

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	<p>This Chapter begins with an overall building diagram showing how the various areas of a school could be arranged. The diagram is meant only to demonstrate the relationships between various parts of the building.</p> <p>Along with the overall building diagram, there are various program area diagrams throughout this chapter which demonstrate how specific spaces may relate to each other within a particular program area.</p>
NO SMOKING SIGNS	<i>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)</i>
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. 5% of floor area for natural light openings is a minimum and is considered to be the masonry or rough opening.
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.

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.

AREA

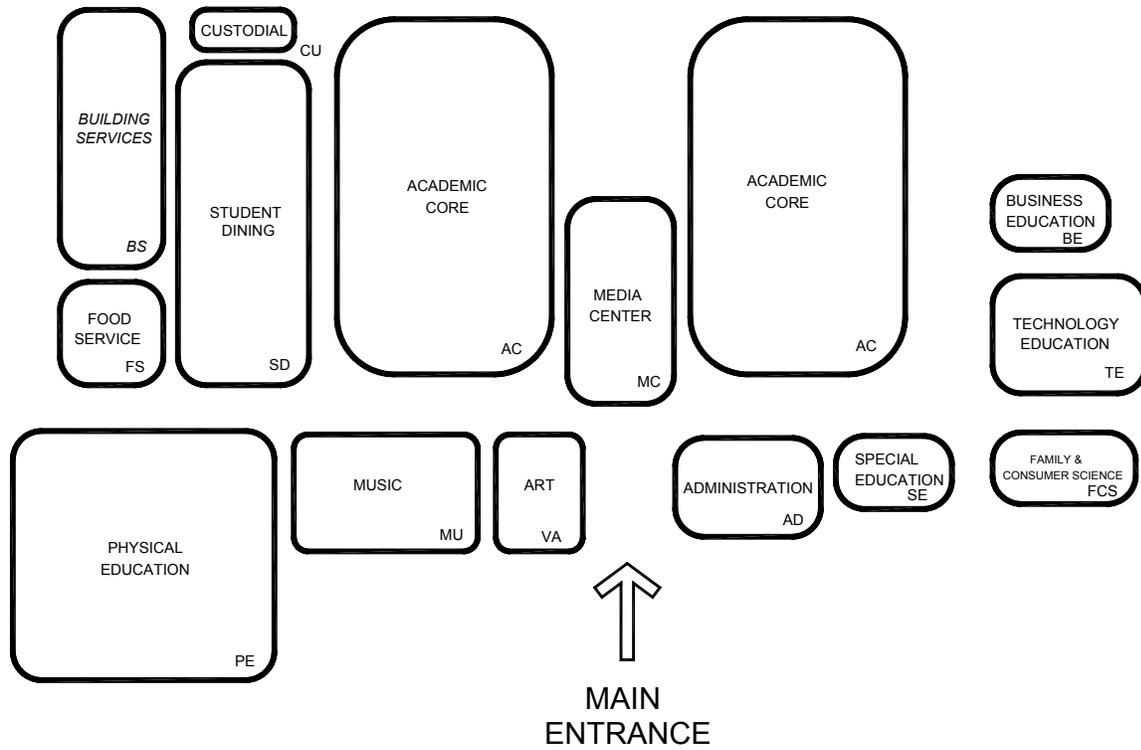
Square foot area given for the room is the necessary area. This area is given in net square feet – defined as the area within the walls of the room.

TECHNOLOGY

The location of overhead projectors in ceilings of spaces where required shall be carefully determined in relation to the projection surface. ***Provide a data drop next to the overhead projector for network connection. See spec 274119. Provide additional A/V connections at teacher workstation to allow connection of computer outputs, etc., that interfaces with the projector. See spec 271543.***

LIGHTING

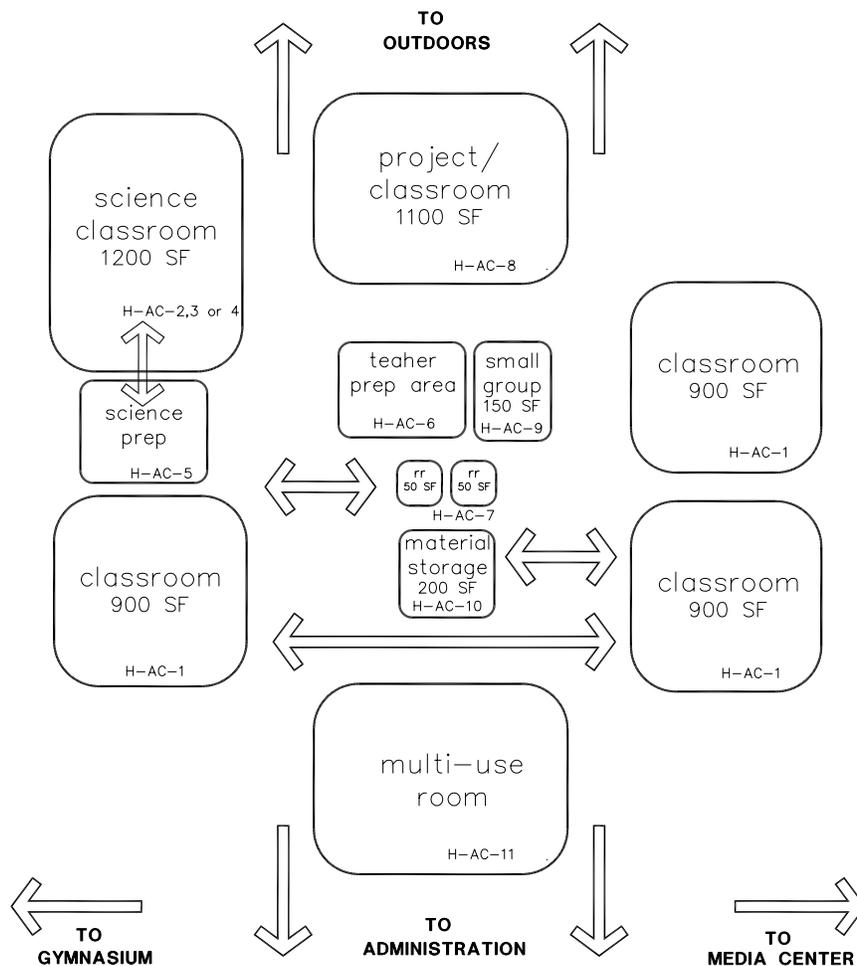
Interior lighting shall be controlled by occupancy sensors, automatic timed lighting controlled system or a combination of both to comply with ASHRAE 90.1. Exterior lighting shall be controlled by photosensor or astronomical time clock to comply with ASHRAE 90.1 to automatically turn lighting off when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



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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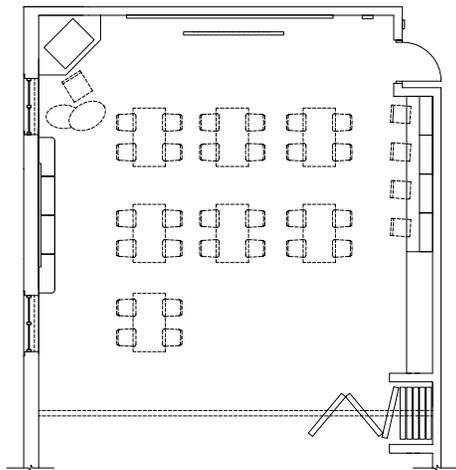
NOTES:

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.

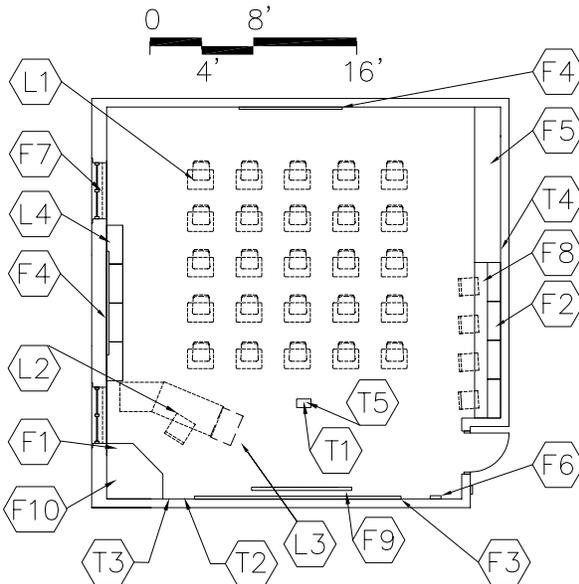
Following are the Academic Core space plates:

- 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

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CLASSROOM WITH OPTIONAL FOLDING WALL



TYPICAL CLASSROOM

CAPACITY:
SIZE:

25 students
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:

- Uniform lighting
- Natural light opening equal to minimum 5% of floor area, with an operable vent
- Environmental sound control -
wall minimum STC 50
ceiling minimum CAC 35, NRC **0.70**

NOTES:

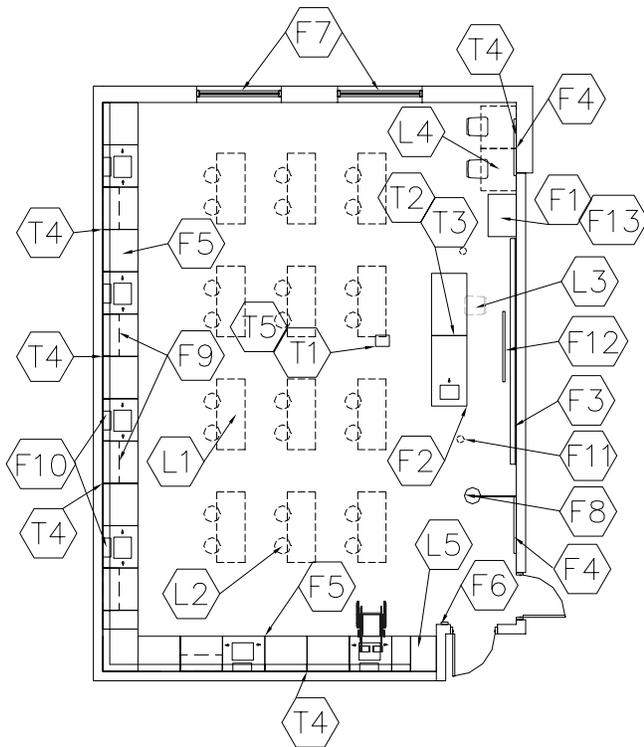
1. Loose furnishings shown represent one of many possible arrangements.
2. Depending upon the educational program of the district, a tall wardrobe may be placed in this classroom or could be placed in a teacher prep area/workroom.

**HIGH SCHOOL CLASSROOM
H-AC-1**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet	096816	F1 3' of tall wardrobe with file drawers	123550
Optional: Vinyl composition tile, linoleum, VET, sheet vinyl, or rubber	096516 096500	F2 Computer work surface (could be loose)	123550
		F3 10'-16' of chalk/marker board	101100
		F4 10'-16' of tack board	101100
<u>Base:</u>		F5 8'-12' of base & wall cabinets	123550
Resilient base	096500	F6 Pencil sharpener support	062000
		F7 Windows with integral blinds	085113
<u>Ceiling:</u>		F8 About 10' of wall cabinets	123550
Suspended, acoustical	095113	F9 Projection screen (optional)	115213
		F10 Technology support casework	123550
<u>Walls:</u>		<u>Fire Suppression:</u>	
Painted concrete masonry units	042000/099100	Fire suppression system	211000
		<u>Plumbing:</u>	
		N/A	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Student desks and chairs		Supply/return air system	Div. 23
L2 Teacher desk or workstation/computer support and chair		Independent temperature control	230923
L3 File cabinet		<u>Electrical:</u>	
L4 9' of low bookcases (fixed or mobile)		Fluorescent lighting:	265100
Wastebasket		Illumination level: See Table 8600-4	
Pencil sharpener		Multilevel switching	262726
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u>	
		T1 1 video port	271533/271543
		T2 1 voice port and phone	271513/273113
		T3 1 data port near teacher workstation	271513
		T4 4 data ports (minimum) for student use	271513
		Clock	275313
		Central sound system	275123
		Sound reinforcement system	275127
		T5 Overhead projector	274119
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		M1 Operable partitions between classrooms are optional	102226

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 become part of the loose furnishings.



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:

- Uniform lighting
- Natural light opening equal to minimum 5% of floor area, with an operable vent
- Environmental sound control -
 wall minimum STC 50
 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.

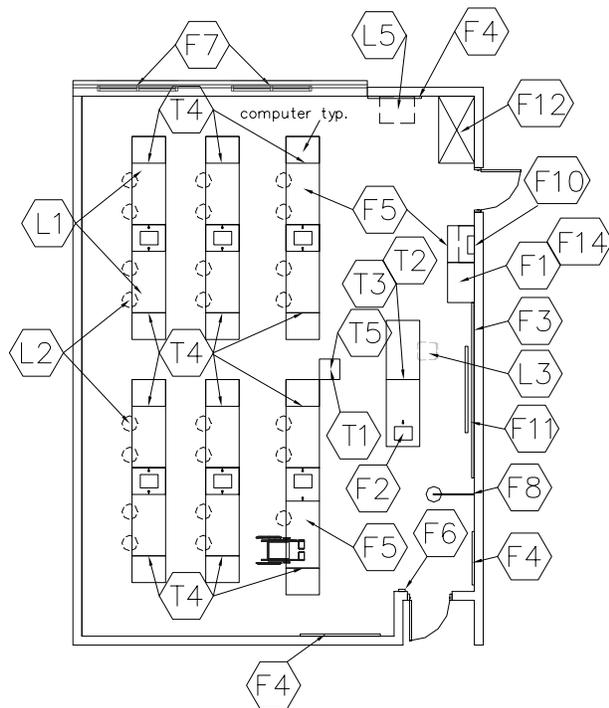
**SCIENCE CLASSROOM - GENERAL/PHYSICS
H-AC-2**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Vinyl composition tile, linoleum, rubber, VET, or sheet vinyl	096500 096516	F1 3' of tall wardrobe with file drawers	123553
		F2 Demonstration table/teacher desk	123553
		F3 10'-16' of chalk/marker board	101100
		F4 10'-16' of tack board	101100
<u>Base:</u>		F5 40'-60' of lab casework with sinks	123553
Resilient base	096500	F6 Pencil sharpener support	062000
		F7 Windows with integral blinds	085113
<u>Ceiling:</u>		F8 Emergency shower/eyewash	224000
Suspended, acoustical	095113	F9 18'-24' of wall cabinets	123553
		F10 Towel dispensers (optional)	102813
<u>Walls:</u>		F11 2 eye hooks for demonstrations(optional)	055000
Painted concrete masonry units	042000/099100	F12 Projection screen (optional)	115213
		F13 Technology support casework	123553
		<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Student work tables		Plumbing connections	
L2 Student stools/chairs			224000/221116/221119
L3 Teacher chair or stool		Emergency shower/eyewash connections	224000
L4 Computer workstation furniture		Gas connections (optional)	226313
L5 File cabinet		Master shutoff for gas	226313
Wastebasket		Compressed air connections(optional)	221500
Pencil sharpener		<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Independent temperature control	230923
		Manual exhaust	Div. 23
L4 could be fixed casework.		<u>Electrical:</u>	
		Fluorescent lighting:	265100
		Illumination level: See Table 8600-4	
		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
		<u>Communications:</u>	
		T1 1 video port	271533/271543
		T2 1 voice port and phone	271513/273113
		T3 1 data port at demonstration table	271513
		T4 4 data ports (minimum) for student use	271513
		Clock	275313
		Central sound system	275123
		Sound reinforcement system	275127
		T5 Overhead projector	274119
		<u>Electronic Safety and Security:</u>	
		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. Master gas shutoff valve shall be clearly labeled, easily accessible, and immediately operable by staff.



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:

- Uniform lighting
- Natural light opening equal to minimum 5% of floor area, with an operable vent
- Environmental sound control -
wall minimum STC 50
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.

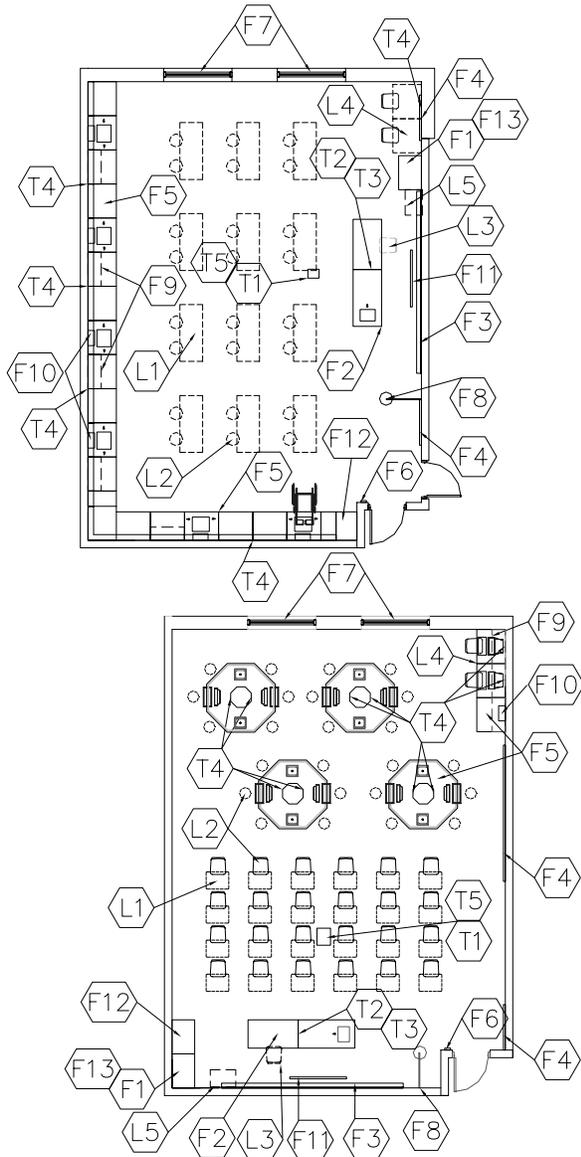
**SCIENCE CLASSROOM - CHEMISTRY
H-AC-3**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Vinyl sheet flooring, linoleum, rubber, VET, or vinyl composition tile	096500 096516	F1 3' of tall wardrobe with file drawers	123553
		F2 Demonstration table/teacher desk	123553
		F3 10'-16' of chalk/marker board	101100
		F4 10'-16' of tack board	101100
		F5 40'-60' lab casework with sinks	123553
<u>Base:</u>		F6 Pencil sharpener support	062000
Resilient base	096500	F7 Windows with integral blinds	085113
		F8 Emergency shower/eyewash	224000
<u>Ceiling:</u>		F9 18'-24' of wall cabinets (optional)	123553
Suspended, acoustical	095113	F10 Towel dispensers (optional)	102813
		F11 Projection screen (optional)	115213
<u>Walls:</u>		F12 Fume hood	115313
Painted concrete masonry units	042000/099100	F13 Tall cabinet for microscopes(optional)	123550
		F14 Technology support casework	123550
		<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Student work tables		Plumbing connections	224000/221116/221119
L2 Student stools/chairs		Emergency shower/eyewash connections	224000
L3 Teacher chair or stool		Master shut-off for gas	226313
L4 Computer workstation furniture		Gas connections	226313
L5 File cabinet		Compressed air connections (optional)	221500
Wastebasket		Acid waste piping	221316
Pencil sharpener		Neutralization tank	221323
		<u>HVAC:</u>	
L4 Could be fixed casework		Supply/return air system	Div. 23
		Independent temp control	230923
		Manual exhaust	Div. 23
		Exhaust for fume hood	Div. 23
		<u>Electrical:</u>	
		Fluorescent lighting:	265100
		Illumination level: See Table 8600-4	
		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
		<u>Communications:</u>	
		T1 1 video port	271533/271543
		T2 1 voice port and phone	271513/273113
		T3 1 data port at demonstration table	271513
		T4 4 data ports (minimum) for student use	271513
		Central sound system	275123
		Clock	275313
		Sound reinforcement system	275127
		T5 Overhead projector	274119
		<u>Electronic Safety and Security:</u>	
		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. Master gas shutoff valve shall be clearly labeled, easily accessible, and immediately operable by staff.



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:

- Uniform lighting
- Natural light opening equal to minimum 5% of floor area, with an operable vent
- Environmental sound control - wall minimum STC 50 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**

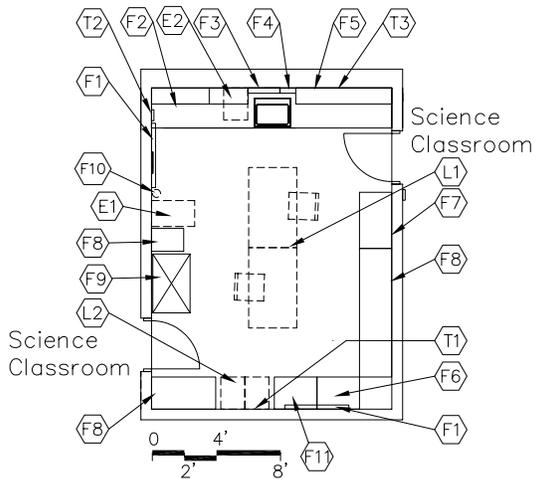
CHAPTER 6: HIGH SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Vinyl composition tile, linoleum,	096500	F1 3' of tall wardrobe with file drawers	123553
Rubber, VET or sheet vinyl	096516	F2 Demonstration table/teacher desk	123553
		F3 10'-16' of chalk/marker board	101100
		F4 10'-16' of tack board	101100
<u>Base:</u>		F5 40'-60' of lab casework with sinks	123553
Resilient base	096500	F6 Pencil sharpener support	062000
		F7 Windows with integral blinds	085113
<u>Ceiling:</u>		F8 Emergency shower/eyewash	224000
Suspended, acoustical	095113	F9 18'-24' of wall cabinets (total)	123553
		F10 Towel dispensers (optional)	102813
<u>Walls:</u>		F11 Projection screen (optional)	115213
Painted concrete masonry units	042000/099100	F12 Tall cabinets (optional)	123550
		F13 Technology support casework	123550
		<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Student work tables		Plumbing connections	224000/221116/221119
L2 Student stools/chairs		Emergency shower/eyewash	224000
L3 Teacher chair or stool		connections	226313
L4 Computer workstation furniture		Master shut-off for gas	226313
L5 File cabinet		Gas connections	221500
Wastebasket		Compressed air connections (optional)	221316
Pencil sharpener		Acid waste piping	221323
		Neutralization tank (optional)	
L4 could be fixed casework.		<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Independent temperature ctrl	230923
		Manual exhaust	Div. 23
		<u>Electrical:</u>	
		Fluorescent lighting:	265100
		Illumination level: See Table 8600-4	
		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
		<u>Communications:</u>	
		T1 1 video port	271533/271543
		T2 1 voice port and phone	271513/273113
		T3 1 data port at demonstration table	271513
		T4 4 data ports (minimum)for student use	271513
		Central sound system	275123
		Clock	275313
		Sound reinforcement system	275127
		T5 Overhead projector	274119
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111

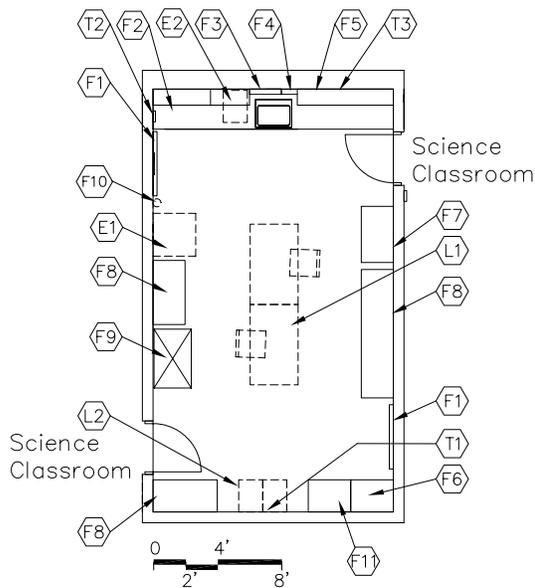
NOTES:

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. Master gas shutoff valve shall be clearly labeled, easily accessible, and immediately operable by staff.

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:

- Uniform lighting
- 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**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Vinyl sheet flooring, linoleum, rubber, VET, or vinyl composition tile	096516 096500	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 8'-15' of wall cabinets	123553
<u>Base:</u>		F6 Storage cabinets for acids, Ventilated (optional)	123553
Resilient base	096500	F7 Storage cabinets for flammables(optional)	123553
		F8 8'-16' of tall storage cabinets	123553
<u>Ceiling:</u>		F9 Fume hood (optional)	123553
Suspended, acoustical	095113	F10 Emergency eyewash (if applicable)	224000
		F11 Chemical storage cabinets with acid resistant lining	123553
<u>Walls:</u>			
Painted concrete masonry units	042000/099100	<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Work tables with chemical-resistant top		Plumbing connections	224000/221116/221119
L2 2 file cabinets		Acid waste system	Div. 23
Wastebasket		Gas connections	226313
		Compressed air connections(optional)	221500
<u>EQUIPMENT</u>		Access to neutralization tank	221323
E1 Refrigerator/freezer (optional)		<u>HVAC:</u>	
E2 Dishwasher (optional)		Supply/return air system	Div. 23
		Independent temperature control	230923
		Manual exhaust	Div. 23
		24 hour exhaust for acid storage cabinet	Div. 23
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting:	265100
		Illumination level: See Table 8600-4	
		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
		<u>Communications:</u>	
		T1 1 video port	271533/271543
		T2 1 voice port and phone	271513/273113
		T3 1 data port	271513
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Fume hood through wall if adjacent to chemistry	

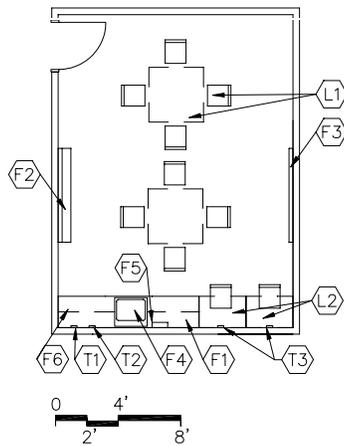
NOTES:

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

**TEACHER PREP AREA/WORKROOM
H-AC-6**

CHAPTER 6: HIGH SCHOOL

300 SF



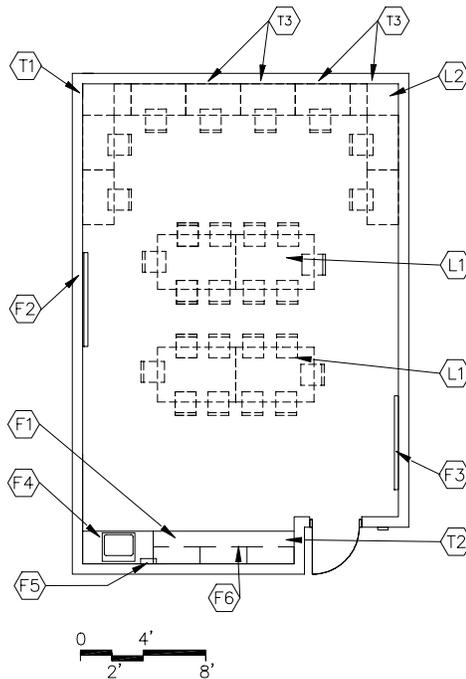
PROGRAM ACTIVITIES:

- Teachers and other staff members hold team meetings and prepare for class
- Professional interaction should be encouraged to improve communication, professional development, and team building.

SPATIAL RELATIONSHIPS:

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

600 SF



ENVIRONMENTAL CONSIDERATIONS:

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

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

NOTES:

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

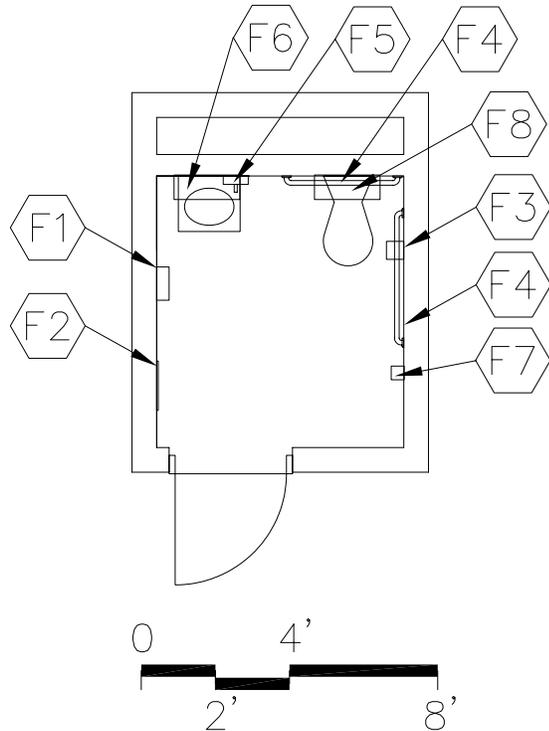
**TEACHER PREP AREA/WORKROOM
H-AC-6**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Fixed Items²:</u>			
Flooring:		F1	
Carpet, VCT, VET, linoleum, vinyl sheet, or rubber	096816 096500 096516	6' - 9' of base cabinets (could be bookcases)	123550
Base:		F2	
Resilient base	096500	6'-8' of chalk/marker board	101100
Ceiling:		F3	
Suspended, acoustical	095113	4'-8' of tack board	101100
Walls:		F4	
Painted concrete masonry units	042000/099100	3' sink base cabinet	123550
		F5	
		Towel dispenser (optional)	102813
		F6	
		6' - 9' of wall cabinets	123550
		<u>Fire Suppression:</u>	
		Fire suppression systems	211000
		<u>Plumbing:</u>	
		Sink	224000
		Plumbing connections	224000/221116/221119
		<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Independent temperature control	230923
		<u>Electrical:</u>	
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		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
		<u>Communications:</u>	
		T1	1 video port 271533/271543
		T2	1 voice port and phone 271513/273113
		T3	2 - 8 data ports near workstations 271513
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Copier by school district	
<u>LOOSE FURNISHINGS:</u>			
L1 Tables and chairs			
L2 Computer workstation furniture			
Wastebasket			
L2 could be fixed casework.			

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:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY: 1 person
SIZE: 50 SF

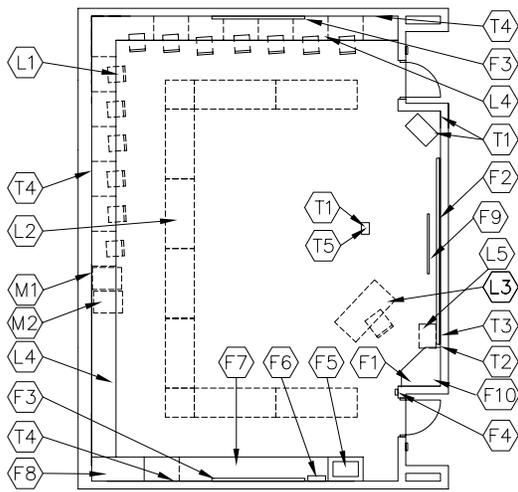
NOTES:

**INDIVIDUAL RESTROOM
H-AC-7**

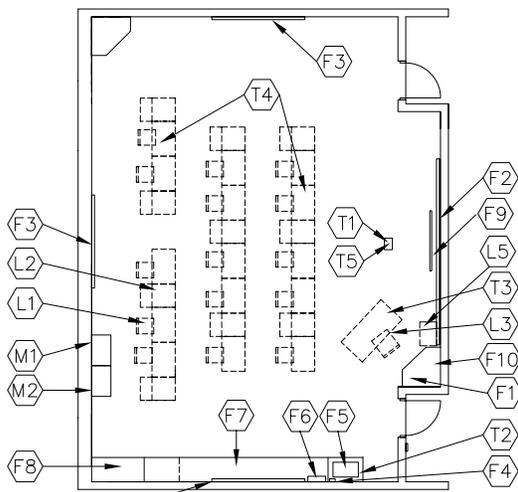
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Linoleum, rubber, VET, or sheet vinyl	096516	F1 Towel dispenser	102813
Optional: Ceramic mosaic tile, porcelain tile, or resinous flooring	096500	F2 24" x 60" mirror	102813
	093000	F3 Toilet tissue holder	102813
	096723	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
<u>Base:</u>		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Optional: Ceramic mosaic tile, Porcelain tile, resinous flooring, or integral vinyl cove base	093000		
	096723		
<u>Ceiling:</u>		<u>Plumbing:</u>	
Suspended, acoustical	095113	Wall-mounted water closet	224000
		Wall-mounted lavatory	224000
<u>Walls:</u>		Plumbing connections	224000/221116/221119
Painted concrete masonry units	042000/099100		
		<u>HVAC:</u>	
<u>LOOSE FURNISHINGS:</u>		Exhaust air system	Div. 23
Wastebasket		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



PERIMETER WORKSTATION LAYOUT



FREE-STANDING WORKSTATIONS



CAPACITY:
SIZE:

25 students
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:

- Uniform lighting with 80% visual comfort probability level
- Environmental sound control -
wall minimum STC 50
ceiling minimum CAC 35, NRC **0.70**
- Flexibility of space

NOTES:

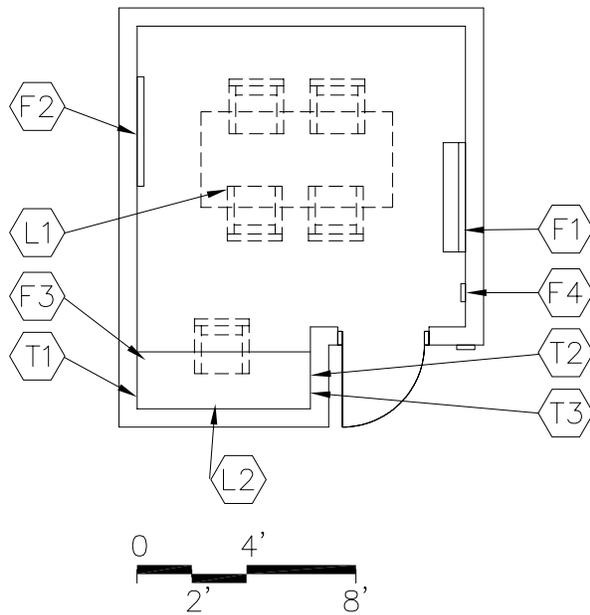
1. Loose furnishings shown represent two of many possible arrangements.
2. Depending upon the educational program of the district, a tall wardrobe may be placed in this classroom or could be placed in a teacher prep area/workroom.

