Chapter 6: High School

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	H-AC-6	***Teacher Prep Area/Workroom***
	H-AC-7	Individual Restroom
	H-AC-8	***Project/Classroom***
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INTRODUCTION

PURPOSE

The purpose of this Chapter is to provide the school district and the Design Professional with the guidelines and relationships for the High School spaces identified in Chapter 2: Bracketing.

INTRODUCTION

This Chapter begins with an overall building diagram showing how the various areas of a school could be arranged. The diagram is meant only to demonstrate the relationships between various parts of the building.

Along with the overall building diagram, there are various program area diagrams throughout this chapter which demonstrate how specific spaces may relate to each other within a particular program area.

NO SMOKING SIGNS

As required by the Ohio Revised Code, post “No Smoking” signs at every entrance door into the building. If a door is for exit only, there is no need for a sign. Post the signs on entrance glass or other appropriate surface. Signs shall contain a telephone number for reporting violations. (866/559-6446)

DIAGRAM

Diagrams of the space have been developed to show how some of the features and loose furnishings may be organized. The space is not required to be designed in the configuration shown.

PROGRAM ACTIVITIES

Program activities indicate the type of activities that may occur in the space. These activities will vary from school district to school district depending on the educational program.

SPATIAL RELATIONSHIPS

Relationships of a particular room to other spaces and activities have been identified to assist the Design Professional in the design of the facility.

ENVIRONMENTAL CONSIDERATIONS

Environmental considerations are items that may affect the educational program. They are the basis of some the requirements of Finishes, Features, Plumbing, HVAC, Electrical, and Technology.

FINISHES

The finishes stated for the spaces have been developed based on the function of the room. The spaces adjacent to the room or a building system may change the finishes stated. For example, it may be necessary to change a gypsum wallboard partition to a concrete masonry wall as a result of the structural system.

OPERABLE WINDOWS

Operable windows are optional in exterior window fenestration.

LIGHTING

Interior lighting shall be controlled by occupancy sensors, automatic timed lighting controlled system or a combination of both to comply with ASHRAE 90.1. Exterior lighting shall be controlled by photosensor or astronomical time clock to comply with ASHRAE 90.1.to automatically turn lighting off when sufficient daylight is available.

AREA

Square foot area given for the room is the necessary area. This area is given in net square feet – defined as the area within the walls of the room.

LOOSE FURNISHINGS

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

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

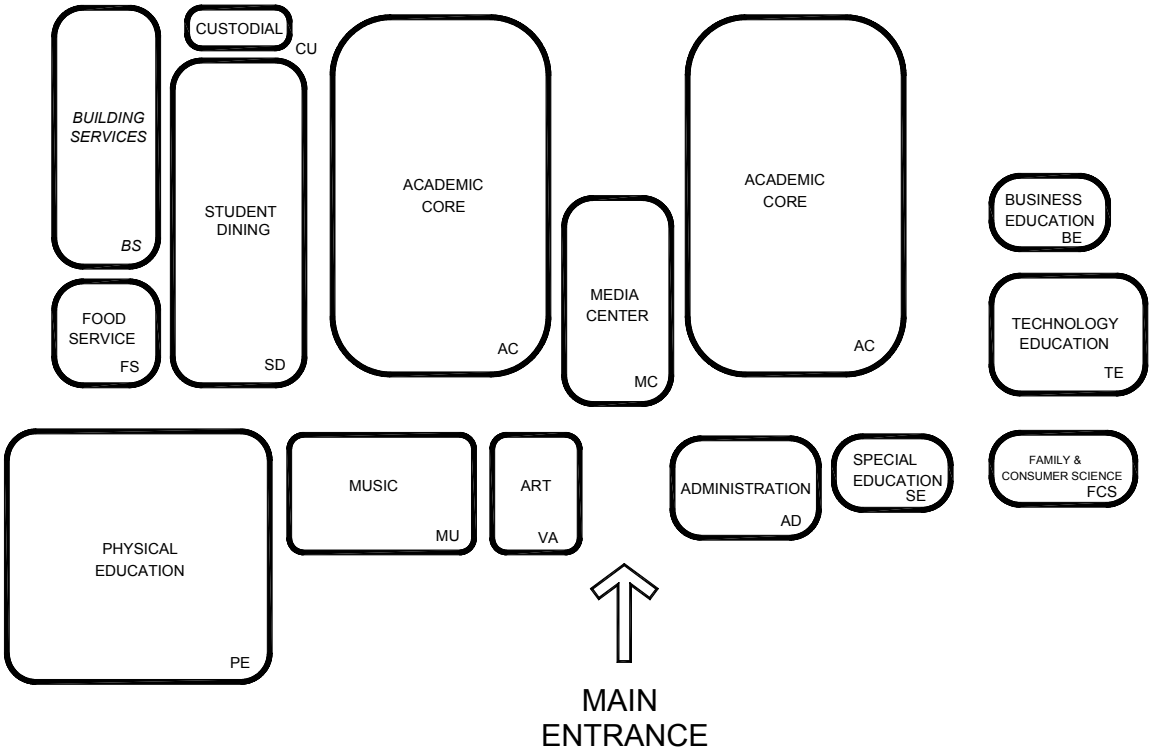
FEATURES

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

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

TECHNOLOGY

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



NOTES:

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

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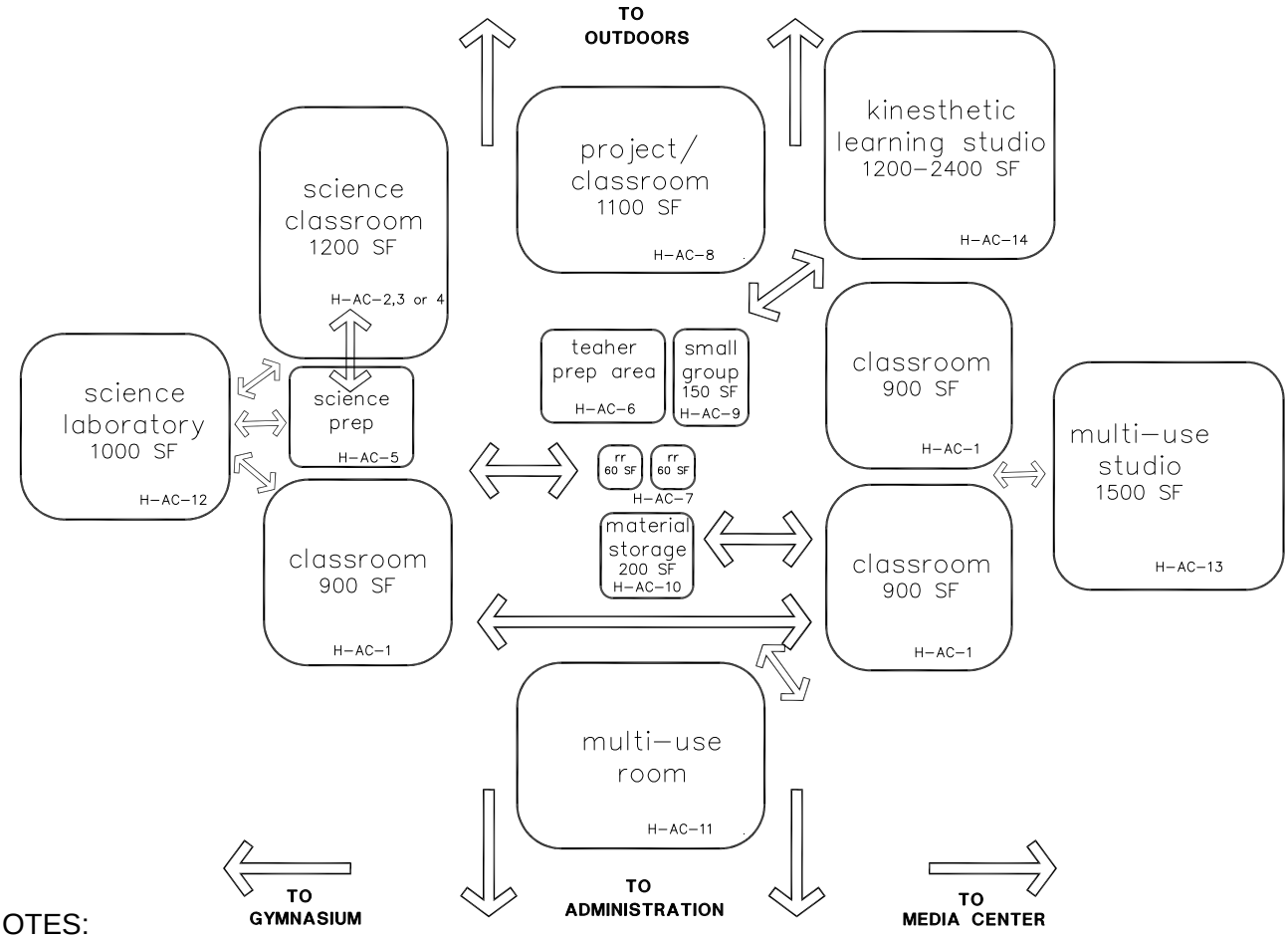

NOTES:

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

H-AC-1	High School Classroom
H-AC-2	Science Classroom - General/Physics
H-AC-3	Science Classroom - Chemistry
H-AC-4	Science Classroom - Biology
H-AC-5	Science Prep
H-AC-6	Teacher Prep Area/Workroom
H-AC-7	Individual Restroom
H-AC-8	Project/Classroom
H-AC-9	Small Group Room
H-AC-10	Instructional Material Storage
H-AC-11	Multi-use Room
H-AC-12	***Science Laboratory***
H-AC-13	***Multi-Use Studio***
H-AC-14	***Kinesthetic Learning Studio***

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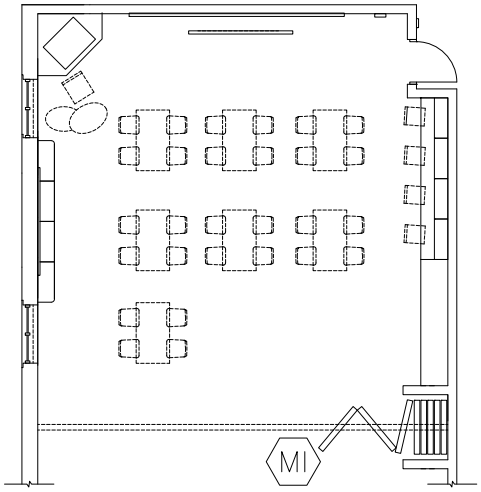
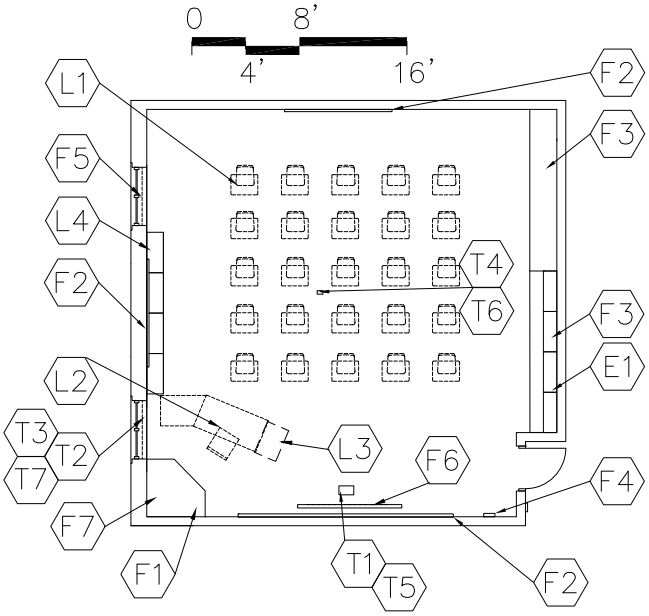


CLASSROOM WITH OPTIONAL FOLDING WALL



TYPICAL CLASSROOM

CAPACITY: 25 students
SIZE: 900 SF

PROGRAM ACTIVITIES:

- Large group, small group, and individual instruction
- Group and individual work
- Demonstrations
- Accommodates any of the core academic disciplines

SPATIAL RELATIONSHIPS:

- Near other academic core classrooms
- Proximity to large group restrooms
- Near teacher prep area/workroom
- Classrooms should be located in academic "zone" that is away from noisy or public activities
- Classrooms with access to media center and administrative services
- Flexibility of space

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 placed in this classroom or could be placed in a teacher prep area/workroom.

HIGH SCHOOL CLASSROOM

H-AC-1

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

LOOSE FURNISHINGS:

L1 Student desks and chairs
L2 Teacher desk or workstation/computer support and chair
L3 File cabinet
L4 9' of low bookcases (fixed or mobile)
Wastebasket

Miscellaneous:

Pencil sharpener ***(optional)***

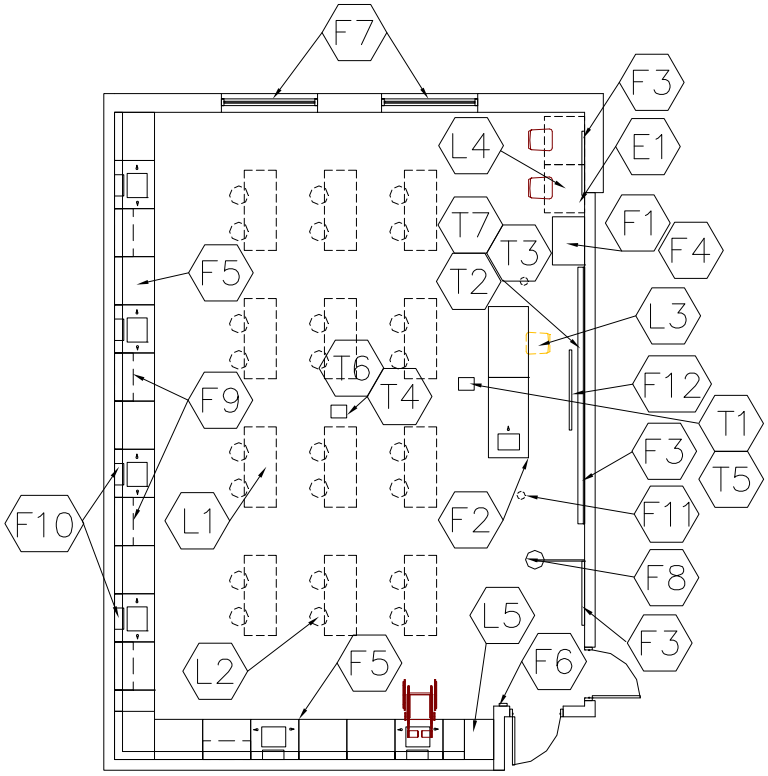
M1 Operable partitions between classrooms are optional 02226

E1 Duplex receptacle with dedicated circuit for wireless devices

FEATURES[1]:		Spec. Ref.#
Fixed Items:		
F1	Tall wardrobe with file drawers	123550
F2	20'-32' combination marker board, tack board and tackable wall surface	101100
F3	18'-24' combination base and wall cabinets	123550
F4	Pencil sharpener support (optional)	062000
F5	Windows with integral blinds	085113
F6	Projection screen (optional)	115213
F7	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
	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 4***	***272133***
T7	***Classroom technology center video port***	***271543, 274116, 274119, 275127***
Electronic Safety and Security:		
	Life safety devices per code	283111

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 the loose furnishings.
4. ***Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.***



CAPACITY: 24 - 28 students
SIZE: 1,200 SF
ANCILLARY SPACES: Science Prep
H-AC-5

PROGRAM ACTIVITIES:

- Large group, small group, and individual instruction
- Group and individual work
- Laboratory experimentation
- Data collection and analysis
- Demonstrations
- Project work

SPATIAL RELATIONSHIPS:

- Near other science classrooms
- Adjacent to science prep room
- Classrooms located in academic "zone" that is away from noisy or public activities
- Classrooms with access to media center and administrative services
- Proximity to large group restrooms
- Flexibility of space

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
- Higher than normal ventilation requirements
- Moisture- and stain-resistant finishes
- Chemical-resistant counter tops

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.
2. Science casework layout to be determined by the school district.
3. Depending upon the educational program of the district, a tall wardrobe may be placed in this classroom or could be placed in a teacher prep area/workroom.
4. The layouts shown do not restrict or reflect the variety of arrangements available to the Design Professional.

SCIENCE CLASSROOM - GENERAL/PHYSICS
H-AC-2

FINISHES[1]:	Spec. Ref.#
Flooring:	
Linoleum,	096500
rubber, ET, sheet vinyl,	096516
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 Student work tables
L2 Student stools/chairs
L3 Teacher chair or stool
L4 Computer workstation furniture
L5 File cabinet
Wastebasket

L4 could be fixed casework.

Electronic Safety and Security:	
Life safety devices per code	283111

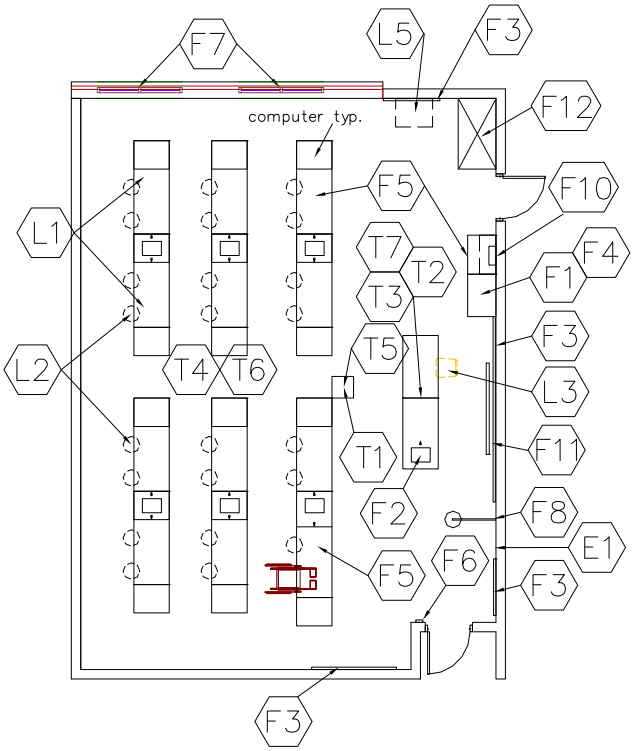
Miscellaneous:
Pencil sharpener (optional)

E1 Duplex receptacle with dedicated circuit for wireless devices

FEATURES[1]:		Spec. Ref.#
Fixed Items:		
F1	Tall wardrobe with file drawers	123553
F2	Demonstration table/teacher desk	123553
F3	20'-32' combination marker board, tack board and tackable wall surface	101100
F4	Technology support casework	123553
F5	40'-60' of lab casework with sinks	123553
F6	Pencil sharpener support (optional)	062000
F7	Windows with integral blinds	085113
F8	Emergency shower/eyewash	224000
F9	18'-24' of wall cabinets	123553
F10	Towel dispensers (optional)	102813
F11	2 eye hooks for demonstrations(optional)	055000
F12	Projection screen (optional)	115213
Fire Suppression:		
	Fire suppression system	211000
Plumbing:		
	Plumbing connections	224000/221116/221119
	Emergency shower/eyewash connections	224000
	Gas connections (optional)	226313
	Master shutoff for gas	226313
	Compressed air connections(optional)	221500
HVAC:		
	Supply/return air system	Div. 23
	Independent temperature control	230923
	Manual exhaust	Div. 23
Electrical:		
	Fluorescent lighting: Illumination level: See Table 8600-5	265100
	Multilevel switching	262726
	Duplex receptacles at perimeter workstations and teaching wall	262726
	Double duplex receptacle adjacent to each data and video port	262726
	Emergency lighting	265100
	Means of egress lighting per code	265100
Communications:		
T1	1 ***projector*** video port	271543
T2	1 voice port and phone	271513/273123
T3	1 data port at demonstration table	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 4***	***272133***
T7	***Classroom technology center videoport***	***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. Master gas shutoff valve shall be clearly labeled, easily accessible, and immediately operable by staff.
4. ***Baseline includes WAP cable per classroom. WAP device quantity/placement per 272133 requirements.***



PROGRAM ACTIVITIES:

- Large group, small group, and individual instruction
- Group and individual work
- Laboratory experimentation
- Data collection and analysis
- Demonstrations
- Project work

SPATIAL RELATIONSHIPS:

- Near other science classrooms
- Adjacent to science prep room
- Classrooms located in academic "zone" that is away from noisy or public activities
- Classrooms with access to media center and administrative services
- Proximity to large group restrooms
- Flexibility of space

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
- Higher than normal ventilation requirements
- Moisture- and stain-resistant finishes
- Chemical-resistant counter tops

CAPACITY:	24 - 28 students
SIZE:	1,200 SF
ANCILLARY SPACES:	Science Prep H-AC-5

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.
2. Science casework layout to be determined by the school district.
3. Depending upon the educational program of the district, a tall wardrobe may be placed in this classroom or could be placed in a teacher prep area/workroom.
4. The layouts shown do not restrict or reflect the variety of arrangements available to the Design Professional.

SCIENCE CLASSROOM - CHEMISTRY
H-AC-3

FINISHES[1]:	Spec. Ref.#
Flooring:	
Vinyl sheet flooring, linoleum,	096500
rubber, ET,	096516
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 Student work tables
L2 Student stools/chairs
L3 Teacher chair or stool
L4 Computer workstation furniture
L5 File cabinet
Wastebasket

L4 Could be fixed casework

Electronic Safety and Security:	
Life safety devices per code	283111

Miscellaneous:
Pencil sharpener (optional)

E1 Duplex receptacle with dedicated circuit for wireless devices

Communications (cont'd):

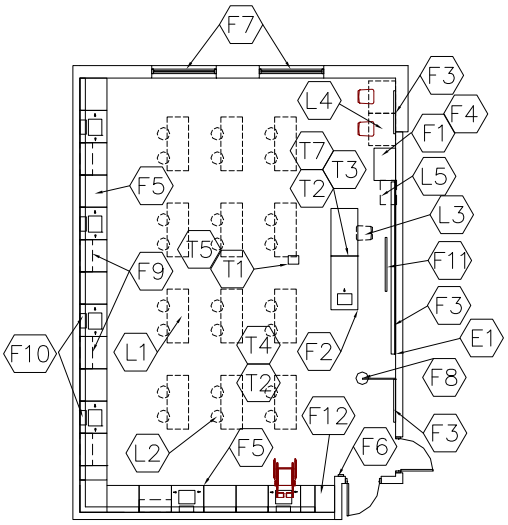
T6 Wireless access point (WAP) as determined by Design – refer to Note 4 272133

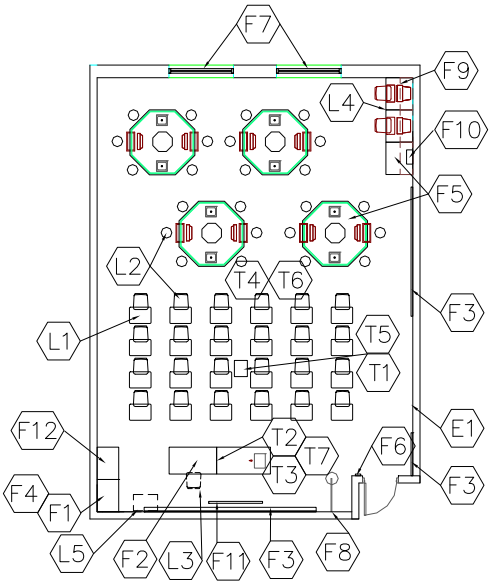
T7 Classroom technology center video port 271543, 274116, 274119, 275127

FEATURES[1]:		Spec. Ref.#
Fixed Items:		
F1	Tall wardrobe with file drawers	123553
F2	Demonstration table/teacher desk	123553
F3	20'-32' combination marker board, tack board and tackable wall	101100 surface
F4	Technology support casework	123550
F5	40'-60' lab casework with sinks	123553
F6	Pencil sharpener support (optional)	062000
F7	Windows with integral blinds	085113
F8	Emergency shower/eyewash	224000
F9	18'-24' of wall cabinets (optional)	123553
F10	Towel dispensers (optional)	102813
F11	Projection screen (optional)	115213
F12	Fume hood	115313
F13	Tall cabinet for microscopes(optional)	123550
Fire Suppression:		
	Fire suppression system	211000
Plumbing:		
	Plumbing connections	224000/221116/221119
	Emergency shower/eyewash connections	224000
	Master shut-off for gas	226313
	Gas connections	226313
	Compressed air connections (optional)	221500
	Acid waste piping	221316
	Neutralization tank	221323
HVAC:		
	Supply/return air system	Div. 23
	Independent temp control	230923
	Manual exhaust	Div. 23
	Exhaust for fume hood	Div. 23
Electrical:		
	Fluorescent lighting:	265100
	Illumination level: See Table 8600-5	
	Multilevel switching	262726
	Duplex receptacles at perimeter workstations and teaching wall	262726
	Double duplex receptacle adjacent to each data and video port	262726
	Emergency lighting	265100
	Means of egress lighting per code	265100
Communications:		
T1	1 ***projector*** video port	271543
T2	1 voice port and phone	271513/273123
T3	1 data port at demonstration table	271513
T4	***Wireless access point above ceiling***	271513
	Central sound system	275123
	Clock	275313
	Sound reinforcement system	275127
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. Master gas shutoff valve shall be clearly labeled, easily accessible, and immediately operable by staff.
4. ***Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.***

SCIENCE CLASSROOM - BIOLOGY
H-AC-4





CAPACITY: 24 - 28 students
SIZE: 1,200 SF
ANCILLARY SPACES: Science Prep H-AC-5

PROGRAM ACTIVITIES:

- Large group, small group, and individual instruction
- Group and individual work
- Laboratory experimentation
- Data collection and analysis
- Demonstrations
- Project work

SPATIAL RELATIONSHIPS:

- Near other science classrooms
- Adjacent to science prep room
- Classrooms located in academic "zone" that is away from noisy or public activities
- Classrooms with access to media center and administrative services
- Proximity to large group restrooms
- Flexibility of space
- Appropriate exterior exposure for "grow" window

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
- Higher than normal ventilation requirements
- Moisture- and stain-resistant finishes
- Chemical-resistant counter tops

NOTES:

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

SCIENCE CLASSROOM - BIOLOGY
H-AC-4

FINISHES[1]:	Spec. Ref.#
Flooring:	
Linoleum,	096500
rubber, ET, sheet vinyl,	096516
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 Student work tables
L2 Student stools/chairs
L3 Teacher chair or stool
L4 Computer workstation furniture
L5 File cabinet
Wastebasket

L4 could be fixed casework.

Electronic Safety and Security:

Life safety devices per code 283111

Miscellaneous:

Pencil sharpener (optional)

E1 Duplex receptacle with dedicated circuit for wireless devices

Communications (cont'd):

T6 Wireless access point (WAP) as determined by Design – refer to Note 4 272133

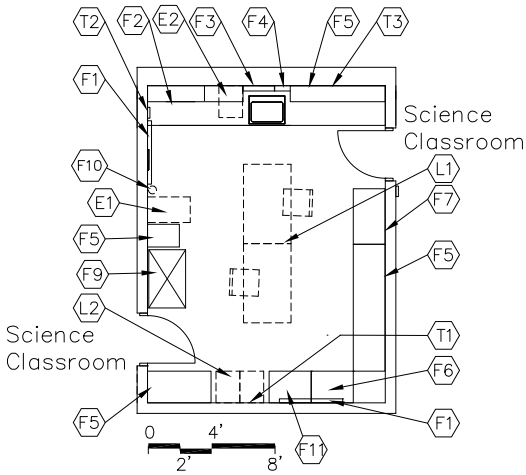
T7 Classroom technology center video port 271543, 274116, 274119, 275127

FEATURES[1]:		Spec. Ref.#
Fixed Items:		
F1	Tall wardrobe with file drawers	123553
F2	Demonstration table/teacher desk	123553
F3	20'-32' combination marker board tack board and tackable wall surface	101100
F4	Technology support casework	123550
F5	40'-60' of lab casework with sinks	123553
F6	Pencil sharpener support (optional)	062000
F7	Windows with integral blinds	085113
F8	Emergency shower/eyewash	224000
F9	18'-24' of wall cabinets (total)	123553
F10	Towel dispensers (optional)	102813
F11	Projection screen (optional)	115213
F12	Tall cabinets (optional)	123550
Fire Suppression:		
	Fire suppression system	211000
Plumbing:		
	Plumbing connections	224000/221116/221119
	Emergency shower/eyewash connections	224000
	Master shut-off for gas	226313
	Gas connections	226313
	Compressed air connections (optional)	221500
	Acid waste piping	221316
	Neutralization tank (optional)	221323
HVAC:		
	Supply/return air system	Div. 23
	Independent temperature ctrl	230923
	Manual exhaust	Div. 23
Electrical:		
	Fluorescent lighting: Illumination level: See Table 8600-5	265100
	Multilevel switching	262726
	Duplex receptacles at perimeter workstations and teaching wall	262726
	Double duplex receptacle adjacent to each data and video port	262726
	Emergency lighting	265100
	Means of egress lighting per code	265100
Communications:		
T1	1 ***projector*** video port	271543
T2	1 voice port and phone	271513/273123
T3	1 data port at demonstration table	271513
T4	***Wireless access point cable above ceiling***	271513
	Central sound system	275123
	Clock	275313
	Sound reinforcement system	275127
T5	***Ultra-short throw interactive*** projector	274119

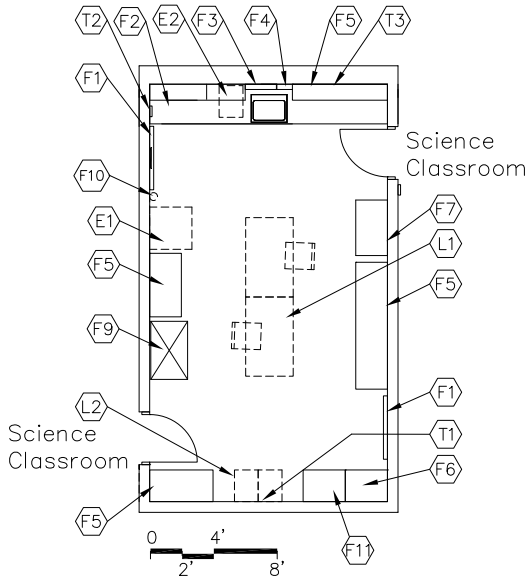
NOTES:

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. Master gas shutoff valve shall be clearly labeled, easily accessible, and immediately operable by staff.
4. ***Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.***

300 SF



400 SF



CAPACITY: 1-3 Staff
SIZE: 300-400 SF
ANCILLARY SPACES: Science Classrooms H-AC-2, H-AC-3, H-AC-4

PROGRAM ACTIVITIES:
- Teacher preparation
- Materials storage
- Laboratory experimentation
- Data collection and analysis
- Small group work

SPATIAL RELATIONSHIPS:
- Adjacent to science classrooms
- Shared by more than one science classroom
- Grouped with and have access to other classrooms

ENVIRONMENTAL CONSIDERATIONS:
- Environmental sound control -
  wall minimum STC 45
  ceiling minimum CAC 35, NRC 0.70
- Ventilation requirements
- Moisture- and stain-resistant finishes
- Chemical-resistant counter tops

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.
2. Science casework layout to be determined by the school district.
3. Depending upon the educational program of the district, a tall wardrobe may be placed in this science prep room or could be placed in a teacher prep area/workroom.
4. A separate chemical storage room may be created from the science prep room square footage.

SCIENCE PREP

H-AC-5

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:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:

L1 Work tables with chemical-resistant top
L2 2 file cabinets
Wastebasket

EQUIPMENT

E1 Refrigerator/freezer (optional)
E2 Dishwasher (optional)

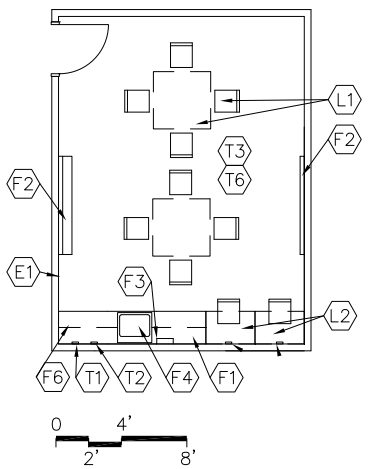
Note: Eliminate 24 hour exhaust if recommended by cabinet manufacturer. Make room 24 hour exhaust if no cabinet exhaust.

FEATURES[1]:		Spec. Ref.#
Fixed Items:		
F1	4' of tack board	101100
F2	8'-15' of lab station with sink	123553
F3	Drying rack with pegs (optional)	123553
F4	Towel dispenser (optional)	102813
F5	16'-31' combination wall cabinets and tall cabinets	123553
F6	Storage cabinets for acids, Ventilated (optional)	123553
F7	Storage cabinets for flammables(optional)	123553
F8	Reserved	
F9	Fume hood (optional)	123553
F10	Emergency eyewash (if applicable)	224000
F11	Chemical storage cabinets with acid resistant lining	123553
Fire Suppression:		
	Fire suppression system	211000
Plumbing:		
	Plumbing connections	224000/221116/221119
	Acid waste system	Div. 23
	Gas connections	226313
	Compressed air connections(optional)	221500
	Access to neutralization tank	221323
HVAC:		
	Supply/return air system	Div. 23
	Independent temperature control	230923
	Manual exhaust	Div. 23
	24 hour exhaust for acid storage cabinet	Div. 23
Electrical:		
	Single level switching	262726
	Fluorescent lighting:	265100
	Illumination level: See Table 8600-5	
	1 duplex receptacle under work tables	262726
	3 duplex receptacles	262726
	Receptacle for refrigerator/freezer	262726
	Double duplex receptacle at 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
Electronic Safety and Security;		
	Life safety devices per code	283111
Miscellaneous:		
	Fume hood through wall if adjacent to chemistry	

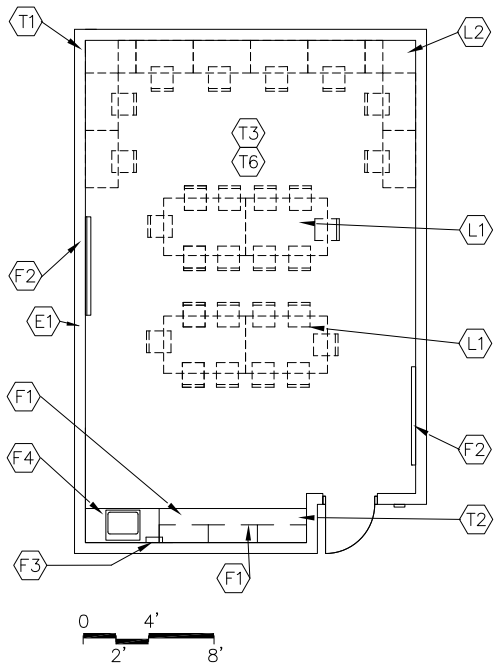
NOTES:

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

300 SF



600 SF



CAPACITY: 8 - 28 teachers
SIZE: 300 - 600 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.

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

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

H-AC-6

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

LOOSE FURNISHINGS:

L1 Tables and chairs

L2 Computer workstation furniture

Wastebasket

L2 could be fixed casework.

Electronic Safety and Security:	
Life safety devices per code	283111

Miscellaneous:

Copier by school district

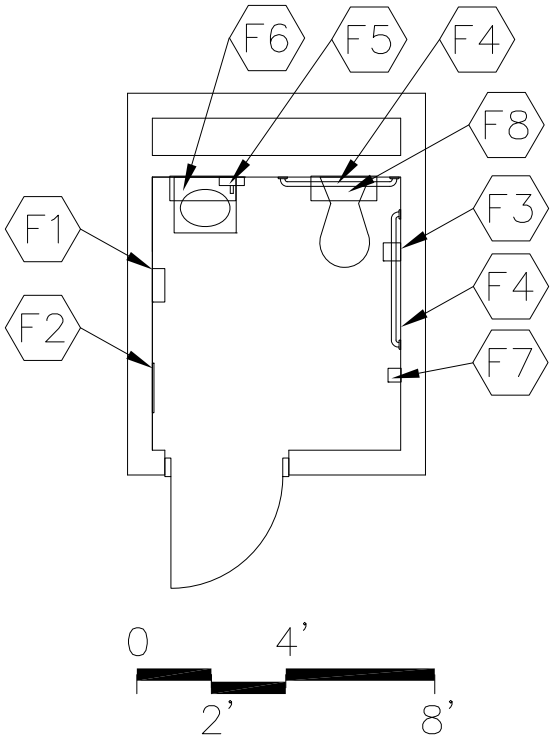
E1 Duplex receptacle with dedicated circuit for wireless devices

FEATURES[1]:		Spec. Ref.#
Fixed Items[2]:		
F1	12'-18' combination base & wall cabinets (some could be bookcases)	123550
F2	10'-16' combination marker board, tack board & tackable wall surface	101100
F3	Towel dispenser (optional)	102813
F4	3' sink base cabinet	123550
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	1 ***projector*** video port	271543
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***

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.***

INDIVIDUAL RESTROOM
H-AC-7



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
H-AC-7

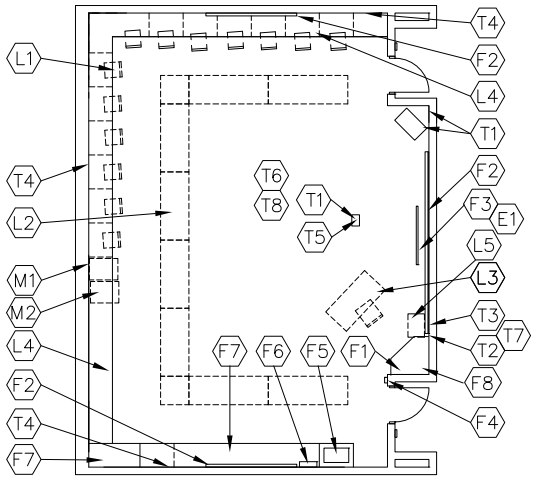
FINISHES[1]:	Spec. Ref.#
Flooring:	
Linoleum, rubber, ET, or	096516
sheet vinyl	096500
Optional: Ceramic mosaic tile,	093000
porcelain tile, or	096723
resinous flooring	
Base:	
Resilient base	096500
Optional: Ceramic mosaic tile,	093000
Porcelain tile, resinous flooring,	096723
or integral vinyl cove base	
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:
- Wastebasket

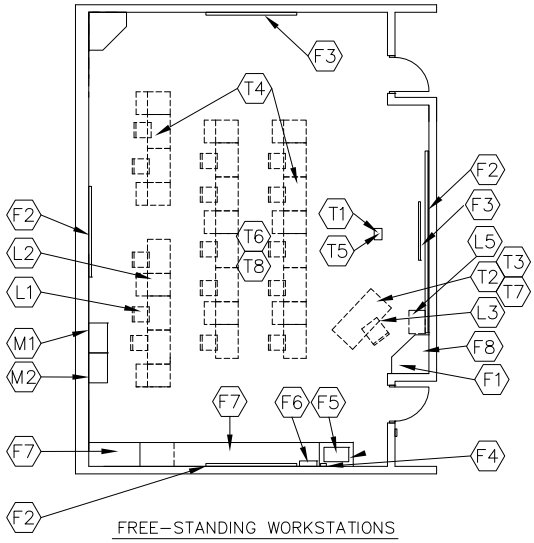
FEATURES[1]:		Spec. Ref.#
Fixed Items:		
F1	Towel dispenser	102813
F2	24" x 60" mirror	102813
F3	Toilet tissue holder	102813
F4	36" and 42" grab bar	102813
F5	Soap dispenser	102813
F6	Shelf above sink (optional)	102813
F7	Coat hook	102813
F8	Cabinet above toilet (optional)	102813
Fire Suppression:		
	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.



PERIMETER WORKSTATION LAYOUT



FREE–STANDING WORKSTATIONS

0 8'
4' 16'

CAPACITY: 25 students
SIZE: 1,100 SF

PROGRAM ACTIVITIES:
- Individual computer instruction
- Group instruction
- Individual project work
- Media production
- Small group meetings

SPATIAL RELATIONSHIPS:
- Near academic core classrooms
- Near large group restrooms
- Near teacher prep area/workroom

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

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 placed in this classroom or could be placed in a teacher prep area/workroom.

PROJECT/CLASSROOM

H-AC-8

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

LOOSE FURNISHINGS:

L1 Student chairs
L2 Work tables
L3 Teacher desk or workstation/computer support and chair
L4 Computer workstation furniture
L5 File cabinet
Wastebasket

L4 could be fixed casework.

