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.

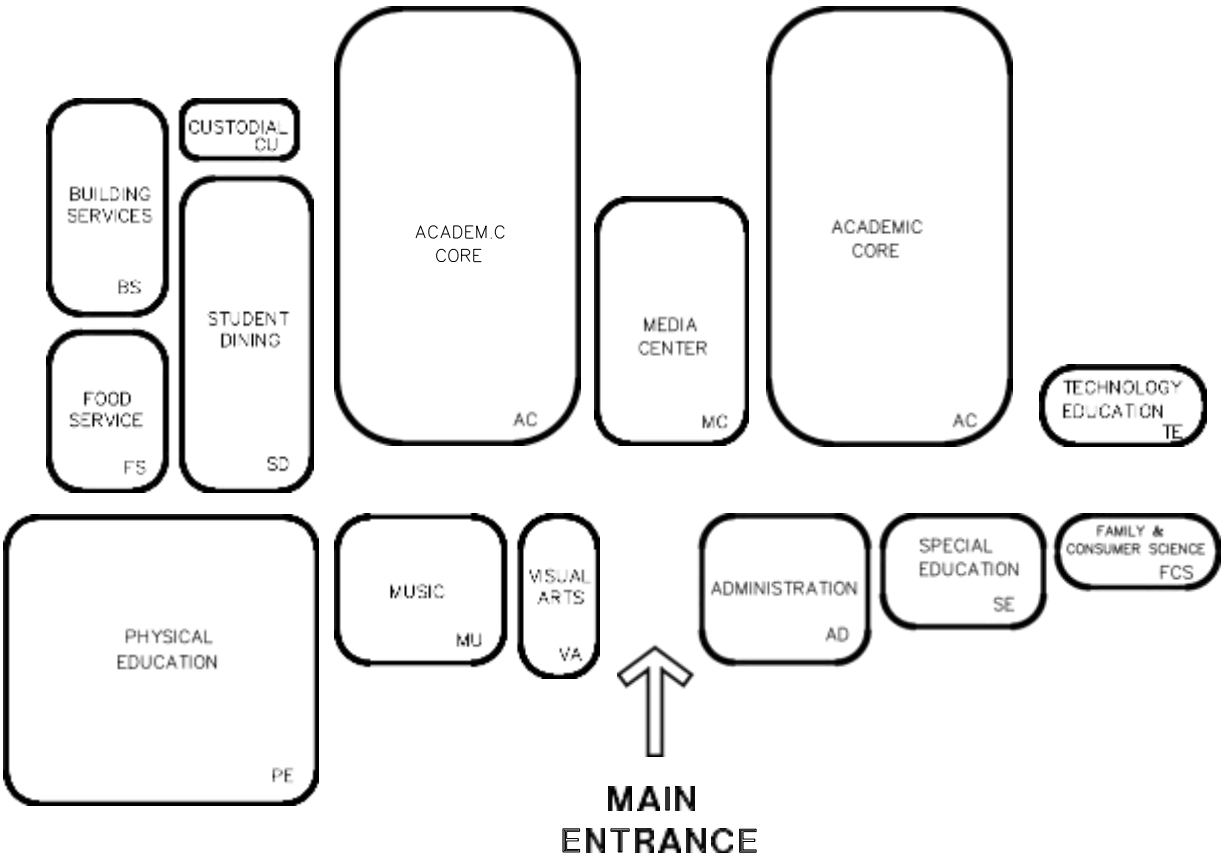
FEATURES

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 just one example of how the spaces in a middle school could be arranged. This is meant only to demonstrate the relationships between various spaces of the building.

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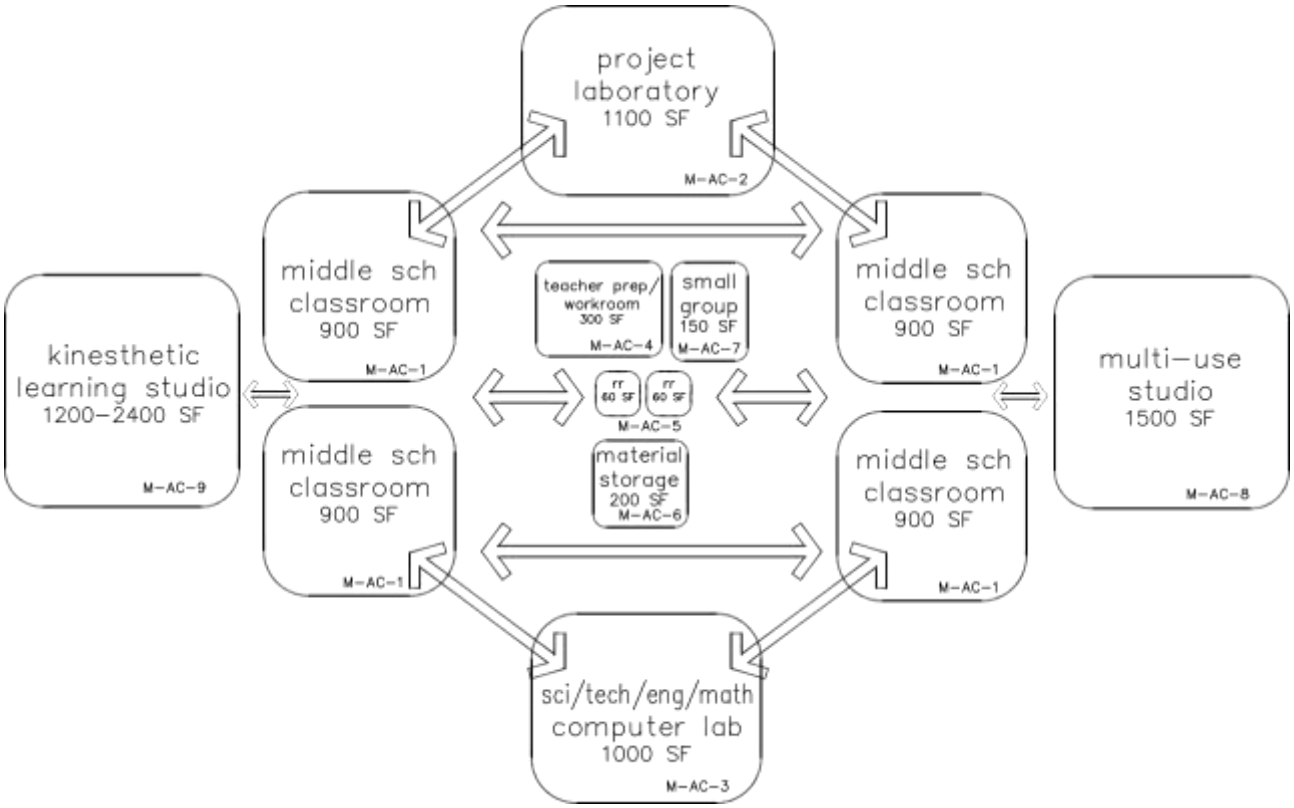

NOTES:

This is an example of how the academic core spaces in a middle 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:

M-AC-1 Middle School Classroom
M-AC-2 Project Laboratory
M-AC-3 Sci/Tech/Eng/Math/Computer Lab
M-AC-***4*** Teacher Prep Area/Workroom
M-AC-***5*** Individual Restroom
M-AC-***6*** Instructional Material Storage
M-AC-***7*** Small Group Room
M-AC-8 Multi-Use Studio
M-AC-9 Kinesthetic Learning Studio

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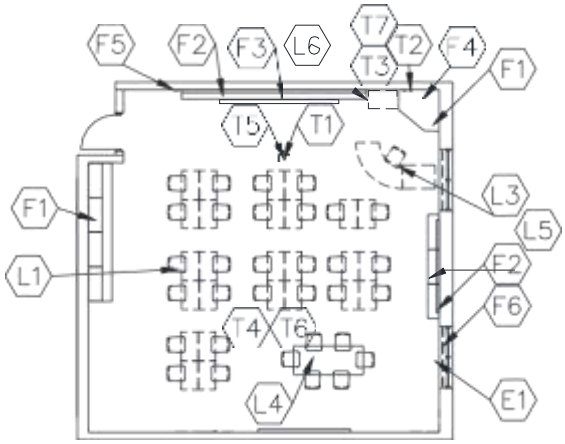
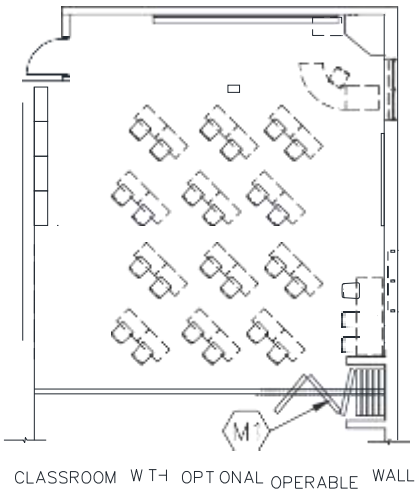




CAPACITY: 25 students
SIZE: 900 SF
ANCILLARY SPACES:

PROGRAM ACTIVITIES:

- Serves the instructional programs for the following disciplines: language arts, social studies, and mathematics.
- Instructional program shall provide developmental experiences, improve communication skills, changes in social development and in-depth academic understandings.
- The methodology for delivery of programs will involve the traditional strategies, but will include interdisciplinary activities, a variety of groupings, team teaching, and learning and manipulative exercises.

SPATIAL RELATIONSHIPS:

- Classrooms should have easy and quick access to the media center, administrative services, physical education areas, and the arts.

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
- Flexibility of space

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.

MIDDLE SCHOOL CLASSROOM
M-AC-1

FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet, carpet tile	096816
Optional: linoleum, ET,	096500
sheet vinyl, or rubber	096516
	096813
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Paint	
099100	

LOOSE FURNISHINGS:
L1 Student desks or tables and chairs
L2 Reserved
L3 Teacher desk or workstation/computer support and chair
L4 Activity table
L5 9' of low bookcases (fixed or mobile)
L6 File cabinet
Wastebasket
Note: Must keep wastebasket
L3 can be loose or fixed.`

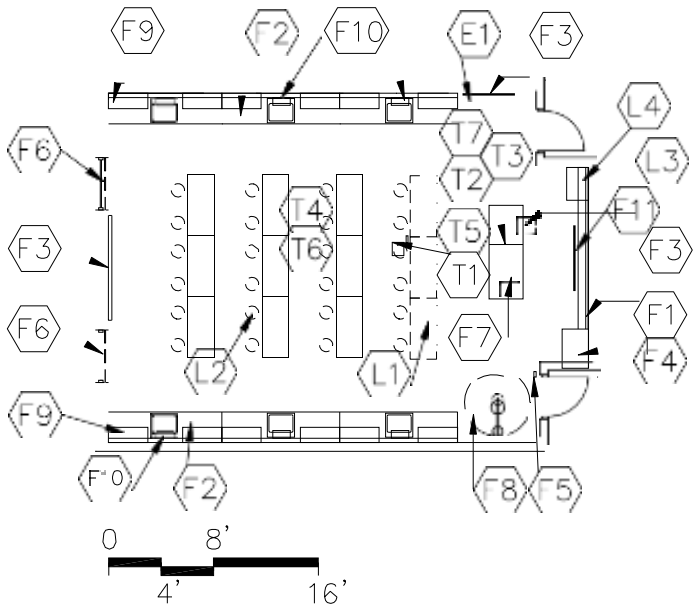
Electronic Safety and Security	
Life safety devices per code	283111

Miscellaneous:	
Pencil sharpener (optional)	
M1 Operable partitions are optional between classrooms	102226
E1 Duplex receptacle with dedicated circuit for wireless devices	

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 12'-24' combination tall wardrobe, base and wall cabinets	123550
F2 22'-32' combination marker board, tack board & tackable wall surface	123550
F3 Projection screen (optional)	115213
F4 Technology support casework	123550
F5 Pencil sharpener support (optional)	062000
F6 Windows with integral blinds	085113
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
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 work station	271513
T4 Wireless access point cable above ceiling	
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 4	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. Where appropriate, some casework may be mobile to add flexibility and could become part of loose furnishings.
4. Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133

requirements.



CAPACITY: 24-28 students
SIZE: 1,100 SF
ANCILLARY SPACES:

PROGRAM ACTIVITIES:

- Primary use of this laboratory will be science instruction and scientific discovery activities, but this laboratory may be used for instruction and hands-on experiences in other discipline areas, especially mathematics.
- Will serve multi-discipline groups of five classrooms.
- There will be lecture, experiment, discussion, and manipulation activities during each class session.

SPATIAL RELATIONSHIPS:

- Easy and quick access to other academic areas.
- Easy access to large group restrooms, lockers, teacher prep/workroom, and instructional material storage.
- Adjacent to at least one academic classroom which has resources for mathematics instruction.
- Each room will have an area for preparation of materials by students and staff.
- Easy access to administrative services and related curriculum instructional 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
- Acid- and stain-resistant work and floor surfaces

NOTES:

1. Loose furnishings shown represent two of many possible arrangements.
2. Depending upon the educational program of the district, a tall wardrobe may be located in this laboratory or could be placed in a teacher prep area/workroom.
3. Option: Small, bay window-type, pre-manufactured greenhouse.
   No additional square footage allowed.
4. The layouts shown do not restrict or reflect the variety of arrangements available to the Design Professional.

PROJECT LABORATORY

M-AC-2

FINISHES[1]:	Spec. Ref.#
Flooring:	
Vinyl sheet flooring, linoleum,	096516
rubber, ET,	096500
polished concrete finishing, or	033510
colored concrete finishing	033519
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Paint	099100

LOOSE FURNISHINGS:

L1 Student work tables
L2 Student stools/chairs
L3 Teacher desk or workstation/ computer support and chair
L4 File cabinet
L5 Reserved

Electronic Safety and Security:	
Life safety devices per code	283111

Miscellaneous:

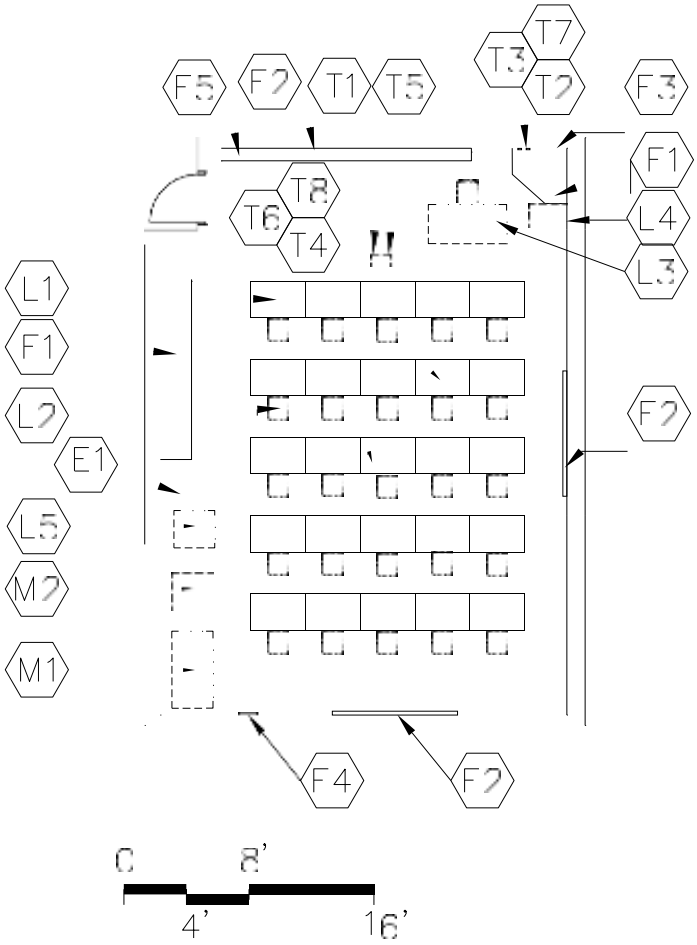
Pencil sharpener (optional)

E1 Duplex receptacle with dedicated circuit for wireless devices

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Tall wardrobe with file drawers	123550
F2 40'-58' lab station casework or loose cabinets with 6 sinks	123550
F3 22'-32' combination marker board, tack board & tackable wall surface	101100
F4 Technology support casework	123550
F5 Pencil sharpener support (optional)	062000
F6 Windows with integral blinds	085113
F7 Demonstration table	123550
F8 Emergency shower/eyewash(option)	123550
F9 24'-40' of wall cabinets	123550
F10 Towel dispensers (optional)	102813
F11 Projection screen (optional)	115213
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Sinks	224000
Plumbing connections	224000/221116/221119
Emergency shower/eyewash Connection (optional)	224000
Gas connections (optional)	226313
Master shutoff for gas (optional)	226313
Compressed air connections(option)	221500
HVAC:	
Supply/return air system	Div. 23
Manually controlled exhaust air system	Div. 23
Independent temperature control	230923
Electrical:	
Fluorescent lighting Illumination level: See Table 8600-5	265100
Multilevel switching	262726
4 duplex receptacles (optional)	262726
Double duplex receptacle adjacent to each data and video port	262726
Means of egress lighting per code	265100
Emergency lighting	265100
Communications:	
T1 1 projector video port	271543
T2 1 voice port and phone	271513/273123
T3 1 data port near teacher work station	271513
T4 Wireless access point cable above ceiling	271513
Clock	275313
Central sound system	275123
Sound reinforcement system	275127
T5 Overhead 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.



CAPACITY: 25 students
SIZE: 1,000 SF

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.

NOTES:

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

SCI/TECH/ENG/MATH/COMPUTER LAB

M-AC-3

FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet, carpet tile	096816
Optional: ET or sheet vinyl	096813
	096500
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Paint	099100

LOOSE FURNISHINGS:

L1 Computer workstation furniture (could be fixed)
L2 Student chairs
L3 Teacher desk/computer support and chair
L4 File cabinet
L5 Printer / scanner stand
Wastebasket

Electronic Safety and Security:	
Life safety devices per code	283111

Miscellaneous:

Pencil sharpener (optional)

The following items are to be funded by the school district:

M1 Classroom area network file server
M2 Printer

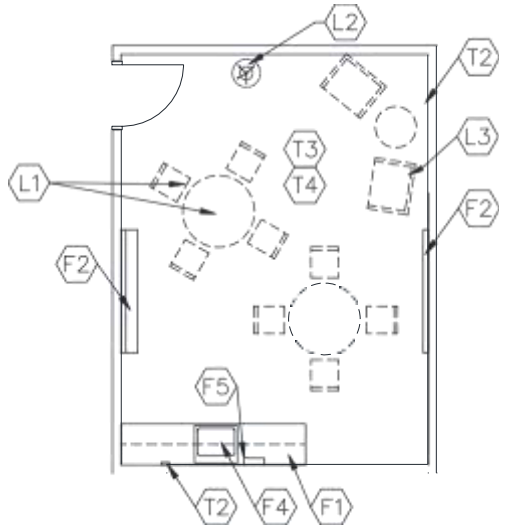
E1 Duplex receptacle with dedicated circuit for wireless devices

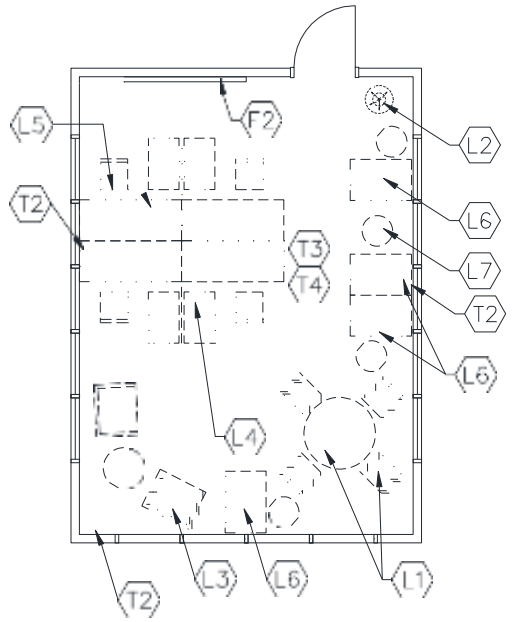
FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 8'-20' combination tall wardrobe, base & wall cabinets	123550
F2 Combination marker board, tack board, & tackable wall surface	101100
F3 Technology support casework	123550
F4 Pencil sharpener support (optional)	062000
F5 Projection screen (optional)	115213
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Electrical:	
Fluorescent lighting with ***computer aided*** lenses	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 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.

Note: Some casework may be mobile for flexibility and could become part of loose furnishings.





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

M-AC-4

FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet, ET, linoleum,	096816
sheet vinyl, or rubber	096500
	096516
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Paint	099100

LOOSE FURNISHINGS:

L1 Tables and chairs
L2 Coat Rack
L3 Soft Seating
L4 Teacher computer trucks
L5 Teacher workstation furniture and chair
L6 42" high teacher cabinet with work surface top
L7 Stools
Wastebasket

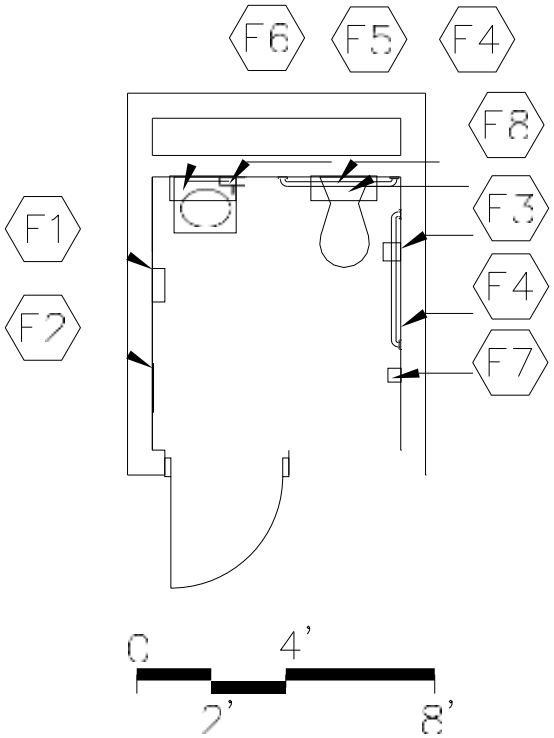
Miscellaneous:
Copier by school district

E1 Reserved

FEATURES[1]:		Spec. Ref.#
Fixed Items:		
F1	15'-20' combination base and wall cabinets	123550
F2	***50-75 sf*** combination marker board, tack board & tackable wall surface	10110
F3	Reserved	
F4	3' sink base cabinet	123550
F5	Towel dispenser (optional)	102813
Fire Suppression:		
	Fire suppression systems	211000
Plumbing:		
	Sink	224000
	Plumbing connections	224000/221116/221119
HVAC:		
	Supply/return air system	Div. 23
	Independent temperature control	230923
Electrical:		
	Single-level 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
	Duplex receptacles for office equipment	262726
	Receptacle for copier (if applicable)	262726
Communications:		
T1	***Reserved***	
T2	***Voice ports and 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***
	Clock	275313
	Central sound system	275123
Electronic Safety and Security:		
	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.***



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

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

NOTES:

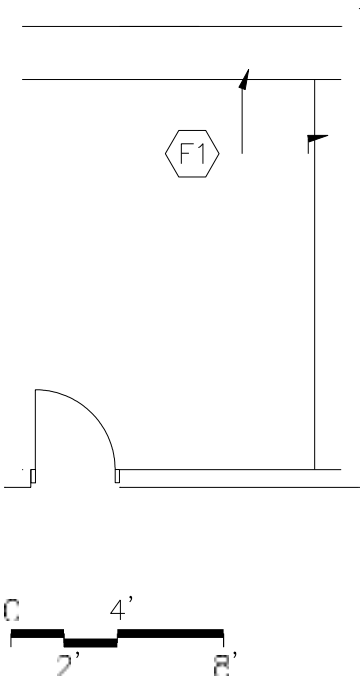
INDIVIDUAL RESTROOM
M-AC-*5*

FINISHES[1]:	Spec. Ref.#
Flooring:	
ET or sheet vinyl	096500
Optional: Ceramic mosaic tile,	093000
porcelain tile, or	096723
resinous flooring	
Base:	
Resilient base	096500
Optional: Ceramic mosaic tile,	093000
porcelain tile, resinous flooring	096723 or
integral vinyl cove base	
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100
LOOSE FURNISHINGS:	
Wastebasket	

FEATURES[1]:		Spec. Ref.#
Fixed Items:		
F1	Towel dispenser	102813
F2	24" x 60" mirror	102813
F3	Toilet tissue holder	102813
F4	36" and 42" grab bar	102813
F5	Soap dispenser	102813
F6	Shelf above sink (optional)	102813
F7	Coat hook	102813
F8	Wall cabinet above toilet (optional)	102813
Fire Suppression:		
	Fire suppression system	211000
Plumbing:		
	Wall-mounted water closet	224000
	Wall-mounted lavatory	224000
	Plumbing connections	224000/221116/221119
HVAC:		
	Exhaust air system	Div. 23
	Supplemental heat as required	Div. 23
Electrical:		
	Single level switching	262726
	Fluorescent lighting	265100
	Illumination level: See Table 8600-**5**	
	1 duplex receptacle	262726
Communications:		
	Central sound system	275123
Electronic Safety and Security:		
	Life safety devices per code	283111
Miscellaneous:		
	N/A	

NOTES:

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



CAPACITY: N/A
SIZE: 200 SF

PROGRAM ACTIVITIES:
- Storage of supplies, textbooks, and equipment

SPATIAL RELATIONSHIPS:
- Near teacher prep area/workroom

ENVIRONMENTAL CONSIDERATIONS:
N/A

NOTES:

INSTRUCTIONAL MATERIAL STORAGE
M-AC-*6*

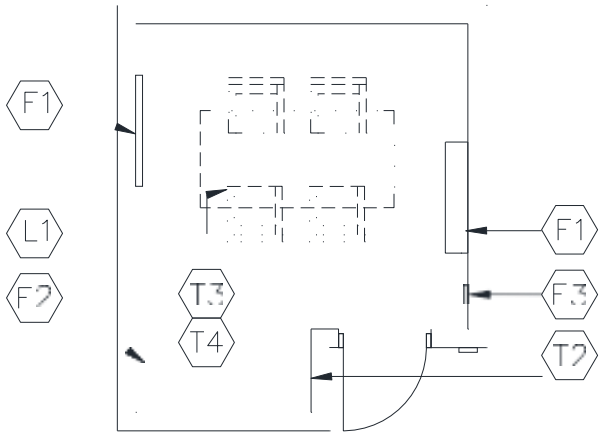
FINISHES[1]:	Spec. Ref.#
Flooring:	
Linoleum, r*ubber*, ET or sheet vinyl	096500 ***096516***
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry	042000/099100

LOOSE FURNISHINGS:
N/A

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 20'-30' of open shelving, depths may vary (fixed or loose)	123550
Option: mobile storage shelving	105626
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
To be determined by Design Professional	
Supplemental heat as required	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***5***	
1 duplex receptacle	262726
Communications:	
N/A	
Electronic Safety and Security:	
N/A	
Miscellaneous:	
N/A	

NOTES:

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



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
M-AC-*7*

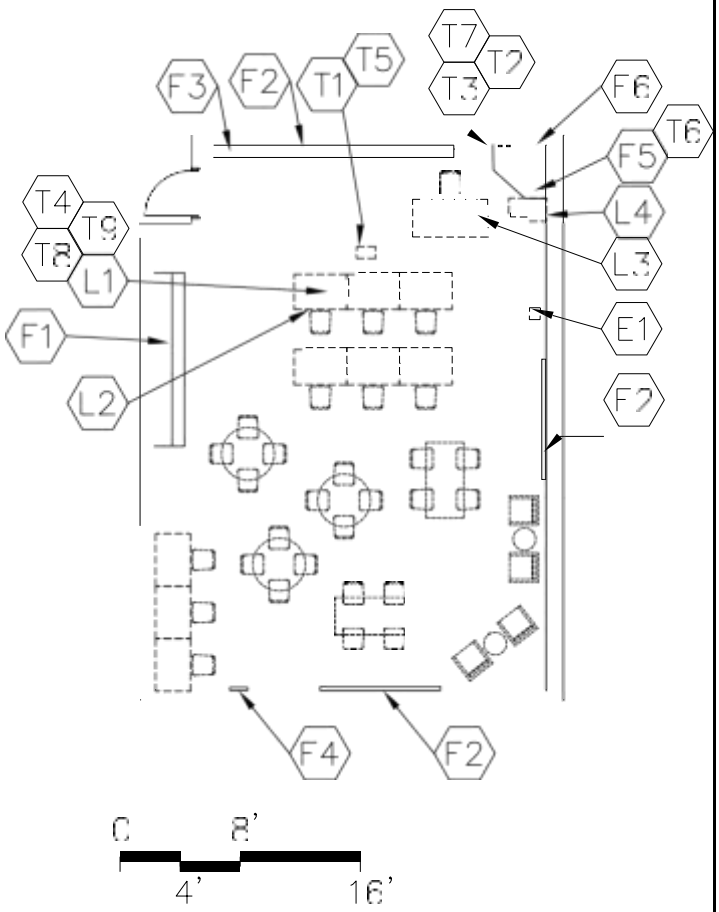
FINISHES[1]:	Spec. Ref.#
Flooring:	
ET, sheet vinyl, linoleum, or rubber	096500 096516 096813
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:
L1 Work tables and chairs
L2 Reserved
Wastebasket

Miscellaneous:
Interior windows (optional) 081113/088000
Pencil sharpener (optional)

FEATURES[1]:		Spec. Ref.#
Fixed Items:		
F1	8'-10' combination marker board, tack board, & tackable wall surface	101100
F2	4'-6' of work surface fixed or loose (optional)	123550
F3	Pencil sharpener support (optional)	062000
Fire Suppression:		
	Fire suppression system	211000
Plumbing:		
	N/A	
HVAC:		
	Supply/return air system	Div. 23
	Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
Electrical:		
	Fluorescent lighting:	265100
	Illumination level: See Table 8600-5	
	4 duplex receptacles	262726
	Double duplex receptacle adjacent to each data and video port	262726
Communications:		
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
Electronic Safety and Security:		
	Life safety devices per code	283111
Miscellaneous:		
	Interior windows (optional)	081113/088000
	Pencil sharpener (optional)	

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

M-AC-8

FINISHES[1]:	Spec. Ref.#
Flooring:	
ET, sheet vinyl, linoleum, rubber	096500 096516
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:

L1 Flexible furniture
L2 Student chairs
L3 Teacher desk and chair
L4 File cabinet
Wastebasket

Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
Pencil sharpener (optional)	

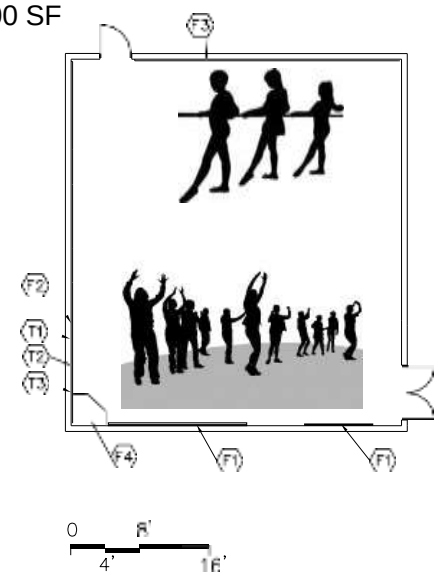
E1 Duplex receptacle with dedicated circuit for wireless devices

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 4'-16' of base & wall cabinets	123550
F2 18'-28' combination marker board, tack board, or tackable wall surface	101100
F3 Projection screen (optional)	115213
F4 Pencil sharpener support (optional)	062000
F5 Tall wardrobe with file drawers	123550
F6 Technology support casework	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing: N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Electrical:	
Fluorescent lighting	265100
Illumination level: See Table 8600-5	
Multilevel switching	262726
6 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 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	
T7 Classroom technology center video port	271543, 274116, 274119, 275127
T8 Wireless access point cable above ceiling	271513
T9 Wireless access point (WAP) as determined by Design – refer to Note 3	272133

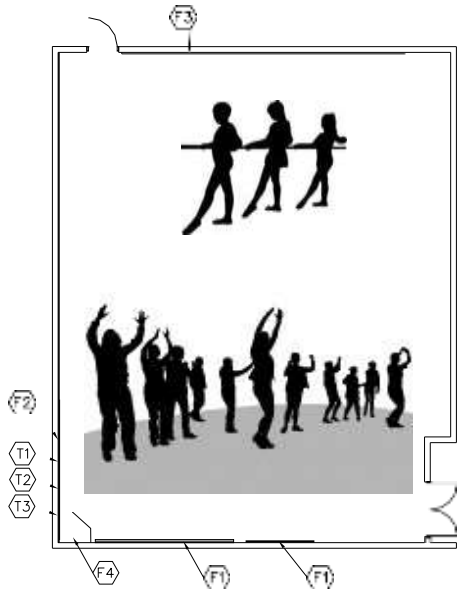
NOTES:

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.