**PROJECT/CLASSROOM
H-AC-8**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet	096816	F1 3' of tall wardrobe with file drawers	123550
Optional: vinyl composition tile, VET, sheet vinyl, linoleum, or rubber	096500 096516	F2 8'-16' of chalk/marker board	101100
		F3 8'-16' of tackboard	101100
		F4 Pencil sharpener support	062000
		F5 3' sink base cabinet (optional)	123550
<u>Base:</u>		F6 Towel dispenser (optional)	102813
Resilient base	096500	F7 4'-12' of base cabinets	123550
		F8 5'-8' of tall storage cabinets (optional)	123550
<u>Ceiling:</u>		F9 Projection screen (optional)	115213
Suspended, acoustical	095113	F10 Technology support casework	123550
<u>Walls:</u>		<u>Fire Suppression:</u>	
Painted concrete masonry units	042000/099100	Fire suppression system	211000
		<u>Plumbing:</u>	
		N/A	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Student chairs		Supply/return air system	Div. 23
L2 Work tables		Independent temperature control	230923
L3 Teacher desk or workstation/computer support and chair		<u>Electrical:</u>	
L4 Computer workstation furniture		Fluorescent lighting: Parabolic lenses	265100
L5 File cabinet		Illumination level: See Table 8600-4	
Wastebasket		Multilevel switching	262726
Pencil sharpener		4 duplex receptacles	262726
L4 could be fixed casework.		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u>	
		T1 1 video port	271533/271543
		T2 1 voice port and phone	271513/273113
		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 Overhead projector	274119
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		The following items are to be funded by the school district:	
		M1 Classroom area network file server	
		M2 Printer	

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.



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Near academic core classrooms

ENVIRONMENTAL CONSIDERATIONS:

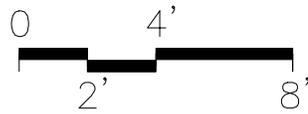
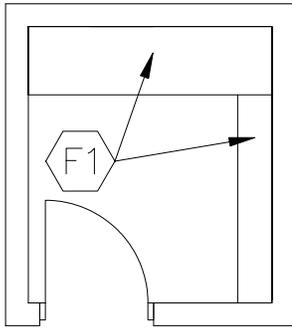
- Uniform lighting
- Environmental sound control -
wall minimum STC 50
ceiling minimum CAC 35, NRC **0.70**

CAPACITY: 4 - 5 students
SIZE: 150 SF

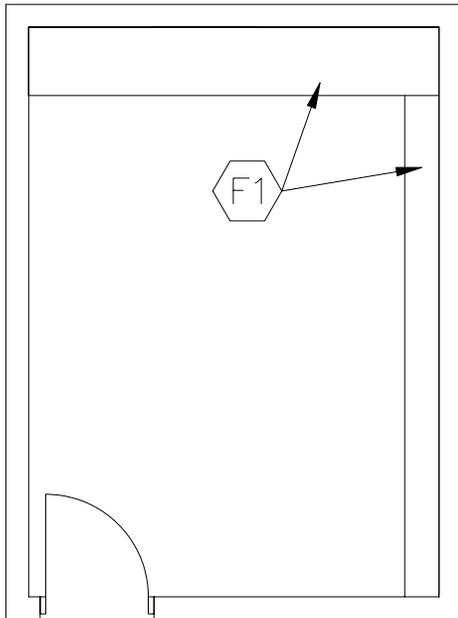
NOTES:

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

50 SF



250 SF



PROGRAM ACTIVITIES:

- Storage of supplies, textbooks, and equipment

SPATIAL RELATIONSHIPS:

- Near teacher prep area/workroom

ENVIRONMENTAL CONSIDERATIONS:

N/A

CAPACITY:

N/A

SIZE:

50 - 250 SF

NOTES:

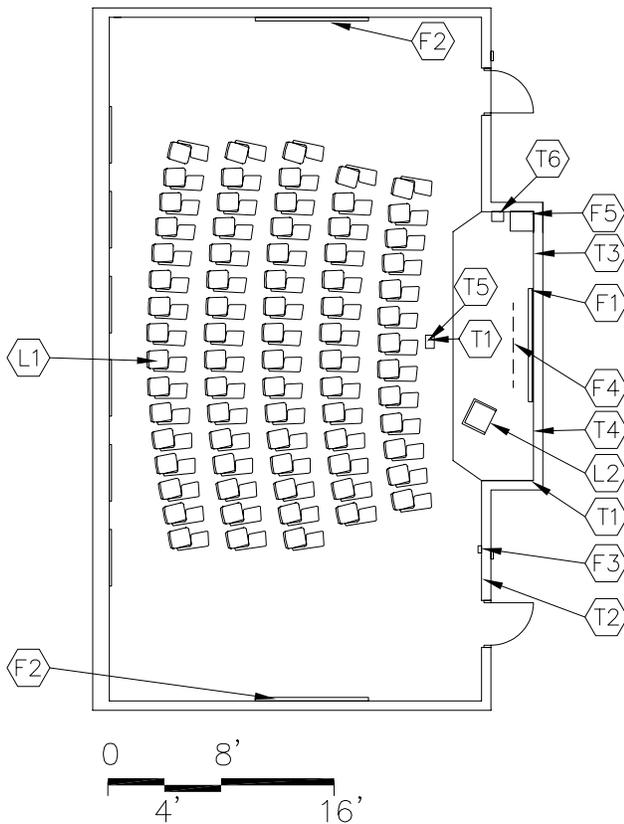
**INSTRUCTIONAL MATERIAL STORAGE
H-AC-10**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Vinyl composition tile	096500	F1 30' of open shelving	
		depths may vary (fixed or loose)	123550
Base:		Option: mobile storage shelving	105626
Resilient base	096500		
Ceiling:		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
Walls:		<u>Plumbing:</u>	
Painted concrete masonry	042000/099100	N/A	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
N/A		To be determined by Design Professional	
		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



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:

- Uniform lighting
- Natural light opening equal to 5% of floor area, with an operable vent
- Environmental sound control -
 wall minimum STC 50
 ceiling minimum CAC 35, NRC **0.70**

NOTES:

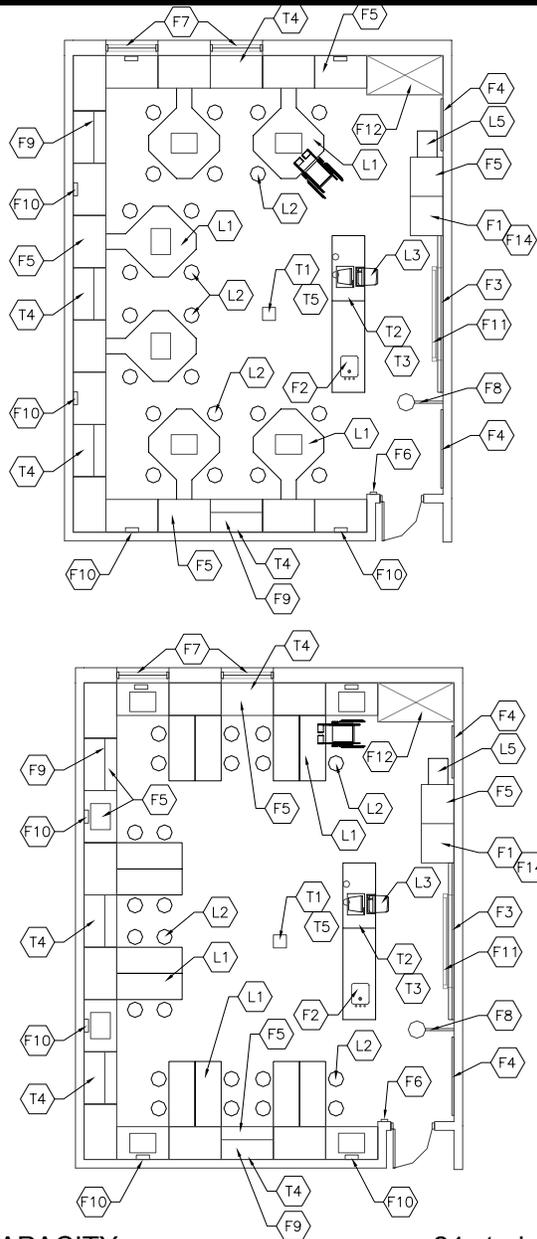
1. Loose furnishings shown represent one of many possible arrangements.

**MULTI-USE ROOM
H-AC-11**

	Spec. Ref.#	<u>FEATURES</u> ¹ :	Spec. Ref.#
<u>FINISHES</u> ¹ :		<u>Fixed Items:</u>	
Flooring:		F1 8'-12' of chalk/marker board	101100
Carpet	096816	F2 8'-16' of tack board	101100
Base:		F3 Pencil sharpener support	062000
Resilient base	096500	F4 Projection screen (optional)	115213
Ceiling:		F5 Technology support casework	123550
Suspended, acoustical	095113	<u>Fire Suppression:</u>	
Walls:		Fire suppression system	211000
Painted concrete masonry units	042000 /099100	<u>Plumbing:</u>	
Acoustical wall treatment	098000	N/A	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Student desks and chairs		Supply/return air system	Div. 23
L2 Podium / console (optional)		Independent temperature control	230923
Portable risers		<u>Electrical:</u>	
Wastebasket		Fluorescent lighting:	265100
Pencil sharpener		Illumination level: See Table 8600-4	
		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
		<u>Communications:</u>	
		T1 2 video ports	271533/271543
		T2 1 voice port and phone	271513/273113
		T3 1 data port (minimum)	271513
		T4 1 port to input local computer to monitor	271513
		Clock	275313
		Central sound system	275123
		T5 Overhead projector	274119
		T6 Student Dining/Cafeteria sound	
		reinforcement system	275122
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



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:

- Uniform lighting
- Natural light opening equal to minimum 5% of floor area, with an operable vent
- Environmental sound control - wall minimum STC 50 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.

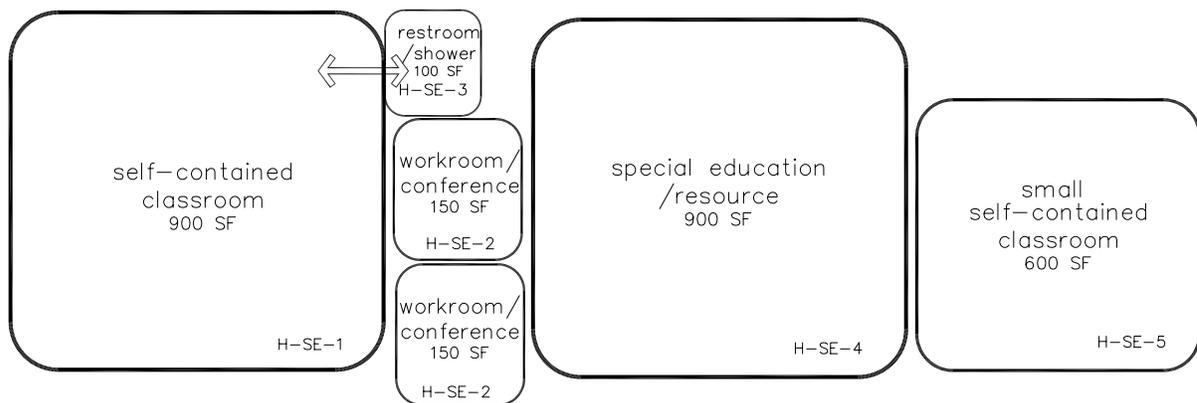
**SCIENCE LABORATORY
H-AC-12**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Vinyl sheet flooring, linoleum, rubber, VET, or vinyl composition tile	096500 096516	F1 3' of tall wardrobe with file drawers	123553
		F2 Demonstration table/teacher desk	123553
		F3 10'-16' of chalk/marker board	101100
		F4 4'- 6' of tack board	101100
		F5 40'-60' lab casework with sinks	123553
<u>Base:</u>		F6 Pencil sharpener support	062000
Resilient base	096500	F7 Windows with integral blinds	085113
		F8 Emergency shower/eyewash	224000
<u>Ceiling:</u>		F9 18'-24' of wall cabinets (optional)	123553
Suspended, acoustical	095113	F10 Towel dispensers (optional)	102813
		F11 Projection screen (optional)	115213
<u>Walls:</u>		F12 Fume hood	115313
Painted concrete masonry units	042000/099100	F13 Tall cabinet for microscopes(optional)	123550
		F14 Technology support casework	123550
		<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Student work tables		Plumbing connections	224000/221116/221119
L2 Student stools/chairs		Emergency shower/eyewash connections	224000
L3 Teacher chair or stool		Master shut-off for gas	226313
L4 Computer workstation furniture		Gas connections	226313
L5 File cabinet		Compressed air connections (optional)	221500
Wastebasket		Acid waste piping	221316
Pencil sharpener		Neutralization tank	221323
L4 Could be fixed casework		<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Independent temp control	230923
		Manual exhaust	Div. 23
		Exhaust for fume hood	Div. 23
		<u>Electrical:</u>	
		Fluorescent lighting:	265100
		Illumination level: See Table 8600-4	
		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
		<u>Communications:</u>	
		T1 1 video port	271533/271543
		T2 1 voice port and phone	271513/273113
		T3 1 data port at demonstration table	271513
		T4 4 data ports (minimum) for student use	271513
		Central sound system	275123
		Clock	275313
		Sound reinforcement system	275127
		T5 Overhead projector	274119
		<u>Electronic Safety and Security:</u>	
		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. Master gas shutoff valve shall be clearly labeled, easily accessible, and immediately operable by staff.



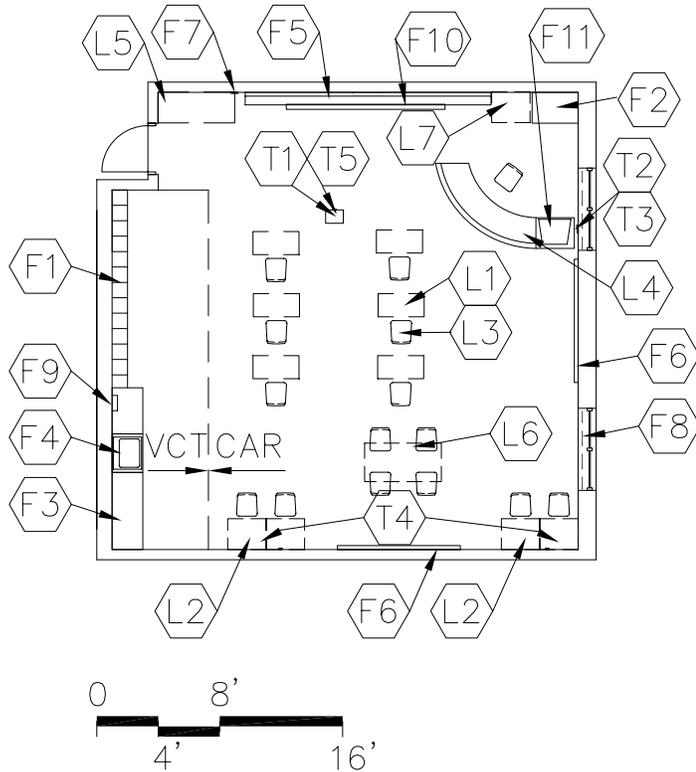
NOTES:

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:

- Uniform lighting
- Natural light opening equal to minimum 5% of floor area, with an operable vent
- Environmental sound control - wall minimum STC 50 ceiling minimum CAC 35, NRC **0.70**
- Resilient and stain-resistant floor covering
- Special consideration for wheelchair access and physical accessibility needs (ADA)

NOTES:

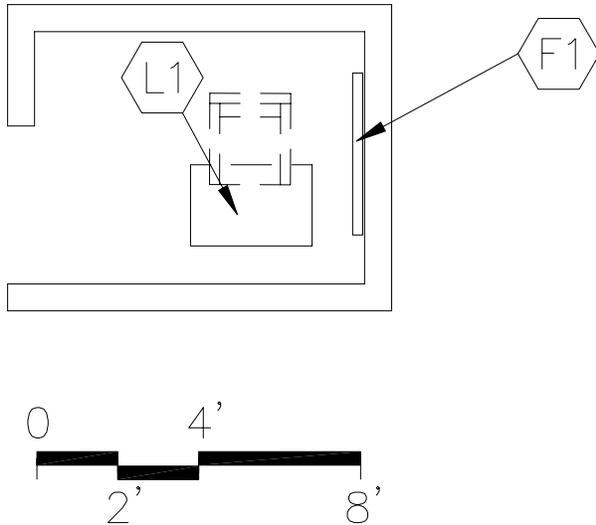
1. Loose furnishings shown represent one of many possible arrangements.
2. Depending upon the educational program of the district, a tall wardrobe may be located in this classroom or could be placed in a workroom/conference area.
3. See Chapter 1, page 1110-16 for specific areas needed for each disability.

**SELF-CONTAINED CLASSROOM
H-SE-1**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Combination carpet	096816	F1 Open casework – coats and personal items	123550
with resilient options	096500	with wall cabinets above	123550
Optional: All vinyl composition tile,	096516	F2 3' of tall wardrobe w/file drawers	123550
VCTT, VET, sheet vinyl, linoleum,		F3 8'-10' of base & wall cabinets	123550
or rubber		F4 3' sink base cabinet	123550
		F5 12'-16' of chalk/marker board	101100
		F6 12'-16' of tack board	101100
		or tackable wall surface or combination	
<u>Base:</u>		F7 Pencil sharpener support	062000
Resilient base	096500	F8 Windows with integral blinds	085113
		F9 Towel dispenser (optional)	102813
<u>Ceiling:</u>		F10 Projection screen (optional)	115213
Suspended, acoustical	095113	F11 Technology support casework	123550
		F12 Mirror (optional)	102813
		F13 Tall storage cabinet(optional)	123550
<u>Walls:</u>		<u>Fire Suppression:</u>	
Painted concrete masonry units		Fire suppression system	211000
	042000/099100	<u>Plumbing:</u>	
		Sink with drinking fountain	224000
		Plumbing connections	224000/221116/221119
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Student desks/tables		Supply/return air system	Div. 23
L2 Computer workstation furniture		Independent temperature control	230923
L3 Student chairs		<u>Electrical:</u>	
L4 Teacher workstations/computer support		Fluorescent lighting	265100
and chair		Illumination level: See Table 8600-4	
L5 8'-10' of low bookcases (fixed or mobile)		Multilevel switching	262726
L6 Reading table		4 duplex receptacles	262726
L7 File cabinet		Double duplex receptacle adjacent to	
Wastebasket		each data and video port	262726
Pencil sharpener		<u>Communications:</u>	
		T1 1 video port	271533/271543
		T2 1 voice port and phone	271513/273113
		T3 1 data port	
		near teacher workstation	271513
		T4 4 data ports (minimum)	
		for student use	271513
		Clock	275313
		Sound reinforcement system	275127
		Central sound system	275123
		T5 Overhead projector	274119
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
<u>EQUIPMENT(optional)</u>		<u>Miscellaneous:</u>	
E1 Washer and dryer		N/A	
E2 Small refrigerator			
E3 Range			
E4 Oven			
E5 Microwave			

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.

**PROGRAM ACTIVITIES:**

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY: 1 - 2 persons
SIZE: 150 SF

NOTES:

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

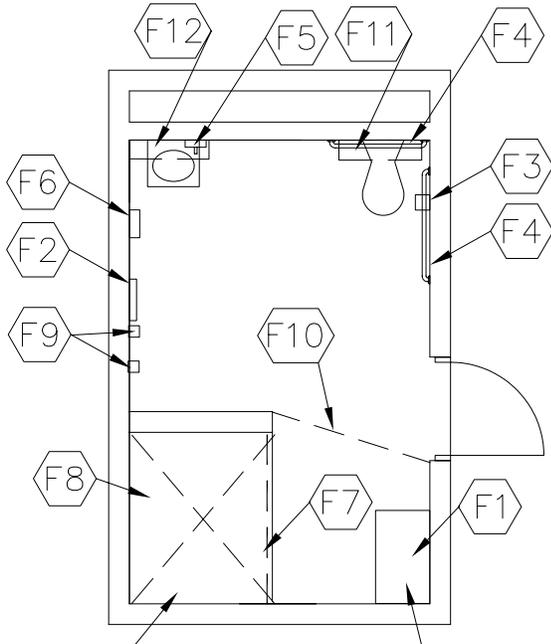
WORKROOM/CONFERENCE
H-SE-2 (Quiet Area)

CHAPTER 6: HIGH SCHOOL

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

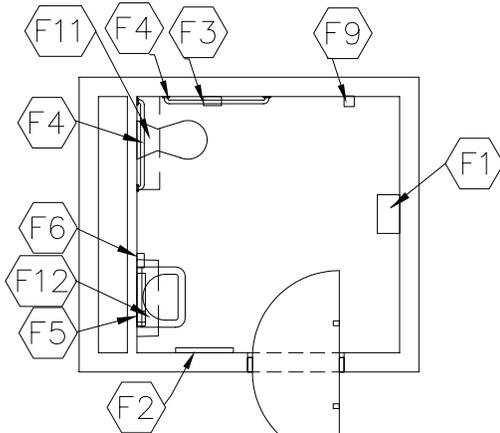
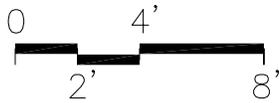
NOTES:

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



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

Changing Area.
Storage of supplies
for health needs.



CAPACITY:
SIZE:

1 - 2 persons
100 SF

PROGRAM ACTIVITIES:

- Changing area
- Toilet / shower needs

SPATIAL RELATIONSHIPS:

- Next to self-contained classroom

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

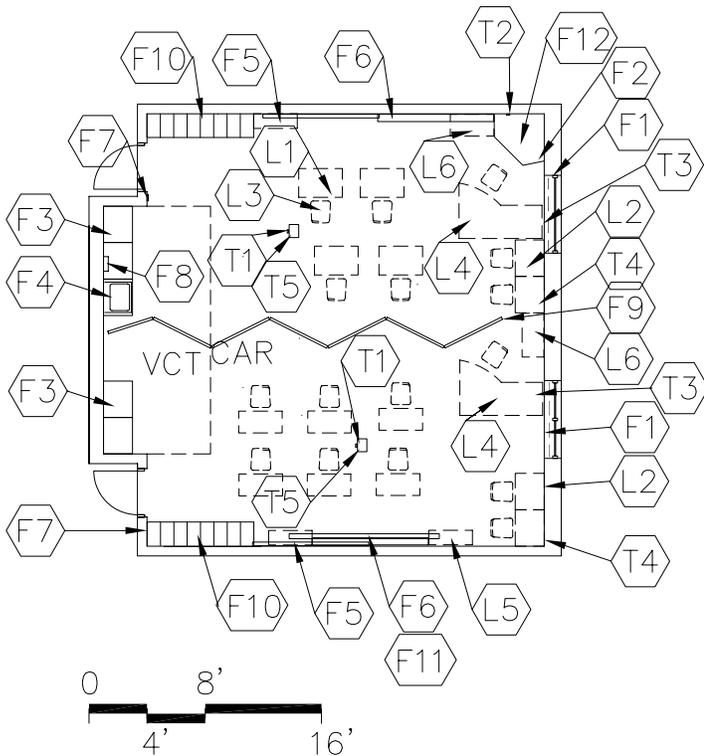
1. See Chapter 1, page 1110-16 for specific areas needed for each disability.

**RESTROOM/SHOWER
H-SE-3**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Restroom: Linoleum, VET, vinyl sheet flooring, rubber sheet flooring, or resinous flooring	096516 096500 093000	F1 Base cabinets or loose changing station or fold-down adult changing station	123550
Shower: Ceramic mosaic tile, porcelain tile, or resinous flooring	096723	F2 24" x 60" mirror	102813
		F3 Toilet tissue holder	102813
		F4 36" and 42" grab bar	102813
		F5 Soap dispenser	102813
		F6 Towel dispenser	102813
<u>Base:</u>		F7 Shower curtain and rod	102813
Restroom: Resilient base, resinous flooring, or integral vinyl cove base	096500 093000 096723	F8 ADA shower accessories	102813
Shower: Ceramic mosaic tile base, porcelain tile, resinous flooring, or integral vinyl cove base		F9 (2) towel hooks	102813
		F10 Cubicle curtain (optional)	102813
		F11 8" deep wall cabinet above toilet	102813
		F12 Shelf (optional)	102813
<u>Ceiling:</u>		<u>Fire Suppression:</u>	
Restroom: Suspended, acoustical	095113	Fire suppression system	211000
Shower: Painted portland cement plaster or interior finish system	092400/099100 092513	<u>Plumbing:</u>	
		Wall-mounted water closet	224000
<u>Walls:</u>		Wall-mounted lavatory	224000
Epoxy painted concrete masonry units	042000 /099100	ADA shower controls and head	224000
or ceramic wall tile in shower and latex paint in restroom	093000 099100	Plumbing connections	224000/221116/221119
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
Wastebasket		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



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:

- Uniform lighting
- Natural light opening equal to minimum 5% of floor area, with an operable vent
- Environmental sound control –
wall minimum STC 50
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.

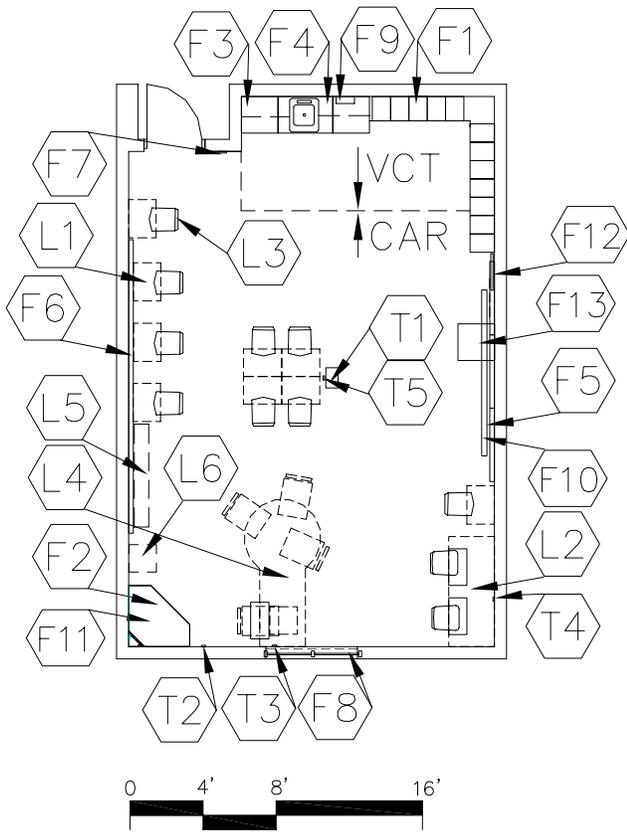
**SPECIAL EDUCATION/RESOURCE
H-SE-4**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Combination carpet	096816	F1 Windows with integral blinds	085113
with resilient options	096500	F2 3' of tall wardrobe with file drawers	123550
Option: All vinyl composition tile,	096516	F3 8'-12' of base cabinets	123550
VCTT, VET, sheet vinyl, linoleum,		F4 3' sink base cabinet	123550
or rubber		F5 10'-16' of chalk/marker board	101100
		F6 10'-16' of tack board	101100
		or tackable wall surface or combination	
<u>Base:</u>		F7 Pencil sharpener support	062000
Resilient base	096500	F8 Towel dispenser (optional)	102813
		F9 Operable partition (optional)	102226
<u>Ceiling:</u>		F10 Open casework coats and personal	
Suspended, acoustical	095113	storage w/wall cabinets above	123550
		F11 Projection screen (optional)	115213
<u>Walls:</u>		F12 Technology support casework	123550
Painted concrete masonry units		F13 Mirror (optional)	102813
	042000/099100	F14 Mobile storage cabinet (optional)	123550
		<u>Fire Suppression:</u>	
<u>LOOSE FURNISHINGS:</u>		Fire suppression system	211000
L1 Student desks/tables		<u>Plumbing:</u>	
L2 Computer workstation furniture		Sink	224000
L3 Student chairs		Plumbing connections	224000/221116/221119
L4 Teacher desk / computer support and chair		<u>HVAC:</u>	
L5 Mobile bookcases or storage unit		Supply/return air system	Div. 23
L6 File cabinet		Independent temperature control	230923
Wastebasket		<u>Electrical:</u>	
Pencil sharpener		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		Multilevel switching	262726
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to	
		each data and video port	262726
		<u>Communications:</u>	
		T1 1 video port	271533/271543
		T2 1 voice port and phone	271513/273113
		T3 1 data port	
		near each teacher workstation	271513
		T4 4 data ports (min.) for student use	271513
		Clock	275313
		Sound reinforcement system	275127
		Central sound system	275123
		T5 Overhead projector	274119
		<u>Electronic Safety and Security:</u>	
		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.



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:

- Uniform lighting
- Natural light opening equal to minimum 5% of floor area, with an operable vent
- Environmental sound control -
wall minimum STC 50
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

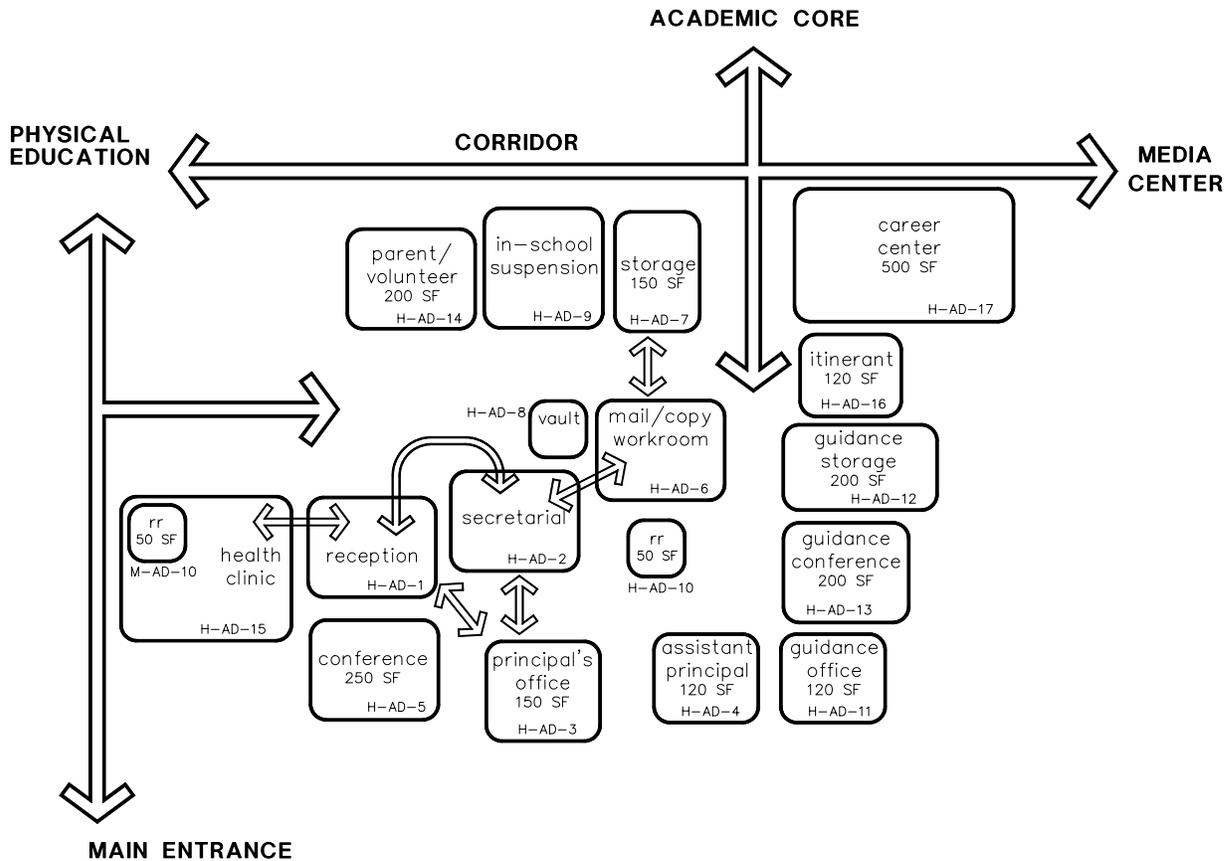
H-SE-5 (Special Education)

CHAPTER 6: HIGH SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Combination carpet	096816	F1 Open casework – coats and personal items	123550
with resilient options	096516	with wall cabinets above	123550
Option: All vinyl composition tile	096500	F2 3' of tall wardrobe w/file drawers	123550
VCTT, VET, sheet vinyl, linoleum,		F3 About 6' of base & wall cabinets (total)	123550
or rubber		F4 3' sink base cabinet	123550
		F5 10'-12' of chalk/marker board	101100
		F6 10'-16' of tack board	101100
		or tackable wall surface or combination	
<u>Base:</u>		F7 Pencil sharpener support	062000
Resilient base	096500	F8 Windows with integral blinds	085113
		F9 Towel dispenser (optional)	102813
<u>Ceiling:</u>		F10 Projection screen (optional)	115213
Suspended, acoustical	095113	F11 Technology support casework	123550
		F12 Mirror (optional)	102813
		F13 Mobile storage cabinet (optional)	123550
<u>Walls:</u>		<u>Fire Suppression:</u>	
Painted concrete masonry units		Fire suppression system	211000
	042000/099100	<u>Plumbing:</u>	
		Sink with drinking fountain	224000
		Plumbing connections	224000/221116/221119
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Student desks/tables		Supply/return air system	Div. 23
L2 Computer workstation furniture		Independent temperature	
L3 Student chairs		control	230923
L4 Teacher workstations/computer support		<u>Electrical:</u>	
and chair		Fluorescent lighting	265100
L5 6' of low bookcases (fixed or mobile)		Illumination level: See Table 8600-4	
L6 File cabinet		Multilevel switching	262726
Wastebasket		4 duplex receptacles	262726
Pencil sharpener		Double duplex receptacle adjacent to	
		each data and video port	262726
		<u>Communications:</u>	
		T1 1 video port	271533/271543
		T2 1 voice port and phone	271513/273113
		T3 1 data port	
		near teacher workstation	271513
		T4 2 data ports (minimum)	
		for student use	271513
		Clock	275313
		Central sound system	275123
		Sound reinforcement system	275127
		T5 Overhead projector (optional)	274119
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



NOTE:

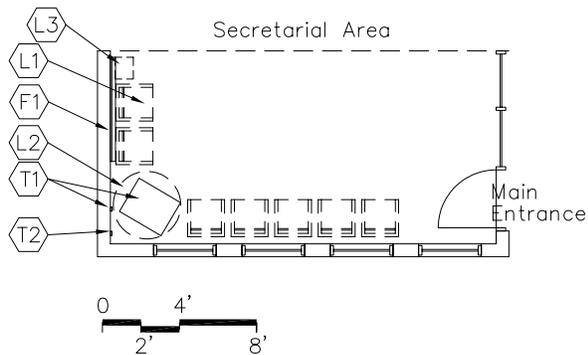
This is an example of how the administrative spaces in a high school could be arranged. This is only meant to demonstrate the relationships between various areas of the building.