	Spec. Ref.#
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:

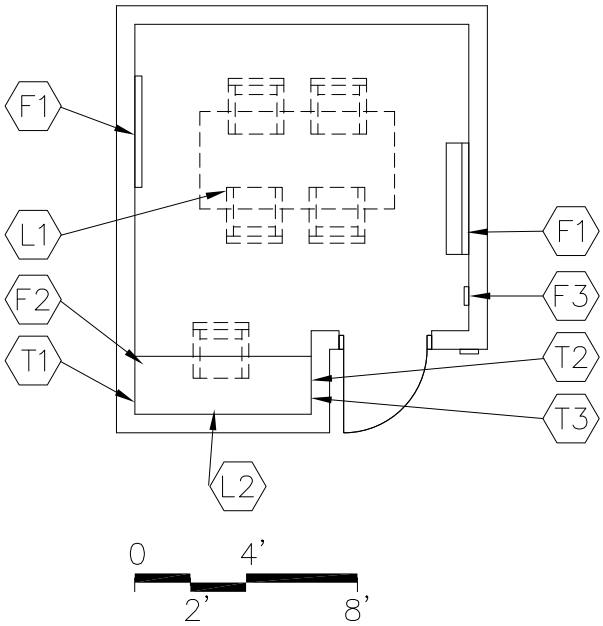
M1 Classroom area network file server
M2 Printer

E1 Duplex receptacle with dedicated circuit for wireless devices

FEATURES[1]:		Spec. Ref.#
Fixed Items:		
F1	Tall wardrobe with file drawers	123550
F2	16'-32' combination marker board tack board & tackable wall surface	101100
F3	Projection screen (optional)	115213
F4	Pencil sharpener support (optional)	062000
F5	3' sink base cabinet (optional)	123550
F6	Towel dispenser (optional)	102813
F7	9'-20' combination base and tall cabinets	123550
F8	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: Parabolic 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 (13 ports minimum)	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.***



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
H-AC-9

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

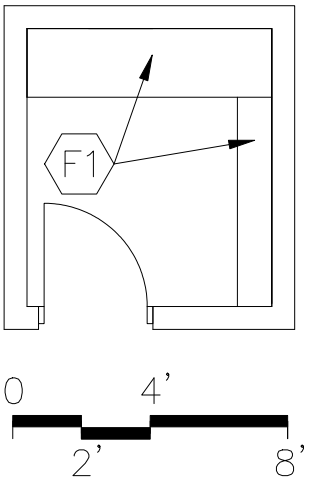
LOOSE FURNISHINGS:
L1 Work tables and chairs
L2 Computer workstation furniture
Wastebasket

FEATURES[1]:		Spec. Ref.#
Fixed Items:		
F1	8'-12' combination marker board, tack board & tackable wall surface	101100
F2	4'-6' of work surface (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: Illumination level: See Table 8600-5	265100
	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	271513/273123
T3	1 data port	271513
	Clock	275313
	Central sound system	275123
Electronic Safety and Security:		
	Life safety devices per code	283111
Miscellaneous:		
	Interior window(optional)	081113/088000
	Pencil sharpener (optional)	

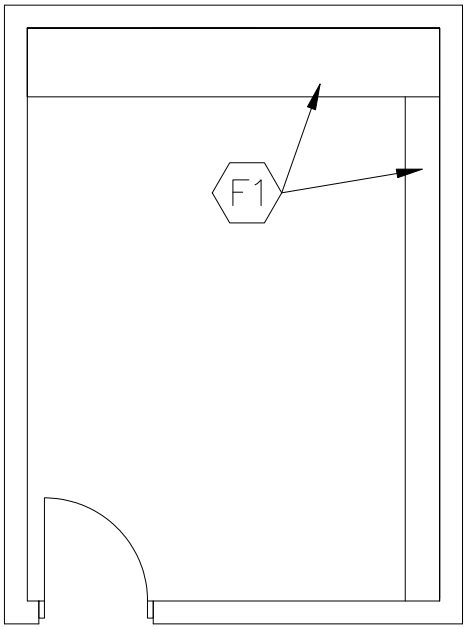
NOTES:

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

50 SF



250 SF



CAPACITY: N/A
SIZE: 50 - 250 SF

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

SPATIAL RELATIONSHIPS:
- Near teacher prep area/workroom

ENVIRONMENTAL CONSIDERATIONS:
N/A

NOTES:

INSTRUCTIONAL MATERIAL STORAGE

H-AC-10

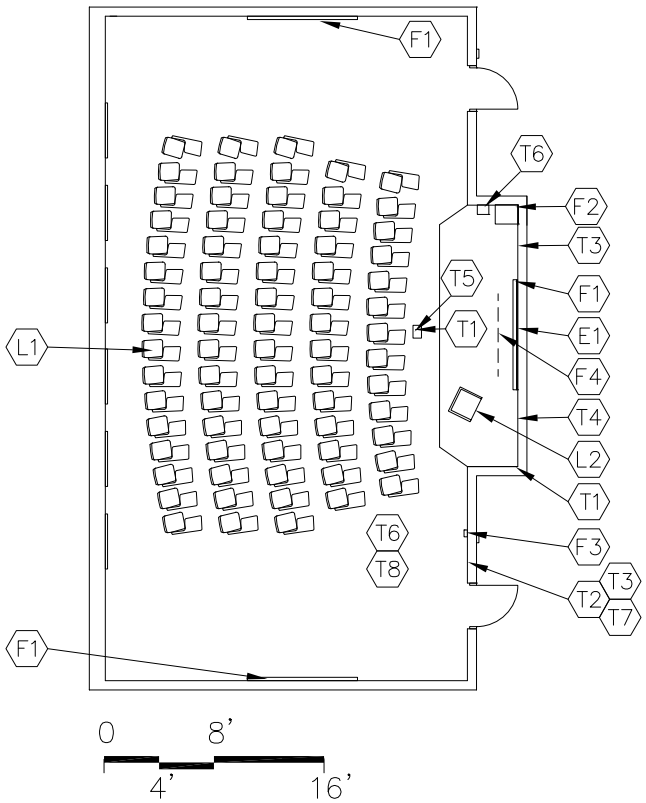
FINISHES[1]:	Spec. Ref.#
Flooring:	
Rubber, ***linoleum, ET, or***	096500
sheet vinyl	***096516***
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry	042000/099100

LOOSE FURNISHINGS:
N/A

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 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.



CAPACITY: 100 students
SIZE: 1,500 SF

PROGRAM ACTIVITIES:
- Group instruction
- Presentations
- Testing
- Community use

SPATIAL RELATIONSHIPS:
- Near academic core classrooms
- Near large group restrooms
- Close to stage to serve as "green" room
- Flexibility of space

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.

MULTI-USE ROOM
H-AC-11

FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet, carpet tile, linoleum, rubber, ET, sheet vinyl	096816 096813 096516 096500
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100
Acoustical wall treatment	098000

LOOSE FURNISHINGS:
L1 Student desks and chairs
L2 Podium / console (optional)
Portable risers
Wastebasket

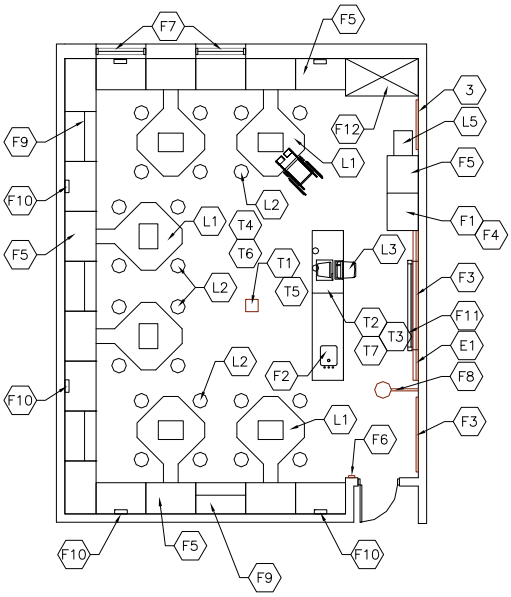
Electronic Safety and Security:	
Life safety devices per code	283111

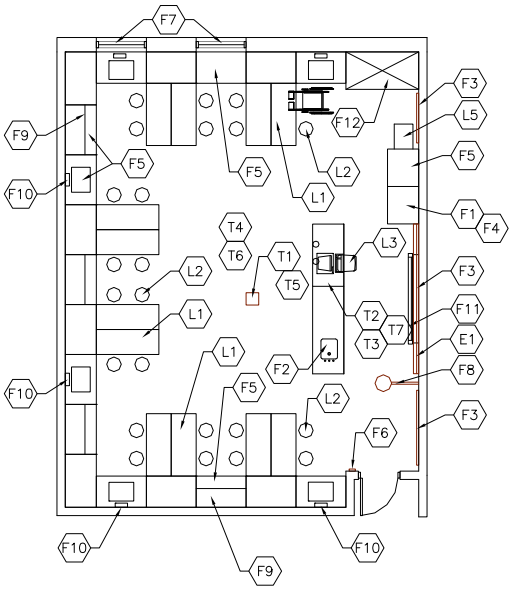
Miscellaneous:
Pencil sharpener (optional)

E1 Duplex receptacle with dedicated circuit for wireless devices

FEATURES[1]:		Spec. Ref.#
Fixed Items:		
F1	16'-28' combination marker board tack board & tackable wall surface	101100
F2	Technology support casework	123550
F3	Pencil sharpener support (optional)	062000
F4	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
	6 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
	Telecommunications Grounding	270526/260526
Communications:		
T1	2 ***projector*** video ports	271543
T2	1 voice port and phone	271513/273123
T3	1 data port (minimum)	271513
T4	1 port to input local computer to monitor	271513
	Clock	275313
	Central sound system	275123
T5	***Ultra-short throw interactive*** projector	274119
T6	Student Dining/Cafeteria sound reinforcement system	275122
T7	***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.***





CAPACITY:	24 students
SIZE:	1,000 SF
ANCILLARY SPACES:	Science Classrooms

PROGRAM ACTIVITIES:

- Large group, small group, and individual instruction
- Group and individual work
- Laboratory experimentation
- Data collection and analysis
- Demonstrations
- Project work

SPATIAL RELATIONSHIPS:

- Adjacent to other science classrooms
- Near science prep room

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
- Higher than normal ventilation requirements
- Moisture- and stain-resistant finishes
- Chemical-resistant counter tops

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.
2. Science casework layout to be determined by the school district.
3. Depending upon the educational program of the district, a tall wardrobe may be placed in this classroom or could be placed in a teacher prep area/workroom.
4. The layouts shown do not restrict or reflect the variety of arrangements available to the Design Professional.

SCIENCE LABORATORY

H-AC-12

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

LOOSE FURNISHINGS:

L1 Student work tables
L2 Student stools/chairs
L3 Teacher chair or stool
L4 Computer workstation furniture
L5 File cabinet
Wastebasket

L4 Could be fixed casework

Electronic Safety and Security:	
Life safety devices per code	283111

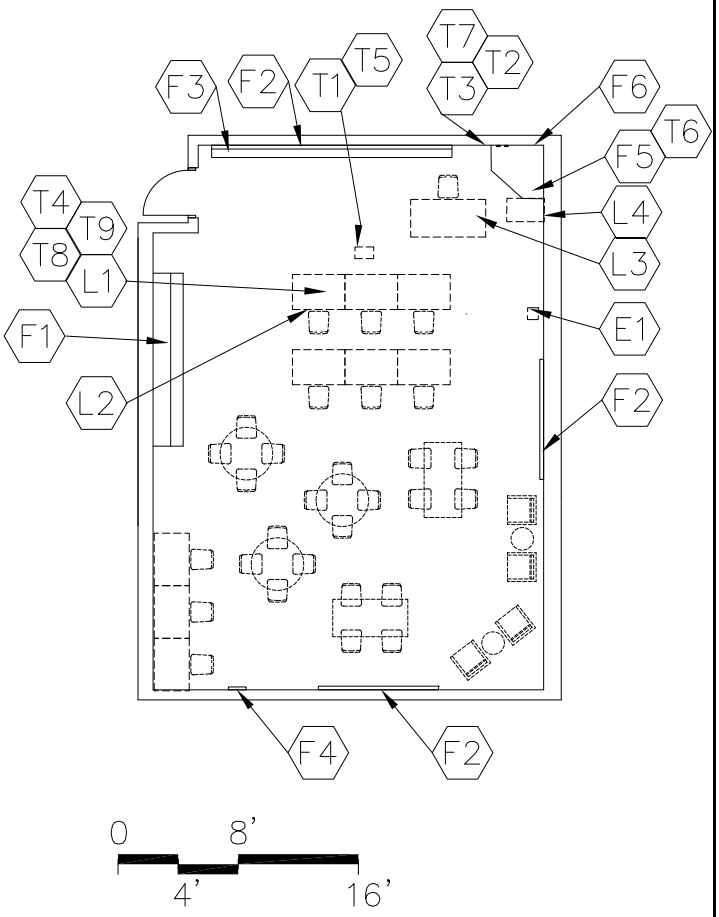
Miscellaneous:
Pencil sharpener (optional)

E1 Duplex receptacle with dedicated circuit for wireless devices

Communications (cont'd):
T6 Wireless access point (WAP) as determined by Design – refer to Note 4 272133
T7 Classroom technology center video port 271543, 274116, 274119, 275127

FEATURES[1]:		Spec. Ref.#
Fixed Items:		
F1	***T***all wardrobe with file drawers	123553
F2	Demonstration table/teacher desk	123553
F3	14'-22' combination chalk/marker board, tack board & tackable wall surface	101100
F4	Technology support casework	123550
F5	40'-60' lab casework with sinks	123553
F6	Pencil sharpener support (optional)	062000
F7	Windows with integral blinds	085113
F8	Emergency shower/eyewash	224000
F9	18'-24' of wall cabinets (optional)	123553
F10	Towel dispensers (optional)	102813
F11	Projection screen (optional)	115213
F12	Fume hood	115313
F13	Tall cabinet for microscopes(optional)	123550
Fire Suppression:		
	Fire suppression system	211000
Plumbing:		
	Plumbing connections	224000/221116/221119
	Emergency shower/eyewash connections	224000
	Master shut-off for gas	226313
	Gas connections	226313
	Compressed air connections (optional)	221500
	Acid waste piping	221316
	Neutralization tank	221323
HVAC:		
	Supply/return air system	Div. 23
	Independent temp control	230923
	Manual exhaust	Div. 23
	Exhaust for fume hood	Div. 23
Electrical:		
	Fluorescent lighting: Illumination level: See Table 8600-5	265100
	Multilevel switching	262726
	Duplex receptacles at perimeter workstations and teaching wall	262726
	Double duplex receptacle adjacent to each data and video port	262726
	Emergency lighting	265100
	Means of egress lighting per code	265100
Communications:		
T1	1 ***projector*** video port	271543
T2	1 voice port and phone	271513/273123
T3	1 data port at demonstration table	271513
T4	***Wireless access point cable above ceiling***	271513
	Central sound system	275123
	Clock	275313
	Sound reinforcement system	275127
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. Master gas shutoff valve shall be clearly labeled, easily accessible, and immediately operable by staff.
4. ***Baseline includes WAP cable per classroom. 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
H-AC-13

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

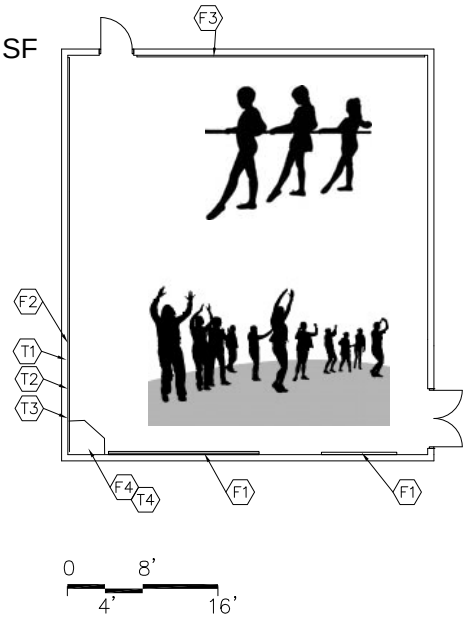
Electronic Safety and Security:	
Life safety devices per code	283111

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

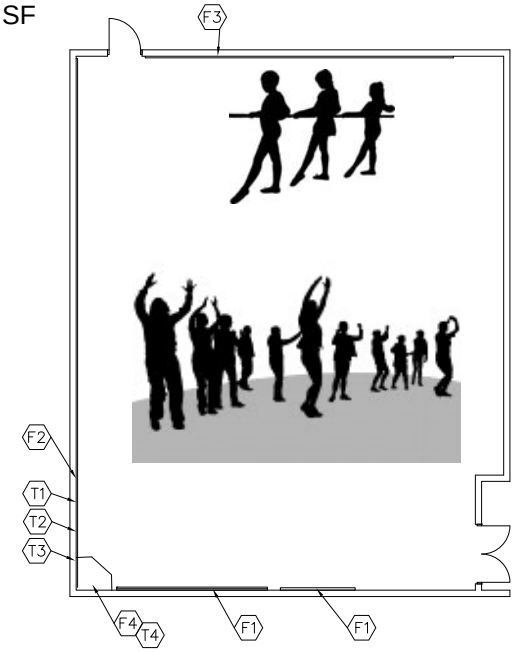
FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 4'-16' of base & wall cabinets	123550
F2 18'-28' combination marker board, tack board, or tackable wall surface	101100
F3 Projection screen (optional)	115213
F4 Pencil sharpener support (optional)	062000
F5 Tall wardrobe with file drawers	123550
F6 Technology 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 with parabolic lenses	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
- Yoga
- Pilates
- 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:

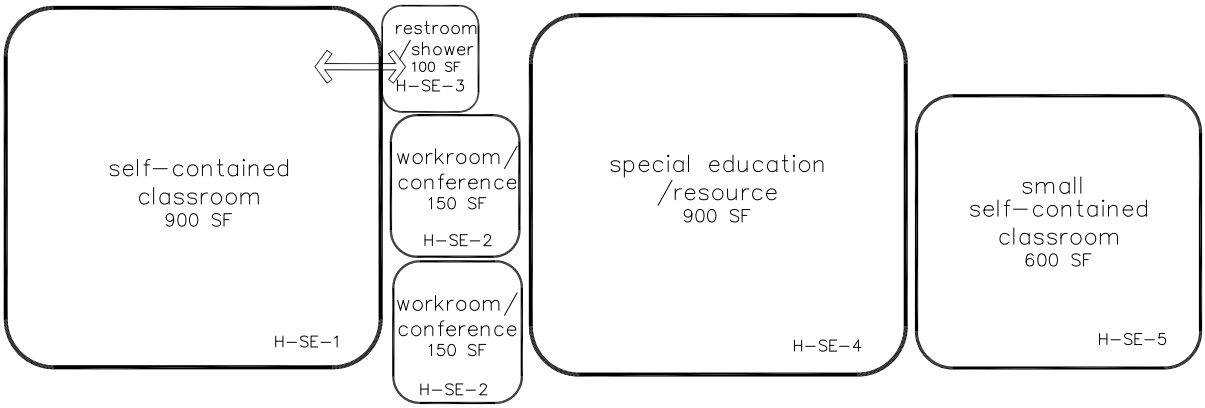
KINESTHETIC LEARNING STUDIO
H-AC-14

FINISHES[1]:	Spec. Ref.#
Flooring:	
Wood dance floor	096400
Base:	
Resilient base	096500
Ceiling:	
Painted exposed structure	099100
Walls:	
Painted concrete masonry units	042000/099100

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	
	Incandescent lighting (optional)	265100
	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 high 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:

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

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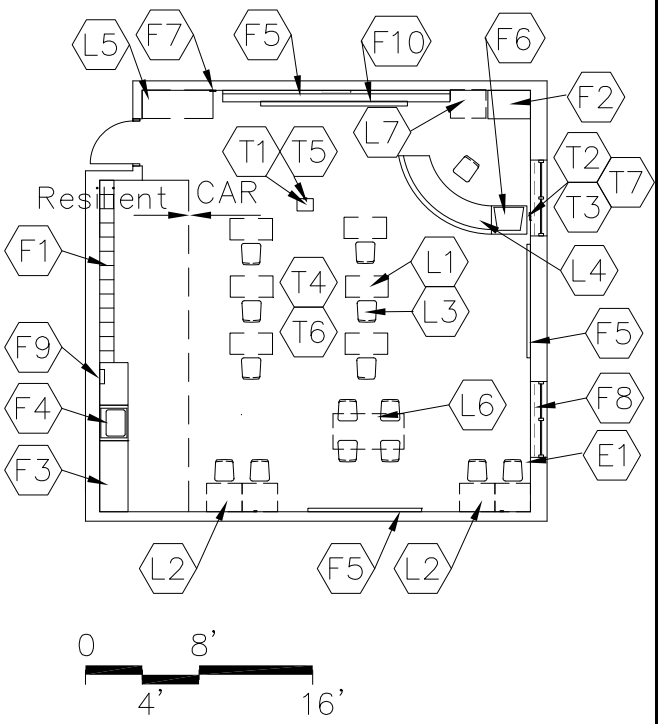


CAPACITY: Based on disability. See Chapter 1, Section 1110.

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

H-SE-1

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

LOOSE FURNISHINGS:

L1 Student desks/tables
L2 Computer workstation furniture
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

EQUIPMENT(optional)

Washer and dryer
Small refrigerator
Range
Oven
Microwave

Electronic Safety and Security:	
Life safety devices per code	283111

Miscellaneous:
Pencil sharpener (optional)

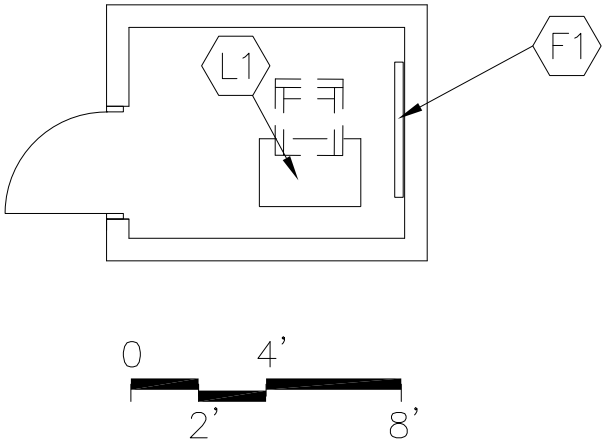
E1 Duplex receptacle with dedicated circuit for wireless devices

FEATURES[1]:		Spec. Ref.#
Fixed Items:		
F1	Open casework – student coats and personal items with wall cabinets above	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 and 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
F11	Tall storage cabinet(optional)	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
	Sound reinforcement system	275127
	Central sound system	275123
T5	***Ultra-short throw interactive*** projector	274119
T6	***Wireless access point (WAP) as determined by Design – refer to Note 3***	***272133***
T7	***Classroom technology center video port***	***271543, 274116, 274119, 275127***

NOTES:

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

WORKROOM/CONFERENCE
(Quiet Area) **H-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:
- Dimmed lighting
- 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

H-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

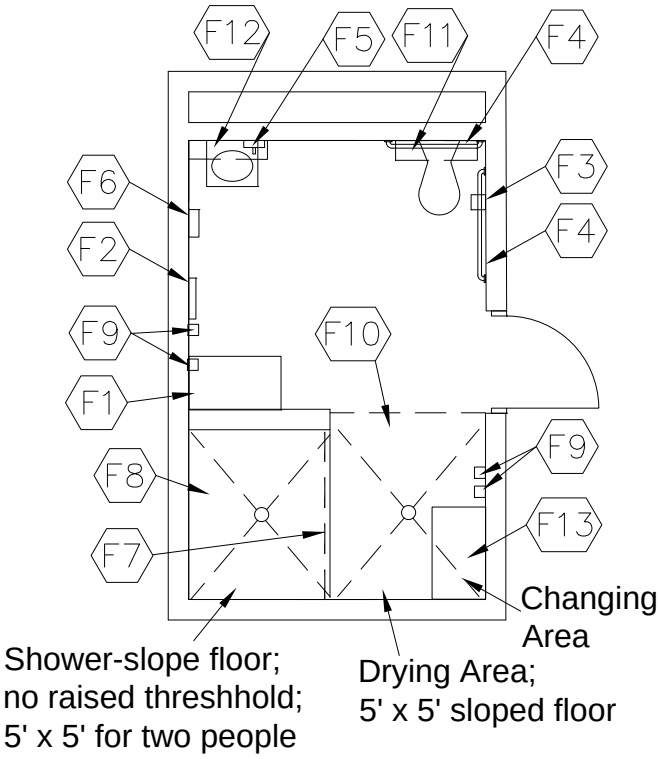
LOOSE FURNISHINGS:

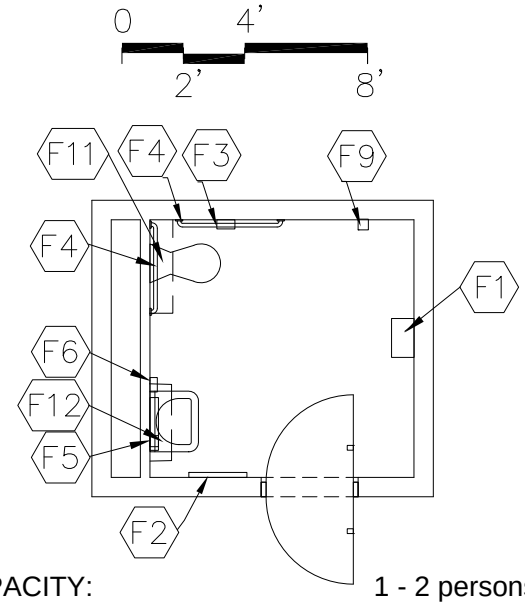
L1 Student desk and chair
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 4' of tack board (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.





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)

NOTES:

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

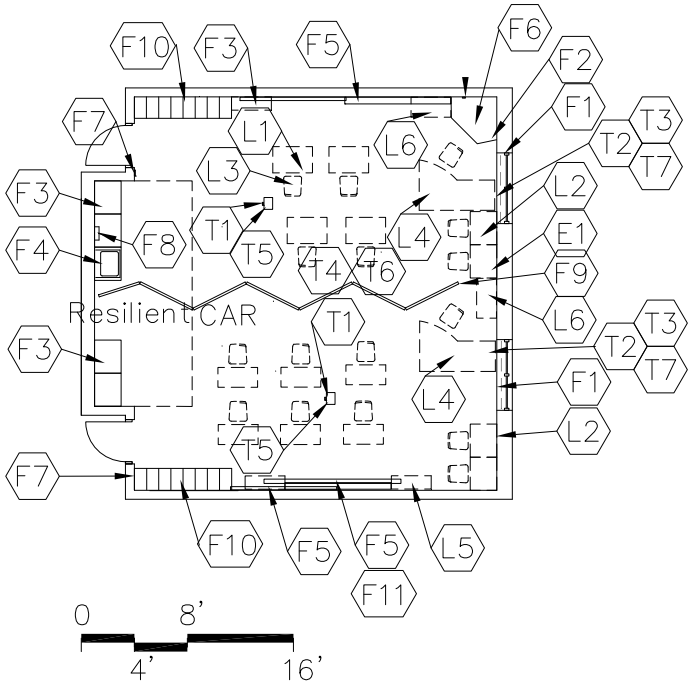
RESTROOM/SHOWER

H-SE-3

FINISHES[1]:	Spec. Ref.#
Flooring:	
Restroom: ET, vinyl sheet flooring, porcelain tile,	096500
or ceramic mosaic	093000
Shower: Ceramic mosaic tile, or porcelain tile	
Base:	
Restroom: Resilient base, or	096500
ceramic mosaic, or porcelain	093000
integral vinyl cove base	
Shower: Ceramic mosaic tile base, porcelain tile	
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 (optional)	102813
F11 8" deep wall cabinet above toilet	102813
F12 Shelf (optional)	102813
F13 Changing station or fold-down adult changing station	123550
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-***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

H-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:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:

L1 Student desks/tables
L2 Computer workstation furniture
L3 Student chairs
L4 Teacher desk **/** computer support and chair
L5 Mobile bookcases or storage unit
L6 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

Communications (cont'd):

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

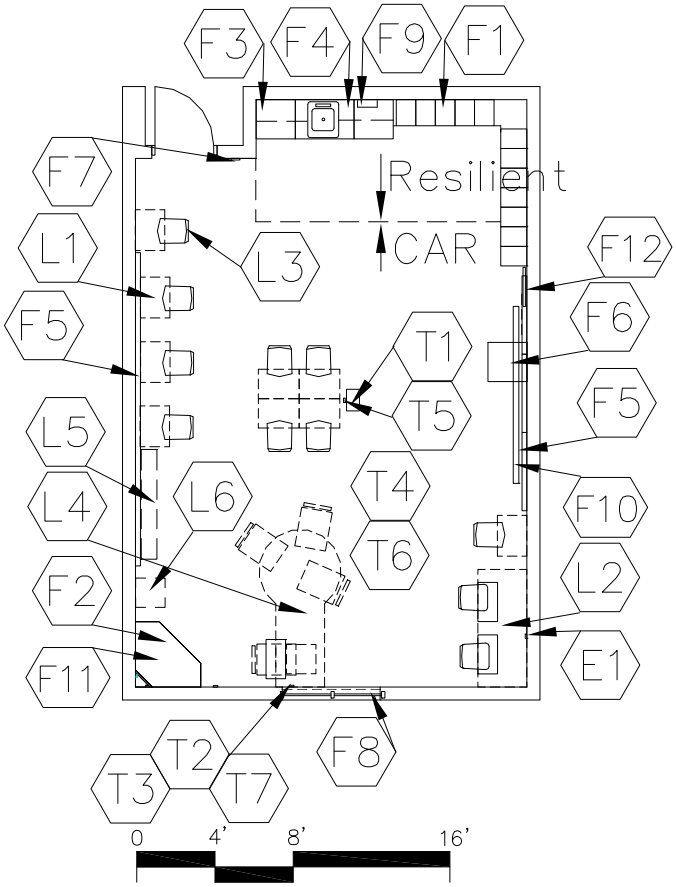
T7 Classroom technology center video port 271543, 274116, 274119, 275127

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 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
F11 Projection screen (optional)	115213
F12 Mobile storage cabinet (optional)	123550
F13 Mirror (optional)	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:	
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	271513/237123
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.***

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



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

H-SE-5 (Special Education) CHAPTER 6: HIGH SCHOOL

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

LOOSE FURNISHINGS:

L1 Student desks/tables
L2 Computer workstation furniture
L3 Student chairs
L4 Teacher workstations/computer support and chair
L5 6' of low bookcases (fixed or mobile)
L6 File cabinet
Wastebasket

Electronic Safety and Security:	
Life safety devices per code	283111

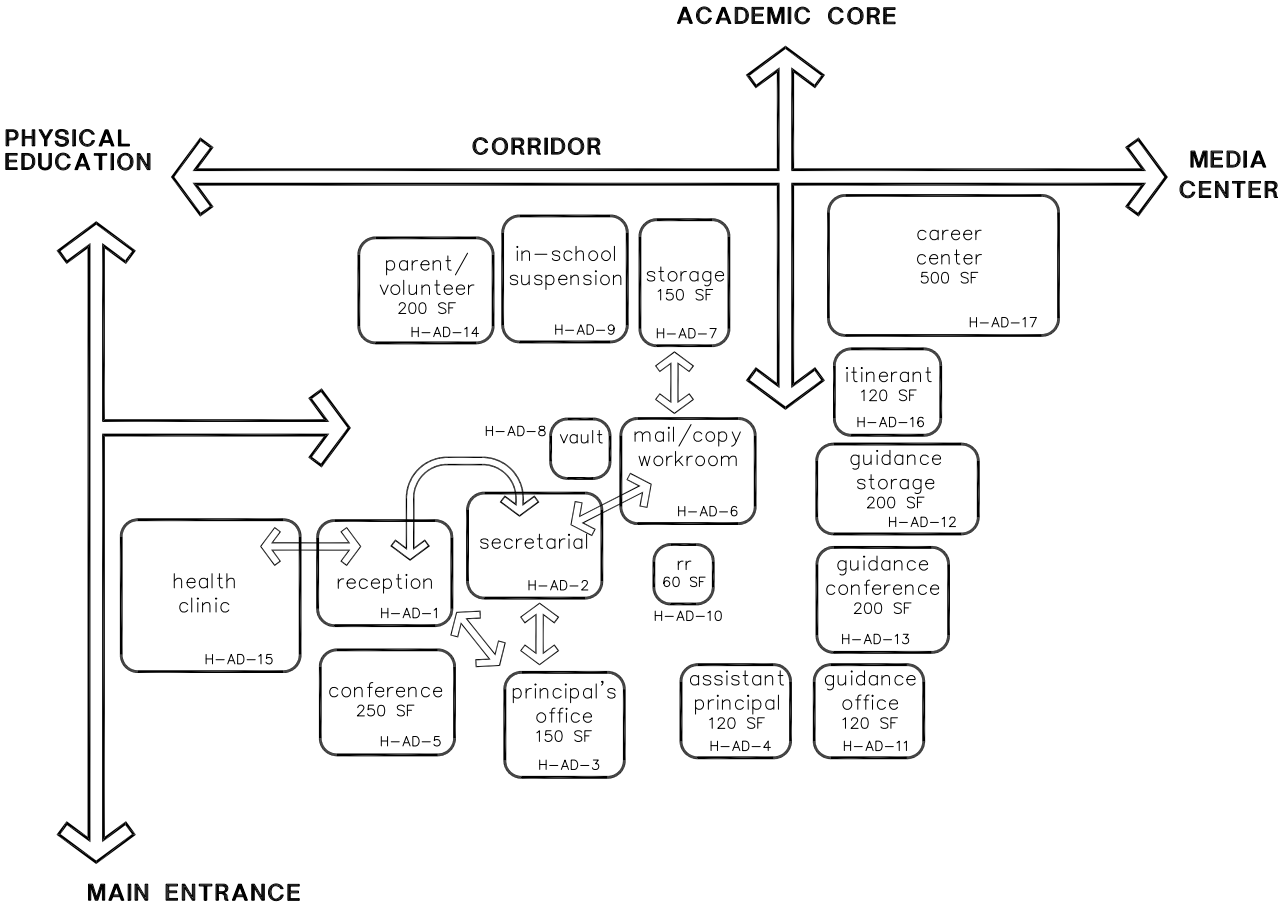
Miscellaneous:
Pencil sharpener (optional)

E1 Duplex receptacle with dedicated circuit for wireless devices

FEATURES[1]:		Spec. Ref.#
Fixed Items:		
F1	Open casework – coats and personal items with wall cabinets above	123550
F2	Tall wardrobe w/file drawers	123550
F3	About 6' of base & wall cabinets (total)	123550
F4	3' sink base cabinet	123550
F5	20'-32' 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 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
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 (optional)	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:

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

Following are the Administrative space plates for the following rooms:

H-AD-1	Reception Area	H-AD-10	Restroom
H-AD-2	Secretarial Area	H-AD-11	Guidance Counselor's office
H-AD-3	Principal's Office	H-AD-12	Guidance Records/Storage
H-AD-4	Assistant Principal's Office	H-AD-13	Guidance Conference Room
H-AD-5	Conference Room	H-AD-14	Parent/Volunteer Room
H-AD-6	Mail/Work/Copy room	H-AD-15	Health Clinic (includes restroom)
H-AD-7	Administrative Storage	H-AD-16	Itinerant Personnel Office
H-AD-8	Vault/Records Storage	H-AD-17	Career Center
H-AD-9	In-school Suspension		

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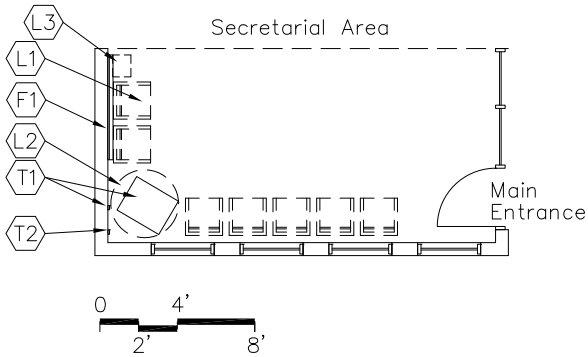
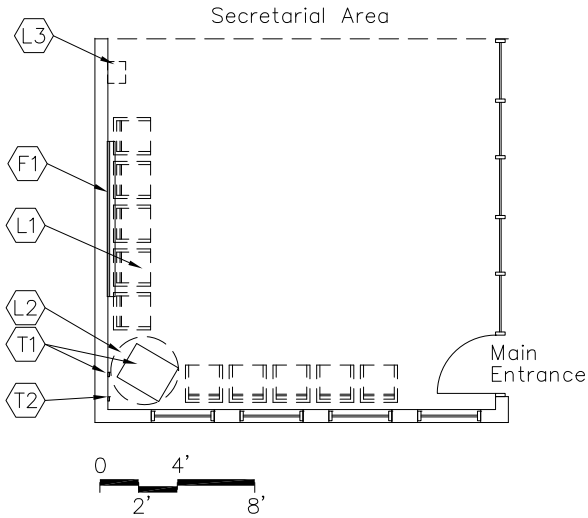
200 SF



600 SF



CAPACITY: 6 - 8 or 8 - 10 visitors
SIZE: 200 – 1,000 SF
ANCILLARY SPACES: Secretarial Area
H-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

H-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:

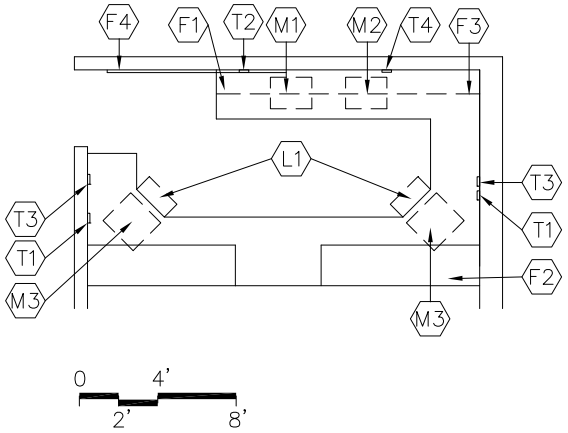
L1 Visitor chairs
L2 End table
L3 Racks for forms (optional)
Wastebasket

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

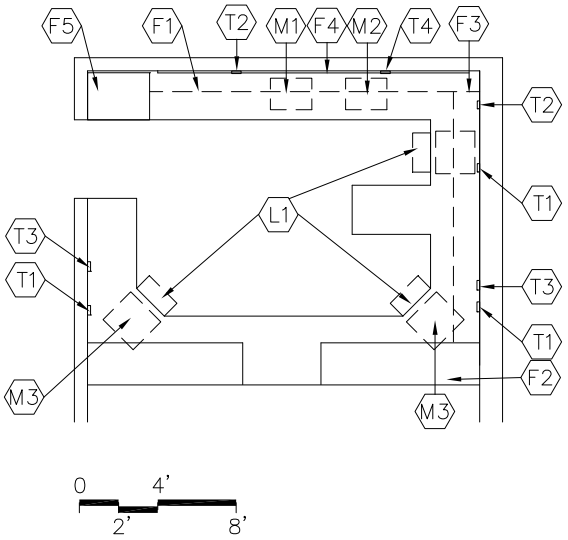
NOTES:

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

200 SF ADA Compliant Approach



600 SF ADA Compliant Approach



CAPACITY:	1 - 2 or 2 - 3 staff
SIZE:	200 – 1,000 SF
ANCILLARY SPACES:	Reception Area H-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

H-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:

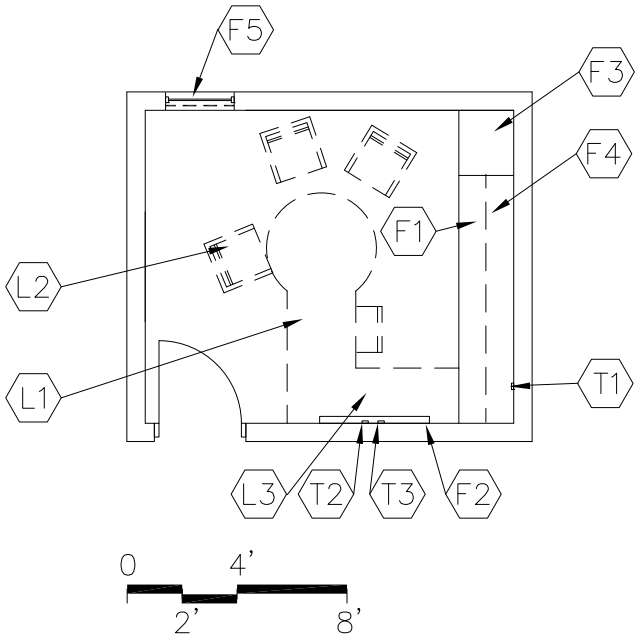
The following items are to be funded by the school district:

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 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	265100
Illumination level: See Table 8600-***5***	
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.