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:

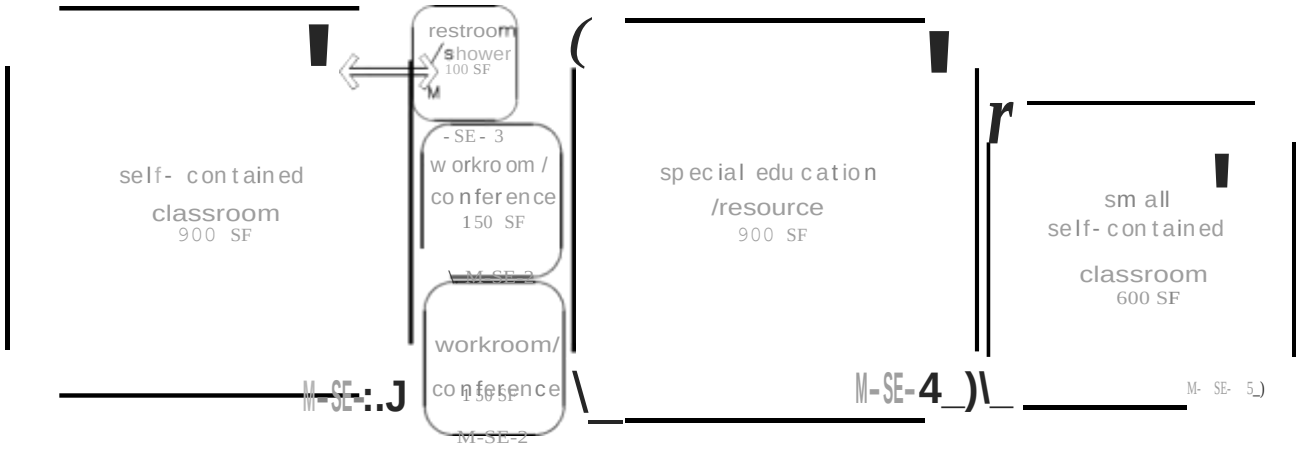
KINESTHETIC LEARNING STUDIO
M-AC-9

FINISHES[1]:	Spec. Ref.#
Flooring:	
Fluid applied athletic flooring	096766
Base:	
Resilient base	096500
Ceiling:	
Painted exposed structure	099100
Walls:	
Paint	
099100	

FEATURES:	Spec. Ref.#
Fixed Items:	
F1 8'-24' combination marker board, tack board, or tackable wall surface	101100
F2 Mirrors	102813
F3 Dance bars	116615
F4 Tall wardrobe with file drawers	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Electrical:	
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
Communications:	
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	
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

NOTES:

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



NOTES:

This is an example of how the special education spaces in a middle 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:

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

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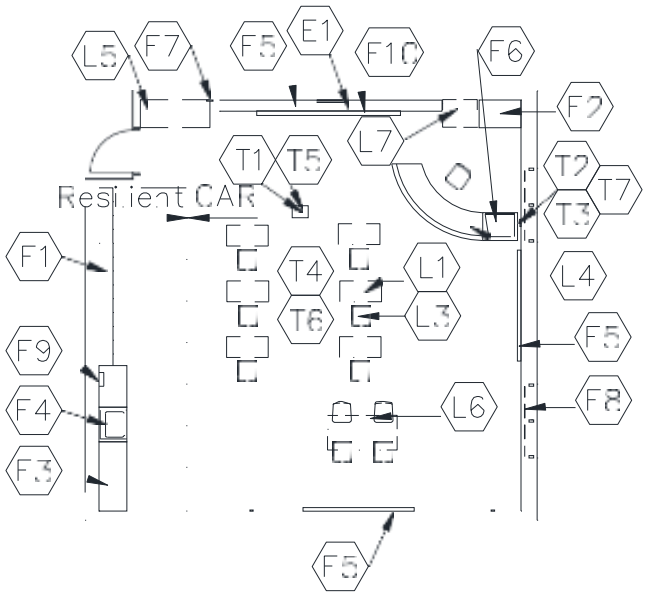


CAPACITY: Based on disability.
See Chapter 1, Section 1110.

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
M-SE-1

FINISHES[1]:	Spec. Ref.#
Flooring:	
Combination carpet, carpet tile, with resilient options	096816 096500
Optional: All ET, sheet vinyl, linoleum, or rubber	096516
096813	
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Paint	099100

LOOSE FURNISHINGS:
L1 Student desks/tables
L2 Reserved
L3 Student chairs
L4 Teacher workstations/computer support and chair
L5 8'-10' of low bookcases (fixed or mobile)
L6 Reading table
L7 File cabinet
Wastebasket

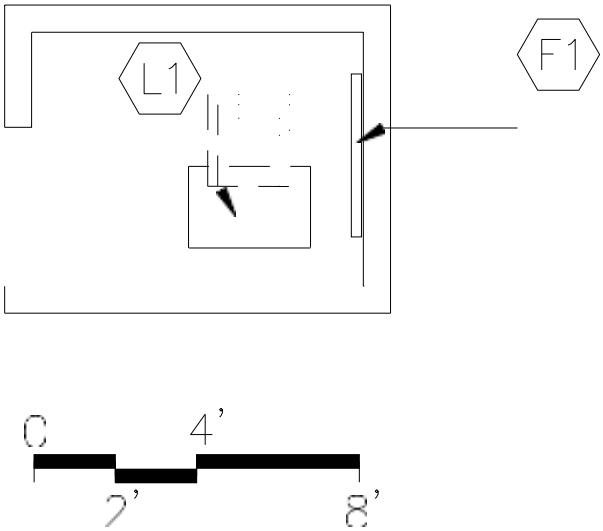
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
Pencil sharpener (optional)	
E1 Duplex receptacle with dedicated circuit for wireless devices	

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Open casework – student coats and personal items with wall cabinets above (optional) or base/wall/tall cabinets	123550
F2 Tall wardrobe w/file drawers	123550
F3 8'-10' of base & wall cabinets	123550
F4 3' sink base cabinet	123550
F5 24'-32' combination marker board, tack board or tackable wall surface	101100
F6 Technology support casework	123550
F7 Pencil sharpener support (optional)	062000
F8 Windows with integral blinds	085113
F9 Towel dispenser (optional)	102813
F10 Projection screen (optional)	115213
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Sink with drinking fountain	224000
Plumbing connections	224000/221116/221119
HVAC:	
Supply/return air system	Div. 23
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	
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.

Note: Some casework may be mobile for flexibility and could become part of loose furnishings.

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



CAPACITY: 1 - 2 persons
SIZE: 150 SF

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:

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

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

M-SE-2 (Quiet Area)

FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet, carpet tile, ET, linoleum, or sheet vinyl	096816 096500 096516 096813
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

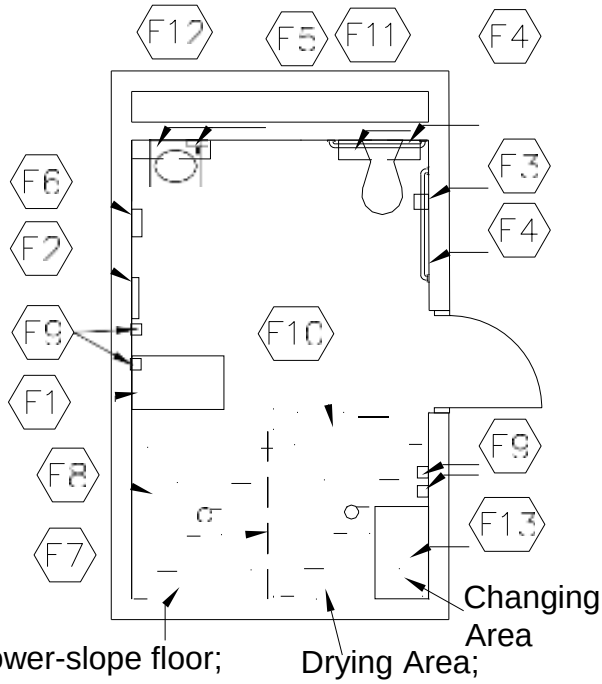
LOOSE FURNISHINGS:

L1 Student desk and chair
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 4' of tack board or marker board (optional)	101100
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Electrical:	
Dimmable lighting	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-5	
1 duplex receptacle	262726
Communications:	
Clock (optional)	275313
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
Interior window with blinds (optional)	081113/088000

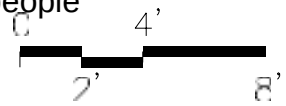
NOTES:

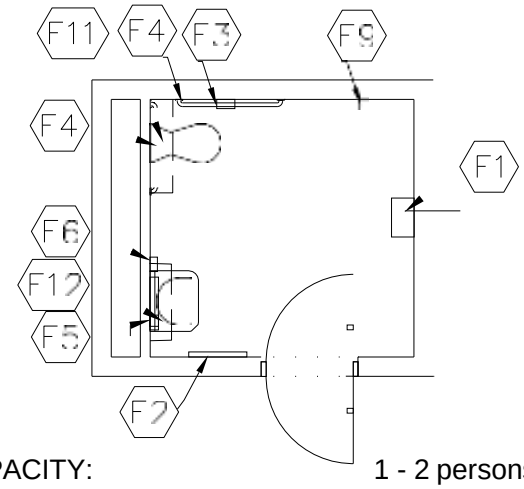
1. Finishes/Features: Refer to Chapter 9 for specification references.



no raised threshhold;
5' x 5' for two people

5' x 5' sloped floor





CAPACITY: 1 - 2 persons
SIZE: 100 SF

PROGRAM ACTIVITIES:
- Changing area
- Toilet / shower needs

SPATIAL RELATIONSHIPS:
- Next to self-contained classroom

ENVIRONMENTAL CONSIDERATIONS:
- 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)

ANCILLARY SPACES:

NOTES:

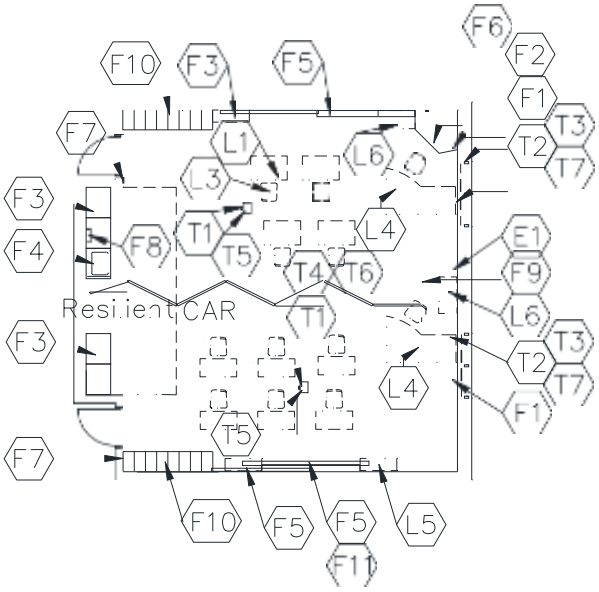
1. See Chapter 1, page 1110-16 for specific areas needed for each disability.

RESTROOM/SHOWER
M-SE-3

FINISHES[1]:	Spec. Ref.#
Flooring:	
Ceramic mosaic tile, porcelain tile, ET, vinyl sheet, rubber sheet flooring	096516 096500
Shower: Ceramic mosaic tile or porcelain tile	093000
Base:	
Restroom: Resilient base, ***ceramic mosaic, porcelain tile, or 093000*** integral vinyl cove base	096500
Shower: Ceramic mosaic tile base, porcelain tile, or integral vinyl cove base	093000
Ceiling:	
Restroom: Suspended, acoustical	095113
Shower: Painted portland cement plaster or	092400/099100
interior finish system	092513
Walls:	
Epoxy painted concrete masonry units	042000/099100
or ceramic wall tile in shower	093000
and latex paint in restroom	099100
LOOSE FURNISHINGS:	
Wastebasket	

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Base cabinets	123550
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
F7 Shower curtain and rod	102813
F8 ADA shower accessories	102813
F9 (2) towel 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
Fire Suppression:	
Fire suppression system	283111
Plumbing:	
Wall-mounted water closet	224000
Wall-mounted lavatory	224000
ADA shower controls and head	224000
Plumbing connections	224000/221116/221119
HVAC:	
Exhaust air system	Div. 23
Supplemental heat as required	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***5***	
1 duplex receptacle	262726
Communications:	
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
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.



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

SIZE: 900 SF

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

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
M-SE-4

FINISHES[1]:	Spec. Ref.#
Flooring:	
Combination carpet, carpet tile	096816
with resilient options	096500
Option: All ET, sheet vinyl,	096516
linoleum, or rubber	096813
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Windows with integral blinds	085113
F2 Tall wardrobe with file drawers	123550
F3 8'-12' of base cabinets	123550
F4 3' sink base cabinet	123550
F5 20'-32' combination chalk/marker board, tack board, tackable wall surface	101100 F6
Technology support casework	123550
F7 Pencil sharpener support (optional)	062000 F8
Towel dispenser (optional)	102813
F9 Operable partition (optional)	102226
F10 Open casework coats and personal storage w/wall cabinets above	123550

E1 Duplex receptacle with dedicated circuit for wireless devices

Communications (cont'd):

T6 Wireless access point (WAP) as determined by Design – refer to Note 3 272133

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

T1 1 projector video port 271543
T2 1 voice port and phone 271513/237123
T3 1 data port

near each teacher workstation 271513

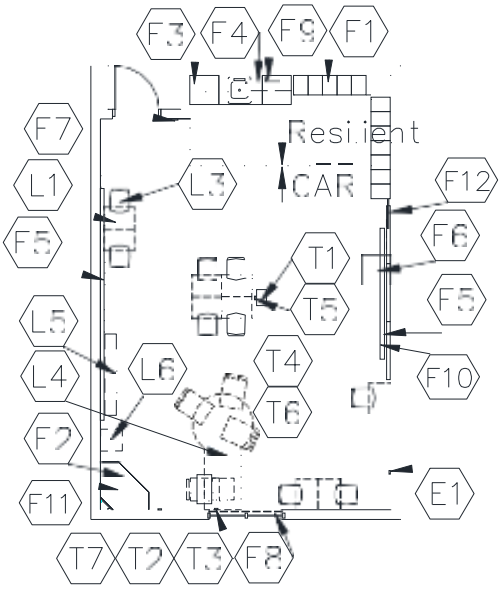
T4 Wireless access point cable above ceiling 271513

Clock 275313
Sound reinforcement system 275127
Central sound system 275123

T5 Ultra-short throw interactive projector 274119

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

M-SE-5 (Special Education) CHAPTER 5: MIDDLE SCHOOL

FINISHES[1]:	Spec. Ref.#
Flooring:	
Combination carpet, carpet tile,	096816
with resilient options	096516
Option: All ET,sheet vinyl,	096500
linoleum or rubber	096813
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Paint	099100

LOOSE FURNISHINGS:

L1 Student desks/tables

L2 Reserved

L3 Student chairs

L4 Teacher workstations/computer support and chair

L5 6' of low bookcases (fixed or mobile)

Wastebasket

Electronic Safety and Security:

Life safety device per code 283111

Miscellaneous:

Pencil sharpener (optional)

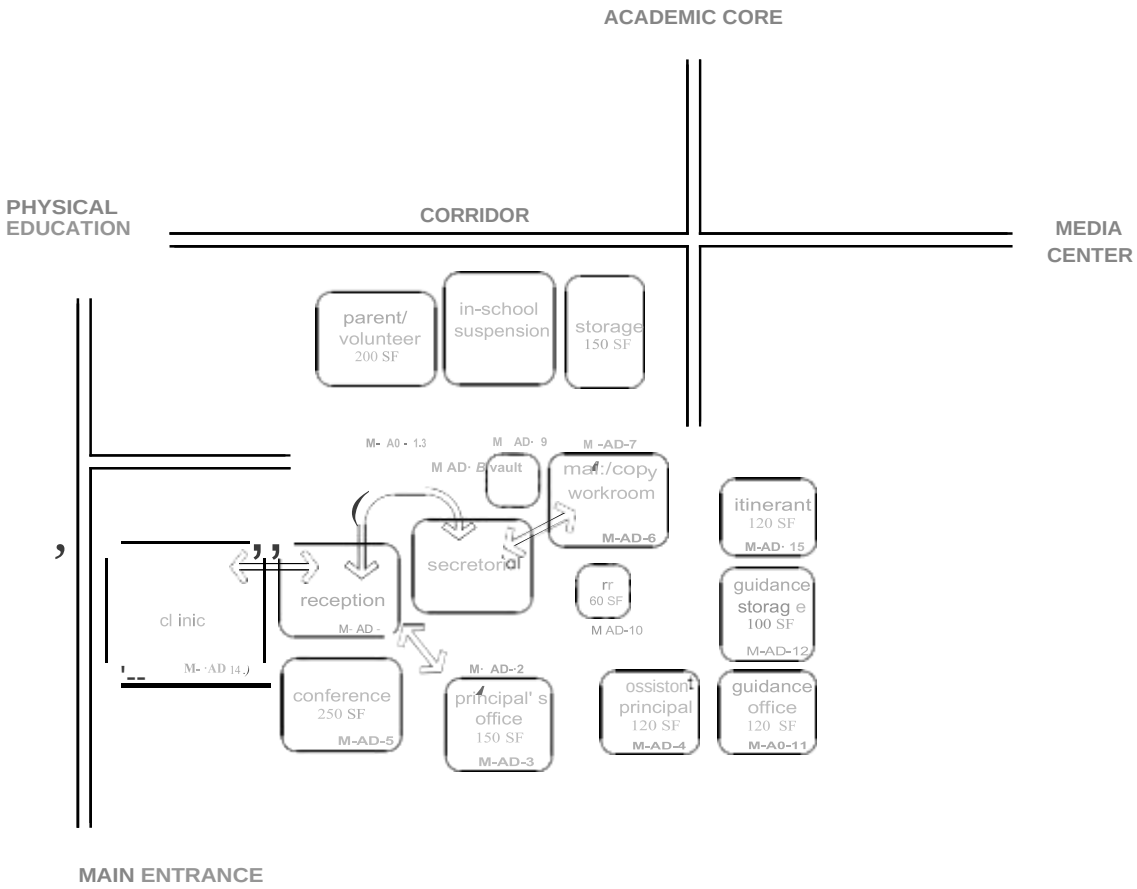
E1 Duplex receptacle with dedicated circuit for wireless devices

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Open casework – coats and personal items with wall cabinets above (optional) or base/wall/tall cabinets	123550
F2 Tall wardrobe w/file drawers	123550
F3 About 6' of base & wall cabinets	123550
F4 3' sink base cabinet	123550
F5 20'-28' combination marker board, tack board, & tackable wall surface	101100
F6 Mobile storage cabinet (optional)	123550
F7 Pencil sharpener support (optional)	062000
F8 Windows with integral blinds	085113
F9 Towel dispenser (optional)	102813
F10 Projection screen (optional)	115213
F11 Technology support casework	123550
F12 Mirror (optional)	102813
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Sink with drinking fountain	224000
Plumbing connections	224000/221116/221119
HVAC:	
Supply/return air system	Div. 23
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.



NOTES:

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

Following are the Administrative space plates:

M-AD-1	Reception Area
M-AD-2	Secretarial Area
M-AD-3	Principal's Office
M-AD-4	Assistant Principal's Office
M-AD-5	Conference Room
M-AD-6	Mail/Work/Copy Room
M-AD-7	Administrative Storage
M-AD-8	Vault/Records Storage
M-AD-9	In-school Suspension
M-AD-10	Restroom
M-AD-11	Guidance Counselor's Office
M-AD-12	Guidance Records/Storage
M-AD-13	Parent/Volunteer Room
M-AD-14	Health Clinic (includes restroom)
M-AD-15	Itinerant Personnel Office

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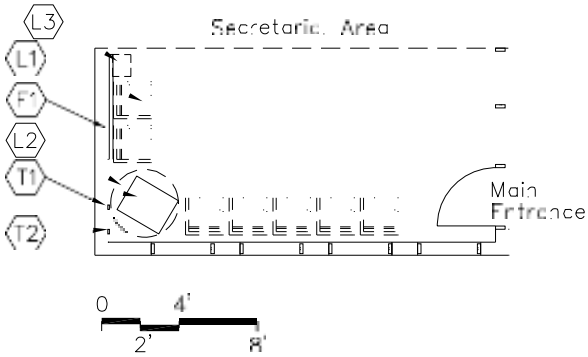
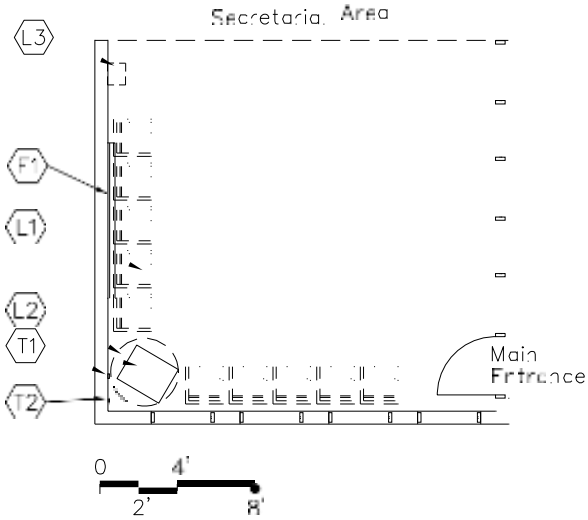
200 SF



400 SF



CAPACITY: 6 - 8 or 8 - 10 visitors
SIZE: 200 - ***450*** SF
ANCILLARY SPACES: Secretarial Area M-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
M-AD-1

FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet or Carpet Tile	096816 096813
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted gypsum wallboard over metal studs	092116/099100

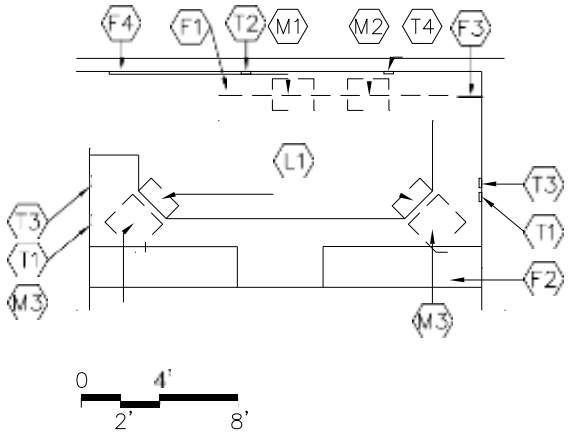
LOOSE FURNISHINGS:
L1 Visitor chairs
L2 End table
L3 Racks for forms (optional)
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Tack board or tackable wall surface (optional)	101100
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-5	
2 duplex receptacles	262726
Double duplex receptacle adjacent to video port	262726
Means of egress lighting per code	265100
Communications:	
T1 1 ***projector*** video port, monitor, and brackets	271543/274119
T2 1 voice port and phone	271513/273123
Clock	275313
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
Interior windows	081113/088000

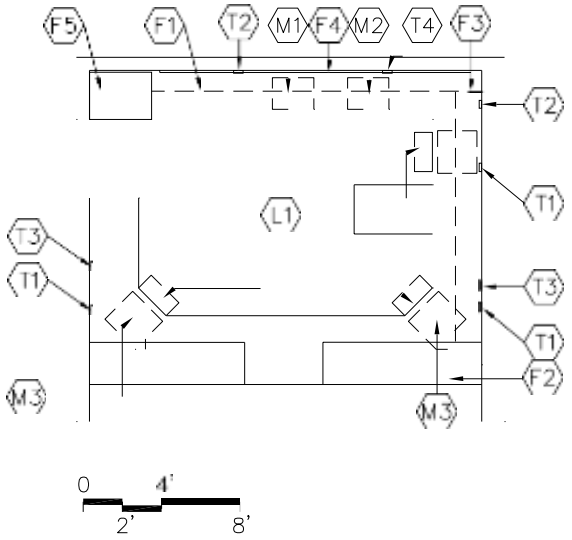
NOTES:

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

200 SF ADA Compliant Approach



400 SF ADA Compliant Approach



CAPACITY: 1 - 2 or 2 - 3 staff
SIZE: 200 - ***450*** SF
ANCILLARY SPACES: Reception Area M-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
M-AD-2

FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet or Carpet Tile	096816 096813
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted gypsum wallboard over metal studs	092116/099100

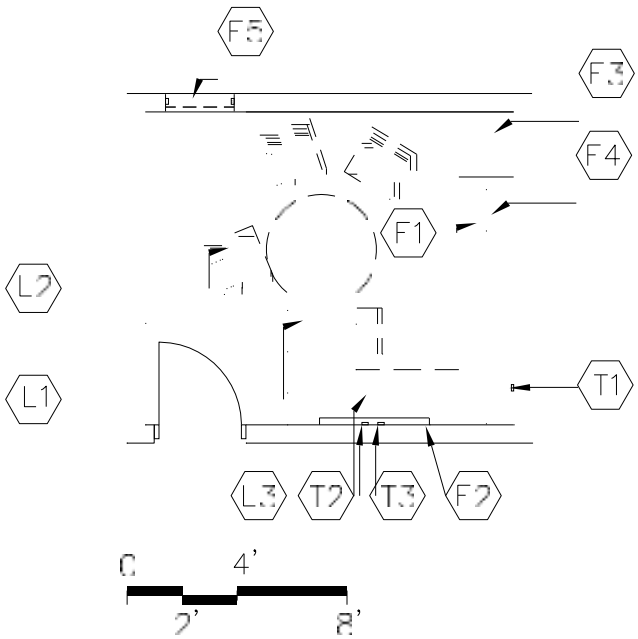
LOOSE FURNISHINGS:
L1 Secretarial chairs
Wastebasket

Miscellaneous:
The following items are to be funded by the school district:
M1 Fax machine
M2 Printer
M3 Computer/typewriter

FEATURES[1]:	Spec. Ref.#
Fixed Items[2]:	
F1 24' - 60' of work surface with file drawers	123550
F2 42" high counter top with portion of counter 34" high or lower	123550
F3 16'-24' of wall cabinets ***(optional)*** for forms, supplies, books, and manuals	123550
F4 Tackable wall surface (optional)	101100
F5 Tall cabinet for coats (optional)	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Temperature control with reception area (coupled with similarly loaded adjacent spaces)	230923
Electrical:	
Single level switching	262726
Fluorescent lighting Illumination level: See Table 8600-***5***	265100
3 duplex receptacles	262726
Double duplex receptacle adjacent to each data port	262726
Emergency lighting	265100
Communications:	
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
Electronic Safety and Security:	
Life safety devices per code	283111

NOTES:

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



CAPACITY: 1 - 4 persons
SIZE: 150 SF

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

NOTES:

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

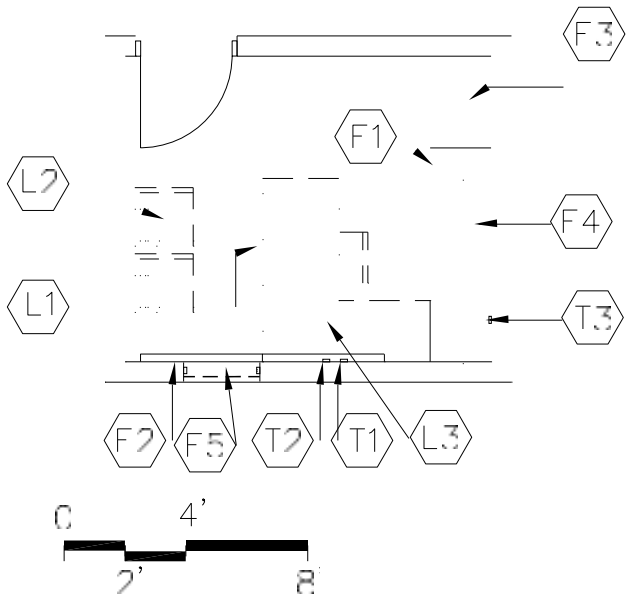
PRINCIPAL'S OFFICE
M-AD-3

FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet or Carpet Tile	096816
	096813
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted gypsum wallboard over metal studs	092116/099100

LOOSE FURNISHINGS:
L1 Desk and chair
L2 Visitor chairs
L3 Computer desk return
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Work surface with file drawers	123550 F2
4' of tack board, marker board or tackable wall surface	101100
F3 Tall wardrobe (optional)	123550
F4 Wall cabinets above work surface	123550 F5
Window with integral blinds	085113
Coat hook (optional)	
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
Electrical:	
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
Communications:	
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
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
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.



CAPACITY: 1 - 3 persons
SIZE: 120 SF

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

NOTES:

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

ASSISTANT PRINCIPAL'S OFFICE
M-AD-4

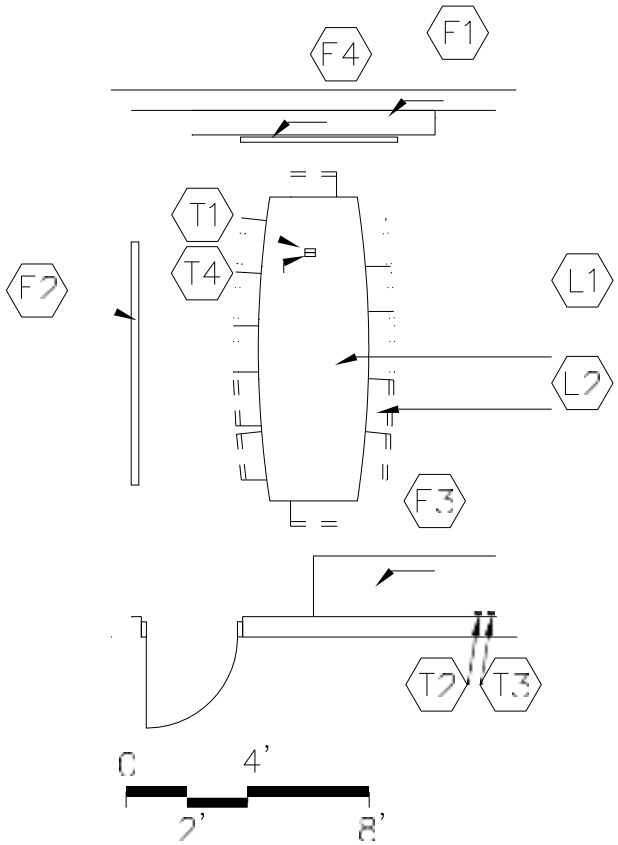
FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet or Carpet Tile	096816 096813
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted gypsum wallboard over metal studs	092116/099100

LOOSE FURNISHINGS:
L1 Desk and chair
L2 Visitor chairs
L3 Computer desk return
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Work surface with file drawers	123550 F2
4' of tack board, marker board, or tackable wall surface	101100
F3 Tall wardrobe	123550
F4 Wall cabinets above work surface	123550 F5
Window with integral blinds	085113
Coat hook (optional)	
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
Electrical:	
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
Communications:	
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
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
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.



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
M-AD-5

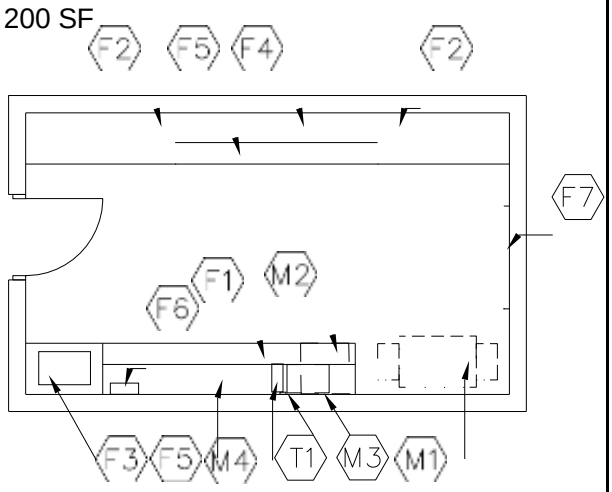
FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet or Carpet Tile	096816
	096813
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted gypsum wallboard over metal studs	092116/099100

LOOSE FURNISHINGS:
L1 Conference table
L2 Chairs
Wastebasket

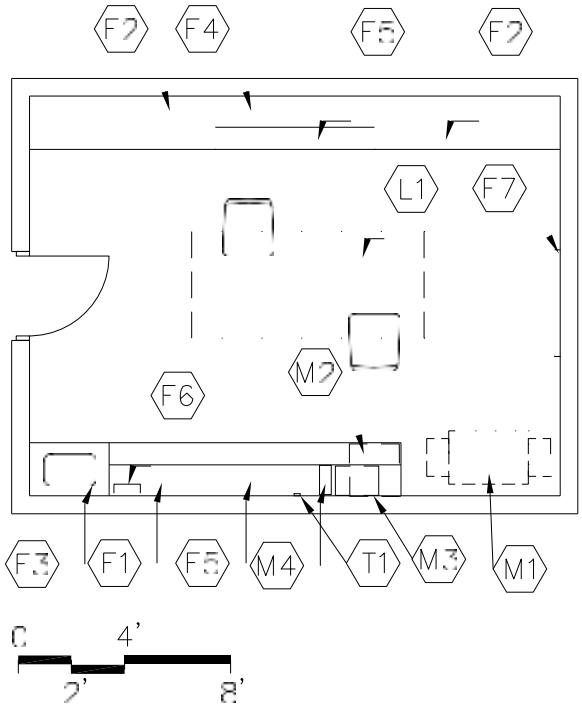
FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 About 16' combination marker board, tack board, & tackable wall surface or media display cabinet	101100
F2 Reserved	
F3 Base cabinets (optional)	123550
F4 Projection screen (optional)	115213
Coat hooks (optional)	
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Electrical:	
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
Communications:	
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
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

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.