Following are the Administrative space plates for the following rooms:

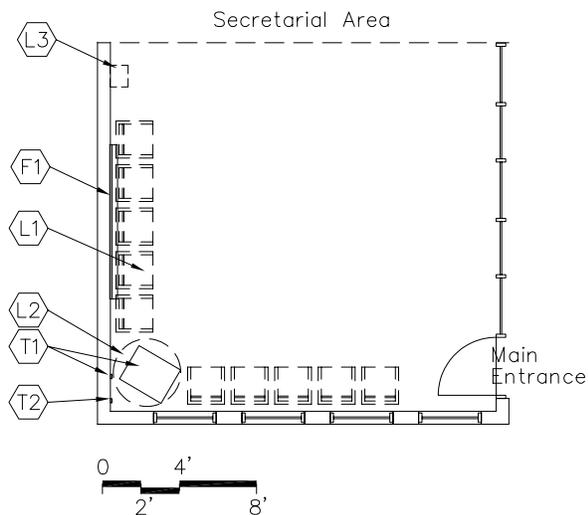
H-AD-1	Reception Area	H-AD-10	Restroom
H-AD-2	Secretarial Area	H-AD-11	Guidance Counselor's office
H-AD-3	Principal's Office	H-AD-12	Guidance Records/Storage
H-AD-4	Assistant Principal's Office	H-AD-13	Guidance Conference Room
H-AD-5	Conference Room	H-AD-14	Parent/Volunteer Room
H-AD-6	Mail/Work/Copy room	H-AD-15	Health Clinic
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	H-AD-18	Family Restroom

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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:

- Uniform lighting
- 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.

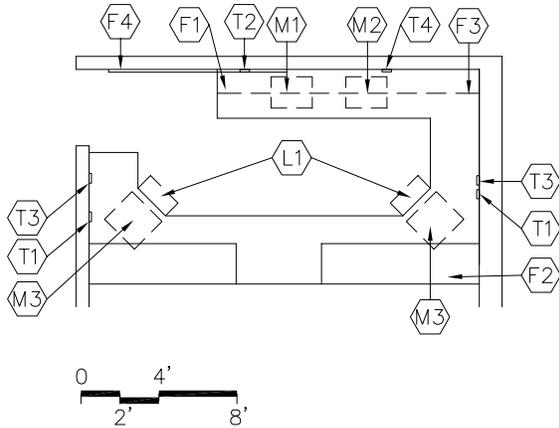
**RECEPTION AREA
H-AD-1**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Carpet <i>or</i> Carpet Tile	096816 096813	F1 Tack board or tackable wall surface (optional)	101100
Base:		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Suspended, acoustical	095113	N/A	
Walls:		<u>HVAC:</u>	
Painted gypsum wallboard over metal studs	092116 /099100	Supply/return air system	Div. 23
<u>LOOSE FURNISHINGS:</u>		Independent temperature control	230923
L1 Visitor chairs		<u>Electrical:</u>	
L2 End table		Single level switching	262726
L3 Racks for forms (optional)		Fluorescent lighting	265100
Wastebasket		Illumination level: See Table 8600-4	
		2 duplex receptacles	262726
		Double duplex receptacle adjacent to video port	262726
		Means of egress lighting per code	265100
		<u>Communications:</u>	
		T1 1 video port, monitor, and brackets	271533/271543/274119
		T2 1 voice port and phone	271513/273113
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Interior windows	081113/088000

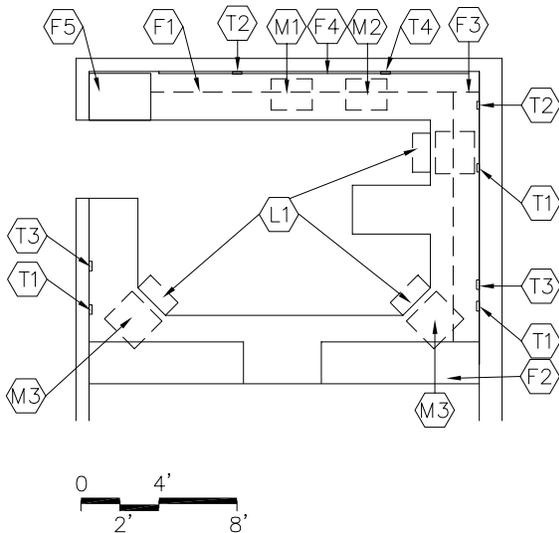
NOTES:

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

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:

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

NOTES:

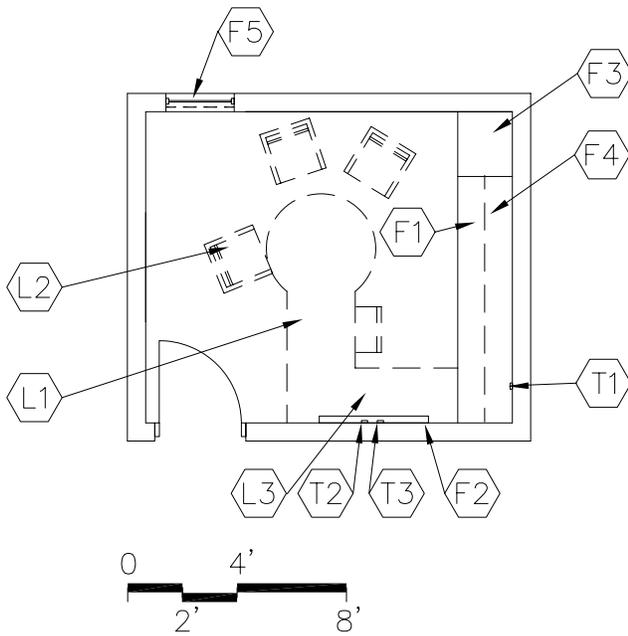
1. Loose furnishings shown represent one of many possible arrangements.

**SECRETARIAL AREA
H-AD-2**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items²:</u>	
Carpet <i>or</i> Carpet Tile	096816 096813	F1 24' - 60' of work surface with file drawers	123550
<u>Base:</u>		F2 42" high counter top with portion of counter 34" high or lower	123550
Resilient base	096500	F3 16'-24' of wall cabinets for forms, supplies, books, and manuals	123550
<u>Ceiling:</u>		F4 Tackable wall surface (optional)	101100
Suspended, acoustical	095113	F5 Tall cabinet for coats (optional)	123550
<u>Walls:</u>		<u>Fire Suppression:</u>	
Painted gypsum wallboard over metal studs	092116/099100	Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Secretarial chairs		N/A	
Wastebasket		<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Temperature control with reception area (coupled with similarly loaded adjacent spaces)	230923
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		3 duplex receptacles	262726
		Double duplex receptacle adjacent to each data port	262726
		Emergency lighting	265100
		<u>Communications:</u>	
		T1 1 voice port and phone at each secretarial workstation	271513/273113
		T2 1 fax port	271513/273113
		T3 1 data port at each secretarial workstation	271513
		T4 1 data port for printer	271513
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
<u>Miscellaneous:</u>			
The following items are to be funded by the school district:			
M1 Fax machine			
M2 Printer			
M3 Computer/typewriter			

NOTES:

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



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting
- 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.

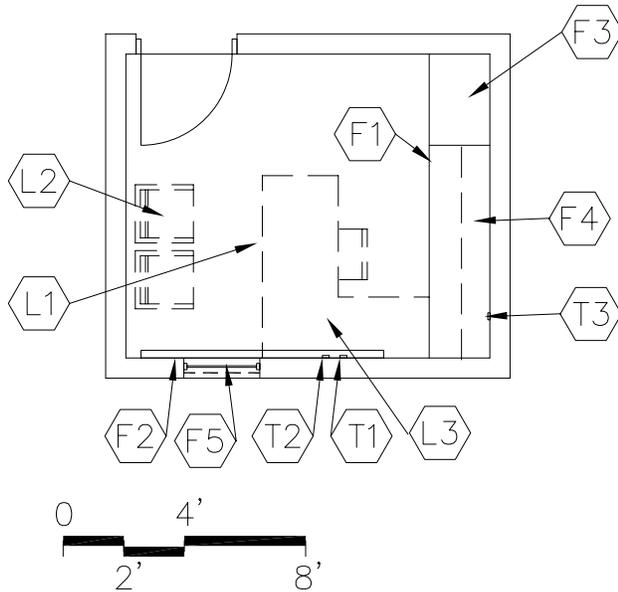
**PRINCIPAL'S OFFICE
H-AD-3**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>			
Carpet <i>or Carpet Tile</i>	096816 096813	<u>Fixed Items:</u> F1 Work surface with file drawers	123550
		F2 4' of tack board or tackable wall surface	101100
<u>Base:</u>			
Resilient base	096500	F3 2' of tall wardrobe (optional)	123550
		F4 Wall cabinets above work surface	123550
<u>Ceiling:</u>			
Suspended, acoustical	095113	F5 Window with integral blind	085116
<u>Walls:</u>			
Painted gypsum wallboard over metal studs	092116 / 099100	<u>Fire Suppression:</u> Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>			
L1 Desk and chair		<u>Plumbing:</u> N/A	
L2 Visitor chairs		<u>HVAC:</u> Supply/return air system	Div. 23
L3 Computer desk return Wastebasket		Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
<u>Electrical:</u>			
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
<u>Communications:</u>			
		T1 1 video port	271533/271543
		T2 1 voice port and phone	271513/273113
		T3 1 data port near workstation	271513
		Central sound system	275123
		Clock	275313
<u>Electronic Safety and Security:</u>			
		Life safety devices per code	283111
<u>Miscellaneous:</u>			
		N/A	

NOTES:

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



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:

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

CAPACITY: 1 - 3 persons
SIZE: 120 SF

NOTES:

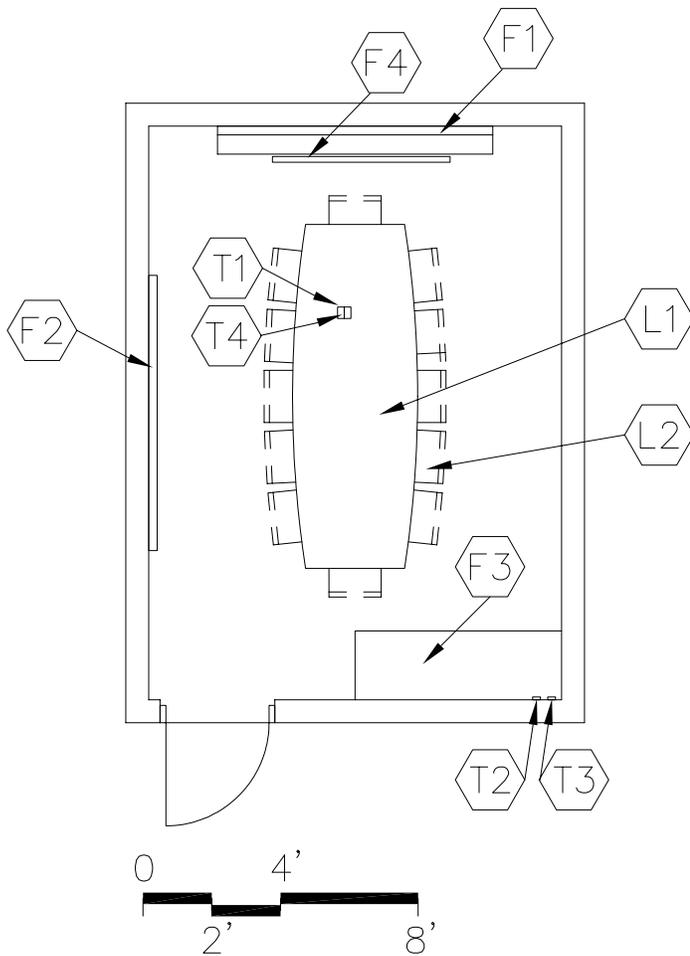
1. Loose furnishings shown represent one of many possible arrangements.

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

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Carpet <i>or Carpet Tile</i>	096816 096813	F1 Work surface with file drawers	123550
		F2 4' of tack board	101100
		or tackable wall surface	
Base:		F3 2' of tall wardrobe	123550
Resilient base	096500	F4 Wall cabinets above work surface	123550
		F5 Window with integral blind	085116
Ceiling:		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
Walls:		<u>Plumbing:</u>	
Painted gypsum wallboard		N/A	
over metal studs	092116/099100		
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Desk and chair		Supply/return air system	Div. 23
L2 Visitor chairs		Independent temperature control	230923
L3 Computer desk return		(coupled with similarly loaded	
Wastebasket		adjacent spaces)	
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent	
		to data and video port	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/273113
		T2 1 data port near workstation	271513
		T3 1 video port	271533/271543
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



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:

- Uniform lighting
- Environmental sound control -
wall minimum STC 50
ceiling minimum CAC 35, NRC **0.70**

CAPACITY: 12 – 15 persons
SIZE: 250 SF

NOTES:

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

**CONFERENCE ROOM
H-AD-5**

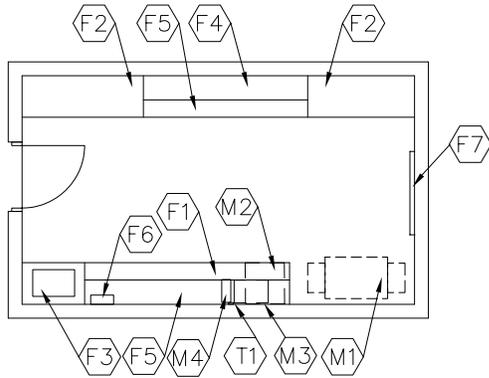
CHAPTER 6: HIGH SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Carpet <i>or</i> Carpet Tile	096816 096813	F1 About 8' of chalk/marker board	101100
		F2 About 8' of tack board or tackable wall surface	101100
Base:		F3 4'-6' of base cabinets (optional)	123550
Resilient base	096500	F4 Projection screen (optional)	115213
Ceiling:		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
Walls:		<u>Plumbing:</u>	
Painted gypsum wallboard over metal studs	092116/099100	N/A	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Conference table		Supply/return air system	Div. 23
L2 Chairs		Independent temperature control	230923
Wastebasket		<u>Electrical:</u>	
		Multilevel switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		3 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u>	
		T1 1 video port and video display device	271533/271543/274119
		T2 1 voice port and phone	271533/273113
		T3 1 data port	271513
		T4 Overhead projector	274119
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

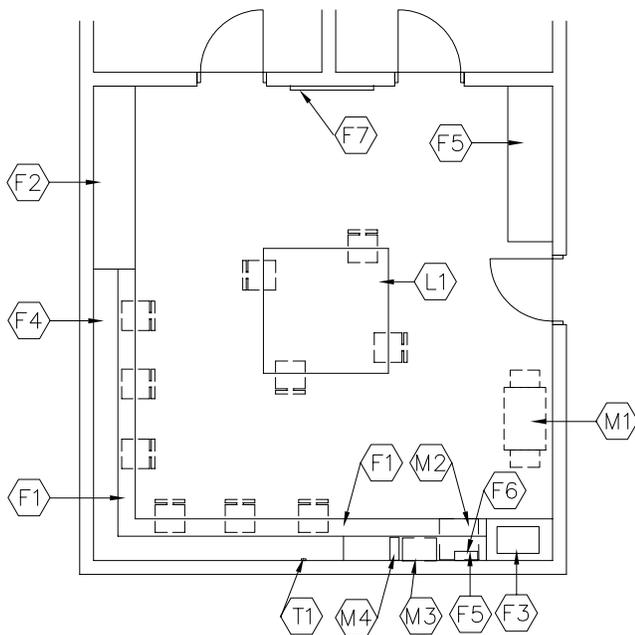
NOTES:

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

200 SF



500 SF



CAPACITY:
SIZE:

N/A
200 - 300 SF

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Near secretarial area

ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting
- 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.

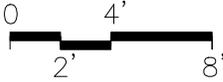
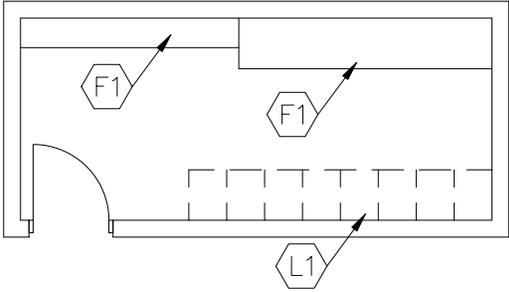
**MAIL/WORK/COPY ROOM
H-AD-6**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Vinyl composition tile	096500	F1 About 10' of base & wall cabinets	123550
Base:		F2 8'-12' of tall storage cabinets	123550
Resilient base	096500	or about 32' maximum of a combination storage cabinets	
Ceiling:		F3 3' sink base cabinet	123550
Suspended, acoustical	095113	F4 Mail cubicles for all staff	123200
Walls:		F5 10'-12' of wall cabinets	123550
Painted gypsum wallboard over metal studs	092116/099100	F6 Towel dispenser (optional)	102813
<u>LOOSE FURNISHINGS:</u>		F7 4' tack board (optional)	101100
L1 Work table and chairs (applicable in 300 SF space only)		<u>Fire Suppression:</u>	
Wastebasket		Fire suppression system	211000
		<u>Plumbing:</u>	
		Sink	224000
		Plumbing connections	224000/221116/221119
		<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Independent temperature control	230923
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		3 - 5 duplex receptacles	262726
		Receptacle for copier	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/273113
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		The following items are to be funded by the school district:	
		M1 Copier	
		M2 Undercounter refrigerator	
		M3 Microwave	
		M4 Coffee maker	

NOTES:

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

150 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

CAPACITY: N/A
SIZE: 150 - 400 SF

NOTES:

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

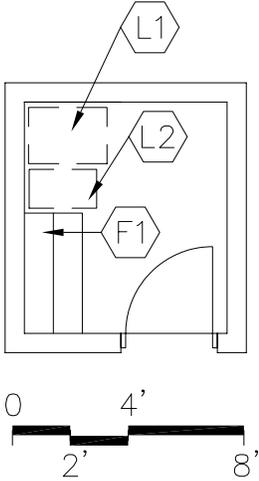
**ADMINISTRATIVE STORAGE
H-AD-7**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Vinyl composition tile	096500	F1 10'-20' of open shelving	
		depth may vary (fixed or loose)	123550
Base:		Option: mobile storage shelving	105626
Resilient base	096500		
Ceiling:		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
Walls:		<u>Plumbing:</u>	
Painted gypsum wallboard		N/A	
over metal studs	092116/099100	<u>HVAC:</u>	
		To be determined by Design Professional	
<u>LOOSE FURNISHINGS:</u>		Supplemental heat as required	Div. 23
L1 File cabinets		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

50 SF



PROGRAM ACTIVITIES:

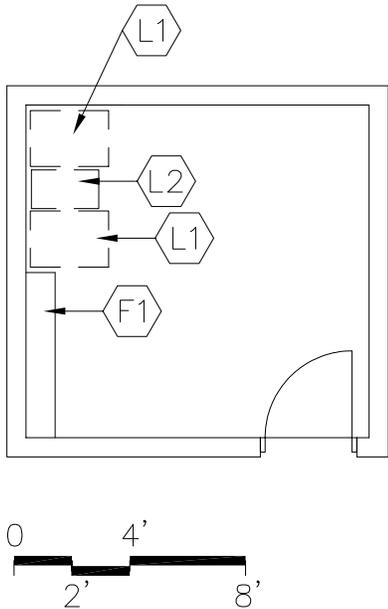
- Storage of records and security files in a secure area

SPATIAL RELATIONSHIPS:

- Access to guidance area
- Access to secretarial personnel

ENVIRONMENTAL CONSIDERATIONS:
N/A

140 SF



CAPACITY: N/A
SIZE: 50 - 210 SF

NOTES:

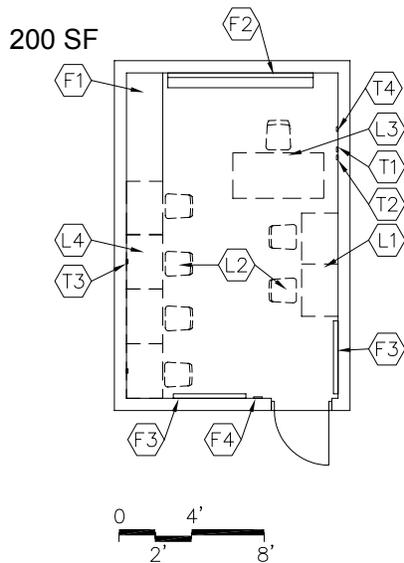
1. Loose furnishings shown represent one of many possible arrangements.

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

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Vinyl composition tile	096500	F1 3'-6' of open shelving, (depth may vary)(fixed or loose)	123550
Base:		Option: mobile storage shelving	105626
Resilient base	096500	<u>Fire Suppression:</u>	
Ceiling:		Fire suppression system	211000
Rated 2-hour construction	---	<u>Plumbing:</u>	
Walls:		N/A	
Painted concrete masonry units or		<u>HVAC:</u>	
042000 /099100		To be determined by Design Professional	
painted gypsum wallboard	092116 /099100	<u>Electrical:</u>	
Rated 2-hour construction		Single level switching	262726
<u>LOOSE FURNISHINGS:</u>		Fluorescent lighting	265100
L1 File cabinet		Illumination level: See Table 8600-4	
L2 Safe (loose or fixed)		1 duplex receptacle	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		Wall, ceiling, and door construction to have a 2-hour fire rating	

NOTES:

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



PROGRAM ACTIVITIES:

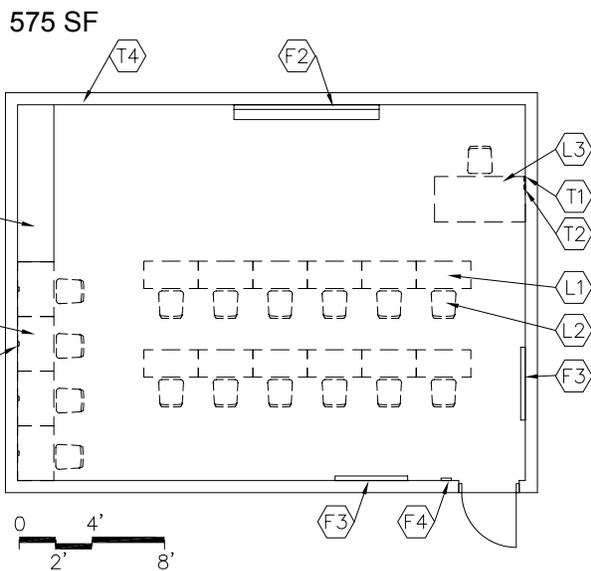
- Instructional area for students who require time away from the normal classroom due to behavioral problems

SPATIAL RELATIONSHIPS:

- Near principal's office
- Near secretarial area

ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting
- Environmental sound control -
wall minimum STC 50
ceiling minimum CAC 35, NRC **0.70**



CAPACITY: 5 - 8 students
SIZE: 200 - 600 SF

NOTES:

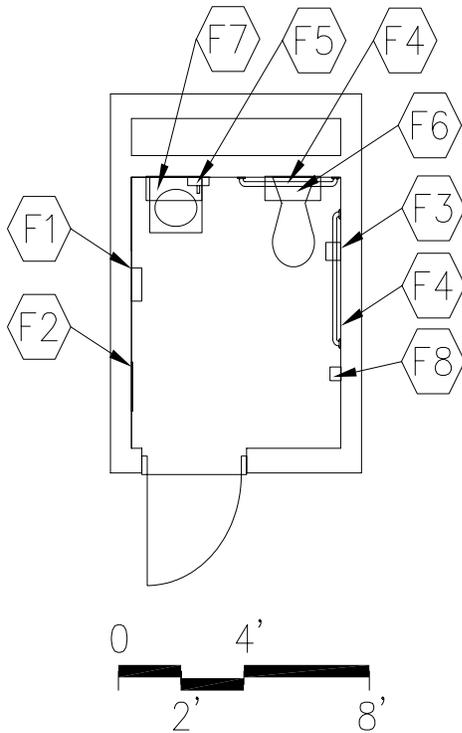
1. Loose furnishings shown represent one of many possible arrangements.

**IN-SCHOOL SUSPENSION
H-AD-9**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>			
Carpet, VCT, VET, linoleum, sheet vinyl, or rubber	096816 096500 096516	<u>Fixed Items:</u>	
		F1 3'-4' of base cabinets (optional)	123550
		F2 6'-8' of chalk/marker board	101100
		F3 4'-8' of tack board	101100
		F4 Pencil sharpener support	062000
<u>Base:</u>			
Resilient base	096500	<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>Ceiling:</u>			
Suspended, acoustical	095113	<u>Plumbing:</u>	
		N/A	
<u>Walls:</u>			
Painted concrete masonry units	042000 /092113	<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Independent temperature control	230923
<u>LOOSE FURNISHINGS:</u>			
L1 Student carrels and/or desks		<u>Electrical:</u>	
L2 Student chairs		Single level switching	262726
L3 Teacher workstation and chair		Fluorescent lighting	265100
L4 Computer workstation furniture		Illumination level: See Table 8600-4	
Wastebasket		4 duplex receptacles	262726
Pencil sharpener		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/273113
		T2 1 data port near teacher workstation	271513
		T3 2 data ports (minimum) for student use	271513
		T4 1 video port	271533/271543
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Located in the administrative area

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY: 1 person
 SIZE: 50 SF

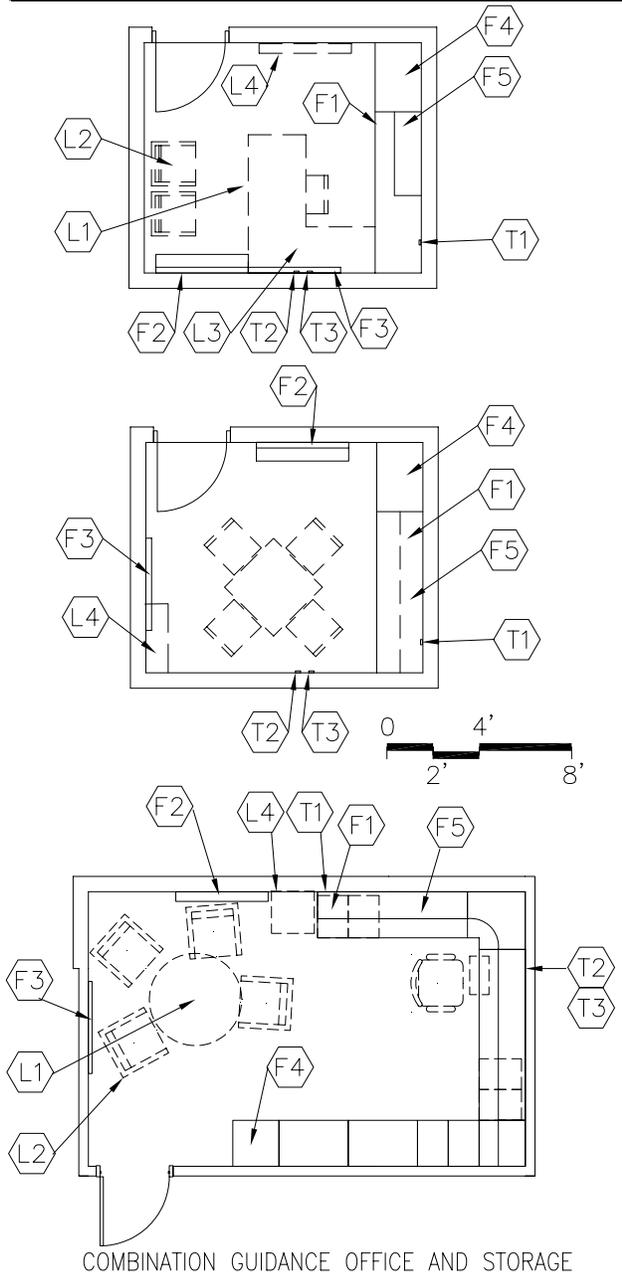
NOTES:

**RESTROOM
H-AD-10**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
VET, linoleum, rubber, or sheet vinyl	096516	F1 Towel dispenser	102813
	096500	F2 24" x 60" mirror	102813
Optional: ceramic mosaic tile,	093000	F3 Toilet tissue holder	102813
porcelain tile, or	096723	F4 36" and 42" grab bar	102813
resinous flooring		F5 Soap dispenser	102813
		F6 8" deep wall cabinet above toilet for supplies (optional)	102813
<u>Base:</u>		F7 Stainless steel shelf (optional)	102813
Resilient base	096500	F8 Coat hook	102813
Optional: ceramic mosaic tile,	093000		
porcelain tile, resinous flooring,	096723	<u>Fire Suppression:</u>	
or integral vinyl cove base		Fire suppression system	211000
<u>Ceiling:</u>		<u>Plumbing:</u>	
Suspended, acoustical	095113	Wall-mounted water closet	224000
<u>Walls:</u>		Wall-mounted lavatory	224000
Painted concrete masonry units		Plumbing connections	224000/221116/221119
	042000/099100		
Optional: moisture & abuse-resistant		<u>HVAC:</u>	
gypsum wall board	092116/099100	Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
Wastebasket		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



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:

- Uniform lighting
- 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**

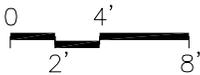
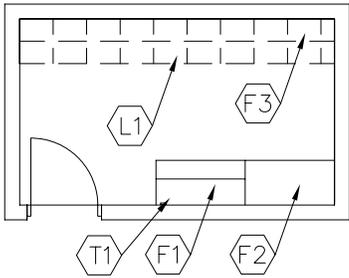
CHAPTER 6: HIGH SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>			
Carpet <i>or</i> Carpet Tile	096816 096813	<u>Fixed Items:</u>	
		F1 Work surface with file drawers	123550
		F2 4' of chalk/marker board (optional)	101100
		F3 4' of tack board	101100
		or tackable wall surface	
<u>Base:</u>		F4 Tall wardrobe	123550
Resilient base	096500	F5 Wall cabinets	123550
<u>Ceiling:</u>		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
<u>Walls:</u>		<u>Plumbing:</u>	
Painted gypsum wallboard over metal studs	092116/099100	N/A	
<u>LOOSE FURNISHINGS:</u>			
L1 Desk or table, with chair		<u>HVAC:</u>	
L2 Visitor chairs		Supply/return air system	Div. 23
L3 Computer desk return		Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
L4 Bookcase (fixed or loose) Wastebasket		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u>	
		T1 1 video port	271533/271543
		T2 1 voice port and phone	271513/273113
		T3 1 data port near workstation	271513
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

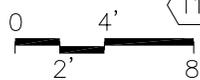
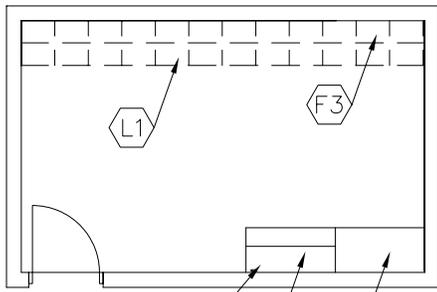
NOTES:

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

100 SF



200 SF



PROGRAM ACTIVITIES:

- Storage of supplies, files, and equipment in

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

N/A

CAPACITY:
SIZE:

N/A
100 - 300 SF

NOTES:

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

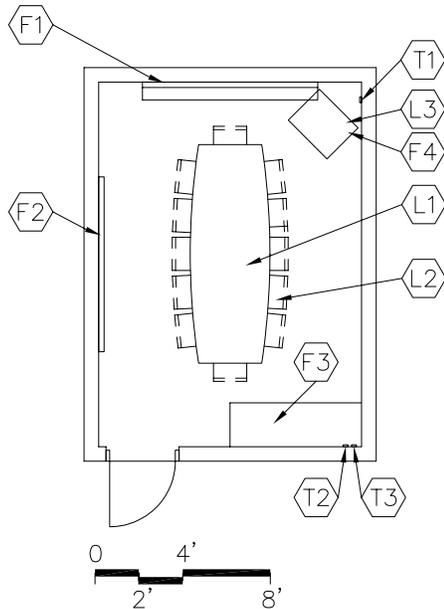
**GUIDANCE RECORDS/STORAGE
H-AD-12**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Vinyl composition tile	096500	F1 3'-6' of base and wall cabinets	123550
		F2 3'-4' of tall storage cabinets	123550
<u>Base:</u>		Option: mobile storage shelving	105626
Resilient base	096500	F3 4'-10' shelving (optional)	123550
<u>Ceiling:</u>		<u>Fire Suppression:</u>	
Rated 2-hour construction	---	Fire suppression system	211000
<u>Walls:</u>		<u>Plumbing:</u>	
Painted gypsum wallboard over metal studs or	092116/099100	N/A	
Painted concrete masonry units	042000/099100	<u>HVAC:</u>	
Rated 2-hour construction		To be determined by Design Professional	
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
L1 File cabinets		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		T1 1 data port (optional)	271513
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Wall, ceiling, and door construction to have a 2-hour fire rating	

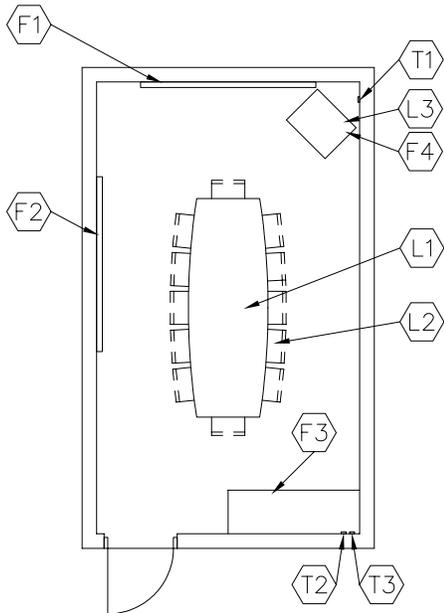
NOTES:

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

150 SF



250 SF



CAPACITY:
SIZE:

12 - 15 persons
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:

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

NOTES:

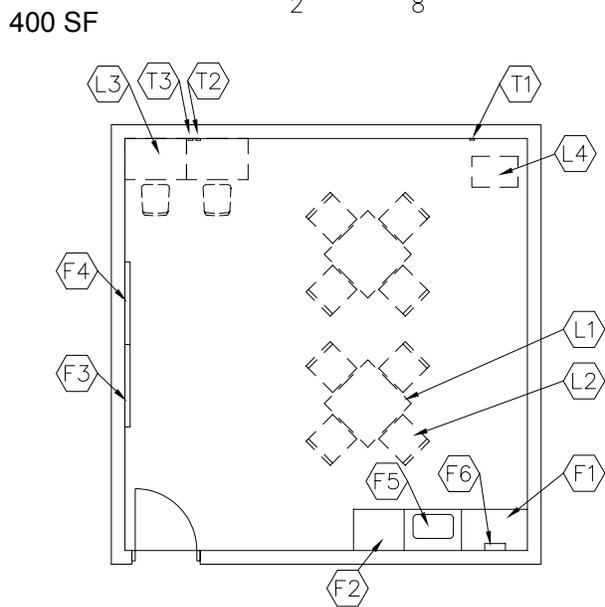
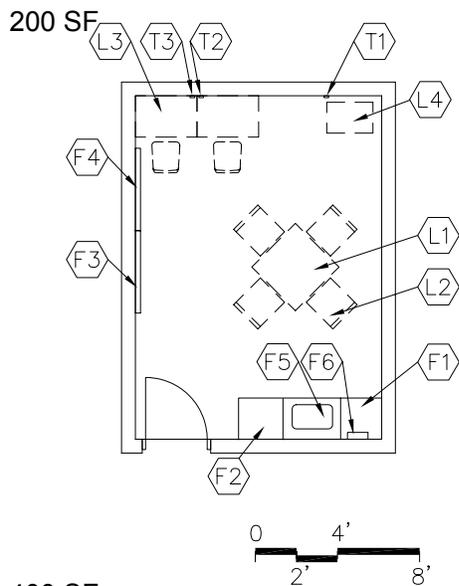
1. Loose furnishings shown represent one of many possible arrangements.