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY:	1 - 4 persons
SIZE:	150 SF

NOTES:

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

PRINCIPAL'S OFFICE

H-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

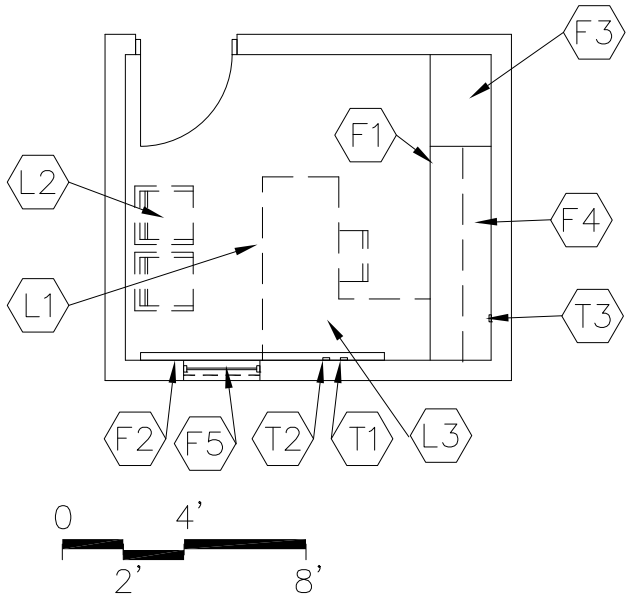
LOOSE FURNISHINGS:

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 or tackable wall surface	101100
F3 Tall wardrobe (optional)	123550
F4 Wall cabinets above work surface	123550
F5 Window with integral blind	085116
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

H-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

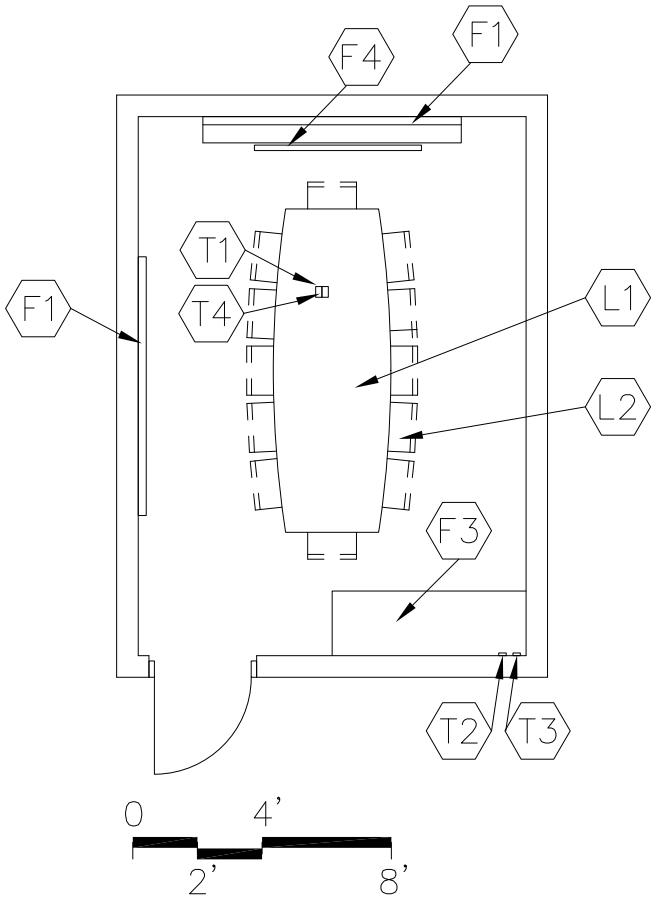
LOOSE FURNISHINGS:

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 or tackable wall surface	101100
F3 Tall wardrobe	123550
F4 Wall cabinets above work surface	123550
F5 Window with integral blind	085116
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 ***only*** minimum STC ***45***
  ceiling minimum CAC 35**,** NRC 0.70

NOTES:

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

CONFERENCE ROOM
H-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

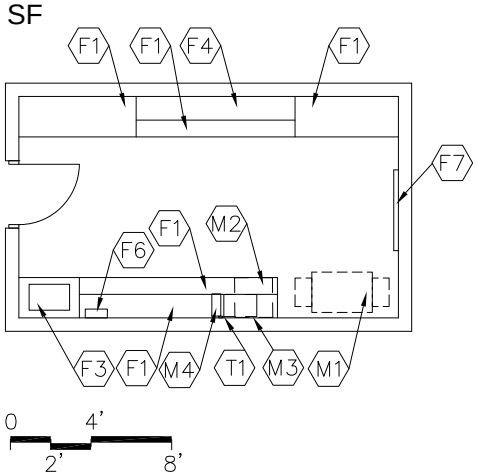
LOOSE FURNISHINGS:
L1 Conference table
L2 Chairs
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 16'-20' combination marker board, tack board, tackable wall surface	101100
F2 Reserved	
F3 4'-6' of base cabinets (optional)	123550
F4 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:	
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 and video display device	271543/274119
T2 1 voice port and phone	271513/273123
T3 1 data port	271513
T4 ***Ultra-short throw interactive*** projector	274119
Clock	275313
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

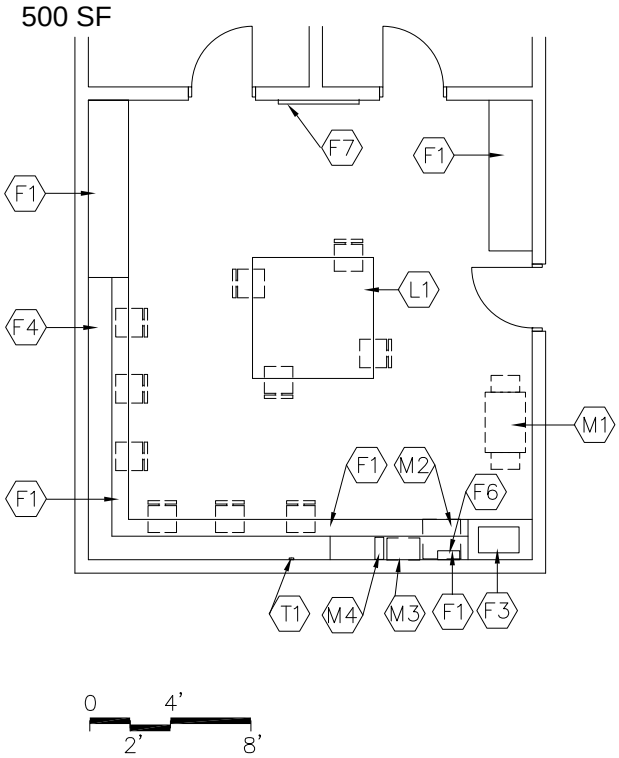
NOTES:

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

200 SF



500 SF



CAPACITY: N/A
SIZE: 200 - ***800 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

H-AD-6

FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet, carpet tile, linoleum, ET, rubber, 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 20'-24' combination wall and base cabinets	123550
F2 8'-12' of tall storage cabinets or about 32' maximum of a 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:

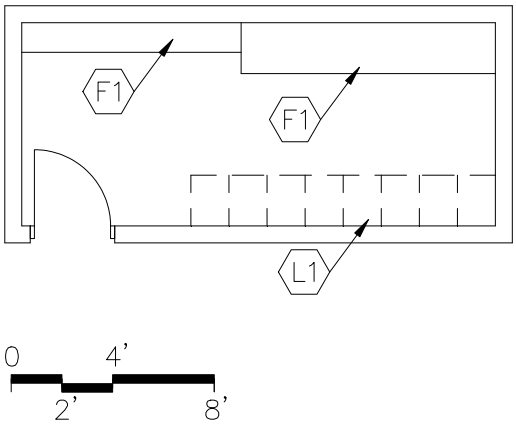
The following items are to be funded by the school district:

M1 Copier
M2 Undercounter refrigerator
M3 Microwave
M4 Coffee maker

NOTES:

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

150 SF



CAPACITY: N/A
SIZE: 150 - 400 SF

PROGRAM ACTIVITIES:
- Supplies, books, records, forms, and equipment storage

SPATIAL RELATIONSHIPS:
- Near mail/work/copy room
- Near vault/records storage

ENVIRONMENTAL CONSIDERATIONS:
N/A

NOTES:

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

ADMINISTRATIVE STORAGE
H-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

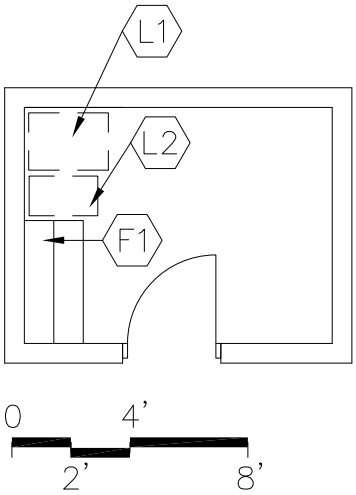
LOOSE FURNISHINGS:
L1 File cabinets

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 10'-20' of open shelving depth may vary (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	

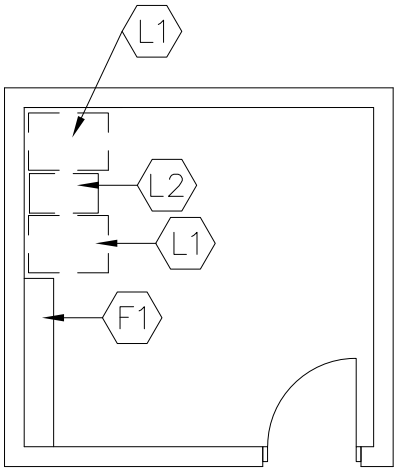
NOTES:

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

85 SF



140 SF



CAPACITY: N/A
SIZE: ***85 - 200 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

H-AD-8

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

LOOSE FURNISHINGS:

L1 File cabinet

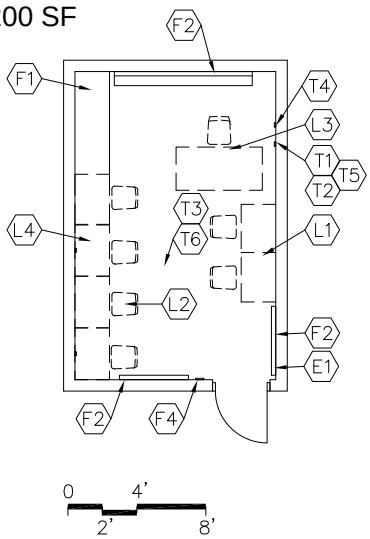
L2 Safe (loose or fixed)

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 3'-6' of open shelving, (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	

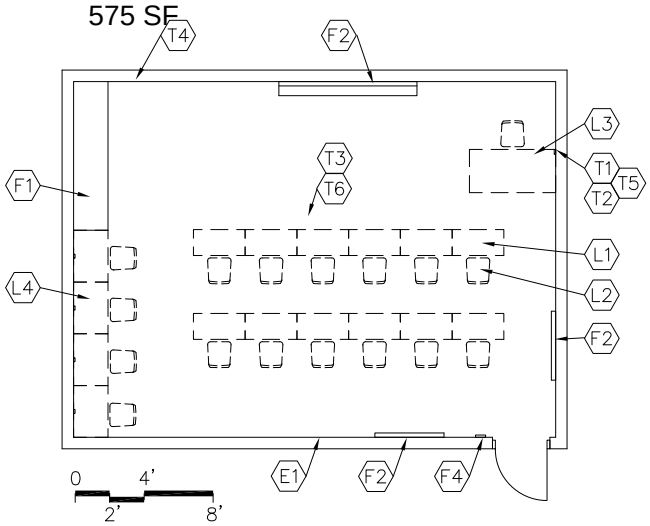
NOTES:

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

200 SF



575 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 only minimum STC 45
  ceiling minimum CAC 35**,** NRC 0.70

NOTES:

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

IN-SCHOOL SUSPENSION
H-AD-9

FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet, carpet tile, ET, linoleum, sheet vinyl, or rubber	096816 096500 096516 096813
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/092113

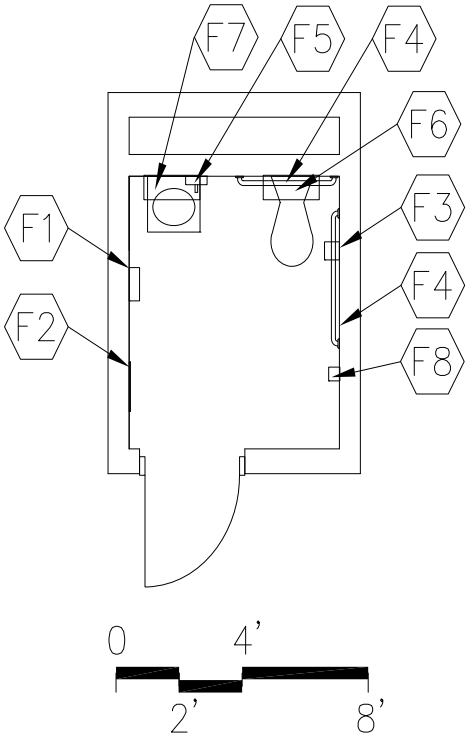
LOOSE FURNISHINGS:
- L1 Student carrels and/or desks
- L2 Student chairs
- L3 Teacher workstation and chair
- L4 Computer workstation furniture
  Wastebasket

	Spec. Ref.#
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 3'-4' of base cabinets (optional)	123550
F2 10'-16' combination marker board, tack board, tackable wall surface	101100
F3 Reserved	
F4 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. WAP device quantity / placement per 272133 requirements.***



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Located in the administrative area

ENVIRONMENTAL CONSIDERATIONS:

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

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

NOTES:

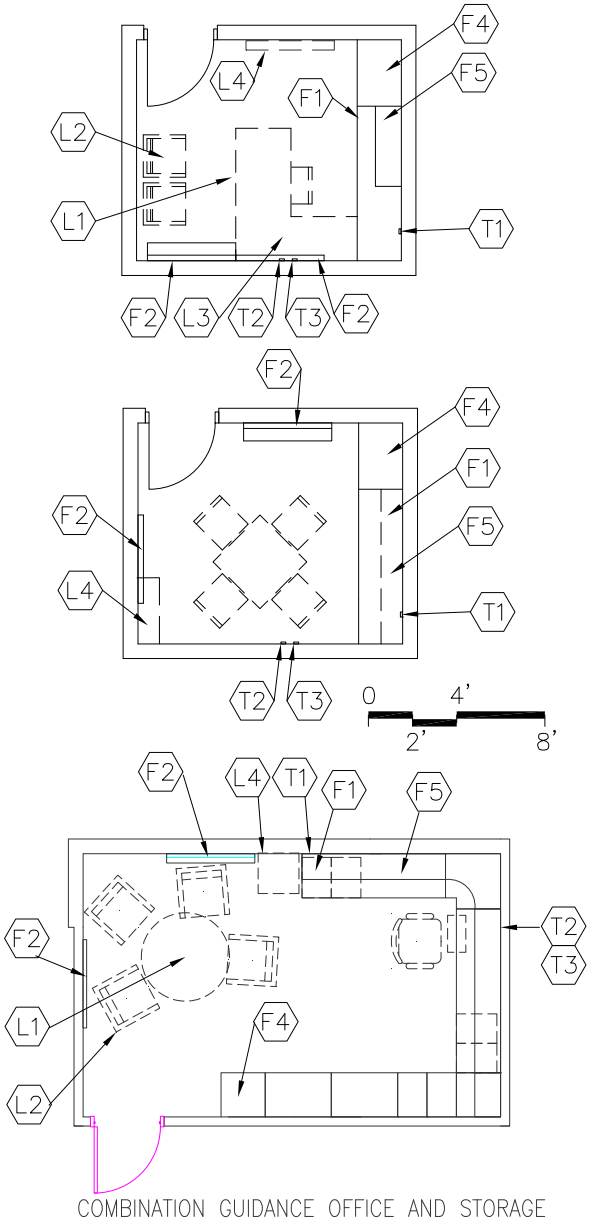
RESTROOM
H-AD-10

FINISHES[1]:	Spec. Ref.#
Flooring:	
ET, ***ceramic mosaic, porcelain***	096516
or sheet vinyl	096500
Optional: resinous flooring	093000
	096723
Base:	
Resilient base	096500
Optional: ceramic mosaic tile,	093000
porcelain tile, resinous flooring	096723
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.



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 blinds

NOTES:

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

GUIDANCE COUNSELOR'S OFFICE
H-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

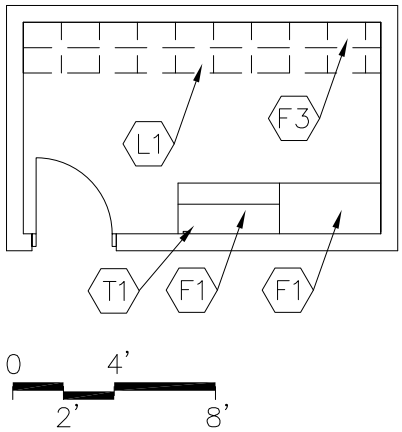
LOOSE FURNISHINGS:
L1 Desk or table, with chair
L2 Visitor chairs
L3 Computer desk return
L4 Bookcase (fixed or loose)
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Work surface with file drawers	123550
F2 8'-12' combination chalk/marker board, tack board, tackable wall surface	101100
F3 Reserved	
F4 Tall wardrobe	123550
F5 Wall cabinets	123550
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	

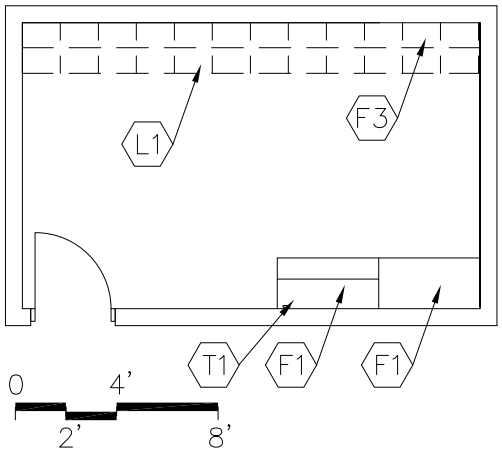
NOTES:

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.

100 SF



200 SF



CAPACITY: N/A
SIZE: 100 - 300 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
H-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:	
Painted gypsum wallboard over metal studs or	092116/099100
Painted concrete masonry units	042000/099100
Rated 2-hour construction	

LOOSE FURNISHINGS:
L1 File cabinets

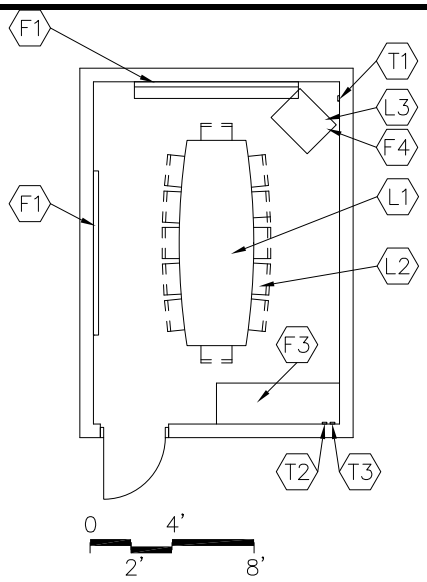
FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 ***6'-10' combination wall and base cabinets and tall cabinets***	123550
F2 ***Reserved***	
Option: mobile storage shelving ***or file cabinets***	105626
F3 4'-10' shelving (optional)	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
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:

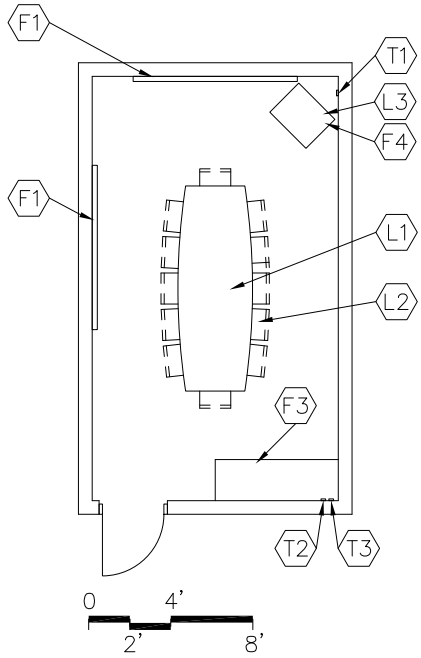
1. Finishes/Features: Refer to Chapter 9 for specification references.

GUIDANCE CONFERENCE ROOM
H-AD-13

150 SF



250 SF



CAPACITY: 12 - 15 persons
SIZE: 150 - 250 SF

PROGRAM ACTIVITIES:
- Conferences with staff, students, parents, and other community groups

SPATIAL RELATIONSHIPS:
- Near guidance counselors office
- Near principal's office
- Near reception area
- Near guidance records/storage area

ENVIRONMENTAL CONSIDERATIONS:
- Environmental sound control -
  wall minimum STC 45
  ceiling minimum CAC 35, NRC 0.70
- Optional – window with integral blinds

NOTES:

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

GUIDANCE CONFERENCE ROOM

H-AD-13

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:

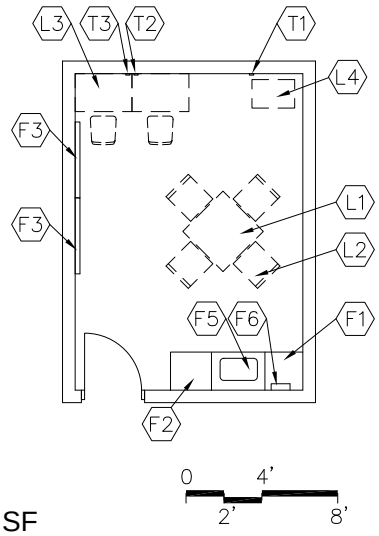
L1 Conference table
L2 Chairs
L3 Monitor cart or cabinet (could be fixed casework)
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 10'-16' combination marker board, tack board, tackable wall surface	101100
F2 Reserved	
F3 4'-6' of base cabinets	123550
F4 Technology support casework (optional)	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	
3 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 1 data port	271513
Clock	275313
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

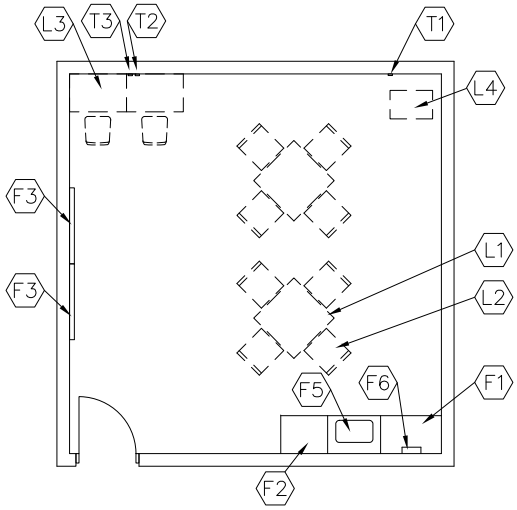
NOTES:

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

200 SF



400 SF



CAPACITY: 2 - 8 persons
SIZE: 200 - 400 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 blinds

NOTES:

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

PARENT/VOLUNTEER ROOM
H-AD-14

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

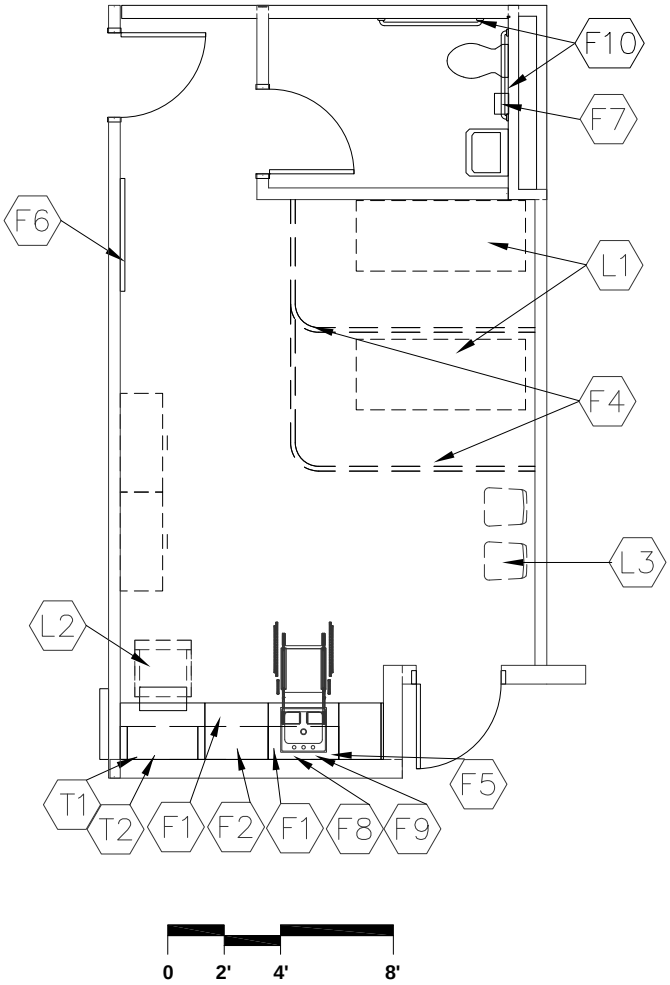
LOOSE FURNISHINGS:
L1 Table
L2 Chairs
L3 Computer workstation furniture
L4 Monitor cart
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 About 3' of base cabinets	123550
F2 Tall wardrobe or coat cabinet (optional)	123550
F3 8'-12' combination marker board, tack board, and tackable wall surface	101100
F4 Pencil sharpener support (optional)	062000
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. 15
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 and video display device	271543/274119
T2 1 voice port and phone	271513/273123
T3 1 data port near workstation	271513
Clock	275313
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
Pencil sharpener (optional)	

NOTES:

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

450 SF



CAPACITY: 2 - 3 patients
SIZE: Clinic…….***340 - 540 SF***
Restroom……60 SF
ANCILLARY SPACES: Secretarial Area H-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)*
H-AD-15

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

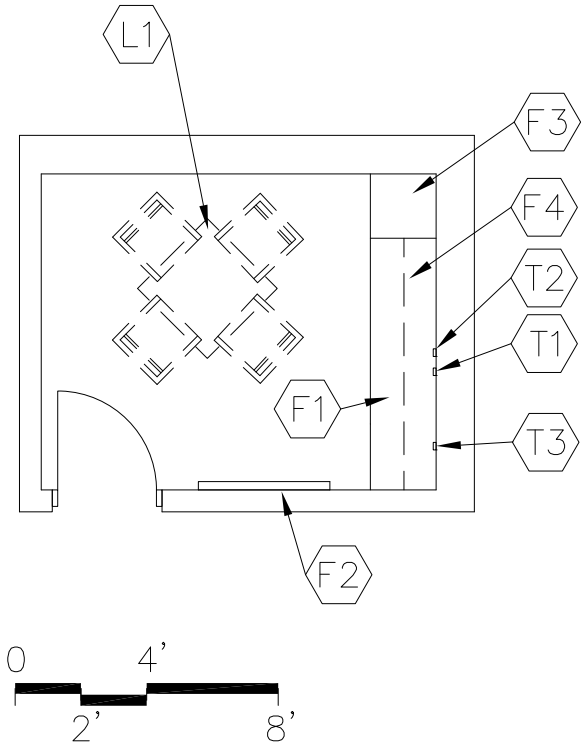
LOOSE FURNISHINGS:
L1 Cots
L2 Desk and chair
L3 Chairs
Wastebasket

EQUIPMENT
E1 Refrigerator with ice making capabilities

Miscellaneous:
N/A

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 ***8'-18' combination base and 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	101100
F7 Sanitary napkin dispenser/disposal	102813
F8 Soap dispenser	102813
F9 24" x 60" mirror	102813
F10 36" and 42" grab bars	102813
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.



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
H-AD-16

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

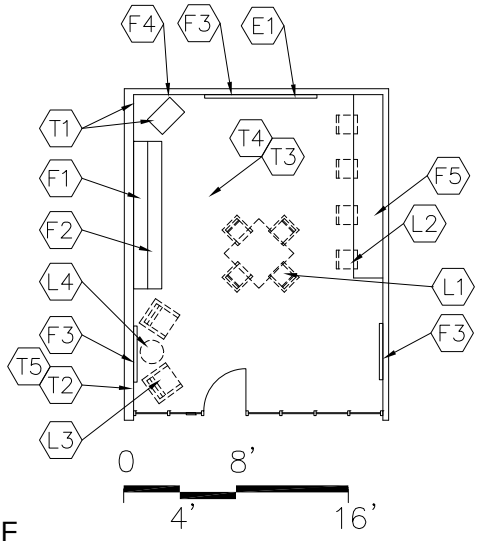
LOOSE FURNISHINGS:
L1 Table and chairs
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Work surface with file drawers(optional)	123550
F2 4' of tack board or tackable wall surface	101100
F3 Tall wardrobe (optional)	123550
F4 Wall cabinets	123550
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	

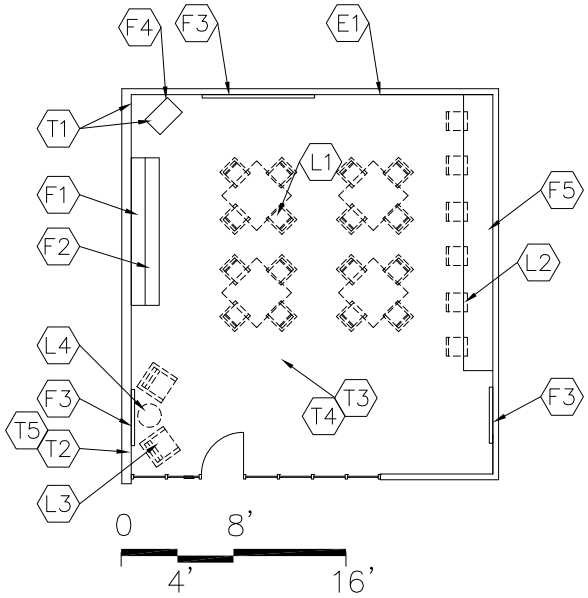
NOTES:

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.

300 SF



700 SF



CAPACITY: 6 - 16 persons
SIZE: 300 - 715 SF

PROGRAM ACTIVITIES:
- Counselors assisting students with career exploration and college planning
- Small group presentation
- Small group meetings
- Interviews

SPATIAL RELATIONSHIPS:
- Close to secretarial area
- Close to guidance counselor's office

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.

CAREER CENTER
H-AD-17

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

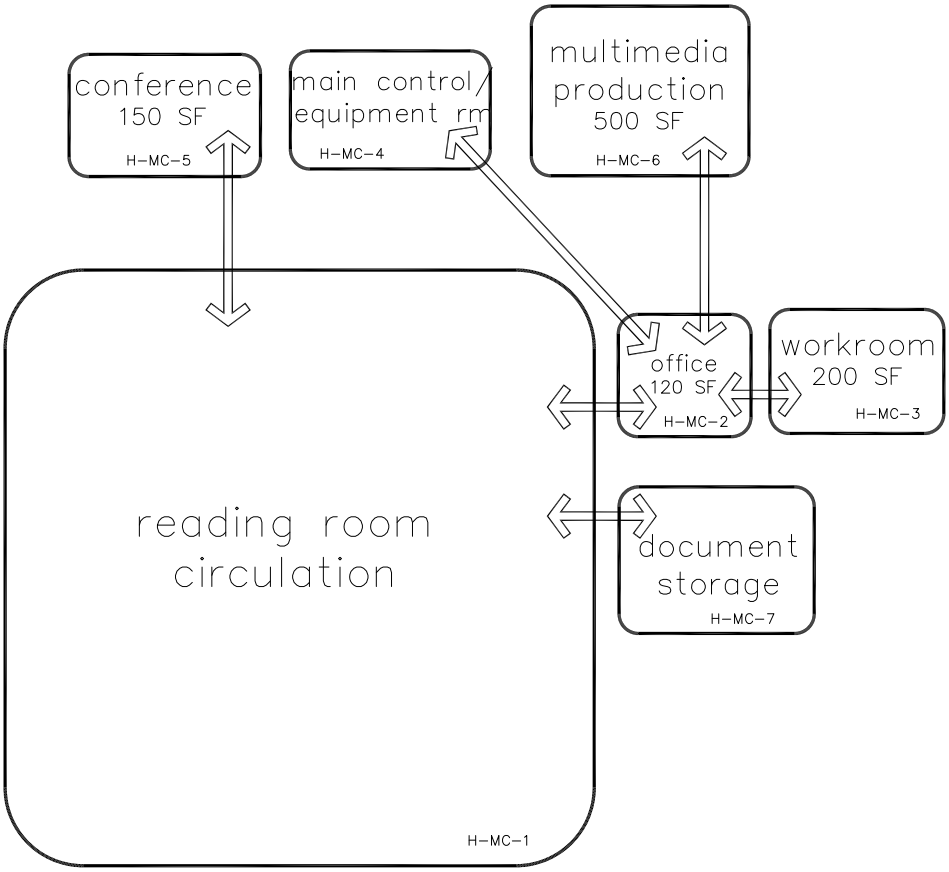
LOOSE FURNISHINGS:
L1 Work tables and chairs
L2 Workstation chairs
L3 Reading chairs
L4 Small table
Wastebasket

Electronic Safety and Security:	
Life safety devices per code	283111

Miscellaneous:
E1 Duplex receptacle with dedicated circuit for wireless devices

FEATURES[1]:		Spec. Ref.#
Fixed Items:		
F1	8'-16' display cabinets	123550
F2	About 9' base cabinets	123550
F3	12'-16' combination marker board, tack board, tackable wall surface	101100
F4	Technology support casework	123550
F5	Workstation	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
	4 duplex receptacles	262726
	Double duplex receptacles adjacent to each data and video port	262726
Communications:		
T1	1 ***projector*** video port and video display device	271543/274119
T2	1 voice port	271513/273113
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 4***	***272133***
T5	***Classroom technology center video port***	***271543, 274116, 274119, 275127***

NOTES:
1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Fixed casework and loose furnishings can also be all fixed or all loose.
3. Technology components may be placed in a separate small cabinet, or integrated in the other casework in the room.
4. ***Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.***



NOTE:

This is an example of how the media center spaces in a high school could be arranged. This is only meant to demonstrate the relationships between various areas of the building.

Following are the Media Center space plates:

H-MC-1	Reading Room/Circulation
H-MC-2	Media Specialist Office
H-MC-3	Workroom/Storage
H-MC-4	Main Control / Equipment Room
H-MC-***5***	Conference Room
H-MC-***6***	Multimedia Production Room
H-MC-***7***	Document Storage

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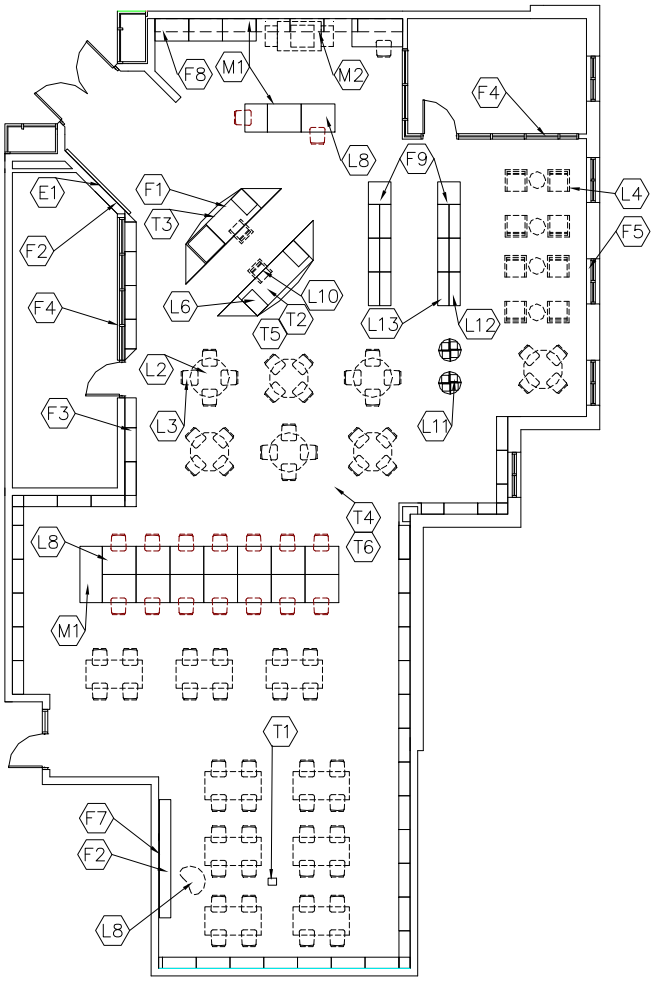


CAPACITY: 10% of student capacity
SIZE: 10% of student capacity multiplied by 35 SF per student

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:

- Natural light opening
- 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

NOTES:

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

READING ROOM/CIRCULATION

H-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[2]:

L1 Mobile book carts
L2 Student tables
L3 Student chairs
L4 Casual seating chairs
L5 Study carrels (optional)
L6 (3) Desk height file cabinets
L7 Atlas stand (optional)
L8 Computer workstation furniture
L9 Dictionary stand (optional)
L10 Circulation desk task chair
L11 Paperback book racks
L12 Newspaper racks
L13 Magazine display
Wastebaskets

Electronic Safety and Security:	
Life safety devices per code	283111

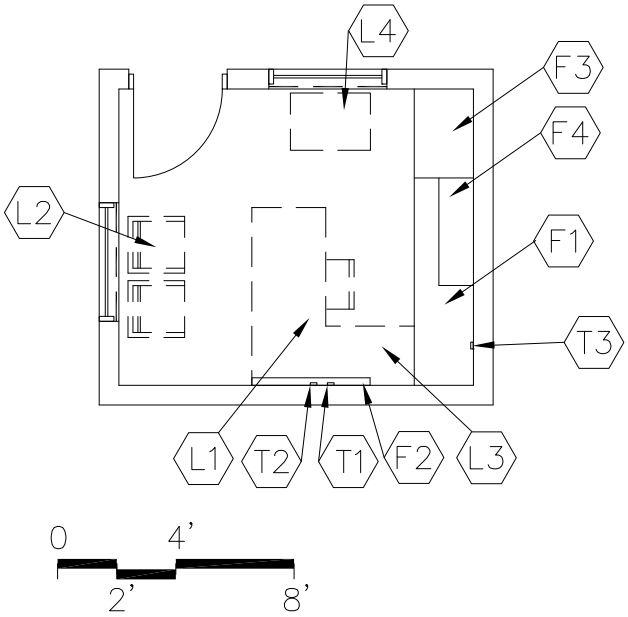
Miscellaneous:
Pencil sharpener (optional)
The following items are to be funded by the owner:
M1 2 printers: 1 at circulation desk and 1 in student work area
M2 Copier

E1 Duplex receptacle with dedicated circuit for wireless devices

FEATURES[1]:		Spec. Ref.#
Fixed Items:		
F1	Circulation desk casework	123550
F2	12'-20' combination marker board, tack board, tackable wall surface	101100
F3	Library book shelving (see notes)	115123
F4	Interior windows	081113/088000
F5	Windows with integral blinds or shades	085113
F6	Pencil sharpener support (optional)	062000
F7	Projection screen (optional)	115213
F8	Technology support casework	123550
F9	Search station terminals	123550
	Roller window shades (optional)	122413
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
	10 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
Communications:		
T1	1 ***projector*** video port and video display device	271543/274119
T2	1 voice port and phone at circulation desk	271513/273123
T3	2 data ports for media center automation system	271513
T4	***Wireless access point cable above ceiling***	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 desks and library shelving can be loose furnishings.
3. Technology components maybe 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 moveable.
6. Baseline includes WAP cable. WAP device quantity / placement per 272133 requirements.

MEDIA SPECIALIST OFFICE
H-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

H-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:

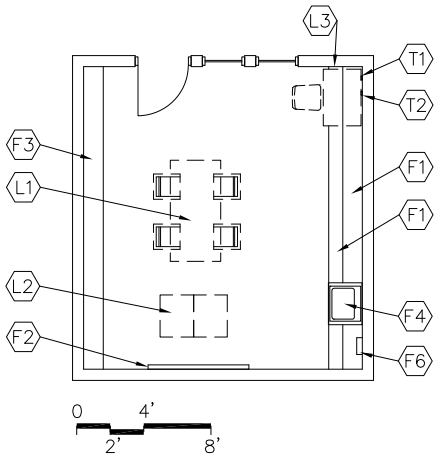
L1 Desk and chair
L2 Visitor chairs
L3 Computer desk return
L4 File cabinet
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Work surface with file drawers	123550
F2 4' of tack board or tackable wall surface	101100
F3 Tall wardrobe	123550
F4 Wall cabinets	123550
F5 Bookcases (optional)	123550
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

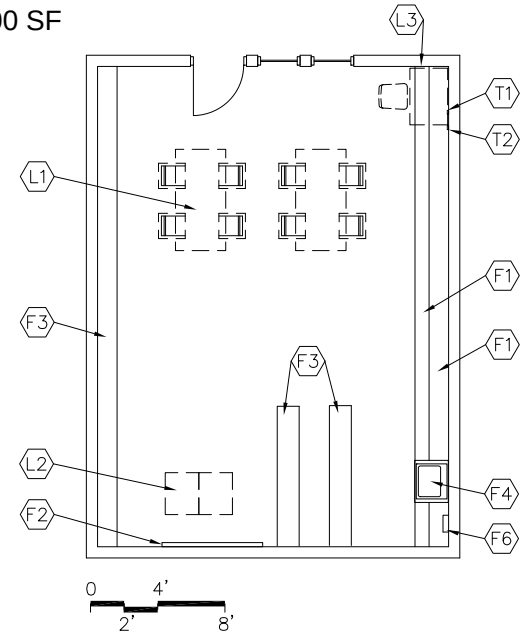
NOTES:

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

300 SF



600 SF



CAPACITY: 2 - 8 staff
SIZE: 300 - 700 SF

PROGRAM ACTIVITIES:
- Space for 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
H-MC-3

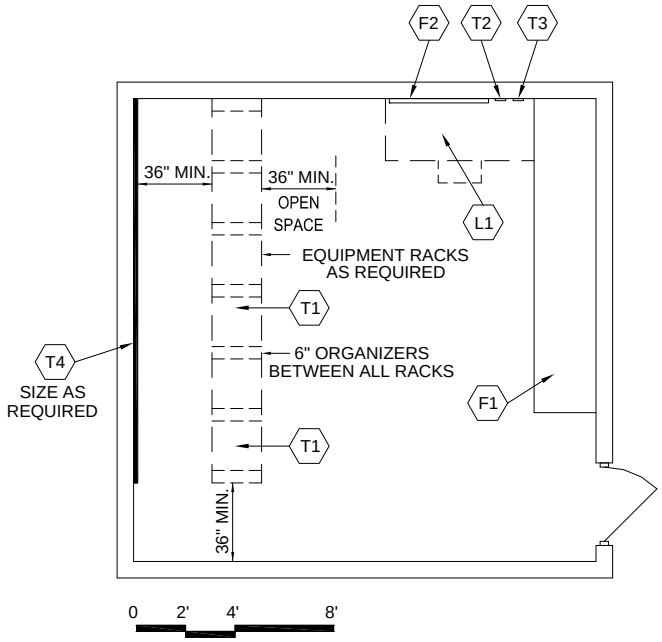
FINISHES[1]:	Spec. Ref.#
Flooring:	
Linoleum, rubber***, ET or sheet***	096500
Vinyl	***096516***
Option: Carpet, carpet tile	***096813***
	096816
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:
- L1 Table and chairs
- L2 Book trucks
- L3 Computer workstation
  Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items[2]:	
F1 ***26'-50' combination base, wall and tall cabinets***	123550
F2 4'-8' of tack board ***or marker board***	101100
F3 16'-60' of bookcases	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 (coupled with similarly loaded adjacent spaces)	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 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 - 400 SF

ER Utilized for local serving zone – add minimum 80 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

H-MC-4

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

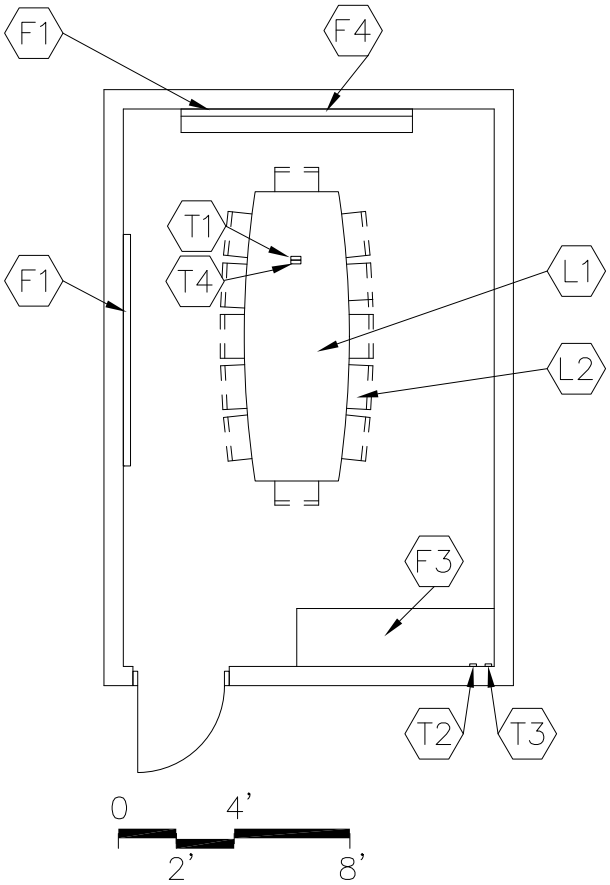
LOOSE FURNISHINGS:

L1 Desk and chair
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 8'-16' of open shelving, depth may vary (fixed or loose)	123550
F2 4' of tack board or marker board	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 1/4" plywood back board	271313
Electronic 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: 250 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

NOTES:

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

CONFERENCE ROOM
H-MC-*5*

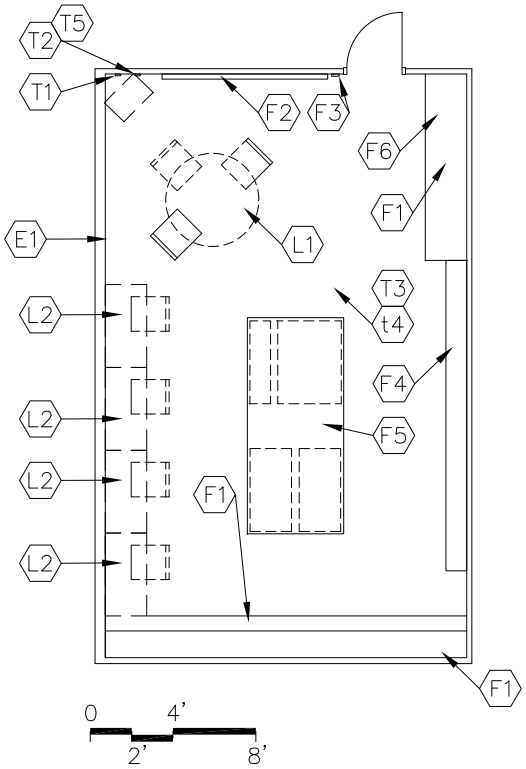
FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet or Carpet Tile	096816 096813
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:
L1 Conference table
L2 Chairs
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items[2]:	
F1 14'-18' combination marker board, tack board and tackable wall surface	101100
F2 Reserved	
F3 4'-6' of base cabinets (optional) (fixed or mobile)	123550
F4 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:	
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
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.
2. Ranges shown indicate quantities for the smallest and largest possible room size.
3. Fixed casework and loose furnishings can be also all fixed or all loose.