200 SF



300 SF



CAPACITY: N/A
SIZE: 200 - ***400*** 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

NOTES:

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

MAIL/WORK/COPY ROOM
M-AD-6

FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet, carpet tile, rubber, linoleum, ET or sheet vinyl	096500 ***096813*** ***096816*** ***096516***
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted gypsum wallboard over metal studs	092116/099100

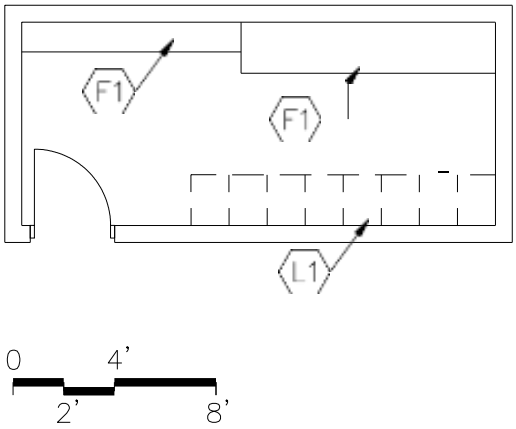
LOOSE FURNISHINGS:
L1 Work table and chairs
(applicable in 300 SF space only)
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 About 10' of base & wall cabinets	123550
F2 8'-12' of tall storage cabinets or about ***28'-32' combination*** storage cabinets	123550
F3 3' sink base cabinet	123550
F4 Mail cubicles for all staff	123200
F5 ***Reserved***	
F6 Towel dispenser (optional)	102813
F7 4' tack board ***or marker board*** (optional)	101100
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Sink	224000
Plumbing connections	224000/221116/221119
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***5***	
3 - 5 duplex receptacles	262726
Receptacle for copier	262726
Communications:	
T1 1 voice port and phone	271513/***273123***
Clock	275313
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	283111

Miscellaneous:
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.



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:	150 ***- 200*** SF

NOTES:

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

ADMINISTRATIVE STORAGE
M-AD-7

FINISHES[1]:	Spec. Ref.#
Flooring:	
Rubber, ***carpet, carpet tile, linoleum, ET or sheet vinyl***	096500 ***096813*** ***096816*** ***096516***
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted gypsum wallboard over metal studs	092116/099100

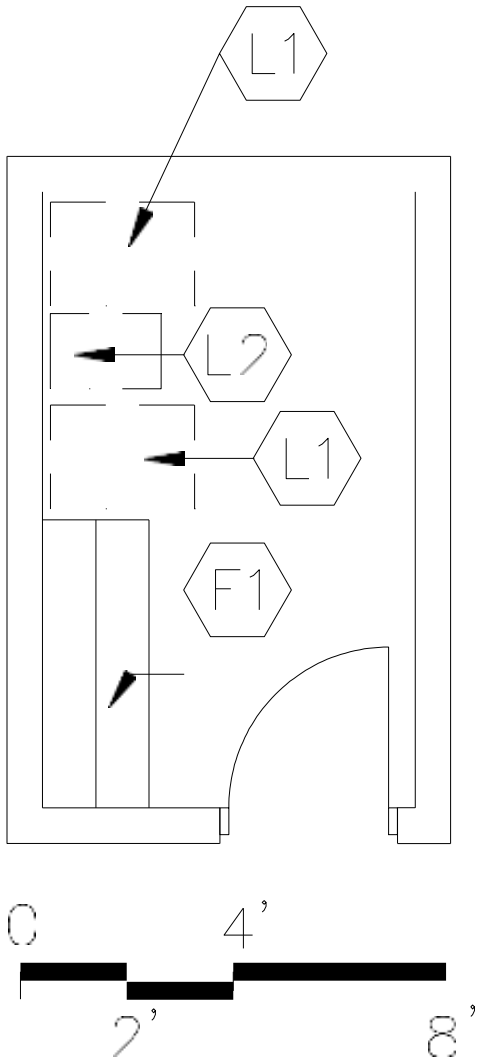
LOOSE FURNISHINGS:
L1 File cabinets

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 10'-20' of open shelving, depth may vary ***(optional – or additional files)***	123550
Option: mobile storage shelving	105626
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
To be determined by Design Professional	
Supplemental heat as required	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***5***	
1 duplex receptacle	262726
Communications:	
N/A	
Electronic Safety and Security:	
N/A	
Miscellaneous:	
N/A	

NOTES:

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

80 SF



CAPACITY: N/A
SIZE: ***80 - 115*** 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

NOTES:

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

VAULT/RECORDS STORAGE
M-AD-8

FINISHES[1]:	Spec. Ref.#
Flooring:	
Rubber***, carpet, carpet tile, linoleum, ET or sheet vinyl***	096500 ***096813*** ***096816*** ***096516***
Base:	
Resilient base	096500
Ceiling:	
Rated 2-hour construction	---
Walls:	
Rated 2-hour construction	
Painted concrete masonry units or	042000/099100
Painted gypsum wallboard over metal studs	092116/099100

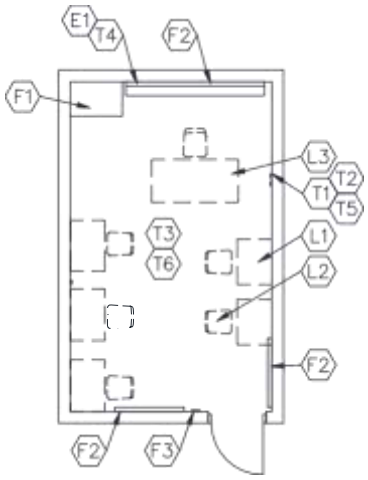
LOOSE FURNISHINGS:
L1 File cabinet***s***
L2 Safe (loose or fixed)

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 3'-6' of open shelving, ***(optional – or additional files)*** (depth may vary) (fixed or loose)	123550
Option: mobile storage shelving	105626
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
To be determined by Design Professional	
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***5***	
1 duplex receptacle	262726
Communications:	
N/A	
Electronic Safety and Security:	
N/A	
Miscellaneous:	
Wall, ceiling, and door construction to have a 2-hour fire rating	

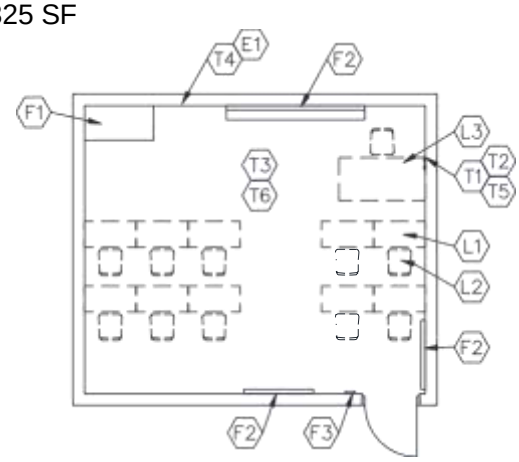
NOTES:

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

200 SF



325 SF



CAPACITY: 5 - 8 students
SIZE: 200 - 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
M-AD-9

FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet, carpet tile, ET, linoleum, rubber, or sheet vinyl	096816 096500 096516 096813
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Paint	
092113	

LOOSE FURNISHINGS:

L1 Student carrels and/or desks
L2 Student chairs
L3 Teacher workstation and chair
L4 Reserved
Wastebasket

Electronic Safety and Security:	
Life safety devices per code	283111

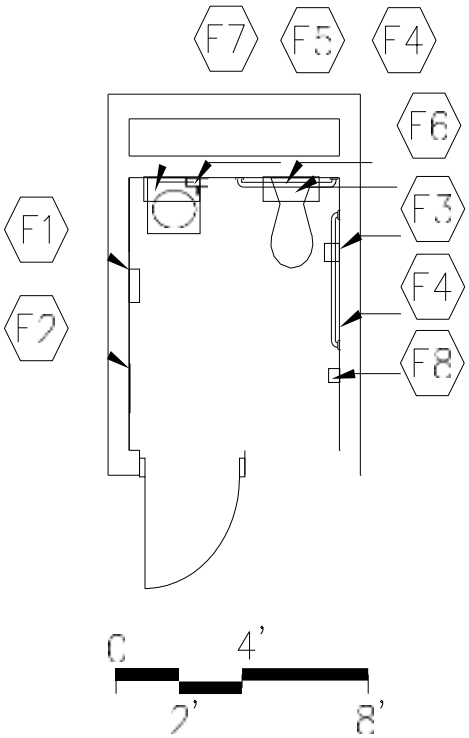
E1 Duplex receptacle with dedicated circuit for wireless devices

Miscellaneous:
Pencil sharpener (optional)

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 3'-4' of base cabinets (optional)	123550
F2 10'-16' combination marker board, tackboard or tackable wall surface	101100
F3 Pencil sharpener support (optional)	062000
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Electrical:	
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
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

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.



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

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

NOTES:

RESTROOM
M-AD-10

FINISHES[1]:	Spec. Ref.#
Flooring:	
ET or sheet vinyl	096500
Optional: ceramic mosaic tile,	093000
porcelain tile, or	096723
resinous flooring	
Base:	
Resilient base	096500
Optional: ceramic mosaic tile,	093000
porcelain tile, resinous flooring,	096723
or integral vinyl cove base	
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100
Optional: moisture & abuse-resistant gypsum wall board	092116/099100

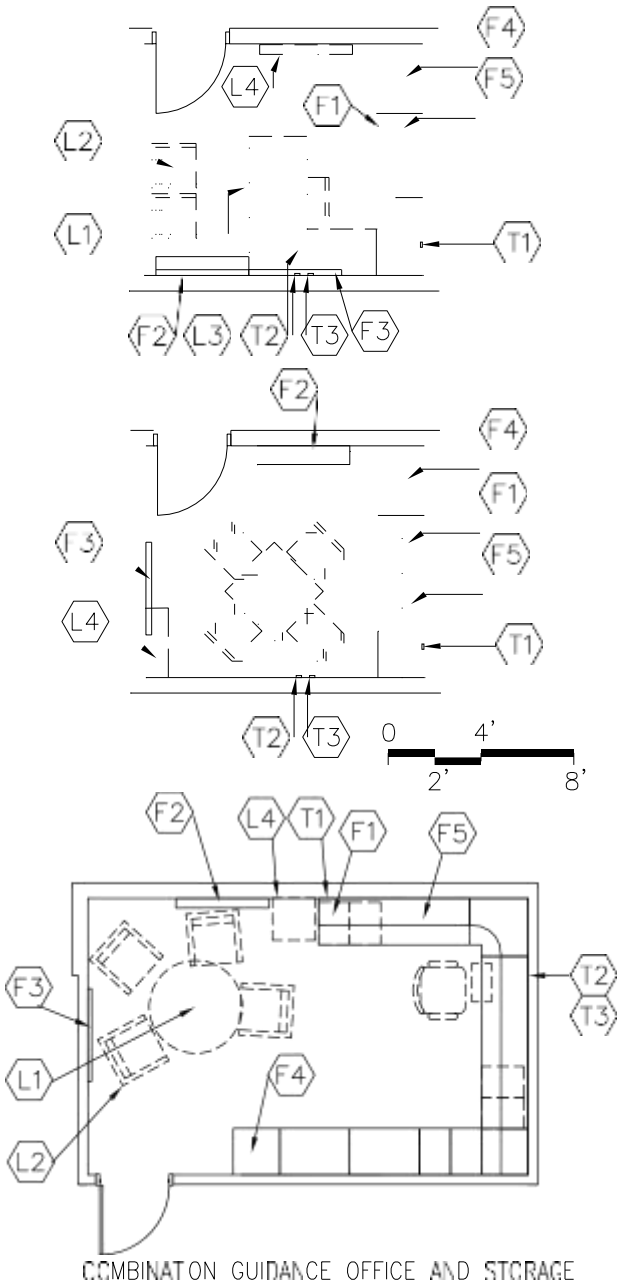
LOOSE FURNISHINGS:
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Towel dispenser	102813
F2 24" x 60" mirror	102813
F3 Toilet tissue holder	102813
F4 36" and 42" grab bar	102813
F5 Soap dispenser	102813
F6 8” deep wall cabinet above toilet for supplies (optional)	102813 F7
Stainless steel shelf (optional)	102813 F8
Coat hook	102813
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Wall-mounted water closet	224000
Wall-mounted lavatory	224000
Plumbing connections	224000/221116/221119
HVAC:	
Exhaust air system	Div. 23
Supplemental heat as required	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***5***	
1 duplex receptacle	262726
Communications:	
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

NOTES:

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

GUIDANCE COUNSELOR'S OFFICE
M-AD-11



CAPACITY: 1 - 3 persons
SIZE: 120 SF

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

NOTES:

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

GUIDANCE COUNSELOR'S OFFICE
M-AD-11

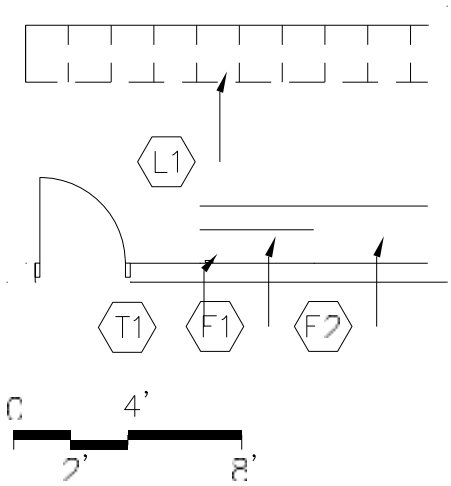
FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet or Carpet Tile	096816
	096813
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted gypsum wallboard over metal studs	092116/099100

LOOSE FURNISHINGS:
L1 Desk or table, with chair
L2 Visitor chairs
L3 Computer desk return
L4 Bookcase (fixed or loose)
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Work surface with file drawers	123550
F2 4'-8' combination marker board, tack board or tackable wall surface	101100
F3 Reserved	
F4 Tall wardrobe	123550
F5 Wall cabinets	123550
Coat hook (optional)	
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
Electrical:	
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
Communications:	
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
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
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.



CAPACITY: N/A
SIZE: 100 SF

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

NOTES:

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

GUIDANCE RECORDS/STORAGE
M-AD-12

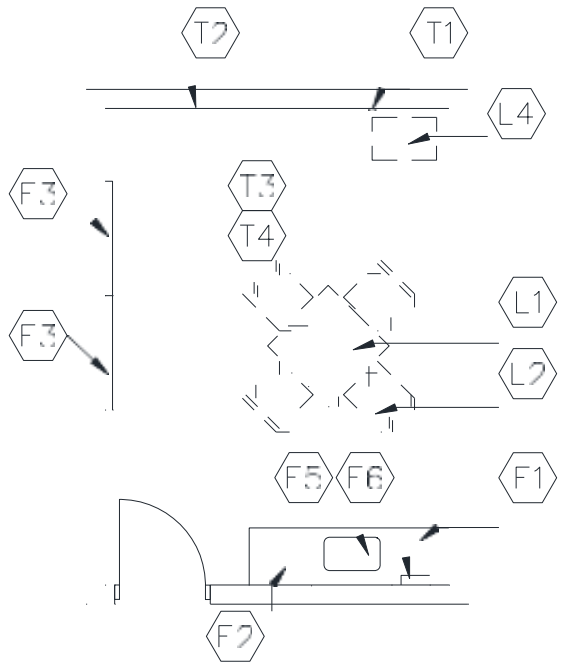
FINISHES[1]:	Spec. Ref.#
Flooring:	
Rubber***, carpet, carpet tile, linoleum, ET, or sheet vinyl***	096500 ***096813 096816 096516***
Base:	
Resilient base	096500
Ceiling:	
Rated 2-hour construction	---
Walls:	
Rated 2-hour construction	
Painted gypsum wallboard over metal studs or	092116/099100
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:
L1 File cabinets

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 ***6'-10' combination tall cabinets, base or wall cabinets (or additional file cabinets)***	123550
Option: mobile storage shelving	105626
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
To be determined by Design Professional	
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***5***	
1 duplex receptacle	262726
Communications:	
T1 1 data port (optional)	271513
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
Wall, ceiling, and door construction to have a 2-hour fire rating	

NOTES:

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



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

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

NOTES:

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

PARENT/VOLUNTEER ROOM
M-AD-13

FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet or Carpet Tile	096816 096813
Optional: ET, linoleum, or sheet vinyl	096500 096516
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted gypsum wallboard over metal studs	092116/099100

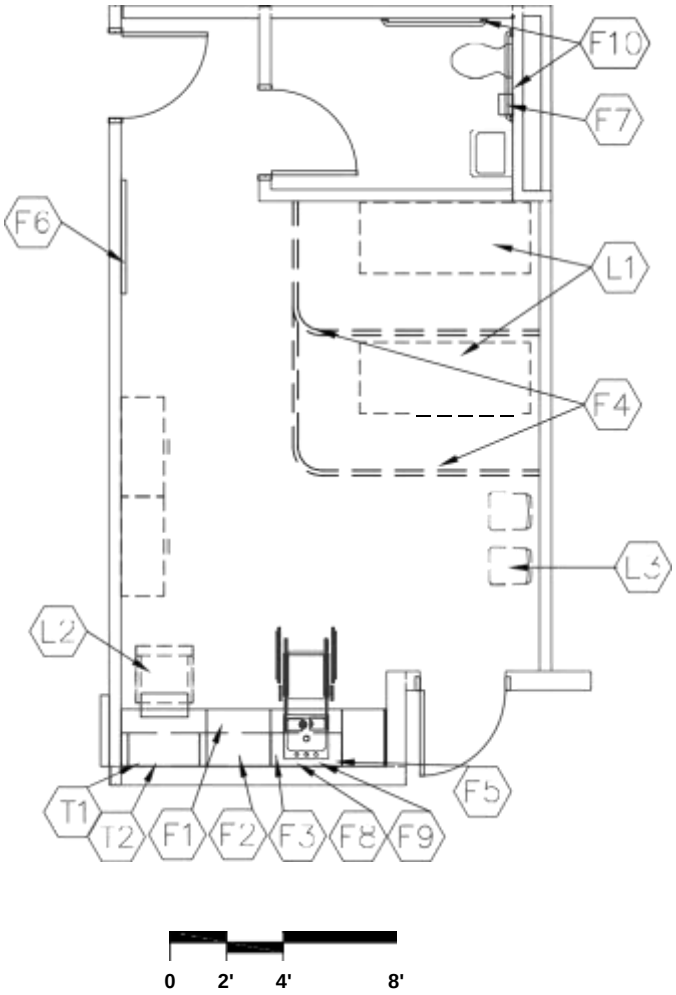
LOOSE FURNISHINGS:
L1 Table
L2 Chairs
L3 Reserved
L4 Monitor cart
Wastebasket

Miscellaneous:
N/A

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 About 3' of base cabinets	123550
F2 Tall wardrobe	123550
F3 8'-12' combination marker board, tack board or tackable wall surface	101100
F4 Reserved	
F5 3' Sink base cabinet	123550
F6 Towel dispenser	102813
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Sink	224000
Plumbing connections	224000/221116/221119
HVAC:	
Supply/return air system	Div. 23
Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
Electrical:	
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
Communications:	
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	***27153***
Clock	275313
Central sound system	275123
Electronic Safety and Security:	
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.***

450 SF



CAPACITY: 2 - 3 patients
SIZE: Clinic…….***290 - 540*** SF
Restroom…..……60 SF
ANCILLARY SPACES: Secretarial Area M-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)*
M-AD-14

FINISHES[1]:	Spec. Ref.#
Flooring:	
Linoleum, rubber, ET	096516
vinyl, or	096500
resinous flooring	096723
Restroom: ET, sheet vinyl, ceramic mosaic, porcelain or resinous flooring	093000
Base:	
Resilient base, resinous flooring,	096500
or integral vinyl cover base, ceramic	096730
mosaic or porcelain tile	093000
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted gypsum wallboard over metal studs	092116/099100

LOOSE FURNISHINGS:
L1 Cots
L2 Desk and chair
L3 Chairs
Wastebasket

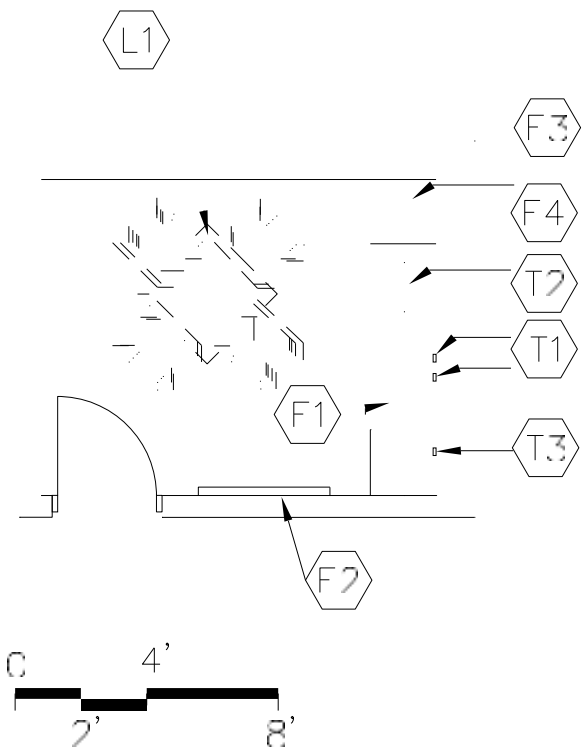
EQUIPMENT
E1 Refrigerator with ice making capabilities

Miscellaneous:
N/A

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 8'-10' combination base & wall cabinets, lockable	123550
F2 3' sink base cabinet	123550
F3 Reserved	
F4 Cubicle curtain and track	102123
F5 Towel dispenser	102813
F6 4' of tack board or marker board	101100
F7 Sanitary napkin dispenser/disposal	102813
F8 Soap dispenser	102813
F9 24" x 60" mirror	102813
F10 36" and 42" grab bars	102813
Coat hooks (optional)	
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Wall-mounted water closet	224000
Wall-mounted lavatory	224000
Sink - with goose neck	224000
Plumbing connections	224000/221116/221119
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Exhaust directly to exterior	
Electrical:	
Single level switching with dimmer	262726
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
Communications:	
T1 1 voice port and phone	271513/273123
T2 1 data port near workstation	271523
Clock	275313
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	283111

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

ITINERANT PERSONNEL OFFICE
M-AD-15



APACITY: 1 - 3 persons
SIZE: 120 SF

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

NOTES:

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

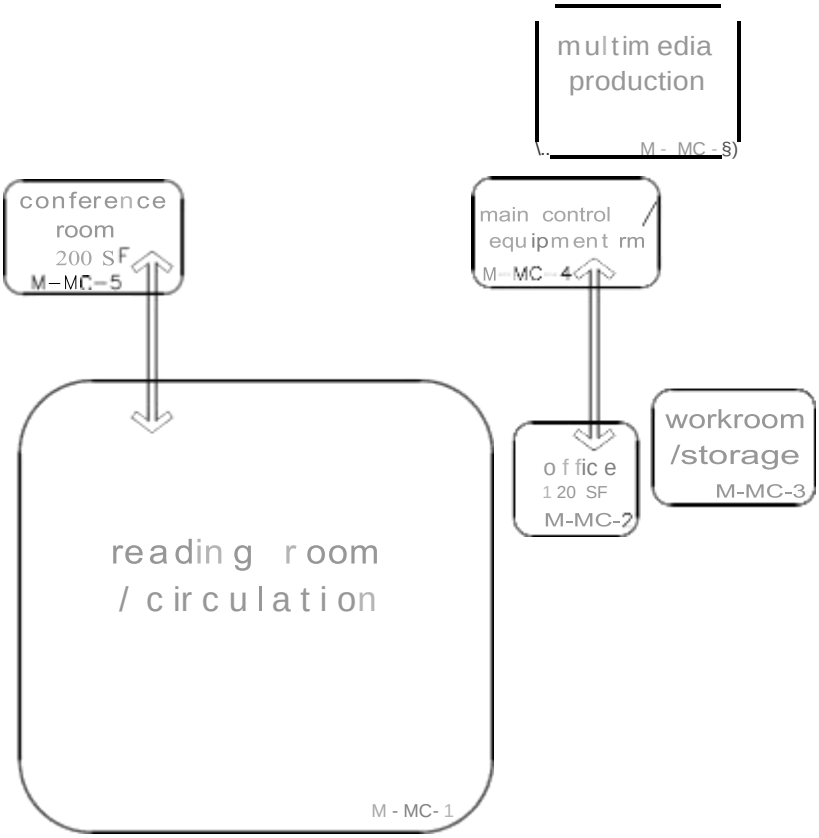
ITINERANT PERSONNEL OFFICE
M-AD-15

FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet or Carpet Tile	096816
	096813
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted gypsum wallboard over metal studs	092116/099100

LOOSE FURNISHINGS:
L1 Table and chairs
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Work surface with file drawers(optional)	123550
F2 4' of tack board, marker board, or tackable wall surface	101100
F3 Tall wardrobe (optional)	123550
F4 Wall cabinets	123550
Coat hook (optional)	
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
Electrical:	
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
Communications:	
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
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
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 a middle 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:

M-MC-1 Reading Room/Circulation M-MC-2 Media Specialist Office
M-MC-3 Workroom/Storage
M-MC-4 Main Control / Equipment Room
M-MC-***5*** Conference Room
M-MC-***6*** Multimedia Production Room

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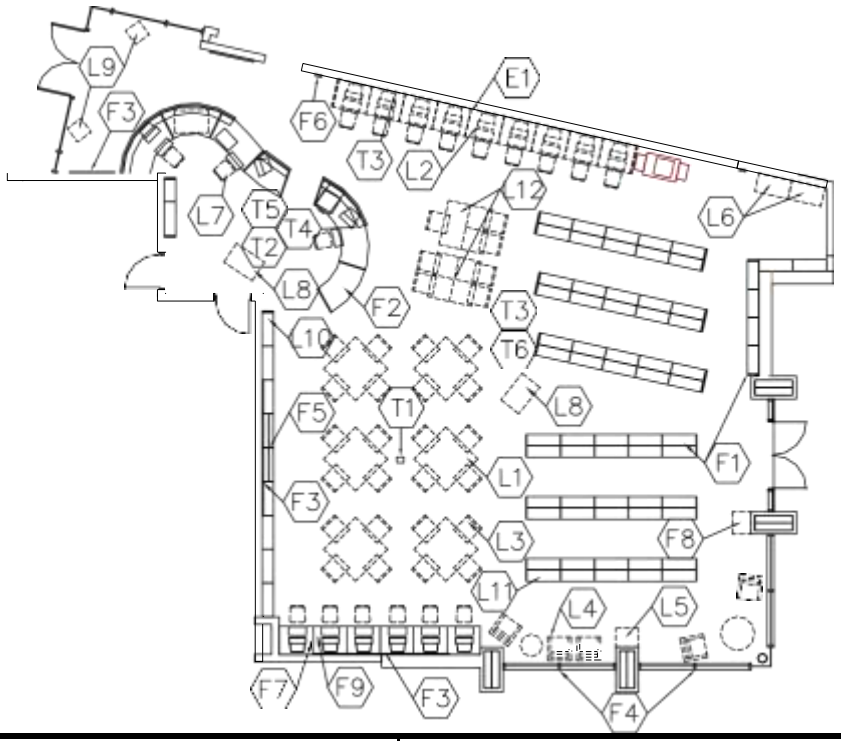


PROGRAM ACTIVITIES:

- Information laboratory that serves the instructional needs of the entire school.
- Recreational reading, research, accessing information, using technology, storing, cataloging, and reproduction of materials and information.
- Individual, small group, and class reading and researching.

SPATIAL RELATIONSHIPS:

- Centrally located and accessible to all areas of the facility
- Locate with access to academic core classrooms
- Easy access to public parking

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
  wall only minimum STC 45
  ceiling minimum CAC 35, NRC 0.70
- Visual awareness of space to students and staff through transparency to corridor

CAPACITY: 10% of student capacity
SIZE: 10% of student capacity multiplied by 35 SF per student

NOTES:

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

READING ROOM/CIRCULATION
M-MC-1

FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet or Carpet Tile	096816 096813
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100
Acoustical wall treatment	098000

LOOSE FURNISHINGS:
L1 Student tables
L2 Computer workstation furniture
L3 Student chairs
L4 Casual seating/tables
L5 Atlas stand/dictionary stand (optional)
L6 Lateral file
L7 Circulation desk task chair
L8 Mobile book carts
L9 Paperback book racks
L10 Magazine display
L11 Newspaper rack
L12 Study carrels
Wastebaskets

Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
Interior windows	081113/088000
Pencil sharpener (optional)	

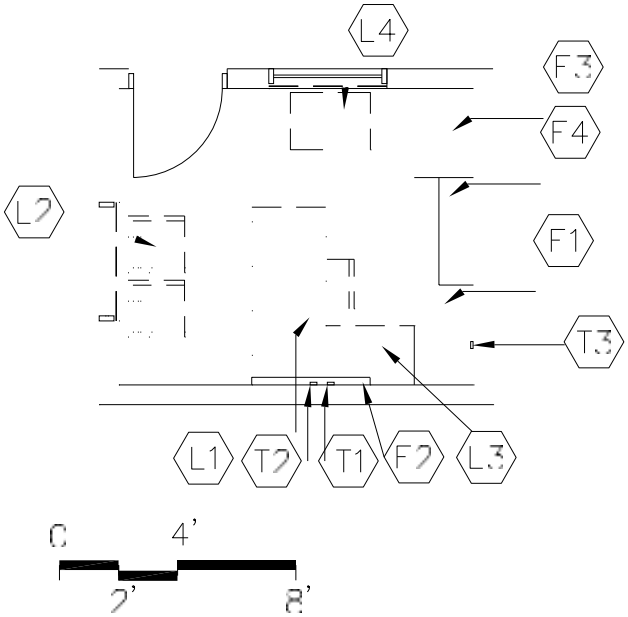
E1 Duplex receptacle with dedicated circuit for wireless devices

FEATURES[1]:		Spec. Ref.#
Fixed Items:		
F1	Library book shelving (see notes)	115123
F2	Circulation desk casework	123550
F3	20'-32' of tack board, marker board or tackable wall surface (optional)	101100
F4	Windows with integral blinds	085113
F5	Projection screen (optional)	115213
F6	Pencil sharpener support (optional)	062000
F7	Computer workstations (could be loose)	123550
F8	Search terminal stations	123550
F9	Technology support casework	123550
Fire Suppression:		
	Fire suppression system	211000
Plumbing:		
	N/A	
HVAC:		
	Supply/return air system	Div. 23
	Independent temp control	230923
Electrical:		
	Multi-level switching	262726
	Fluorescent lighting Illumination level: See Table 8600-5	265100
	8 duplex receptacles (minimum)	262726
	Double duplex receptacle adjacent to each data and video port	262726
	Emergency lighting per code	265100
	Means of egress lighting per code	265100
Communications:		
T1	1 ***projector*** video port and video display device	271543/274119
T2	1 voice port and phone	271513/273123
T3	***Wireless access point cable above ceiling***	271513
T4	1 data port for media center automation system	271513
	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 6***	***272133***

NOTES:

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

MEDIA SPECIALIST OFFICE
M-MC-2



CAPACITY: 1 - 3 persons
SIZE: 120 SF

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

NOTES:

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

MEDIA SPECIALIST OFFICE
M-MC-2

FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet or Carpet Tile	096816
	096813
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

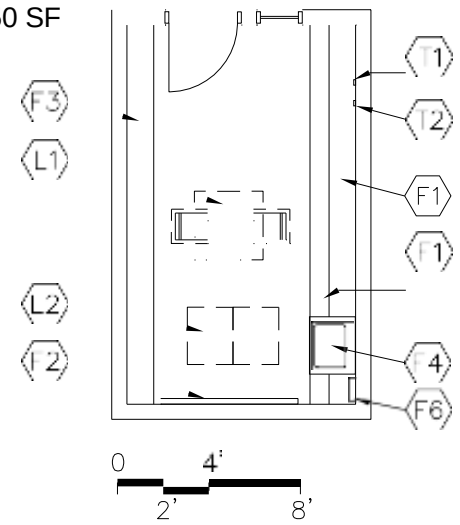
LOOSE FURNISHINGS:
L1 Desk and chair
L2 Visitor chairs
L3 Computer desk return
L4 File cabinet
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Work surface with file drawers	123550
F2 4' of tack board, marker board, or tackable wall surface	101100
F3 Tall wardrobe (optional)	123550
F4 Wall cabinets (optional)	123550
F5 Bookcases (optional)	123550
Coat hook (optional)	
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
Electrical:	
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
Communications:	
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
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
Interior window	081113/088000

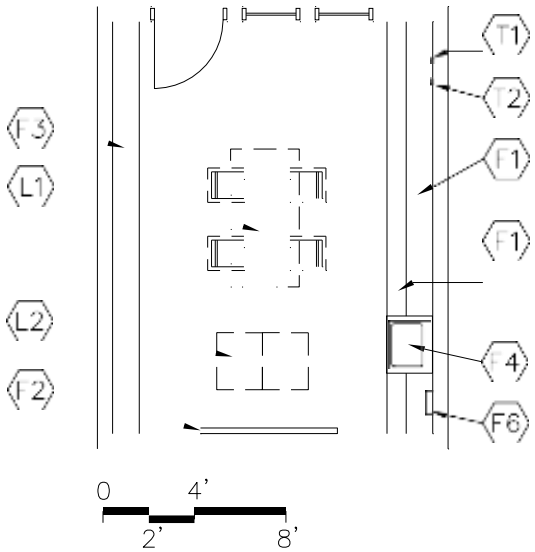
NOTES:

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.