**GUIDANCE CONFERENCE ROOM
H-AD-13**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Carpet <i>or</i> Carpet Tile	096816 096813	F1 6'-8' of chalk/marker board	101100
		F2 4'-8' of tack board	101100
Base:		F3 4'-6' of base cabinets	123550
Resilient base	096500	F4 Technology support casework (optional)	123550
Ceiling:		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
Walls:		<u>Plumbing:</u>	
Painted gypsum wallboard over metal studs	092116/099100	N/A	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Conference table		Supply/return air system	Div. 23
L2 Chairs		Independent temperature control	230923
L3 Monitor cart or cabinet (could be fixed casework)		<u>Electrical:</u>	
Wastebasket		Multilevel switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		3 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u>	
		T1 1 video port and video display device	271533/271543/274119
		T2 1 voice port and phone	271513/273113
		T3 1 data port	271513
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



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:

- Uniform lighting
- 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.

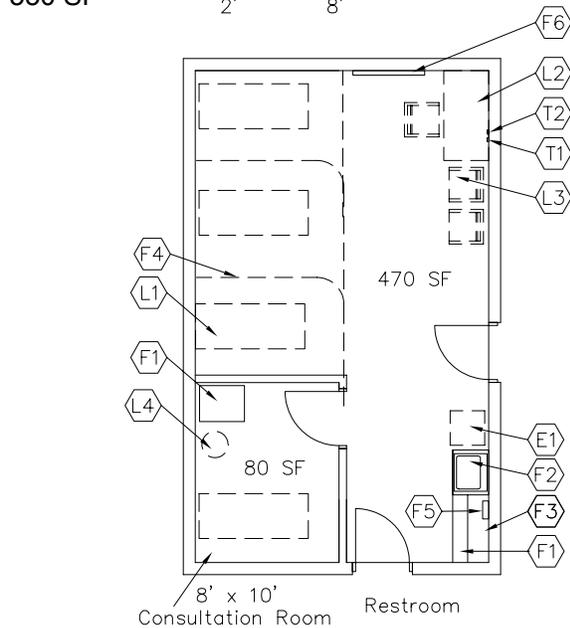
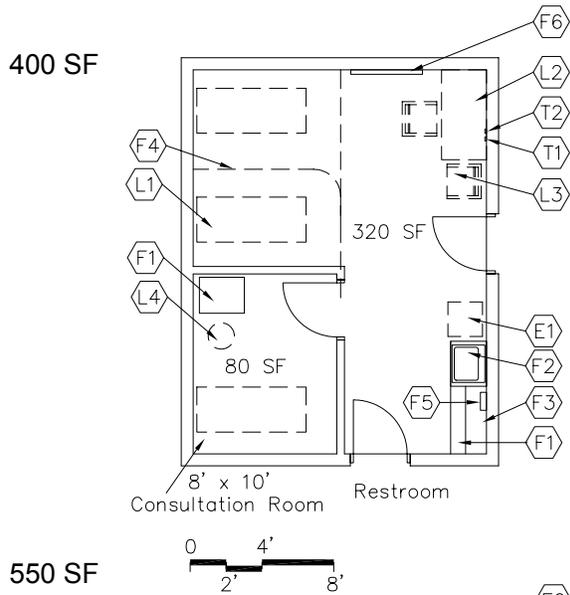
**PARENT/VOLUNTEER ROOM
H-AD-14**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>			
Carpet <i>or</i> Carpet Tile	096816 096813	<u>Fixed Items:</u> F1 About 3' of base cabinets	123550
		F2 2' of tall wardrobe or coat cabinet (optional)	123550
<u>Base:</u>			
Resilient base	096500	F3 4' of chalk/marker board (optional)	101100
		F4 4' of tack board or tackable wall surface	101100
<u>Ceiling:</u>			
Suspended, acoustical	095113	F5 3' sink base cabinet	123550
		F6 Towel dispenser	102813
<u>Walls:</u>			
Painted gypsum wallboard over metal studs	092116/099100	<u>Fire Suppression:</u> Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>			
L1 Table		<u>Plumbing:</u> Sink	224000
L2 Chairs		Plumbing connections	224000/221116/221119
L3 Computer workstation furniture			
L4 Monitor cart		<u>HVAC:</u> Supply/return air system	Div. 15
Wastebasket		Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
Pencil sharpener			
		<u>Electrical:</u> Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u> T1 1 video port and video display device	271533/271543/274119
		T2 1 voice port and phone	271513/273113
		T3 1 data port near workstation	271513
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u> Life safety devices per code	283111
		<u>Miscellaneous:</u> N/A	

NOTES:

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



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

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY: 3 - 4 patients
 SIZE: 400 - 600 SF
 ANCILLARY SPACES: Restroom
 H-AD-10

NOTES:

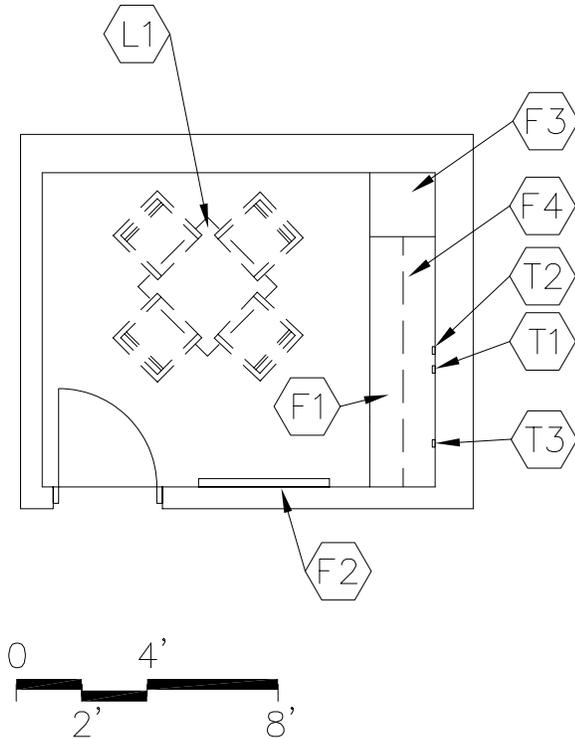
1. Loose furnishings shown represent one of many possible arrangements.

**HEALTH CLINIC
H-AD-15**

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<u>Fixed Items:</u>	
Vinyl composition tile, linoleum, rubber, VET, sheet vinyl, or resinous flooring	096516	F1 4'-9' of base cabinets	123550
	096500	F2 3' sink base cabinet	123550
	096723	F3 4'-9' of wall cabinets, lockable	123550
Base:		F4 Cubicle curtain and track	102123
Resilient base, resinous flooring, or integral vinyl cove base	096500	F5 Towel dispenser	102813
	096723	F6 4' of tack board	101100
Ceiling:		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
Walls:		<u>Plumbing:</u>	
Painted gypsum wallboard over metal studs	092116/099100	Sink	224000
		Plumbing connections	224000/221116/221119
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Cots		Supply/return air system	Div. 23
L2 Desk and chair		Independent temperature control	230923
L3 Chairs		<u>Electrical:</u>	
L4 Stool		Single level switching	262726
Wastebasket		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
<u>EQUIPMENT:</u>		2 duplex receptacles	262726
E1 Refrigerator with ice making capabilities		Double duplex receptacle adjacent to each data port	262726
		Receptacle for refrigerator	262726
		Emergency lighting	265100
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/273113
		T2 1 data port near workstation	271513
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



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:

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

APACITY: 1 - 3 persons
SIZE: 120 SF

NOTES:

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

**ITINERANT PERSONNEL OFFICE
H-AD-16**

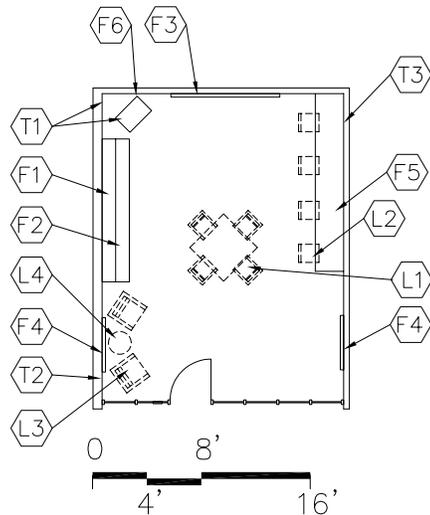
CHAPTER 6: HIGH SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Carpet <i>or</i> Carpet Tile	096816 096813	F1 Work surface with file drawers(optional)	123550
		F2 4' of tack board or tackable wall surface	101100
Base:		F3 2' of tall wardrobe (optional)	123550
Resilient base	096500	F4 Wall cabinets	123550
Ceiling:		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
Walls:		<u>Plumbing:</u>	
Painted gypsum wallboard over metal studs	092116 /099100	N/A	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Table and chairs		Supply/return air system	Div. 23
Wastebasket		Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to data and video port	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/273113
		T2 1 data port	271513
		T3 1 video port	271533/271543
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

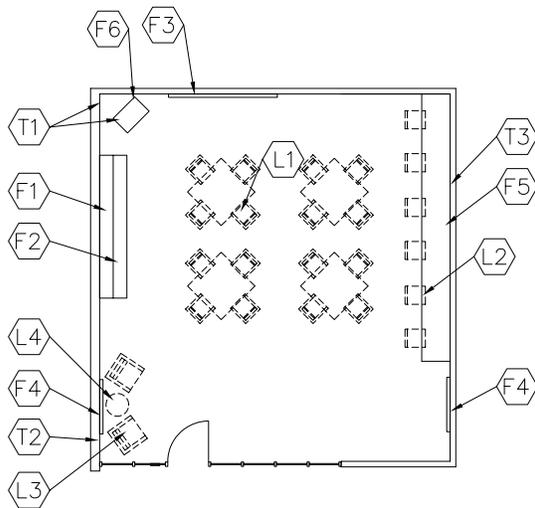
NOTES:

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

300 SF



700 SF



CAPACITY:
SIZE:

6 - 16 persons
300 - 700 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:

- Uniform 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.

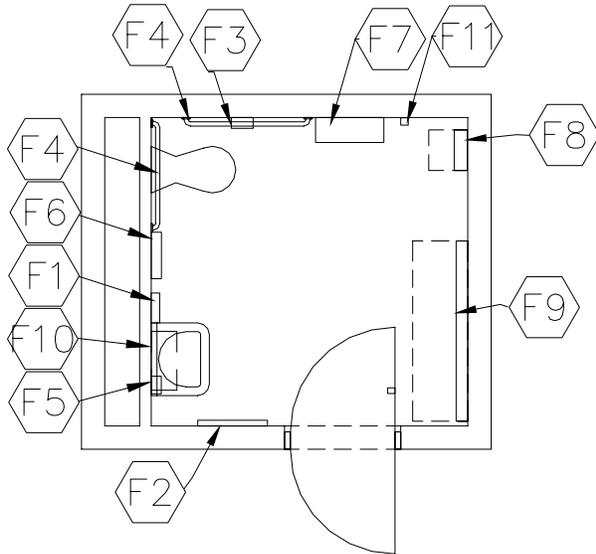
**CAREER CENTER
H-AD-17**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet <i>or</i> Carpet Tile	096816 096813	F1 8'-16' display cabinets	123550
<u>Base:</u>		F2 About 9' base cabinets	123550
Resilient	096500	F3 6'-8' of chalk/marker board (optional)	101100
<u>Ceiling:</u>		F4 6'-8' of tack board or tackable wall surface	101100
Suspended, acoustical	095113	F5 Workstation	123550
<u>Walls:</u>		F6 Technology support casework	123550
Painted concrete masonry units	042000/099100	<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Work tables and chairs		N/A	
L2 Workstation chairs		<u>HVAC:</u>	
L3 reading chairs		Supply/return air system	Div. 23
L4 Small table		Independent temperature control	230923
Wastebasket		<u>Electrical:</u>	
		Fluorescent lighting:	265100
		Illumination level: See Table 8600-4	
		Multilevel switching	262726
		4 duplex receptacles	262726
		Double duplex receptacles adjacent to each data and video port	262726
		<u>Communications:</u>	
		T1 1 video port and video display device	271533/271543/274119
		T2 1 voice port	271513/273113
		T3 4 data ports at workstations(minimum)	271513
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Located **where best**, but accessible to all building occupants

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY: 2 people
SIZE: 80 SF

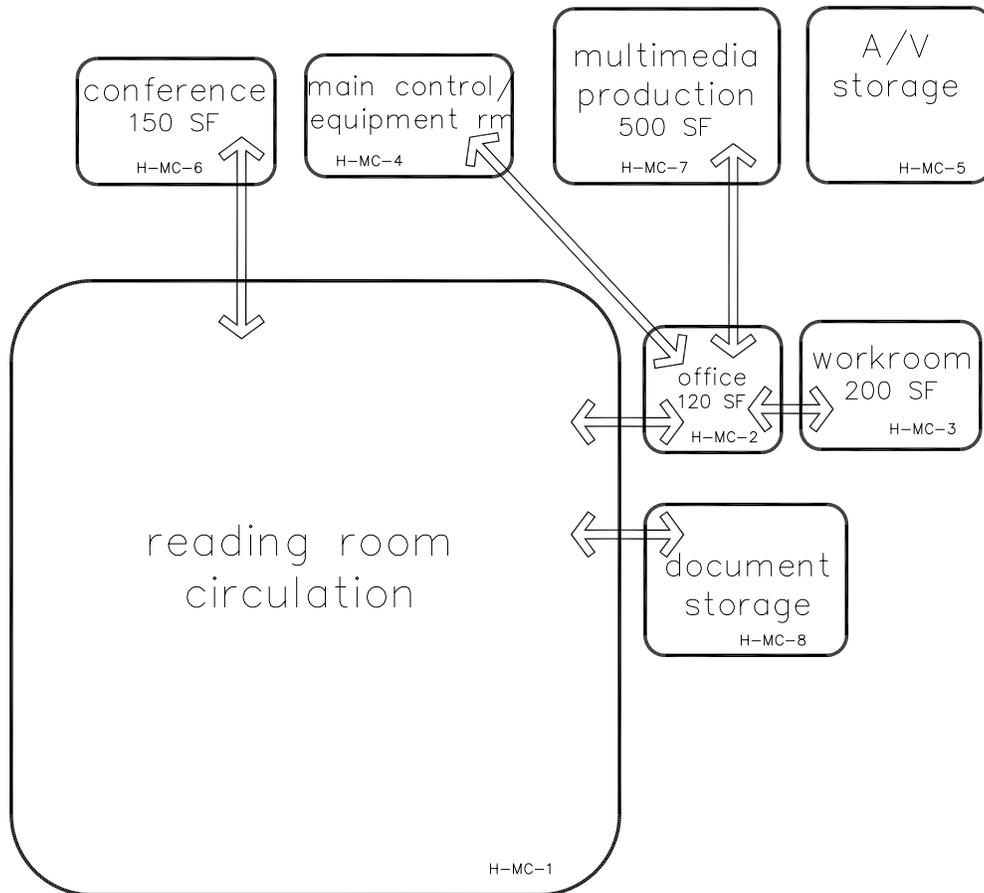
NOTES:

**FAMILY RESTROOM
H-AD-18**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Linoleum, rubber, VET, or sheet vinyl	096516 096500	F1 Towel dispenser	102813 102813
Optional: Ceramic mosaic tile, porcelain tile, or resinous flooring	093000 096723	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
<u>Base:</u>		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Optional: Ceramic mosaic tile, porcelain tile, resinous flooring, or integral vinyl cove base	093000 096723		
<u>Ceiling:</u>		<u>Plumbing:</u>	
Suspended, acoustical	095113	Wall-mounted water closet	224000
		Wall-mounted lavatory	224000
		Plumbing connections	224000/221116/221119
<u>Walls:</u>		<u>HVAC:</u>	
Painted concrete masonry units	042000 /099100	Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
Wastebasket		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



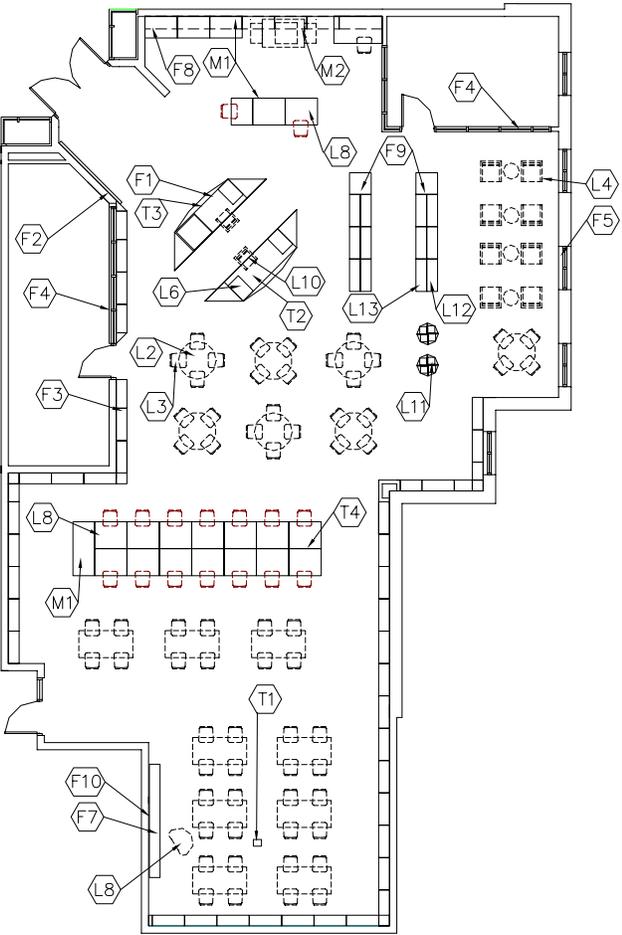
NOTE:

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 A/V Storage
- H-MC-6 Conference Room
- H-MC-7 Multimedia Production Room
- H-MC-8 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:

- Uniform lighting
- Natural light opening with an operable vent
- Environmental sound control -
 wall minimum STC 50
 ceiling minimum CAC 35, NRC **0.70**
- Visual awareness of space to students and staff through transparency to corridor

NOTES:

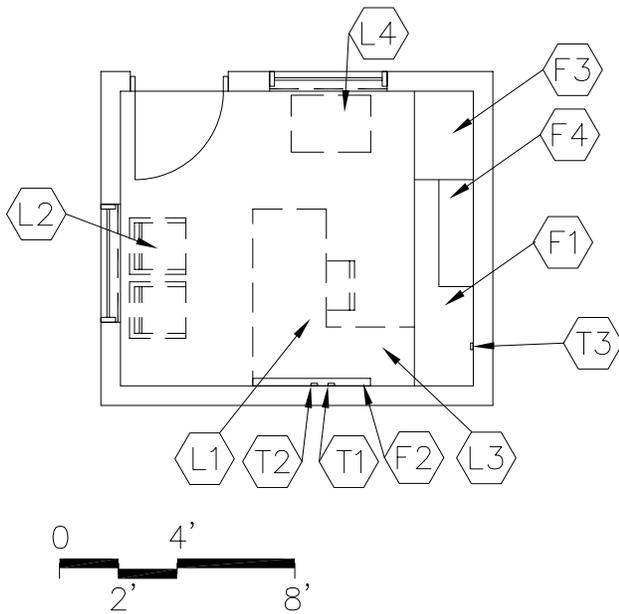
1. Loose furnishings shown represent one of many possible arrangements.

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

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet <i>or Carpet Tile</i>	096816 096813	F1 Circulation desk casework	123550
		F2 6'-10' of tack board or tackable wall surface	101100
<u>Base:</u>		F3 Library book shelving	115123
Resilient base	096500	F4 Interior windows	081113/088000
<u>Ceiling:</u>		F5 Windows with integral blinds or shades	085113
Suspended, acoustical	095113	F6 Pencil sharpener support (optional)	062000
<u>Walls:</u>		F7 6'-10' of chalk/marker board	101100
Painted concrete masonry units	042000/099100	F8 Technology support casework	123550
Acoustical wall treatment	098000	F9 Search station terminals	123550
		F10 Projection screen (optional)	115213
		Roller window shades (optional)	122413
<u>LOOSE FURNISHINGS²:</u>		<u>Fire Suppression:</u>	
L1 Mobile book carts		Fire suppression system	211000
L2 Student tables		<u>Plumbing:</u>	
L3 Student chairs		N/A	
L4 Casual seating chairs		<u>HVAC:</u>	
L5 Study carrels (optional)		Supply/return air system	Div. 23
L6 (3) Desk height file cabinets		Independent temperature control	230923
L7 Atlas stand (optional)		<u>Electrical:</u>	
L8 Computer workstation furniture		Fluorescent lighting:	265100
L9 Dictionary stand (optional)		Illumination level: See Table 8600-4	
L10 Circulation desk task chair		Multilevel switching	262726
L11 Paperback book racks		10 duplex receptacles	262726
L12 Newspaper racks		Double duplex receptacle adjacent to each data and video port	262726
L13 Magazine display		Emergency lighting per code	265100
Wastebaskets		Means of egress lighting per code	265100
Pencil sharpener (optional)		<u>Communications:</u>	
		T1 1 video port and video display device	271533/271543/274119
		T2 1 voice port and phone at circulation desk	271513/273113
		T3 2 data ports for media center automation system	271513
		T4 4 data ports for student use	271513
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		The following items are to be funded by the owner:	
		M1 2 printers: 1 at circulation desk and 1 in student work area	
		M2 Copier	

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.



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:

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

CAPACITY: 1 - 3 persons
SIZE: 120 SF

NOTES:

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

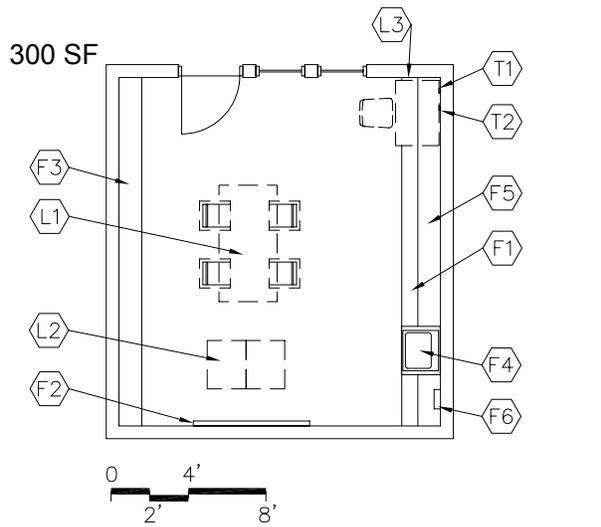
**MEDIA SPECIALIST OFFICE
H-MC-2**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>			
Carpet <i>or Carpet Tile</i>	096816 096813	<u>Fixed Items:</u>	
		F1 Work surface with file drawers	123550
		F2 4' of tack board or tackable wall surface	101100
<u>Base:</u>			
Resilient base	096500	F3 2' of tall wardrobe	123550
		F4 Wall cabinets	123550
<u>Ceiling:</u>			
Suspended, acoustical	095113	F5 Bookcases (optional)	123550
<u>Walls:</u>			
Painted concrete masonry units	042000/099100	<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>			
L1 Desk and chair		<u>Plumbing:</u>	
L2 Visitor chairs		N/A	
L3 Computer desk return		<u>HVAC:</u>	
L4 File cabinet		Supply/return air system	Div. 23
Wastebasket		Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to data and video port	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/273113
		T2 1 data port near workstation	271513
		T3 1 video port	271533/271543
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Interior window	081113/088000

NOTES:

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



PROGRAM ACTIVITIES:

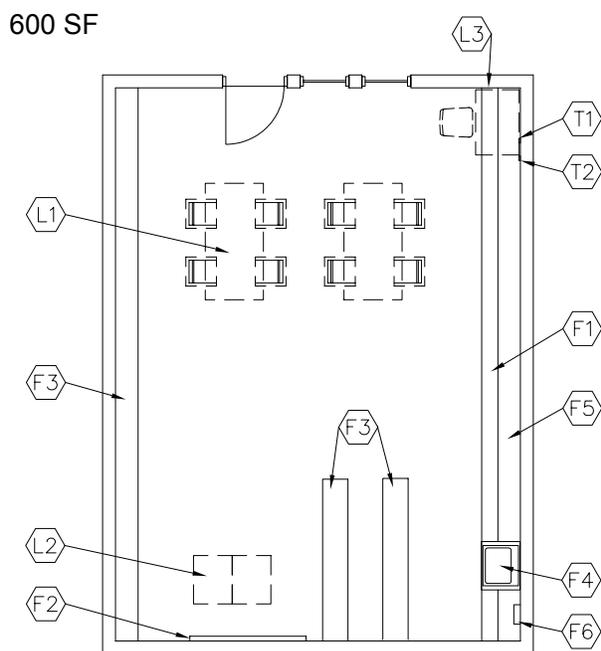
- Space for receiving, processing, and repairing media material

SPATIAL RELATIONSHIPS:

- Near reading room/circulation
- Near media specialist office

ENVIRONMENTAL CONSIDERATIONS:

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



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

NOTES:

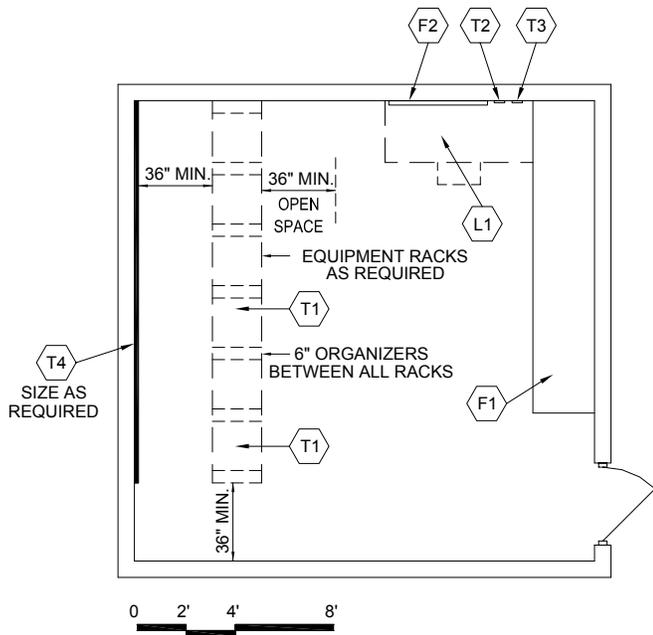
1. Loose furnishings shown represent one of many possible arrangements.

**WORKROOM/STORAGE
H-MC-3**

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<u>Fixed Items²:</u>	
Vinyl composition tile	096500	F1 13'-25' of base cabinets or combination with tall cabinets	123550
Base:		F2 4'-8' of tack board	101100
Resilient base	096500	F3 16'-60' of bookcases	123550
Ceiling:		F4 3' sink base cabinet	123550
Suspended, acoustical	095113	F5 13'-28' of wall cabinets	123550
Walls:		F6 Towel dispenser	102813
Painted concrete masonry units	042000/099100	<u>Fire Suppression:</u>	
<u>LOOSE FURNISHINGS:</u>		Fire suppression system	211000
L1 Table and chairs		<u>Plumbing:</u>	
L2 Book trucks		Sink	224000
L3 Computer workstation Wastebasket		Plumbing connections	224000/221116/221119
		<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		3 duplex receptacles	262726
		Double duplex receptacle adjacent to each data port	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/273113
		T2 1 data port	271513
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Interior window	081113/088000

NOTES:

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



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Near the center of the building **to minimize the number of Telecommunication Rooms (TR)**

ENVIRONMENTAL CONSIDERATIONS:

- Ventilation and cooling of heat-generating electronic equipment

CAPACITY: N/A
 SIZE: 300 - 400 SF

NOTES:

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

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

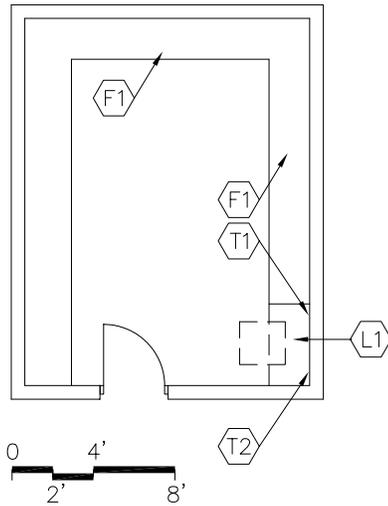
CHAPTER 6: HIGH SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Vinyl composition tile, VET, or sheet vinyl	096500	F1 8'-16' of open shelving, depth may vary (fixed or loose)	123550
Base:		F2 4' of tack board (optional)	101100
Resilient base	096500	<u>Fire Suppression:</u>	
Ceiling:		Fire suppression system	211000
Suspended, acoustical	095113	<u>Plumbing:</u>	
Walls:		N/A	
Painted concrete masonry units	042000 /099100	<u>HVAC:</u>	
<u>LOOSE FURNISHINGS:</u>		Independent, packaged system	Div. 23
L1 Desk and chair		<u>Electrical:</u>	
Wastebasket		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		3 duplex receptacles	262726
		Duplex receptacle for electronic systems	262726
		Telecommunications Grounding	270526/260526
		<u>Communications:</u>	
		T1 Technology Equipment	
		Central sound system	275123
		Telephone wiring	271313/271513
		Integrated telephone system	273113
		Video wiring	271333/271533/271543
		Digital on demand delivery system	274125
		Local area network wiring	271513/271323
		Local area network electronics	272100
		Grounding & Infrastructure Equipment	270526/271100
		T2 1 voice port and phone	271513/273113
		T3 1 data port near workstation	271513
		T4 1/4" plywood back board	271313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		Security system	281300/281600/282300
		<u>Miscellaneous:</u>	
		Provide distribution equipment with an equipment electrical ground.	