500 SF



CAPACITY: 5 - 7 persons
SIZE: 500 - 800 SF

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

H-MC-6

FINISHES[1]:	Spec. Ref.#
Flooring:	
Linoleum,	096500
ET, sheet vinyl, or rubber	096516
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, laminators

E1 Duplex receptacle with dedicated circuit for wireless devices

FEATURES[1]:	Spec. Ref.#
Fixed Items[2]:	
F1 15'-45' combination base, wall and tall cabinets	123550
F2 4'-8' of tack board or marker board	101100
F3 Pencil sharpener support (optional)	062000
F4 4' - 16' of tall bookcases	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

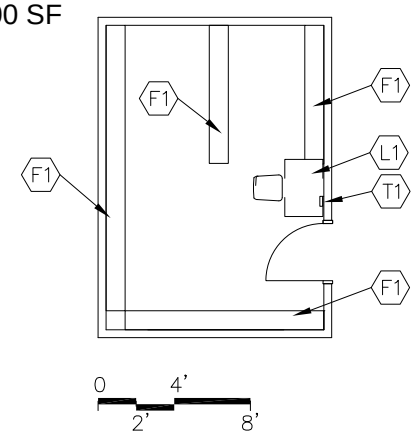
T4 Wireless access point (WAP) as determined by Design – refer to Note 3 272133

T5 Classroom technology center video port 271543, 274116, 274119, 275127

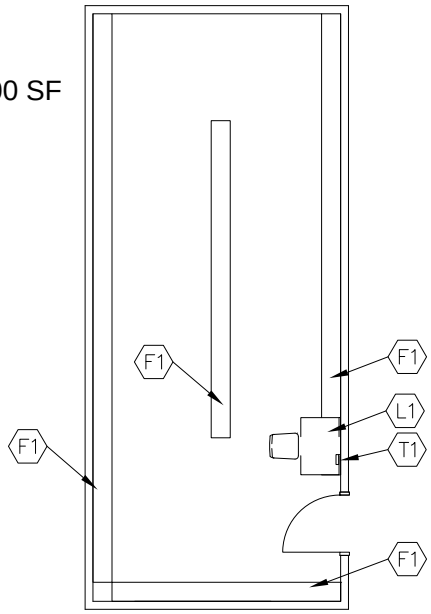
NOTES:

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 per classroom. WAP device quantity / placement per 272133 requirements.***

200 SF



400 SF



CAPACITY: N/A
SIZE: 200 - 500 SF

PROGRAM ACTIVITIES:

- Secured storage for documents, including newspapers, periodicals, microfilm and microfiche

SPATIAL RELATIONSHIPS:

- Near reading room/circulation

ENVIRONMENTAL CONSIDERATIONS:
N/A

NOTES:

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

DOCUMENT STORAGE
H-MC-*7*

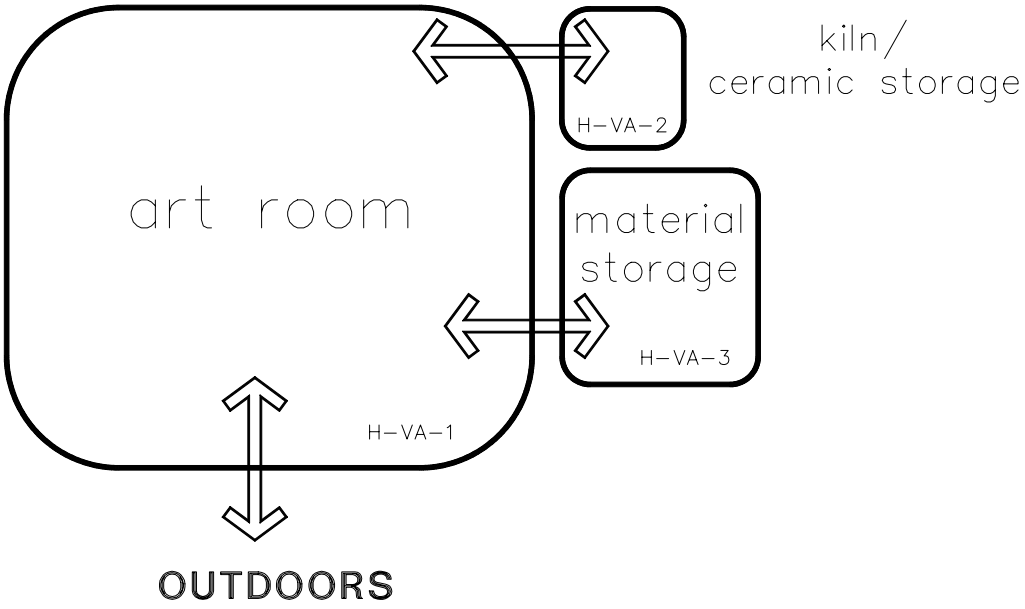
FINISHES[1]:	Spec. Ref.#
Flooring:	
Linoleum, rubber***, ET,***	096500
sheet vinyl	***096516***
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:
L1 Computer worksurface

FEATURES:	Spec. Ref.#
Fixed Items[2]:	
F1 36' – 80' of open shelving (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:	
Fluorescent lighting:	265100
Illumination level: See Table 8600-***5***	
Single level switching	262726
2 duplex receptacles	262726
Communications:	
T1 1 data port (optional)	271523
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.



NOTE:

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

Following are the Visual Art space plates:

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

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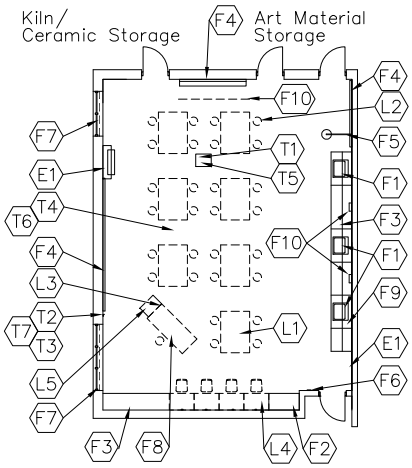
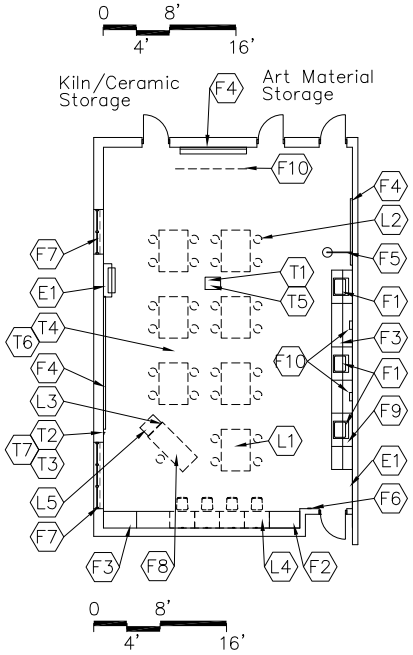
1200 SF



1400 SF



CAPACITY: 25 students
SIZE: 1,200 – 1,400 SF
ANCILLARY SPACES: Kiln/Ceramic Storage H-VA-2
Art Material Storage H-VA-3

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

ART ROOM

H-VA-1

FINISHES[1]:	Spec. Ref.#
Flooring:	
Linoleum,	096516
ET, sheet vinyl, rubber,	096500
sealed concrete,	033000
polished concrete finishing, or	033510
colored concrete finishing	033519
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	085113
Walls:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:

L1 Student work tables
L2 Student chairs or stools
L3 Teacher desk and chair and teacher computer support
L4 Computer workstation furniture
L5 Desk height file cabinet
Wastebasket

EQUIPMENT

E1 Drying rack

Electronic Safety and Security:	
Life safety devices per code	283111

Miscellaneous:

Pencil sharpener (optional)
Potter wheels by owner

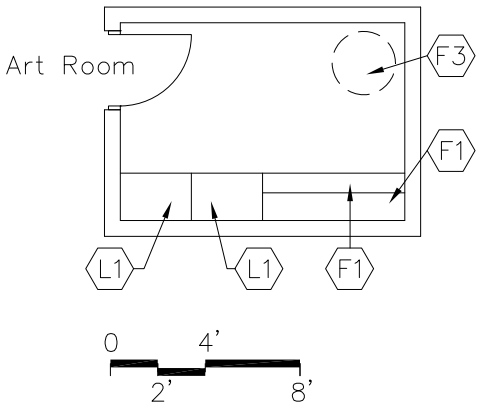
E1 Duplex receptacle with dedicated circuit for wireless devices

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 3'-4' sink base cabinet with wall cabinets above or wash fountains	123550
F2 Tall wardrobe with file drawers	123550
F3 16'-22' combination base, wall and tall cabinets	123550
F4 22'-36' combination marker board, tack board, tackable wall surface	101100
F5 Emergency eyewash	224000
F6 Pencil sharpener support(optional)	062000
F7 Windows with integral blinds	085113
F8 Technology support casework	123550
F9 Towel dispenser	102813
F10 Projection screen (optional)	115213
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Sinks with solids interceptor	224000
Plumbing connections	224000/221116/221119
Emergency eyewash connections	224000
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Manually controlled general exhaust	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
Track lighting (optional)	265100
Means of egress lighting per code	265100
Emergency lighting per code	265100
Power for potters wheels	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 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***

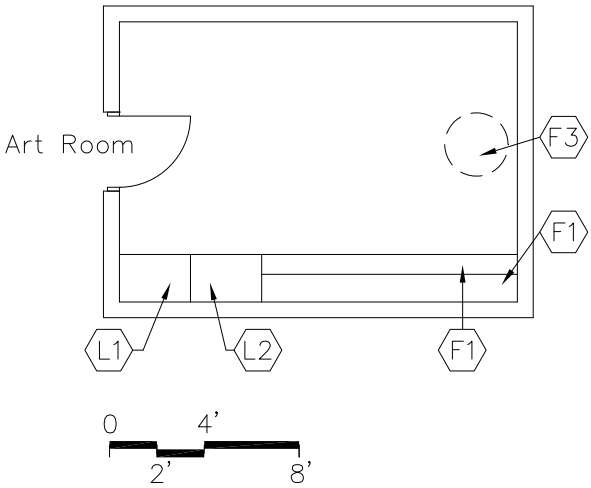
NOTES:

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.***

100 SF



200 SF



CAPACITY:	N/A
SIZE:	100 - 300 SF
ANCILLARY SPACES:	Art Room H-VA-1

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

NOTES:

KILN/CERAMIC STORAGE

H-VA-2

FINISHES[1]:	Spec. Ref.#
Flooring:	
ET, sheet vinyl,	***033000***
sealed concrete,	***096500***
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)

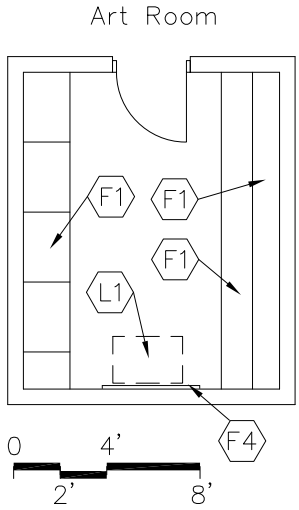
L1 and L2 could be fixed casework.

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 ***6'-12' combination base and wall cabinets***	123550
F2 ***Reserved***	
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	

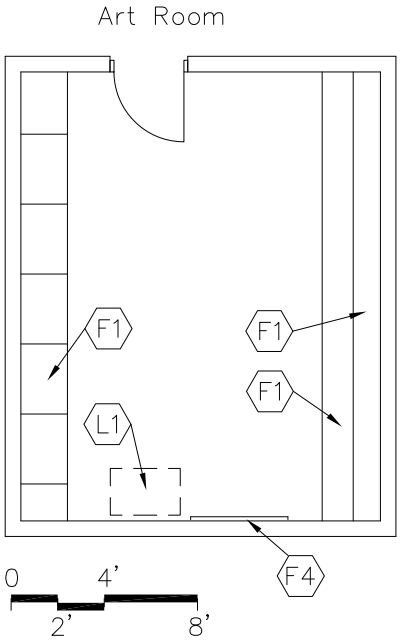
NOTES:

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

200 SF



300 SF



CAPACITY:	N/A
SIZE:	200 - 400 SF
ANCILLARY SPACES:	Art Room H-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
H-VA-3

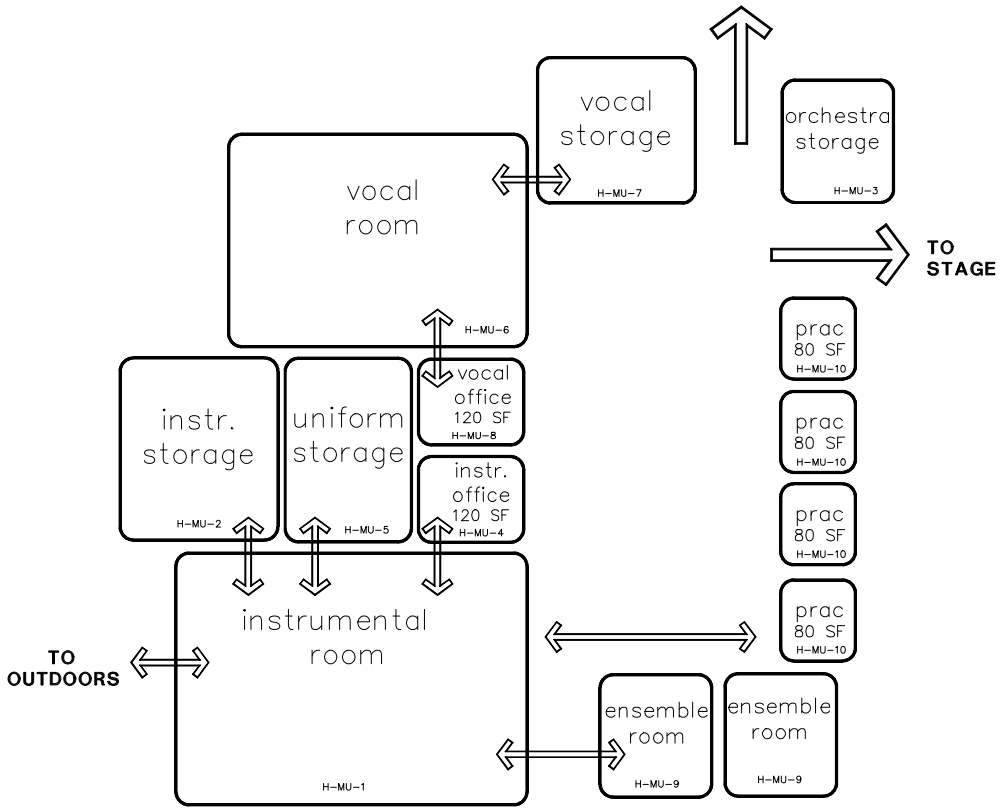
FINISHES[1]:	Spec. Ref.#
Flooring:	
ET, ***sealed concrete, rubber,***	096500
sheet vinyl,	***033000***
polished concrete finishing, or	033510
colored concrete finishing	033519
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:
L1 Mobile materials cart

FEATURES[1]:	Spec. Ref.#
Fixed Items[2]:	
F1 ***16' – 28' combination tall storage cabinets and wall cabinets***	123550
F2 8' - 14' base cabinets, (depth for school's need)	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-***5***	
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 high school could be arranged. This is meant only to demonstrate the relationships between various areas of the building.

Following are the Music space plates:

H-MU-1	Instrumental Room
H-MU-2	Instrument Storage
H-MU-3	Orchestra Storage
H-MU-4	Instrumental Music Library
H-MU-5	Uniform Storage
H-MU-6	Vocal Room
H-MU-7	Vocal Storage
H-MU-8	Vocal Music Library
H-MU-9	Ensemble Room
H-MU-10	Practice Room

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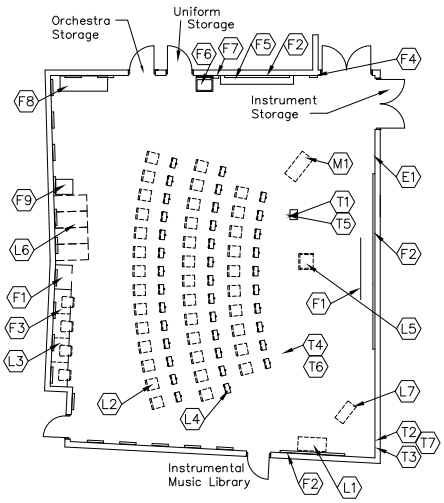
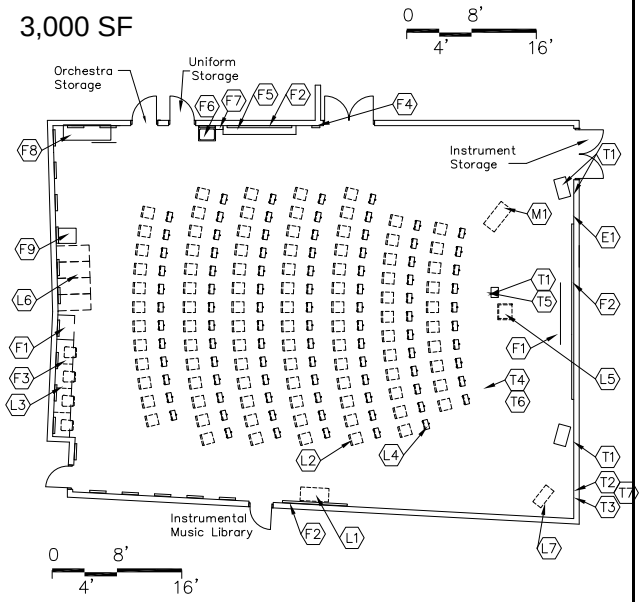
1,800 SF



3,000 SF



CAPACITY: 40 – 90 students
SIZE: 1,800 – 3,000 SF
ANCILLARY SPACES: Instrument Storage H-MU-2
Orchestra Storage, H-MU-3
Instrumental Music Library, H-MU-4
Uniform Storage, H-MU-5

PROGRAM ACTIVITIES:

- All instrumental music activities including marching band, concert jazz, and pep bands
- Individual, small group and class size practice
- Computer composition and performance of music
- Music reading instruction

SPATIAL RELATIONSHIPS:

- Grouped with other noise producing activities
- Access to parking
- Direct access to outdoors
- Convenient access to stage
- Near vocal room
- Adjacent to instrumental music library, and instrument, orchestra and uniform storage
- Near practice rooms

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
  wall minimum STC 60
  ceiling minimum CAC 35, NRC 0.70
- Large doors
- Ceiling heights: 14' minimum,
  18'-20' preferred; 24' maximum
- Acoustical requirements and other factors as determined by final configuration and other factors of the space

NOTES:

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

INSTRUMENTAL ROOM

H-MU-1

FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet, carpet tile,	096500
linoleum, rubber, ET,	096516
or sheet vinyl	096816
	096813
Base:	
Resilient	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100
Acoustical wall treatment (varies with geometry of room) absorptive 25%, reflective 25%, diffusive 50%	098000

LOOSE FURNISHINGS:

L1 Mobile sheet music cabinet
L2 Music chairs and caddies
L3 Computer workstation furniture
L4 Music stands
L5 Conducting podium
L6 Mobile percussion instrument storage cabinet
L7 Teacher workstation
Wastebasket

Electronic Safety and Security:	
Life safety devices per code	283111

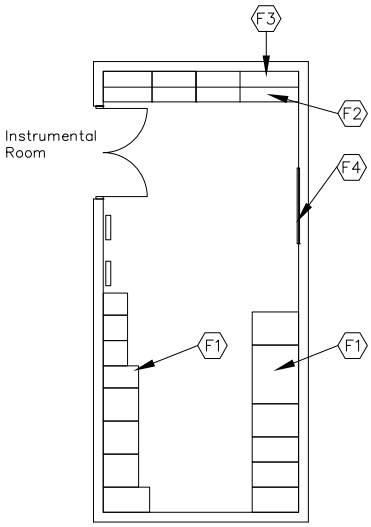
Miscellaneous:
Pencil sharpener (optional)
Doors are to have acoustic trim accessories or sound doors.
The following items are to be funded by the school district:
M1 Piano

E1 Duplex receptacle with dedicated circuit for wireless devices

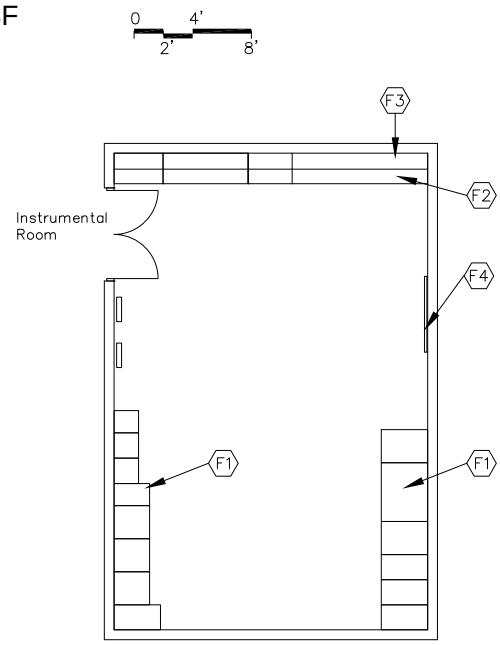
FEATURES[1]:		Spec. Ref.#
Fixed Items:		
F1	Projection screen (optional)	115213
F2	12'-32' combination marker board, tack board & tackable wall surface	101100
F3	Technology support casework	123550
F4	Pencil sharpener support (optional)	062000
F5	4'-9' of bookcases (see note 3)	123550
F6	3' sink base cabinet	123550
F7	Towel dispenser	102813
F8	Wardrobe (optional in storage room)	
F9	Stereo cabinet (optional)	
Fire Suppression:		
	Fire suppression system	211000
Plumbing:		
	Sink, 10" deep	224000
HVAC:		
	Supply/return air system	Div. 23
	Independent temperature control	230923
Electrical:		
	Fluorescent lighting: Illumination level: see table 8600-5	265100
	Multilevel switching	262726
	6 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
	Telecommunications Grounding	270526/260526
Communications:		
T1	1 ***projector*** video port	271543
T2	1 voice port and phone	271513/273123
T3	1 data port	271513
T4	***Wireless access point cable above ceiling***	271513
	Clock	275313
	Central sound system	275123
	High school music sound system	275126
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. Sink could be in storage room.
3. For small population schools, provide additional bookcases or cabinets in lieu of H-MU-3 music library.
4. ***Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.***

400 SF



700 SF



CAPACITY:	N/A
SIZE:	400 - 800 SF
ANCILLARY SPACES:	Instrumental Room H-MU-1

PROGRAM ACTIVITIES:
- Storage of band instruments

SPATIAL RELATIONSHIPS:
- Adjacent to instrumental room
- Access to outdoors through instrumental room
- Instrument storage casework to accommodate the potential number and type of instruments

ENVIRONMENTAL CONSIDERATIONS:
- Wide doors

NOTES:

INSTRUMENT STORAGE
H-MU-2

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

LOOSE FURNISHINGS:
Wastebasket

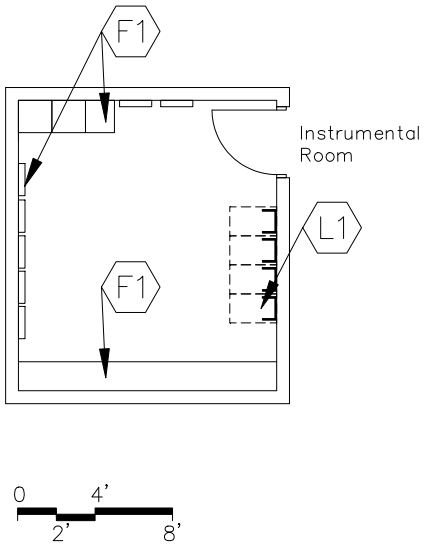
FEATURES:	Spec. Ref.#
Fixed Items[2]:	
F1 Miscellaneous instrument storage Cabinets and racks	123550
F2 3'-5' of base cabinets (optional)	123550
F3 3'-5' of wall cabinets (optional)	123550
F4 4' of tack board (optional)	101100
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Plumbing connections	224000/221116/221119
HVAC:	
Exhaust air system	Div. 23
Supplemental heat as required	Div. 23
Electrical:	
Fluorescent lighting:	265100
Illumination level: See Table 8600-***5***	
Single level switching	262726
1 duplex receptacle	262726
Communications:	
N/A	
Electronic Safety and Security:	
N/A	
Miscellaneous:	
N/A	

NOTES:

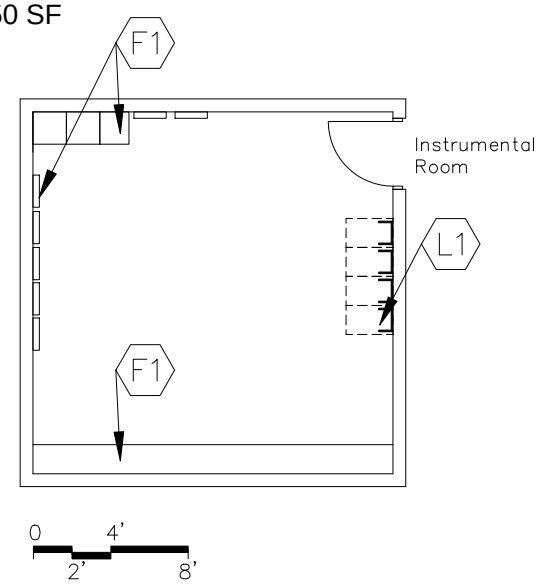
1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Ranges shown indicate quantities for the smallest and largest possible room size.

ORCHESTRA STORAGE
H-MU-3

200 SF



350 SF



CAPACITY:	N/A
SIZE:	200 - 500 SF
ANCILLARY SPACES:	Instrumental Room H-MU-1

PROGRAM ACTIVITIES:
- Storage of orchestra instruments

SPATIAL RELATIONSHIPS:
- Direct access to instrumental room
- Access to outdoors through instrumental room
- Instrument storage casework to accommodate the potential number and type of instruments

ENVIRONMENTAL CONSIDERATIONS:
- Wide doors

NOTES:

ORCHESTRA STORAGE

H-MU-3

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

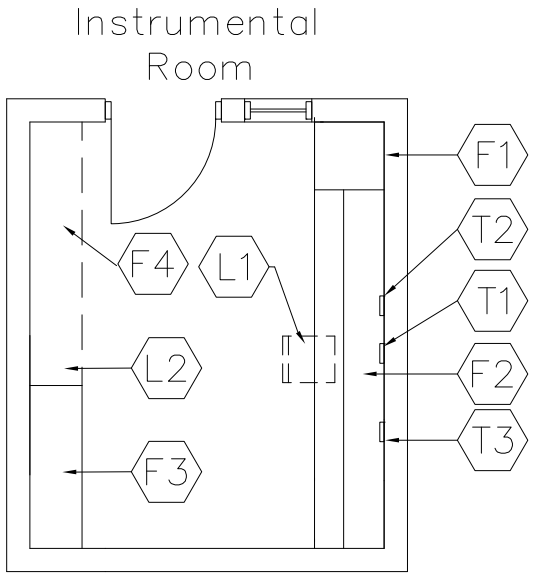
LOOSE FURNISHINGS:

L1 Carts for large instruments

FEATURES:	Spec. Ref.#
Fixed Items:	
F1 Miscellaneous instrument storage Cabinets and racks	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Exhaust air system	Div. 23
Supplemental heat as required	Div. 23
Electrical:	
Fluorescent lighting:	265100
Illumination level: See Table 8600-***5***	
Single level switching	262726
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:

- Area for the band director to do planning, scheduling, grading, and conferencing

SPATIAL RELATIONSHIPS:

- Adjacent to instrumental room
- Adjacent to ensemble and practice rooms

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY:	1 - 3 persons
SIZE:	120 SF
ANCILLARY SPACES:	Instrumental Room H-MU-1

NOTES:

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

INSTRUMENTAL MUSIC LIBRARY
H-MU-4

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

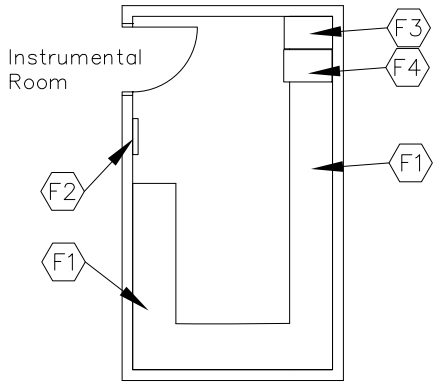
LOOSE FURNISHINGS:
L1 Chair
L2 Sheet music storage
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Tall wardrobe	123550
F2 Work surface with file drawers	123550
F3 2'-4' tall storage cabinet (optional)	123550
F4 Shelving or	123550
mobile music storage shelving	105626
F5 4' of tack 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 8600-5	
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
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

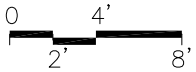
NOTES:

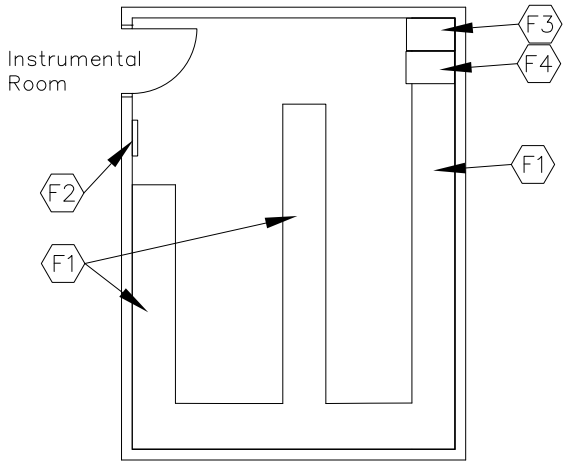
1. Finishes/Features: Refer to Chapter 9 for specification references.

150 SF



300 SF





CAPACITY: N/A
SIZE: 150-400 SF
ANCILLARY SPACES: Instrumental Room
H-MU-1

PROGRAM ACTIVITIES:
- Storage of instrumental uniforms

SPATIAL RELATIONSHIPS:
- Adjacent to instrumental room

ENVIRONMENTAL CONSIDERATIONS:
N/A

NOTES:

UNIFORM STORAGE
H-MU-5

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

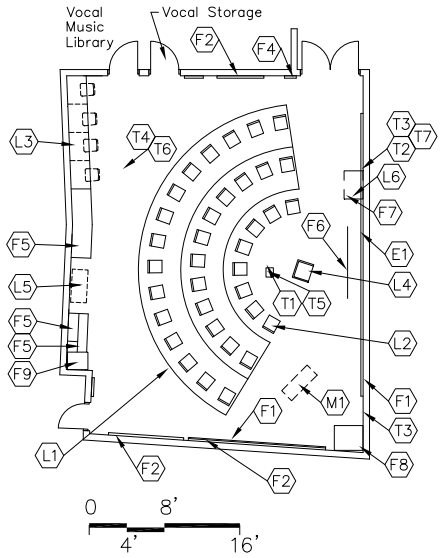
LOOSE FURNISHINGS:
N/A

FEATURES:	Spec. Ref.#
Fixed Items[2]:	
F1 20'-44' of uniform and hat storage cabinets	123550
F2 20" x 60" mirror (optional)	102813
F3 Tall cabinets (optional)	123550
F4 Bins for auxiliary core equipment (optional)	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Exhaust air system	Div. 23
Supplemental heat as required	Div. 23
Electrical:	
Fluorescent lighting:	265100
Illumination level: see table 8600-***5***	
Single level switching	262726
1 Duplex receptacle	262726
Communications:	
N/A	
Electronic Safety and Security:	
N/A	
Miscellaneous:	
N/A	

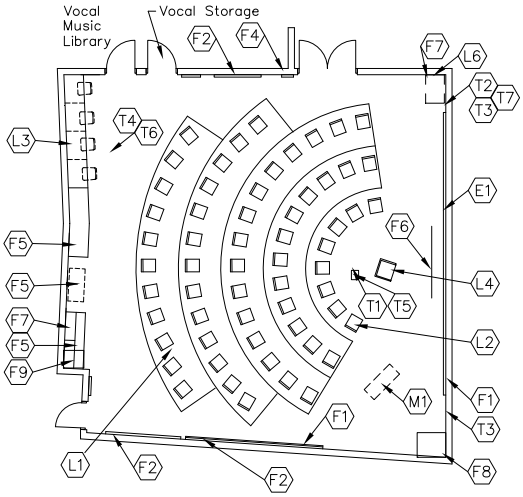
NOTES:

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

1,200 SF



1,500 SF



CAPACITY: 35 - 60 students
SIZE: 1200 - 1500 SF
ANCILLARY SPACES:
Vocal Music Library, H-MU-8
Vocal Storage, H-MU-7

PROGRAM ACTIVITIES:
- Vocal music activities including chamber choir, concert and swing choirs
- Solo, sectional, and class size practice
- Computer composition and performance of music
- Music reading instruction

SPATIAL RELATIONSHIPS:
- Grouped with other noise producing activities
- Convenient access to stage
- Near instrumental room
- Adjacent to vocal music library and vocal storage
- Near practice and ensemble rooms

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

NOTES:

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

VOCAL ROOM
H-MU-6

FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet, carpet tile	096816
Optional: ET, sheet vinyl	096500
linoleum, or rubber	096516
	096813
Base:	
Resilient	096500
Ceiling:	
Suspended acoustical	095113
Absorptive 25%, reflective 25%, diffusive 50%	
Walls:	
Painted concrete masonry units	042000/099100
Acoustical wall treatment (varies with geometry of room)	098000

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

Electronic Safety and Security:	
Life safety devices per code	283111

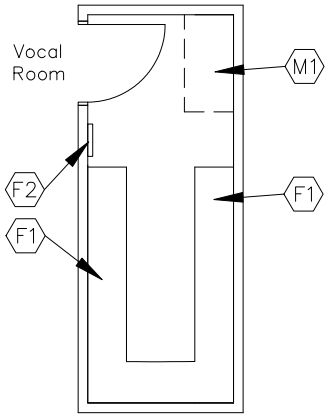
Miscellaneous:
Pencil sharpener (optional)
Gasketing on doors or sound doors
The following item is to be funded by the owner:
M1 Piano & electronic keyboard(s)

E1 Duplex receptacle with dedicated circuit for wireless devices

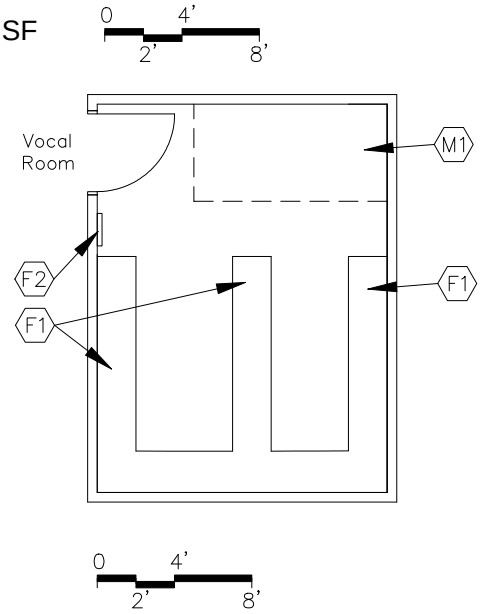
FEATURES[1]:		Spec. Ref.#
Fixed Items:		
F1	5'-6' high mirror mounted 12" above floor	088300
F2	16'-32' combination marker board, tack board, tackable wall surface	101100
F3	Reserved	
F4	Pencil sharpener support (optional)	062000
F5	11'-18' combination base, wall and tall cabinets	123550
F6	Projection screen (optional)	115213
F7	Technology support casework	123550
F8	Stereo cabinet (optional)	123550
F9	Tall wardrobe (optional)	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
	Emergency lighting per code	265100
	Means of egress lighting per code	265100
	Telecommunications Grounding	270526/260526
Communications:		
T1	2 ***projector*** video ports	271543
T2	1 voice port and phone	271513/273123
T3	1 data port	271513
T4	***Wireless access point cable above ceiling***	271513
	Clock	275313
	High school sound system	275126
	Central sound system	275123
T5	***Ultra-short throw interactive*** projector	274119
T6	***Wireless access point (WAP) as determined by Design – refer to Note 3***	***272133***
T7	***Classroom technology center video port***	***271543, 274116, 274119, 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.

150 SF



300 SF



CAPACITY:	N/A
SIZE:	150-400 SF
ANCILLARY SPACES:	Vocal Room H-MU-6

PROGRAM ACTIVITIES:

- Secure storage of choir costumes, tuxedos, and risers

SPATIAL RELATIONSHIPS:

- Adjacent to vocal room

ENVIRONMENTAL CONSIDERATIONS:
N/A

NOTES:

VOCAL STORAGE
H-MU-7

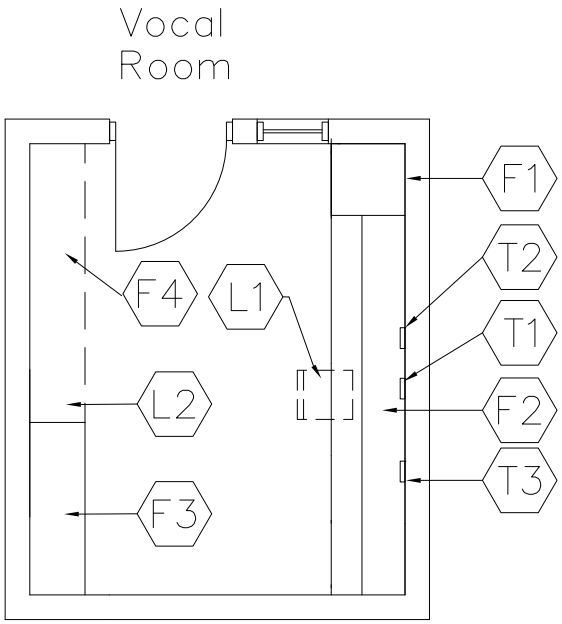
FINISHES[1]:	Spec. Ref.#
Flooring:	
Linoleum, rubber***, ET, or sheet vinyl***	096500 ***096516***
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:
N/A

FEATURES:	Spec. Ref.#
Fixed Items[2]:	
F1 20'-40' of high robe storage cabinets	123550
F2 20" x 60" mirror (optional)	102813
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
To be determined by Design Professional	
Supplemental heating as required	Div. 23
Electrical:	
Fluorescent lighting:	265100
Illumination level: See Table 8600-***5***	
Single level switching	262726
1 duplex receptacle	262726
Communications:	
N/A	
Electronic Safety and Security:	
N/A	
Miscellaneous:	
M1 Space for storage of portable risers	

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: 1 - 3 persons
SIZE: 120 SF
ANCILLARY SPACES:

PROGRAM ACTIVITIES:

- Area for the choir director to do planning, scheduling, grading, and conferencing

SPATIAL RELATIONSHIPS:

- Adjacent to instrumental room
- Adjacent to ensemble and practice rooms

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.

VOCAL MUSIC LIBRARY
H-MU-8

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

LOOSE FURNISHINGS:
L1 Chair
L2 Sheet music storage
Wastebasket

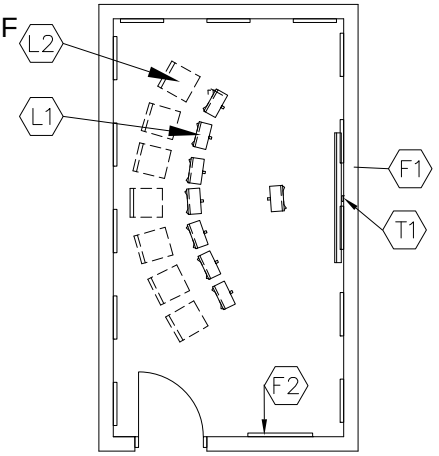
FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Tall wardrobe	123550
F2 Work surface with file drawers	123550
F3 2'-4' tall storage cabinet	123550
F4 Shelving or	123550
mobile storage shelving	105626
F5 4' of tack board (optional)	101100
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
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 8600-5	
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
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

NOTES:

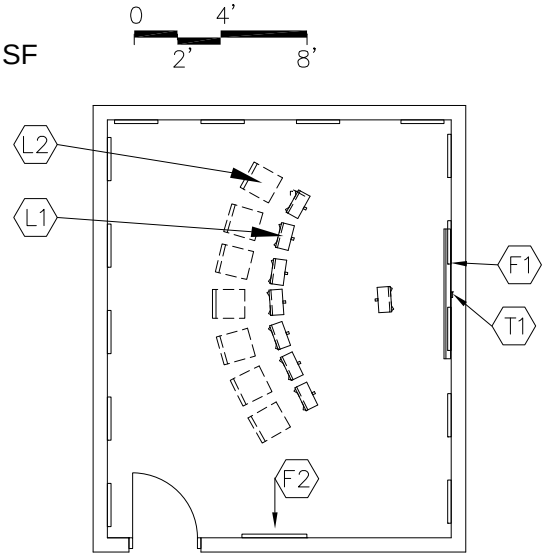
1. Finishes/Features: Refer to Chapter 9 for specification references.