150 SF



250 SF



CAPACITY: 1 - 3 staff
SIZE: 150 - ***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
M-MC-3

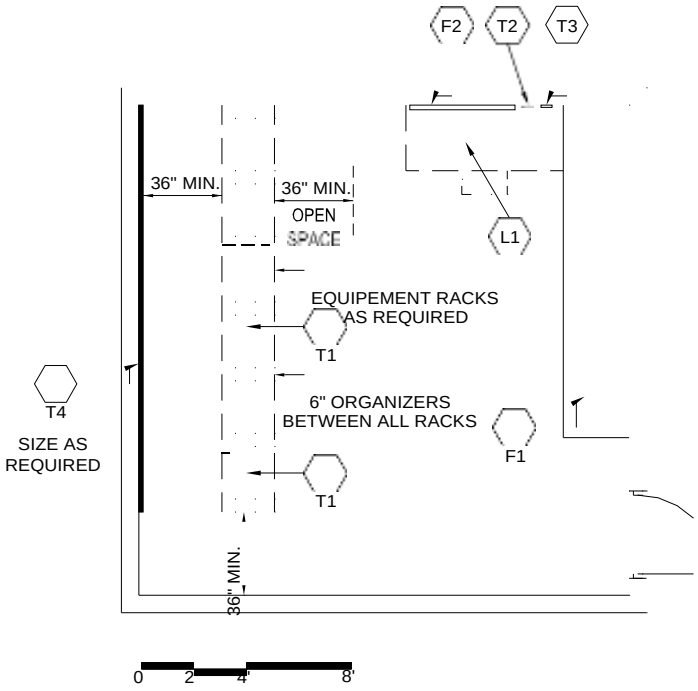
FINISHES[1]:	Spec. Ref.#
Flooring:	
Rubber***, linoleum, ET or sheet vinyl***	096500
Optional: Carpet or carpet tile	***096516***
	096813
	096816
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:
L1 Table and chairs
L2 Book trucks
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items[2]:	
F1 ***20'-34' combination base/wall/tall 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
F5 ***Reserved***	
F6 Towel dispenser	102813
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Sink	224000
Plumbing connections	224000/221116/221119
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Electrical:	
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
Communications:	
T1 1 voice port and phone	271513/***273123***
T2 1 data port	271513
Clock	275313
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
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

M-MC-4 (ER)

FINISHES[1]:	Spec. Ref.#
Flooring:	
ET or sheet vinyl (static dissipative flooring)	096500
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:

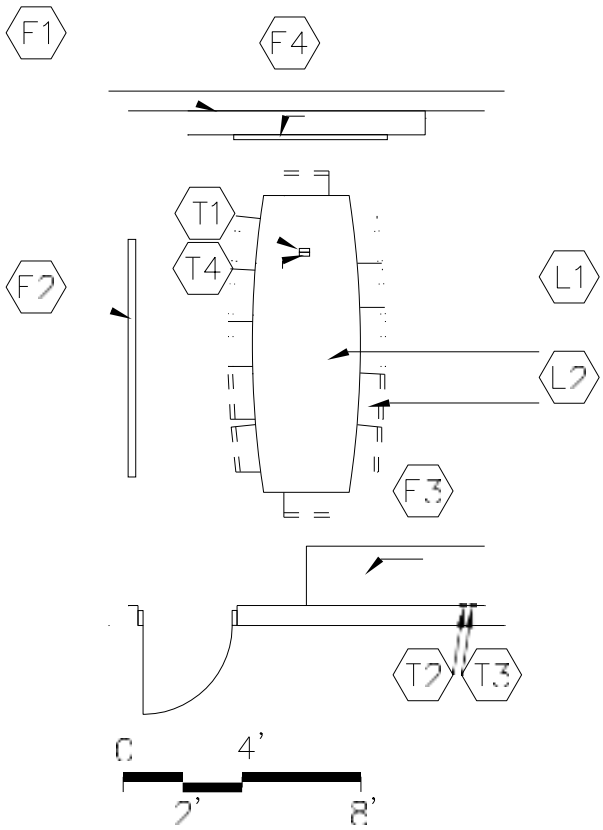
L1 Desk and chair

Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 8'-16' of open shelving, depths may vary (fixed or loose)	123550
F2 4' of tack board or marker board (optional)	101100
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Independent, packaged system	Div. 23
Electrical:	
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
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	272100/272133
Grounding & Infrastructure Equipment	270526/271100
T2 1 voice port and phone	271513/273123
T3 1 data port near workstation	271513
T4 ***3/4***" plywood back board	271313
Electrical Safety and Security:	
Life safety devices per code	283111
Security system	281300/281600/282300
Miscellaneous:	
Provide distribution equipment with an equipment electrical ground.	

NOTES:

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



CAPACITY: 8 - 12 persons
SIZE: ***200 - 310 SF***

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
- Optional – window with integral blind

NOTES:

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

CONFERENCE ROOM
M-MC-*5*

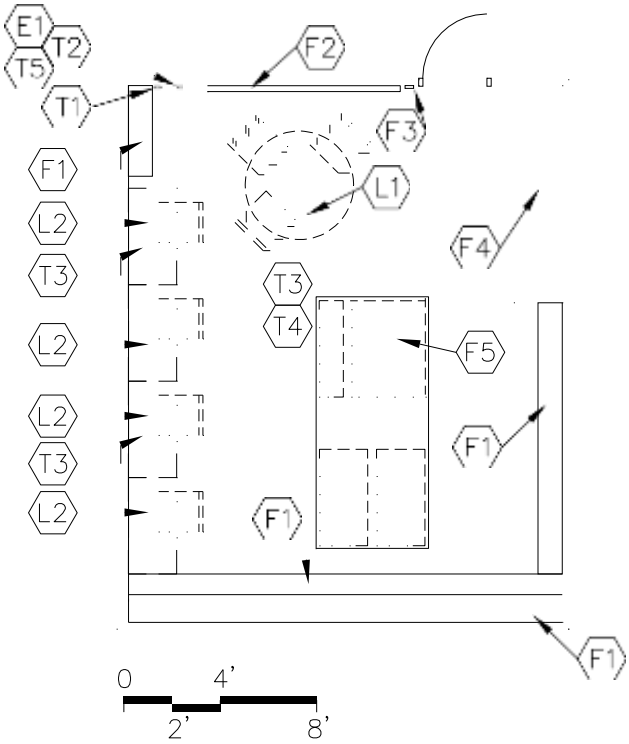
FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet or Carpet Tile	096816 096813
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:
L1 Conference table
L2 Chairs
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 14'-18' combination marker board, tack board, and tackable wall surface	101100
F2 Reserved	
F3 Base cabinets (optional) (fixed or mobile)	123550
F4 Projection screen (optional)	115213
Coat hooks (optional)	
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Electrical:	
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
Communications:	
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
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

NOTES:

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



CAPACITY: 2 - 7 persons
SIZE: 400 SF
ANCILLARY SPACES:

PROGRAM ACTIVITIES:
- Production of a variety of media
- Individual student project work and student instruction
- Putting together student project presentations in media such as PowerPoint, video, reports, 3D models, etc.

SPATIAL RELATIONSHIPS:
- Near workroom/storage
- Near media center

ENVIRONMENTAL CONSIDERATIONS:
- Environmental sound control –
  wall only minimum STC 45
  ceiling minimum CAC 35, NRC 0.70

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.
2. This space could be an area inside the media center.

MULTIMEDIA PRODUCTION ROOM
M-MC-*6*

FINISHES[1]:	Spec. Ref.#
Flooring:	
Linoleum, ET, sheet vinyl,	096516
or rubber	096500
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:
L1 Tables and chairs/stools
L2 Computer workstation furniture
Wastebasket

Electronic Safety and Security:	
Life safety devices per code	283111

Miscellaneous:
Pencil sharpener (optional)
Interior windows for supervision (optional) 081113/088000
The following items to be provided by the school district: copier, scanner, printers, binders, and laminators.

E1 Duplex receptacle with dedicated circuit for wireless devices

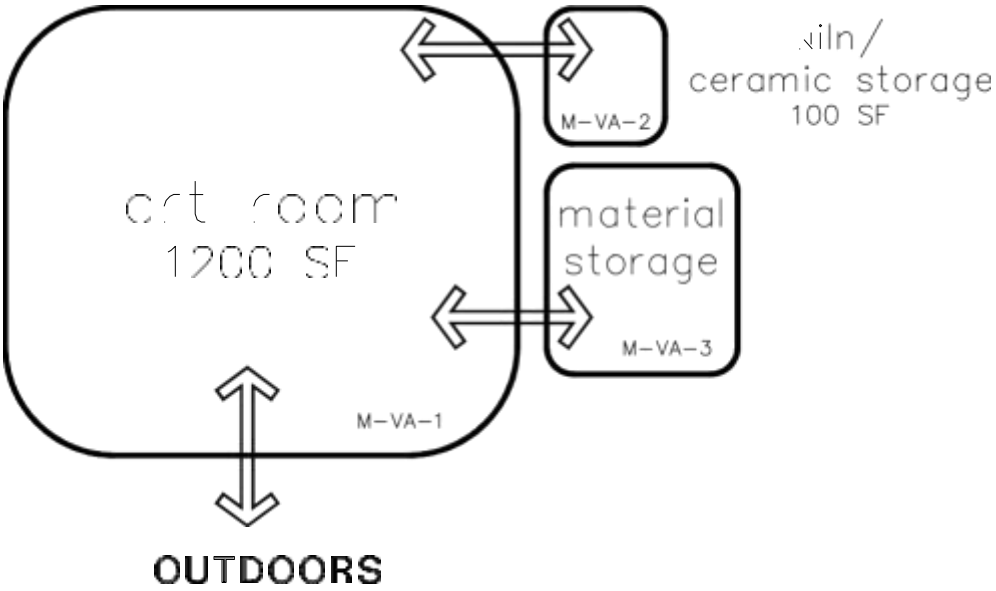
FEATURES[1]:	Spec. Ref.#
Fixed Items[3]:	
F1 15'-35' combination tall cabinets, wall and base cabinets	123550
F2 4'-8' of combination tack board/ marker board	101100
F3 Pencil sharpener support (optional)	062000
F4 3' - 9' of tall cabinets	123550
F5 Work surface	123550
F6 Technology support casework (if applicable)	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Electrical:	
Multilevel 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

Communications:

T1 1 ***projector*** video port and video display device	271543/274119
T2 1 voice port and phone	271513/273123
T3 ***Wireless access point cable above ceiling***	271513
Clock	275313
Central sound system	275123
T4 Wireless access point (WAP) as determined by Design – refer to Note 3	***272133***
T5 Classroom technology center video port	***271543, 274116, 274119, 275127***

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Ranges shown indicate quantities for the smallest and largest possible room size.
3. ***Baseline includes WAP cable. WAP device quantity / placement per 272133 requirements.***



NOTE:

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

Following are the Visual Art space plates:

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

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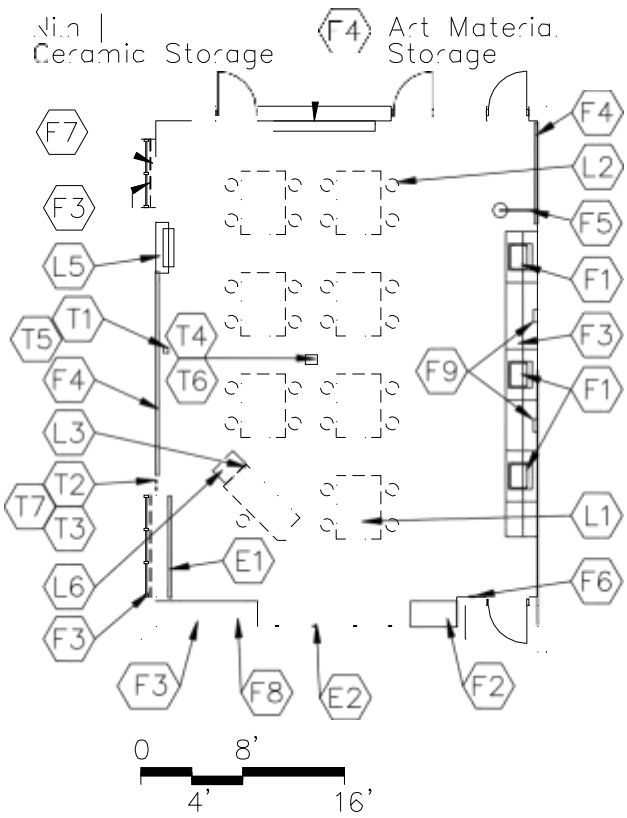


CAPACITY: 28 students
SIZE: 1,200 SF
ANCILLARY SPACES: Kiln/Ceramic Storage M-VA-2
Art Material Storage M-VA-3

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 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
M-VA-1

FINISHES[1]:	Spec. Ref.#
Flooring:	
ET, sheet vinyl, rubber,	096500
sealed concrete,	033000
polished concrete finishing, or	033510
colored concrete finishing	033519
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Paint	
099100	

LOOSE FURNISHINGS:
L1 Student work tables
L2 Student chairs or stools
L3 Teacher desk and chair/stool and teacher computer support
L4 Reserved
L5 Desk height file cabinet
Wastebasket

EQUIPMENT:
E1 Drying rack

Electronic Safety and Security:	
Life safety devices per code	283111

Miscellaneous:
Pencil sharpener (optional)

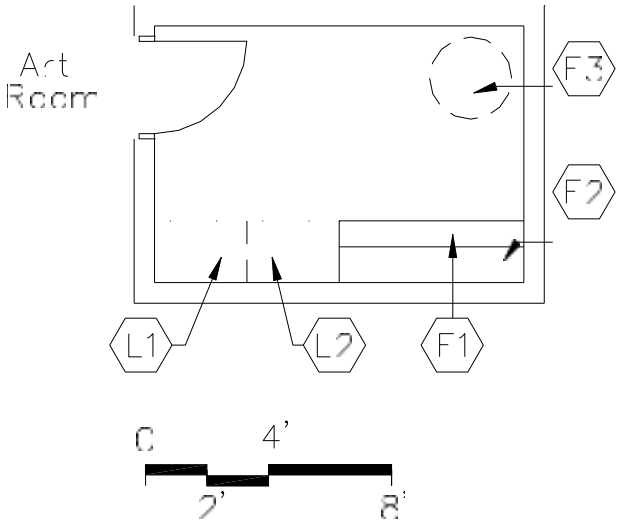
E2 Duplex receptacle with dedicated circuit for wireless devices

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 3'-5'sink base cabinets, or several wash fountains	123550
F2 Tall wardrobe with file drawers	123550
F3 26'-34' combination tall cabinets, base and wall cabinets	123550
F4 26'-34' combination marker board, tack board & tackable wall surface	101100
F5 Emergency eyewash (recommended)	224000
F6 Pencil sharpener support(optional)	062000
F7 Windows with integral blinds	085113
F8 Technology support casework	123550
F9 Towel dispenser (optional)	102813
F10 Projection screen (optional)	115213
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Sinks with solids interceptor	224000
Emergency eyewash connections	224500
Plumbing connections	224000/221116/221119
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Manually controlled general exhaust	Div. 23
Electrical:	
Fluorescent lighting Illumination level: See Table 8600-5	265100
Multilevel switching	262726
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 videoport	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
M-VA-2



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 M-VA-1

NOTES:

KILN/CERAMIC STORAGE
M-VA-2

FINISHES[1]:	Spec. Ref.#
Flooring:	
Sealed concrete,	***033000***
polished concrete finishing, or	033510
colored concrete finishing	033519
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:
L1 3' of tall dry storage units (total)
L2 3' of tall damp storage units (total)

L1 and L2 could be fixed casework.

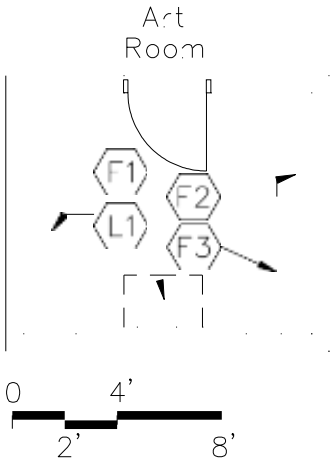
FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 3'-6' of base cabinets	123550
F2 3'-6' of wall cabinets	123550
F3 Kiln	119200
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Temperature controlled exhaust	Div. 23
Ventilation for kiln	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***5***	
1 duplex receptacle	262726
Electrical connection for kiln	262726
Communications:	
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

NOTES:

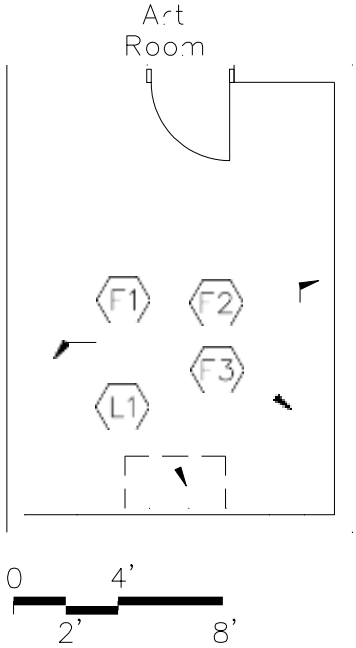
1. Finishes/Features: Refer to Chapter 9 for specification references.

ART MATERIAL STORAGE
M-VA-3

100 SF



200 SF



CAPACITY:	N/A
SIZE:	100 - 200 SF
ANCILLARY SPACES:	Art Room M-VA-1

PROGRAM ACTIVITIES:
- Storage of art supplies and materials

SPATIAL RELATIONSHIPS:
- Adjacent to art room

ENVIRONMENTAL CONSIDERATIONS:
- Stain-resistant floor covering

NOTES:

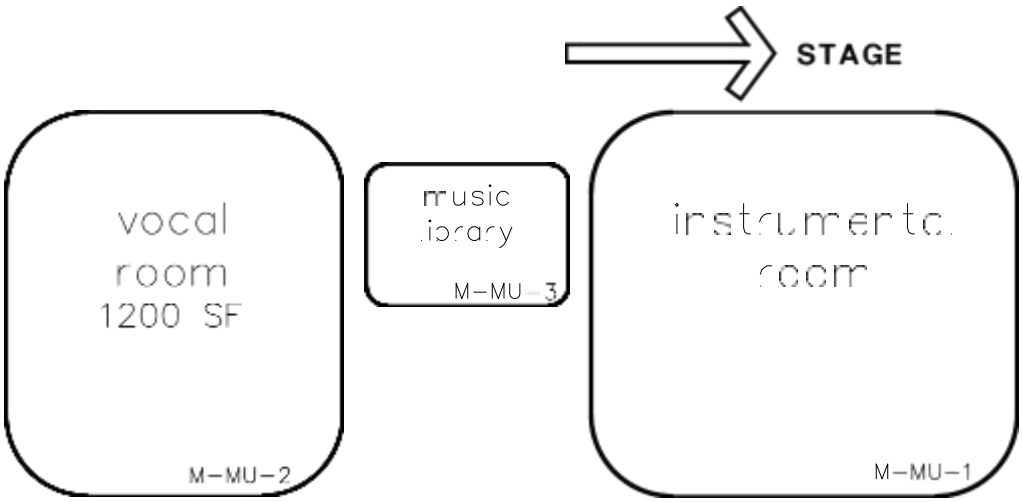
ART MATERIAL STORAGE
M-VA-3

FINISHES[1]:	Spec. Ref.#
Flooring:	
ET, sheet vinyl,	096500
sealed concrete,	***033000***
polished concrete finishing, or	033510
colored concrete finishing	033519
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:
L1 Mobile materials cart

FEATURES[1]:	Spec. Ref.#
Fixed Items[2]:	
F1 ***16'-28' combination base/wall or tall storage***	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Exhaust air system	Div. 23
Supplemental heat as required	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
Duplex receptacle above base cabinet	262726
Communications:	
N/A	
Electronic Safety and Security:	
N/A	
Miscellaneous:	
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 a middle school could be arranged. This is meant only to demonstrate the relationships between various spaces of this area.

Following are the Music space plates:

M-MU-1 Instrumental Room
M-MU-2 Vocal Room
M-MU-3 Music Library

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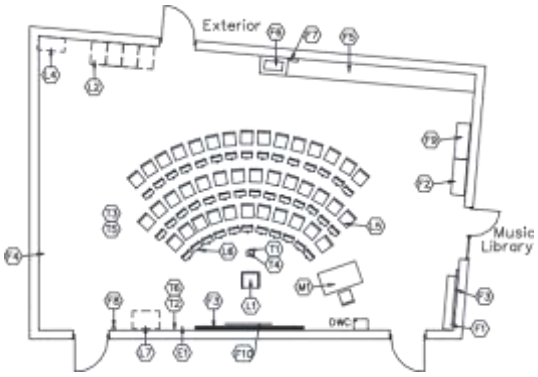
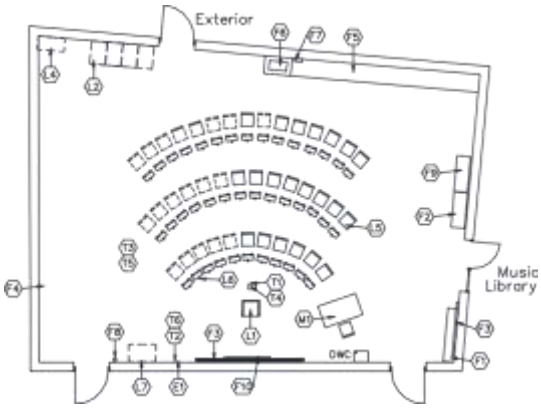
1400 SF



1600 SF



CAPACITY: District to dictate program
SIZE: 1,400 - 1,600 SF
ANCILLARY SPACES: Music Library
M-MU-3

PROGRAM ACTIVITIES:

- House all of the instrumental music activities
- Practice area for individuals, small groups, class-size groups, and the entire school band
- Practice and performance type presentations
- Storage of band instruments

SPATIAL RELATIONSHIPS:

- Grouped with other noise producing activities
- Access to parking
- Direct access to outdoors
- Near vocal room
- Near the stage in the student dining area

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
  wall minimum STC 60
  ceiling minimum CAC 35, NRC 0.70
- Large doors
- Ceiling heights: preferred 12'-16'
  (12' minimum)
- Acoustical requirements as determined by final configuration and other factors of the space.

NOTES:

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

INSTRUMENTAL ROOM
M-MU-1

FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet, carpet tile	096816
Optional: linoleum, rubber, ET, sheet vinyl	096516
	096500
	096813
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Paint	
099100	
Acoustical wall treatment (varies with geometry of room)	098000
Absorptive 25%, reflective 25%, diffusive 50%	

LOOSE FURNISHINGS:
L1 Conducting podium
L2 Mobile percussion instrument storage cabinet
L3 Reserved
L4 Mobile sheet music cabinet
L5 Music chairs
L6 Music stands
L7 Teacher workstation
Wastebasket

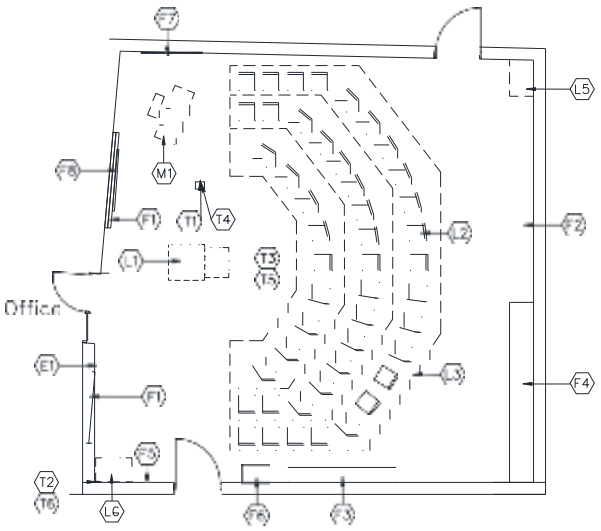
Electronic Safety and Security:
Life safety devices per code 283111

Miscellaneous:
Doors are to have acoustic trim accessories.
Pencil sharpener (optional)
The following item is to be funded by the school district:
M1 Piano

E1 Duplex receptacle with dedicated circuit for wireless devices

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 4'-8' of bookshelves (or loose)	123550
F2 About 4' of tall cabinets	123550
F3 12'-28' combination marker board, tackboard and tackable wall surface	101100
F4 Technology support casework	123550
F5 Instrument storage cabinets	123550
F6 3' sink base cabinet	
F7 Towel dispenser	102810
F8 Pencil sharpener support (optional)	062000
F9 Stereo cabinet (optional)	123550
F10 Projection screen (optional)	115213
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Drinking water cooler	224000
Sink	224000
Plumbing connections	224000/221116/221119
HVAC:	
Supply/return air system	Div. 23
Independent temp 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
Emergency lighting	265100
Telecommunications Grounding	270526/260526
Communications:	
T1 1 projector video port	271543
T2 1 voice port and phone	271513/273123 T3
Wireless access point cable above ceiling	271513
Clock	275313
Middle School music sound system	275125
Central sound system	275123
T4 Ultra-short throw interactive projector	274119
T5 Wireless access point (WAP) as determined by Design – refer to Note 3	272133
T6 Classroom technology center video port	271543, 274116, 274119, 275127

NOTES:
1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Sink and cabinet could be in instrument storage room.
3. Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.



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CAPACITY: 40 students
SIZE: 1,200 SF
ANCILLARY SPACES: Music Library M-MU-3

PROGRAM ACTIVITIES:

- Houses all of the vocal music activities
- Practice area for individuals and groups of students, as well as an instructional area
- Serves the general music activities

SPATIAL RELATIONSHIPS:

- Grouped with other noise producing type activities
- Near instrumental room
- Access to parking area
- Near the stage

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
  wall minimum STC 60
  ceiling minimum CAC 35, NRC 0.70
- Large doors
- High ceilings
- Acoustical requirements as determined by final configuration and other factors of the space.

NOTES:

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

VOCAL ROOM
M-MU-2

FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet, carpet tile,	096816
linoleum, ET, sheet vinyl,	096516
or rubber	096500
	096813
(Determined by district program needs)	
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Paint	
099100	
Acoustical wall treatment (varies with geometry of room)	098000

LOOSE FURNISHINGS:
L1 Conducting podium
L2 Music chairs and caddies
L3 Portable risers
L4 Reserved
L5 Mobile music storage cabinet
L6 Teacher computer workstation
Wastebasket

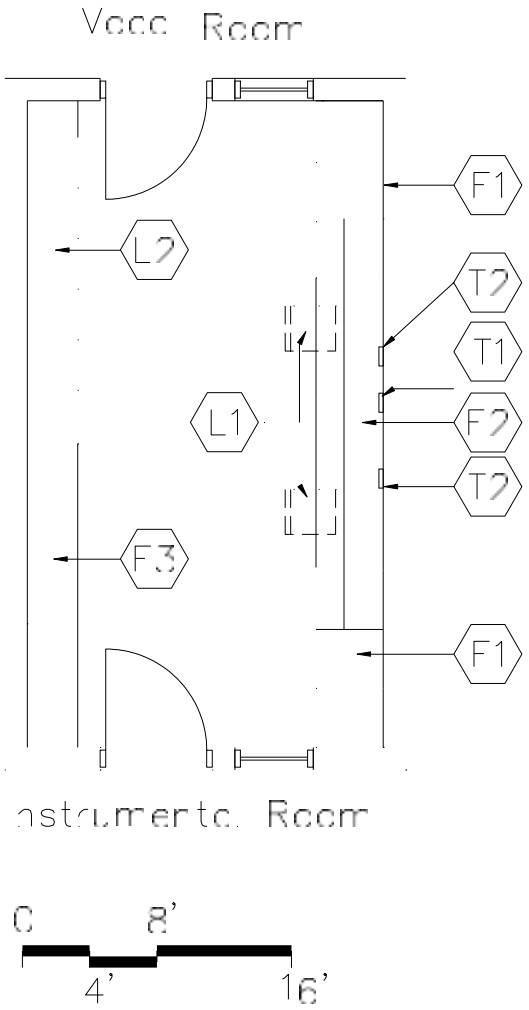
Electronic Safety and Security:	
Life safety devices per code	283111

Miscellaneous:
Doors are to have acoustic trim accessories.
Pencil sharpener (optional)
The following item is to be funded by the school district:
M1 Piano

E1 Duplex receptacle with dedicated circuit for wireless devices

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 12'-28' combination marker board, tack board, tackable wall surface	101100
F2 Technology support casework	123550
F3 4'-9' of bookcases (or loose)	123550
F4 3'-10' of tall cabinets	123550
F5 Pencil sharpener support (optional)	062000
F6 Stereo cabinet (optional)	123550
F7 Mirrors on wall (optional)	102813
F8 Projection screen (optional)	115213
Fire Suppression:	
Fire suppression system	211000
Plumbing: N/A	
HVAC:	
Supply/return air system	Div. 23
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
Means of egress lighting per code	265100
Emergency lighting per code	265100
Telecommunications Grounding	270526/260526
Communications:	
T1 1 projector video port	271543
T2 1 voice port and phone	271513/273123 T3
Wireless access point cable above ceiling	271513
Clock	275313
Middle School music sound system	275125
Central sound system	275123
T4 Ultra-short throw interactive projector	274119
T5 Wireless access point (WAP) as determined by Design – refer to Note 3	272133
T6 Classroom technology center video port	271543, 274116, 274119, 27512

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: 2 teachers
SIZE: 200 SF
ANCILLARY SPACES: Instrumental Room M-MU-1
Vocal Room M-MU-2

PROGRAM ACTIVITIES:
- Office for both instrumental and vocal music teachers
- Library for printed music, tapes, etc.

SPATIAL RELATIONSHIPS:
- Adjacent to both the instrumental room and vocal room

ENVIRONMENTAL CONSIDERATIONS:
- Interior windows to vocal room and instrumental room
- Environmental sound control
  walls minimum STC ***45***
  ceiling minimum CAC 35, NRC ***0.70***

NOTES:

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

MUSIC LIBRARY
M-MU-3

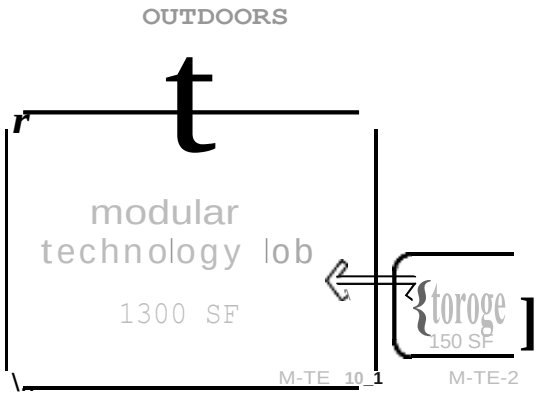
FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet, ***carpet tile,***	096816
linoleum, ET, sheet vinyl	***096813***
or rubber	***096500***
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:
L1 Chairs
L2 Files
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 (2), 2'-3' of tall wardrobes	123550
F2 24' of work surface with file drawers and wall cabinets	123550
F3 8'-16' of tall storage cabinets or shelving ***(or file cabinets)***	123550
Option: mobile storage shelving	105626
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Independent temperature control	230923
Supply/return air system	Div. 23
Electrical:	
Fluorescent lighting	265100
Illumination level: See Table 8600-***5***	
3 duplex receptacles	262726
Double duplex receptacle adjacent to data port	262726
Communications:	
T1 1 voice port and phone	271513/***273123***
T2 1 data port near each workstation	271513
Central sound system	275123
Electronic Safety and Security:	
Life safety device per code	283111
Miscellaneous:	
Interior windows (optional)	081113/088000

NOTES:

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



OR

NOTE:

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

Following are the Technology Education space plates:

M-TE-1a	Modular Technology Lab
M-TE-1b	Production Lab
M-TE-2	Storage

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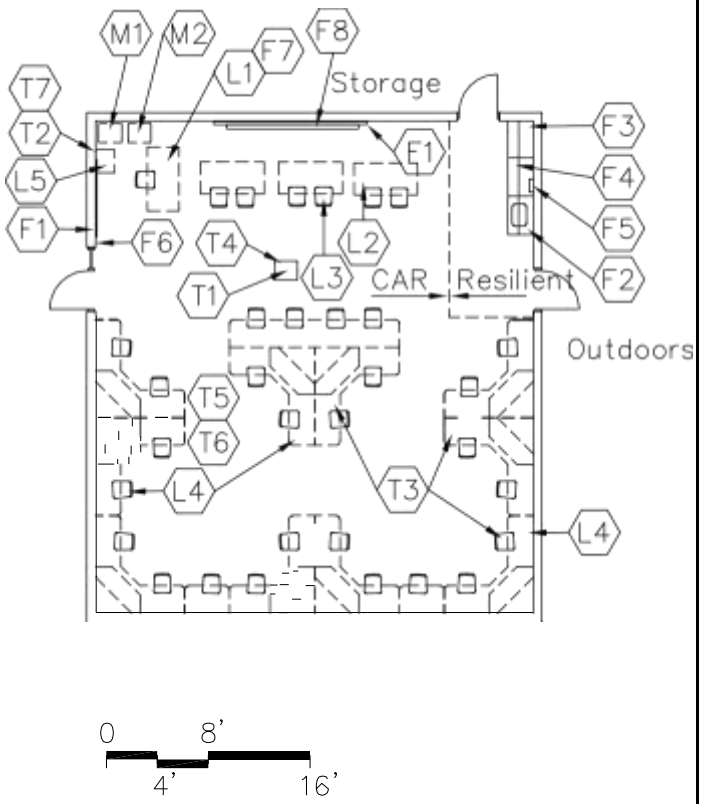


CAPACITY: 25 students
SIZE: 1,300 SF
ANCILLARY SPACES: M-TE-2 Storage

PROGRAM ACTIVITIES:

- Program accommodates groups of 2 or 3 students working with separate computerized modules in various technical areas that could include robotics, electronics, thermodynamics, research and design, and desktop publishing.
- This curriculum may be integrated with the science and math programs.
- Activity will introduce students to problem solving activities.
- A variety of hands-on activities/experiments which could include automation, wind tunnels, flight technology, digital imaging, and meteorology.