NOTES:

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

250 SF



PROGRAM ACTIVITIES:

- Storage of audio/video (A/V) equipment

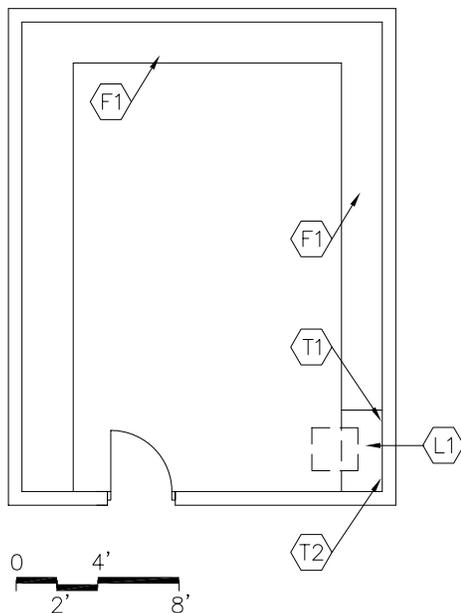
SPATIAL RELATIONSHIPS:

- Near media specialist office
- Near workroom/storage

ENVIRONMENTAL CONSIDERATIONS:

N/A

400 SF



CAPACITY:

N/A

SIZE:

250 - 550 SF

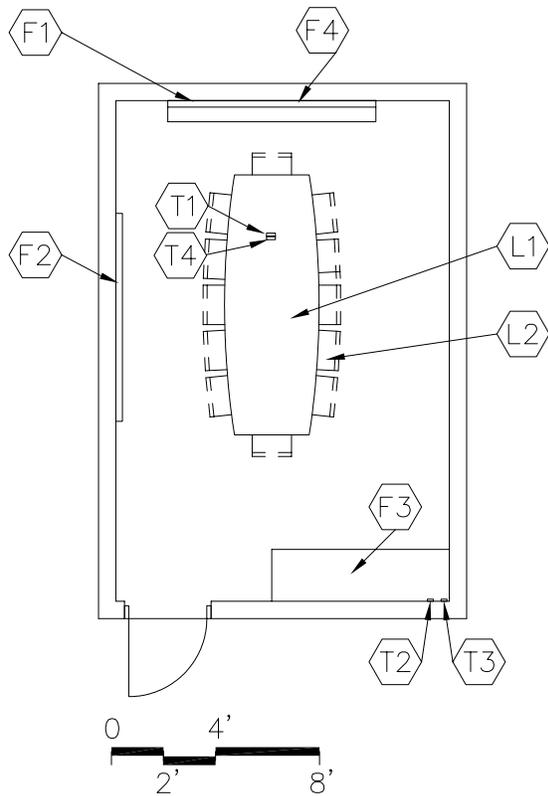
NOTES:

A/V STORAGE
H-MC-5

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<u>Fixed Items³:</u>	
Vinyl composition tile	096500	F1 8' – 26' of open shelving, depths may vary (fixed or loose)	123550
Base:		Option: mobile storage shelving	105626
Resilient base	096500	<u>Fire Suppression:</u>	
Ceiling:		Fire suppression system	211000
Suspended, acoustical	095113	<u>Plumbing:</u>	
Walls:		N/A	
Painted concrete masonry units	042000/099100	<u>HVAC:</u>	
<u>LOOSE FURNISHINGS:</u>		To be determined by Design Professional	
L1 Desk and chair		<u>Electrical:</u>	
Wastebasket		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		4 duplex receptacles (minimum)	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/273113
		T2 1 data port near workstation	271513
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



CAPACITY: 8 - 12 persons
 SIZE: 250 SF

PROGRAM ACTIVITIES:

- Used primarily by students for group projects

SPATIAL RELATIONSHIPS:

- Near reading room/circulation

ENVIRONMENTAL CONSIDERATIONS:

- Uniform 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.

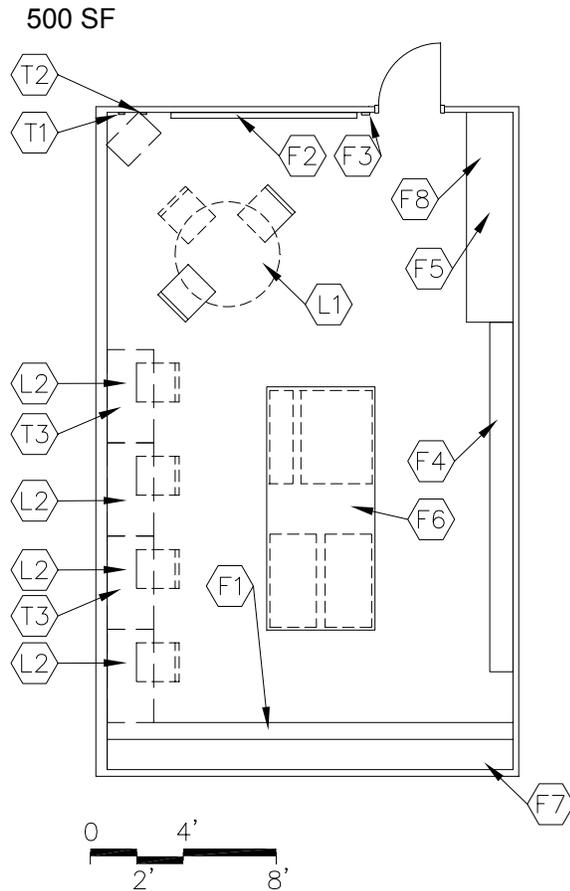
**CONFERENCE ROOM
H-MC-6**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items²:</u>	
Carpet <i>or</i> Carpet Tile	096816 096813	F1 8'-10' of chalk/marker board	101100
		F2 6'-8' of tack board	101100
<u>Base:</u>		F3 4'-6' of base cabinets (optional) (fixed or mobile)	123550
Resilient base	096500	F4 Projection screen (optional)	115213
<u>Ceiling:</u>		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
<u>Walls:</u>		<u>Plumbing:</u>	
Painted concrete masonry units	042000/099100	N/A	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Conference table		Supply/return air system	Div. 23
L2 Chairs		Independent temperature control	230923
Wastebasket		<u>Electrical:</u>	
		Multilevel switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		3 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u>	
		T1 1 video port	271533/271543
		T2 1 voice port and phone	271513/273113
		T3 1 data port	271513
		T4 Overhead projector	274119
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



CAPACITY:
SIZE:

5 - 7 persons
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:

- Uniform lighting
- Environmental sound control –
wall minimum STC 50
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.

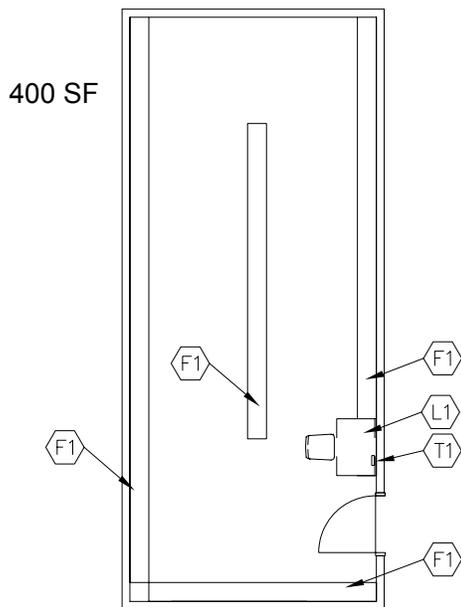
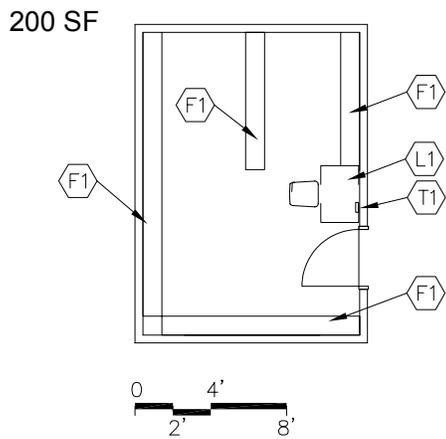
**MULTIMEDIA PRODUCTION ROOM
H-MC-7**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items²:</u>	
Vinyl composition tile, linoleum, VET, sheet vinyl, or rubber	096500 096516	F1 6'-18' of base cabinets with different types of storage	123550 123550
<u>Base:</u>		F2 4'-8' of tack board	101100
Resilient base	096500	F3 Pencil sharpener support (optional)	062000
<u>Ceiling:</u>		F4 4' - 16' of tall bookcases	123550
Suspended, acoustical	095113	F5 3' - 9' of tall cabinets	123550
<u>Walls:</u>		F6 Work surface	123550
Painted concrete masonry units	042000/099100	F7 6'-18' of wall cabinets	123550
		F8 Technology support casework (if applicable)	123550
<u>LOOSE FURNISHINGS:</u>		<u>Fire Suppression:</u>	
L1 Tables and chairs/stools		Fire suppression system	211000
L2 Computer workstation furniture		<u>Plumbing:</u>	
Wastebasket		N/A	
Pencil sharpener (optional)		<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Independent temperature control	230923
		<u>Electrical:</u>	
		Multilevel switching	262726
		Fluorescent lighting	265100
		illumination level: See Table 8600-4	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u>	
		T1 1 video port and video display device	
			271533/271543/274119
		T2 1 voice port and phone	271513/273113
		T3 4 data ports	271513
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Interior windows for supervision (optional)	
			081113/088000
		The following items to be provided by the school district:	
		Copier, scanner, printers, binders, laminators	

NOTES:

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



CAPACITY: N/A
 SIZE: 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:

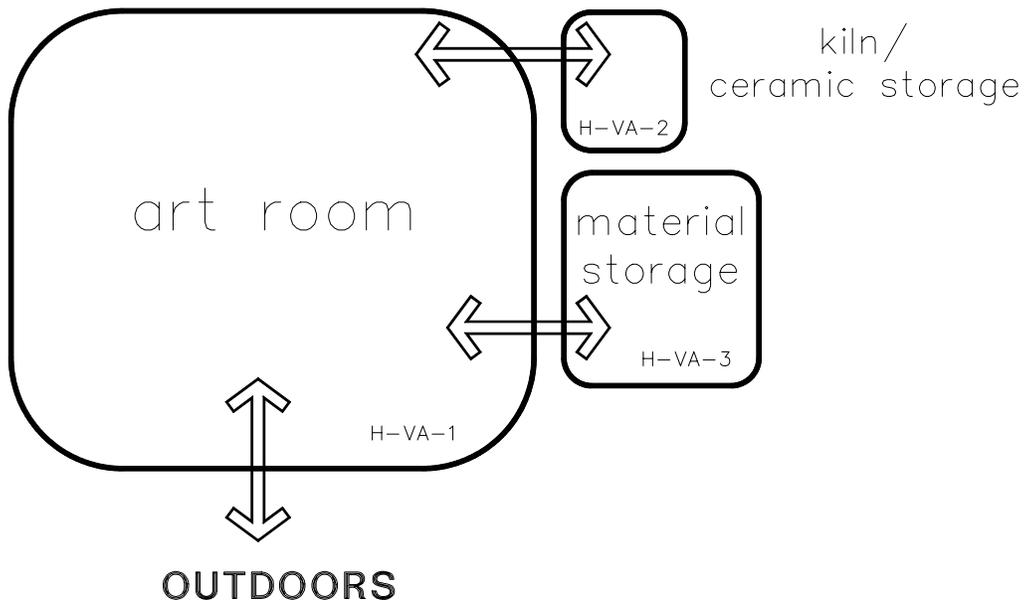
1. Loose furnishings shown represent one of many possible arrangements.

**DOCUMENT STORAGE
H-MC-8**

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES:</u>	
Flooring:		<u>Fixed Items²:</u>	
Vinyl composition tile	096500	F1 36' – 80' of open shelving (fixed or loose)	123550
Base:		Option: mobile storage shelving	105626
Resilient base	096500		
Ceiling:		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
Walls:		<u>Plumbing:</u>	
Painted concrete masonry units	042000/099100	N/A	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Computer worksurface		To be determined by Design Professional	
		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Fluorescent lighting:	265100
		Illumination level: See Table 8600-10	
		Single level switching	262726
		2 duplex receptacles	262726
		<u>Communications:</u>	
		T1 1 data port (optional)	271523
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

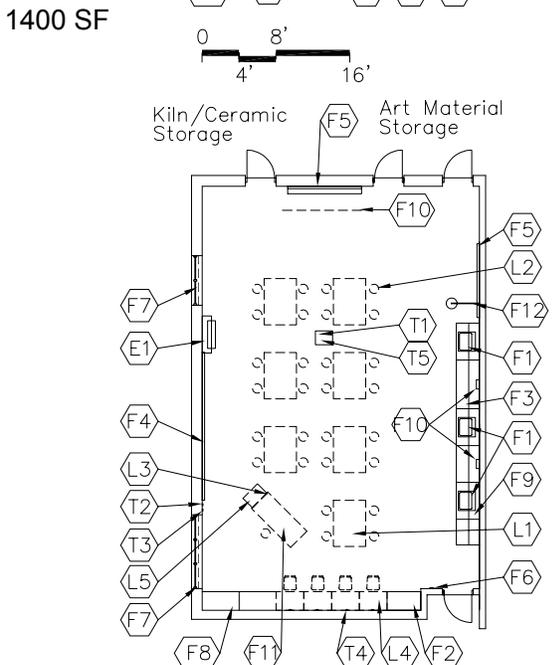
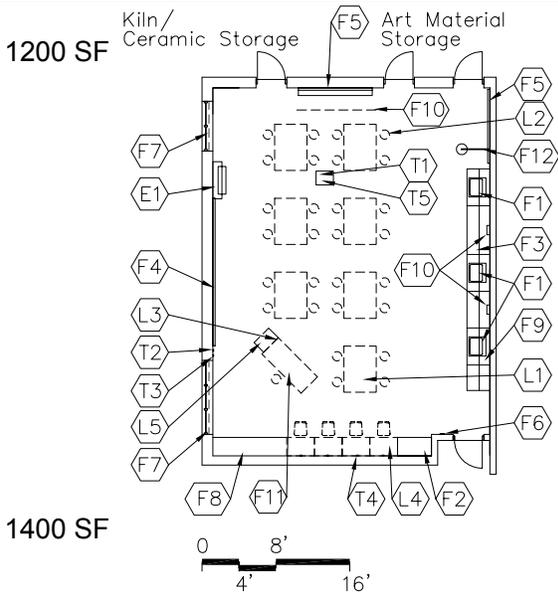
**NOTE:**

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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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:

- Uniform lighting
- Natural lighting opening equal to minimum 5% of floor area, with an operable vent
- Environmental sound control - wall minimum STC 50 ceiling minimum STC 35, NRC **0.70**
- Stain-resistant floor covering

NOTES:

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

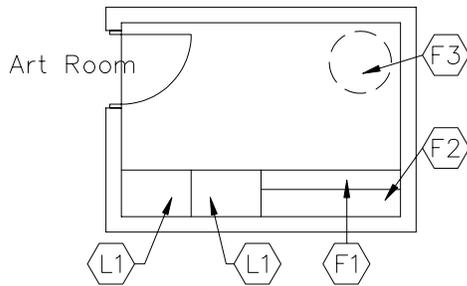
**ART ROOM
H-VA-1**

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<u>Fixed Items:</u>	
Vinyl composition tile, linoleum, VET, sheet vinyl, sealed concrete, or rubber	096516 096500 033000	F1 3'-4' sink base cabinet with wall cabinets above or wash fountains	123550 123550
Base:		F2 3' of tall wardrobe with file drawers	123550
Resilient base	096500	F3 10'-12' of base and wall cabinets	123550
Ceiling:		F4 10'-20' of tack board	101100
Suspended, acoustical	085113	F5 12'-16' of chalk/marker board	101100
Walls:		F6 Pencil sharpener support	062000
Painted concrete masonry units	042000/099100	F7 Windows with integral blinds	085113
		F8 6'-10' of tall storage cabinets	123550
		F9 Towel dispenser	102813
		F10 Projection screen (optional)	115213
		F11 Technology support casework	123550
		F12 Emergency eyewash	224000
		<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Student work tables		Sinks with solids interceptor	224000
L2 Student chairs or stools		Plumbing connections 224000/221116/221119	224000
L3 Teacher desk and chair and teacher computer support		Emergency eyewash connections	224000
L4 Computer workstation furniture		<u>HVAC:</u>	
L5 Desk height file cabinet		Supply/return air system	Div. 23
Wastebasket		Independent temperature control	230923
Pencil sharpener		Manually controlled general exhaust	Div. 23
<u>EQUIPMENT</u>		<u>Electrical:</u>	
E1 Drying rack		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		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
		<u>Communications:</u>	
		T1 1 video port	271533/271543
		T2 1 voice port and phone	271513/273113
		T3 1 data port near teacher workstation	271513
		T4 4 data ports (minimum) for student use	271513
		Clock	275313
		Central sound system	275123
		Sound reinforcement system	275127
		T5 Overhead projector	274119
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Potter wheels by owner	

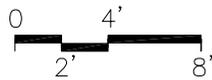
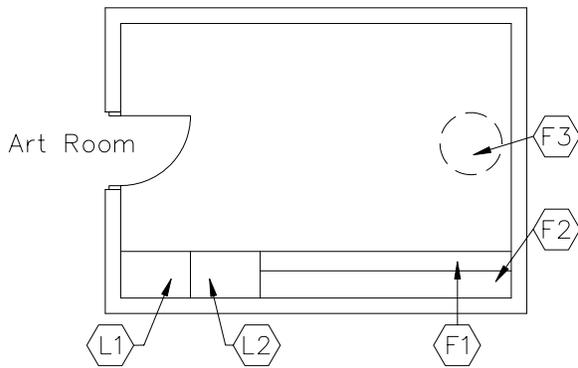
NOTES:

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.

100 SF



200 SF



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:

- Uniform lighting
- Ventilation controlled by a thermostat

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

NOTES:

KILN/CERAMIC STORAGE
H-VA-2

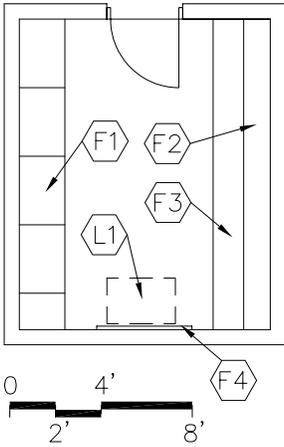
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Sealed concrete	033000	F1 4'-6' of base cabinets	123550
		F2 4'-6' of wall cabinets	123550
Base:		F3 Kiln	119200
Resilient base	096500		
Ceiling:		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
Walls:		<u>Plumbing:</u>	
Painted concrete masonry units	042000/099100	N/A	
		<u>HVAC:</u>	
<u>LOOSE FURNISHINGS:</u>		Temperature controlled exhaust	Div. 23
L1 Tall dry storage units		Ventilation for kiln	Div. 23
L2 Tall damp storage units		<u>Electrical:</u>	
L1 and L2 could be fixed casework.		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		1 duplex receptacle	262726
		Electrical connection for kiln	262726
		<u>Communications:</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

200 SF

Art Room



PROGRAM ACTIVITIES:

- Storage of art supplies and materials

SPATIAL RELATIONSHIPS:

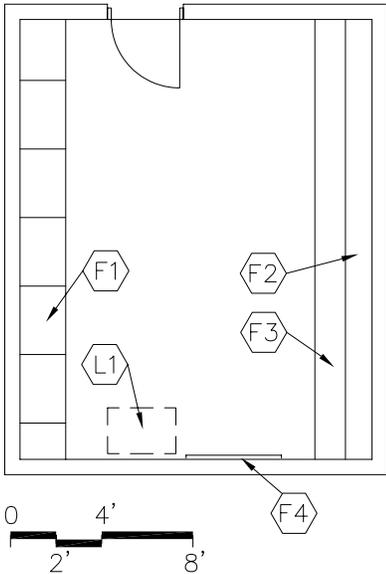
- Adjacent to art room

ENVIRONMENTAL CONSIDERATIONS:

- Stain-resistant floor covering

300 SF

Art Room



CAPACITY:

N/A

SIZE:

200 - 400 SF

ANCILLARY SPACES:

Art Room

H-VA-1

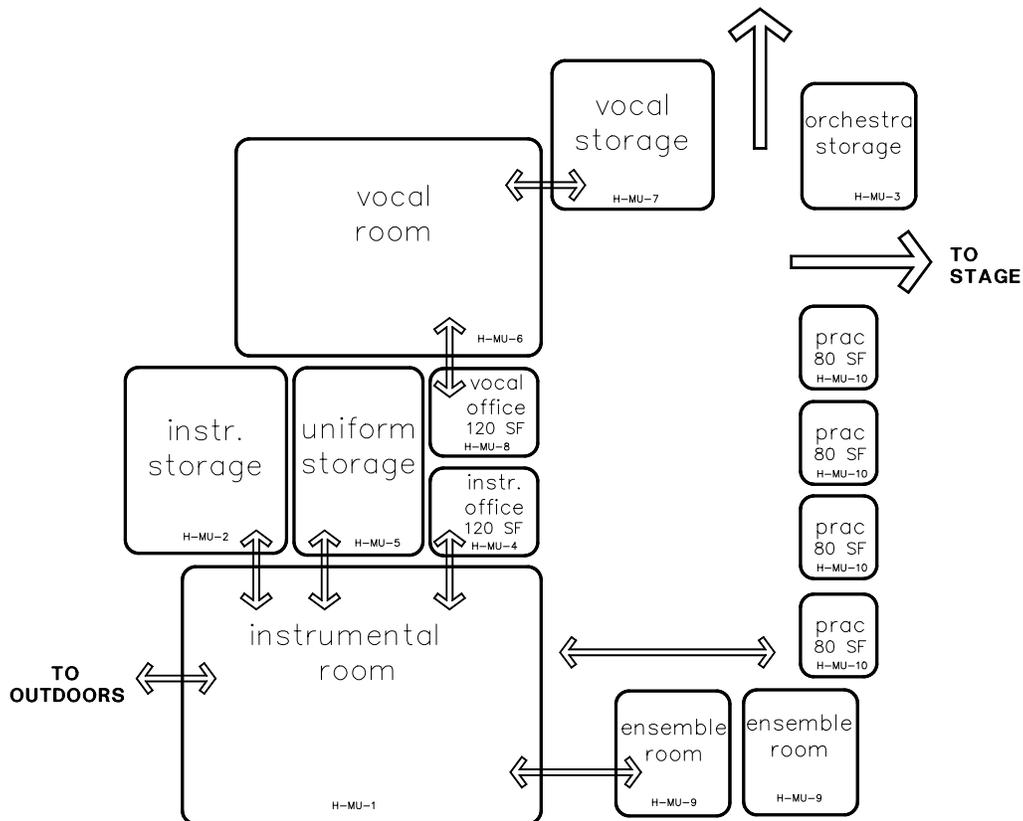
NOTES:

**ART MATERIAL STORAGE
H-VA-3**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Vinyl composition tile, VET, or or sheet vinyl	096500	F1 12'-20' tall storage cabinets	123550
		F2 12'-20' base cabinets (depth for school's need)	123550
Base:		F3 12'-20' wall cabinets	123550
Resilient base	096500	F4 Tackboard (optional)	101100
Ceiling:		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
Walls:		<u>Plumbing:</u>	
Painted concrete masonry unit		N/A	
	042000/099100	<u>HVAC:</u>	
<u>LOOSE FURNISHINGS:</u>		Exhaust air system	Div. 23
L1 Mobile materials cart		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		Duplex receptacle above base cabinet	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



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:

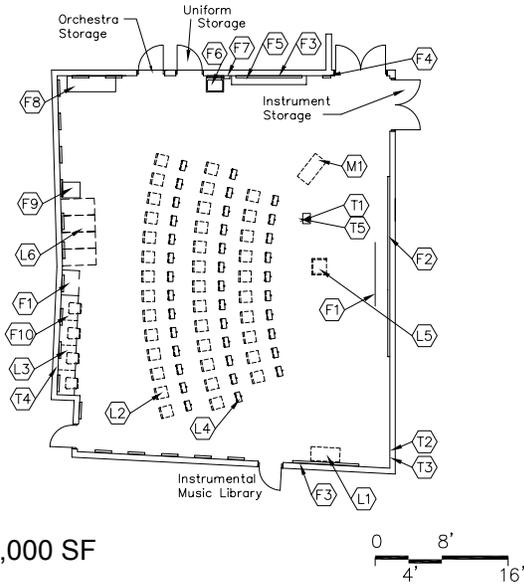
- H-MU-1 Instrumental Room
- H-MU-2 Instrument Storage
- H-MU-3 Orchestra Storage
- H-MU-4 Instrumental Music Library
- H-MU-5 Uniform Storage
- H-MU-6 Vocal Room
- H-MU-7 Vocal Storage
- H-MU-8 Vocal Music Library
- H-MU-9 Ensemble Room
- H-MU-10 Practice Room

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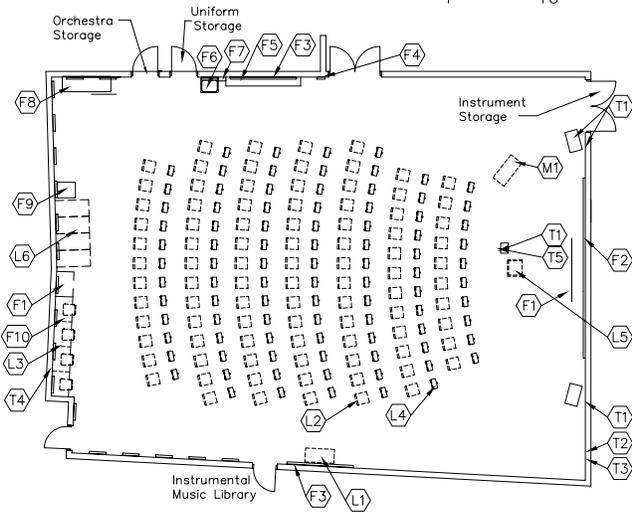
**INSTRUMENTAL ROOM
H-MU-1**

CHAPTER 6: HIGH SCHOOL

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:

- Uniform lighting
- 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.

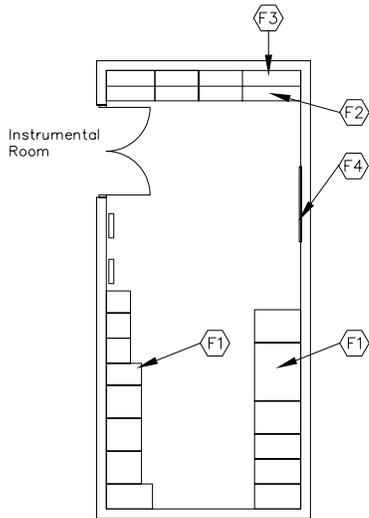
**INSTRUMENTAL ROOM
H-MU-1**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet, vinyl composition tile,	096500	F1 Projection screen (optional)	115213
linoleum, rubber, VET,	096516	F2 8'-16' of chalk/marker board	
or sheet vinyl	096816	with staff lines	101100
<u>Base:</u>		F3 4'-16' of tack board	101100
Resilient	096500	F4 Pencil sharpener support	062000
<u>Ceiling:</u>		F5 4'-9' of bookcases	123550
Suspended, acoustical	095113	F6 3' sink base cabinet	123550
<u>Walls:</u>		F7 Towel dispenser	102813
Painted concrete masonry units		F8 Wardrobe (optional in storage room)	
042000 /099100		F9 Stereo cabinet (optional)	
Acoustical wall treatment		F10 Technology support casework	123550
(varies with geometry of room)	098000		
absorptive 25%, reflective 25%,		<u>Fire Suppression:</u>	
diffusive 50%		Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Mobile sheet music cabinet		Sink, 10" deep	224000
L2 Music chairs and caddies		<u>HVAC:</u>	
L3 Computer workstation furniture		Supply/return air system	Div. 23
L4 Music stands		Independent temperature control	230923
L5 Conducting podium		<u>Electrical:</u>	
L6 Mobile percussion instrument storage		Fluorescent lighting:	265100
cabinet		illumination level: see table 8600-4	
Wastebasket		Multilevel switching	262726
Pencil sharpener		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
		<u>Communications:</u>	
		T1 1 video port	271533/271543
		T2 1 voice port and phone	271513/273113
		T3 1 data port	271513
		T4 4 data ports for student use	271513
		Clock	275313
		Central sound system	275123
		High school music sound system	275126
		T5 Overhead projector	274119
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Doors are to have acoustic trim accessories or	
		sound doors.	
		The following items are to be funded by the school	
		district:	
		M1 Piano	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Sink could be in storage room.

400 SF



PROGRAM ACTIVITIES:

- Storage of band instruments

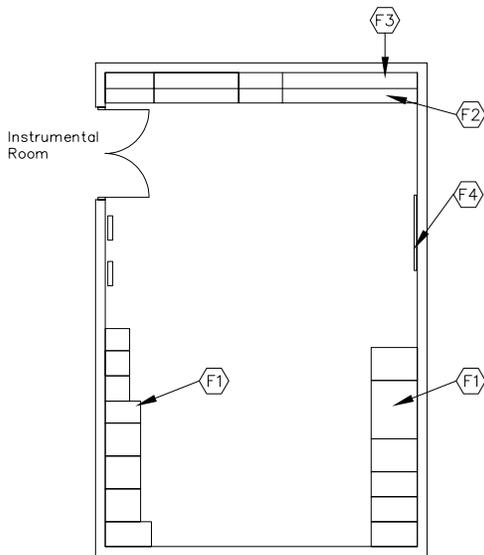
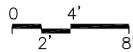
SPATIAL RELATIONSHIPS:

- 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

700 SF



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

NOTES:

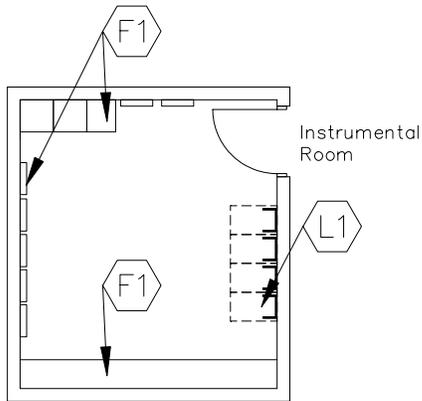
**INSTRUMENT STORAGE
H-MU-2**

<u>FINISHES</u> ¹ :	Spec. Ref.#	<u>FEATURES</u> :	Spec. Ref.#
Flooring:		<u>Fixed Items</u> ² :	
Vinyl composition tile	096500	F1 Miscellaneous instrument storage Cabinets and racks	123550
Base:		F2 3'-5' of base cabinets (optional)	123550
Resilient base	096500	F3 3'-5' of wall cabinets (optional)	123550
Ceiling:		F4 4' of tack board (optional)	101100
Suspended, acoustical	095113	<u>Fire Suppression:</u>	
Walls:		Fire suppression system	211000
Painted concrete masonry units	042000/099100	<u>Plumbing:</u>	
		Plumbing connections	224000/221116/221119
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
Wastebasket		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Fluorescent lighting:	265100
		Illumination level: See Table 8600-4	
		Single level switching	262726
		1 duplex receptacle	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

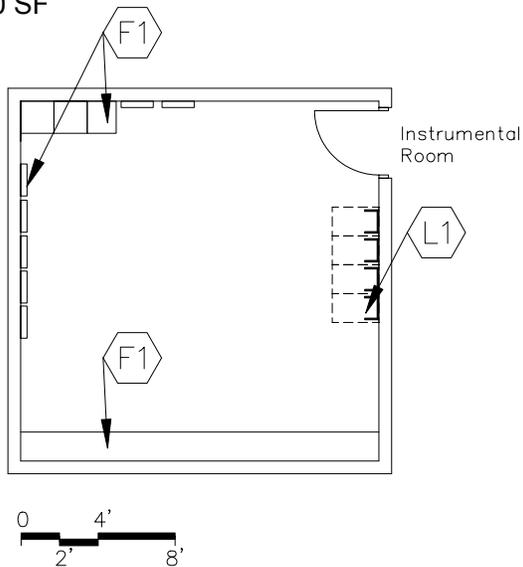
NOTES:

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

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

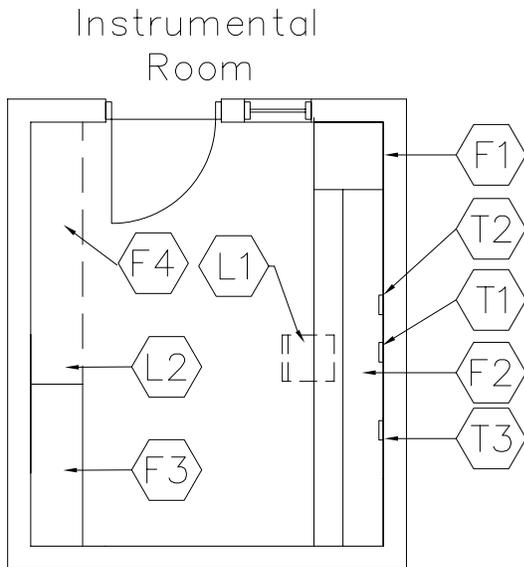
NOTES:

**ORCHESTRA STORAGE
H-MU-3**

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES:</u>	
Flooring:		<u>Fixed Items:</u>	
Vinyl composition tile	096500	F1 Miscellaneous instrument storage Cabinets and racks	123550
Base:		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Suspended, acoustical	095113	N/A	
Walls:		<u>HVAC:</u>	
Painted concrete masonry units	042000 /099100	Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
L1 Carts for large instruments		Fluorescent lighting:	265100
		Illumination level: See Table 8600-4	
		Single level switching	262726
		1 duplex receptacle	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



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:

- Uniform lighting
- 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**

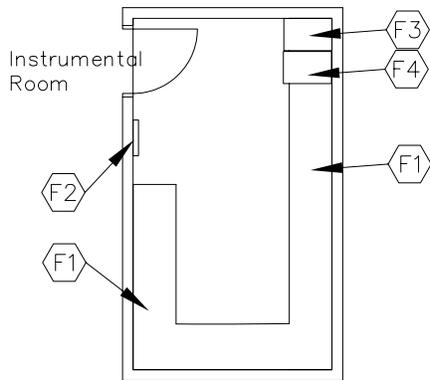
CHAPTER 6: HIGH SCHOOL

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<u>Fixed Items:</u>	
Carpet	096816	F1 2' tall wardrobe	123550
Base:		F2 Work surface with file drawers	123550
Resilient base	096500	F3 2'-4' tall storage cabinet (optional)	123550
Ceiling:		F4 Shelving or mobile music storage shelving	123550 105626
Suspended, acoustical	095113	F5 4' of tack board (optional)	101100
Walls:		<u>Fire Suppression:</u>	
Painted gypsum wallboard over metal studs	092116/099100	Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Chair		N/A	
L2 Sheet music storage		<u>HVAC:</u>	
Wastebasket		Supply/return air system	Div. 23
		Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to data and video port	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/273113
		T2 1 data port near workstation	271513
		T3 1 video port	271533/271543
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

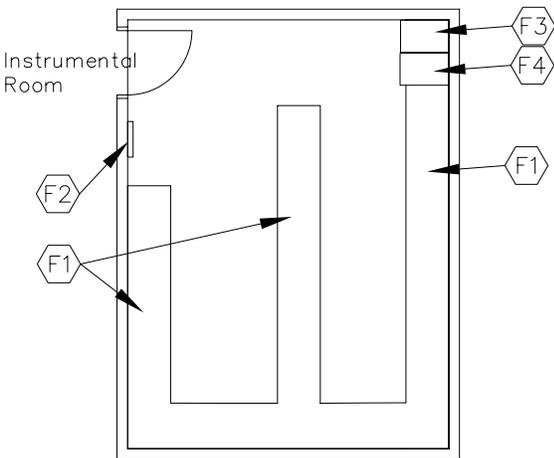
NOTES:

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

150 SF



300 SF



PROGRAM ACTIVITIES:

- Storage of instrumental uniforms

SPATIAL RELATIONSHIPS:

- Adjacent to instrumental room

ENVIRONMENTAL CONSIDERATIONS:

N/A

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

NOTES:

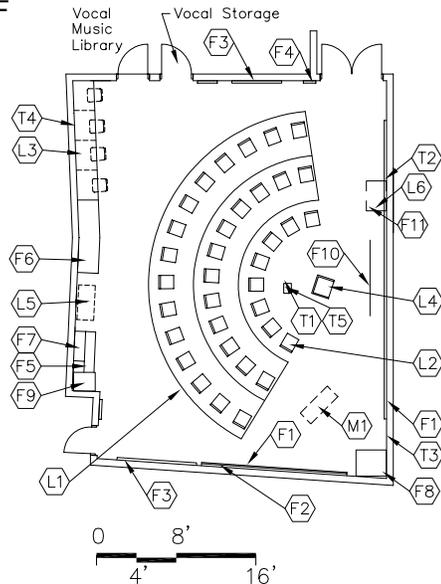
**UNIFORM STORAGE
H-MU-5**

<u>FINISHES</u> ¹ :	Spec. Ref.#	<u>FEATURES</u> :	Spec. Ref.#
Flooring:		<u>Fixed Items</u> ² :	
Vinyl composition tile	096500	F1 20'-44' of uniform and hat storage cabinets	123550
Base:		F2 20" x 60" mirror (optional)	102813
Resilient base	096500	F3 Tall cabinets (optional)	123550
Ceiling:		F4 Bins for auxiliary core equipment (optional)	123550
Suspended, acoustical	095113	<u>Fire Suppression:</u>	
Walls:		Fire suppression system	211000
Painted concrete masonry units	042000/099100	<u>Plumbing:</u>	
		N/A	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
N/A		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Fluorescent lighting:	265100
		Illumination level: see table 8600-4	
		Single level switching	262726
		1 Duplex receptacle	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

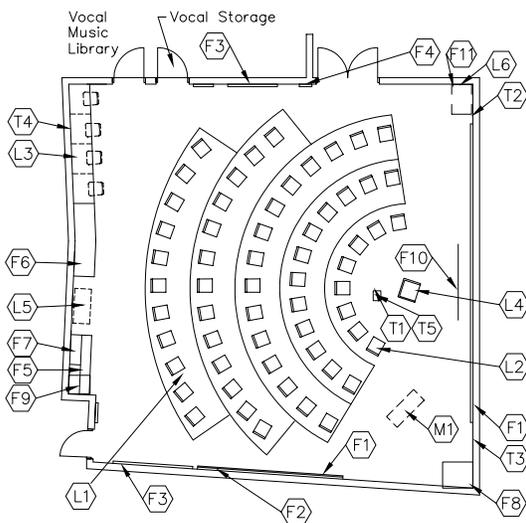
NOTES:

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

- Uniform lighting
- 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.