ENSEMBLE ROOM
H-MU-9

200 SF



300 SF



CAPACITY: 5 - 7 students
SIZE: 200 - 400 SF

PROGRAM ACTIVITIES:
- Small group practice

SPATIAL RELATIONSHIPS:
- Near practice room
- Close proximity to vocal and instrumental rooms
- Close proximity to vocal, instrument and orchestra storage rooms

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

NOTES:

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

ENSEMBLE ROOM
H-MU-9

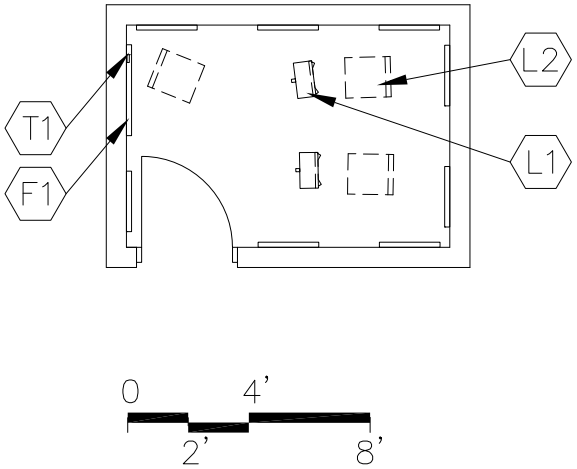
FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet, carpet tile	096816
Option: Linoleum, rubber, ET, or sheet vinyl	096813 ***096516*** ***096500***
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical absorptive 25%, reflective 25%, diffusive 50%	095113
Walls:	
Painted concrete masonry units	042000/099100
Acoustical wall treatment (varies with geometry of room)	098000

LOOSE FURNISHINGS:
L1 Music stands
L2 Music chairs

FEATURES:	Spec. Ref.#
Fixed Items:	
F1 4'-6' of marker board (optional)	101100
F2 4' of tack 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:	
Fluorescent lighting:	265100
Illumination level: See Table 8600-***5***	
Single level switching	262726
3 duplex receptacles	262726
Communications:	
Clock	275313
Central sound system	275123
T1 1 data port	271513
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
Provide 4' door	
Gasketing on doors or sound doors	

NOTES:

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



CAPACITY: 1 - 2 students
SIZE: 80 SF

PROGRAM ACTIVITIES:
- Individual and small group practice
- Private lessons

SPATIAL RELATIONSHIPS:
- Near ensemble room
- Close proximity to vocal and instrumental rooms
- Close proximity to vocal, instrument and orchestra storage rooms

ENVIRONMENTAL CONSIDERATIONS:
- Environmental sound control -
  wall minimum STC 60
  ceiling minimum CAC 35, NRC 0.70
- Access capability

NOTES:

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

PRACTICE ROOM
H-MU-10

FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet, carpet tile	096816
Option: Linoleum, rubber, ET or sheet vinyl	096813 ***096516*** ***096500***
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical Absorptive 25%, reflective 25%, diffusive 50%	095113
Walls:	
Painted concrete masonry units	042000/099100
Acoustical wall treatment (varies with geometry of room)	098000

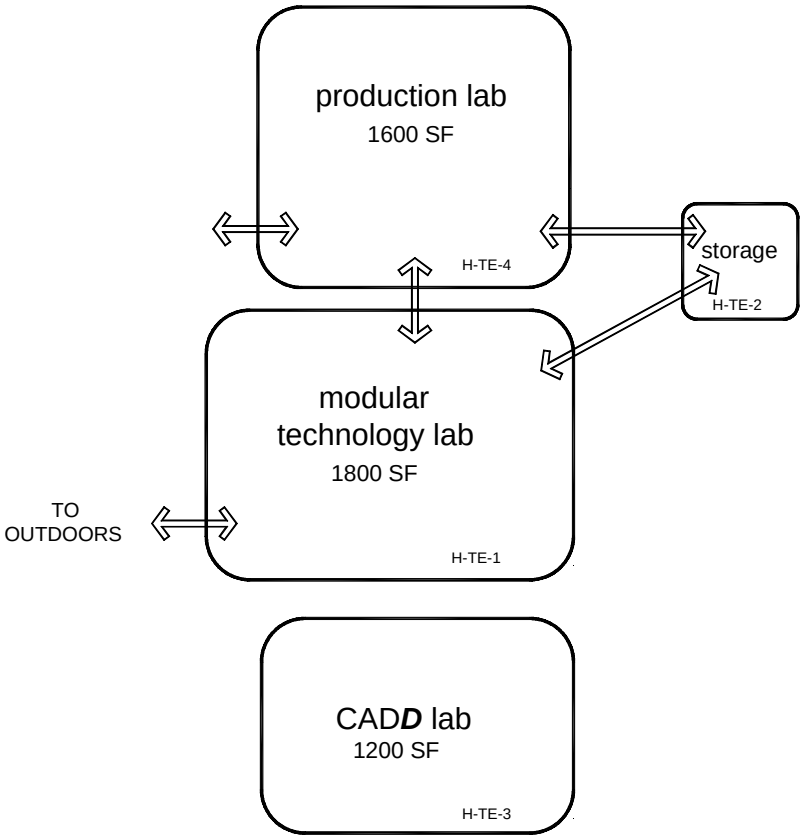
LOOSE FURNISHINGS:

L1 Music stands
L2 Music chairs

FEATURES	Spec. Ref.#
Fixed Items:	
F1 3' wide x 5' high mirror mounted 12" above finish floor (optional)	088300
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***	
Single level switching	262726
2 duplex receptacles	262726
Communications:	
Central sound system	275123
T1 1 data port	271513
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
Gasketing on doors or sound doors	

NOTES:

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



NOTE:

This is an example of how the technology education spaces in a high school could be arranged. This is meant to demonstrate the relationships between various areas of the building.

Following are the Technology Education space plates:

H-TE-1	Modular Technology Lab
H-TE-1a	Ag-Ed Lab
H-TE-2	Storage
H-TE-3	CADD Lab
H-TE-4	Production Lab

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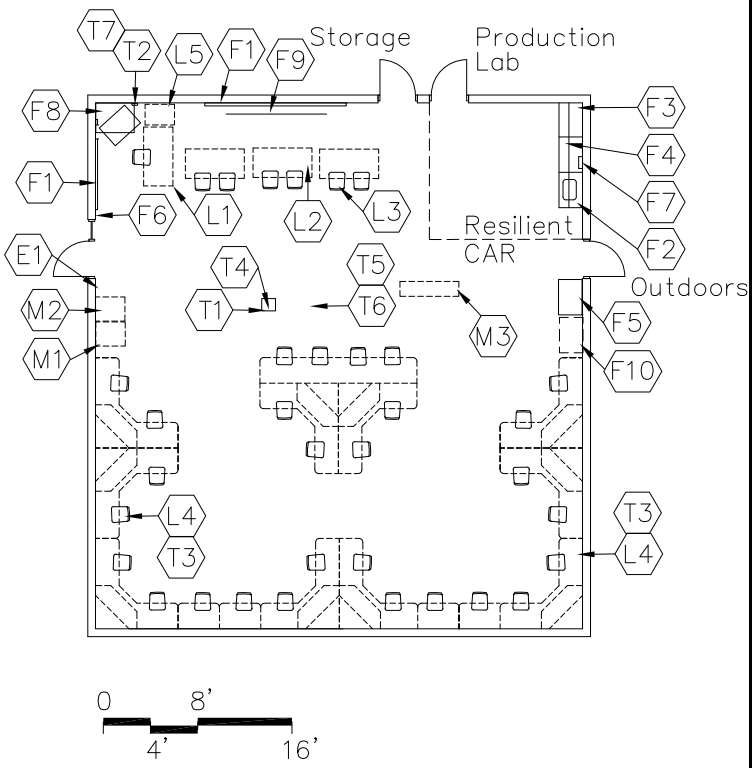


PROGRAM ACTIVITIES:

- Accommodate 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.
- Integrate this curriculum with the science and math programs.
- Introduce students to problem solving activities.
- 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
- Adjacent to production lab
- Adjacent to storage room

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY:	25 students
SIZE:	1,800 SF
ANCILLARY SPACES:	H-TE-4 Production Lab

NOTES:

1. Loose furnishings represent one of many possible arrangements.

MODULAR TECHNOLOGY LAB

H-TE-1

FINISHES[1]:	Spec. Ref.#
Flooring:	
Linoleum, rubber, ET, or sheet	096500
vinyl 4' width in front of cabinets	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 top
L3 Student stools/chairs
L4 Computer technology workstation
L5 File cabinet
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
M3 Plotter

E1 Duplex receptacle with dedicated circuit for wireless devices

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 12'-26' combination marker board tack board, tackable wall surface	101100
F2 3' sink base cabinet	123550
F3 About 9' of wall cabinets	123550
F4 About 6' of base cabinet with heavy duty counter top	123550
F5 Tall cabinet (optional)	123550
F6 Pencil sharpener support (optional)	062000
F7 Towel dispenser	102813
F8 Tall wardrobe	123550
F9 Projection screen (optional)	115213
F10 Technology support casework	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Sink, 12" deep	224000
Plumbing connections	224000/221116/221119
HVAC:	
Supply/return air system	Div. 23
Independent temperature controls	230923
Electrical:	
Fluorescent lighting with parabolic lenses	265100
Illumination level: See Table 8600-5	
Multilevel switching	262726
4 duplex receptacles	262726
Double duplex receptacle adjacent to data and video port	262726
Emergency lighting per code	265100
Means of egress lighting per code	265100
Receptacle for printer	262726
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***
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.***

PROGRAM ACTIVITIES:

- Individual instruction in agriculture programs such as plant and animal science, soil management, natural resources and mechanical systems.
- Individual and group project work
- Equipment repair
- Small group meetings
- Lab activities related to curriculum

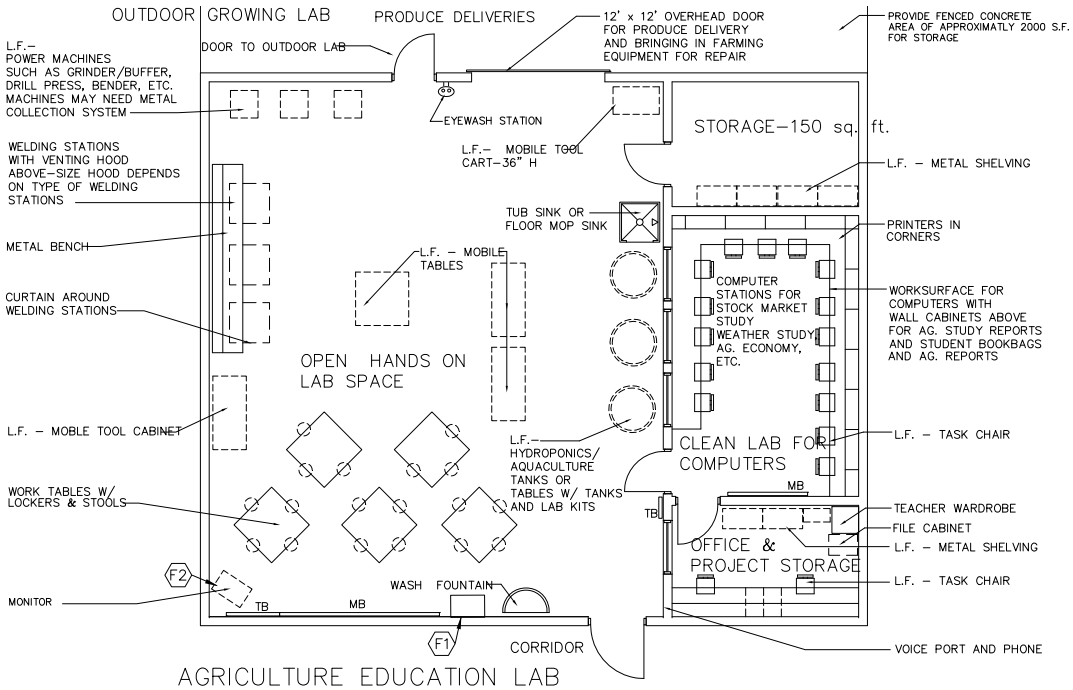
SPATIAL RELATIONSHIPS:

- Near technology education
- Near large group restrooms
- Access to driveway and parking
- Adjacent to classroom

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control-
  wall ***only*** minimum STC ***45***
  ceiling minimum CAC 35

CAPACITY:	18 students
SIZE:	1,800 SF
ANCILLARY SPACES:	H-TE-2 Storage



AGRICULTURE EDUCATION LAB

Space includes clean lab for computers,office, and open lab
Storage is an additional programmed space of 150 sq. ft.
(NOTE: Programs vary greatly from district to district and will probably continue to change and develop as the ag. industry changes.

NOTES:

1. Loose furnishings represent one of many possible arrangements.
2. This is a multi-use space for agriculture education, wood shops, metal shops, or other industrial education laboratories.
3. This space can be selected in place of modular technology lab H-TE-1, but not in addition to H-TE-1.

AG-ED LAB
H-TE-1a

FINISHES[1]:	Spec. Ref.#
Flooring:	
Sealed concrete,	033000
linoleum, rubber, ET,	096500
polished concrete finishing, or	033510
colored concrete finishing	033519
Sheet vinyl in office/storage	096516
Base:	
Resilient base	096500
Ceiling:	
Painted exposed structure	099100
Walls:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:
- Tables with heavy duty tops
- Waste receptacle
- Task chairs
- Metal shelving
- Teacher wardrobe
- File cabinet
  - Mobile tool cabinet

Electronic Safety and Security:	
Life safety devices per code	283111

Miscellaneous:
- Plan for shop equipment as necessary
- Overhead door
- Pencil sharpener (optional)

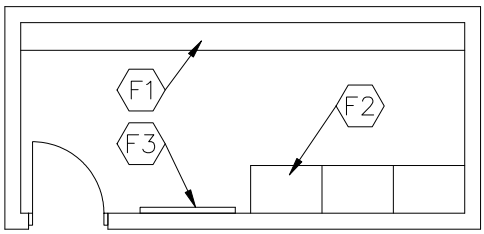
Duplex receptacle with dedicated circuit for wireless devices

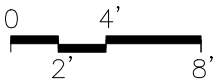
FEATURES[1]:	Spec. Ref.#
Fixed Items:	
16'-20' combination marker board, tack board, and tackable wall surface	101100
Pencil sharpener support (optional)	062000
14' Wall and base cabinets	123550
Workbenches with locker bases	123550
40' Work surface with heavy duty countertop 36" high, with knee space 2 towel dispensers	123550
F1 Tall storage cabinet	123550
F2 Technology support casework	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Wash fountain	224000
Plumbing connections	224000/221116/221119
Tub sink or floor mop sink	224000
Emergency eyewash station connection	224000
Sanitary drainage products	221316
HVAC:	
Supply/return air system	Div. 23
Independent temperature controls	230923
Localized welding station venting hood	233515
Electrical:	
High intensity discharge lighting	265100
Illumination level: See Table 8600-5	
16 duplex receptacles (42" height)	262726
Double duplex receptacle adjacent to data and video port	262726
Emergency lighting per code	265100
Means of egress lighting per code	265100
Electrical power for shop equipment	262726
Communications:	
1 ***projector*** video port and video display device	271543/274119
1 voice port and phone	271513/273123
Wireless access point cable above ceiling	271513
Clock	275313
Central sound system	275123
Sound reinforcement system	275127
Wireless access point (WAP) as determined by Design – refer to Note 2	***272133***
Classroom technology center video port	***271543, 274116, 274119, 275127***

NOTES:

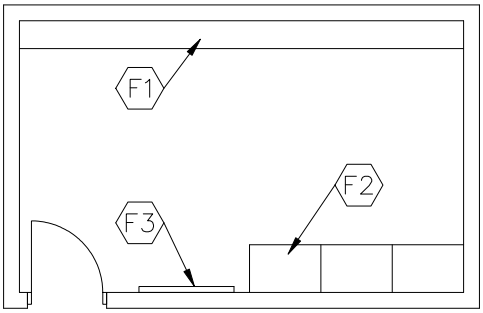
1. Finishes/Features: Refer to Chapter 9 for specification references.
2. ***Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.***

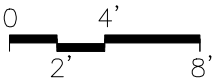
150 SF





200 SF





CAPACITY: N/A
SIZE: 150 – ***250 SF***

PROGRAM ACTIVITIES:

- This space will house equipment, instructional aids and materials use in the technology education activities.

SPATIAL RELATIONSHIPS:

- Adjacent with direct access to the modular technology lab and production lab
- Access to service drive

ENVIRONMENTAL CONSIDERATIONS:
N/A

NOTES:

STORAGE
H-TE-2

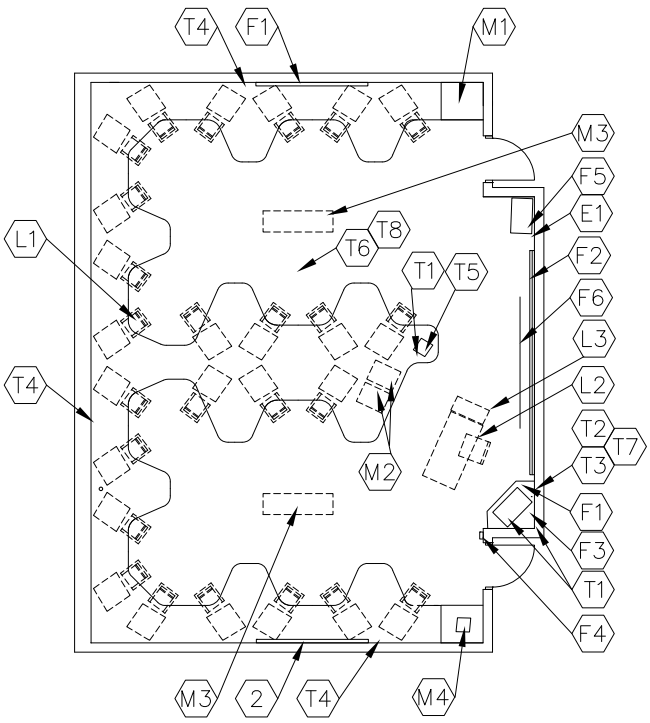
FINISHES[1]:	Spec. Ref.#
Flooring:	
Sealed concrete	033000
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted gypsum wallboard over metal studs	092116/099100

LOOSE FURNISHINGS:
N/A

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 10'-18' of open shelving	123550
depth may vary (fixed or loose)	
Option: mobile storage shelving	105626
F2 4'-8' of tall storage cabinets	123550
F3 4' of pegboard (optional)	102813
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
To be determined by Design Professional	
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.



CAPACITY: 25 students
SIZE: 1,200 SF

PROGRAM ACTIVITIES:

- Group instruction on computer drafting and design
- Exploration of design concepts, technical drawing, CADD, geometric dimensioning, and facilities design

SPATIAL RELATIONSHIPS:

- Near modular technology lab

ENVIRONMENTAL CONSIDERATIONS:

- 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.

CADD LAB
H-TE-3

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 Computer workstation furniture
L2 Teacher desk and chair
L3 File cabinet
Wastebasket

L1 could be fixed casework.

Electronic Safety and Security:	
Life safety devices per code	283111

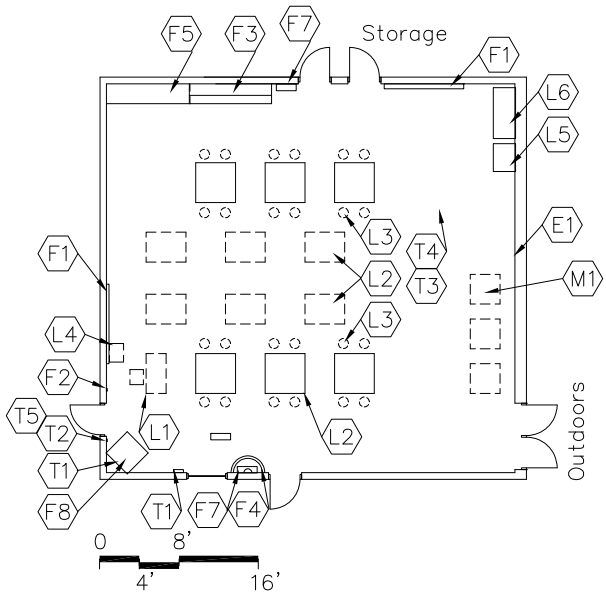
Miscellaneous:
Interior windows to production lab (optional)
Pencil sharpener (optional)

E1 Duplex receptacle with dedicated circuit for wireless devices

The following items are to be funded by the school district:
M1 Classroom area network file server
M2 Printers
M3 Plotters
M4 Scanner

FEATURES[1]:		Spec. Ref.#
Fixed Items:		
F1	Tall wardrobe with file drawers	123550
F2	16-32' combination marker board, tack board, tackable wall surface	101100
F3	Technology support casework	123550
F4	Pencil sharpener support (optional)	062000
F5	4'-8' base and wall cabinets for printers and storage of paper, cartridges, etc.	123550
F6	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 parabolic lenses	265100
	Illumination level: See Table 8600-5	
	Multilevel switching	262726
	6 duplex receptacles	262726
	Double duplex receptacles adjacent to each data and video port	262726
	Emergency lighting per code	265100
	Means of egress lighting per code	265100
	Receptacle for printer/plotter	262726
Communications:		
T1	2 ***projector*** video ports	271543
T2	1 voice port and phone	271513/273123
T3	1 data port near teacher workstation	271513
T4	Classroom area network (25 data ports minimum)	271513
	Clock	275313
	Central sound system	275123
T5	***Ultra-short throw interactive*** projector	274119
T6	***Wireless access point (WAP) as determined by Design – refer to Note 3***	***272133***
T7	***Classroom technology center video port***	***271543, 274116, 274119, 275127***
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.***



CAPACITY: 25 students
SIZE: 1,600 SF
ANCILLARY SPACES: Storage, H-TE-2
Modular Technology Lab, H-TE-1

PROGRAM ACTIVITIES:

- Provides 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
- Adjacent to modular technology lab
- Adjacent to storage room

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

1. Loose furnishings represent one of many possible arrangements.
2. This is a multi-use space for vocational agriculture, wood shops, metal shops, or other industrial education laboratories.

PRODUCTION LAB

H-TE-4

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

LOOSE FURNISHINGS:

L1 Teacher desk/computer support and chair
L2 Tables with heavy duty tops & lockers below
L3 Stools
L4 File cabinet
L5 Mobile tool cabinet
L6 Material storage racks
Waste receptacle

Electronic Safety and Security:	
Life safety devices per code	283111

Miscellaneous:

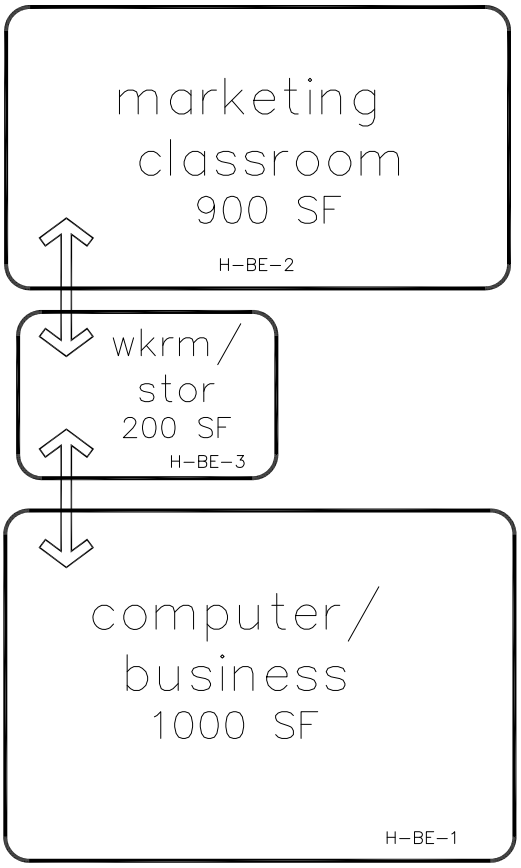
Pencil sharpener (optional)
M1 Shop equipment with localized dust collection as necessary.

E1 Duplex receptacle with dedicated circuit for wireless devices

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 14'-24' combination marker board, tack board, tackable wall surface	101100
F2 Pencil sharpener support (optional)	062000
F3 12'of wall and 12'of base cabinets	123550
F4 Wash fountains	
F5 6'-12' of work surface with heavy duty countertop 36" high, with knee space	123550
F6 Reserved	
F7 2 towel dispensers	102813
F8 Technology support casework	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 controls	230923
Localized dust collection as necessary	Div. 23
Electrical:	
High intensity discharge lighting	265100
Illumination level: See Table 8600-5	
8 duplex receptacles	262726
Double duplex receptacle adjacent to data and video port	262726
Emergency lighting per code	265100
Means of egress lighting per code	265100
Electrical power for shop equipment	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
Sound reinforcement system	275127
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. 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:

This is an example of how the business education spaces in a high school could be arranged. This is meant only to demonstrate the relationships between various areas of the building.

Following are the Business Education space plates:

H-BE-1	Computer and Business Classroom
H-BE-2	Marketing Classroom
H-BE-3	Workroom/Storage

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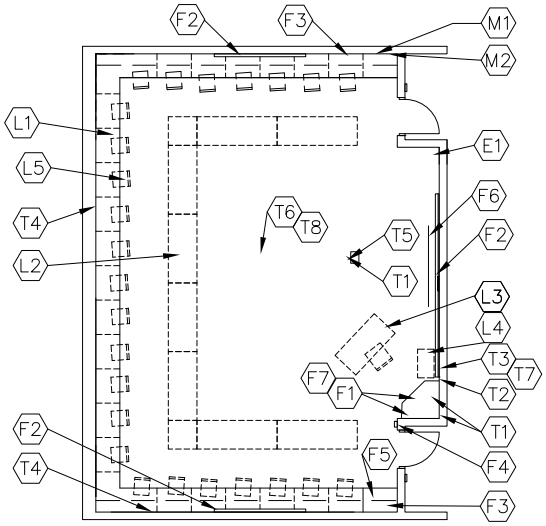
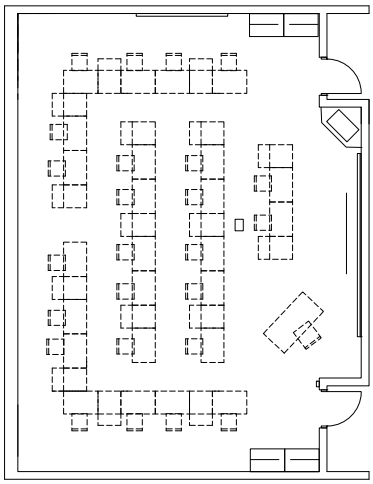
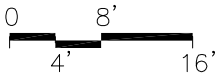
COMPUTER AND BUSINESS CLASSROOM
H-BE-1



PERIMETER WORKSTATIONS LAYOUT



FREE STANDING WORKSTATIONS LAYOUT



CAPACITY: 25 students
SIZE: 1000 SF

PROGRAM ACTIVITIES:
- Instruction in business and computer curricula
- Group instruction
- Multimedia presentation
- Group discussion
- Cooperative learning

SPATIAL RELATIONSHIPS:
- Close proximity to marketing classroom
- Proximity to large group restrooms
- Adjacent to workroom/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.

COMPUTER AND BUSINESS CLASSROOM
H-BE-1

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

LOOSE FURNISHINGS:
L1 Computer workstation furniture
L2 Work tables
L3 Teacher desk/computer support and chair
L4 File cabinet
L5 Appropriate ergonomic chairs
Wastebasket

L1 could be fixed casework.

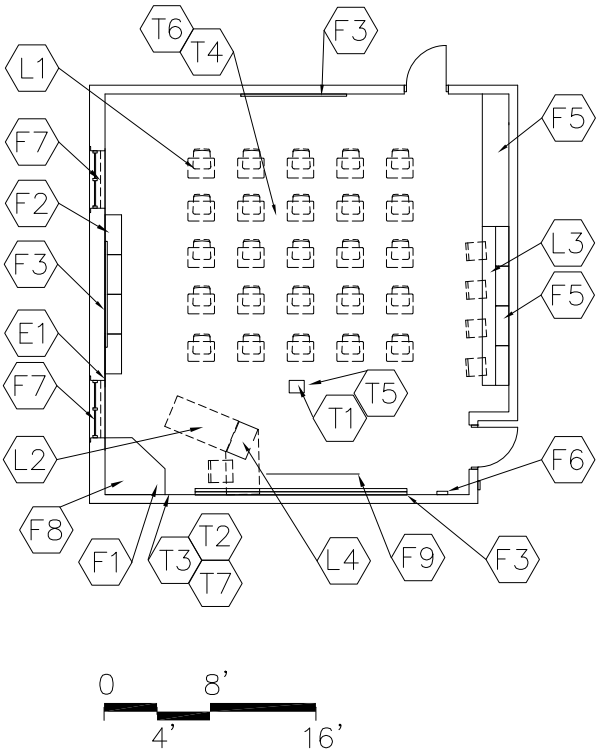
Electronic Safety and Security:	
Life safety devices per code	283111

Miscellaneous:
Pencil sharpener (optional)
The following items are to be funded by the school district:
M1 Classroom Area Network file server (optional)
M2 Printer

E1 Duplex receptacle with dedicated circuit for wireless devices

FEATURES[1]:		Spec. Ref.#
Fixed Items:		
F1	Tall wardrobe with file drawers	123550
F2	16'-32' combination marker board, tack board, tackable wall surface	101100
F3	Wall cabinets for student book storage and program manuals	123550
F4	Pencil sharpener support (optional)	062000
F5	Base cabinets	123550
F6	Projection screen (optional)	115213
F7	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 with parabolic 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
	Emergency lighting per code	265100
	Means of egress lighting per code	265100
Communications:		
T1	2 ***projector*** video ports	271543
T2	1 voice port and phone	271513/273123
T3	1 data port near teacher workstation	271513
T4	Classroom area network (25 data ports minimum)	271513
	Clock	275313
	Central sound system	275123
	Sound reinforcement system	275127
T5	***Ultra-short throw interactive*** projector	274119
T6	***Wireless access point (WAP) as determined by Design – refer to Note 2***	***272133***
T7	***Classroom technology center video port***	***271543, 274116, 274119, 275127***
T8	***Wireless access point cable above ceiling***	***271513***

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: 25 students
SIZE: 900 SF

PROGRAM ACTIVITIES:
- Instruction in marketing curriculum
- Group discussion
- Simulations
- Cooperative learning
- Multimedia presentations

SPATIAL RELATIONSHIPS:
- Close proximity to computer and business classrooms
- Adjacent to workroom/storage

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.

MARKETING CLASSROOM
H-BE-2

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

LOOSE FURNISHINGS:
- L1 Student desks and chairs
- L2 Teacher desk/computer support and chair
- L3 Computer workstation furniture
- L4 Desk height file cabinet
  Wastebasket

Electronic Safety and Security:	
Life safety devices per code	283111

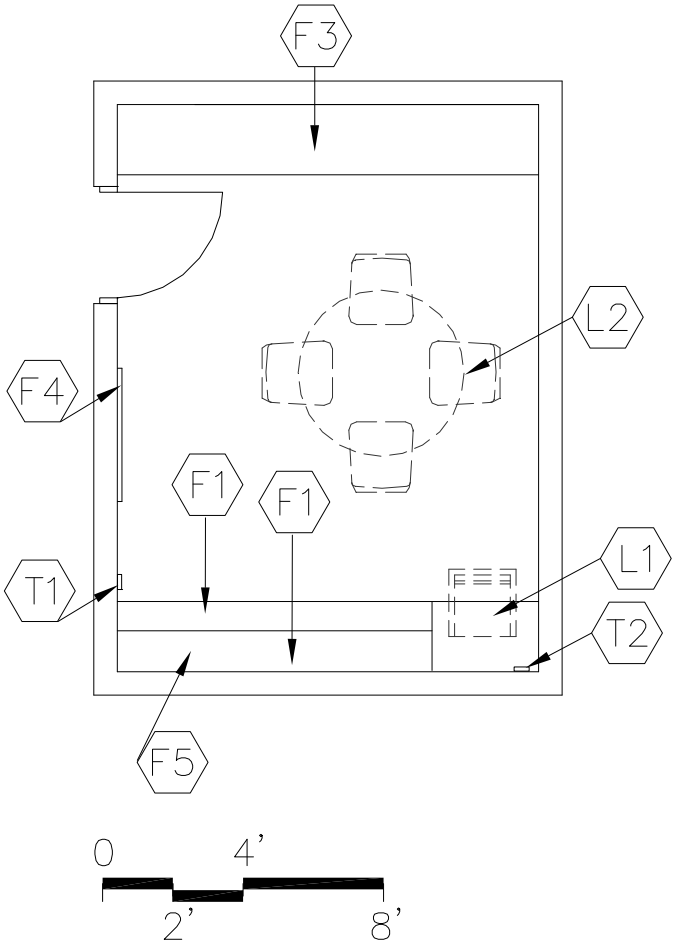
Miscellaneous:
Pencil sharpener (optional)

E1 Duplex receptacle with dedicated circuit for wireless devices

FEATURES[1]:		Spec. Ref.#
Fixed Items:		
F1	Tall wardrobe with file drawers	123550
F2	6'-10' of bookcases	123550
F3	18'-32' combination marker board, tack board, tackable wall surface	101100
F4	Reserved	
F5	12'-20' combination base and wall cabinets	123550
F6	Pencil sharpener support (optional)	062000
F7	Windows with integral blinds	085113
F8	Technology support casework	123550
F9	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
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.***

200 SF



CAPACITY: 2 - 4 teachers
SIZE: 100 - 400 SF

PROGRAM ACTIVITIES:

- Preparation and storage of instructional materials and equipment

SPATIAL RELATIONSHIPS:

- Adjacent to business and marketing classrooms

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.

WORKROOM/STORAGE
H-BE-3

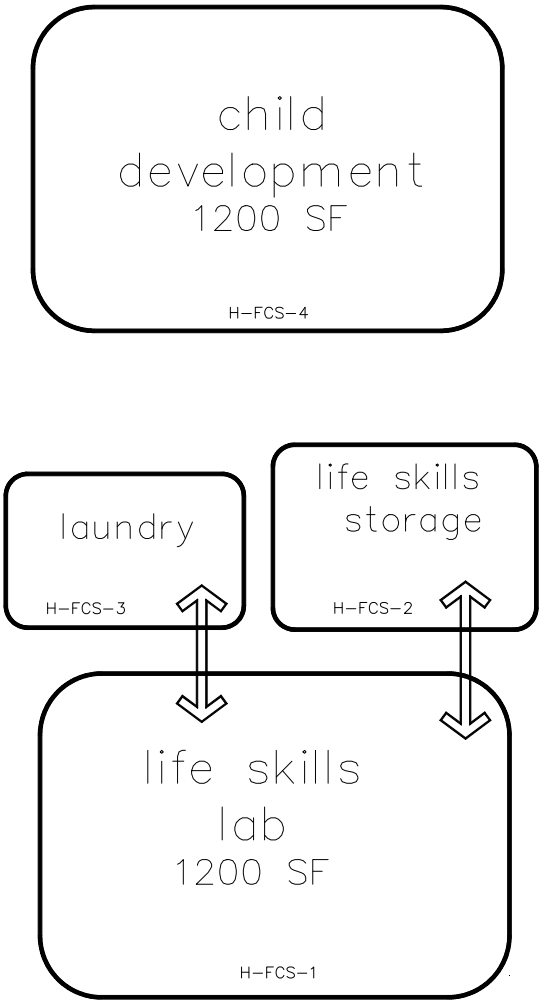
FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet, carpet tile, ET, linoleum,	096816
Or sheet vinyl	096500
	096516
	096813
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

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

FEATURES[1]:		Spec. Ref.#
Fixed Items[2]:		
F1	***12'-18' combination base and wall cabinets***	123550
F2	***Reserved***	
F3	12'-24' of tall storage cabinets or bookshelves	123550
F4	4' of tack board or ***marker board*****,** tackable wall surface	101100
F5	Work surface (optional)	123550
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 each data port	262726
	Duplex receptacle for office-type equipment	262726
Communications:		
T1	1 voice port and phone	271513/***273123***
T2	1 data port	271513
	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. Ranges shown indicate quantities for the smallest and largest possible room size.



NOTE:

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

Following are the Family and Consumer Science space plates:

H-FCS-1 Life Skills Lab
H-FCS-2 Life Skills Storage
H-FCS-3 Laundry
H-FCS-4 Child Development

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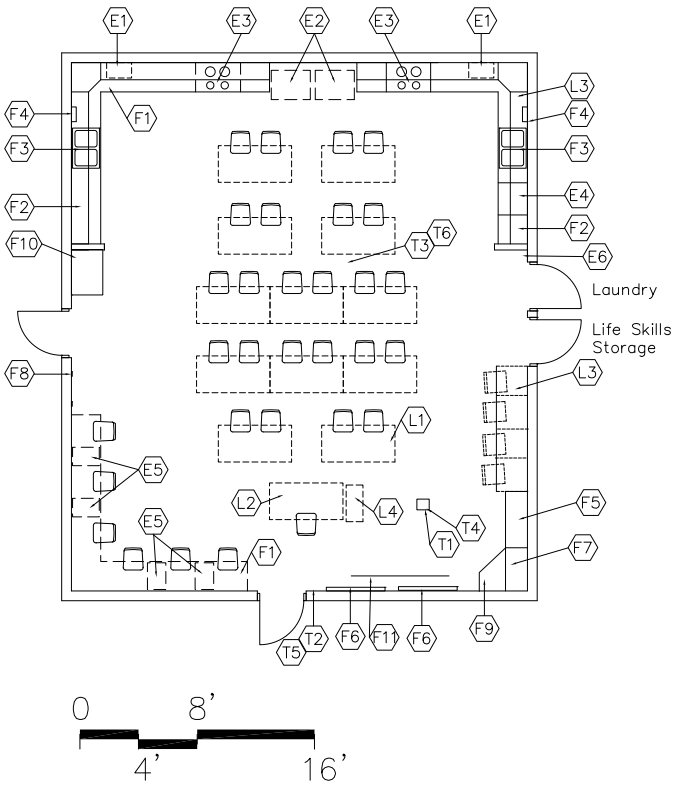


CAPACITY:	24 students
SIZE:	1,200 SF
ANCILLARY SPACES:	Life Skills Storage H-FCS-2
	Laundry, H-FCS-3

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 which will be delivered in individual, small group, and total group methods.

SPATIAL RELATIONSHIPS:

- Grouped with other support service programs
- Adjacent to storage
- Adjacent to laundry

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

LIFE SKILLS LAB
H-FCS-1

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

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

EQUIPMENT:
E1 Microwaves
E2 Refrigerators
E3 Range and oven
E4 Dishwasher
E5 Sewing machines

Electronic Safety and Security:
Life safety devices per code 283111

Miscellaneous:
Pencil sharpener (optional)

E6 Duplex receptacle with dedicated circuit for wireless devices

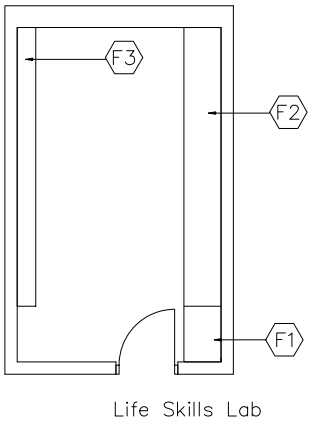
Communications (cont'd):
T5 Classroom technology center video port 271543, 274116, 274119, 275127
T6 Wireless access point (WAP) as determined by Design – refer to Note 3 272133

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Base cabinets	123550
F2 Wall cabinets	123550
F3 Double bowl sink base cabinet	123550
F4 2 towel dispensers	102813
F5 4'-8' of bookcases (optional)	123550
F6 16'-32' combination marker board, tack board, tackable wall surface	101100
F7 Technology support casework	123550
F8 Pencil sharpener support (optional)	062000
F9 Tall wardrobe with file drawers	123550
F10 3'-9' of tall storage cabinets (could have trays)	123550
F11 Projection screen (optional)	115213
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Double sinks	224000
Plumbing connections	224000/221116/22119
Garbage disposals (optional)	
HVAC:	
Supply/return air system	Div. 23
Manually operated exhaust air system	Div. 23
Independent temperature controls	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
Receptacles for refrigerators, microwaves, ranges, dishwashers, and sewing machines	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 ***Wireless access point cable above ceiling***	271513
Clock	275313
Central sound system	275123
Sound reinforcement system	275127
T4 ***Ultra-short throw interactive*** projector	274119

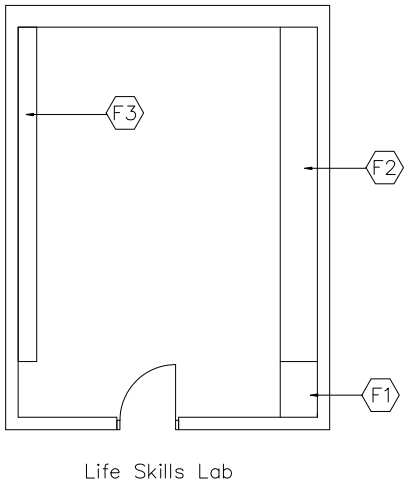
NOTES:
1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Technology components may be placed in a separate small cabinet, or integrated in the other casework in the room.
3. ***Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.***

LIFE SKILLS STORAGE
H-FCS-2

200 SF



350 SF



CAPACITY:	N/A
SIZE:	200 - 400 SF
ANCILLARY SPACES:	H-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:

- Resilient floor covering

NOTES:

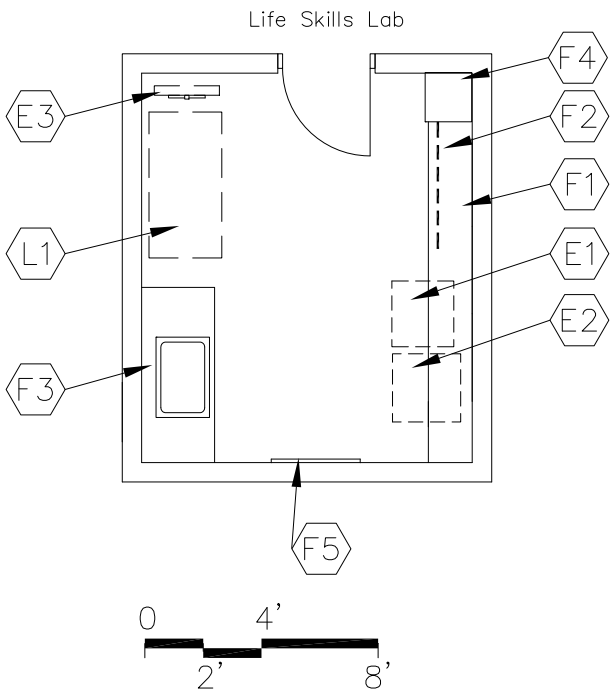
LIFE SKILLS STORAGE
H-FCS-2

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

FEATURES[1]:	Spec. Ref.#
Fixed Items[2]:	
F1 3' of tall wardrobe (optional)	123550
F2 10'–18' of tall cabinets or wall & base cabinets	123550
F3 10'–18' of open cabinets	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:	
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. Ranges shown indicate quantities for the smallest and largest possible room size.



PROGRAM ACTIVITIES:
- Laundry to be used by the family and consumer science department

SPATIAL RELATIONSHIPS:
- Adjacent to life skills lab

ENVIRONMENTAL CONSIDERATIONS:
- Environmental sound control –
  wall minimum STC 45
  ceiling minimum CAC 35

CAPACITY:	N/A
SIZE:	150 SF
ANCILLARY SPACES:	Life Skills lab H-FCS-1

NOTES:

LAUNDRY
H-FCS-3

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

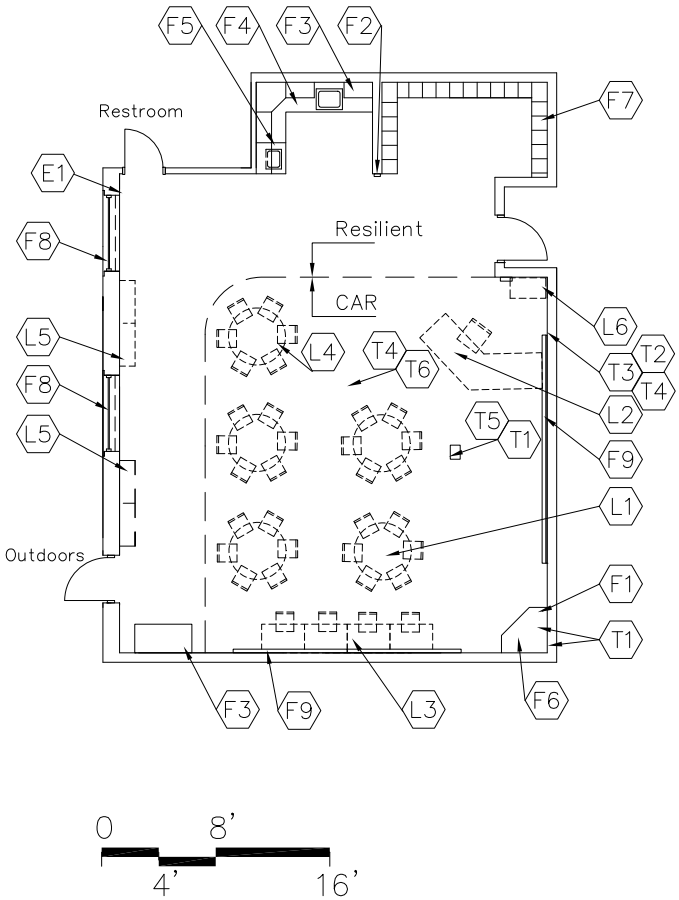
LOOSE FURNISHINGS:
L1 Folding table
Wastebasket

EQUIPMENT:
E1 Washer
E2 Electric dryer
E3 Ironing board

FEATURES:		Spec. Ref.#
Fixed Items[1]:		
F1	14' of wall cabinets	123550
F2	6' hanging bar/drying rack (optional)	123550
F3	6' sink base cabinet	123550
F4	3' tall cabinet (optional)	123550
F5	5' high mirror (optional)	102813
Fire Suppression:		
Fire suppression system		211000
Plumbing:		
Sink, 12" deep		224000
Plumbing connections		224000/221116/221119
HVAC:		
Supplemental heat as required		Div. 23
Exhaust air system		Div. 23
Exhaust for dryer		Div. 23
Electrical:		
Fluorescent lighting:		265100
Illumination level: See Table 8600-***5***		
Single level switching		262726
2 duplex receptacles		262726
Receptacle for electric dryer and washer		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.