SPATIAL RELATIONSHIPS:

- Grouped with other noise producing type activities
- Access to driveway and parking
- Direct access to outdoors or access through corridor
- Adjacent to storage room

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

1. Loose furnishings represent one of many possible arrangements.

MODULAR TECHNOLOGY LAB

M-TE-1a

FINISHES[1]:	Spec. Ref.#
Flooring:	
Linoleum, ET,	096500
rubber, sheet vinyl,	096516
carpet, carpet tile	096816
	096813
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:

L1 Teacher desk/computer support and chair
L2 Tables with heavy duty tops
L3 Student stools/chairs
L4 Computer technology workstation with chairs
L5 File cabinet
Wastebaskets

Electronic Safety and Security:	
Life safety devices per code	283111

Miscellaneous:

Pencil sharpener (optional)
The following items are to be provided by the school district:
M1 Classroom area network file server
M2 Printer

E1 Duplex receptacle with dedicated circuit for wireless devices

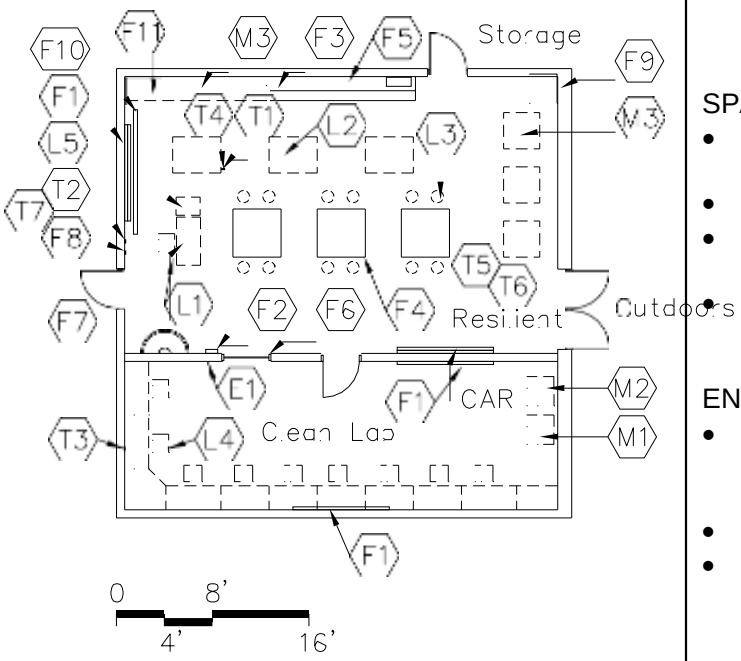
Communications (cont'd):

T6 Wireless access point (WAP) as determined by Design – refer to Note 3 272133
T7 Classroom technology center video port 271543, 274116, 274119, 275127

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 18'-26' combination marker board, tack board and tackable wall surface	101100
F2 3' sink base cabinet	123550
F3 About 9' of wall cabinets	123550
F4 About 9' of base cabinet with (heavy duty counter top)	123550
F5 Towel dispenser	102813
F6 Pencil sharpener support (optional)	062000
F7 Technology support casework	123550
F8 Projection screen (optional)	115213
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Sink	224000
Plumbing connections	224000/221116/221119
HVAC:	
Supply/return air system	Div. 23
Independent temp control	230923
Electrical:	
Fluorescent lighting with ***computer aided*** lenses	265100
Illumination level: See Table 8600-5	
Multilevel switching	262726
8 duplex receptacles	262726
Double duplex receptacle adjacent to data and video port	262726
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
Classroom area network (25 data ports minimum)	271513
Clock	275313
Central sound system	275123
Sound reinforcement system	275127
T4 Ultra-short throw interactive projector	274119
T5 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.



CAPACITY: 25 students
SIZE: 1,300 SF
ANCILLARY SPACES: M-TE-2 Storage

PROGRAM ACTIVITIES:

- Space for instruction in developing skills in use of tools, materials, and processes to apply knowledge of planning and design to actual fabrication of projects

SPATIAL RELATIONSHIPS:

- Grouped with other noise producing type activities
- Access to driveway and parking
- Direct access to outdoors or access through corridor
- Adjacent to storage room

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

1. Loose furnishings represent one of many possible arrangements.

PRODUCTION LAB
M-TE-1b

FINISHES[1]:	Spec. Ref.#
Flooring:	
Linoleum, rubber, ET, sheet vinyl	096516
Carpet, carpet tile	096500
	096816
	096813
Base:	
Resilient base	096500
Ceiling:	
Painted, exposed structure	095113
Walls:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:
L1 Teacher desk and chair

L2 Tables with heavy duty tops

L3 Student stools
L4 Computer technology workstation with chairs
L5 File cabinet
Wastebasket
Waste receptacle

Electronic Safety and Security:
Life safety devices per code 283111
Miscellaneous:
Pencil sharpener (optional)
The following items are to be funded by the school district:
M1 Classroom area network file server
M2 Printer
M3 Shop equipment with localized dust collection as necessary

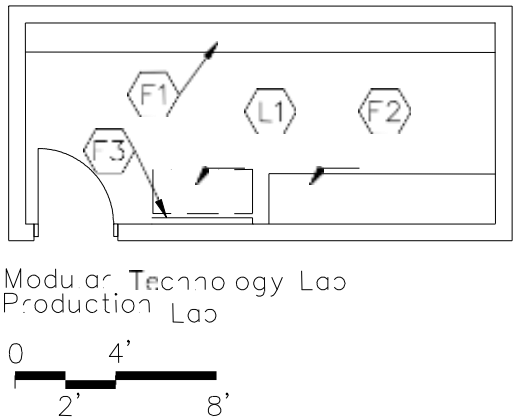
E1 Duplex receptacle with dedicated circuit for wireless devices

Communications (cont'd):
T6 Wireless access point (WAP) as determined by Design – refer to Note 3 272133
T7 Classroom technology center video port 271543, 274116, 274119, 275127

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 12'-28' combination marker	101100
F2 board, tack board & tackable wall surface	
Towel dispenser	102813
F3 8'-12' of wall cabinets	123550
F4 Workbench and locker base	123550
F5 About 12' of heavy duty counter top at 36" high with knee space	123550
F6 Interior window	081113/088000
Technology support casework	123550
F8 Pencil sharpener support (optional)	062000
F9 Tool cabinet (optional)	
F10 Projection screen (optional)	115213
F11 Tall wardrobe	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Wash fountain	224000
Plumbing connections	224000/221116/221119
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Localized dust collection system as necessary	233513
Electrical:	
Fluorescent lighting	265100
Illumination level: See Table 8600-5	
Multilevel switching in computer area	262726
8 duplex receptacles	262726
Double duplex receptacle adjacent to data and video port	262726
Means of egress lighting per code	265100
Emergency lighting per code	265100
Electrical power for shop equipment	262726
Master shut-off for power equipment	262726
Communications:	
T1 1 ***projector*** video port	271543
T2 1 voice port and phone	271513/273123
T3 Classroom area network (10 data ports minimum)	271513
Clock	275313
Central sound system	275123
Sound reinforcement system	275127
T4 ***Ultra-short throw interactive*** projector	274119
T5 ***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.***



CAPACITY: N/A
SIZE: 150 SF
ANCILLARY SPACES: Modular Technology Lab M-TE-1a or Production Lab M-TE-1b

PROGRAM ACTIVITIES:

- Houses equipment, instructional aids, and materials used in the technology education activities

SPATIAL RELATIONSHIPS:

- Adjacent to the modular technology lab or production lab
- Access to service drive

ENVIRONMENTAL CONSIDERATIONS:
N/A

NOTES:

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

STORAGE
M-TE-2

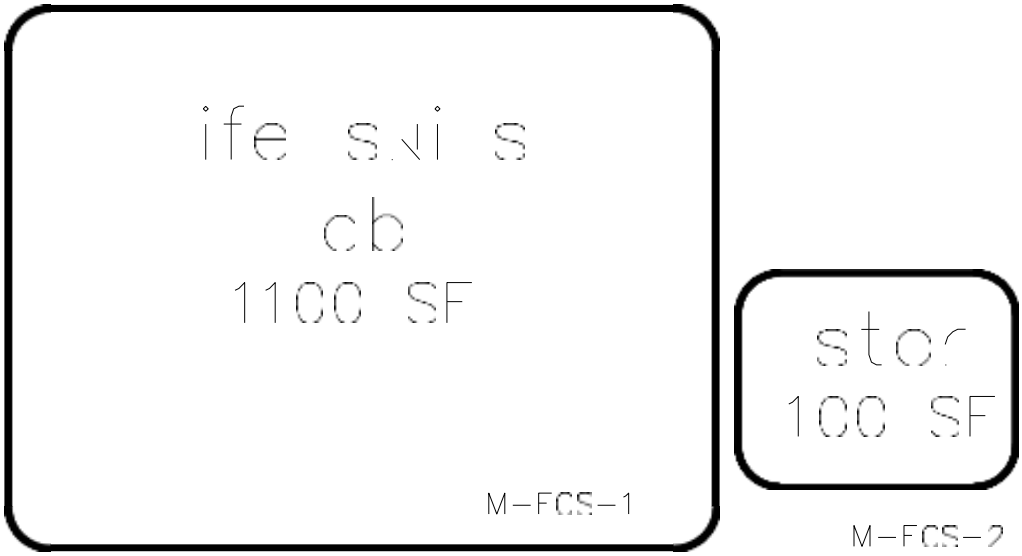
FINISHES[1]:	Spec. Ref.#
Flooring:	
Sealed concrete	033000
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:
L1 Mobile tool cart

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 10'-20' of open shelving, depths may vary (fixed or loose)	123550
F2 About 9' of tall cabinets	123550
F3 4' of pegboard (optional)	102813
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
To be determined by Design Professional	
Supplemental heat as required	Div. 23
Electrical:	
Fluorescent lighting	265100
Illumination level: See Table 8600-***5***	
1 duplex receptacle	262726
Communications:	
N/A	
Electronic Safety and Security:	
N/A	
Miscellaneous:	
N/A	

NOTES:

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



NOTES:

This is an example of how the family and consumer science spaces in a middle school could be arranged. This is meant only to demonstrate the relationships between various spaces of this area.

Following are the Family and Consumer Science space plates:

M-FCS-1 Life Skills Lab
M-FCS-1 Life Skills Storage

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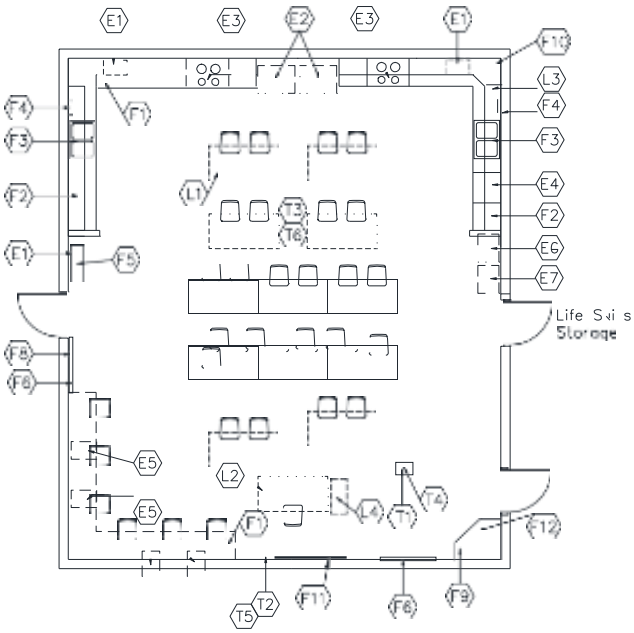


CAPACITY: 24 students
SIZE: 1,100 SF
ANCILLARY SPACES: Life Skills Storage M-FCS-2

PROGRAM ACTIVITIES:

- Houses the facilities for the home economics programs, family living program, and consumer science programs
- Activities will include hands-on activities, demonstrations, and lectures.

SPATIAL RELATIONSHIPS:

- Grouped with support service programs
- Adjacent to storage

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

LIFE SKILLS LAB
M-FCS-1

FINISHES[1]:	Spec. Ref.#
Flooring:	
Linoleum,	096515
ET, sheet vinyl, or rubber	096500
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Paint	099100

LOOSE FURNISHINGS:
L1 Tables and chairs
L2 Teacher desk/computer support and chair
L3 Reserved
L4 File cabinet
Wastebaskets

EQUIPMENT:
E1 Microwaves
E2 Refrigerators
E3 Ranges and ovens
E4 Dishwasher
E5 Sewing machines
E6 Washer
E7 Dryer

Miscellaneous:
Pencil sharpener (optional)
E1 Duplex receptacle with dedicated circuit for wireless devices

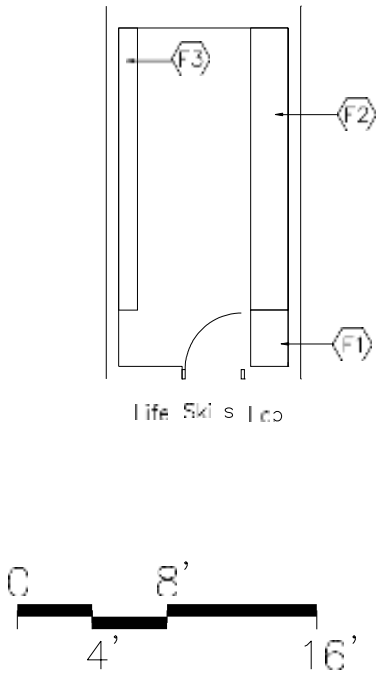
Electronic Safety and Security:	
Life safety devices per code	283111

Communications (cont'd):
T4 Ultra-short throw interactive projector 274119
T5 Classroom technology center video port 271543, 274116, 274119, 275127
T6 Wireless access point (WAP) as determined by Design – refer to Note 3 272133

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Base cabinets	123550
F2 Wall cabinets	123550
F3 Double bowl sink base cabinet	123550
F4 Towel dispensers (optional)	102813
F5 3'-8' of bookcases	123550
F6 12'-20' combination marker board tack board, & tackable wall surface	101100
F7 Reserved	
F8 Pencil sharpener support (optional)	062000
F9 Tall wardrobe with file drawers	123550
F10 3' tall cabinet (optional)	123550
F11 Projection screen (optional)	115213
F12 Technology support casework	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Double sinks	224000
Plumbing connections	224000/221116/221119
Garbage disposal (optional)	224000
Washer connections	224000
HVAC:	
Supply/return air system	Div. 23
Manually operated exhaust system	Div. 23
Independent temp control	230923
Dryer vent system	Div. 23
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
Receptacles for refrigerators, microwaves, ranges, dishwashers, and sewing machines	262726
Means of egress lighting per code	265100
Emergency lighting per code	265100
Washer and dryer connections	262726
Communications:	
T1 1 projector video port	271543
T2 1 voice port and phone	271513/273123
T3 Wireless access point cable near ceiling	271513
Clock	275313
Central sound system	275123
Sound reinforcement system	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.



CAPACITY: N/A
SIZE: 100 SF
ANCILLARY SPACES: M-FCS-1 Life Skills Lab

PROGRAM ACTIVITIES:

- Storage of materials, supplies, and equipment used in the delivery of the family and consumer science program

SPATIAL RELATIONSHIPS:

- Adjacent to life skills lab

ENVIRONMENTAL CONSIDERATIONS:

N/A

NOTES:

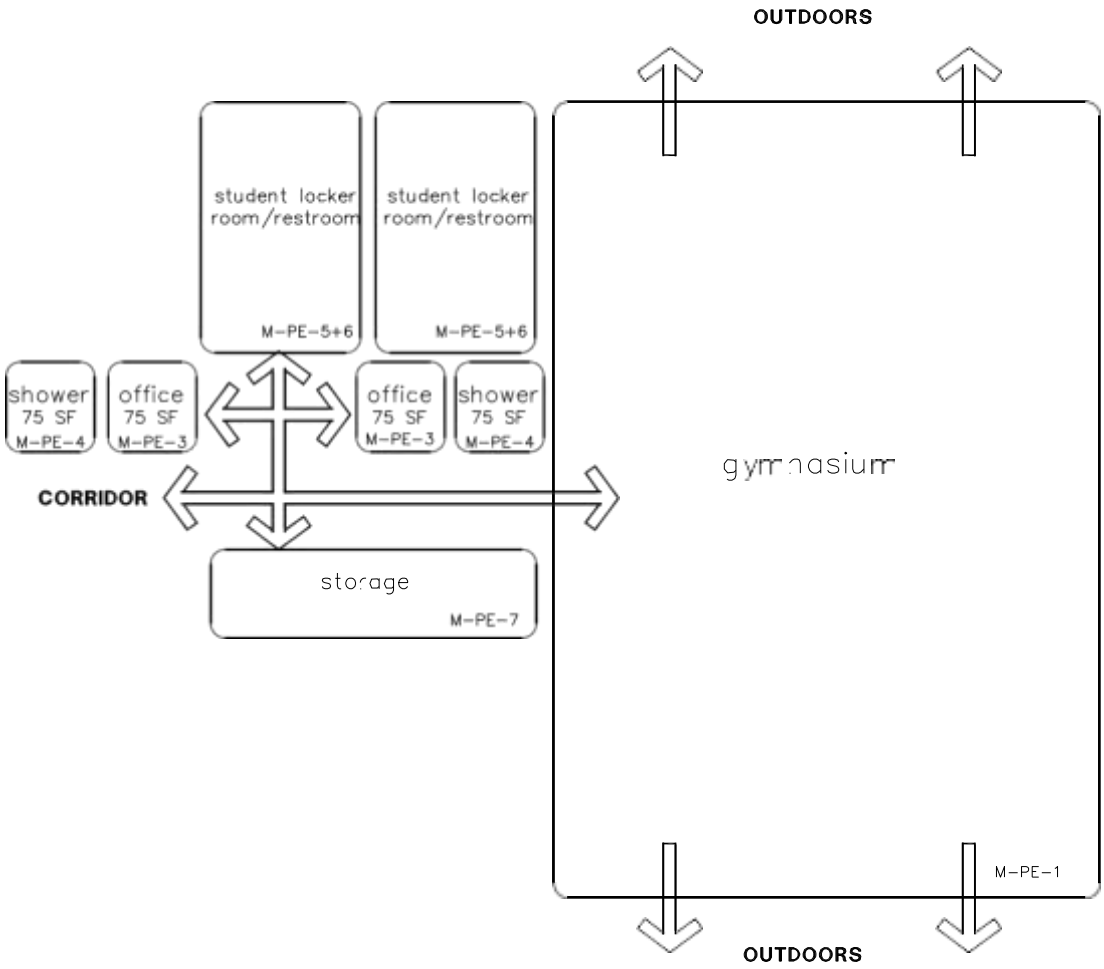
LIFE SKILLS STORAGE
M-FCS-2

FINISHES[1]:	Spec. Ref.#
Flooring:	
Rubber, linoleum, sheet vinyl, or ET	096500 ***096516***
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:
N/A

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Tall wardrobe (optional)	123550
F2 10'-15' of tall cabinets, or base and wall cabinets	123550
F3 10'-15' of open tall cabinets	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
To be determined by Design Professional	
Supplemental heat as required	Div. 23
Electrical:	
Fluorescent lighting	265100
Illumination level: See Table 8600-***5***	
1 duplex receptacle	262726
Communications:	
N/A	
Electronic Safety and Security:	
N/A	
Miscellaneous:	
N/A	

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



NOTES:

This is an example of how the physical education spaces in a middle 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:

M-PE-1	Gymnasium
M-PE-2	Auxiliary Gymnasium
M-PE-3	P.E./Athletic Office
M-PE-4	Staff Shower
M-PE-5	Student Locker Room
M-PE-6	Student Restroom/Shower
M-PE-7	Physical Education Storage

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 1,000 students would have approximately 95 staff members indicating a total number of persons in the facility of 1,095. The maximum size of the gymnasium would be 8,500 sf. That value, 8,500 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 middle schools, space for seating in the gym is provided for the entire student enrollment and staff. The approximate number of seats to be included is shown in the table below.

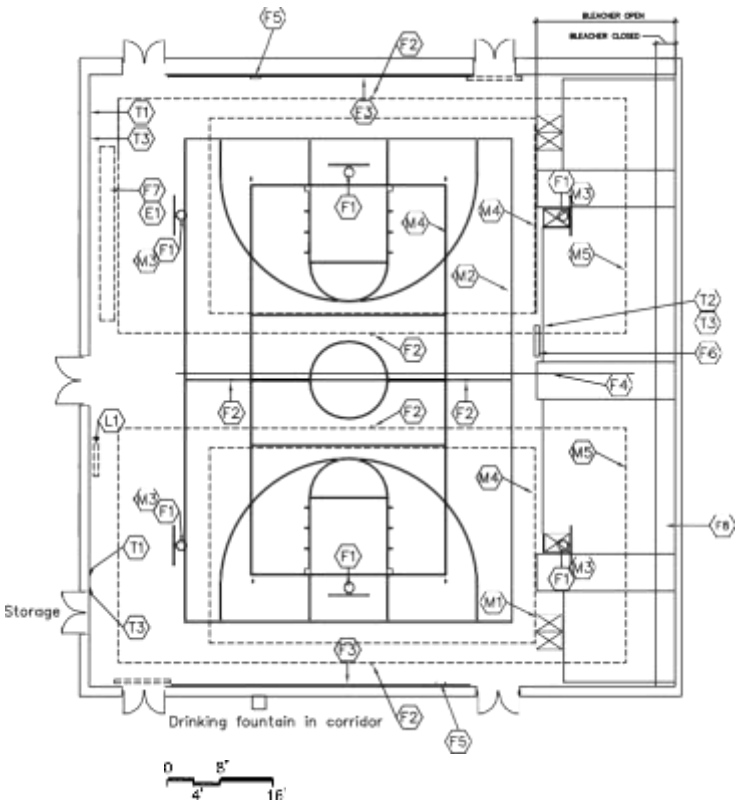
FINAL LAYOUT

The actual Gym layout and number of seats will be determined during the design process.

Middle School Gymnasium Design Guidelines

STN ENRL	Staff	Total Occup	Gym SF	Court Size	Approx. # Seats
450	44	494	7,000	50 x 74	1 08
600	58	658	***7,500***	50 x 74	236
750	72	822	***8,000***	50 x 74	3 64
1,000	95	1,095	8,500	50 x 74	492
1,250	***1 19***	***1,369***	***9,300***	***50 x 74***	***696***
1,500	1 42	1,642	10,000	50 x 74	876
1,750	***180***	***1,930***	***11,000***	***50 x 74***	***1,132***
2,000	217	2,217	12,000	50 x 74	1,388

Note: 2011



Please see page 5109-5 for an enlargement of this diagram.

CAPACITY: 25 - 60 students
SIZE: 7,000 – 12,000 SF
ANCILLARY SPACES:
Physical Education Storage
M-PE-7

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

SPATIAL RELATIONSHIPS:
- Direct access to outdoors
- Near student dining

ENVIRONMENTAL CONSIDERATIONS:
- Adequate sound control/acoustics
- Clear, ***fixed*** height of 23' from floor to nearest obstruction
- Environmental sound control - wall minimum STC 60

NOTES:

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

GYMNASIUM
M-PE-1

FINISHES[1]:	Spec. Ref.#
Flooring:	
Wood flooring or	096466
Fluid-applied athletic flooring	096766
Base:	
Ventilated resilient base	096466
Ceiling:	
Painted exposed structure	099100
Walls:	
Painted	099100
Sound absorbing concrete masonry units or abuse-resistant	042000
acoustical wall treatment	098000

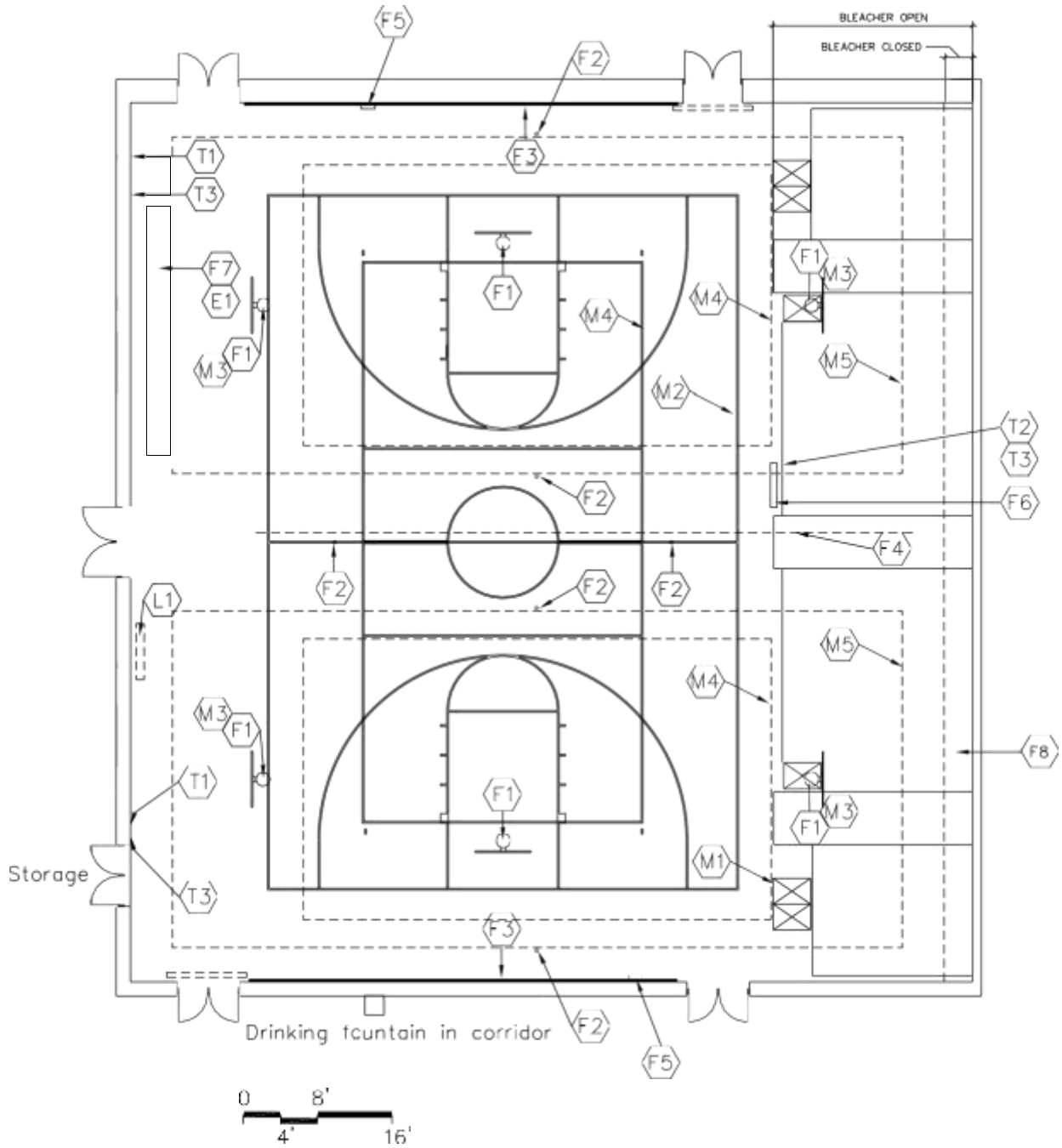
LOOSE FURNISHINGS:
L1 Portable ***markerboard***

Miscellaneous:
M1 Bleacher seating (ADA accessible)
Court markings (***optional***)
M2 74' x ***42'*** main basketball court
M3 2 cross courts to fit
M4 30'x 60' volleyball courts
M5 36' x 78' tennis courts
Provide wire guards on light fixtures and wall-mounted electrical devices.

EQUIPMENT:
E1 Wrestling mat

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 (6) basketball backstops, glass	116623
F2 Volleyball sleeves and standards on a cart	116623
F3 Safety wall wainscot (see note 2)	116623
F4 Divider gym curtain	116623
F5 Chin-up bar (optional)	116623
F6 Scorer table	126600
F7 Wrestling mat hoist (optional)	116623
F8 Telescoping bleachers	126600
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Drinking fountain directly outside the entrance	224000
HVAC:	
Supply/return air system	Div. 23
Independent temp control	230923
Electrical:	
Multi-level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-5	
8 duplex receptacles	262726
Double duplex receptacle adjacent to each data and video port	262726
Emergency lighting per code	265100
Means of egress lighting per code	265100
Electrical connections to P.E. equipment where necessary	262726
Scoreboard (control outlets in the face of bleachers)	116643
Telecommunications Grounding	270526/260526
Communications::	
T1 2 ***projector*** video ports, 1 monitor with cart	271543/274119
T2 1 voice port	271513/273113
T3 3 data port	271513
Clocks with wire guards	275313
Central sound system	275123
Gymnasium sound system	275124
Electronic Safety and Security:	
Life safety devices per code	283111

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.


BLEACHER OPEN
BLEACHER CLOSED
F5
F2
F3
T1
T3
F7
E1
F1
M3
M4
M5
M2
T2
F6
F4
L1
M1
F8
Storage
Drinking fountain in corridor
0
8'
4'
16'

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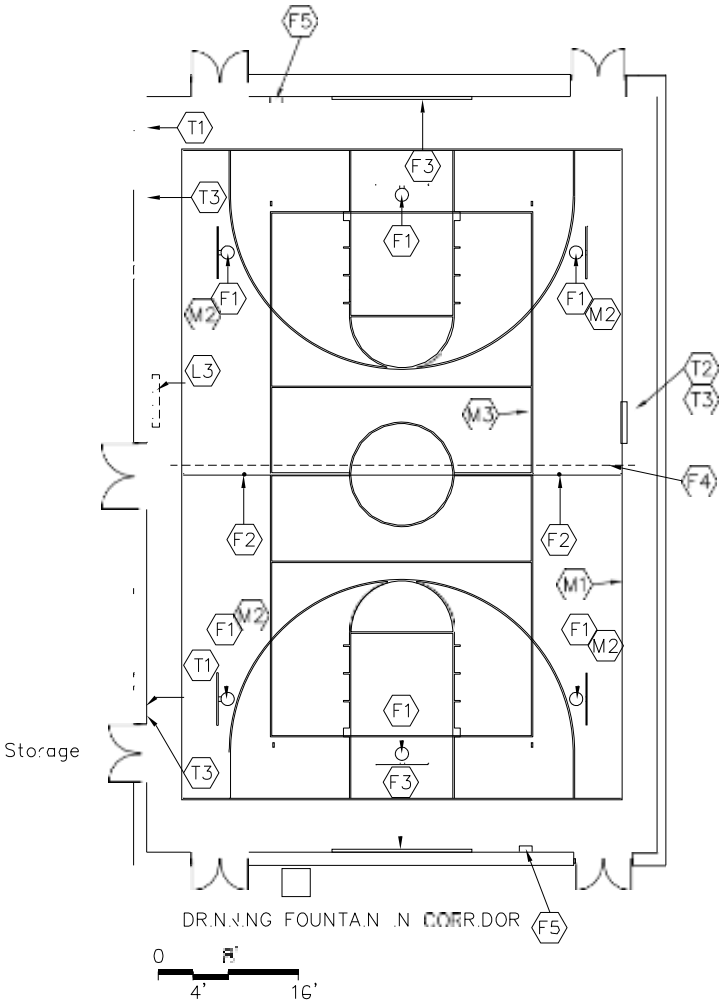


Please see page 5109-9 for an enlargement of this diagram.