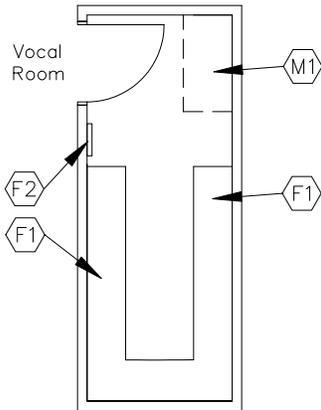
**VOCAL ROOM
H-MU-6**

	Spec. Ref.#	FEATURES ¹ :	Spec. Ref.#
FINISHES¹:		Fixed Items:	
Flooring:		F1 5'-6' high mirror mounted 12" above floor	088300
Carpet	096816	F2 8'-16' of chalk/marker board with staff lines (optional)	101100
Optional: vinyl composition tile, linoleum, rubber, VET, or sheet vinyl	096500 096516	F3 8'-16' of tack board	101100
Base:		F4 Pencil sharpener support	062000
Resilient	096500	F5 4'-6' of base cabinets (optional)	123550
Ceiling:		F6 3'-6' of tall storage cabinet	123550
Suspended acoustical	095113	F7 4'-6' of wall cabinets (optional)	123550
Absorptive 25%, reflective 25%, diffusive 50%		F8 Stereo cabinet (optional)	123550
Walls:		F9 3' of tall wardrobe (optional)	123550
Painted concrete masonry units	042000/099100	F10 Projection screen (optional)	115213
Acoustical wall treatment (varies with geometry of room)	098000	F11 Technology support casework	123550
LOOSE FURNISHINGS:		Fire Suppression:	
L1 Portable risers		Fire suppression system	211000
L2 Music chairs and caddies		Plumbing:	
L3 Computer workstation furniture		N/A	
L4 Conducting podium		HVAC:	
L5 Mobile sheet music cabinet		Supply/return air system	Div. 23
L6 Teacher computer workstation		Independent temperature control	230923
Wastebasket		Electrical:	
Pencil sharpener		Fluorescent lighting:	265100
		Illumination level: See Table 8600-4	
		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 video ports	271533/271543
		T2 1 voice port and phone	271513/273113
		T3 1 data port	271513
		T4 4 data ports for student use	271513
		Clock	275313
		High school sound system	275126
		Central sound system	275123
		T5 Overhead projector	274119
		Electronic Safety and Security:	
		Life safety devices per code	283111
		Miscellaneous:	
		Gasketing on doors or sound doors	
		The following item is to be funded by the owner:	
		M1 Piano & electronic keyboard(s)	

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.

150 SF



PROGRAM ACTIVITIES:

- Secure storage of choir costumes, tuxedos, and risers

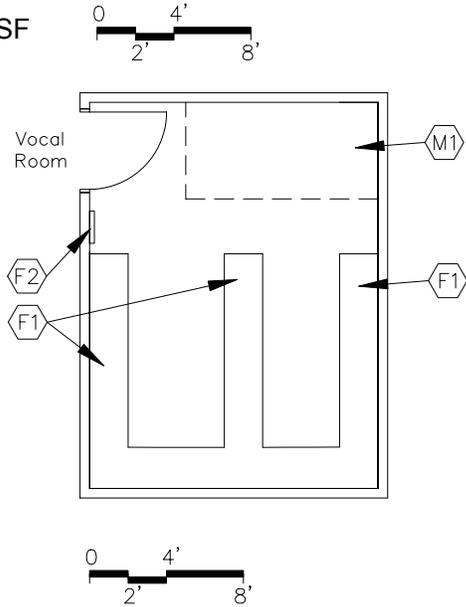
SPATIAL RELATIONSHIPS:

- Adjacent to vocal room

ENVIRONMENTAL CONSIDERATIONS:

N/A

300 SF



CAPACITY:

N/A

SIZE:

150-400 SF

ANCILLARY SPACES:

Vocal Room

H-MU-6

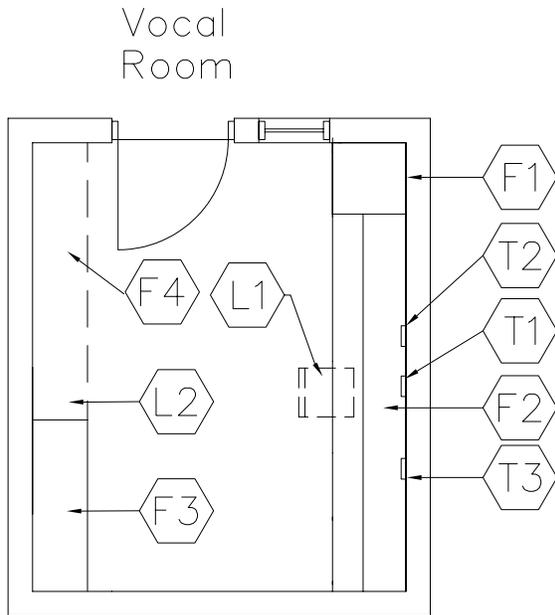
NOTES:

**VOCAL STORAGE
H-MU-7**

<u>FINISHES</u> ¹ :	Spec. Ref.#	<u>FEATURES</u> :	Spec. Ref.#
Flooring:		<u>Fixed Items</u> ² :	
Vinyl composition tile	096500	F1 20'-40' of high robe storage cabinets	123550
		F2 20" x 60" mirror (optional)	102813
Base:		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Suspended, acoustical	095113	N/A	
Walls:		<u>HVAC:</u>	
Painted concrete masonry units	042000 /099100	To be determined by Design Professional	
		Supplemental heating as required	Div. 23
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
N/A		Fluorescent lighting:	265100
		Illumination level: See Table 8600-4	
		Single level switching	262726
		1 duplex receptacle	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		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.



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:

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

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

NOTES:

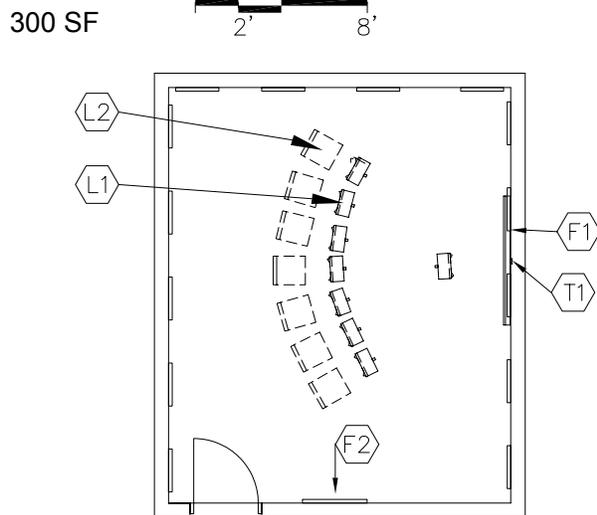
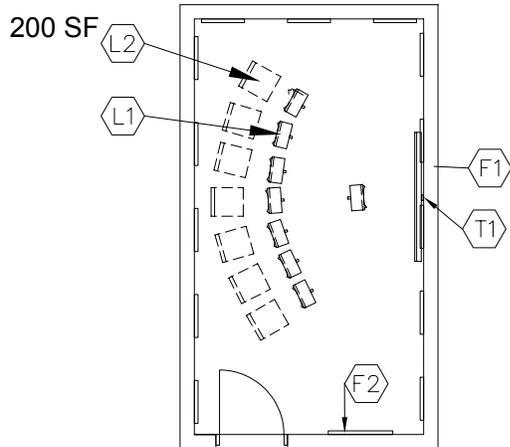
1. Loose furnishings shown represent one of many possible arrangements.

**VOCAL MUSIC LIBRARY
H-MU-8**

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<u>Fixed Items:</u>	
Carpet	096816	F1 2' tall wardrobe	123550
Base:		F2 Work surface with file drawers	123550
Resilient base	096500	F3 2'-4' tall storage cabinet	123550
Ceiling:		F4 Shelving or mobile storage shelving	123550 105626
Suspended, acoustical	095113	F5 4' of tack board (optional)	101100
Walls:		<u>Fire Suppression:</u>	
Painted gypsum wallboard over metal studs	092116/099100	Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Chair		N/A	
L2 Sheet music storage		<u>HVAC:</u>	
Wastebasket		Supply/return air system	Div. 23
		Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to data and video port	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/273113
		T2 1 data port near workstation	271513
		T3 1 video port	271533/271543
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



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:

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

NOTES:

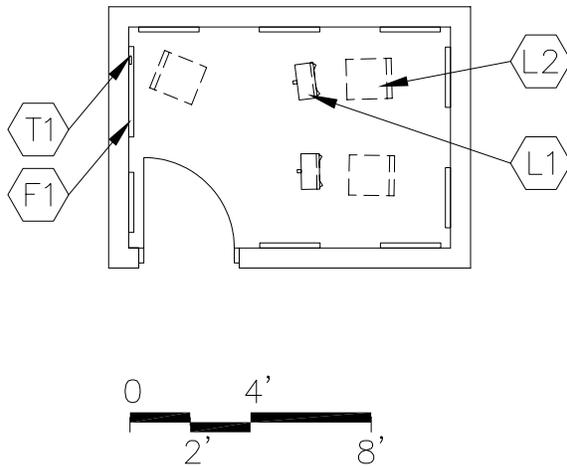
1. Loose furnishings shown represent one of many possible arrangements.

**ENSEMBLE ROOM
H-MU-9**

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES</u>¹:		<u>FEATURES:</u>	
Flooring:		<u>Fixed Items:</u>	
Carpet	096816	F1 4'-6' of marker board (optional)	101100
		F2 4' of tack board (optional)	101100
Base:		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Suspended, acoustical absorptive 25%, reflective 25%, diffusive 50%	095113	N/A	
Walls:		<u>HVAC:</u>	
Painted concrete masonry units	042000/099100	Supply/return air system	Div. 23
Acoustical wall treatment (varies with geometry of room)	098000	Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
L1 Music stands		Fluorescent lighting:	265100
L2 Music chairs		Illumination level: See Table 8600-4	
		Single level switching	262726
		3 duplex receptacles	262726
		<u>Communications:</u>	
		Clock	275313
		Central sound system	275123
		T1 1 data port	271513
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Provide 4' door	
		Gasketing on doors or sound doors	

NOTES:

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



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:

- Uniform lighting
- Environmental sound control -
wall minimum STC 60
ceiling minimum CAC 35, NRC 0.70
- Access capability

CAPACITY: 1 - 2 students
SIZE: 80 SF

NOTES:

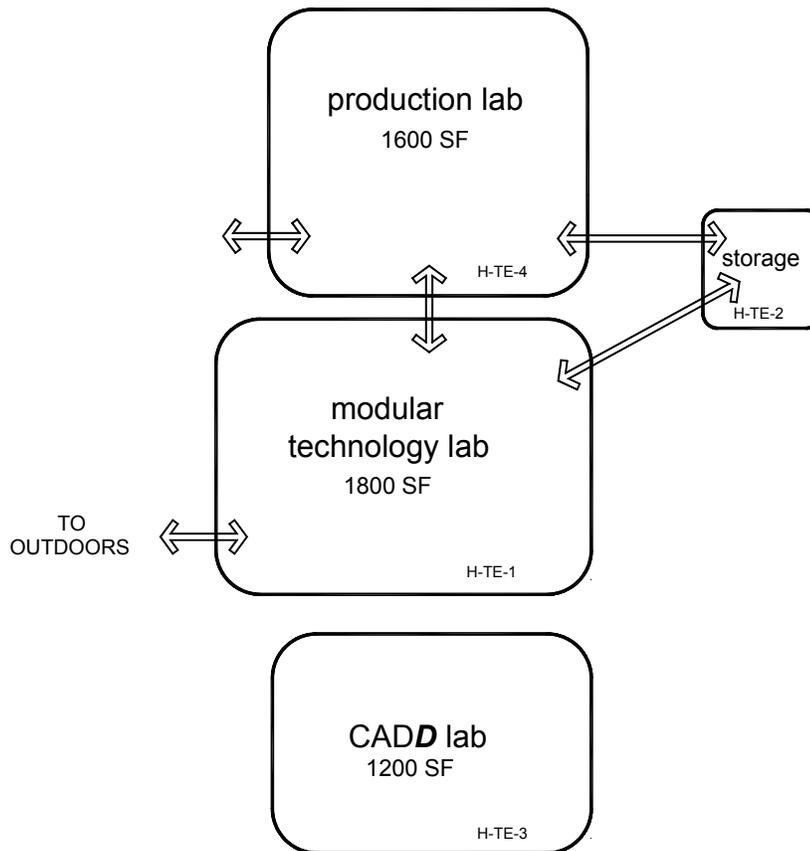
1. Loose furnishings shown represent one of many possible arrangements.

**PRACTICE ROOM
H-MU-10**

<u>FINISHES</u> ¹ :	Spec. Ref.#	<u>FEATURES</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Carpet	096816	F1 3' wide x 5' high mirror mounted 12" above finish floor (optional)	088300
Base:		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Suspended, acoustical	095113	N/A	
Absorptive 25%, reflective 25%, diffusive 50%		<u>HVAC:</u>	
Walls:		Supply/return air system	Div. 23
Painted concrete masonry units	042000/099100	Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
Acoustical wall treatment (varies with geometry of room)	098000	<u>Electrical:</u>	
<u>LOOSE FURNISHINGS:</u>		Fluorescent lighting:	265100
L1 Music stands		Illumination level: See Table 8600-4	
L2 Music chairs		Single level switching	262726
		2 duplex receptacles	262726
		<u>Communications:</u>	
		Central sound system	275123
		T1 1 data port	271513
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Gasketing on doors or sound doors	

NOTES:

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

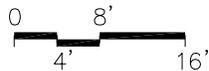
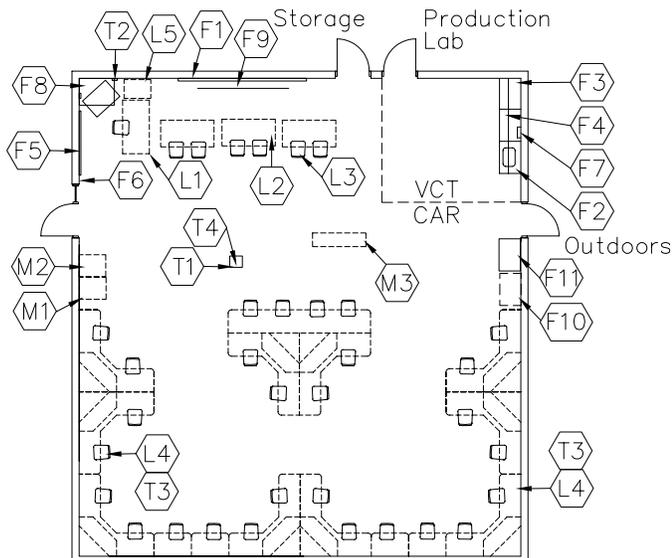
**NOTE:**

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

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:

- Uniform lighting with 80% visual comfort probability level
- Environmental sound control -
 wall minimum STC 50
 ceiling minimum CAC 35, NRC **0.70**
- Resilient floor covering

NOTES:

1. Loose furnishings represent one of many possible arrangements.

**MODULAR TECHNOLOGY LAB
H-TE-1**

	Spec. Ref.#	FEATURES ¹ : Fixed Items:	Spec. Ref.#
<u>FINISHES¹:</u>			
Flooring:			
Vinyl composition tile, linoleum, rubber, VET, or sheet vinyl 4' width in front of cabinets	096500	F1 8'-16' of chalk/marker board	101100
	096516	F2 3' sink base cabinet	123550
Carpet	096816	F3 About 9' of wall cabinets	123550
		F4 About 6' of base cabinet with heavy duty counter top	123550
		F5 4'-10' of tack board	101100
Base:		F6 Pencil sharpener support	062000
Resilient base	096500	F7 Towel dispenser	102813
		F8 3' of tall wardrobe	123550
Ceiling:		F9 Projection screen (optional)	115213
Suspended, acoustical	095113	F10 Technology support casework	123550
		F11 Tall cabinet (optional)	123550
Walls:		<u>Fire Suppression:</u>	
Painted concrete masonry units	042000/099100	Fire suppression system	211000
		<u>Plumbing:</u>	
		Sink, 12" deep	224000
		Plumbing connections	224000/221116/221119
<u>LOOSE FURNISHINGS:</u>			
L1 Teacher desk/computer support and chair		<u>HVAC:</u>	
L2 Tables with heavy duty top		Supply/return air system	Div. 23
L3 Student stools/chairs		Independent temperature controls	230923
L4 Computer technology workstation		<u>Electrical:</u>	
L5 File cabinet		Fluorescent lighting with parabolic lenses	265100
Wastebasket		Illumination level: See Table 8600-4	
Pencil sharpener		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
		<u>Communications:</u>	
		T1 1 video port	271533/271543
		T2 1 voice port and phone	271513/273113
		T3 Classroom area network (25 data ports minimum)	271513
		Clock	275313
		Central sound system	275123
		Sound reinforcement system	275127
		T4 Overhead projector	274119
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
<u>Miscellaneous:</u>			
The following items are to be funded by the school district:			
M1 Classroom Area Network file server			
M2 Printer			
M3 Plotter			

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.

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

PROGRAM ACTIVITIES:

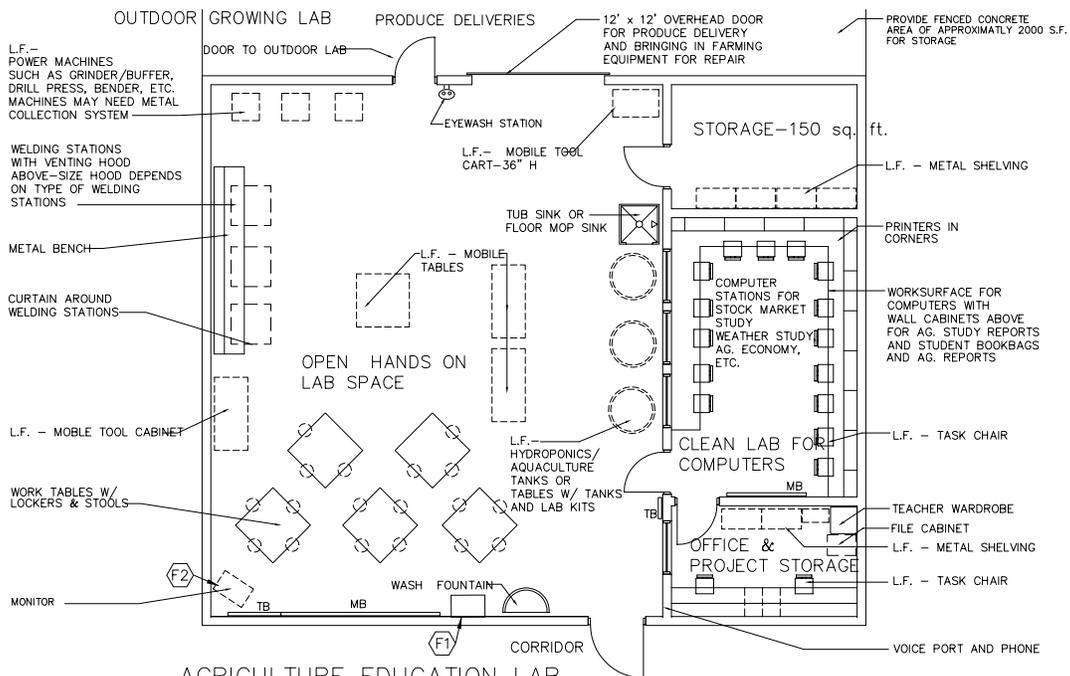
- Individual instruction in agriculture programs such as plant and animal science, soil management, natural resources and mechanical systems.
- Individual and group project work
- Equipment repair
- Small group meetings
- Lab activities related to curriculum

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting with 80% visual comfort probability level
- Environmental sound control- wall minimum STC 50 ceiling minimum CAC 35



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.

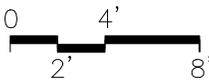
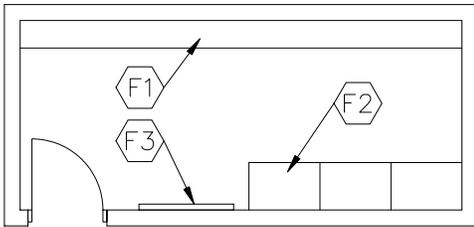
**AG-ED LAB
H-TE-1a**

<u>FINISHES¹:</u>	Spec. <u>Ref.#</u>	<u>FEATURES¹:</u>	Spec. <u>Ref.#</u>
<u>Flooring:</u>		<u>Fixed Items:</u>	
Sealed concrete	033000	8'-16' Chalk/marker board	101100
Carpet in clean lab	096816	Pencil sharpener support	062000
VCT in office/storage	096500	14' Wall and base cabinets	123550
		Workbenches with locker bases	123550
<u>Base:</u>		40' Work surface with heavy duty	
Resilient base	096500	countertop 36" high, with knee space	123550
		8' Tack board	101100
		2 towel dispensers	102813
<u>Ceiling:</u>		F1 3' tall storage cabinet	123550
Painted exposed structure	099100	F2 Technology support casework	123550
<u>Walls:</u>		<u>Fire Suppression:</u>	
Painted concrete masonry units	042000/099100	Fire suppression system	211000
		<u>Plumbing:</u>	
		Wash fountain	224000
		Plumbing connections	224000/221116/221119
		Tub sink or floor mop sink	224000
		Emergency eyewash station connection	224000
		Sanitary drainage products	221316
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
Tables with heavy duty tops		Supply/return air system	Div. 23
Waste receptacle		Independent temperature controls	230923
Task chairs		Localized welding station	
Metal shelving		venting hood	233515
Teacher wardrobe		<u>Electrical:</u>	
File cabinet		High intensity discharge lighting	265100
Pencil sharpener		Illumination level: See Table 8600-4	
Mobile tool cabinet		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
		<u>Communications:</u>	
		1 video port and video display device	
		271533/271543/274119	
		1 voice port and phone	271513/273113
		4 data ports	271513
		Clock	275313
		Central sound system	275123
		Sound reinforcement system	275127
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Plan for shop equipment as necessary	
		Overhead door	

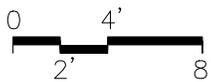
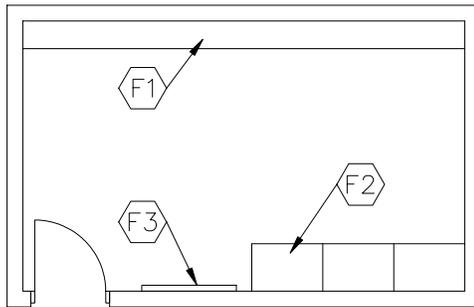
NOTES:

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

150 SF



200 SF



CAPACITY: N/A
 SIZE: 150 – 300 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

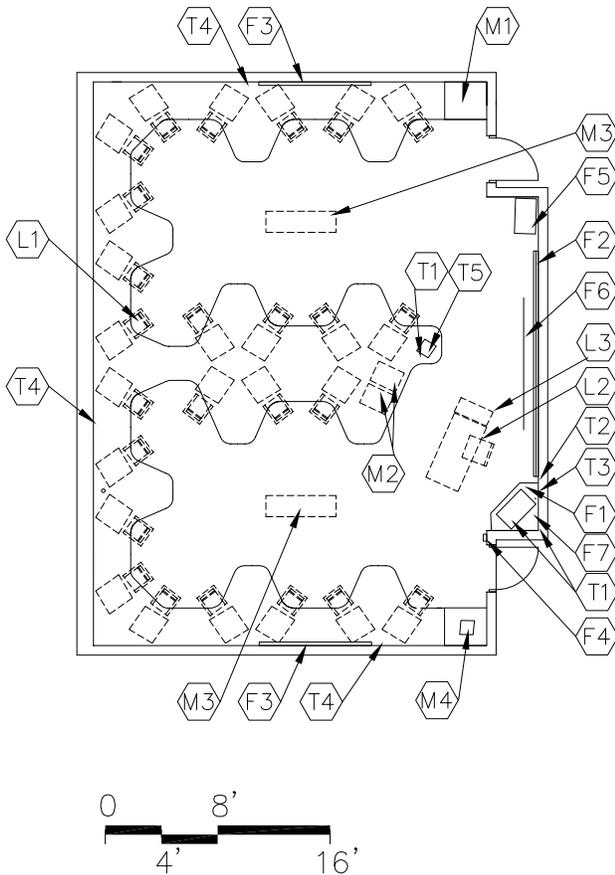
NOTES:

**STORAGE
H-TE-2**

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<u>Fixed Items:</u>	
Sealed concrete	033000	F1 10'-18' of open shelving depth may vary (fixed or loose)	123550
Base:		Option: mobile storage shelving	105626
Resilient base	096500	F2 4'-8' of tall storage cabinets	123550
Ceiling:		F3 4' of pegboard (optional)	102813
Suspended, acoustical	095113	<u>Fire Suppression:</u>	
Walls:		Fire suppression system	211000
Painted gypsum wallboard over metal studs	092116/099100	<u>Plumbing:</u>	
<u>LOOSE FURNISHINGS:</u>		N/A	
N/A		<u>HVAC:</u>	
		To be determined by Design Professional	
		<u>Electrical:</u>	
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



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:

- Uniform lighting with 80% visual comfort probability
- Environmental sound control -
wall minimum STC 50
ceiling minimum CAC 35, NRC **0.70**
- Flexibility of space

CAPACITY:
SIZE:

25 students
1,200 SF

NOTES:

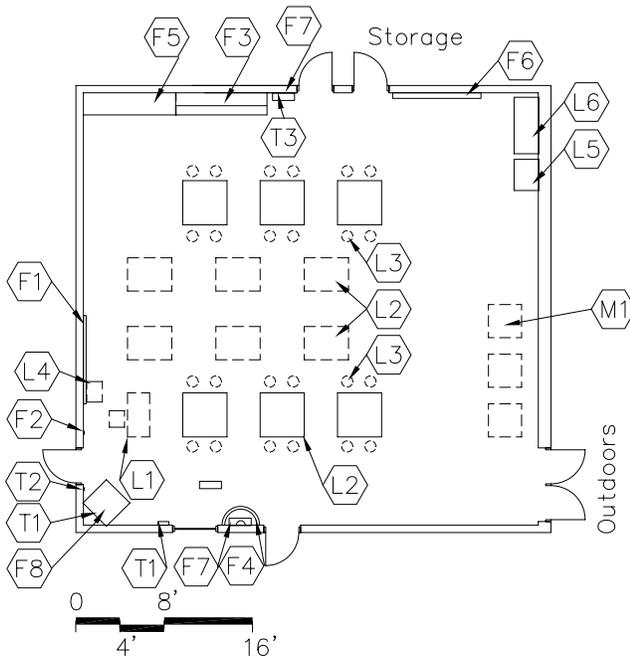
1. Loose furnishings shown represent one of many possible arrangements.

**CADD LAB
H-TE-3**

<u>FINISHES</u> ¹ :	Spec. <u>Ref.#</u>	<u>FEATURES</u> ¹ :	Spec. <u>Ref.#</u>
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet, VCT, VET, linoleum, or sheet vinyl	096816	F1 3' of tall wardrobe with file drawers	123550
	096500	F2 8'-16' of chalk/marker board	101100
	096516	F3 8'-16' of tack board	101100
<u>Base:</u>		F4 Pencil sharpener support	062000
Resilient base	096500	F5 4'-8' base and wall cabinets for printers and storage of paper, cartridges, etc.	123550
<u>Ceiling:</u>		F6 Projection screen (optional)	115213
Suspended, acoustical	095113	F7 Technology support casework	123550
<u>Walls:</u>		<u>Fire Suppression:</u>	
Painted concrete masonry units	042000 /099100	Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Computer workstation furniture		N/A	
L2 Teacher desk and chair		<u>HVAC:</u>	
L3 File cabinet		Supply/return air system	Div. 23
Wastebasket		Independent temperature control	230923
Pencil sharpener		<u>Electrical:</u>	
L1 could be fixed casework.		Fluorescent lighting with parabolic lenses	265100
		Illumination level: See Table 8600-4	
		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
		<u>Communications:</u>	
		T1 2 video ports	271533/271543
		T2 1 voice port and phone	271513/273113
		T3 1 data port near teacher workstation	271513
		T4 Classroom area network (25 data ports minimum)	271513
		Clock	275313
		Central sound system	275123
		T5 Overhead projector	274119
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Interior windows to production lab (optional)	
The following items are to be funded by the school district:			
M1 Classroom area network file server			
M2 Printers			
M3 Plotters			
M4 Scanner			

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.



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:

- Uniform lighting
- Environmental sound control -
 wall minimum STC 50
 ceiling minimum CAC 35, NRC **0.70**

NOTES:

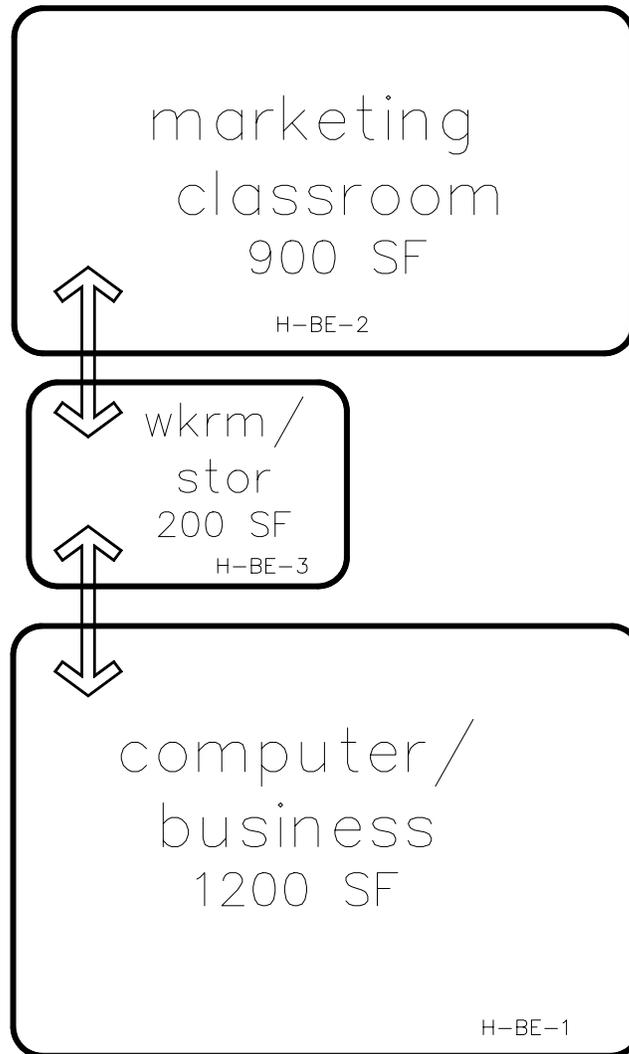
1. Loose furnishings represent one of many possible arrangements.
2. This is a multi-use space for vocational agriculture, wood shops, metal shops, or other industrial education laboratories.