CAPACITY: 25 students
SIZE: 1,200 SF
ANCILLARY SPACES:
Individual Restroom, H-AC-7

PROGRAM ACTIVITIES:
- Training for early childhood careers
- Training for parenting
- Preschool and toddler care

SPATIAL RELATIONSHIPS:
- Classrooms should have direct access to outdoors
- Near vehicle drop-off/pick-up area
- Adjacent to individual restroom

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

NOTES:

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

CHILD DEVELOPMENT

H-FCS-4

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

LOOSE FURNISHINGS:

- L1 Student desks and chairs
- L2 Teacher desk/computer support and chair
- L3 Computer workstation furniture
- L4 Tables and chairs for preschool children
- L5 Low mobile storage units
- L6 File cabinet
- Wastebasket

Electronic Safety and Security:	
Life safety devices per code	283111

Miscellaneous:

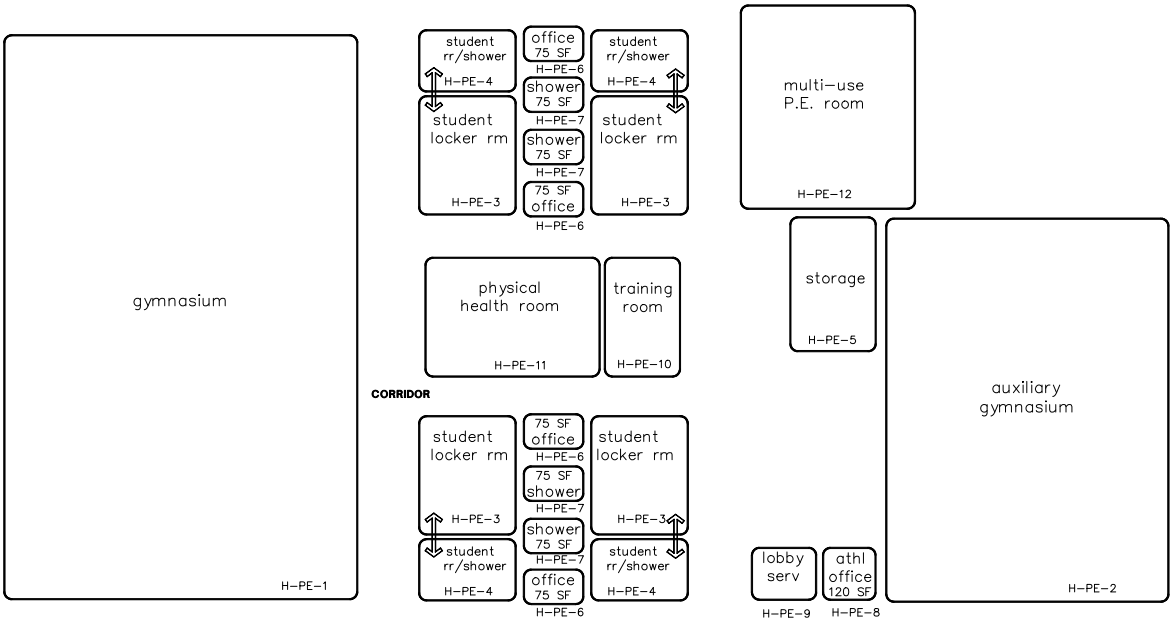
Pencil sharpener (optional)

E1 Duplex receptacle with dedicated circuit for wireless devices

FEATURES:		Spec. Ref.#
Fixed Items:		
F1	Tall wardrobe with file drawers	123550
F2	Pencil sharpener support (optional)	062000
F3	16'-20' combination wall and tall cabinets	123550
F4	3' of sink base cabinet, 36" high	123550
F5	3' of sink base cabinet, (ADA compliant)	123550
F6	Technology support casework	123550
F7	Open casework - coats	123550
F8	Windows with integral blinds	085113
F9	16'-32' of marker board, tack board, or tackable wall surface	101100
Fire Suppression:		
	Fire suppression system	211000
Plumbing:		
	2 sinks (1 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
	6 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
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 physical education spaces in a high school could be arranged. This is meant only to demonstrate the relationships between various areas of the building.

Following are the Physical Education space plates:

H-PE-1	Gymnasium
H-PE-2	Auxiliary Gymnasium
H-PE-3	Student Locker Room
H-PE-4	Student Restroom/Shower
H-PE-5	Physical Education Storage
H-PE-6	P.E./Athletic Office
H-PE-7	Staff Shower
H-PE-8	Athletic Director's Office
H-PE-9	Lobby Services
H-PE-10	Training Room
H-PE-11	Physical Health Classroom
H-PE-12	Multi-use P.E. Room

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 on page 6110-3 illustrates the maximum gymnasium size for each of the student enrollment examples found in the Program of Requirements (POR). For example, a school with 1,200 students would have approximately 102 staff members indicating a total number of persons in the facility of 1,302. The maximum size of the gymnasium would be 12,400 sf. That value, 12,400 sf., would be inserted into the POR for the gym size.

Additional student enrollment examples (600-700, 900-1,100, 1,300-1,500, 1,700-2,300) have been added to assist in planning and design of various sized gymnasiums. These examples are bolded.

SEATING

Regarding seating/bleachers, in high 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.

Additional student enrollment examples (600-700, 900-1,100, 1,300-1,500, 1,700-2,300) have been added to assist in planning and design of various seat layouts. These examples are bolded in the table below.

FINAL LAYOUT

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

High School Gymnasium Design Guidelines

STN ENRL	Staff	Total Occup	Gym SF	Court Size	Approx. # Seats
450	41	491	***9,300***	50 x 84	517
600	***51***	***651***	***9,800***	***50 x 84***	***645***
700	***60***	***760***	***10,200***	***50 x 84***	***748***
800	69	869	***10,700***	50 x 84	876
900	***77***	***977***	***11,100***	***50 x 84***	***978***
1,000	***85***	***1,085***	***11,500***	***50 x 84***	***1,080***
1,100	***94***	***1,194***	***11,900***	***50 x 84***	***1,183***
1,200	102	1,302	***12,400***	50 x 84	1,311
1,300	***108***	***1,408***	***12,800***	***50 x 84***	***1,413***
1,400	***116***	***1,516***	***13,200***	***50 x 84***	***1,516***
1,500	***125***	***1,625***	***13,600***	***50 x 84***	***1,618***
1,600	133	1,733	***14,000***	50 x 84	1,721
1,700	***139***	***1,839***	***14,500***	***50 x 84***	***1,849***
1,800	***148***	***1,948***	***14,900***	***50 x 84***	***1,951***
1,900	***156***	***2,056***	***15,300***	***50 x 84***	***2,053***
2,000	***164***	***2,164***	***15,700***	***50 x 84***	***2,156***
2,100	***172***	***2,272***	***16,100***	***50 x 84***	***2,258***
2,200	***180***	***2,380***	***16,600***	***50 x 84***	***2,386***
2,300	***189***	***2,489***	***17,000***	***50 x 84***	***2,489***
2,400	197	2,597	***17,400***	50 x 84	2,591

Note: Aux. Gym bleachers are a district expense. 2011

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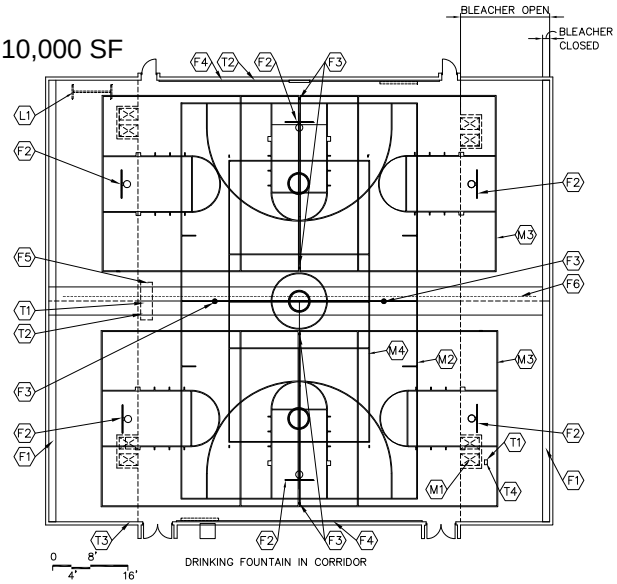
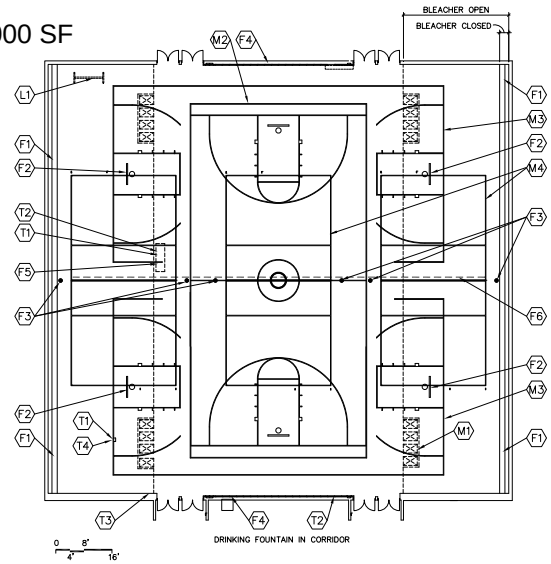
10,000 SF



Please see page 6110-***7*** for an enlargement of this drawing.

16,000 SF



Please see page 6110-8 for an enlargement of this drawing.

CAPACITY: 60 – 75 Students
SIZE: 9,300 – 17,400 SF
ANCILLARY SPACES:
Physical Education Storage
H-PE-5

PROGRAM ACTIVITIES:
- Physical education classes and interscholastic athletic competition
- Student assemblies
- Community use

SPATIAL RELATIONSHIPS:
- Near locker rooms
- Adjacent to outdoors
- Near student dining

ENVIRONMENTAL CONSIDERATIONS:
- Environmental sound control - walls minimum STC 60
- Acoustical requirements and other factors as determined by final configuration of the space
- Clear, ***fixed*** height of ***23'*** from floor to nearest obstruction

NOTES:

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

GYMNASIUM
H-PE-1

FINISHES[1]:	Spec. Ref.#
Flooring:	
Wood	096466
Base:	
Ventilated resilient base	096466
Ceiling:	
Painted exposed structure	099100
Walls:	
Painted	099100
Sound absorption concrete masonry units on 2 walls or	042000
abuse-resistant acoustical wall treatment	098000

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

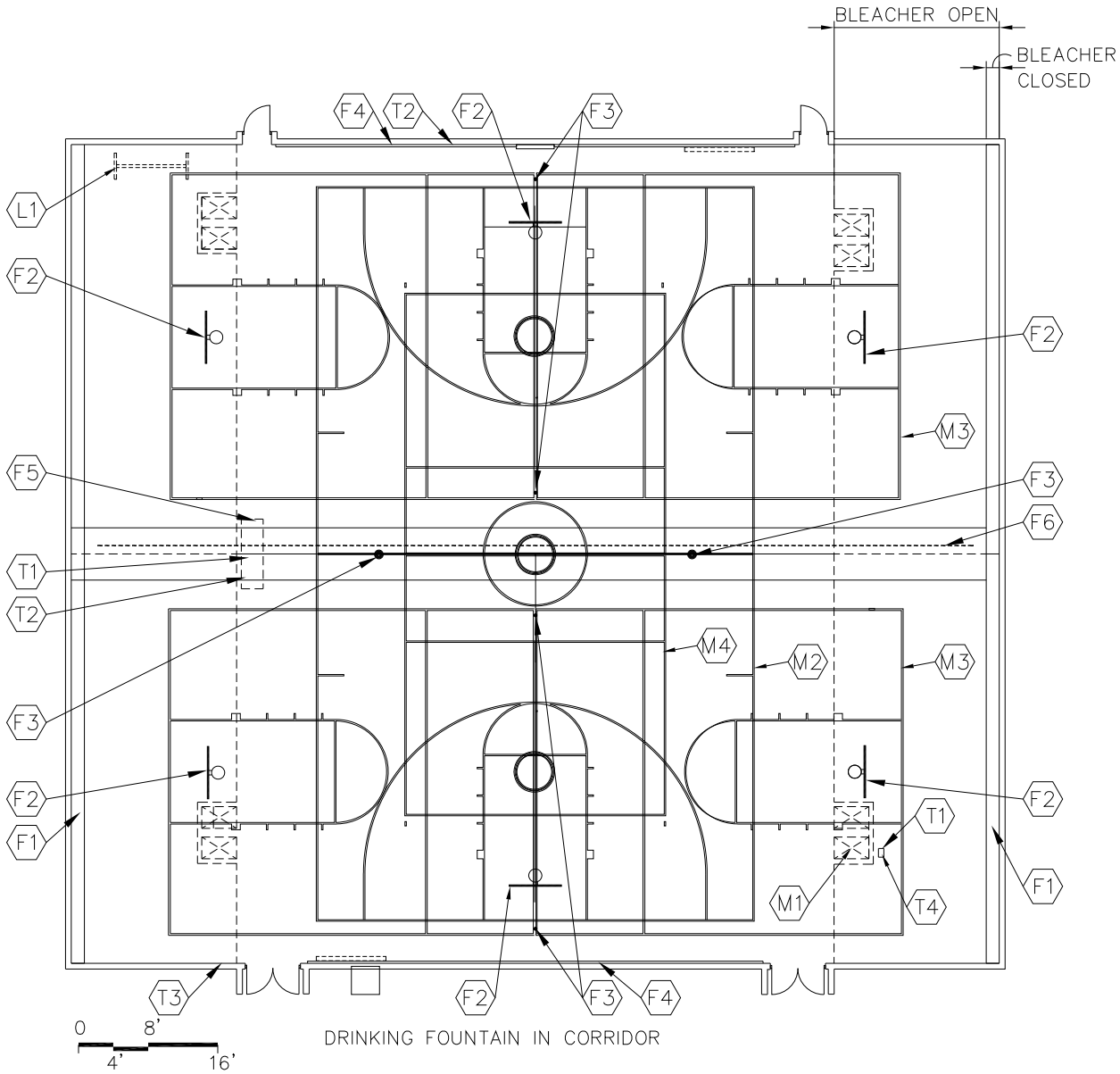
Miscellaneous:
M1 Bleacher seating (ADA accessible)
Court markings (***optional***)
M2 84' x 50' basketball court
M3 (2) cross-court basketball courts
M4 30'x60' volleyball court
M5 36' x 78' tennis courts
Provide wire guards on light fixtures and wall-mounted electrical devices

FEATURES:	Spec. Ref.#
Fixed Items:	
F1 Telescoping stands	126600
F2 6 basketball backstops, glass	116623
F3 Volleyball sleeves and standards on a cart	116623
F4 Safety wall wainscot	116623
F5 Scorer's table	126600
F6 Divider gym curtain	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:	
Fluorescent lighting Illumination level: See Table 8600-6	265100
Multi-level switching	262726
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	116643
Telecommunications Grounding	270526/260526
Communications:	
T1 2 ***projector*** video ports,1 monitor w/cart	271543/274119
T2 2 data ports	271513
T3 1 voice port	271513/273113
Clocks with wire guards	275313
Central sound system	275123
Gymnasium sound system	275124
T4 Overhead projector	274119
Electronic Safety and Security:	
Life safety devices per code	283111

NOTES:

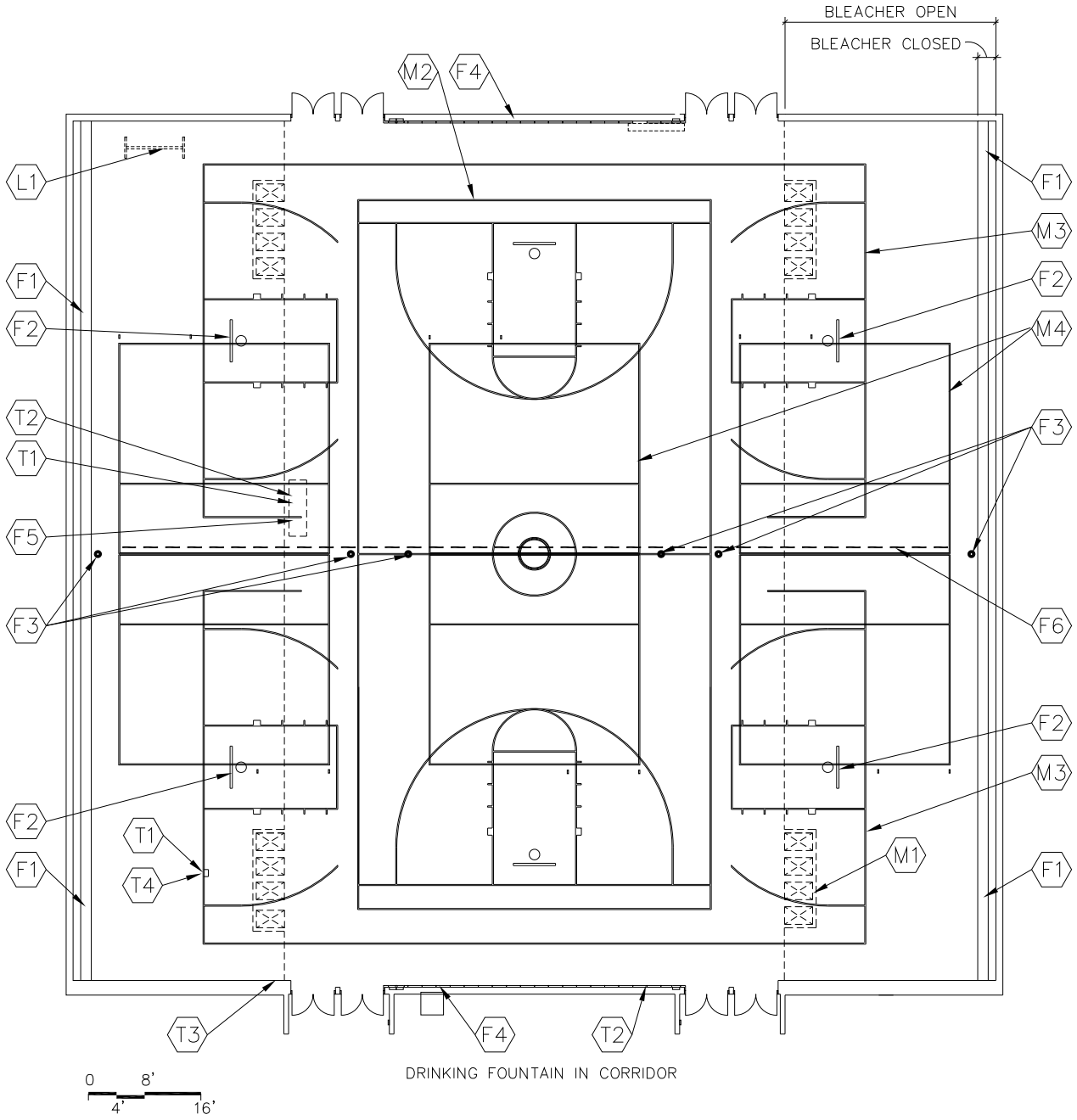
1. Finishes/Features: Refer to Chapter 9 for specification references.

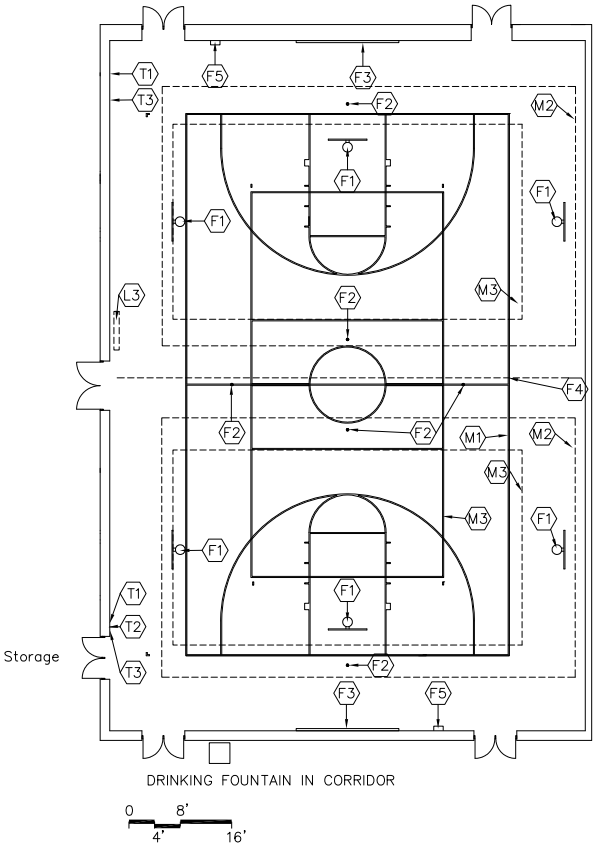
10,000 SF


BLEACHER OPEN
BLEACHER CLOSED
F4
T2
F2
F3
L1
F2
F2
M3
F5
F3
F6
T1
T2
M4
M2
M3
F3
F2
F2
F1
T1
F1
M1
T4
T3
F2
F3
F4
0
8'
4'
16'
DRINKING FOUNTAIN IN CORRIDOR

GYMNASIUM
H-PE-1

16,000 SF





Please see page 6110-11 for an enlargement of this diagram.

CAPACITY: 25 - 60 students
SIZE: 7,000 SF
ANCILLARY SPACES:

PROGRAM ACTIVITIES:
- Physical education classes, interscholastic athletic competition and practice during non-school hours
- Community use

SPATIAL RELATIONSHIPS:
- Near P.E./athletic offices
- Convenient access to outside
- Near student locker rooms

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 two of many possible arrangements.

AUXILIARY GYMNASIUM

H-PE-2

FINISHES[1]:	Spec. Ref.#
Flooring:	
Wood flooring	096466
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

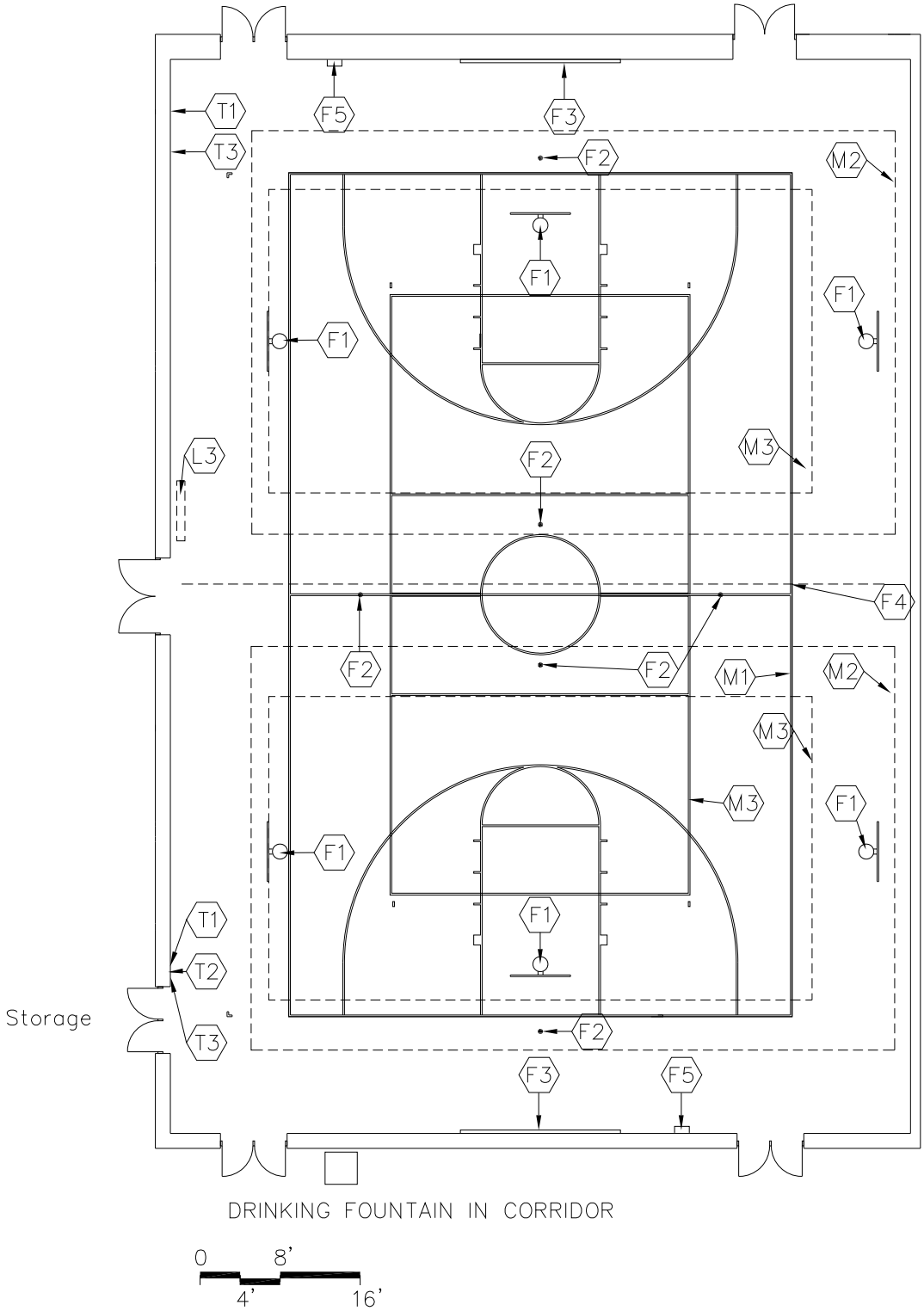
Provide wire guards on light fixtures and wall-mounted electrical devices.

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 ***projector*** 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 OSFC does not co-fund telescoping bleachers in auxiliary gyms. District may provide telescoping bleachers in accordance with section 126600 at district's expense.

AUXILIARY GYMNASIUM
H-PE-2



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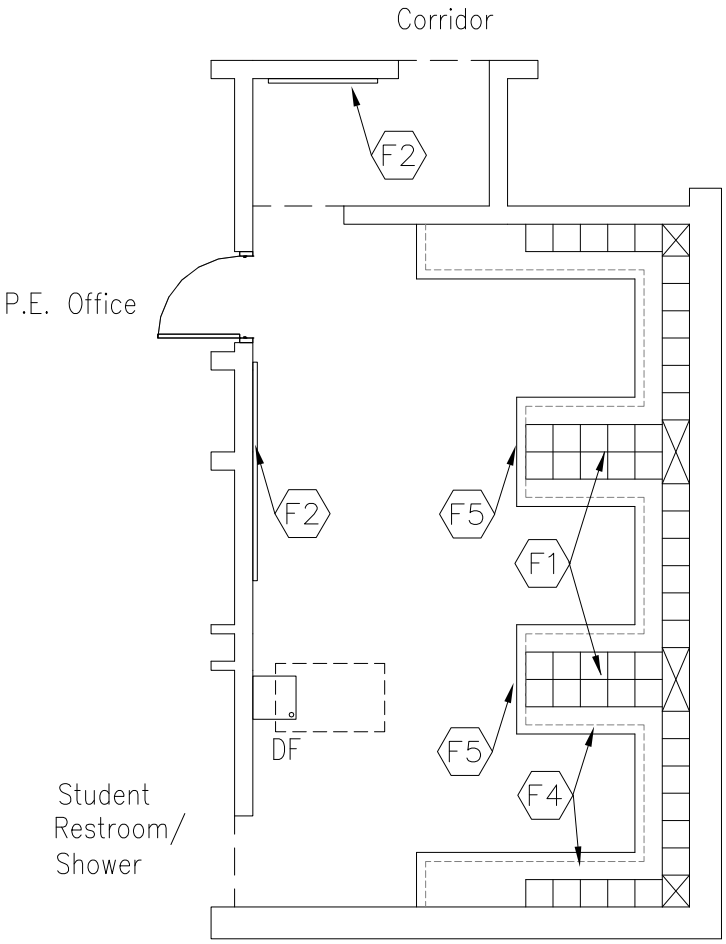


CAPACITY: 25 - 60 students
SIZE: 550 - 850 SF
ANCILLARY SPACES:
Student Restroom/Shower, H-PE-4
P.E./Athletic Office, H-PE-6

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
- Adjacent to P.E./athletic office
- Direct access to both gymnasium and outdoor area
- Located on gymnasium level

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

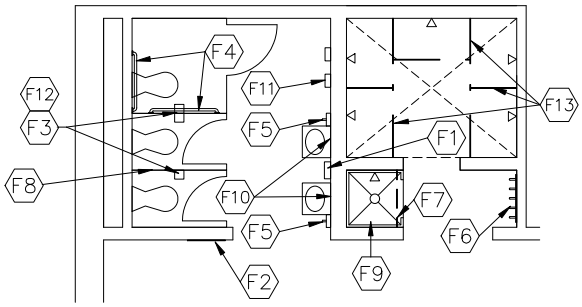
STUDENT LOCKER ROOM
H-PE-3

FINISHES[1]:	Spec. Ref.#
Flooring:	
Vinyl or rubber sheet flooring,	096500
rubber tile, or	096723
resinous flooring	
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, tack board, tackable wallsurface	101100
F3 Reserved	
F4 Locker benches	062000
F5 Mirrors	102813
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Drinking fountain	224000/224700
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 per code	265100
Means of egress lighting per code	265100
Communications:	
Clock	275313
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

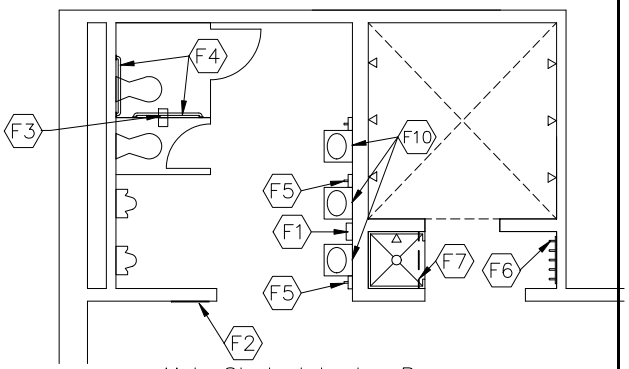
NOTES:

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:	200 – 350 SF
ANCILLARY SPACES:	Student Locker Room H-PE-4

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
H-PE-4

FINISHES[1]:	Spec. Ref.#
Flooring:	
Restroom: Vinyl, rubber sheet	096500
flooring, rubber tile, or	093000
resinous flooring	096723
Shower: Ceramic mosaic tile, porcelain tile, or resinous flooring	
Base:	
Restroom: Resilient base,	096500
resinous flooring, or	093000
integral vinyl cove base	096723
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	042000/099100
or ceramic wall tile in showers	093000
and latex paint in restroom	099100
LOOSE FURNISHINGS:	
Wastebaskets	

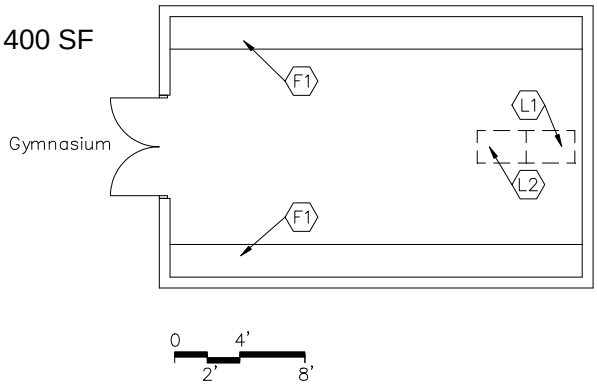
FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Towel dispensers	102813
F2 24" by 60" mirror	102813
F3 Toilet tissue holders	102813
F4 36" and 42" grab bars	102813
F5 Soap dispensers	102813
F6 Towel hooks	102813
F7 Shower curtain and rod	102813
F8 Toilet partitions	102813
F9 ADA shower accessories	102813
F10 16" x 24" mirrors with shelves	102813
F11 Sanitary product dispensers[2]	102813
F12 Sanitary product receptacles[2]	102813
F13 Modesty shower partitions[2]	102813
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
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:

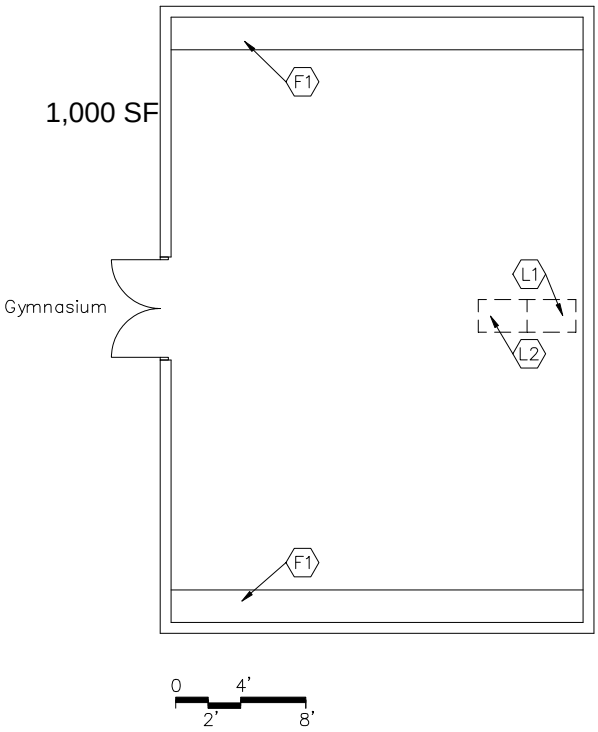
1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Toilet accessories and shower partitions for female locker rooms.
3. Optional: electric hand dryers

PHYSICAL EDUCATION STORAGE
H-PE-5

400 SF



1,000 SF



CAPACITY:	N/A
SIZE:	400 – 1,000 SF
ANCILLARY SPACES:	Gymnasium H-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
H-PE-5

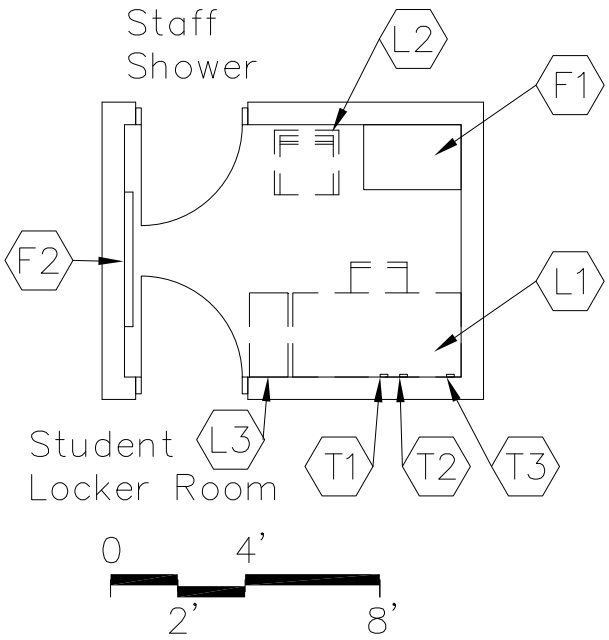
FINISHES[1]:	Spec. Ref.#
Flooring:	
Sealed concrete	033000
Base:	
No base	
Ceiling:	
Exposed structure	
Option: Rated gypsum wallboard	092113
Walls:	
Unpainted concrete masonry units	042000

LOOSE FURNISHINGS:
L1 Tumbling mats on carts
L2 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.



CAPACITY: 1 teacher
SIZE: 75 SF
ANCILLARY SPACES: Student Locker Room H-PE-3
Staff Shower H-PE-7

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

SPATIAL RELATIONSHIPS:
- Adjacent to student locker room
- Adjacent to staff shower

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

NOTES:

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

P. E. / ATHLETIC OFFICE
H-PE-6

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

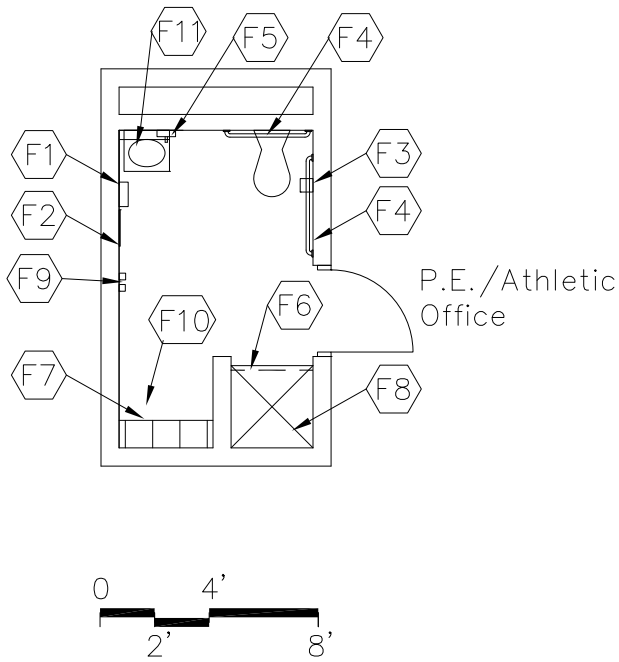
LOOSE FURNISHINGS:
L1 Teacher desk and chair
L2 Visitor chair
L3 File cabinet
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Tall wardrobe	123550
F2 4' of tack board	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 each data 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 windows (optional)	081113/088000

NOTES:

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

STAFF SHOWER
H-PE-7



CAPACITY: 1 person
SIZE: 75 SF
ANCILLARY SPACES: P.E./Athletic Office
H-PE-6

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:

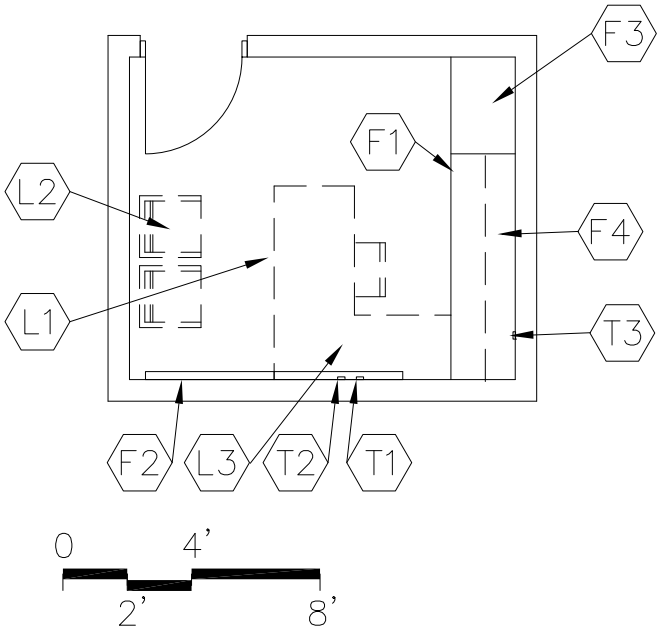
STAFF SHOWER
H-PE-7

FINISHES[1]:	Spec. Ref.#
Flooring:	
Restroom: ET,	096500
sheet vinyl, ***or***	096516
resinous flooring	093000
Shower: Ceramic mosaic tile,	096723
porcelain tile, or resinous flooring	
Base:	
Restroom: Resilient base,	096500
resinous flooring, or	093000
integral vinyl cove base	096723
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	093000
and 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-***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.



PROGRAM ACTIVITIES:
- Space for planning and scheduling

SPATIAL RELATIONSHIPS:
- Near gymnasium

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

CAPACITY: 1 - 3 persons
SIZE: 120 SF
ANCILLARY SPACES:

NOTES:

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

ATHLETIC DIRECTOR'S OFFICE
H-PE-8

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

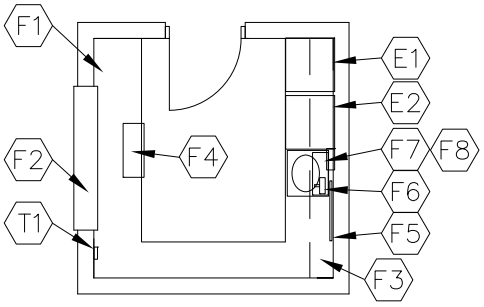
LOOSE FURNISHINGS:
L1 Desk and chair
L2 Visitor chairs
L3 Computer desk return
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Work surface with file drawers	123550
F2 4' of tack board or marker board tackable wall surface	101100
F3 Tall wardrobe	123550
F4 Wall cabinets above work surface	123550
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	

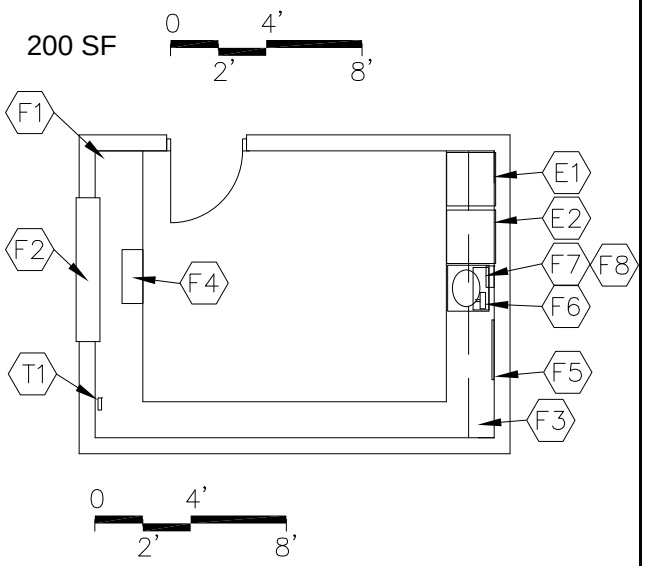
NOTES:

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.