CAPACITY: 25 - 60 students
SIZE: 5,000 – 6,500 SF
ANCILLARY SPACES:

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- ***Direct*** access to outside
- ***Near student dining***

ENVIRONMENTAL CONSIDERATIONS:

- Adequate sound control/acoustics
- Clear height of 23' from floor to nearest obstruction
- Environmental sound control - wall minimum STC 60

NOTES:

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

AUXILIARY GYMNASIUM
M-PE-2

FINISHES[1]:	Spec. Ref.#
Flooring:	
Wood flooring or fluid applied	096466
athletic flooring	096766
Base:	
Ventilated resilient base	096466
Ceiling:	
Painted exposed structure	099100
Walls:	
Painted	099100
Sound absorbing concrete masonry units on 2 walls or	042000
abuse-resistant acoustical wall treatment	

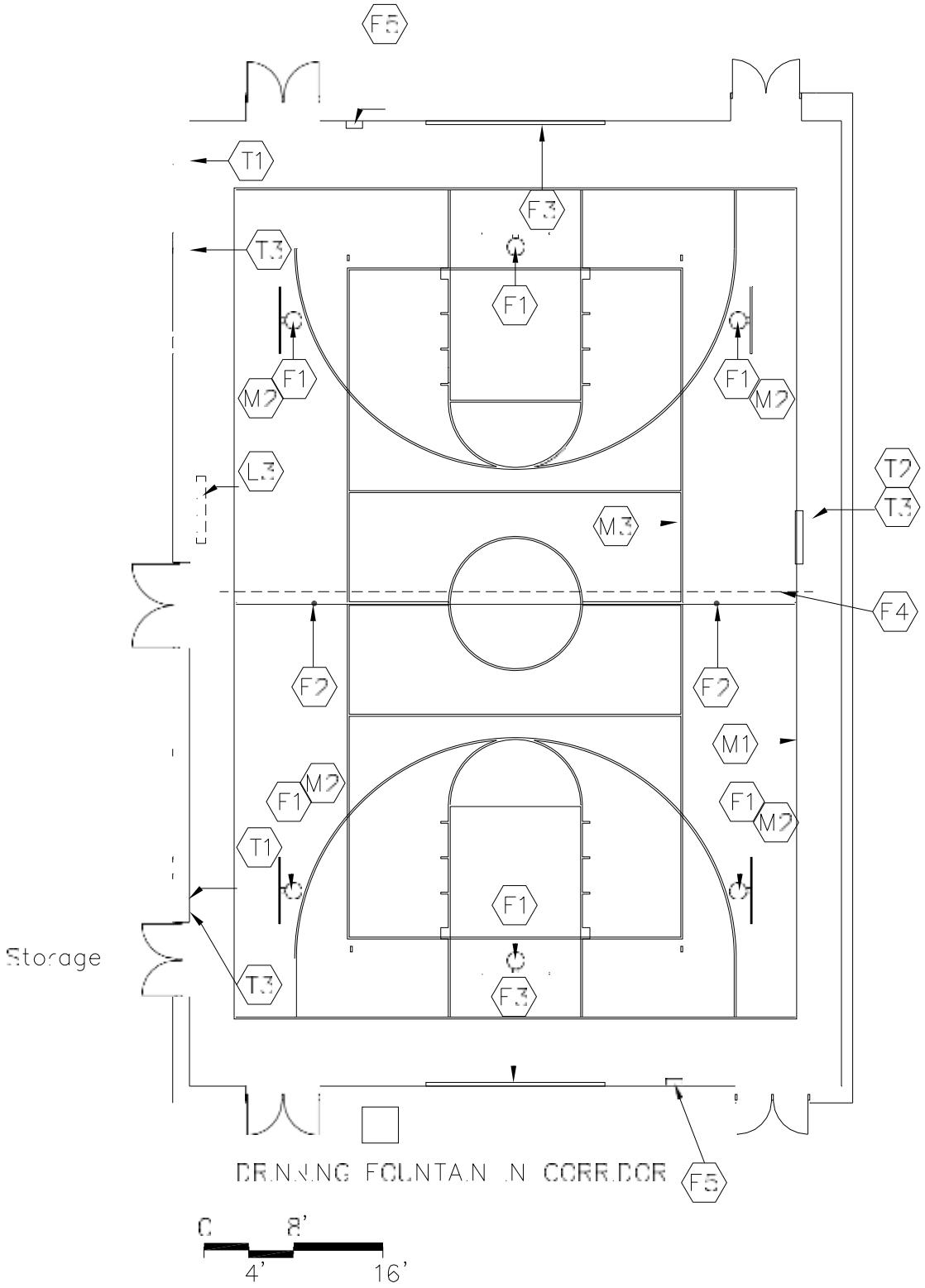
LOOSE FURNISHINGS:
L1 Portable ***markerboard***

Miscellaneous:
Court markings (minimum)
M1 74' x 50' main basketball court
M2 2 cross courts to fit
M3 30'x60' volleyball court
Provide wire guards on light fixtures and wall-mounted electrical devices.

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 6 basketball backstops, glass	116623
F2 Volleyball sleeves and standards on a cart	116623
F3 Safety wall wainscot	116623
F4 Divider gym curtain	116623
F5 Chin-up bar (optional)	116623
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Drinking fountain directly outside the entrance	224000
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Electrical:	
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
Emergency lighting per code	265100
Means of egress lighting per code	265100
Electrical connections to P.E. equipment where necessary	262726
Telecommunications Grounding	270526/260526
Communications:	
T1 2 video ports, 1 monitor with cart	271543/274119
T2 1 voice port	271513/273113
T3 2 data port	271513
Clocks with wire guards	275313
Central sound system	275123
Gymnasium sound system	275124
Electronic Safety and Security:	
Life safety devices per code	283111

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. The OFCC does not co-fund telescoping bleachers in auxiliary gyms. District may provide telescoping bleachers in accordance with section 126600 at district's expense.


F5
T1
F3
T3
F1
M2
L3
T2
M3
F4
F2
M1
Storage
DRINKING FOUNTAIN IN CORRIDOR
0
8'
4'
16'

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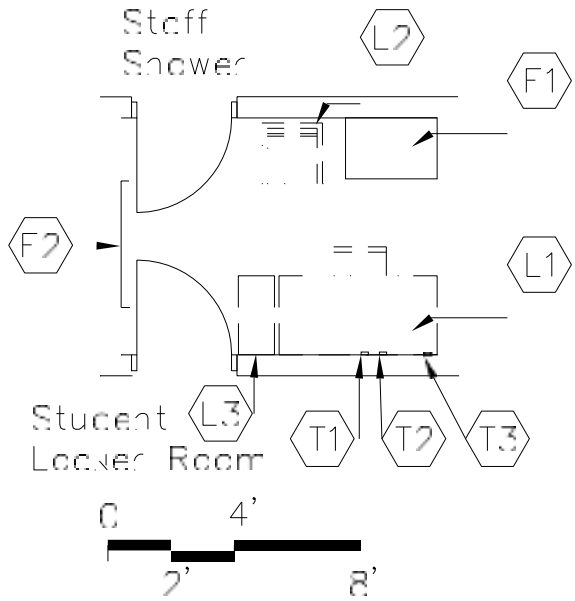


PROGRAM ACTIVITIES:
- Teacher office for planning, grading, conferences, and scheduling

SPATIAL RELATIONSHIPS:
- Near gymnasium
- Adjacent to student locker rooms
- Adjacent to staff shower

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

CAPACITY:	1 teacher
SIZE:	75 SF
ANCILLARY SPACES:	Student Locker Room M-PE-***5***
	Staff Shower M-PE-***4***

NOTES:

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

P.E./ATHLETIC OFFICE
M-PE-*3*

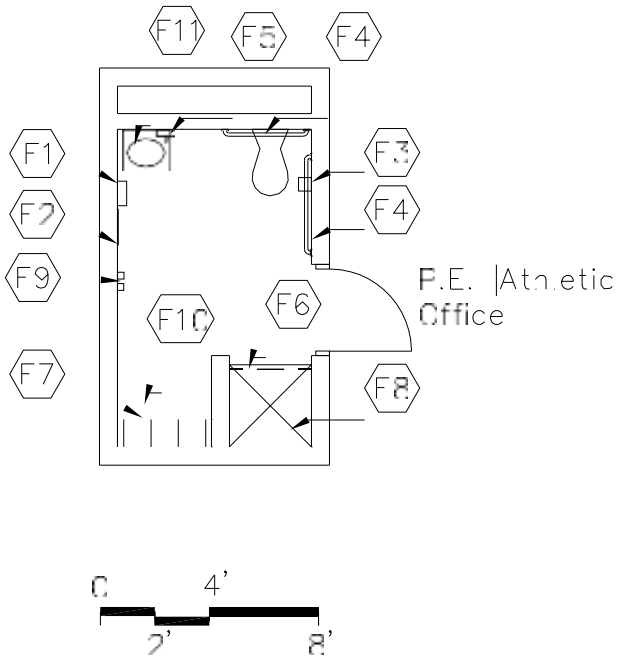
FINISHES[1]:	Spec. Ref.#
Flooring:	
Linoleum,	096516
ET, sheet vinyl, or rubber	096500
Base:	
Resilient base	096500
Ceiling:	
Acoustical, suspended	095113
Walls:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:
L1 Teacher desk and chair
L2 Visitor chair
L3 File cabinet
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Tall wardrobe	123550
F2 4' of tack or marker board	101100
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temp control (coupled with similarly loaded adjacent spaces)	230923
Electrical:	
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
Communications:	
T1 1 voice port and phone	271513/273123
T2 1 data port near teacher workstation	271513
T3 1 ***projector*** video port	271543
Central sound system	275123
Clock	275313
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
Interior window (optional)	081113/088000

NOTES:

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



CAPACITY: 1 person
SIZE: 75 SF
ANCILLARY SPACES: P.E./Athletic Office
M-PE-***3***

PROGRAM ACTIVITIES:

- Personal and health care needs for physical education teacher

SPATIAL RELATIONSHIPS:

- Adjacent to P.E./athletic office

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

STAFF SHOWER
M-PE-*4*

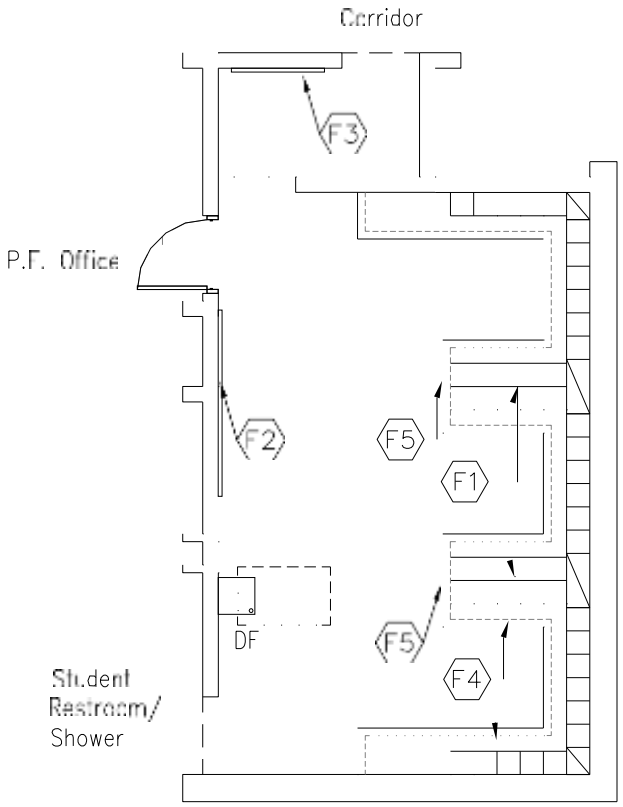
FINISHES[1]:	Spec. Ref.#
Flooring:	
Restroom: Ceramic mosaic tile	***093000***
sheet vinyl, resinous flooring	096500
	096723
Shower: Ceramic mosaic tile,	093000
porcelain tile, or resinous flooring	
Base:	
Restroom: Resilient base,	096500
resinous flooring, or	096723
integral vinyl cove base	093000
Shower: Ceramic mosaic tile base, porcelain tile base, resinous flooring, or integral vinyl cove base	
Ceiling:	
Restroom: Suspended, acoustical	095113
Shower: Painted portland cement plaster	092400/099100
or interior finish system	092513
Walls:	
Epoxy painted concrete masonry units	042000/099100
or ceramic wall tile in shower and	093000
latex paint in restroom	099100

LOOSE FURNISHINGS:
Wastebasket

FEATURES[1]:		Spec. Ref.#
Fixed Items:		
F1	Towel dispenser	102813
F2	24" x 60" mirror	102813
F3	Toilet tissue holder	102813
F4	36" and 42" grab bar	102813
F5	Soap dispenser	102813
F6	Shower curtain and rod	102813
F7	3 athletic lockers	105113
F8	ADA Shower accessories	102813
F9	Towel hooks	102813
F10	Built-in bench (optional)	102813
F11	Mirror over sink with shelf (optional)	102813
Fire Suppression:		
	Fire suppression system	211000
Plumbing:		
	Wall-mounted water closet	224000
	Wall-mounted lavatory	224000
	ADA shower controls and head	224000
	Plumbing connections	224000/221116/221119
HVAC:		
	Exhaust air system	Div. 23
	Supplemental heat as required	Div. 23
Electrical:		
	Single level switching	262726
	Fluorescent lighting	265100
	Illumination level: See Table 8600-***6***	
	1 duplex receptacle	262726
Communications:		
	Central sound system	275123
Electronic Safety and Security:		
	Life safety devices per code	283111
Miscellaneous:		
	N/A	

NOTES:

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



PROGRAM ACTIVITIES:

- Students change from their regular clothes into clothes appropriate for physical education
- Storage for personal items while students are attending physical education class

SPATIAL RELATIONSHIPS:

- Adjacent to student restroom/shower
- Near both gymnasium and outdoor area
- Located on gymnasium level
- Adjacent to P.E./athletic office

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY: 25 - 30 students
SIZE: 600 - ***900 SF***
ANCILLARY SPACES:
Student Restroom/Shower
M-PE-***6***
P.E./Athletic Office
M-PE-***3***

NOTES:

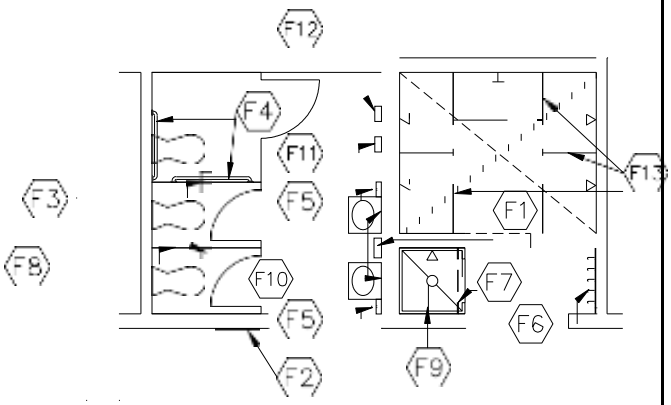
STUDENT LOCKER ROOM
M-PE-*5*

FINISHES[1]:	Spec. Ref.#
Flooring:	
Sealed concrete, sheet vinyl,	093000
rubber, rubber tile,	096500
or resinous flooring	096723
Base:	
Resilient base or	096500
resinous flooring	096723
Ceiling:	
Suspended, acoustical with high-impact hold-down clips	095113
Option: Exposed painted pre-cast units	099100
Walls:	
Painted concrete masonry units	042000/099100
LOOSE FURNISHINGS:	
Wastebaskets	

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Athletic lockers	105113
F2 8'-16' combination marker board and tackable wall surface	101100
F3 Reserved	
F4 Locker benches (fixed or loose)	062000
F5 Mirrors (optional)	102813
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Drinking fountain	224000
HVAC:	
Supply air system	Div. 23
Exhaust air system	Div. 23
Independent temperature control	230923
Electrical:	
Fluorescent lighting	265100
Illumination level: See Table 8600-6	
2 duplex receptacles	262726
Emergency lighting	265100
Means of egress per code	265100
Communications:	
Clock	275313
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

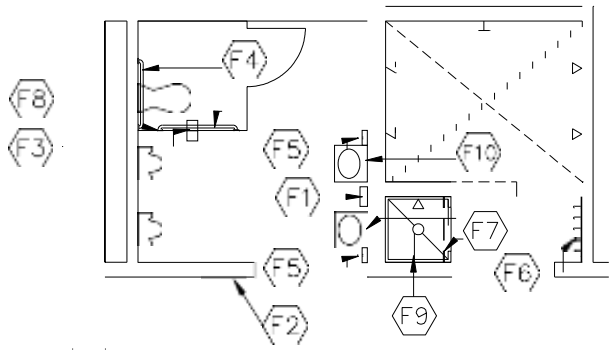
NOTES:

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



Female Student Locker Room

0 4' 2' 8



Male Student Locker Room

0 4' 2' 8

CAPACITY: 5 students
SIZE: 250 SF
ANCILLARY SPACES: Student Locker Room M-PE-***5***

PROGRAM ACTIVITIES:

- Serves as separate shower and restroom areas for males and females in the physical education and athletic programs
- Community adults and children may also use this facility after hours

SPATIAL RELATIONSHIPS:

- Adjacent to student locker room
- Direct access to both gymnasium and outdoor area

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

STUDENT RESTROOM/SHOWER
M-PE-*6*

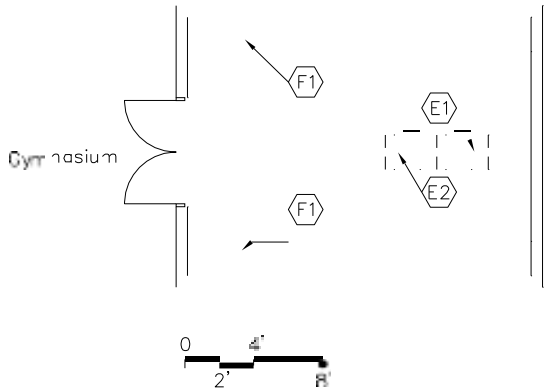
FINISHES[1]:	Spec. Ref.#
Flooring:	
Restroom: ***Ceramic mosaic,***	***093000***
porcelain tile, sheet vinyl, or	096500
resinous flooring	096723
Shower: Ceramic mosaic tile, porcelain tile, or resinous flooring	
Base:	
Restroom: Resilient base,	096500
resinous flooring, or	096723
integral vinyl cove base	093000
Shower: Ceramic mosaic tile base, porcelain tile base, resinous flooring, or integral vinyl cove base	
Ceiling:	
Restroom: Suspended, acoustical with high-impact, hold-down clips	095113
Shower: Painted portland cement plaster	092400/099100
or interior finish system	092513
Walls:	
Epoxy-painted concrete masonry units or	042000/099100
ceramic wall tile in showers	093000
and latex paint in restroom	099100
LOOSE FURNISHINGS:	
Wastebaskets	

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Towel dispensers	102813
F2 24" by 60" mirror	102813
F3 Toilet tissue holders	102813
F4 36” and 42” grab bars	102813
F5 Soap dispensers	102813
F6 Towel hooks	102813
F7 Shower curtain and rod	102813
F8 Toilet partitions	102813
F9 ADA shower accessories	102813
F10 16" x 24" mirrors with shelves	102813 F11
Sanitary product dispenser[2]	102813 F12
Sanitary product receptacles[2]	102813 F13
Modesty shower partitions[2]	102113
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Wall-mounted water closets	224000
Wall-mounted lavatories or wash fountains	224000
Wall-mounted urinals	224000
ADA shower controls and head	224000
Shower fixtures	224000
Plumbing connections	24000/221116/221119
HVAC:	
Supply/return air system	Div. 23
Exhaust air system	Div. 23
Electrical:	
Fluorescent lighting	265100
Illumination level: See Table 8600-***6***	
Single level switching	262726
1 duplex receptacle	262726
Emergency lighting	265100
Means of egress lighting per code	265100
Communications:	
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

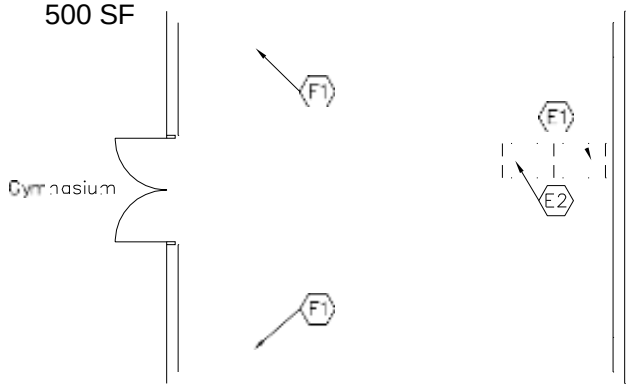
NOTES:
1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Toilet accessories and shower partitions for female locker rooms.

3. Optional: electric hand dryers

300 SF



500 SF



CAPACITY:	N/A
SIZE:	300 - 500 SF
ANCILLARY SPACES:	Gymnasium M-PE-1

PROGRAM ACTIVITIES:
- Storage for physical education equipment

SPATIAL RELATIONSHIPS:
- Adjacent to gymnasium
- Near P.E./athletic office

ENVIRONMENTAL CONSIDERATIONS:
N/A

NOTES:

PHYSICAL EDUCATION STORAGE
M-PE-*7*

FINISHES[1]:	Spec. Ref.#
Flooring:	
Sealed concrete	033000
Base:	
No base	
Ceiling:	
Exposed structure	
Option: Rated gypsum wallboard	092116
Walls:	
Unpainted concrete masonry units	042000

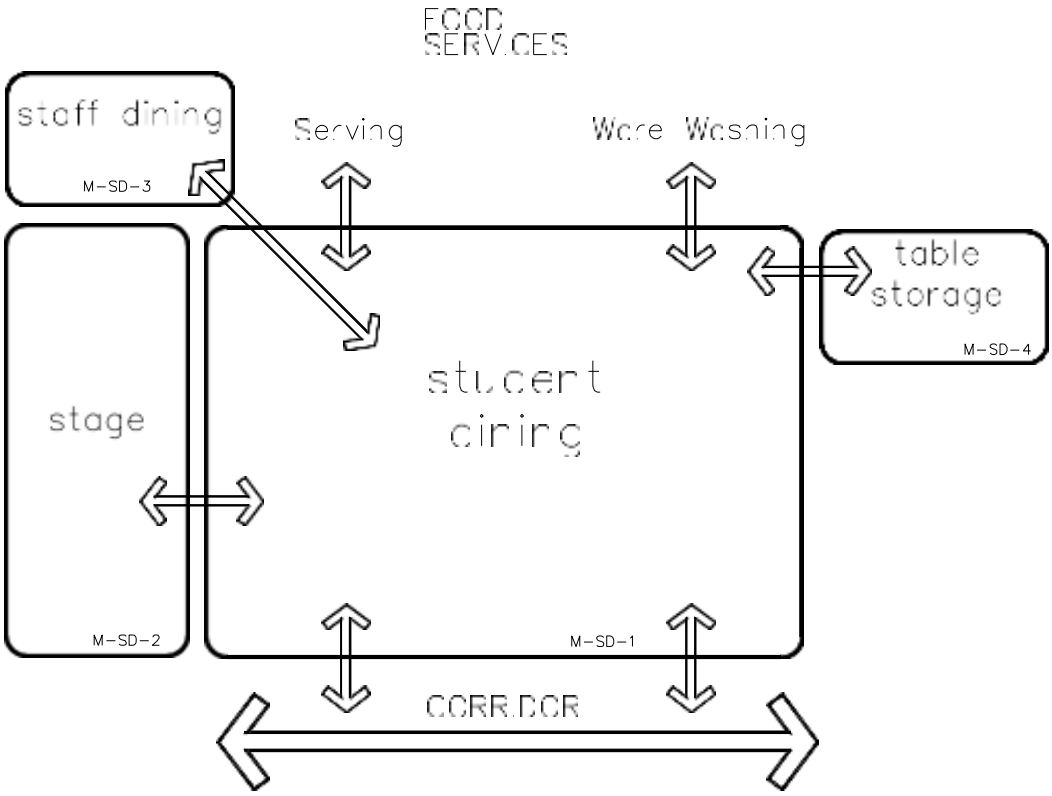
LOOSE FURNISHINGS:
N/A

EQUIPMENT:
E1 Tumbling mats on carts
E2 Ball carts

FEATURES[1]:	Spec. Ref.#
Fixed Items[2]:	
F1 20' – 48' of open shelving, depths may vary (fixed or loose)	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Exhaust air system	Div. 23
Supplemental heat as required	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***6***	
1 duplex receptacle	262726
Communications:	
N/A	
Electronic Safety and Security:	
N/A	
Miscellaneous:	
N/A	

NOTES:

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



NOTES:

This is an example of how the student dining spaces in a middle 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:

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

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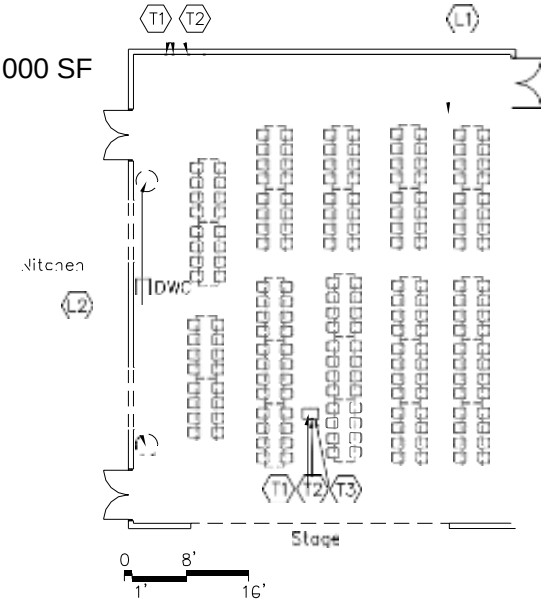
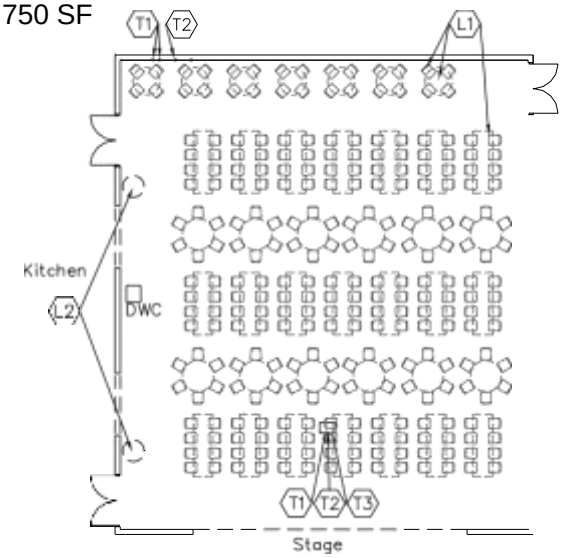
3,000 SF



3,750 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, M-SD-2
Kitchen, M-FS-1

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
- 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.
- Natural lighting

NOTES:

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

STUDENT DINING
M-SD-1

FINISHES[1]:	Spec. Ref.#
Flooring:	
Linoleum, rubber, ET, sheet	096500
vinyl, porcelain tile, terrazzo	096516
tile, carpet tile, VCTT,	093000
polished concrete finishing, or	096813
colored concrete finishing	033510
	033519
Base:	
Resilient base	096500
Optional: porcelain tile base	093000
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100
Acoustical wall treatment and diffusers	098000

LOOSE FURNISHINGS:

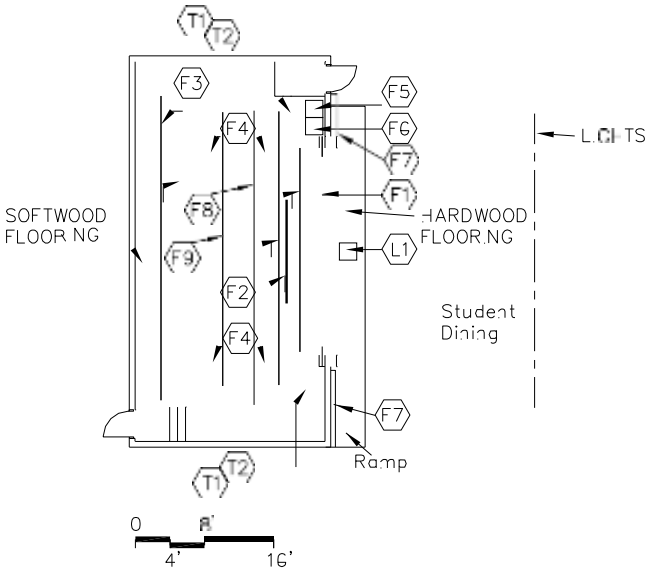
L1 Tables and chairs or long tables with attached stools
L2 Large waste receptacles
Folding or high density stack chairs for large assembly use
Carts for chairs
Recycling bins

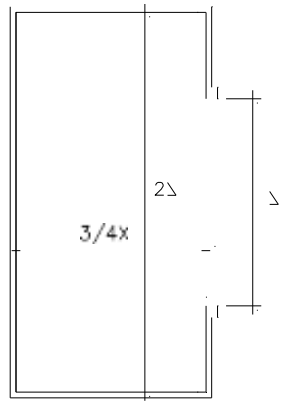
Note: Cafeteria tables with attached stools shall be securely anchored to walls when not in use or be kept in secure storage area when not in use.

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
N/A	
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Drinking water cooler	224000
HVAC:	
Supply/return air system	Div. 23
Independent temp ctrl	230923
Electrical:	
Fluorescent lighting	265100
Illumination level: See Table 8600-6	
Multilevel switching	262726
8 duplex receptacles	262726
Double duplex receptacle adjacent to each data and video port	262726
Means of egress lighting per code	265100
Emergency lighting	265100
Telecommunications Grounding	270526/260526
Communications:	
T1 2 ***projector*** video ports	271543
T2 2 data ports	271513
Clock	275313
Student dining/cafeteria sound system[2]	275122
Central sound system	275123
T3 ***Ultra-short throw interactive*** projector	274119
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
Windows with integral blinds or windows with shading devices (optional)	081113 /088000

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.





Proportions are recommended – not mandatory.

CAPACITY: NA
SIZE: x = proscenium opening
see diagram for dimensions
ANCILLARY SPACES: Student Dining
M-SD-1

PROGRAM ACTIVITIES:
- Serves as the assembly type programs, performances, and presentations for students and adults

SPATIAL RELATIONSHIPS:
- Open to student dining area

ENVIRONMENTAL CONSIDERATIONS:
- Area should be raised slightly above student dining area floor
- Provide handicapped accessibility

NOTES:

STAGE
M-SD-2

FINISHES[1]:	Spec. Ref.#
Flooring:	
Wood flooring, dark finish	096400
Stairs: carpet, rubber, or wood	
Base:	
Ventilated resilient base	096400
Ceiling:	
Painted, exposed structure	099100
Walls:	
Painted concrete masonry units	042000/099100

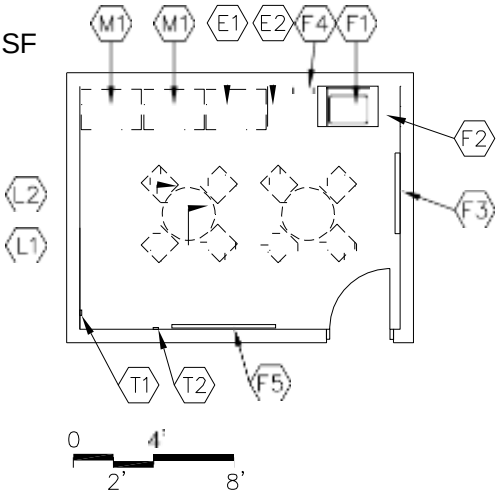
LOOSE FURNISHINGS:
L1 Podium

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Front curtain, track, and valance or grand border	116143
F2 Projection screen	116143
F3 Rear curtain	116143
F4 Leg curtains, tracks, and/or pivots	116143
F5 Sound control console receptacle	275122
F6 Lighting control console receptacle	265100
F7 Pipe handrail	055000
F8 Light pipe	116143
F9 Border curtains	116143
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Temperature control with student dining space	230923
Electrical:	
Fluorescent lighting	265100
Illumination level: See Table 8600-6	
Single level switching	262726
2 duplex receptacles	262726
Double duplex receptacle adjacent to each data and video port	262726
Emergency lighting	265100
Telecommunications Grounding	270526/260526
Communications:	
T1 2 ***projector*** video ports (1 on each side of the proscenium opening)	271543/274119
T2 2 data ports (1 on each side of the proscenium opening)	271513
Student dining/cafeteria sound system[2]	275122
Electronic Safety and Security:	
Life safety devices per code	283111

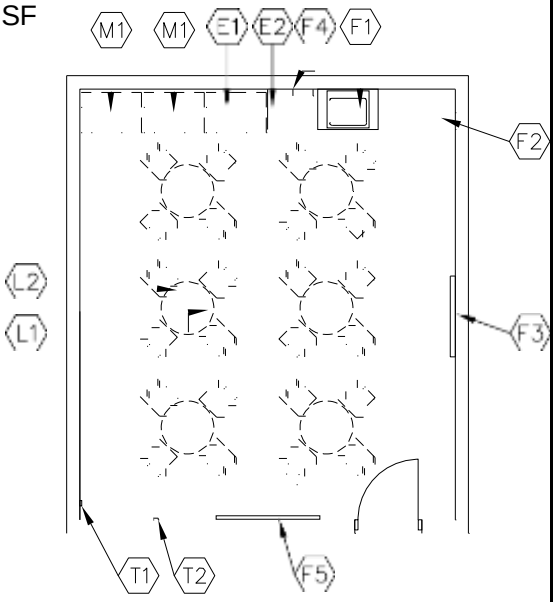
NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Student dining sound system is to be used in conjunction with student dining area.
3. Provide a reflective strip on floor at edge of stage.