**PRODUCTION LAB
H-TE-4**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Sealed concrete	033000	F1 8'-16' of chalk/marker board	101100
Base:		F2 Pencil sharpener support	062000
Resilient base	096500	F3 12'of wall and 12'of base cabinets	123550
Ceiling:		F4 Wash fountains	
Painted exposed structure	099100	F5 6'-12' of work surface with heavy duty countertop 36" high, with knee space	123550
Walls:		F6 6'-8' of tack board	101100
Painted concrete masonry units	042000 /099100	F7 2 towel dispensers	102813
		F8 Technology support casework	123550
<u>LOOSE FURNISHINGS:</u>		<u>Fire Suppression:</u>	
L1 Teacher desk/computer support and chair		Fire suppression system	211000
L2 Tables with heavy duty tops & lockers below		<u>Plumbing:</u>	
L3 Stools		Wash fountain	224000
L4 File cabinet		Plumbing connections	224000/221116/221119
L5 Mobile tool cabinet		<u>HVAC:</u>	
L6 Material storage racks		Supply/return air system	Div. 23
Waste receptacle		Independent temperature controls	230923
Pencil sharpener		Localized dust collection as necessary	Div. 23
		<u>Electrical:</u>	
		High intensity discharge lighting	265100
		Illumination level: See Table 8600-4	
		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
		<u>Communications:</u>	
		T1 1 video port and video display device	271533/271543/274119
		T2 1 voice port and phone	271513/273113
		T3 4 data ports	271513
		Clock	275313
		Central sound system	275123
		Sound reinforcement system	275127
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		M1 Shop equipment with localized dust collection as necessary.	

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.



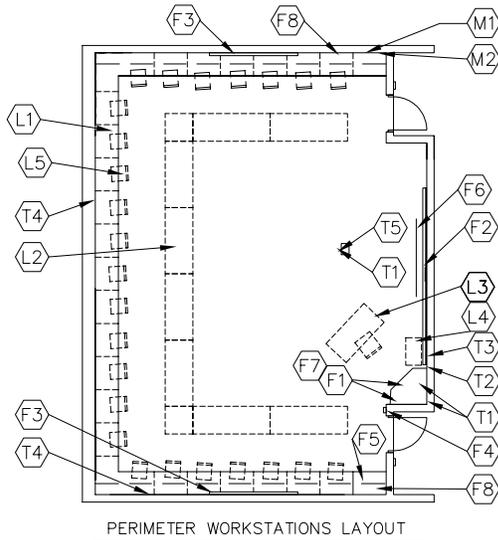
NOTE:

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.

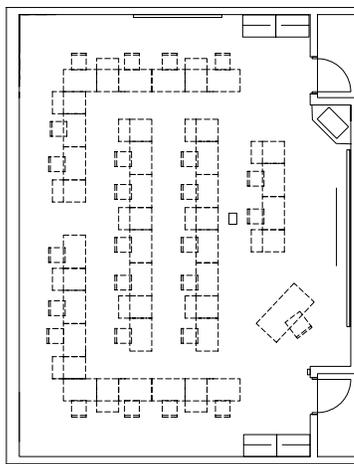
Following are the Business Education space plates:

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

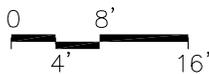
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PERIMETER WORKSTATIONS LAYOUT



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:

- Uniform lighting with 80% visual comfort probability level
- Environmental sound control -
 wall minimum STC 50
 ceiling minimum CAC 35, NRC **0.70**

NOTES:

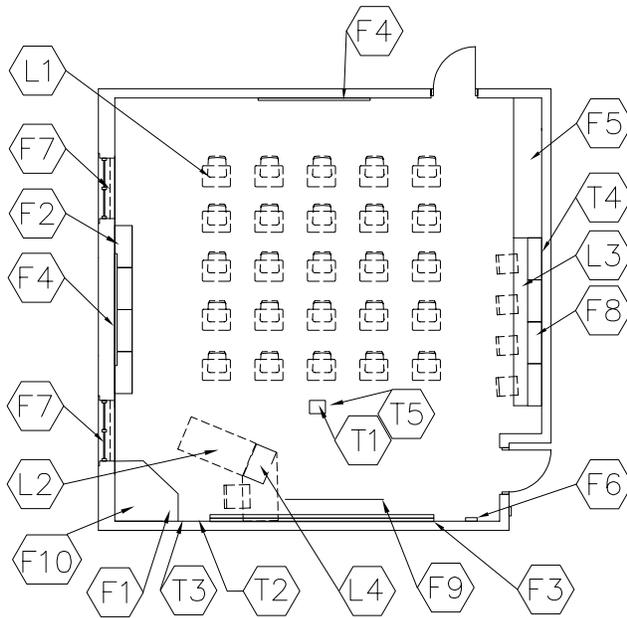
1. Loose furnishings shown represent one of many possible arrangements.

**COMPUTER AND BUSINESS CLASSROOM
H-BE-1**

<u>FINISHES</u> ¹ :	Spec. Ref.#	<u>FEATURES</u> ¹ :	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Carpet	096816	F1 3' of tall wardrobe with file drawers	123550
Optional: vinyl composition tile, VET, sheet vinyl, or rubber	096500	F2 8'-16' of chalk/marker board	101100
		F3 8'-16' of tack board	101100
		F4 Pencil sharpener support	062000
Base:		F5 Base cabinets	123550
Resilient base	096500	F6 Projection screen (optional)	115213
		F7 Technology support casework	123550
Ceiling:		F8 Wall cabinets for student book storage and program manuals	123550
Suspended, acoustical	095113		
Walls:		<u>Fire Suppression:</u>	
Painted concrete masonry units		Fire suppression system	211000
	042000/099100	<u>Plumbing:</u>	
		N/A	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Computer workstation furniture		Supply/return air system	Div. 23
L2 Work tables		Independent temperature control	230923
L3 Teacher desk/computer support and chair		<u>Electrical:</u>	
L4 File cabinet		Fluorescent lighting with parabolic lenses	265100
L5 Appropriate ergonomic chairs		Illumination level: See Table 8600-4	
Wastebasket		Multilevel switching	262726
Pencil sharpener		4 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
L1 could be fixed casework.		Emergency lighting per code	265100
		Means of egress lighting per code	265100
		<u>Communications:</u>	
		T1 2 video ports	271533/271543
		T2 1 voice port and phone	271513/273113
		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 Overhead projector	274119
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		The following items are to be funded by the school district:	
		M1 Classroom Area Network file server (optional)	
		M2 Printer	

NOTES:

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



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:

- Uniform lighting
- Natural light opening equal to minimum 5% of floor area, with an operable vent
- Environmental sound control -
wall minimum STC 50
ceiling minimum CAC 35, NRC **0.70**

NOTES:

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

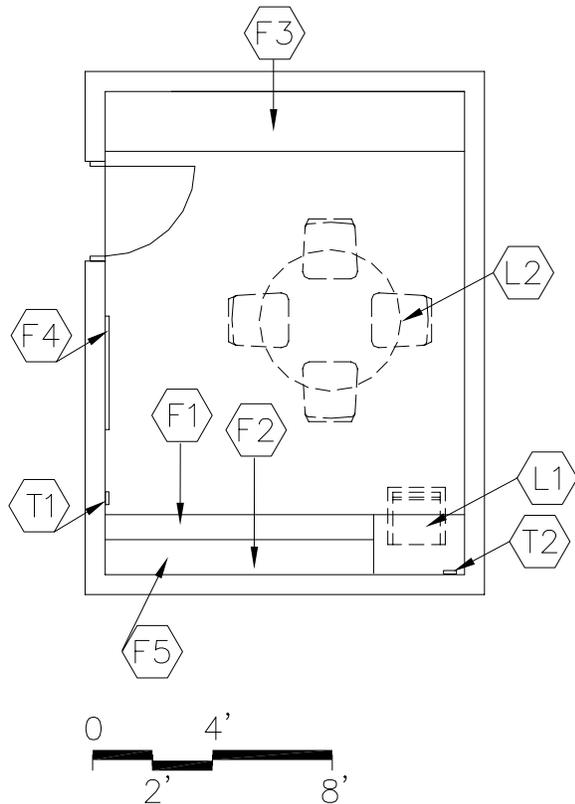
**MARKETING CLASSROOM
H-BE-2**

<u>FINISHES</u> ¹ :	Spec. Ref.#	<u>FEATURES</u> ¹ :	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet	096816	F1 3' of tall wardrobe with file drawers	123550
Optional: vinyl composition tile, linoleum, VET, sheet vinyl, or rubber	096500 096516	F2 6'-10' of bookcases	123550
		F3 10'-16' of chalk/marker board	101100
		F4 8'-16' of tack board	101100
		F5 6'-10' of base cabinets	123550
		F6 Pencil sharpener support	062000
<u>Base:</u>		F7 Windows with integral blinds	085113
Resilient base	096500	F8 6'-10' of wall cabinets	123550
		F9 Projection screen (optional)	115213
<u>Ceiling:</u>		F10 Technology support casework	123550
Suspended, acoustical	095113		
		<u>Fire Suppression:</u>	
<u>Walls:</u>		Fire suppression system	211000
Painted concrete masonry units	042000/099100	<u>Plumbing:</u>	
		N/A	
		<u>HVAC:</u>	
<u>LOOSE FURNISHINGS:</u>		Supply/return air system	Div. 23
L1 Student desks and chairs		Independent temperature control	230923
L2 Teacher desk/computer support and chair		<u>Electrical:</u>	
L3 Computer workstation furniture		Fluorescent lighting:	265100
L4 Desk height file cabinet		Illumination level: See Table 8600-4	
Wastebasket		Multilevel switching	262726
Pencil sharpener		4 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u>	
		T1 1 video port	271533/271543
		T2 1 voice port and phone	271513/273113
		T3 1 data port near teacher workstation	271513
		T4 4 data ports (minimum) for student use	271513
		Clock	275313
		Central sound system	275123
		Sound reinforcement system	275127
		T5 Overhead projector	274119
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

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:

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

NOTES:

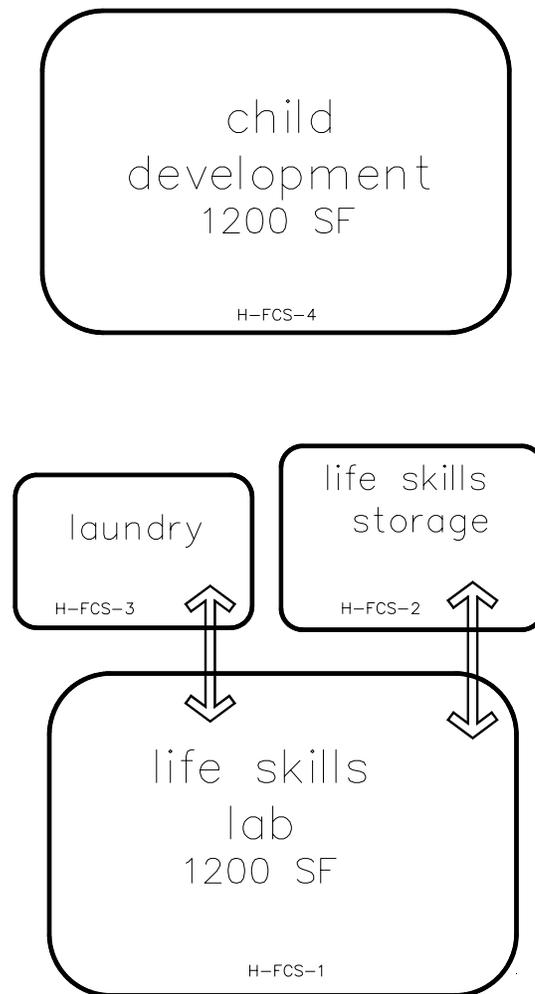
1. Loose furnishings shown represent one of many possible arrangements.

**WORKROOM/STORAGE
H-BE-3**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items²:</u>	
Carpet, VCT, VET, linoleum, or sheet vinyl	096816	F1 6'-9' of base cabinets	123550
	096500	F2 6'-9' of wall cabinets	123550
	096516	F3 12'-24' of tall storage cabinets or bookshelves	123550
<u>Base:</u>		F4 4' of tack board or tackable wall surface	101100
Resilient base	096500	F5 Work surface (optional)	123550
<u>Ceiling:</u>		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
<u>Walls:</u>		<u>Plumbing:</u>	
Painted concrete masonry units	042000 /099100	N/A	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Computer workstation furniture		Supply/return air system	Div. 23
L2 Tables and chairs		Independent temperature control	230923
Wastebasket		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		illumination level: See Table 8600-4	
		2 duplex receptacles	262726
		Double duplex receptacle adjacent to each data port	262726
		Duplex receptacle for office-type equipment	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/273113
		T2 1 data port	271513
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



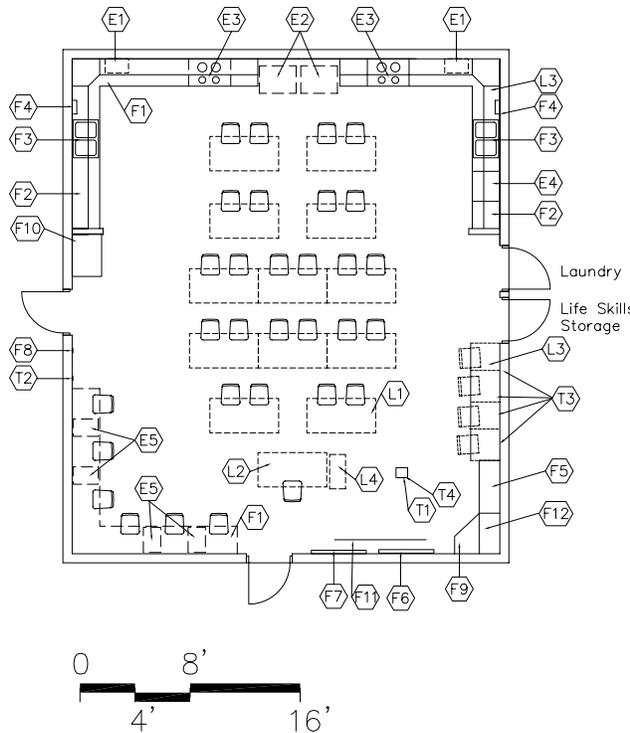
NOTE:

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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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:

- Uniform lighting
- Environmental sound control - wall minimum STC 50
ceiling minimum CAC 35, NRC **0.70**
- Resilient floor covering

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

NOTES:

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

**LIFE SKILLS LAB
H-FCS-1**

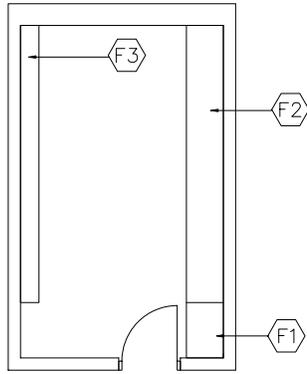
CHAPTER 6: HIGH SCHOOL

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<u>Fixed Items:</u>	
Vinyl composition tile, linoleum, VET, sheet vinyl, or rubber	096500 096516	F1 Base cabinets	123550
		F2 Wall cabinets	123550
		F3 Double bowl sink base cabinet	123550
		F4 2 towel dispensers	102813
Base:		F5 4'-8' of bookcases (optional)	123550
Resilient base	096500	F6 8'-16' of chalk/marker board	101100
		F7 8'-16' of tack board	101100
Ceiling:		F8 Pencil sharpener support	062000
Suspended, acoustical	095113	F9 3' of tall wardrobe with file drawers	123550
		F10 3'-9' of tall storage cabinets (could have trays)	123550
Walls:		F11 Projection screen (optional)	115213
Painted concrete masonry units	042000/099100	F12 Technology support casework	123550
		<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Tables and chairs		Double sinks	224000
L2 Teacher desk/computer support and chair		Plumbing connections	224000/221116/22119
L3 Computer workstation furniture		Garbage disposals (optional)	
L4 File cabinet		<u>HVAC:</u>	
Wastebaskets		Supply/return air system	Div. 23
Pencil sharpener		Manually operated exhaust air system	Div. 23
		Independent temperature controls	230923
<u>EQUIPMENT:</u>		<u>Electrical:</u>	
E1 Microwaves		Fluorescent lighting	265100
E2 Refrigerators		Illumination level: See Table 8600-4	
E3 Range and oven		Multilevel switching	262726
E4 Dishwasher		4 duplex receptacles	262726
E5 Sewing machines		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
		<u>Communications:</u>	
		T1 1 video port	271533/271543
		T2 1 voice port and phone	271513/273113
		T3 4 data ports for student use	271513
		Clock	275313
		Central sound system	275123
		Sound reinforcement system	275127
		T4 Overhead projector	274119
Miscellaneous:		<u>Electronic Safety and Security:</u>	
N/A		Life safety devices per code	283111

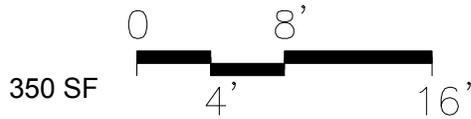
NOTES:

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.

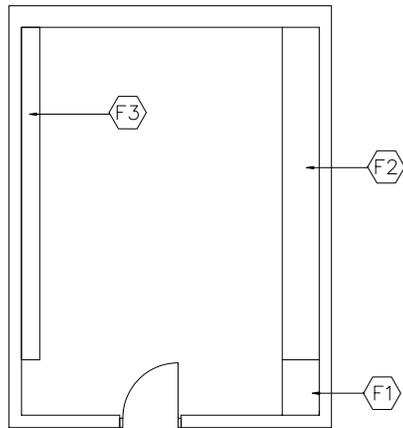
200 SF



Life Skills Lab



350 SF



Life Skills Lab

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

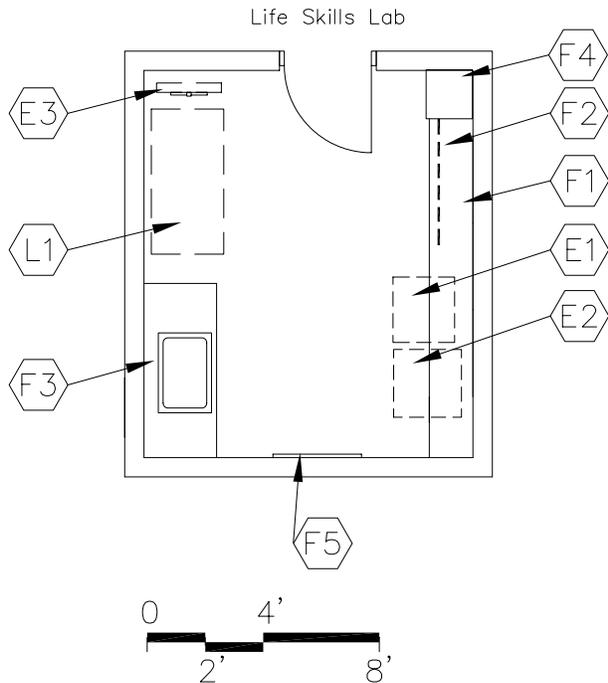
NOTES:

**LIFE SKILLS STORAGE
H-FCS-2**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items²:</u>	
Vinyl composition tile	096500	F1 3' of tall wardrobe (optional)	123550
Base:		F2 10'–18' of tall cabinets or wall & base cabinets	123550
Resilient base	096500	F3 10'–18' of open cabinets	123550
Ceiling:		Option: mobile storage shelving	105626
Suspended, acoustical	095113	<u>Fire Suppression:</u>	
Walls:		Fire suppression system	211000
Painted concrete masonry units	042000 /099100	<u>Plumbing:</u>	
		N/A	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
Supply cart		To be determined by Design Professional	
		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

- Uniform lighting
- 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

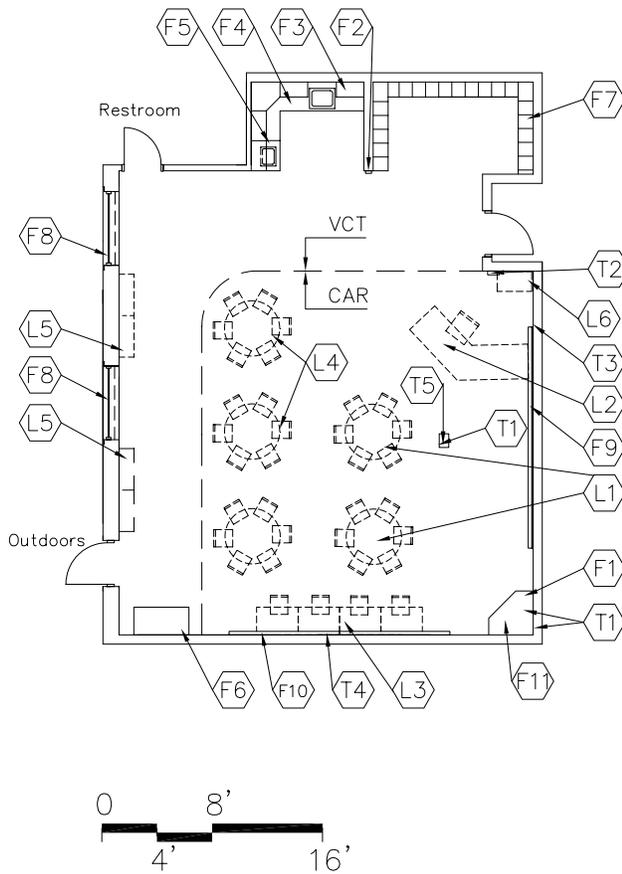
NOTES:

**LAUNDRY
H-FCS-3**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items¹:</u>	
Vinyl composition tile, linoleum, VET, or sheet vinyl	096516 096500	F1 14' of wall cabinets	123550 123550
Base:		F2 6' hanging bar/drying rack (optional)	
Resilient base	096500	F3 6' sink base cabinet	123550 123550
Ceiling:		F4 3' tall cabinet (optional)	
Suspended, acoustical	095113	F5 5' high mirror (optional)	102813
Walls:		<u>Fire Suppression:</u>	
Painted concrete masonry units	042000 /099100	Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Folding table		Sink, 12" deep	224000
Wastebasket		Plumbing connections	224000/221116/221119
<u>EQUIPMENT:</u>		<u>HVAC:</u>	
E1 Washer		Supplemental heat as required	Div. 23
E2 Electric dryer		Exhaust air system	Div. 23
E3 Ironing board		Exhaust for dryer	Div. 23
		<u>Electrical:</u>	
		Fluorescent lighting:	265100
		Illumination level: See Table 8600-4	
		Single level switching	262726
		2 duplex receptacles	262726
		Receptacle for electric dryer and washer	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



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:

- Uniform lighting
- Natural light opening equal to minimum 5% of floor area, with an operable vent
- Environmental sound control - walls minimum STC 50 ceiling minimum CAC 35, NRC **0.70**
- Resilient- and stain-resistant floor covering

NOTES:

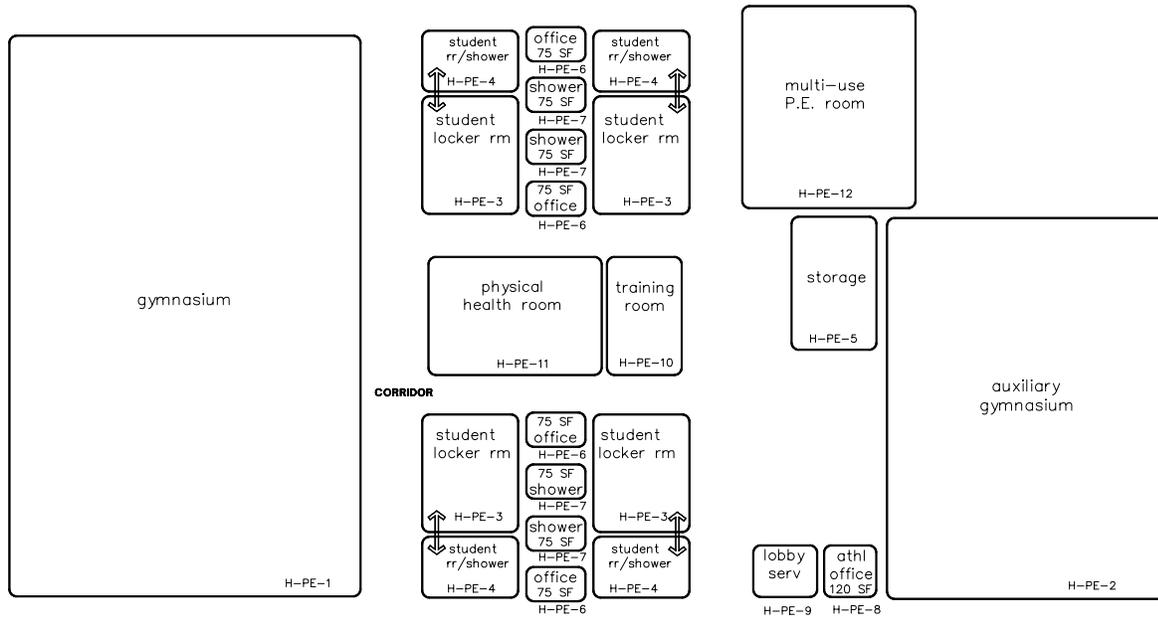
1. Loose furnishings shown represent one of many possible arrangements.

**CHILD DEVELOPMENT
H-FCS-4**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Combination of carpet and	096816	F1 3' of tall wardrobe with file drawers	123550
vinyl composition tile, linoleum,	096500	F2 Pencil sharpener support	062000
VET, sheet vinyl, or rubber	096516	F3 12' of wall cabinets	123550
		F4 3' of sink base cabinet, 36" high	123550
<u>Base:</u>		F5 3' of sink base cabinet, (ADA compliant)	123550
Resilient base	096500	F6 4' of tall storage cabinet	123550
<u>Ceiling:</u>		F7 Open casework - coats	123550
Suspended, acoustical	095113	F8 Windows with integral blinds	085113
<u>Walls:</u>		F9 8'-16' of chalk/marker board	101100
Painted concrete masonry units	042000/099100	F10 8'-16' of tack board or tackable wall surface	101100
		F11 Technology support casework	123550
<u>LOOSE FURNISHINGS:</u>		<u>Fire Suppression:</u>	
L1 Student desks and chairs		Fire suppression system	211000
L2 Teacher desk/computer support and chair		<u>Plumbing:</u>	
L3 Computer workstation furniture		2 sinks (1 with drinking fountain)	224000
L4 Tables and chairs for preschool children		Plumbing connections	224000/221116/221119
L5 Low mobile storage units		<u>HVAC:</u>	
L6 File cabinet		Supply/return air system	Div. 23
Wastebasket		Independent temperature control	230923
Pencil sharpener		<u>Electrical:</u>	
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		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
		<u>Communications:</u>	
		T1 1 video port	271533/271543
		T2 1 voice port and phone	271513/273113
		T3 1 data port near teacher workstation	271513
		T4 4 data ports (minimum) for student use	271513
		Clock	275313
		Central sound system	275123
		Sound reinforcement system	275127
		T5 Overhead projector	274119
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



NOTES:

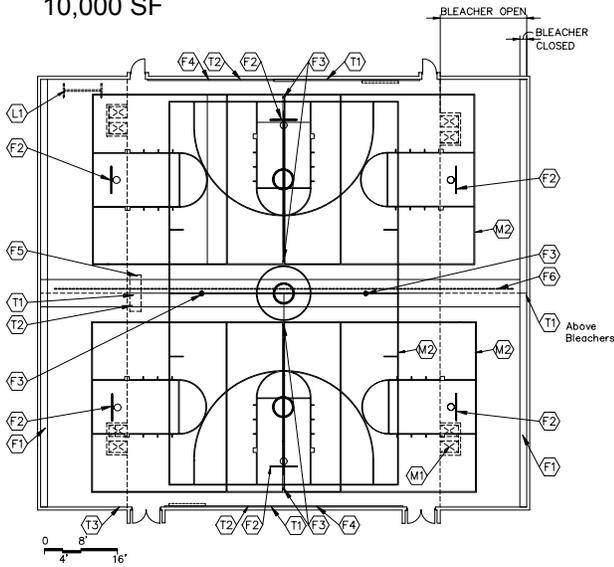
This is an example of how the physical education spaces in a high school could be arranged. This is meant only to demonstrate the relationships between various areas of the building.

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

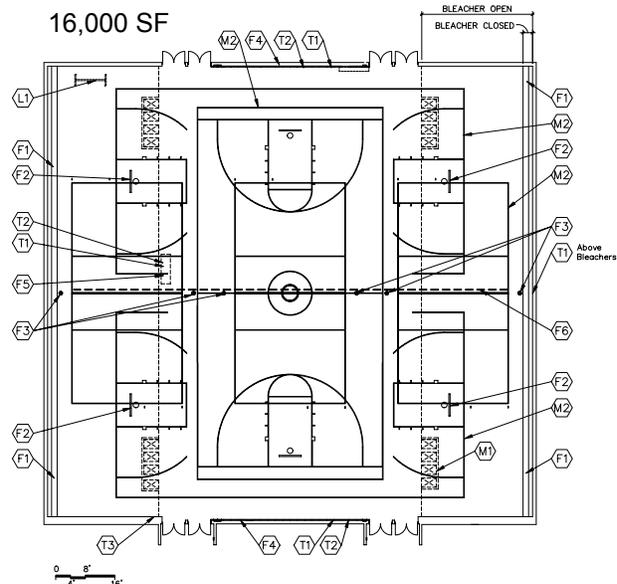
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10,000 SF



Please see page 6110-5 for an enlargement of this drawing.

16,000 SF



Please see page 6110-6 for an enlargement of this drawing.