100 SF



200 SF



CAPACITY: 1 - 5 people
SIZE: 100 - 500 SF

PROGRAM ACTIVITIES:
- Space for ticket sales
- Space for concession sales

SPATIAL RELATIONSHIPS:
- Near gymnasium

ENVIRONMENTAL CONSIDERATIONS:
- Adequate ventilation

NOTES:

LOBBY SERVICES

H-PE-9

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

LOOSE FURNISHINGS:
- Stool

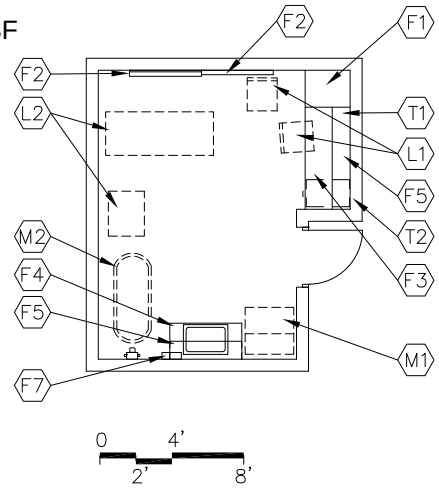
EQUIPMENT:
- E1 Washer
- E2 Dryer

FEATURES:		Spec. Ref.#
Fixed Items:		
F1	10' - 40' of base cabinets	123550
F2	Coiling door	083320
F3	Wall cabinets	123550
F4	Money drawer	
F5	4' of tack board	101100
F6	Soap dispenser	102813
F7	Shelf above sink (optional)	102813
F8	Towel dispenser	102813
Fire Suppression:		
	Fire suppression system	211000
Plumbing:		
	Washer connection	224000
	Sink in cabinet	224000
	Plumbing connections	224000/221116/221119
HVAC:		
	Supply/return air system	Div. 23
	Independent temperature control	230923
	Dryer vent connection	Div. 23
Electrical:		
	8 duplex receptacles	262726
	Fluorescent lighting	265100
	Illumination level: See Table 8600-***9***	
	Single level switching	265100
	Receptacles for concession equipment	262726
Communications:		
T1	data port for cash register	271523
Electronic Safety and Security:		
	N/A	
Miscellaneous:		
	N/A	

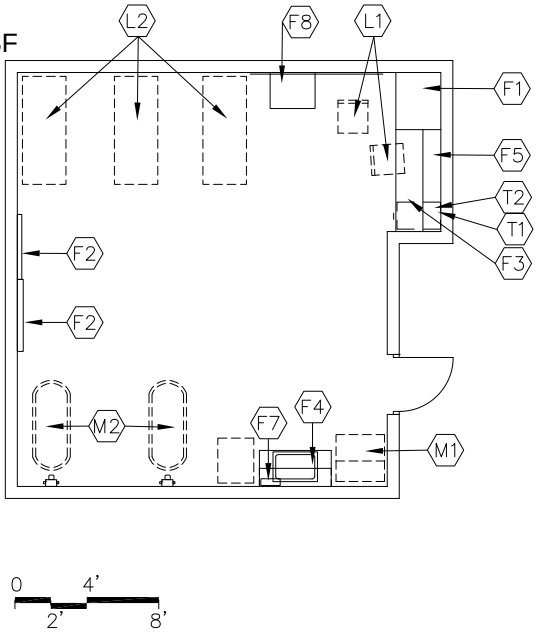
NOTES:

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

200 SF



500 SF



CAPACITY: 3 – 7 persons
SIZE: 200 - 900 SF

PROGRAM ACTIVITIES:
- Injury rehabilitation
- Injury prevention
- Injury management
- Treatments such as hydro therapy, stretching, and taping

SPATIAL RELATIONSHIPS:
- Near multi-use P.E. room
- Near physical health classroom
- Near gymnasium
- Near student locker rooms

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

NOTES:

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

TRAINING ROOM
H-PE-10

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

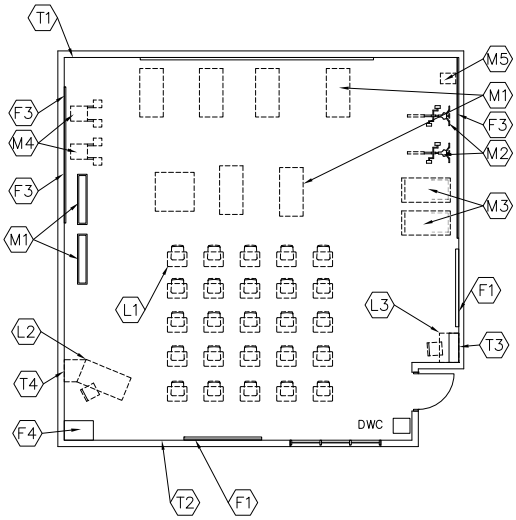
LOOSE FURNISHINGS:

L1 Chairs
L2 Taping tables
Wastebasket

FEATURES[1]:		Spec. Ref.#
Fixed Items:		
F1	***T***all wardrobe with files	123550
F2	***8'-12' combination chalk/marker board, tack board, tackable wall surface***	101100
F3	Work surface with file drawers	123550
F4	3' sink base cabinet	123550
F5	Wall cabinets	123550
F6	***Reserved***	
F7	Towel dispenser	102813
F8	About 3' tall storage cabinet	123550
Fire Suppression:		
	Fire suppression system	211000
Plumbing:		
	Plumbing connections	224000/221116/221119
	Whirlpool, sink, and washer/dryer	Div. 23
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
	2 duplex receptacles	262726
	Double duplex receptacle adjacent to each data port	262726
	Electrical power for ice machine and whirlpool	262726
Communications:		
T1	1 data port near trainer workstation	271513
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:		
The following items are to be funded by the school district:		
M1	Ice Machine	
M2	Whirlpool	

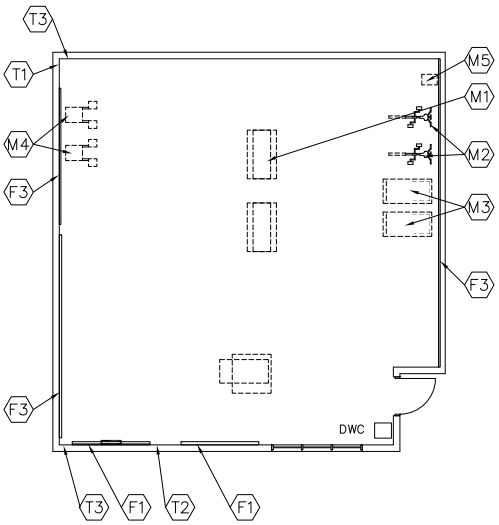
NOTES:

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



2,000 SF

0 8' 4' 16'



CAPACITY: 15 - 25 students
SIZE: 1,500 SF

PROGRAM ACTIVITIES:

- Weight lifting
- Exercise on a variety of devices including stairclimbers, exercise bikes, and treadmills
- Instructional space for health, safety, first-aid, and other physical education classes
- Group and individual work
- Demonstrations

SPATIAL RELATIONSHIPS:

- Near training room
- Near gymnasium
- Near locker rooms

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.

PHYSICAL HEALTH CLASSROOM
H-PE-11

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

LOOSE FURNISHINGS:
- L1 Student desks and chairs(if applicable)
- L2 Teacher workstation and chair
- L3 Computer workstation
  - File drawer
  - Wastebasket

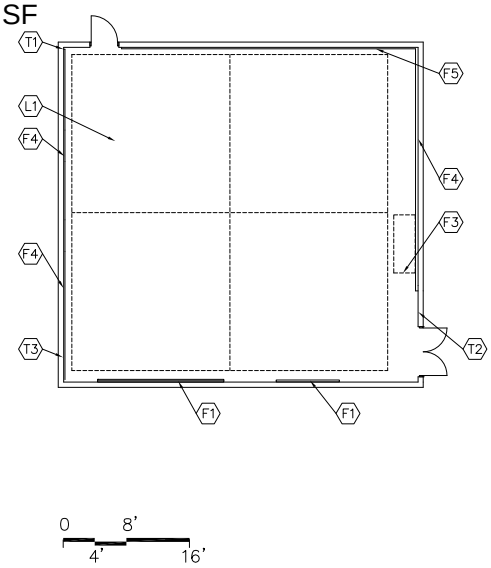
FEATURES[1]:		Spec. Ref.#
Fixed Items:		
F1	8'-16' combination marker board, tack board, and tackable wall surface	101100
F2	Reserved	
F3	5' high mirror mounted 12" above floor	088300
F4	Tall wardrobe (optional)	123550
Fire Suppression:		
	Fire suppression system	211000
Plumbing:		
	Plumbing connections	224000/221116/221119
	Drinking water cooler	224000
HVAC:		
	Supply/return air system	Div. 23
	Independent temperature control	230923
Electrical:		
	Fluorescent lighting:	265100
	Illumination level: See Table 8600-5	
	Multilevel switching	262726
	8 – 10 duplex receptacles	262726
	Double duplex receptacle adjacent to each data port	262726
Communications:		
T1	1 ***projector*** video port and video display device	271543/274119
T2	1 voice port and phone	271513/273123
T3	1 data port	271513
T4	1 data port near teacher workstation	271513
	Clock	275313
	Central sound system	275123
Electronic Safety and Security:		
	Life safety devices per code	283111

Miscellaneous:

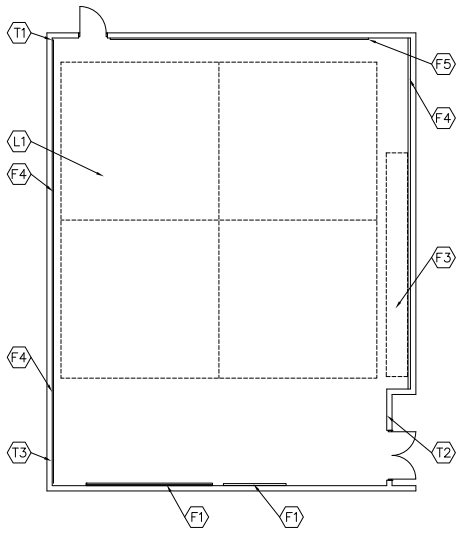
The following items are to be funded by the school district:
- M1 Weight lifting equipment
- M2 Stationary bikes
- M3 Treadmills
- M4 Stairclimbers
- M5 Digital weight scale

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.

1,600 SF



3,000 SF



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

PROGRAM ACTIVITIES:

- Auxiliary space for wrestling in physical education classes
- Dance
- Aerobics
- Gymnastics

SPATIAL RELATIONSHIPS:

- Near gymnasium
- Near locker rooms

ENVIRONMENTAL CONSIDERATIONS:

- 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.

MULTI-USE P.E. ROOM
H-PE-12

FINISHES[1]:	Spec. Ref.#
Flooring:	
Linoleum,	096516
ET, sheet vinyl, rubber, or	096500
fluid-applied athletic flooring	096766
Base:	
Resilient base	096500
Ceiling:	
Painted exposed structure	099100
Walls:	
Painted concrete masonry units	042000/099100

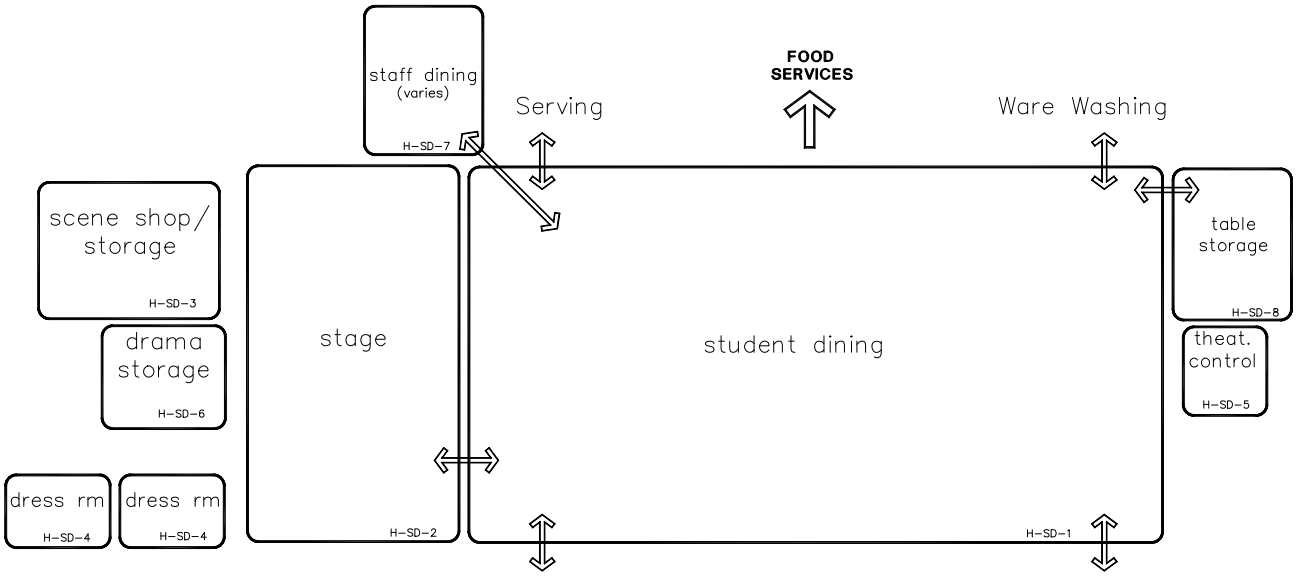
LOOSE FURNISHINGS:

L1 Wrestling mat

FEATURES:		Spec. Ref.#
Fixed Items:		
F1	8'-24' combination marker board, tack board, and tackable wall surface	101100
F2	Reserved	
F3	Mat hoist (optional)	116623
F4	Safety wall wainscot	116623
Fire Suppression:		
	Fire suppression system	211000
Plumbing:		
	N/A	
HVAC:		
	Supply/return air system	Div. 23
	Independent temperature control	230923
Electrical:		
	High intensity discharge lighting: or fluorescent lighting Illumination level: See Table 8600-5	265100
	Multilevel switching	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	271513/273113
T3	1 data port	271513
	Clock with wire guards	275313
	Central sound system horns	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 student dining spaces in a high school could be arranged. This is meant only to demonstrate the relationships between various areas of the building.

Following are the Student Dining space plates:

H-SD-1	Student Dining
H-SD-2	Stage
H-SD-3	Scene Shop/Storage
H-SD-4	Make-up/Dressing Room
H-SD-5	Theatrical Control Room
H-SD-6	Drama Storage
H-SD-7	Staff Dining
H-SD-8	Table Storage
H-SD-9	***Family Restroom***

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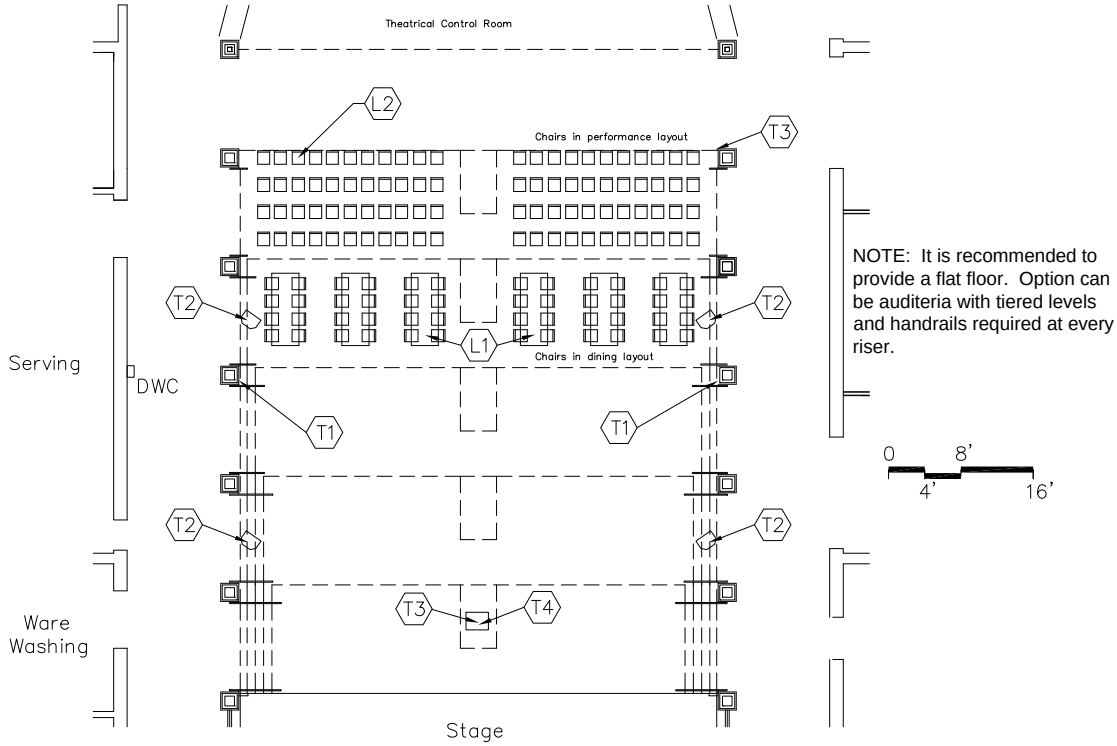


NOTE: It is recommended to provide a flat floor. Option can be auditeria with tiered levels and handrails required at every riser.

CAPACITY: 1/3 of student capacity

SIZE: 1/3 of student capacity multiplied by 17.5 SF per student or 3,000 SF whichever is greater

ANCILLARY SPACES: Kitchen, H-FS-1
Stage, H-SD-2
Theatrical Control Room, H-SD-5

PROGRAM ACTIVITIES:
- Student dining
- Large group instruction, meetings and banquets
- Watching performances
- Special activities
- Refreshment area for school activities

SPATIAL RELATIONSHIPS:
- Adjacent to stage
- Adjacent to kitchen
- Adjacent to theatrical control room

ENVIRONMENTAL CONSIDERATIONS:
- Environmental sound control - walls and ceiling to be designed for auditorium-type acoustics sound system, theatrical lighting
- Flexibility of space
- Access capability
- Environmental sound control wall minimum STC 60

NOTES:

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

STUDENT DINING
H-SD-1

FINISHES[1]:	Spec. Ref.#
Flooring:	
Linoleum, rubber, ET,	096500
sheet vinyl, porcelain tile,	096516
resinous flooring,	096723
polished concrete finishing,	033510
or colored concrete finishing	033519
Base:	
Resilient base	096500
Option: Porcelain tile base	093000
Ceiling[3]:	
Suspended, acoustical	095113
Painted exposed structure	099100
Reflector panels	098000
Walls:	
Painted concrete masonry units	042000/099100
Diffusing block on 2 walls (minimum) or	042000
Acoustic treatment (varies with geometry of room)	098000

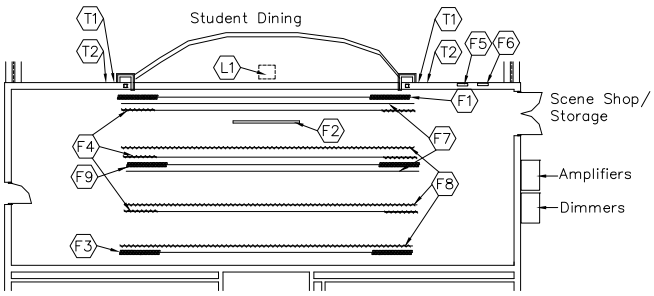
LOOSE FURNISHINGS:

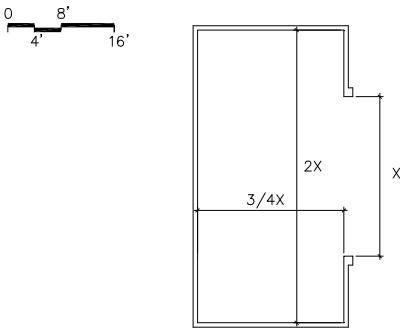
L1 Tables
L2 Folding or high-density stack chairs for large assembly use
Waste receptacles
Recycling bins
Carts for chairs

Note: Cafeteria tables with attached stools shall be securely anchored to walls when not in use, or be kept in a 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 temperature control	230923
Electrical:	
High intensity discharge lighting or fluorescent lighting	265100
Dimmable quartz lighting	265100
Theatrical lighting	265561
Illumination level: see table 8600-6	
Multilevel switching with dimming	262726
6 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
Telecommunications Grounding	270526/260526
Communications:	
T1 2 voice ports	271513/273123
T2 2 ***projector*** video ports	271543
T3 2 data ports (minimum)	271513
Clocks	275313
Central sound system	275123
Student dining/auditeria sound system	275121
T4 ***Ultra-short throw interactive*** projector	274119
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
Windows with interior blinds or	081113 /
Windows with shading devices (optional)	088000

NOTES:
1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Other types of ceiling may be appropriate based on the actual facility design. High ceilings are appropriate for auditorium-type of acoustics.





ASPECT RATIO OF STAGE

Proportions are recommended – not mandatory.

CAPACITY: N/A

SIZE: Based on student capacity
x = proscenium opening
See diagram for dimension

ANCILLARY SPACES:
Student Dining, H-SD-1
Scene Shop and Storage, H-SD-3

PROGRAM ACTIVITIES:
- Stage acting
- Musical performances
- Presentations

SPATIAL RELATIONSHIPS:
- Near make-up/dressing rooms
- Adjacent to student dining
- Adjacent to scene shop storage

ENVIRONMENTAL CONSIDERATIONS:
- Environmental sound control - walls and structure above to be designed for performance
- Stage set and rigging
- Access capability
- Auditorium-type acoustics and sound system, as well as theatrical lighting

NOTES:

STAGE
H-SD-2

FINISHES[1]:	Spec. Ref.#
Flooring:	
Stage: Softwood or combination hardwood and softwood	096400
Stairs: Carpet, carpet tile,	096816
rubber, or wood	096813
Base:	
Ventilated resilient base	096400
Ceiling:	
Painted exposed structure	099100
Walls:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:

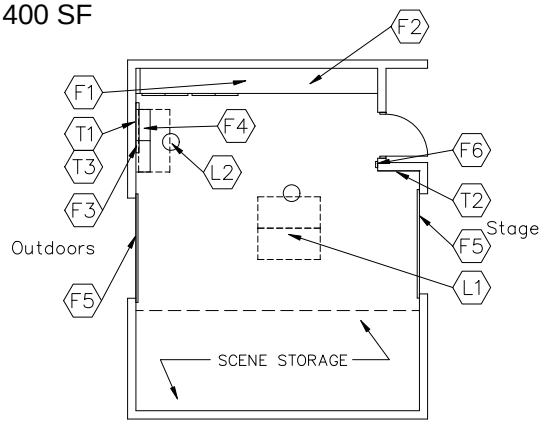
L1 Podium

FEATURES[1]:		Spec. Ref.#
Fixed Items:		
F1	Front curtain, track, and valance or grand border	116143
F2	Projection screen	116143
F3	Rear curtain with track	116143
F4	Leg curtains, tracks, and/or pivots	116143
F5	Sound control console receptacle	275121
F6	Lighting control console receptacle	265100
F7	Light pipe	116143
F8	Border curtains	116143
F9	Mid-stage traveler	116143
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 8600-10	
	Single level switching	262726
	Stage dimming system	265561
	Theatrical lighting	265561
	Illumination level: see table 8600-6	
	6 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
	Telecommunications Grounding	270526/260526
Communications:		
T1	2 ***projector*** video ports (1 on each side of proscenium opening)	271543
T2	2 data ports (1 on each side of proscenium opening)	271523
	Student dining/auditeria sound system[2]	275121
	Central sound system	275123
Electronic Safety and Security:		
	Life safety devices per code	283111
Miscellaneous:		
	N/A	

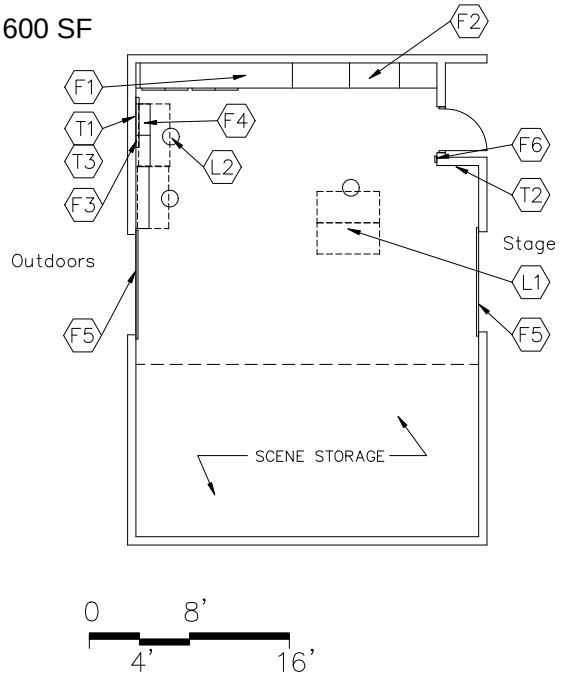
NOTES:

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

400 SF



600 SF



CAPACITY: N/A
SIZE: 400 - 1000 SF
ANCILLARY SPACES: Stage, H-SD-2
Auditeria/Student Dining, H-SD-1

PROGRAM ACTIVITIES:

- Construction of sets, flats, and scenery for fine arts performances
- Painting
- Cutting wood
- Assembling
- Gluing
- Storage of tools and materials
- Storage of sets, flats, and scenery

SPATIAL RELATIONSHIPS:

- Near stage
- Near drama storage
- Near auditeria/student dining
- Convenient to outside and materials delivery

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
  wall minimum STC 40
  ceiling minimum CAC 35, NRC 0.70
- 12' clear height to nearest obstruction

NOTES:

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

SCENE SHOP AND STORAGE

H-SD-3

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

LOOSE FURNISHINGS:

L1 Work tables
L2 Work bench stools
Waste receptacle

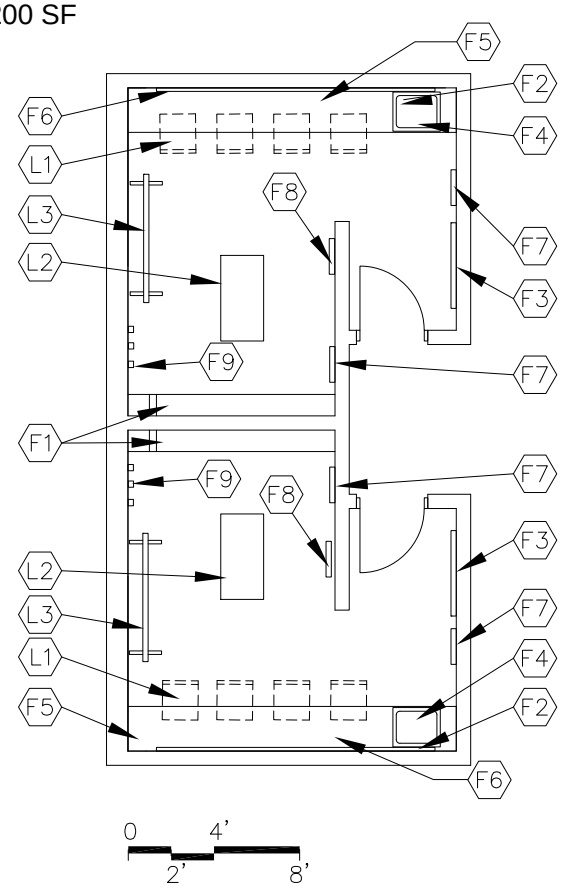
FEATURES:		Spec. Ref.#
Fixed Items[2]:		
F1	9'-22' of tall storage cabinets	123550
F2	5'-10' of wall cabinets (optional)	123550
F3	4' of tack board	101100
F4	5'-10' base cabinet with work counter	123550
F5	(2) 8' wide x 10' high overhead door	083613
F6	Pencil sharpener support (optional)	062000
Fire Suppression:		
	Fire suppression system	211000
Plumbing:		
	N/A	
HVAC:		
	Supply/return air system	Div. 23
	Independent temperature control	230923
	Manual exhaust	Div. 23
Electrical:		
	Fluorescent lighting:	265100
	Illumination level: see table 8600-6	
	Single level 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	271513/273113
T3	1 data port	271513
	Clock	275313
	Central sound system	275123
Electronic Safety and Security:		
	Life safety devices per code	283111

Miscellaneous:
Shop equipment by school district
Pencil sharpener (optional)

NOTES:

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

200 SF



PROGRAM ACTIVITIES:
- Dressing for stage productions
- Application of make-up for stage productions

SPATIAL RELATIONSHIPS:
- Near stage
- Near restrooms

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

CAPACITY: 20 students
SIZE: 200 - 400 SF each male/female

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

MAKEUP/DRESSING ROOMS

H-SD-4

FINISHES[1]:	Spec. Ref.#
Flooring:	
Linoleum,	096516
ET, sheet vinyl, rubber,	096500
resinous flooring,	***096723***
polished concrete flooring, or	033510
or colored concrete finishing	033519
Base:	
Resilient base, or	096500
integral vinyl cove base	
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

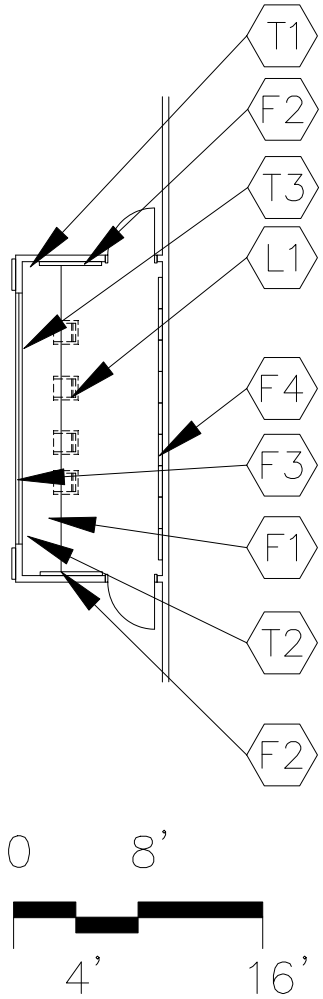
LOOSE FURNISHINGS:

L1 Chairs
L2 Bench
L3 Mobile costume rack
Wastebasket

FEATURES:	Spec. Ref.#
Fixed Items:	
F1 6'-16' of costume storage cabinets	123550
F2 Towel dispenser (optional)	102813
F3 4'-8' of tack board	101100
F4 3' sink base cabinet	123550
F5 8'-13' of work surface	123550
F6 48" high makeup mirrors - full length of work surface	088300
F7 2 minimum 20" wide x 60" high dressing mirrors	088300
F8 Shallow wall cabinet for makeup (optional)	123550
F9 Coat hooks	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:	
Fluorescent lighting: overhead	265100
Incandescent lighting: over makeup mirrors	265100
Illumination level: See Table 8600-***6***	
Single level switching	262726
2 duplex receptacles	262726
Duplex receptacle at each makeup station under mirror	262726
Telecommunications Grounding	270526/260526
Communications:	
Clock	275313
Student Dining/Auditeria sound system	275121
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: 5 persons
SIZE: 200 SF
ANCILLARY SPACES: Auditeria/Student Dining
H-SD-1

PROGRAM ACTIVITIES:
- Lighting and sound control for auditeria/student dining
- Slide, movie, and video projection
- Communications with stage

SPATIAL RELATIONSHIPS:
- Adjacent to auditeria/student dining
- Close proximity to stage

ENVIRONMENTAL CONSIDERATIONS:
- Environmental sound control
- HVAC requirements based on high density of electronic equipment and people

NOTES:

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

THEATRICAL CONTROL ROOM
H-SD-5

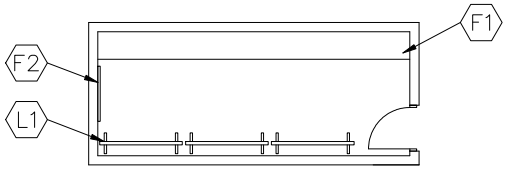
FINISHES[1]:	Spec. Ref.#
Flooring:	
Linoleum,	096516
ET, sheet vinyl, rubber,	096500
polished concrete finishing, or	033510
colored concrete finishing	033519
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted gypsum wallboard	042000/099100
Acoustical wall treatment	098000

LOOSE FURNISHINGS:
L1 Chairs
Wastebasket

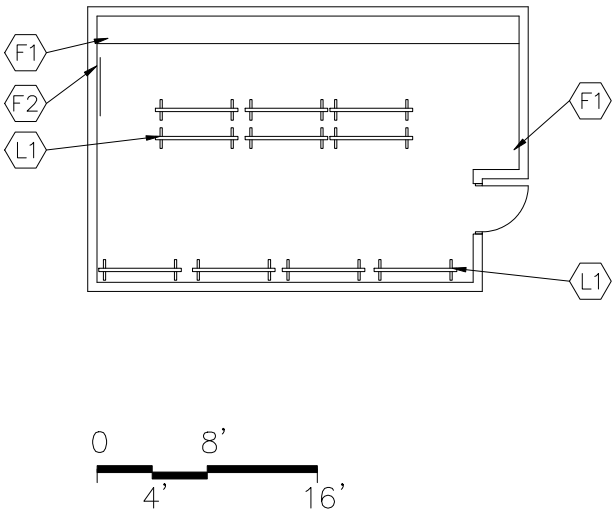
FEATURES:		Spec. Ref.#
Fixed Items:		
F1	10'-20' of equipment/work surface	123550
F2	4'-8' of tack board	101100
F3	Operable window (optional)	085113
F4	Acoustic wall treatment (optional)	098000
Fire Suppression:		
	Fire suppression system	211000
Plumbing:		
	N/A	
HVAC:		
	Supply/return air system	Div. 23
	Independent temperature control	230923
Electrical:		
	Fluorescent lighting: overhead	265100
	Illumination level: See Table 8600-6	
	Dimmable incandescent task lighting on work surface	265100
	Single level switching	262726
	Student dining/auditeria lighting wired through stage dimmer panel	265561
	4 duplex receptacles	262726
	Provisions for hard-wired equipment	260519/260533
	Empty communications conduit with pull cable from stage for future video projection control	Div. 26
	Stage dimming system control panel	265561
	Telecommunications Grounding	270526/260526
Communications:		
T1	1 voice port and phone	271513/273123
T2	1 ***projector*** video port	271543
T3	2 data ports	271513
	Student Dining/Auditeria sound system control panel	275121
	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.

200 SF



600 SF



CAPACITY: N/A
SIZE: 200 – 1,000 SF

PROGRAM ACTIVITIES:

- Long- and short-term storage of drama department costumes
- Costume organization and inventory
- Costume distribution

SPATIAL RELATIONSHIPS:

- Near scene shop/storage
- Near stage
- Near auditeria/student dining

ENVIRONMENTAL CONSIDERATIONS:
N/A

NOTES:

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

DRAMA STORAGE
H-SD-6

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

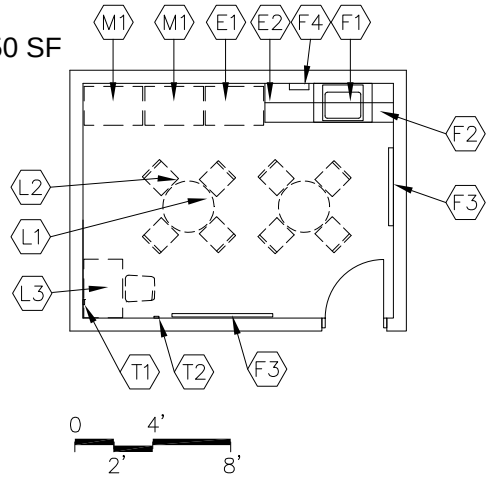
LOOSE FURNISHINGS:
L1 Mobile clothes racks

FEATURES:	Spec. Ref.#
Fixed Items:	
F1 10'-22' of costume storage cabinets	123550
F2 4' of tack board (optional)	101100
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
To be determined by Design Professional	
Supplementary heat as required	Div. 23
Electrical:	
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	

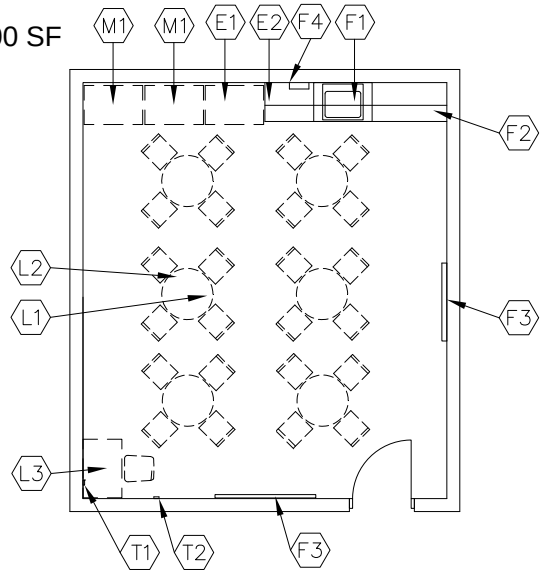
NOTES:

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

450 SF



900 SF



CAPACITY:	8 – 24 staff
SIZE:	450 – 1,200 SF
ANCILLARY SPACES:	Student Dining H-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
H-SD-7

FINISHES[1]:	Spec. Ref.#
Flooring:	
Linoleum, rubber, ET,	096500
sheet vinyl, or porcelain tile	096516
resinous flooring	093000
	096723
Base:	
Resilient base	096500
Optional: porcelain tile base	093000
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted, concrete masonry units	042000/099100

LOOSE FURNISHINGS:
L1 Tables
L2 Chairs
L3 Computer workstation
Waste receptacle

EQUIPMENT:
E1 Refrigerator with icemaker
E2 Microwave

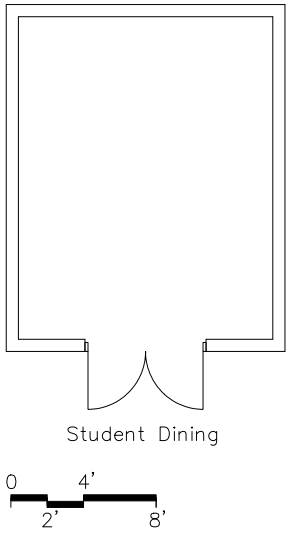
FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 3' sink base cabinet with wall cabinet	123550
F2 About 8' of base and wall cabinets	123550
F3 8'-10' combination marker board, tack board, and tackable wall surface	101100
F4 Towel dispenser	102813
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
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 8600-6	
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	271513/273123
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

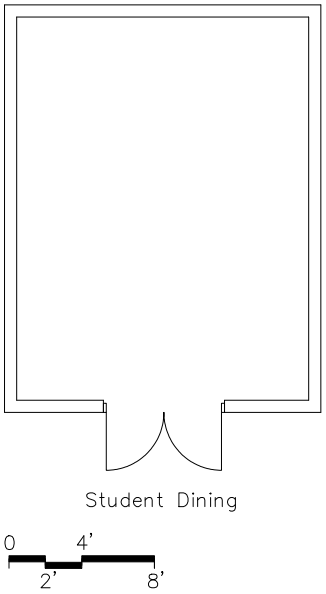
NOTES:

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

400 SF



700 SF



CAPACITY:	N/A
SIZE:	400 - 700 SF
ANCILLARY SPACES:	Student Dining H-SD-1

PROGRAM ACTIVITIES:
- Storage for tables and chairs

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

ENVIRONMENTAL CONSIDERATIONS:

NOTES:

TABLE STORAGE
H-SD-8

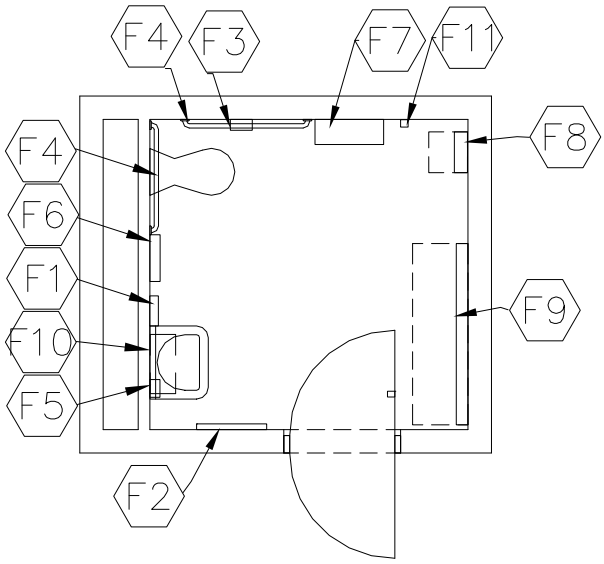
FINISHES[1]:	Spec. Ref.#
Flooring:	
Sealed concrete	093000
Base:	
No base	
Ceiling:	
Exposed structure	
Option: Rated gypsum wallboard	092116
Walls:	
Unpainted concrete masonry units	042000
LOOSE FURNISHINGS:	
N/A	

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
H-SD-9



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
H-SD-9

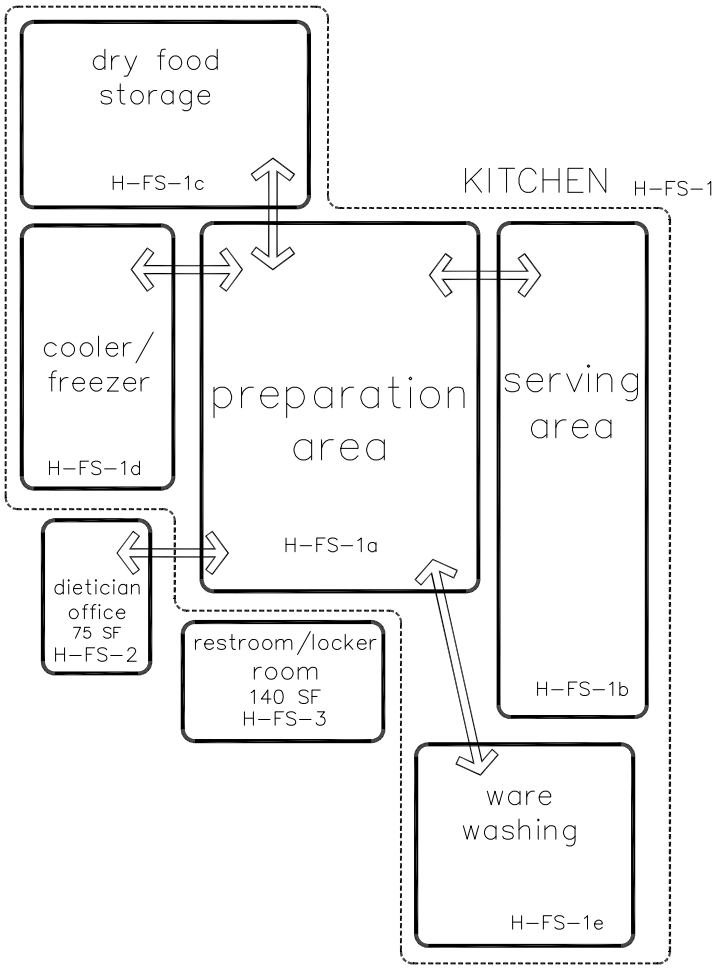
FINISHES[1]:	Spec. Ref.#
Flooring:	
Sheet vinyl,	096516
ceramic mosaic tile, or ET	096500
Optional: Ceramic mosaic tile,	093000
porcelain tile, or	096723
resinous flooring	
Base:	
Resilient base	096500
Optional: Ceramic mosaic tile,	093000
porcelain tile, resinous flooring	096723
flooring, or integral 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 high school could be arranged. This is meant only to demonstrate the relationships between various spaces of this area.