200 SF



300 SF



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

PROGRAM ACTIVITIES:
- Space for staff dining

SPATIAL RELATIONSHIPS:
- Near student dining
- Near food services

ENVIRONMENTAL CONSIDERATIONS:
- Environmental sound control -
  walls ***only*** minimum STC ***45***
  ceiling minimum CAC 35, NRC 0.70

NOTES:

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

STAFF DINING
M-SD-3

FINISHES[1]:	Spec. Ref.#
Flooring:	
Linoleum, ET, sheet vinyl,	096500
rubber, porcelain tile,	096516
carpet tile, VCTT,	093000
terrazzo tile	096813
Base:	
Resilient base	096500
Optional: porcelain tile	093000
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted, concrete masonry units	042000/099100

LOOSE FURNISHINGS:
L1 Tables
L2 Chairs
Waste receptacle

EQUIPMENT:
E1 Refrigerator (could be fixed equipment)
E2 Microwave
Waste receptacle

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 3' sink base cabinet with wall cabinet above	123550
F2 About 8' of base and wall cabinets	123550
F3 4' of tack board	101100
F4 Towel dispenser	102813
F5 4'-6' marker board (optional)	101100
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Sink	224000
Plumbing connections	224000/221116/221119
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
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
Communications:	
T1 1 ***projector*** video port	271543
T2 1 voice port and phone	271513/273113
Clock	275313
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	283111

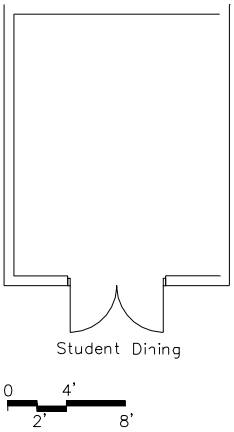
Miscellaneous:
The following items are to be funded by the school district:
M1 Vending machines

NOTES:

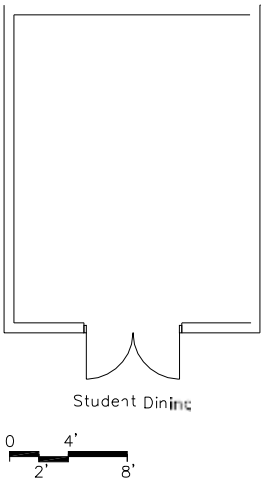
1. Finishes/Features: Refer to Chapter 9 for specification references.

TABLE STORAGE
M-SD-4

250 SF



400 SF



CAPACITY:	N/A
SIZE:	250 - ***400*** SF
ANCILLARY SPACES:	Student Dining M-SD-1

PROGRAM ACTIVITIES:
- Storage for tables and chairs

SPATIAL RELATIONSHIPS:
- Adjacent to student dining
- Near food services

ENVIRONMENTAL CONSIDERATIONS:
N/A

NOTES:

TABLE STORAGE
M-SD-4

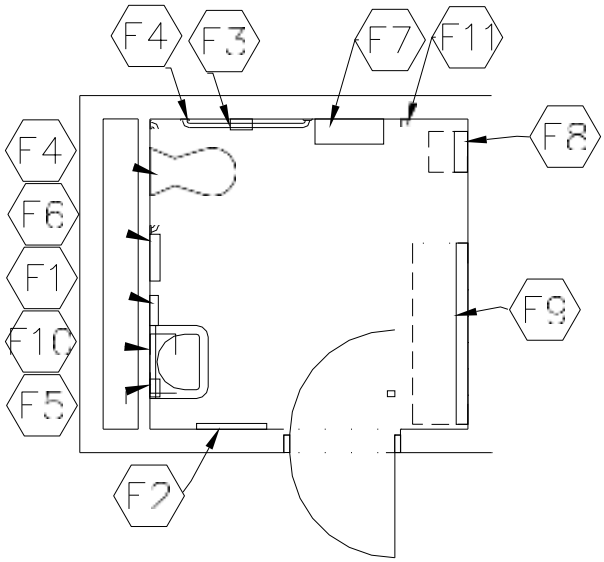
FINISHES[1]:	Spec. Ref.#
Flooring:	
Sealed concrete	033000
Base:	
No base	
Ceiling:	
Exposed structure	
Option: Rated gypsum wallboard	092116
Walls:	
Unpainted concrete masonry units	042000
LOOSE FURNISHINGS:	
N/A	

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
N/A	
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Exhaust air system	Div. 23
Supplemental heat as required	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***6***	
1 duplex receptacle	262726
Communications::	
N/A	
Electronic Safety and Security:	
N/A	
Miscellaneous:	
N/A	

NOTES:

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

FAMILY RESTROOM
M-SD-5



CAPACITY: 2 people
SIZE: 80 SF

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

NOTES:

FAMILY RESTROOM
M-SD-5

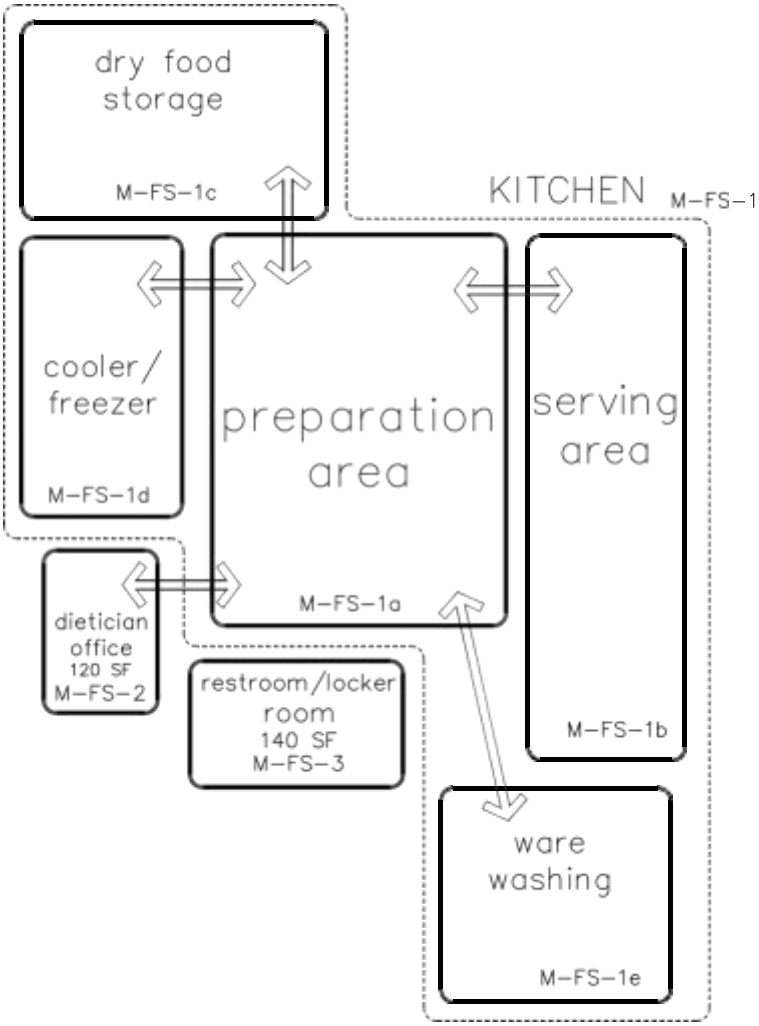
FINISHES[1]:	Spec. Ref.#
Flooring:	
ET, ***porcelain tile,*** sheet vinyl, ceramic mosaic tile	096500
Optional: Ceramic mosaic tile,	093000
porcelain tile, or	096723
resinous flooring	
Base:	
Resilient base	096500
Optional: Ceramic mosaic tile,	093000
porcelain tile, resinous flooring	096723
flooring, or integral vinyl cove base	
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Towel dispenser	102813
F2 24" x 60" mirror	102813
F3 Toilet tissue holder	102813
F4 36" and 42" grab bar	102813
F5 Soap dispenser	102813
F6 Sanitary napkin dispenser/disposal	102813
F7 Folding utility shelf	102813
F8 Mounted child seat	102813
F9 Adult/child changing station	102813
F10 16” x 24” mirror with shelf	102813
F11 Coat hooks	102813
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Wall-mounted water closet	224000
Wall-mounted lavatory	224000
Plumbing connections	224000/221116/221119
HVAC:	
Exhaust air system	Div. 23
Supplemental heat as required	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***5***	
1 duplex receptacle	262726
Communications:	
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
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 a middle school could be arranged. This is meant only to demonstrate the relationships between various spaces of this area.

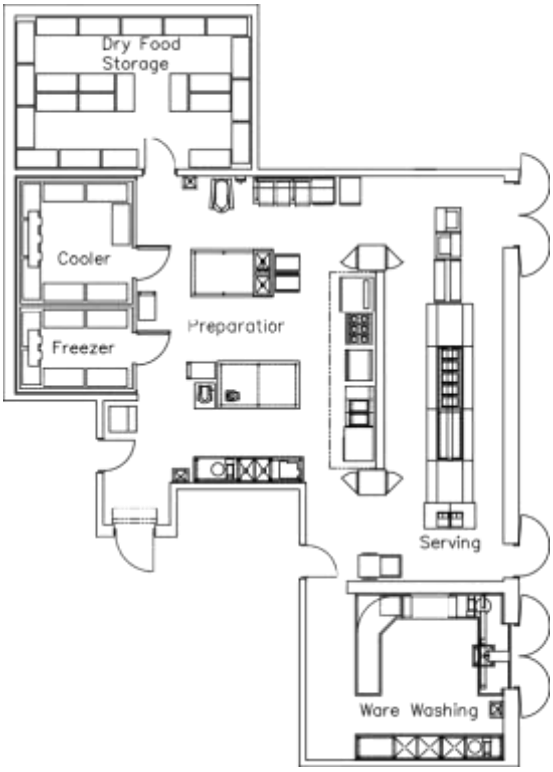
Following are the Food Service space plates:

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

KITCHEN
M-FS-1

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 M-SD-1
Loading/Receiving Area M-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:

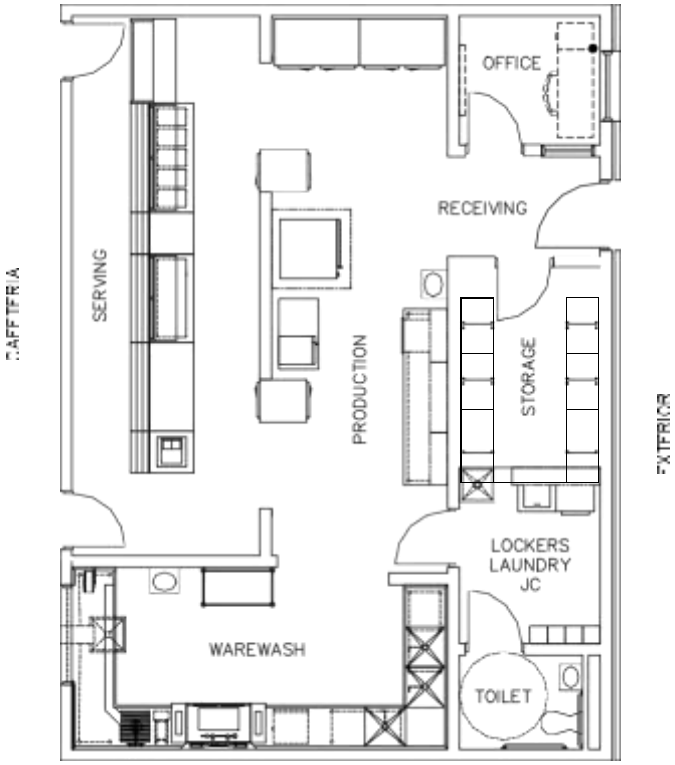
This kitchen layout is to be used only for a central kitchen operation.

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



CAPACITY: 3 - 7 persons
SIZE: Student capacity multiplied by 2.0 SF per student
ANCILLARY SPACES: Student Dining M-SD-1
Loading/Receiving Area M-BS-1

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.

NOTES:

WARMING KITCHEN
M-FS-0

FINISHES[1]:	Spec. Ref.#
Flooring:	
Quarry tile or ***resinous flooring***	093000 ***096723***
Base:	
Quarry tile base or ***resinous integral base***	093000 ***096723***
Ceiling:	
Cleanable, suspended, acoustical	095113
Walls:	
Epoxy-painted concrete masonry units	042000/0991000
Option: Ceramic wall tile	093000
or latex paint	099100

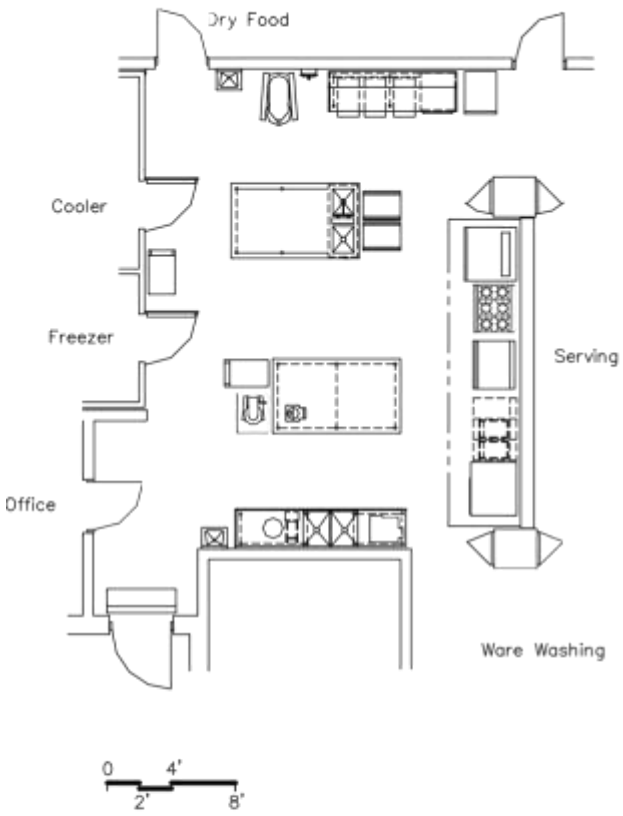
LOOSE FURNISHINGS:
N/A

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
Food service equipment	114000
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Connections to food service eqpt.	224000
Plumbing connections	224000/221116/221119
Hand washing lavatory	224000
Gas connection	226313
HVAC:	
Supply/return air system	Div. 23
Independent temp control	230923
Kitchen canopy exhaust system	233800
Electrical:	
Dual level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***6***	
10 duplex receptacles	262726
Duplex receptacle at each cash register	262726
Emergency lighting	265100
Connections to food service eqpt.	262726
Means of egress lighting per code	265100
Communications:	
1 voice port and phone	271513/***273123*** 1
data port at cash register(s)	271513
Clock	275313
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
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
M-FS-1a



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

M-FS-1a

FINISHES[1]:	Spec. Ref.#
Flooring:	
Quarry tile or ***resinous flooring***	093000 ***096723***
Base:	
Quarry tile base or ***resinous integral base***	093000 ***096723***
Ceiling:	
Cleanable, suspended, acoustical	095113
Walls:	
Epoxy-painted concrete masonry units	042000/099100
Option: Ceramic wall tile	093000
or latex paint	099100

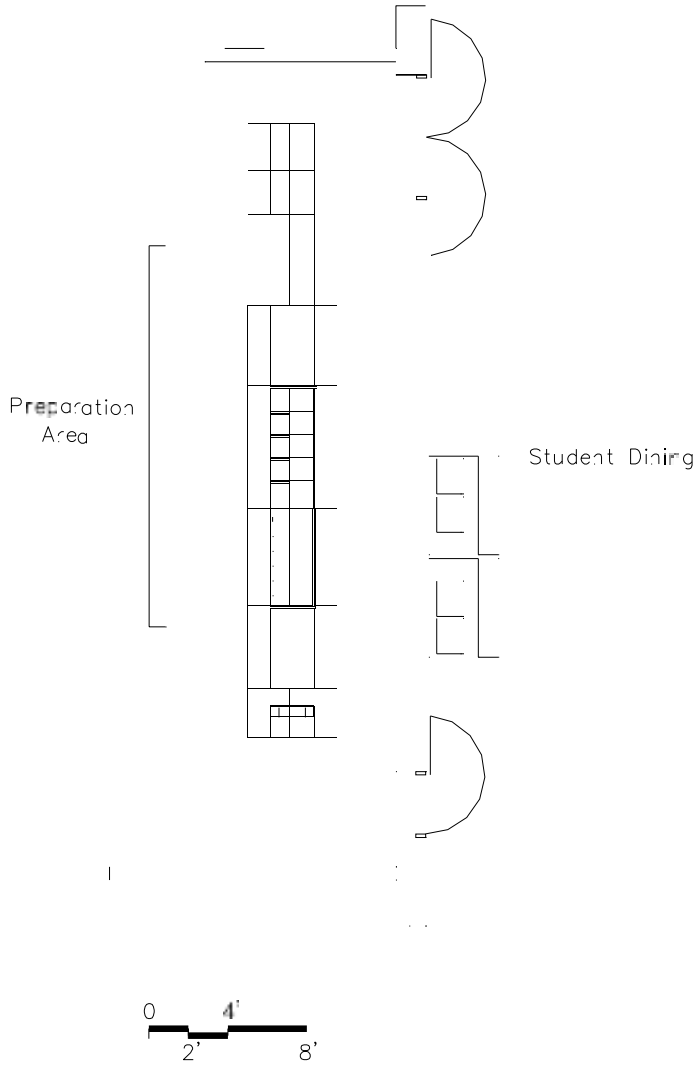
LOOSE FURNISHINGS:

N/A

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
Food service equipment	114000
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Connections to food service equipment	224000
Plumbing connections	224000/221116/221119
Hand washing lavatory	224000
Gas connections	226313
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Kitchen canopy exhaust system	233800
Electrical:	
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
Communications:	
1 voice port and phone	271513/***273123***
Clock	275313
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	238111
Miscellaneous:	
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.



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

PROGRAM ACTIVITIES:
- Space for serving of food

SPATIAL RELATIONSHIPS:
- Adjacent to student dining
- Adjacent to preparation area

ENVIRONMENTAL CONSIDERATIONS:
- Cleanable building services

NOTES:

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

KITCHEN - Serving Area
M-FS-1b

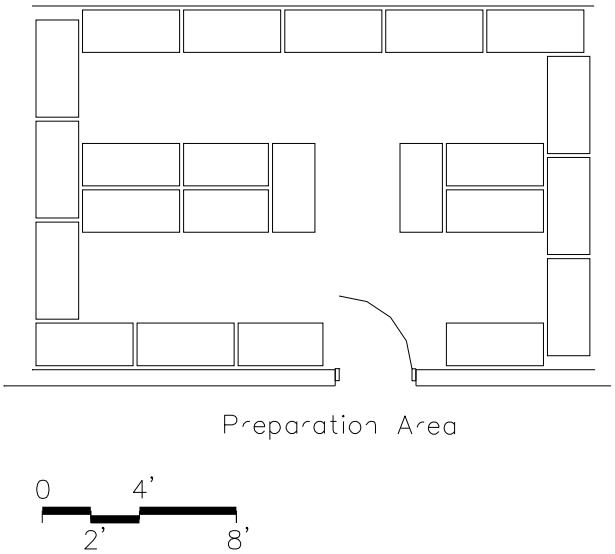
FINISHES[1]:	Spec. Ref.#
Flooring:	
Quarry tile or ***resinous flooring***	093000
Optional: porcelain tile	***096723***
Base:	
Quarry tile base, ***resinous***	093000
integral base	***096723***
Optional: porcelain tile base	
Ceiling:	
Cleanable, suspended, acoustical	095113
Walls:	
Epoxy-painted concrete masonry units	042000/099100
Option: Ceramic wall tile	093000
or latex paint	099100

LOOSE FURNISHINGS:
N/A

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
Food service equipment	114000
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Connections to food service equipment	224000
HVAC:	
Supply/return air system	Div. 23
Electrical:	
Dual level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***6***	
4 duplex receptacles	262726
Connections to food service equipment	262726
Emergency lighting	265100
Means of egress lighting per code	265100
Duplex receptacle at each cash register	262726
Communications:	
Data port(s) at cash register(s)	271513
Clock	275313
Central sound system	275123
1 Voice port and phone	271513/***273123***
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
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.



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

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

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
M-FS-1c

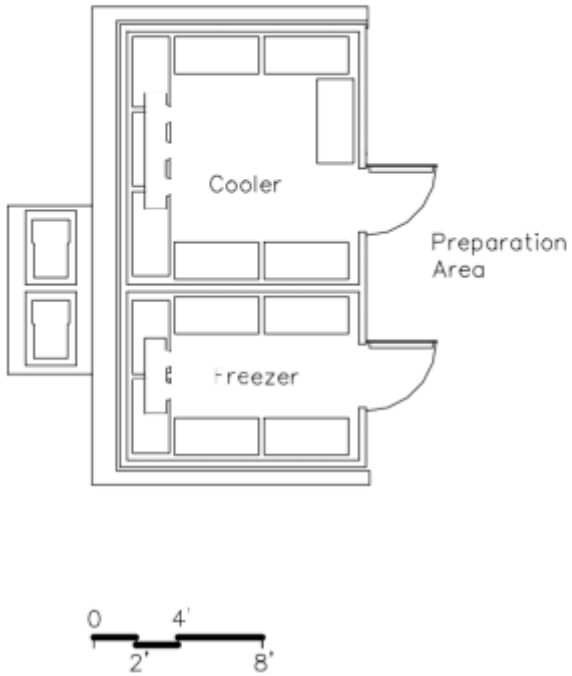
FINISHES[1]:	Spec. Ref.#
Flooring:	
Linoleum, ET, or sheet vinyl	096500
Option: Quarry tile or ***resinous flooring***	093000 ***096723*** 096516
Base:	
Resilient base	096500
Option: Quarry tile or ***resinous integral base***	***096723*** 093000
Ceiling:	
Cleanable, suspended, acoustical	095113
Walls:	
Epoxy-painted concrete masonry units	042000/099100
Option: Ceramic wall tile	093000
or latex paint	099100

LOOSE FURNISHINGS:
N/A

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
Food service equipment	114000
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Exhaust air system	Div. 23
Supply/return air system	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***6***	
1 duplex receptacle	262726
Communications:	
N/A	
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
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.



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

M-FS-1d

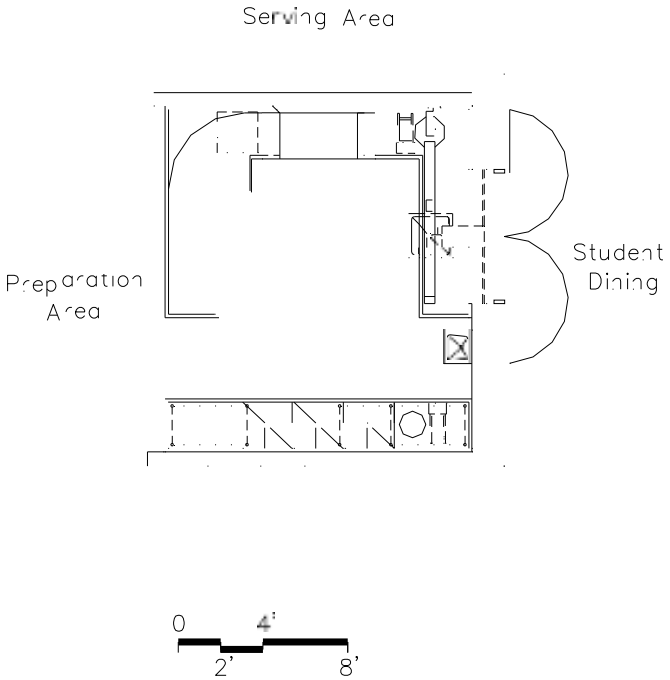
FINISHES[1]:	Spec. Ref.#
Flooring:	
Quarry tile or resinous flooring	093000 096723
Base:	
Quarry tile base or resinous integral base	093000 096723
Ceiling:	
Manufactured insulated panel	114000
Walls:	
Manufactured insulated panel	114000

LOOSE FURNISHINGS:
N/A

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
Food service equipment	114000
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Exhaust air system for compressors	Div. 23
Electrical:	
Single level switching	262726
Fluorescent or LED lighting	265100
Illumination level: See Table 8600-6	
Electrical connections to freezer/cooler refrigeration equipment	262726
Communications:	
N/A	
Electronic Safety and Security:	
N/A	
Miscellaneous:	
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.



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

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

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

M-FS-1e

FINISHES[1]:	Spec. Ref.#
Flooring:	
Quarry tile or ***resinous flooring***	093000
Base:	
Quarry tile base or ***resinous***	093000
integral base	***096723***
Ceiling:	
Cleanable, suspended, acoustical	095113
Walls:	
Epoxy-painted concrete masonry units	042000/099100
Option: Ceramic wall tile	093000
or latex paint	099100

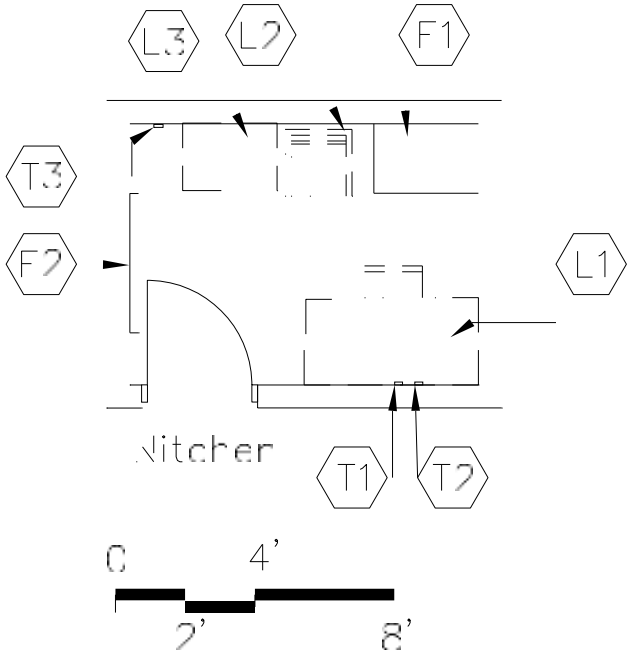
LOOSE FURNISHINGS:

N/A

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
Food service equipment	114000
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Lavatory	224000
Connections to food service equipment	224000
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Exhaust hood system	Div. 23
Electrical:	
Dual level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***6***	
1 duplex receptacle	262726
Connections to food service equipment	262726
Communications:	
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
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 M-FS-1

NOTES:

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

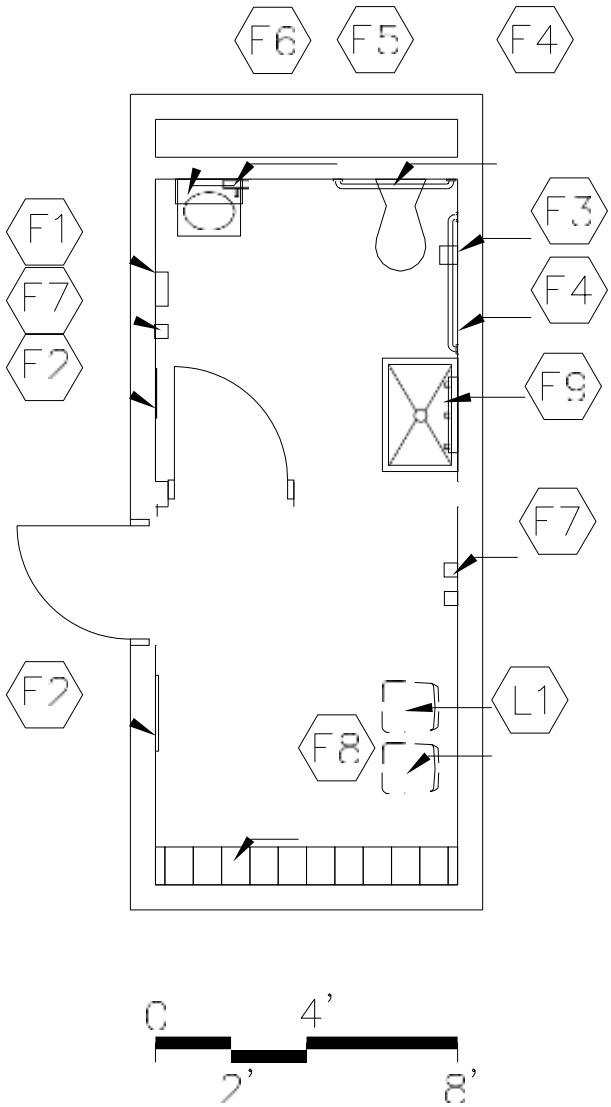
DIETICIAN'S OFFICE
M-FS-2

FINISHES[1]:	Spec. Ref.#
Flooring:	
Linoleum, ET, or sheet vinyl	096500
	096516
Option: Quarry tile or resinous	093000
flooring	096723
Base:	
Resilient base	096500
Option: Quarry tile, resinous	093000
integral base	096723
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/199100

LOOSE FURNISHINGS:
L1 Desk and chair
L2 Visitor chair
L3 File cabinet
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Tall wardrobe (optional)	123550
F2 4' of tack board or marker board	101100
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temp control (coupled with similarly loaded adjacent spaces)	230923
Electrical:	
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
Communications:	
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
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
Interior window (optional)	081113/088000

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

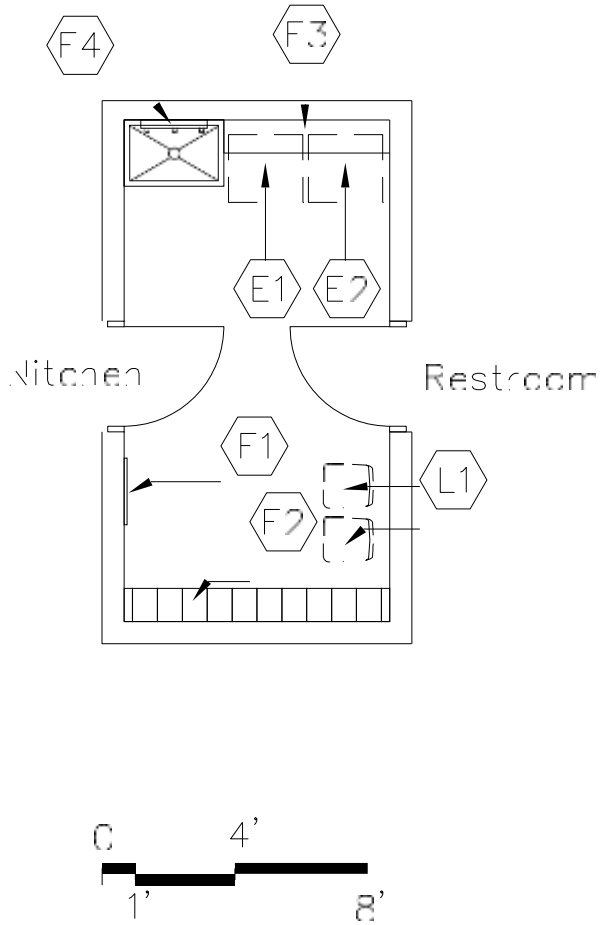
RESTROOM / LOCKER ROOM
M-FS-3

FINISHES[1]:	Spec. Ref.#
Flooring:	
ET, sheet vinyl, rubber, rubber tile, or	096500
Optional: quarry tile or ***resinous flooring***	093000 ***096723***
Base:	
Resilient base	096500
Optional: quarry tile, integral vinyl cove base, ***or integral resinous base***	093000 ***096723***
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:
L1 Chairs
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Towel dispenser	102813
F2 ***2,*** 24" x 60" mirrors	102813
F3 Toilet tissue holder	102813
F4 36" and 42" grab bar	102813
F5 Soap dispenser	102813
F6 Mirror with shelf above sink(optional)	102813
F7 Coat hook***s***	102813
F8 Lockers 12” x 12” x 60”	105113
F9 Mop holder	102813
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Wall-mounted water closet	224000
Wall-mounted lavatory	224000
Floor service sink	224000
Plumbing connections	224000/221116/221119
HVAC:	
Exhaust air system	Div. 23
Supplemental heat as required	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***5***	
2 duplex receptacles	262726
Communications:	
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

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



CAPACITY: 2 persons
SIZE: 125 SF
ANCILLARY SPACES: Kitchen, M-FS-1
Dietician Office, M-FS-***2***

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.
- ***This space could replace M-FS-3***

SPATIAL RELATIONSHIPS:

- Adjacent to kitchen
- Adjacent to restroom

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

LOCKER ROOM
M-FS-4

FINISHES[1]:	Spec. Ref.#
Flooring:	
Sheet vinyl, resinous flooring, ***ET***	096500
Option: Quarry tile or resinous	096723
flooring	***093000***
Base:	
Resilient base, resinous flooring,	096500
or integral vinyl cove base	096723
Option: Quarry tile or resinous integral base	
Ceiling:	
Suspended, acoustical with high-impact, hold-down clips	095113
Option: exposed, painted pre-cast units	099100
Walls:	
Painted concrete masonry units	042000/099100

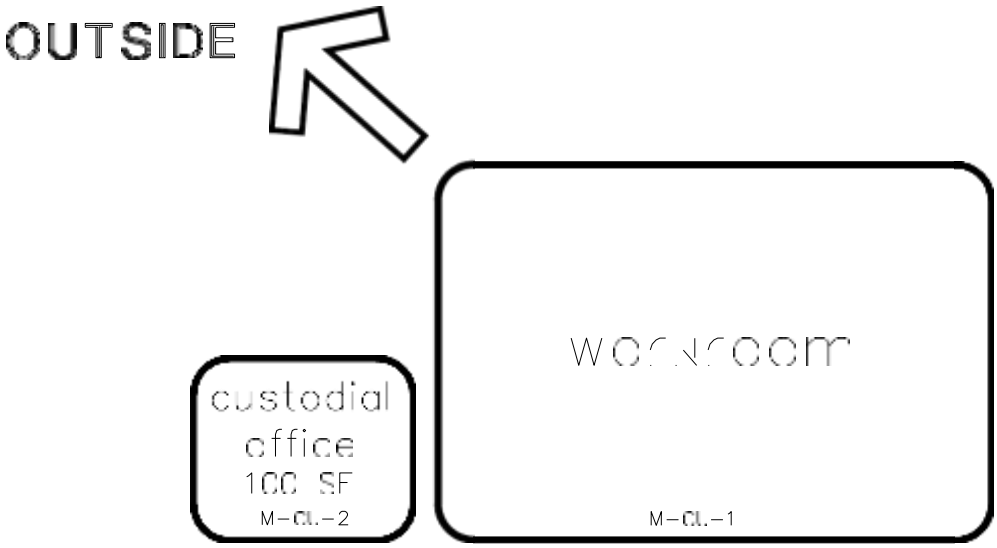
LOOSE FURNISHINGS:
L1 Chairs
Wastebasket

EQUIPMENT:
E1 Washer
E2 Dryer

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 24" x 60" mirror (optional)	102813
F2 Lockers 12" x 12" x 60"	105113
F3 6' of wall cabinets or shelf (optional)	123550
F4 Mop holder	102813
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Plumbing connections	224000/221116/221119
Floor service sink	224000
Washer connection	224000
HVAC:	
Exhaust air system	Div. 23
Supplemental heat as required	Div. 23
Dryer vent system	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***6***	
1 duplex receptacle	262726
Connections for washer and dryer	262726
Communications:	
Central sound system	275123
Clock	275313
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
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 a middle school could be arranged. This is meant only to demonstrate the relationships between various spaces of this area.

