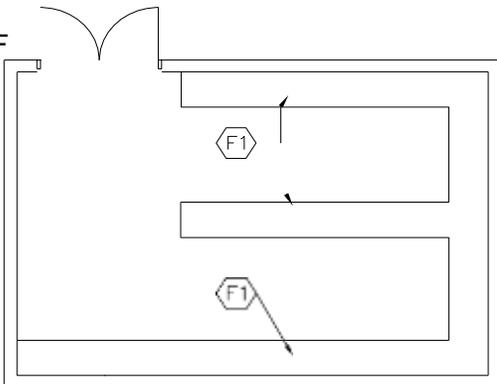
CHAPTER 4: ELEMENTARY SCHOOL

Space to be determined by Design Professional.

250 SF



400 SF



CAPACITY:
SIZE:

N/A
170 - 540 SF

PROGRAM ACTIVITIES:

- Storage for paper products, utensils, supplies, etc., to be used throughout the entire building

SPATIAL RELATIONSHIPS:

- Near loading/receiving area
- Direct access to building circulation

ENVIRONMENTAL CONSIDERATIONS:

N/A

NOTES:

**CENTRAL STORAGE AREA
E-BS-8**

CHAPTER 4: ELEMENTARY SCHOOL

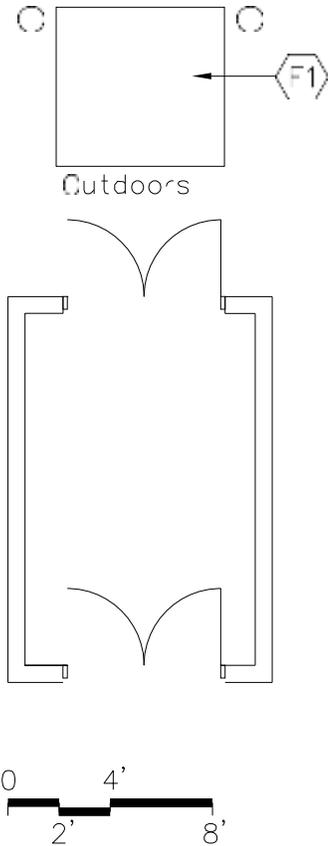
| <u>FINISHES¹:</u> | Spec. Ref.# | <u>FEATURES¹:</u> | Spec. Ref.# |
|----------------------------------|----------------|---|----------------|
| Flooring: | | <u>Fixed Items²:</u> | |
| Sealed concrete | 033000 | F1 26' - 32' of open tall shelving, depths may vary (fixed or loose) | 123550 |
| Base: | | Option: mobile storage shelving | 105626 |
| No base | | <u>Fire Suppression:</u> | |
| Ceiling: | | Fire suppression system | 211000 |
| Exposed structure | --- | <u>Plumbing:</u> | |
| Walls: | | N/A | |
| Unpainted concrete masonry units | 042000 | <u>HVAC:</u> | |
| <u>LOOSE FURNISHINGS:</u> | | Exhaust air system | Div. 23 |
| N/A | | Supplemental heat as required | Div. 23 |
| | | <u>Electrical:</u> | |
| | | Single level switching | 262726 |
| | | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-6 | |
| | | Duplex receptacles | 262726 |
| | | <u>Communications:</u> | |
| | | N/A | |
| | | <u>Electronic Safety and Security:</u> | |
| | | Life safety devices per code | 283111 |
| | | <u>Miscellaneous:</u> | |
| | | N/A | |

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Ranges shown indicate quantities for the smallest and largest possible room size.

**LOADING/RECEIVING AREA
E-BS-9**

CHAPTER 4: ELEMENTARY SCHOOL



PROGRAM ACTIVITIES:

- Delivery of materials and goods to be used throughout the building

SPATIAL RELATIONSHIPS:

- Near food service spaces
- Near central storage area
- Near mechanical room
- Adjacent to loading dock

ENVIRONMENTAL CONSIDERATIONS:

N/A

MISCELLANEOUS:

- Refer to Chapter 3, Section 3201, for site vehicular circulation requirements

CAPACITY:
SIZE:

N/A
120 SF

NOTES:

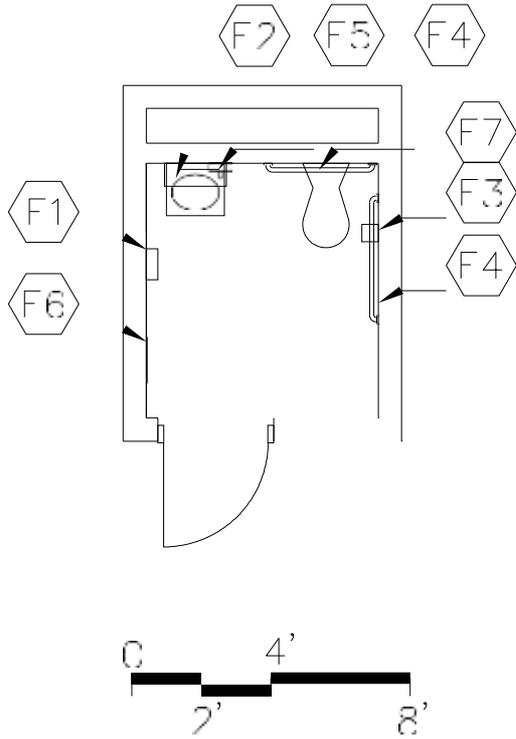
LOADING/RECEIVING AREA
E-BS-9

CHAPTER 4: ELEMENTARY SCHOOL

| <u>FINISHES¹:</u> | Spec. Ref.# | <u>FEATURES¹:</u> | Spec. Ref.# |
|--------------------------------------|-----------------|---|----------------|
| Flooring: | | <u>Fixed Items:</u> | |
| Sealed concrete | 033000 | F1 Loading dock leveler and dock bumpers | 111300 |
| Base: | | <u>Fire Suppression:</u> | |
| No base | | Fire suppression system | 211000 |
| Ceiling: | | <u>Plumbing:</u> | |
| Exposed structure | | N/A | |
| Walls: | | <u>HVAC:</u> | |
| Epoxy-painted concrete masonry units | 042000 / 099100 | Exhaust air system | Div. 23 |
| | | Supplemental heat as required | Div. 23 |
| <u>LOOSE FURNISHINGS:</u> | | <u>Electrical:</u> | |
| N/A | | Single level switching | 262726 |
| | | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-6 | |
| | | Duplex receptacles | 262726 |
| | | <u>Communications:</u> | |
| | | Central sound system | 275123 |
| | | <u>Electronic Safety and Security:</u> | |
| | | N/A | |
| | | <u>Miscellaneous:</u> | |
| | | N/A | |

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.



PROGRAM ACTIVITIES:

- Personal and health needs for the building occupants

SPATIAL RELATIONSHIPS:

- Near academic area

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
wall minimum STC 48
ceiling minimum CAC 35, NRC 0.70
- Moisture- and stain-resistant finishes

CAPACITY:
SIZE:

1 person
60 SF

NOTES:

1. Separate restrooms must be provided for male and female students

**RESTROOM
E-B S-10**

CHAPTER 4: ELEMENTARY SCHOOL

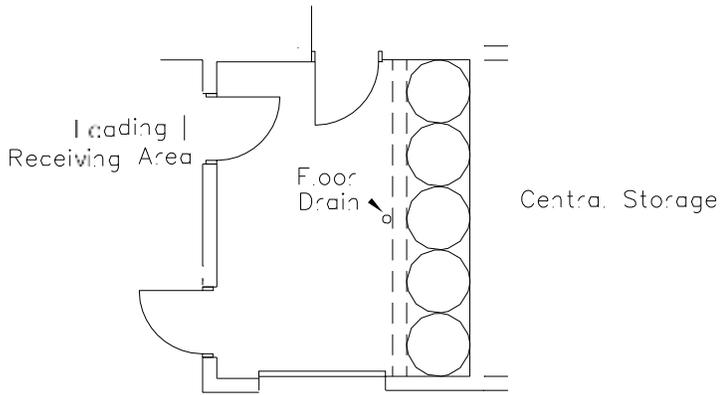
| <u>FINISHES¹:</u> | Spec. Ref.# | <u>FEATURES¹:</u> | Spec. Ref.# |
|--|------------------|---|----------------------|
| <u>Flooring:</u> | | <u>Fixed Items:</u> | |
| ET, sheet vinyl | 096516 | F1 Towel dispenser | 102813 |
| | 096500 | F2 Mirror with shelf above sink(optional) | 102813 F3 |
| Optional: quarry tile, or resinous flooring | 093000 | Toilet tissue holder | 102813 |
| | 096723 | F4 36" and 42" grab bar | 102813 |
| | | F5 Soap dispenser | 102813 |
| <u>Base:</u> | | F6 Sanitary product dispenser | 102813 |
| Resilient base | 096500 | F7 Sanitary product receptacle | 102813 |
| Optional: quarry tile, resinous flooring, or integral vinyl cove base | 093000 096723 | | |
| | | <u>Fire Suppression:</u> | |
| <u>Ceiling:</u> | | Fire suppression system | 211000 |
| Suspended, acoustical | 095113 | <u>Plumbing:</u> | |
| | | Wall-mounted water closet | 224000 |
| <u>Walls:</u> | | Wall-mounted lavatory | 224000 |
| Painted concrete masonry units | 042000/099100 | Plumbing connections | 224000/221116/221119 |
| | | <u>HVAC:</u> | |
| <u>LOOSE FURNISHINGS:</u> | | Exhaust air system | Div. 23 |
| Wastebasket | | Supplemental heat as required | Div. 23 |
| | | <u>Electrical:</u> | |
| | | Single level switching | 262726 |
| | | Fluorescent lighting | 265100 |
| | | Illumination level: See Table 8600-4 | |
| | | 1 duplex receptacle | 262726 |
| | | <u>Communications:</u> | |
| | | Central sound system | 275123 |
| | | <u>Electronic Safety and Security:</u> | |
| | | Life safety devices per code | 283111 |
| | | <u>Miscellaneous:</u> | |
| | | N/A | |

NOTES:

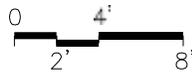
1. Finishes/Features: Refer to Chapter 9 for specification references.
2. F6 and F7 required for female restroom only.

**RECYCLING ROOM
E-BS-11**

CHAPTER 4: ELEMENTARY SCHOOL



LOADING DOCK
Direct access to loading dock, if possible



Direct access to loading dock, if possible.

CAPACITY: N/A
SIZE: 80 - 160 SF

PROGRAM ACTIVITIES:

- Provide recyclable collection for paper, cardboard, glass, plastics and metals

SPATIAL RELATIONSHIPS:

- Near food service spaces
- Near central storage area
- Near mechanical room
- Adjacent to loading dock

ENVIRONMENTAL CONSIDERATIONS:

N/A

MISCELLANEOUS:

- Refer to Chapter 3, Section 3201, for site vehicular circulation requirements

NOTES:

1. Contact local collection agency to see if co-mingling of materials is permitted. Design team should meet the LEED intent when designing the recycling area.