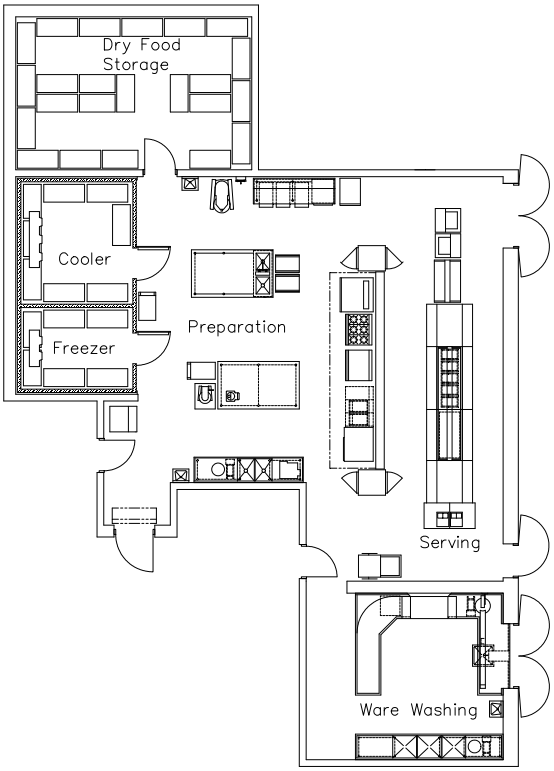
Following are the Food Service space plates:

H-FS-0	Warming Kitchen
H-FS-1	Kitchen
H-FS-1a	Preparation Area
H-FS-1b	Serving Area
H-FS-1c	Dry Food Storage
H-FS-1d	Cooler/Freezer
H-FS-1e	Ware Washing
H-FS-2	Custodial Closet
H-FS-3	Dietician Office
H-FS-4	***Restroom/Locker Room***

KITCHEN
H-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 H-SD-1
Loading/Receiving Area H-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:

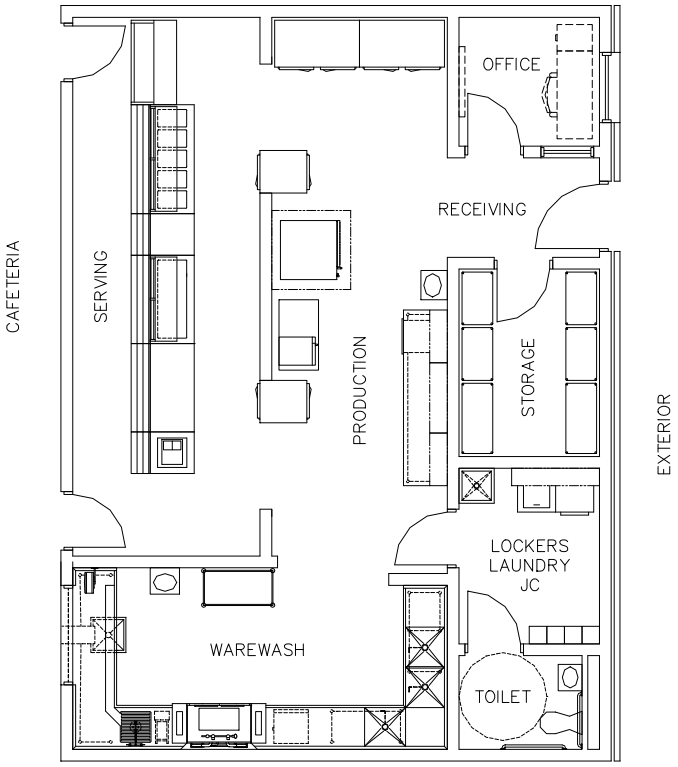
This kitchen layout is to be used only for a central kitchen operation.

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 H-SD-1
Loading/Receiving Area H-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

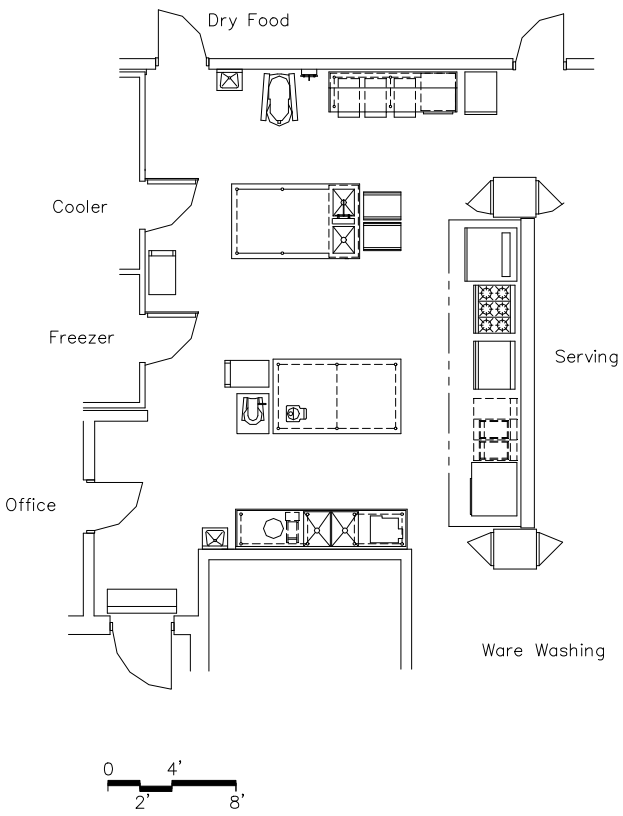
H-FS-0

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



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

H-FS-1a

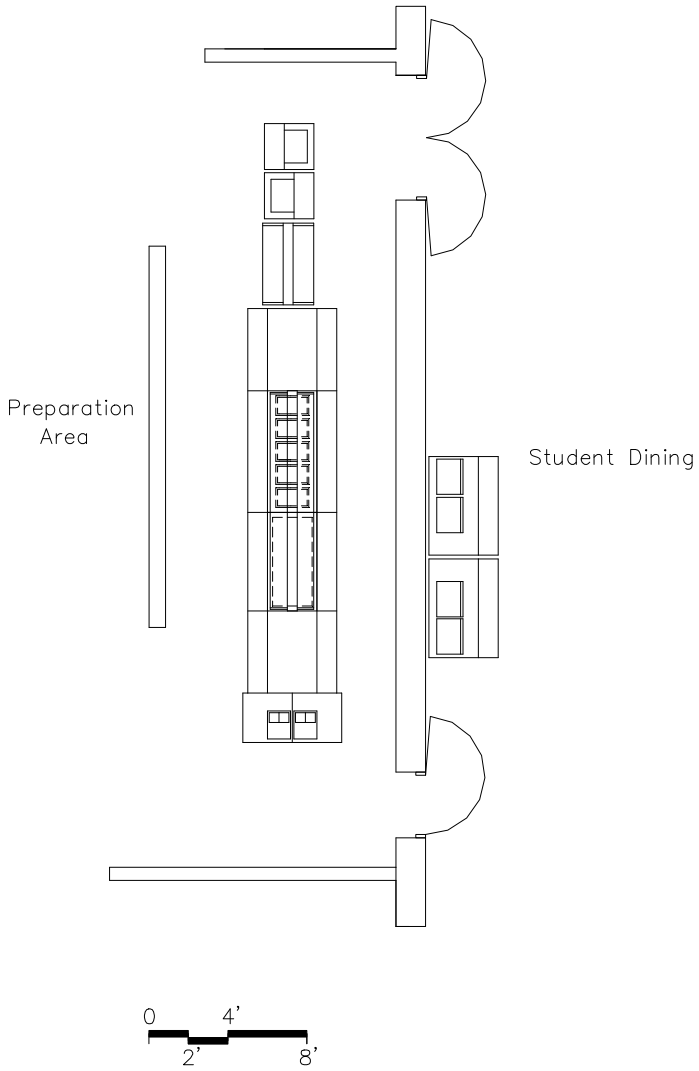
FINISHES[1]:	Spec. Ref.#
Flooring:	
Quarry tile or ***resinous flooring***	093000 ***096723***
Base:	
Quarry tile base or ***integral base***	093000
Ceiling:	
Cleanable, suspended, acoustical	095113
Walls:	
Epoxy-painted concrete masonry units	042000/099100
Option: ceramic wall tile	093000
or latex paint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

LOOSE FURNISHINGS:
N/A

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
Food service equipment	114000
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
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	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 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

H-FS-1b

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

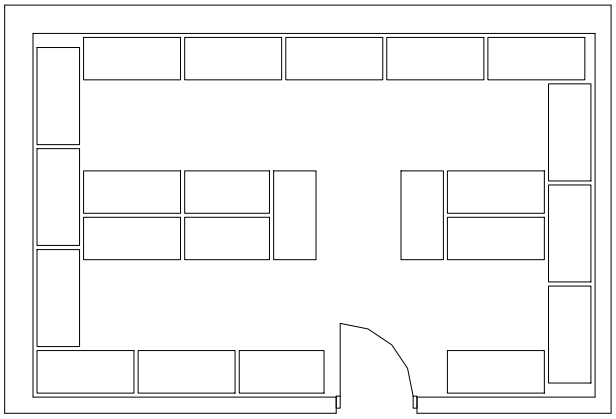
LOOSE FURNISHINGS:

N/A

FEATURES[1]:	Spec. Ref.#
Fixed Equipment:	
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

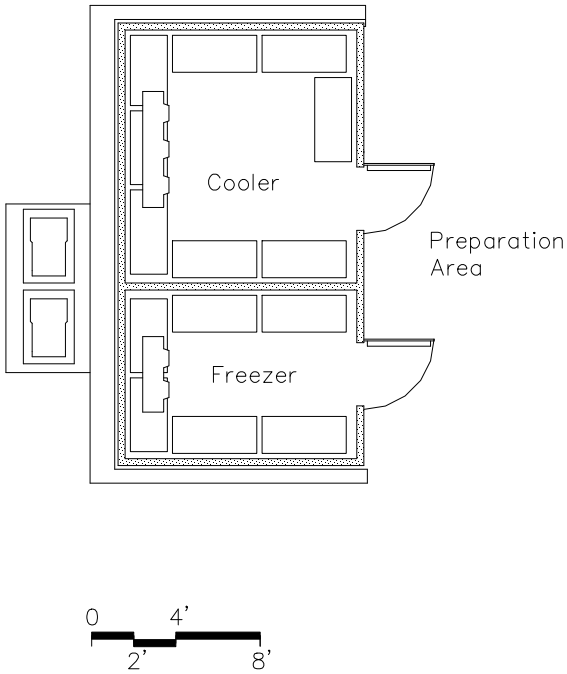
H-FS-1c

FINISHES[1]:	Spec. Ref.#
Flooring:	
Linoleum, ET, or sheet vinyl	096500
Option: Quarry tile or ***resinous***	093000
flooring	096516
	096723
Base:	
Resilient base	096500
Option: Quarry tile	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

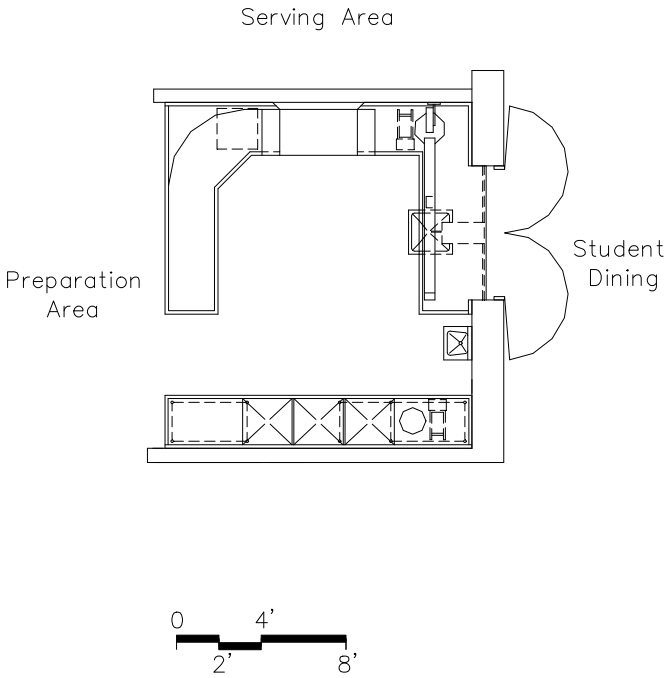
H-FS-1d

FINISHES[1]:	Spec. Ref.#
Flooring:	
Quarry tile or ***resinous flooring***	093000 ***096723***
Base:	
Quarry tile base or ***integral base***	093000
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
Incandescent 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

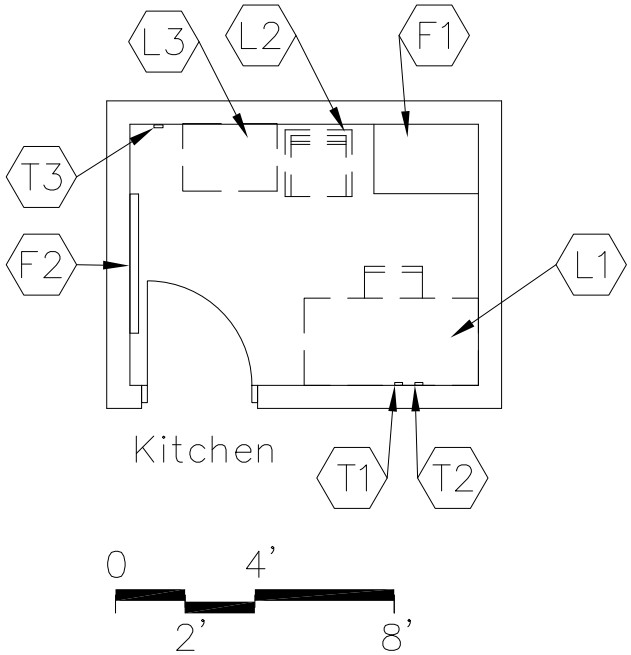
H-FS-1e

FINISHES[1]:	Spec. Ref.#
Flooring:	
Quarry tile or ***resinous flooring***	093000 ***096723***
Base:	
Quarry tile base or ***integral base***	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:	
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 H-FS-1

NOTES:

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

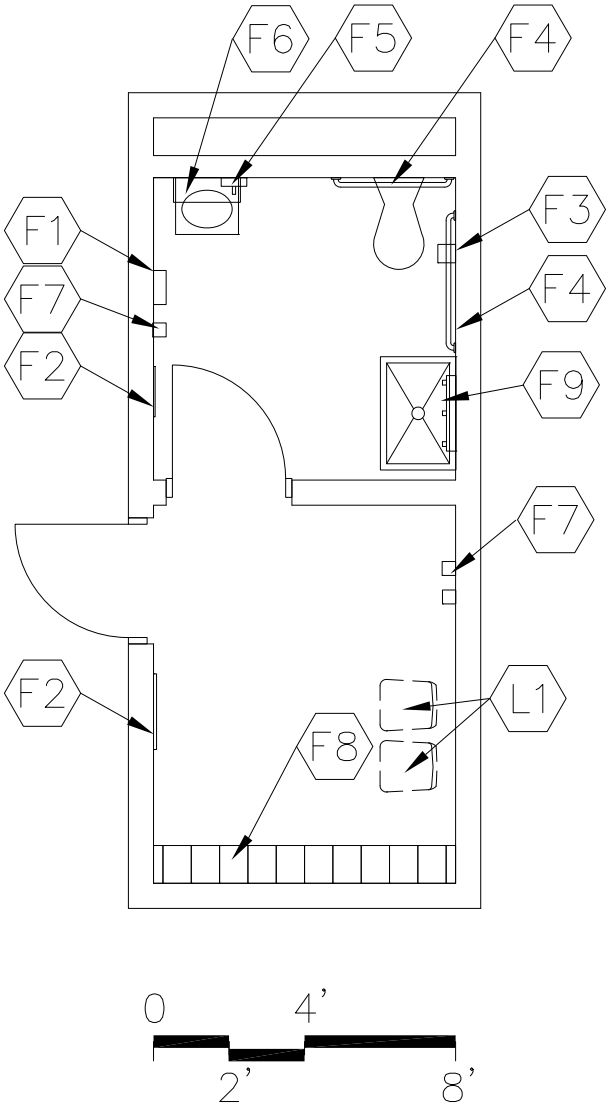
DIETICIAN'S OFFICE
H-FS-2

FINISHES[1]:	Spec. Ref.#
Flooring:	
Linoleum, ET, or sheet vinyl	096500
	096516
Option: Quarry tile or resinous flooring	093000
	096723
Base:	
Resilient base	096500
Option: Quarry tile	093000
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

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	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 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

H-FS-3

FINISHES[1]:	Spec. Ref.#
Flooring:	
ET, sheet vinyl,	096516
	096500
Optional: quarry tile***, resinous flooring***	093000 ***096723***
Base:	
Resilient base	096500
Optional: quarry tile, or	093000
integral vinyl cove base, ***integral resinous***	***096723***
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

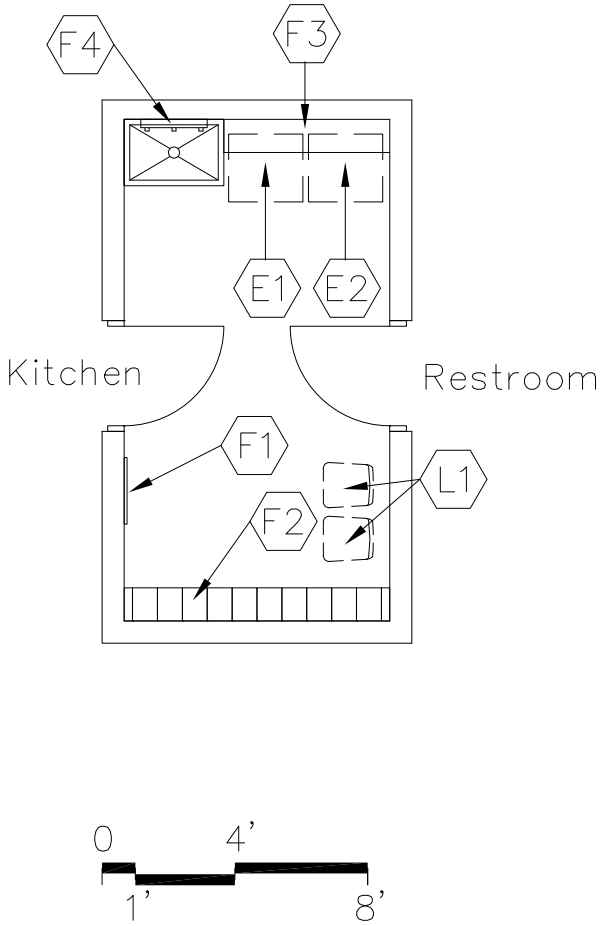
LOOSE FURNISHINGS:

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-***6***	
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, H-FS-1
Restroom, H-FS-3

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 H-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
H-FS-4

FINISHES[1]:	Spec. Ref.#
Flooring:	
Sheet vinyl, rubber, rubber tile, or resinous flooring	096500 096723
Base:	
Resilient base, resinous flooring, or integral vinyl cove base	096500 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

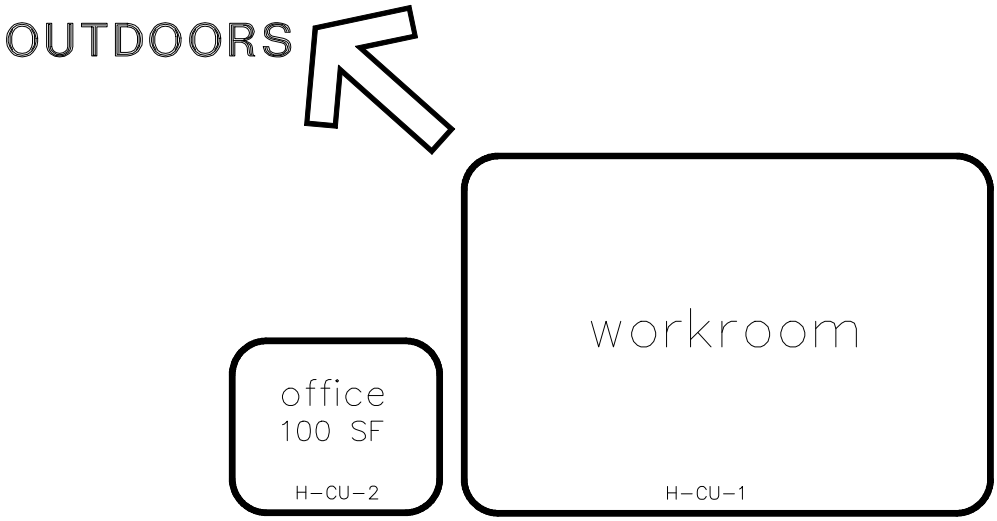
LOOSE FURNISHINGS:
L1 Chairs
Wastebasket

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 high school could be arranged. This is meant only to demonstrate the relationships between various spaces of this area.

Following are the Custodial space plates:

H-CU-1	Workroom
H-CU-2	Custodial Office

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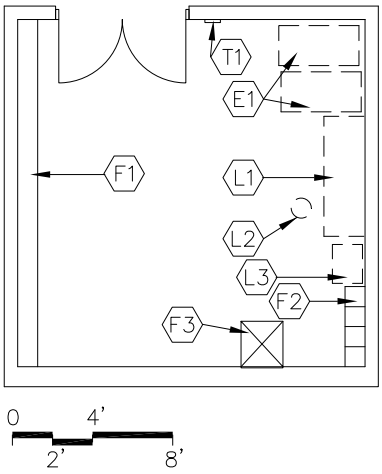
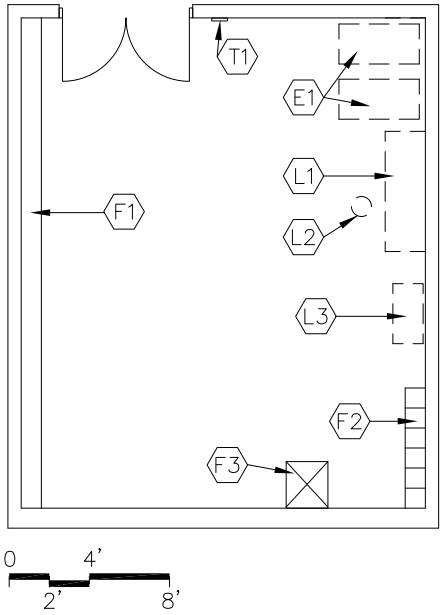
200 SF



400 SF



CAPACITY: N/A
SIZE: 200 - 800 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
H-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

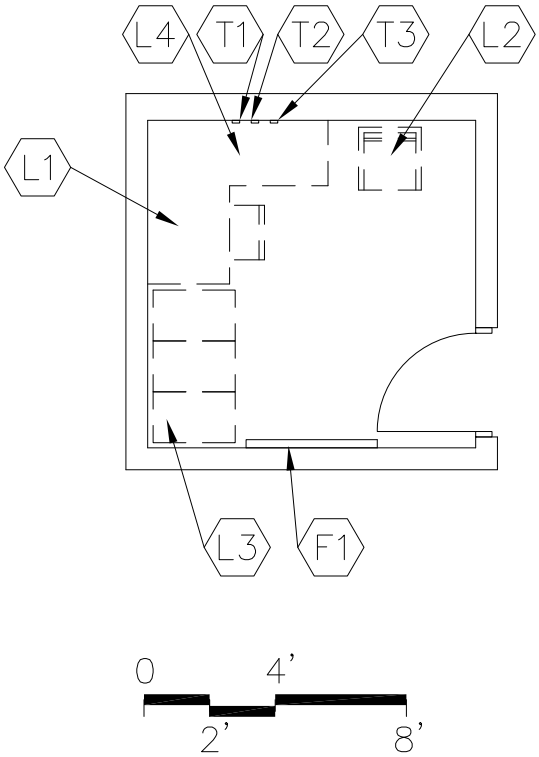
EQUIPMENT:
E1 Recycling bins

FEATURES[1]:	Spec. Ref.#
Fixed Items[2]:	
F1 10' - 24' of open shelving, depths can 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.

100 SF



CAPACITY: N/A
SIZE: 100 - 400 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
H-CU-2

FINISHES[1]:	Spec. Ref.#
Flooring:	
Linoleum,	096516
ET, sheet vinyl, or	096500
resinous flooring,	***096723***
polished concrete finishing, or	033510
colored concrete finishing	033519
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

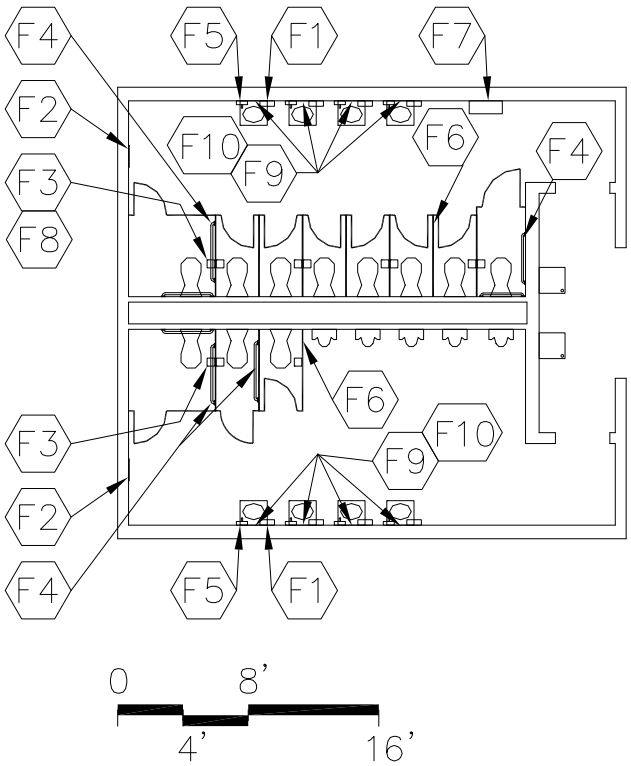
LOOSE FURNISHINGS:
L1 Desk and chair
L2 Visitor chair
L3 File cabinets
L4 Computer desk return
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 4' of tack board (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 general public

SPATIAL RELATIONSHIPS:

- Near student dining area
- Near public use areas, such as media center and gymnasium
- Near academic core area
- Groups of restrooms should be located in several areas throughout the 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 H-BS-10.

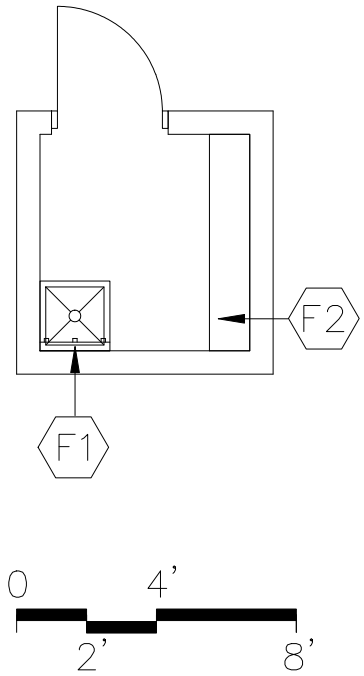
LARGE GROUP RESTROOMS
H-BS-1

FINISHES[1]:	Spec. Ref.#
Flooring:	
Ceramic mosaic tile	093000
Optional: porcelain tile,	093000
rubber, resinous flooring,	096723
or unbacked sheet vinyl	***096500***
with welded seams	
Base:	
Ceramic mosaic tile base	093000
Optional: structural glazed tile,	096616
porcelain tile base,	093000
resinous flooring, or	096723
integral vinyl base	***096500***
Ceiling:	
Suspended, acoustical	095113
Option: Abuse resistant gypsum wallboard	092116
Walls:	
Painted concrete masonry unit	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
Floor drains	Div. 22
Drinking water cooler	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
H-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:

NOTES:

CUSTODIAL CLOSET
H-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:
Shelving (optional)

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

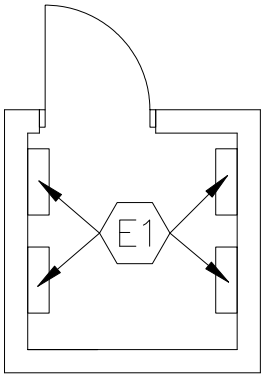
Electronic Safety and Security:
N/A

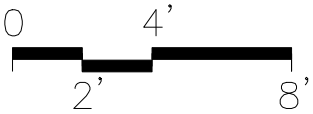
Miscellaneous:
N/A

NOTES:

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

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
H-BS-3

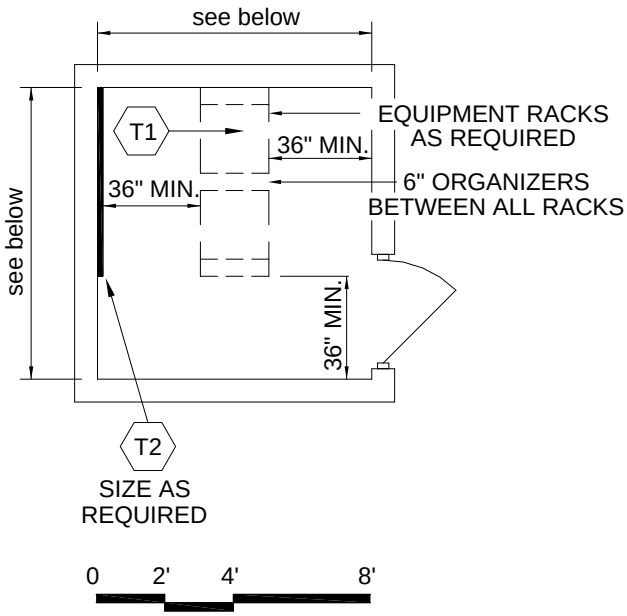
FINISHES[1]:	Spec. Ref.#
Flooring:	
Sealed concrete	033000
Base:	
No base	
Ceiling:	
Exposed structure	---
Walls:	
Unpainted concrete masonry units	042000

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:

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
H-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	

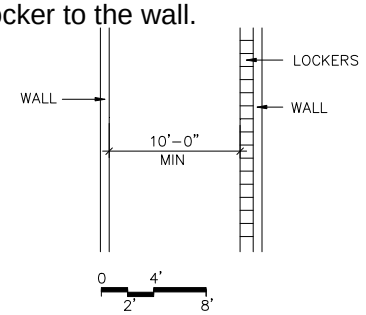
FEATURES[1]:	Spec. Ref.#
Fixed Items:	
N/A	
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Cooling and Exhaust air system	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-6	
1 duplex receptacle	262726
Receptacles 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 1/4” plywood back board	271313
Electronic Safety and Security:	
Security System	281300/281600/282300
Miscellaneous:	
N/A	

NOTES:

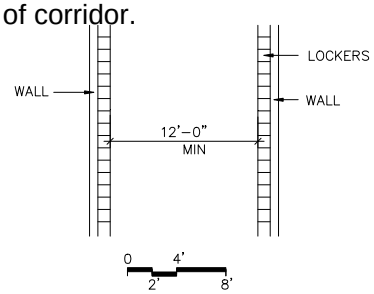
1. Finishes/Features: Refer to Chapter 9 for specification references.

- 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:

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
H-BS-5

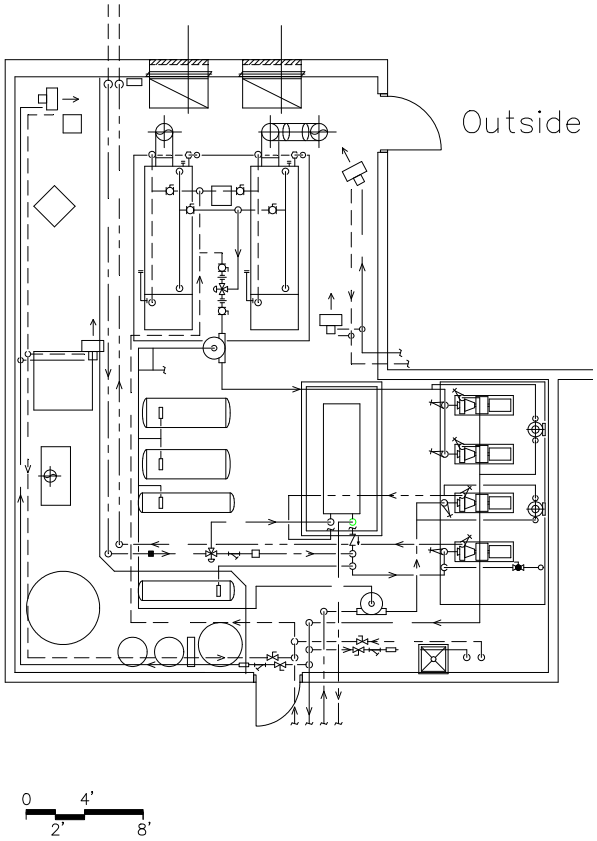
FINISHES[1]:	Spec. Ref.#
Flooring[2]:	
Linoleum, ET, sheet vinyl,	096516
Carpet, carpet tile, rubber,	096500
polished concrete finishing,	096816
or colored concrete finishing	096813
	033510
	033519
Base:	
Resilient base	096500
Optional: structural glazed tile	042000
Ceiling:	
Suspended, acoustical	095113
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
Temperature control 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	271523
Pay phone terminals	271513/273113
Central sound system	275123
Clocks	275313
Wireless access points	271523/272100/272133
Electronic Safety and Security:	
Life safety devices per code	283111
Security System	281300/281600/282300
Miscellaneous:	
Display cases and Directory	

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

Space to be determined by Design Professional.



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

PROGRAM ACTIVITIES:
- Space for mechanical and electrical equipment

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

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

NOTES:

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

MECHANICAL/ELECTRICAL SPACE/DECKS

H-BS-6

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

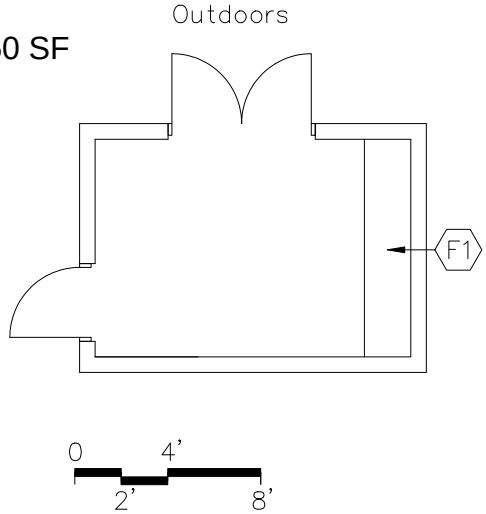
LOOSE FURNISHINGS:
N/A

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
To be determined by Design Professional	
Fire Suppression:	
To be determined by Design Professional	
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	271513/***273123***
Electronic Safety and Security:	
To be determined by Design Professional	
Miscellaneous:	
N/A	

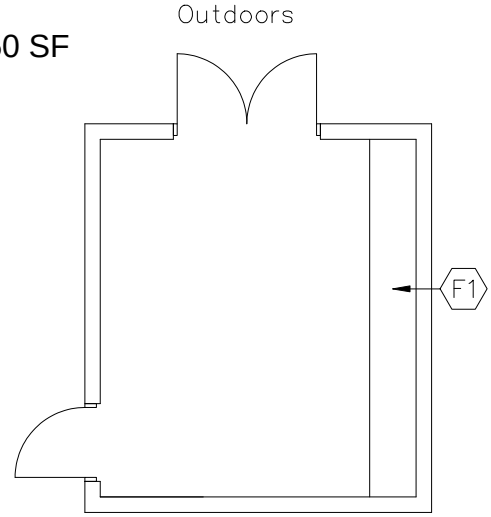
NOTES:

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.

150 SF



250 SF



CAPACITY: N/A
SIZE: 150 - 500 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
H-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 8'-20' 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***	
Duplex receptacles	262726
Communications:	
N/A	
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

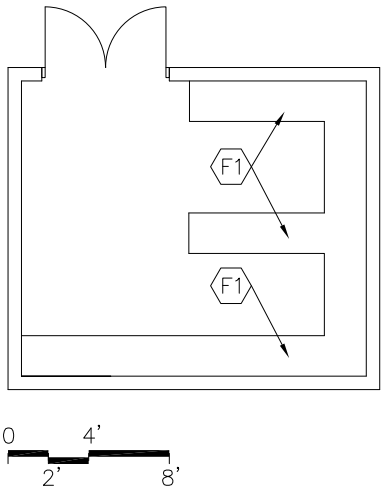
NOTES:

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

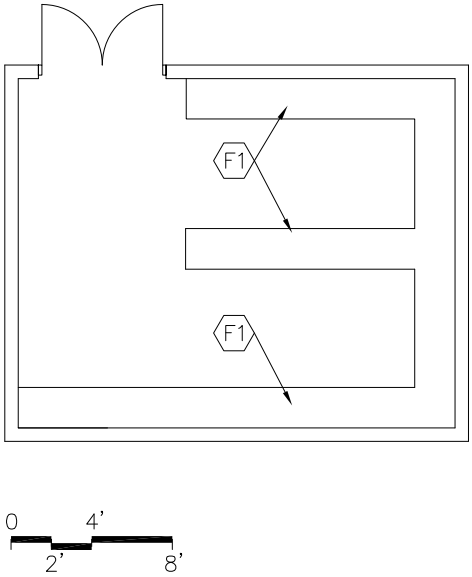
CENTRAL STORAGE AREA
H-BS-8

Space to be determined by Design Professional.

250 SF



400 SF



CAPACITY: N/A
SIZE: 250 - 800 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:

NOTES:

CENTRAL STORAGE AREA

H-BS-8

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

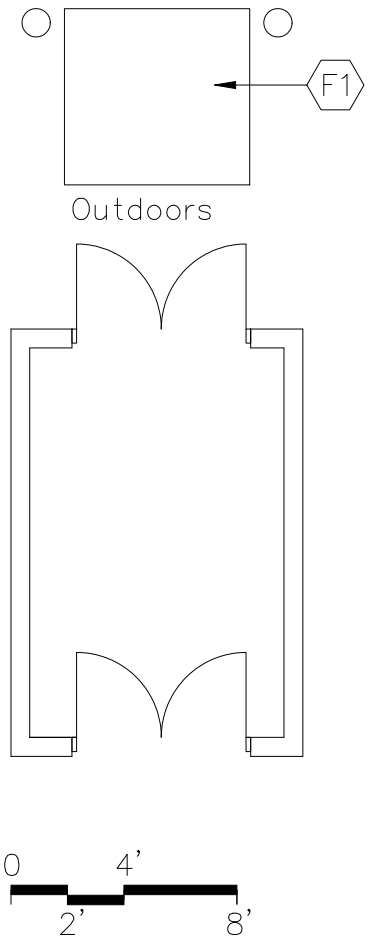
LOOSE FURNISHINGS:
N/A

FEATURES[1]:	Spec. Ref.#
Fixed Items[2]:	
F1 26' - 32' of open shelving (total), 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.

Recycling space to be determined by Design Professional.



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

H-BS-9

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

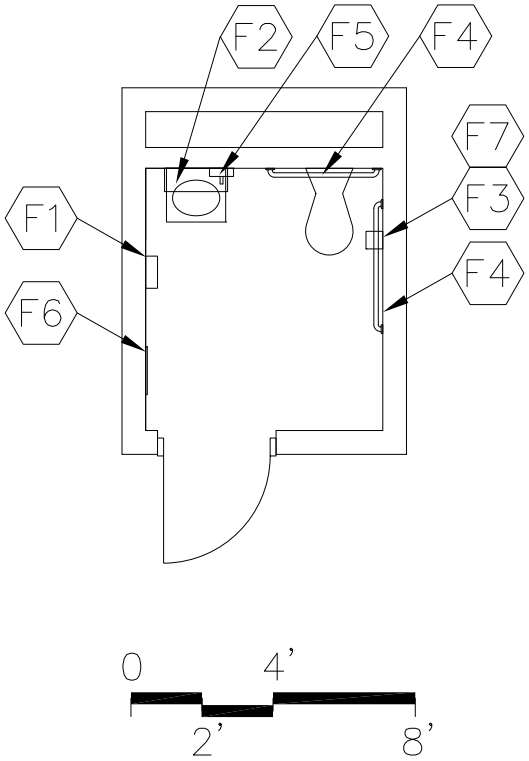
LOOSE FURNISHINGS

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
H-BS-10

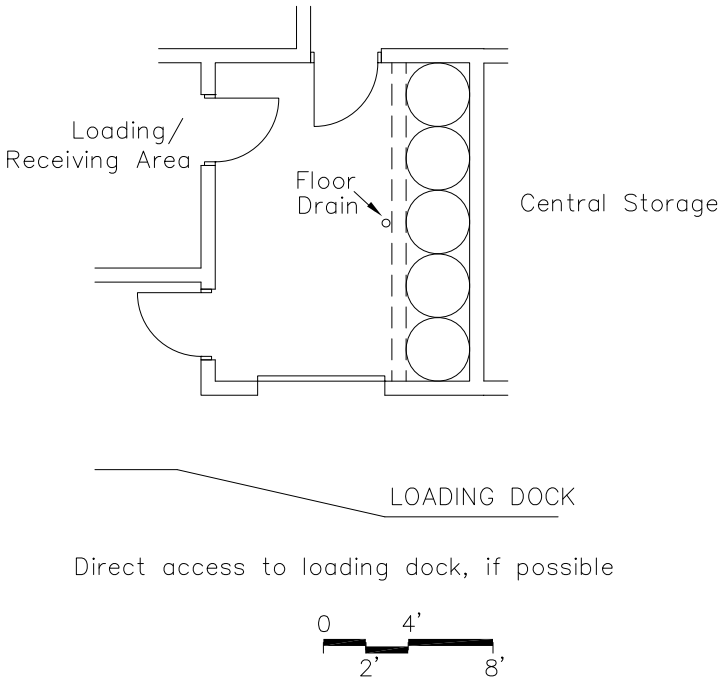
FINISHES[1]:	Spec. Ref.#
Flooring:	
ET, ***or*** sheet vinyl	096500
Optional: quarry tile, or	093000
resinous flooring	096723
Base:	
Resilient base	096500
Optional: quarry tile, resinous	093000
flooring, or integral vinyl cove base	096723
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete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



CAPACITY: N/A
SIZE: 80 - 160 SF

PROGRAM ACTIVITIES:
- Provide recyclable collection for paper, cardboard, glass, plastics and metals.

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

ENVIRONMENTAL CONSIDERATIONS:
N/A

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

NOTES:

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

RECYCLING ROOM
H-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:	
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Floor drain	
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.