Following are the Custodial space plates:

M-CU-1	Workroom
M-CU-2	Custodial Office

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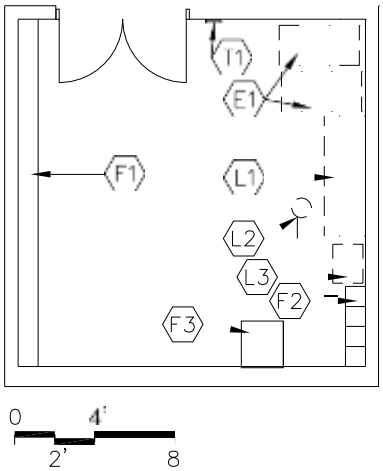
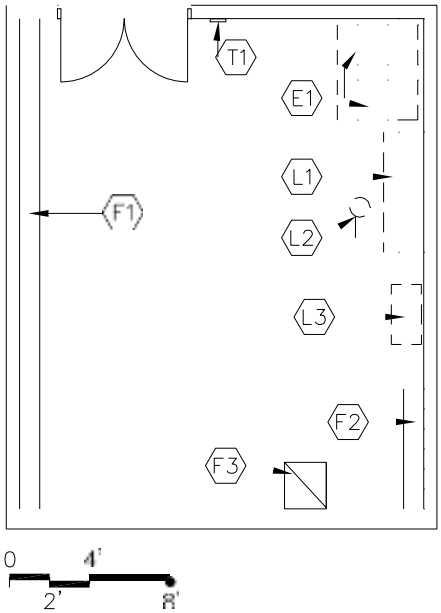
200 SF



400 SF



CAPACITY: N/A
SIZE: 200 - ***600*** 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:
N/A

NOTES:

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

WORKROOM
M-CU-1

FINISHES[1]:	Spec. Ref.#
Flooring:	
Sealed concrete,	***033000***
polished concrete finishing, or	033510
colored concrete finishing	033519
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

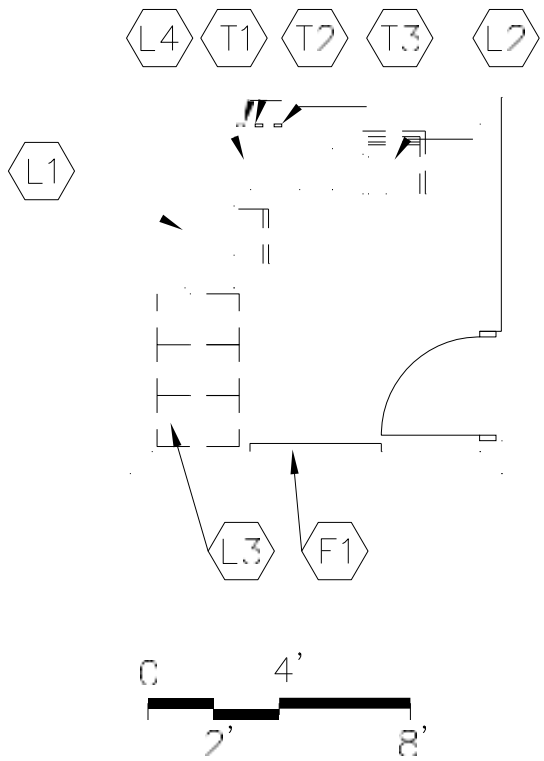
LOOSE FURNISHINGS:
L1 Workbench
L2 Stool
L3 Tool cabinet
Waste receptacles

EQUIPMENT:
E1 Recycling bins

FEATURES[1]:	Spec. Ref.#
Fixed Items[2]:	
F1 10' - 24' of open shelving, depths may vary (fixed or loose)	123550
F2 4 - 6 lockers	105113
F3 Mop holder	102813
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Floor service sink	224000
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Electrical:	
Fluorescent lighting	265100
Illumination level: See Table 8600-***6***	
Single level switching	262726
4 duplex receptacles (minimum)	262726
Electrical receptacles for custodial equipment	262726
Communications:	
T1 1 voice port and phone	271513/***273123***
Central sound system	275123
Clock	275313
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
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.



CAPACITY: N/A
SIZE: 100 SF

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

NOTES:

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

CUSTODIAL OFFICE
M-CU-2

FINISHES[1]:	Spec. Ref.#
Flooring:	
Linoleum, ET, sheet vinyl,	096500
sealed concrete,	096516
polished concrete finishing, or	***033000***
colored concrete finishing	033510
	033519
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

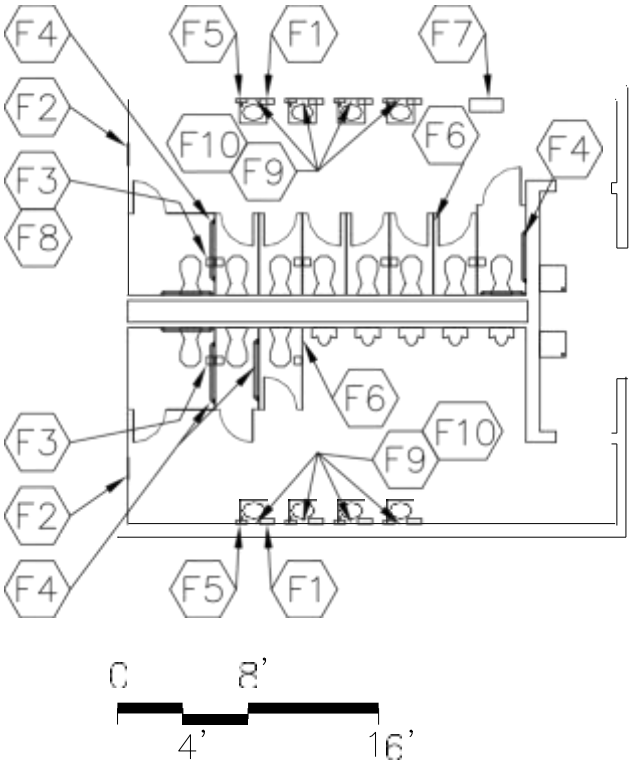
LOOSE FURNISHINGS:
L1 Desk and chair
L2 Visitor chair
L3 File cabinets
L4 Computer desk return
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 4' of tack board ***or marker board*** (optional)	101100
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***6***	
4 duplex receptacles	262726
Double duplex receptacle adjacent to data and modem port	262726
Communications:	
T1 Modem port for temperature controls computer	271523
T2 1 voice port and phone	271513/***273123***
T3 1 data port near workstation	271513
Central sound system	275123
Clock	275313
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
Interior window (optional)	081113/088000

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.

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 M-BS-10.

LARGE GROUP RESTROOMS

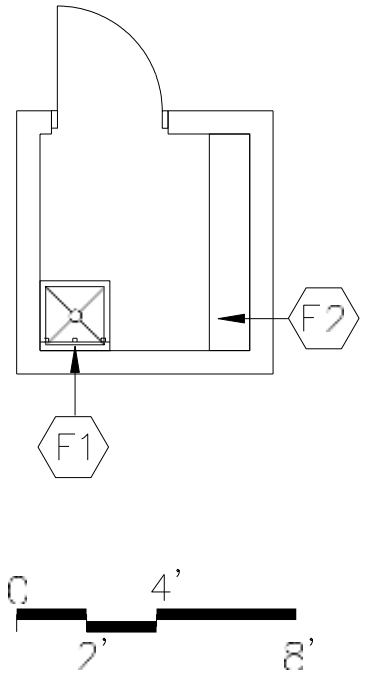
M-BS-1

FINISHES[1]:	Spec. Ref.#
Flooring:	
Ceramic mosaic tile	093000
Optional: porcelain tile,	096723
resinous flooring **or** ***unbacked sheet vinyl with welded seams***	***096500***
Base:	
Ceramic mosaic tile base	093000
Optional: structural glazed tile,	042000
porcelain tile base,	096723
resinous flooring, or	***096500***
integral vinyl base	
Ceiling:	
Suspended, acoustical	095113
Optional: Abuse resistant gypsum wallboard	092116
Walls:	
Painted concrete masonry units	042000/099100
LOOSE FURNISHINGS:	
Waste Receptacles	

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Towel dispensers	102813
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 Sanitary product dispenser	102813
F8 Sanitary product receptacles	102813
F9 16" x 24" mirrors with shelf (optional)	102813
F10 Shelves (optional)	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Wall-mounted water closets	224000
Wall-mounted urinals	224000
Wall-mounted lavatories or wash fountains	224000
Wall hydrants	224000
Plumbing connections	224000/221116/221119
Drinking water coolers	224000
HVAC:	
Exhaust air system	Div. 23
Supplemental heat as required	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***5***	
1 duplex receptacle	262726
Emergency lighting	265100
Communications:	
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

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

CUSTODIAL CLOSET
M-BS-2



CAPACITY: N/A
SIZE: 50 SF

PROGRAM ACTIVITIES:
- Space for storage of custodial supplies throughout the building

SPATIAL RELATIONSHIPS:
- Near large group restrooms

ENVIRONMENTAL CONSIDERATIONS:
N/A

NOTES:

CUSTODIAL CLOSET
M-BS-2

FINISHES[1]:	Spec. Ref.#
Flooring:	
Sealed concrete	033000
Base:	
Resilient base	096500
Ceiling:	
Cleanable, suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:
N/A

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Mop holder	102813
F2 Fixed or loose shelving (optional)	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Service sink or floor drain sink	224000
Plumbing connections	224000/221116/221119
HVAC:	
Exhaust air system	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***6***	
1 duplex receptacle	262726

Communications:
N/A

Electronic Safety and Security:
N/A

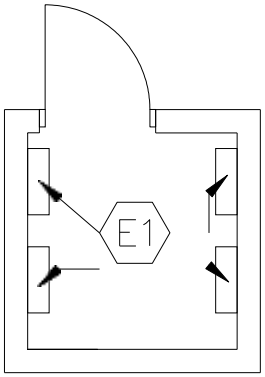
Miscellaneous:
N/A

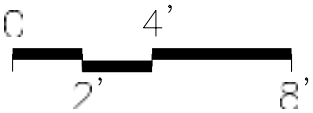
NOTES:

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

ELECTRICAL CLOSET
M-BS-3

Space to be determined by Design Professional.





CAPACITY: N/A
SIZE: 50 SF

PROGRAM ACTIVITIES:
- Space for electrical wiring and panels

SPATIAL RELATIONSHIPS:
N/A

ENVIRONMENTAL CONSIDERATIONS:
N/A

NOTES:

ELECTRICAL CLOSET
M-BS-3

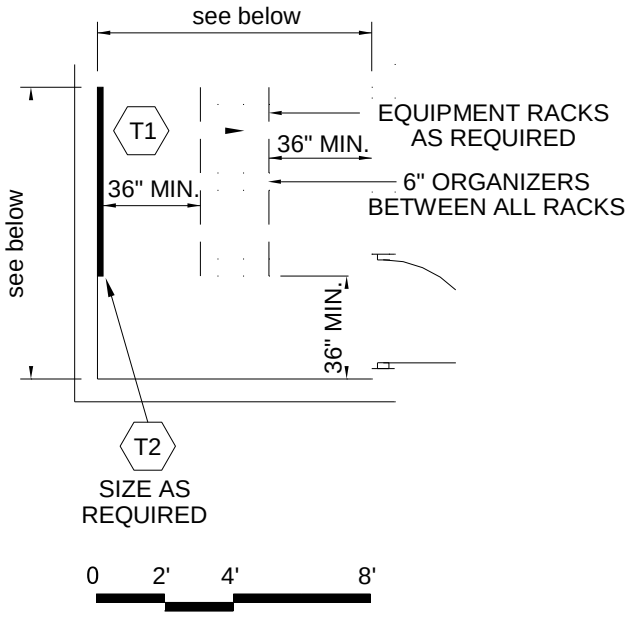
FINISHES[1]:	Spec. Ref.#
Flooring:	
Sealed concrete	033000
Base:	
No base	
Ceiling:	
Exposed structure	---
Walls:	
Unpainted concrete masonry units	042000

LOOSE FURNISHINGS:
N/A

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
N/A	
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
To be determined by Design Professional	
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***6***	
1 duplex receptacle	262726
E1 Electrical switchboard	262413/262416
Communications:	
N/A	
Electronic Safety and Security:	
N/A	
Miscellaneous:	
N/A	

NOTES:

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



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.

PROGRAM ACTIVITIES:

- Space for technology needs

SPATIAL RELATIONSHIPS:

N/A

ENVIRONMENTAL CONSIDERATIONS:

N/A

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
M-BS-4

FINISHES[1]:	Spec. Ref.#
Flooring:	
Sealed concrete,	033000
polished concrete finishing, or	033510
colored concrete finishing	033519
Base:	
No base	
Ceiling:	
Exposed structure	---
Walls:	
Unpainted concrete masonry units	042000

LOOSE FURNISHINGS:
N/A

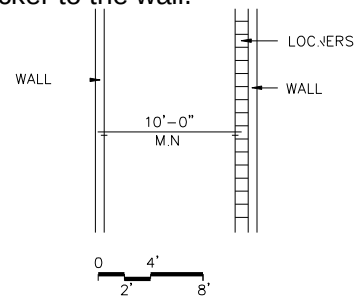
FEATURES[1]:	Spec. Ref.#
Fixed Items:	
N/A	
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Cooling and Exhaust air system	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-6	
1 duplex receptacle	262726
Receptacles for data equipment	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:

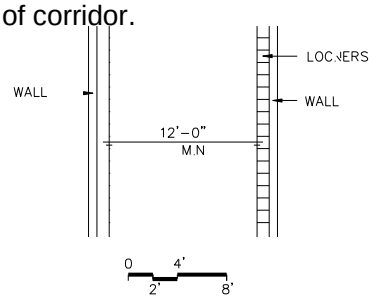
1. Finishes/Features: Refer to Chapter 9 for specification references.

- Corridors shall be a minimum of 8 feet wide if no lockers are located in the corridor.

- Corridors shall be a minimum of 10 feet wide if lockers are located on one side of the corridor. The corridor width is from the face of the locker to the wall.



- Corridors shall be a minimum of 12 feet wide if lockers are located on each side of the corridor. The corridor width is from the face of the locker to the face of locker on opposite side of corridor.



- Instructional and activity areas shall be accessible by corridors without passing through another instructional or activity area.

- The corridors are to meet the existing 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.

CAPACITY: Based on size of program area
SIZE: Based on the sum of the program areas excluding building services, multiplied by 20%

PROGRAM ACTIVITIES:
- Circulation space

SPATIAL RELATIONSHIPS:
N/A

ENVIRONMENTAL CONSIDERATIONS:
- Uniform lighting

VESTIBULES
- 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.

- ***Lockers are not part of the construction factor, but are a part of the circulation/corridor factor.***

NOTES:

CORRIDORS
M-BS-5

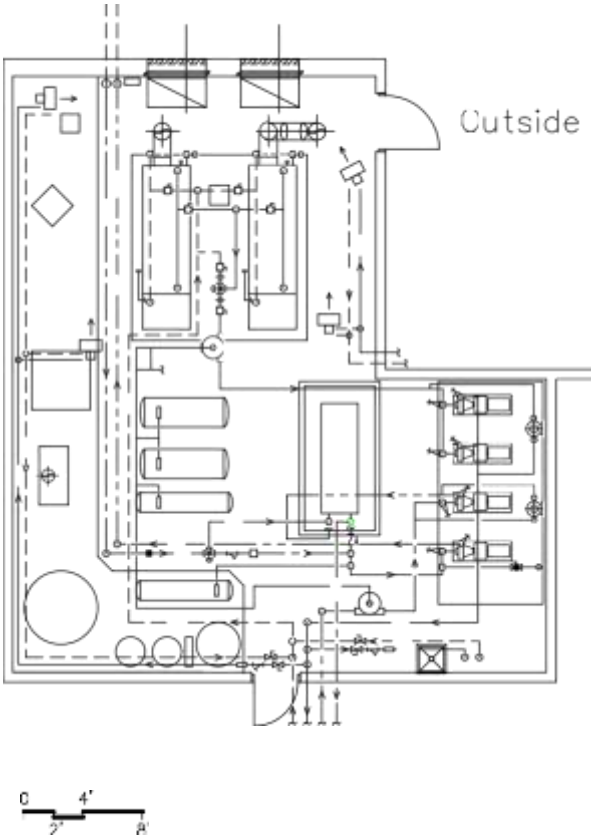
FINISHES[1]:	Spec. Ref.#
Flooring[2]:	
Linoleum, ET, sheet vinyl,	096516
rubber, carpet,	096500
carpet tile,	096816
polished concrete finishing,	096813
or colored concrete finishing	033510
	033519
Optional:Terrazzo tile, porcelain	093000
Base:	
Resilient base	096500
Optional: structural glazed tile	042000
Ceiling:	
Suspended, acoustical	095113
Option in vestibules: Abuse resistant gypsum wallboard	092116
Walls:	
Painted concrete masonry units	042000/099100
LOOSE FURNISHINGS	
Recycling bins and waste receptacles	
Fixed or loose benches	

NOTE: At entries adjacent to dining/ commons area, match dining/commons flooring.

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
Corridor lockers	105113
Fire extinguishers and cabinets	104400
Recessed vinyl floor mats or surface mats	124813
Tack board or tackable wall surface	101100
Fire Suppression:	
N/A	
Plumbing:	
Drinking water coolers	224000
HVAC:	
Supply/return air system	Div. 23
Temp ctrl from adjacent instructional spaces	230923
Electrical:	
Dual level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***6***	
Duplex receptacles	262726
Double duplex receptacle adjacent to each video port	262726
Means of egress lighting per code	265100
Emergency lighting	265100
Communications:	
Video ports	271543
Data ports	271513
Pay phone terminals	271513/273113
Central sound system	275123
Clocks	275313
Wireless access points	271513/272100/272133
Electronic Safety and Security:	
Life safety devices per code	283111
Security System	281300/281600/282300
Miscellaneous:	
Display cases and Directory	101200

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

M-BS-6

FINISHES[1]:	Spec. Ref.#
Flooring:	
Sealed concrete	033000
Base:	
No base	
Ceiling:	
Exposed structure	---
Walls: (note 2)	
Unpainted concrete masonry units	042000
LOOSE FURNISHINGS:	
N/A	

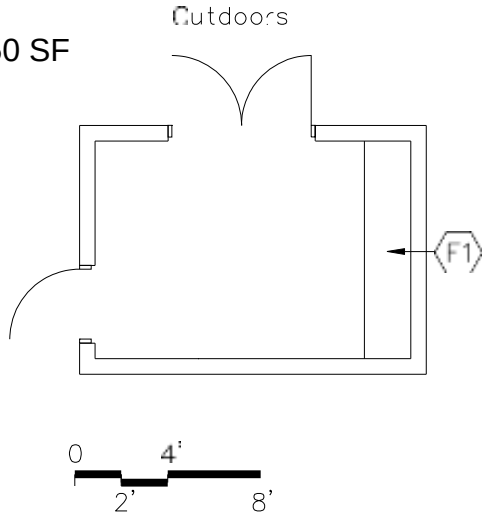
FEATURES[1]:	Spec. Ref.#
Fixed Items:	
To be determined by Design Professional	
Fire Suppression:	
N/A	
Plumbing:	
To be determined by Design Professional	
HVAC:	
To be determined by Design Professional	
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***6***	
Others as determined by Design Professional	
Communications:	
Central sound system	275123
Voice port and phone	271413/***273123***
Electronic Safety and Security:	
N/A	
Miscellaneous:	
N/A	

NOTES:

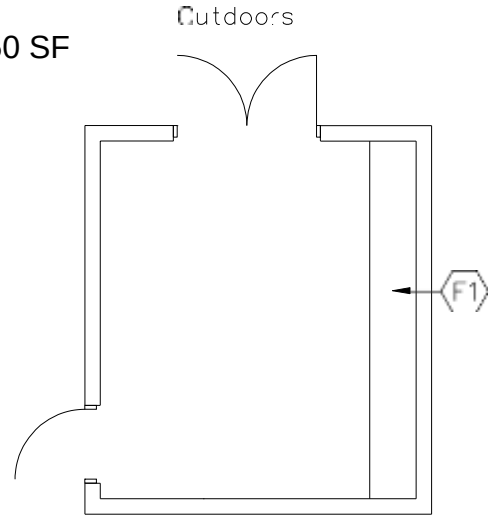
1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Option for penthouse to use metal panel on concrete masonry or metal panel on metal framing wall systems.

STORAGE AREA
M-BS-7

150 SF



250 SF



CAPACITY: N/A
SIZE: 150 - 250 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
M-BS-7

FINISHES[1]:	Spec. Ref.#
Flooring:	
Sealed concrete	033000
Base:	
No base	
Ceiling:	
Exposed structure	---
Walls:	
Unpainted concrete masonry units	042000
LOOSE FURNISHINGS:	
N/A	

FEATURES[1]:	Spec. Ref.#
Fixed Items[2]:	
F1 10‘ - 16’ of open tall shelving, depths may vary (fixed or loose)	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Exhaust air system	Div. 23
Supplemental heat as required	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***6***	
Duplex receptacles	262726
Communications:	
N/A	
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

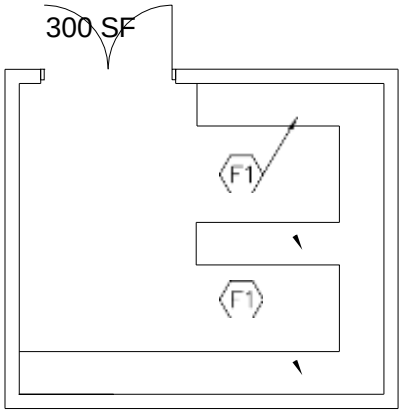
NOTES:

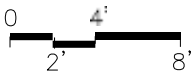
1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Ranges shown indicate quantities for the smallest and largest possible room size.

CENTRAL STORAGE AREA
M-BS-8

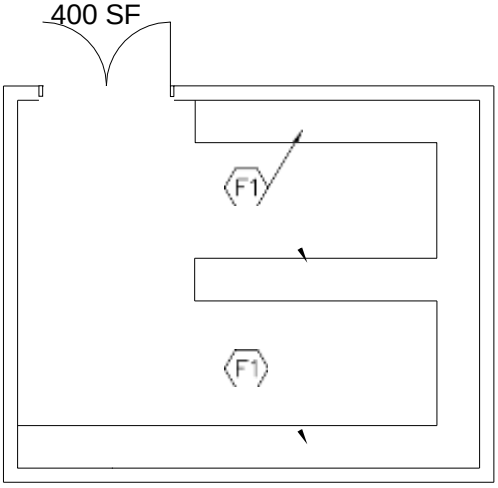
Space to be determined by Design Professional.

300 SF





400 SF



CAPACITY: N/A
SIZE: 300 - ***700*** 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
M-BS-8

FINISHES[1]:	Spec. Ref.#
Flooring:	
Sealed concrete	033000
Base:	
No base	
Ceiling:	
Exposed structure	---
Walls:	
Unpainted concrete masonry units	042000

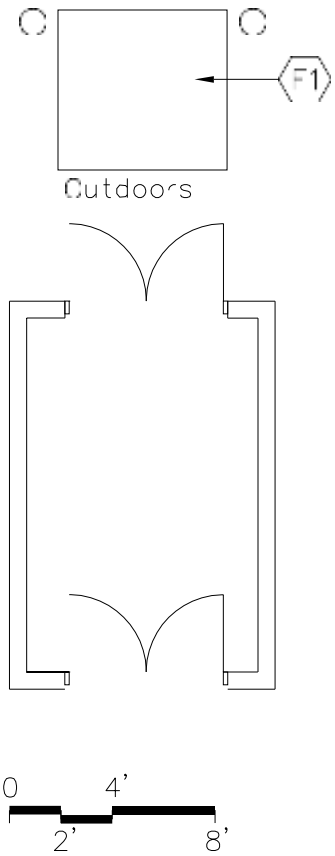
LOOSE FURNISHINGS:
N/A

FEATURES[1]:	Spec. Ref.#
Fixed Items[2]:	
F1 26' - 32' of open tall shelving, depths may vary (fixed or loose)	123550
Option: mobile storage shelving	105626
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Exhaust air system	Div. 23
Supplemental heat as required	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***6***	
Duplex receptacles	262726
Communications:	
N/A	
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
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
M-BS-9



CAPACITY: N/A
SIZE: 120 SF

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

NOTES:

LOADING/RECEIVING AREA

M-BS-9

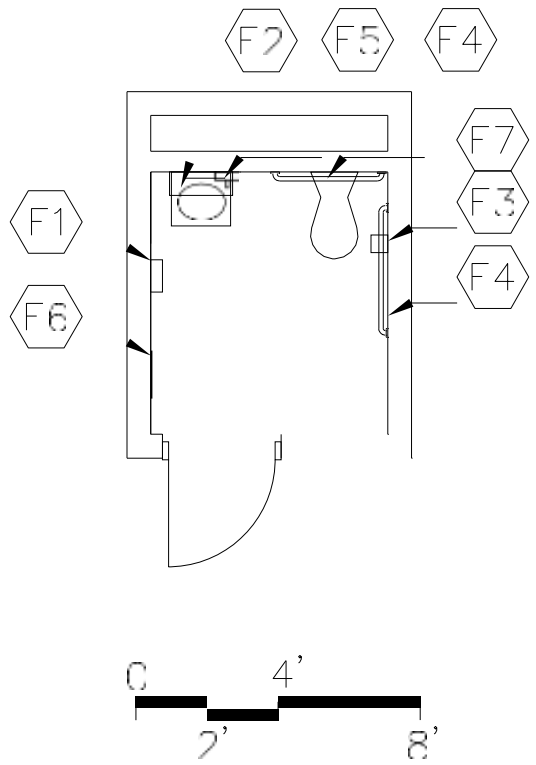
FINISHES[1]:	Spec. Ref.#
Flooring:	
Sealed concrete	033000
Base:	
No base	
Ceiling:	
Exposed structure	
Walls:	
Epoxy-painted concrete masonry units	042000 / 099100

LOOSE FURNISHINGS
N/A

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Loading dock leveler and dock bumpers	111300
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Exhaust air system	Div. 23
Supplemental heat as required	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***6***	
Duplex receptacles	262726
Communications:	
Central sound system	275123
Electronic Safety and Security:	
N/A	
Miscellaneous:	
N/A	

NOTES:

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



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

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

NOTES:

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

RESTROOM
M-BS-10

FINISHES[1]:	Spec. Ref.#
Flooring:	
Sheet vinyl, or rubber	096500
Optional: quarry tile, or	093000
resinous flooring	096723
Base:	
Resilient base	096500
Optional: quarry tile, resinous	093000
flooring, or integral vinyl cove base	096723
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

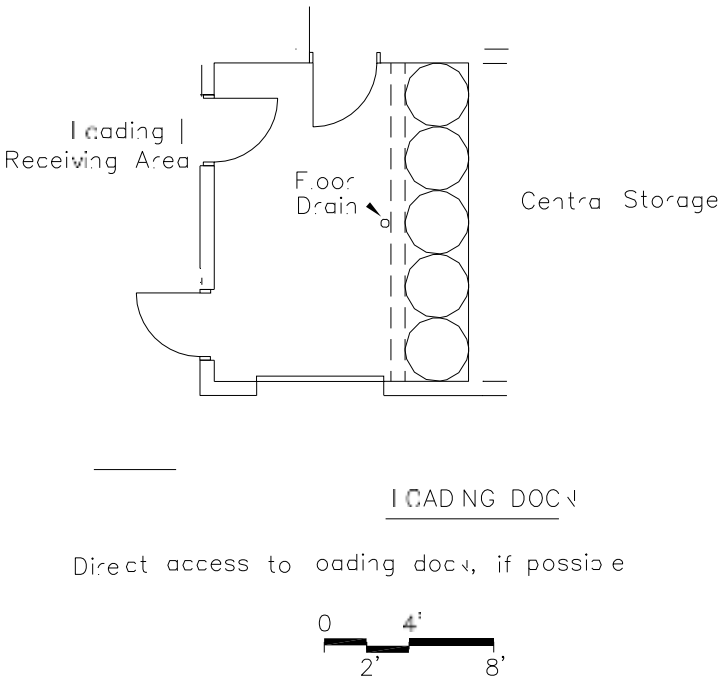
LOOSE FURNISHINGS:
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Towel dispenser	102813
F2 Mirror with shelf above sink(optional)	102813
F3 Toilet tissue holder	102813
F4 36" and 42" grab bar	102813
F5 Soap dispenser	102813
F6 Sanitary product dispenser	102813
F7 Sanitary product receptacle	102813
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Wall-mounted water closet	224000
Wall-mounted lavatory	224000
Plumbing connections	224000/221116/221119
HVAC:	
Exhaust air system	Div. 23
Supplemental heat as required	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***5***	
1 duplex receptacle	262726
Communications:	
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

NOTES:

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

Recycling space to be determined by Design Professional.



CAPACITY: N/A
SIZE: 80 – 100 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.

RECYCLING ROOM
M-BS-11

FINISHES[1]:	Spec. Ref.#
Flooring:	
Sealed concrete	033000
Base:	
No base	
Ceiling:	
Exposed structure	
Walls:	
Epoxy-painted concrete masonry units	042000 / 099100

LOOSE FURNISHINGS
N/A

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
N/A	
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Exhaust air system	Div. 23
Supplemental heat as required	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-6	
Duplex receptacles	262726
Communications:	
N/A	
Electronic Safety and Security:	
N/A	
Miscellaneous:	
N/A	

NOTES:

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