CAPACITY: 60 – 75 Students
SIZE: 10,000 – 20,000 SF
ANCILLARY SPACES: Physical Education Storage
 H-PE-5

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

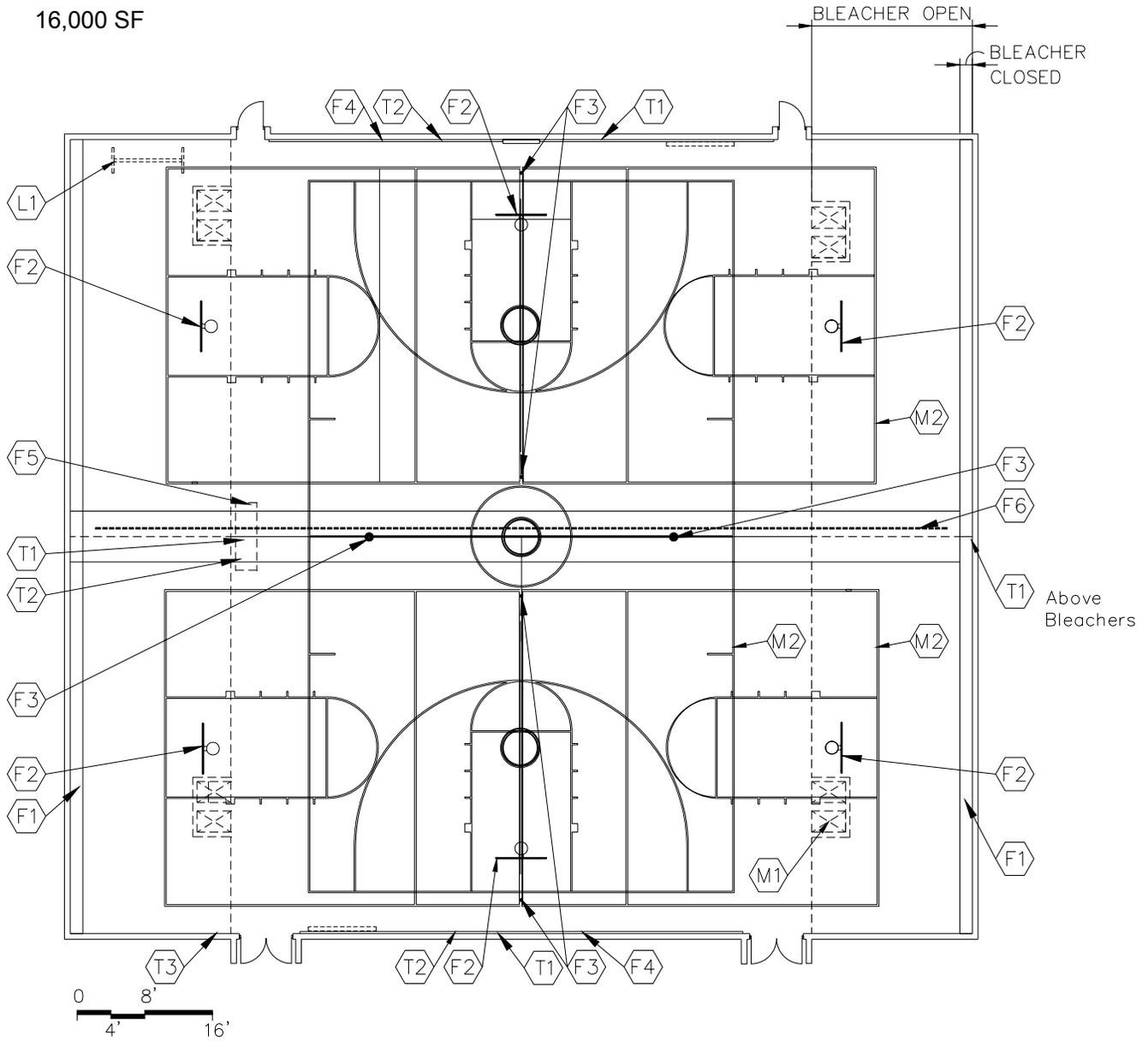
- Near locker rooms
- Adjacent to outdoors
- Near student dining

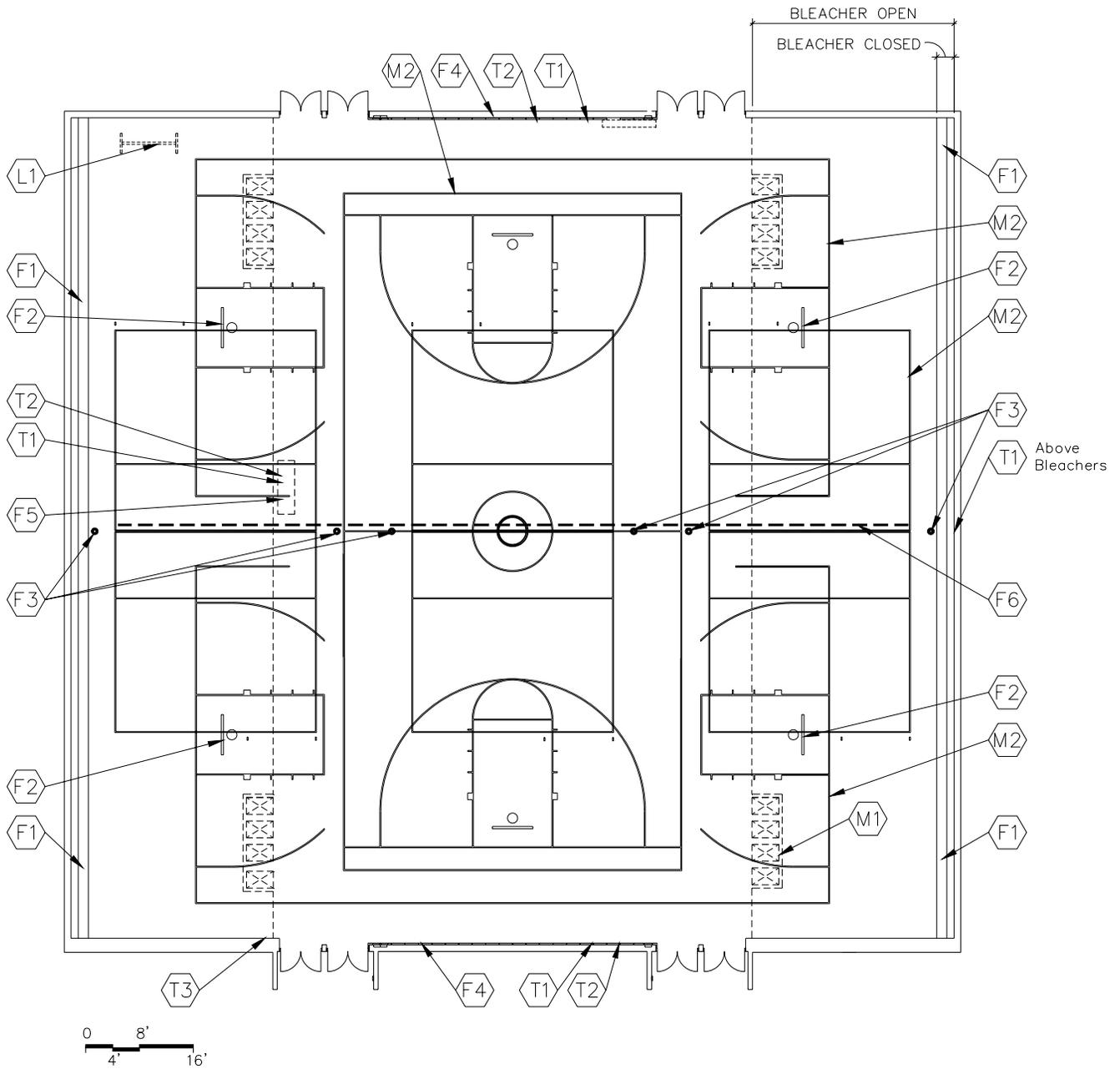
ENVIRONMENTAL CONSIDERATIONS:

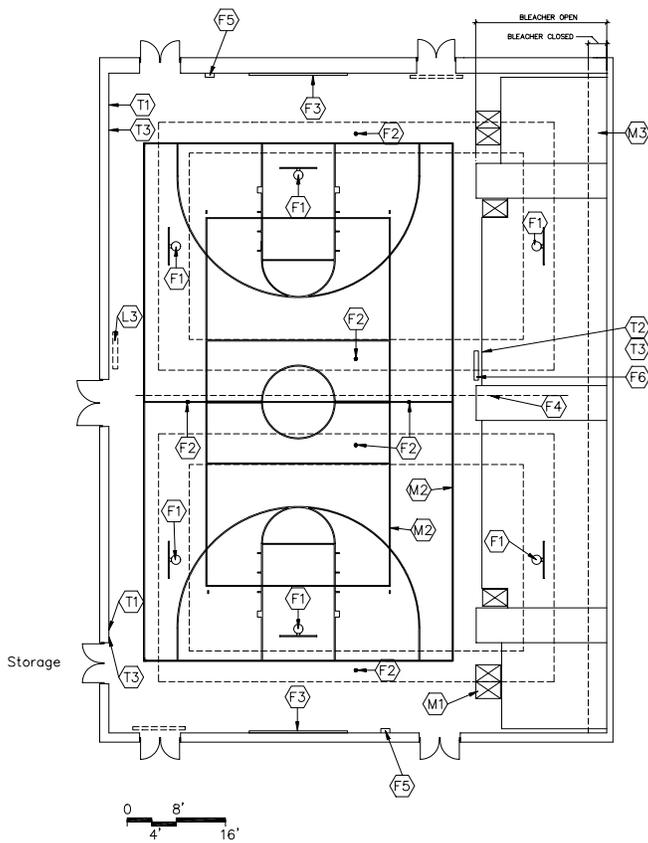
- Uniform lighting
- Environmental sound control - walls minimum **STC 60**
- Acoustical requirements and other factors as determined by final configuration of the space
- Clear height of 25' from floor to nearest obstruction

NOTES:

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







Please see page 6110-9 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:

- Uniform lighting
- Adequate sound control/acoustics
- Clear height of 25' from floor to nearest obstruction
- Environmental sound control - wall minimum STC **60**

NOTES:

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

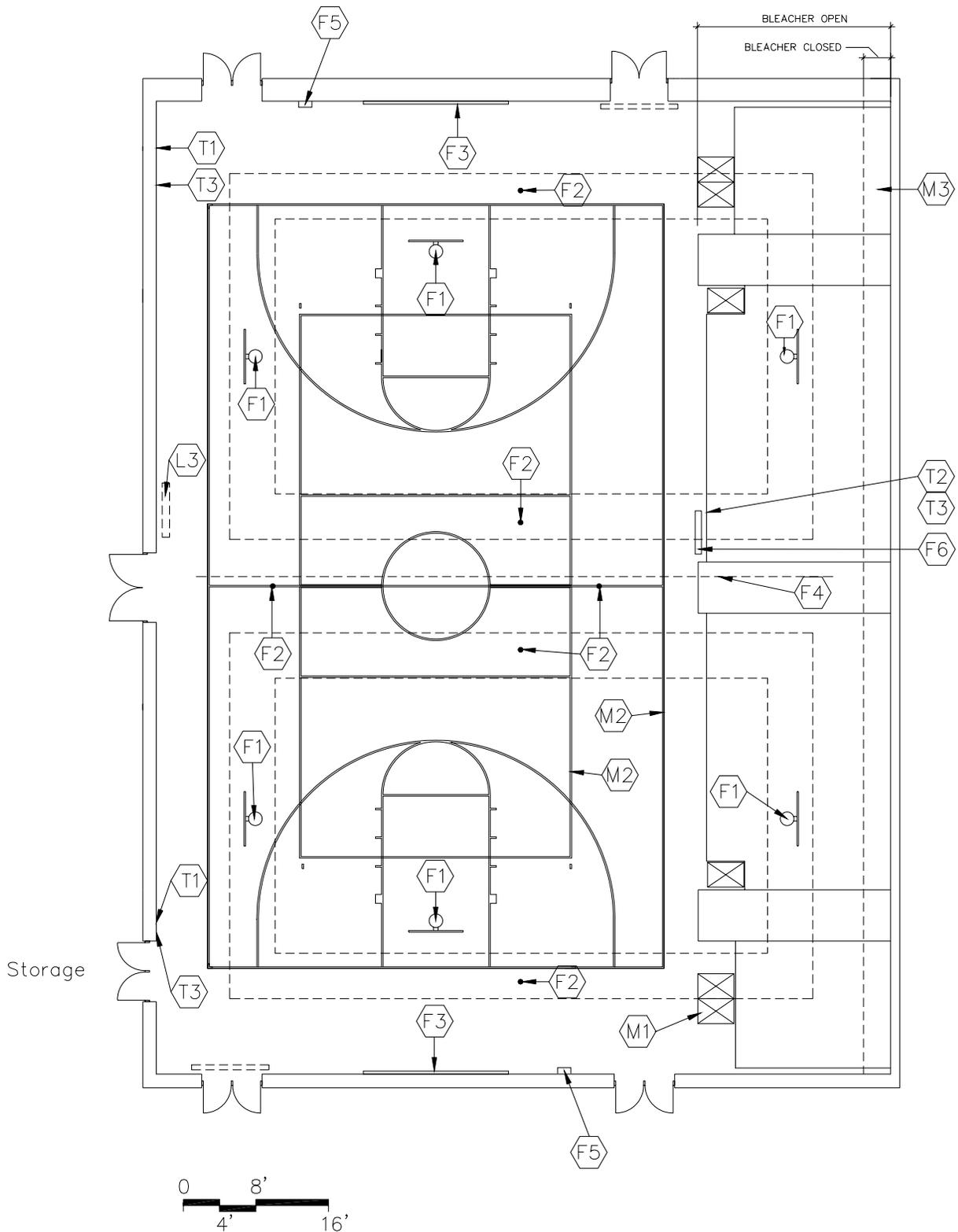
**AUXILIARY GYMNASIUM
H-PE-2**

CHAPTER 6: HIGH SCHOOL

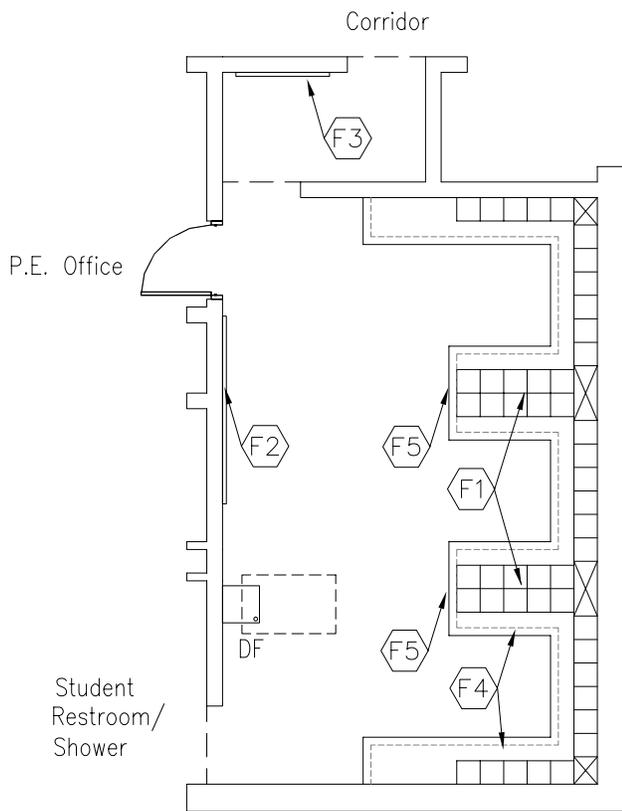
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Wood flooring	096466	F1 6 basketball backstops, glass	116623
		F2 Volleyball sleeves and standards on a cart	116623
<u>Base:</u>		F3 Safety wall wainscot	116623
Ventilated resilient base	096466	F4 Divider gym curtain	116623
<u>Ceiling:</u>		F5 Chin-up bar (optional)	116623
Painted exposed structure	099100	F6 Scorer's table (could be part of bleachers)	126600
<u>Walls:</u>		<u>Fire Suppression:</u>	
Painted concrete masonry units		Fire suppression system	211000
	042000/099100	<u>Plumbing:</u>	
Sound absorbing concrete masonry units on 2 walls or	042000	Plumbing connections	224000/221116/221119
abuse-resistant acoustical wall treatment		<u>HVAC:</u>	
<u>LOOSE FURNISHINGS:</u>		Supply/return air system	Div. 23
L1 Portable chalkboard		Independent temperature control	230923
<u>Miscellaneous:</u>		<u>Electrical:</u>	
M1 Handicapped seating		Single level switching	262726
M2 Court markings (minimum)		High intensity discharge lighting or fluorescent lighting	265100
74' x 50' main basketball court,		Illumination level: See Table 8600-4	
2 cross courts to fit		8 duplex receptacles	262726
Regulation volleyball courts		Double duplex receptacle adjacent to each data and video port	262726
Provide wire guards on light fixtures and wall- mounted electrical devices.		Emergency lighting per code	265100
The following item is to be funded by the school district:		Means of egress lighting per code	265100
M3 Telescoping stands		Electrical connections to P.E. equipment where necessary	262726
		Scoreboard (control outlets in the face of bleachers)	116643
		Telecommunications Grounding	270526/260526
		<u>Communications:</u>	
		T1 2 video ports, 1 monitor with cart	271533/271543/274119
		T2 1 voice port	271513/273113
		T3 2 data port	271513
		Clocks with wire guards	275313
		Central sound system	275123
		Gymnasium sound system	275124
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111

NOTES:

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



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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:

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

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

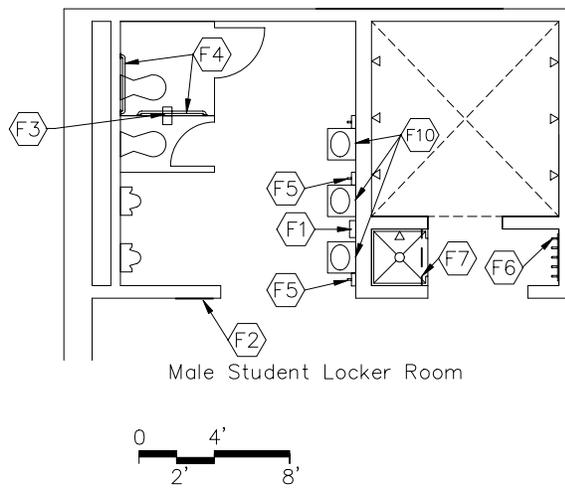
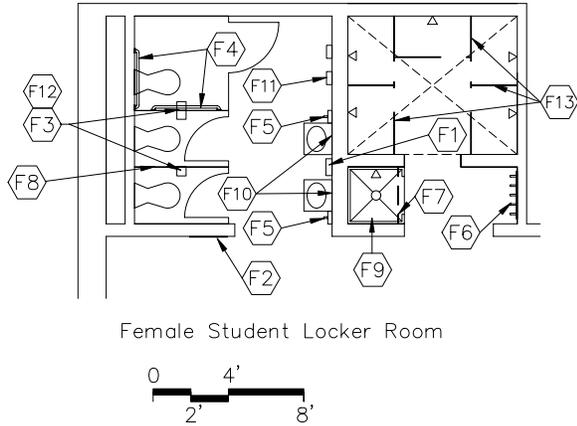
NOTES:

**STUDENT LOCKER ROOM
H-PE-3**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Vinyl or rubber sheet flooring,	096500	F1 Athletic lockers	105113
rubber tile, or	096723	F2 4'-8' of chalk/marker board (optional)	101100
resinous flooring		F3 4'-8' of tack board	101100
<u>Base:</u>		F4 Locker benches	062000
Resilient base or	096500	F5 Mirrors	102813
resinous flooring	096723	<u>Fire Suppression:</u>	
<u>Ceiling:</u>		Fire suppression system	211000
Suspended, acoustical with high-impact,		<u>Plumbing:</u>	
hold-down clips	095113	Drinking <i>fountain</i>	224000/224700
Option: Exposed, painted pre-cast units	099100	<u>HVAC:</u>	
<u>Walls:</u>		Supply air system	Div. 23
Painted concrete masonry units	042000/099100	Exhaust air system	Div. 23
		Independent temperature control	230923
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
Wastebaskets		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		2 duplex receptacles	262726
		Emergency lighting per code	265100
		Means of egress lighting per code	265100
		<u>Communications:</u>	
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



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:

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

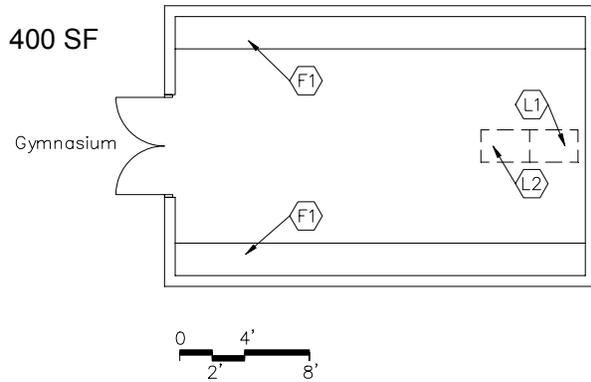
NOTES:

**STUDENT RESTROOM/SHOWER
H-PE-4**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		Fixed Items:	
Restroom: Vinyl, rubber sheet flooring, rubber tile, or resinous flooring	096500 093000 096723	F1 Towel dispensers	102813
Shower: Ceramic mosaic tile, porcelain tile, or resinous flooring		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
Base:		Fire Suppression:	
Restroom: Resilient base, resinous flooring, or integral vinyl cove base	096500 093000 096723	Fire suppression system	211000
Shower: Ceramic mosaic tile base, porcelain tile base, resinous flooring, or integral vinyl cove base		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 8600-4	
		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	
CEILING:			
Restroom: Suspended, acoustical with high-impact & hold-down clips	095113		
Shower: Painted portland cement plaster or interior finish system	092400/099100 092513		
Walls:			
Epoxy-painted concrete masonry units	042000 /099100		
or ceramic wall tile in showers and latex paint in restroom	093000 099100		
LOOSE FURNISHINGS:			
Wastebaskets			

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



PROGRAM ACTIVITIES:

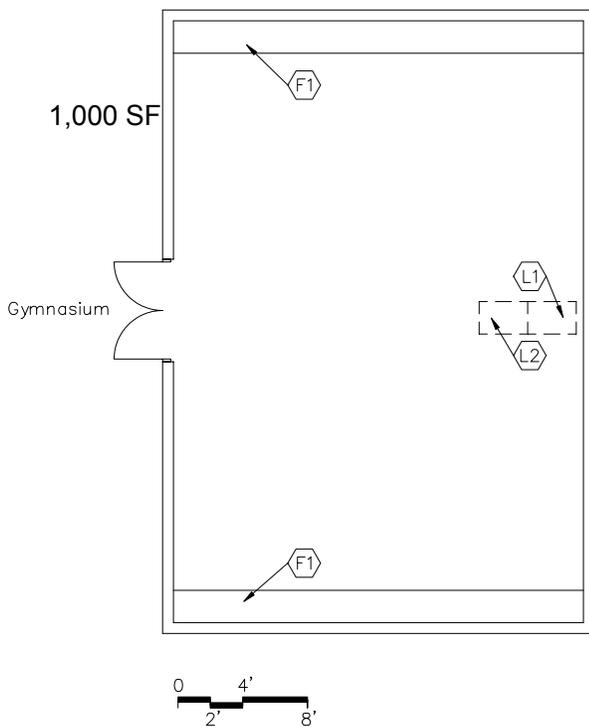
- Storage for physical education equipment

SPATIAL RELATIONSHIPS:

- Adjacent to gymnasium
- Near P.E./athletic office

ENVIRONMENTAL CONSIDERATIONS:

N/A



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

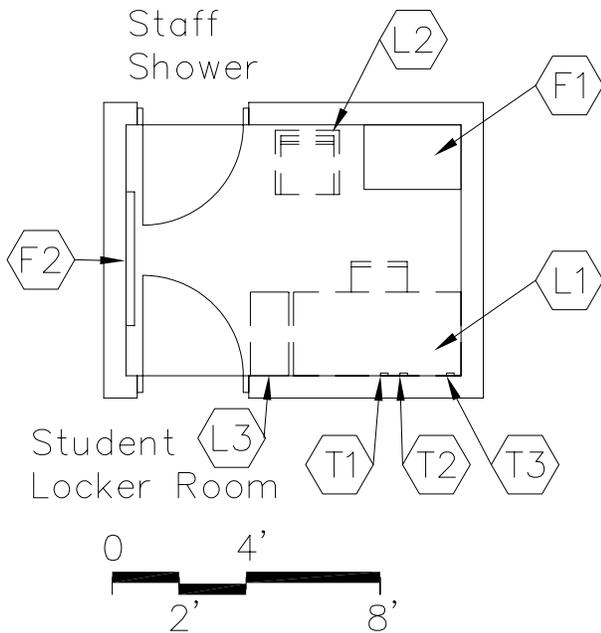
NOTES:

**PHYSICAL EDUCATION STORAGE
H-PE-5**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring: Sealed concrete	033000	<u>Fixed Items²:</u> F1 20' - 48' of open shelving, depths may vary (fixed or loose)	123550
Base: No base		<u>Fire Suppression:</u> Fire suppression system	211000
Ceiling: Exposed structure		<u>Plumbing:</u> N/A	
Option: Rated gypsum wallboard	092113	<u>HVAC:</u> Exhaust air system	Div. 23
Walls: Unpainted concrete masonry units	042000	Supplemental heat as required	Div. 23
<u>LOOSE FURNISHINGS:</u> L1 Tumbling mats on carts L2 Ball carts		<u>Electrical:</u> Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		1 duplex receptacle	262726
		<u>Communications:</u> N/A	
		<u>Electronic Safety and Security:</u> N/A	
		<u>Miscellaneous:</u> N/A	

NOTES:

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



PROGRAM ACTIVITIES:

- Teacher office for planning, grading, conferences, and scheduling

SPATIAL RELATIONSHIPS:

- Adjacent to student locker room
- Adjacent to staff shower

ENVIRONMENTAL CONSIDERATIONS:

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

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

NOTES:

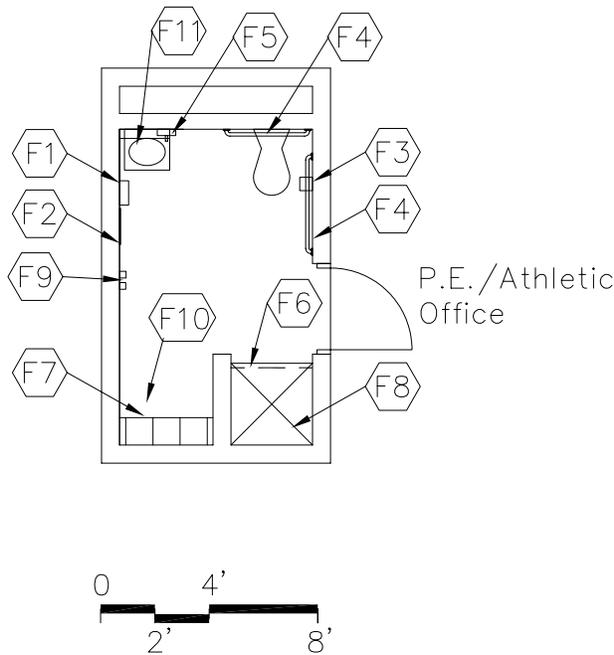
1. Loose furnishings shown represent one of many possible arrangements.

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

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Vinyl composition tile, linoleum, VET, sheet vinyl, or rubber	096500	F1 2' of tall wardrobe	123550
	096516	F2 4' of tack board	101100
<u>Base:</u>		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
<u>Ceiling:</u>		<u>Plumbing:</u>	
Suspended, acoustical	095113	N/A	
<u>Walls:</u>		<u>HVAC:</u>	
Painted concrete masonry units	042000/099100	Supply/return air system	Div. 23
		Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
L1 Teacher desk and chair		Single level switching	262726
L2 Visitor chair		Fluorescent lighting	265100
L3 File cabinet		Illumination level: See Table 8600-4	
Wastebasket		4 duplex receptacles	262726
		Double duplex receptacle adjacent to each data port	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/273113
		T2 1 data port near teacher workstation	271513
		T3 1 video port	271533/271543
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Interior windows (optional)	081113/088000

NOTES:

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



PROGRAM ACTIVITIES:

- Personal and health care needs for physical education teacher

SPATIAL RELATIONSHIPS:

- Adjacent to P.E./athletic office

ENVIRONMENTAL CONSIDERATIONS:

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

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

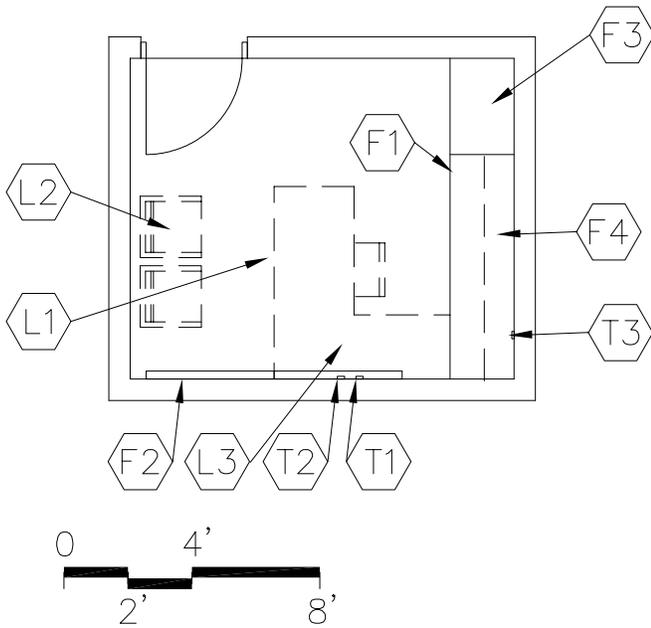
NOTES:

**STAFF SHOWER
H-PE-7**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Restroom: Vinyl composition tile,	096500	F1 Towel dispenser	102813
linoleum, VET, sheet vinyl,	096516	F2 24" x 60" mirror	102813
resinous flooring, or rubber	093000	F3 Toilet tissue holder	102813
Shower: Ceramic mosaic tile,	096723	F4 36" and 42" grab bar	102813
porcelain tile, or resinous flooring		F5 Soap dispenser	102813
		F6 Shower curtain and rod	102813
<u>Base:</u>		F7 3 athletic lockers	105113
Restroom: Resilient base,	096500	F8 ADA Shower accessories	102813
resinous flooring, or	093000	F9 Towel hooks	102813
integral vinyl cove base	096723	F10 Built-in bench (optional)	102813
Shower: Ceramic mosaic tile base,		F11 Mirror over sink with shelf (optional)	102813
porcelain tile base, resinous flooring,			
or integral vinyl cove base			
<u>Ceiling:</u>		<u>Fire Suppression:</u>	
Restroom: Suspended, acoustical	095113	Fire suppression system	211000
Shower: Painted portland cement plaster	092400/099100		
or interior finish system	092513	<u>Plumbing:</u>	
		Wall-mounted water closet	224000
<u>Walls:</u>		Wall-mounted lavatory	224000
Epoxy painted concrete masonry units	042000 /099100	ADA shower controls and head	224000
or ceramic wall tile in shower	093000	Plumbing connections	224000/221116/221119
and latex paint in restroom	099100	<u>HVAC:</u>	
		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
Wastebasket		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



PROGRAM ACTIVITIES:

- Space for planning and scheduling

SPATIAL RELATIONSHIPS:

- Near gymnasium

ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting
- 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**

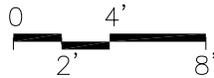
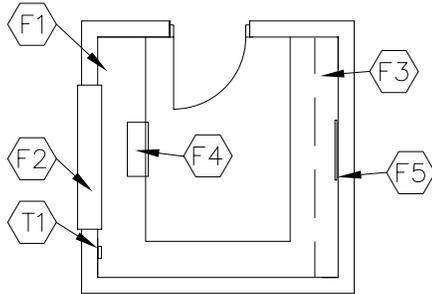
CHAPTER 6: HIGH SCHOOL

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<u>Fixed Items:</u>	
Carpet	096816	F1 Work surface with file drawers	123550
Base:		F2 4' of tack board or tackable wall surface	101100
Resilient base	096500	F3 2' of tall wardrobe	123550
Ceiling:		F4 Wall cabinets above work surface	123550
Suspended, acoustical	095113	<u>Fire Suppression:</u>	
Walls:		Fire suppression system	211000
Painted concrete masonry units	042000/099100	<u>Plumbing:</u>	
		N/A	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Desk and chair		Supply/return air system	Div. 23
L2 Visitor chairs		Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
L3 Computer desk return Wastebasket		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to data and video port	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/273113
		T2 1 data port near workstation	271513
		T3 1 video port	271533/271543
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

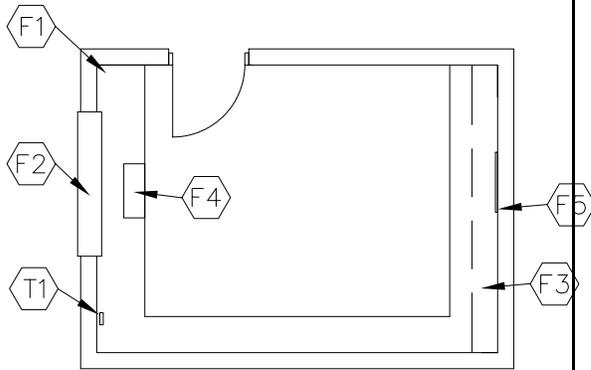
NOTES:

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

100 SF



200 SF



PROGRAM ACTIVITIES:

- Space for ticket sales
- Space for concession sales

SPATIAL RELATIONSHIPS:

- Near gymnasium

ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting
- Adequate ventilation

CAPACITY:
SIZE:

1 - 5 people
100 - 500 SF

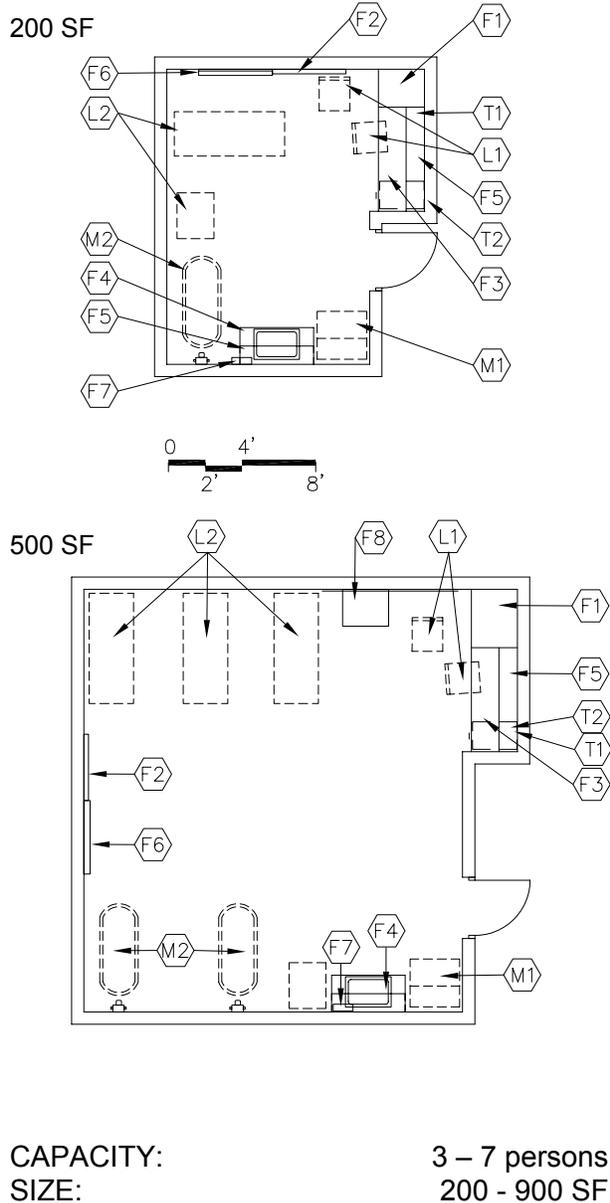
NOTES:

LOBBY SERVICES
H-PE-9

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Vinyl composition tile, linoleum, VET, sheet vinyl, or rubber	096516	F1 10' - 40' of base cabinets	123550
	096500	F2 Coiling door	083320
		F3 Wall cabinets	123550
<u>Base:</u>		F4 Money drawer	
Resilient base	096500	F5 4' of tack board	101100
<u>Ceiling:</u>		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
<u>Walls:</u>		<u>Plumbing:</u>	
Painted concrete masonry units		N/A	
	042000/099100	<u>HVAC:</u>	
<u>LOOSE FURNISHINGS:</u>		Supply/return air system	Div. 23
Stool		Independent temperature control	230923
		<u>Electrical:</u>	
		8 duplex receptacles	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		Single level switching	265100
		Receptacles for concession equipment	262726
		<u>Communications:</u>	
		T1 data port for cash register	271523
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



PROGRAM ACTIVITIES:

- 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:

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

NOTES:

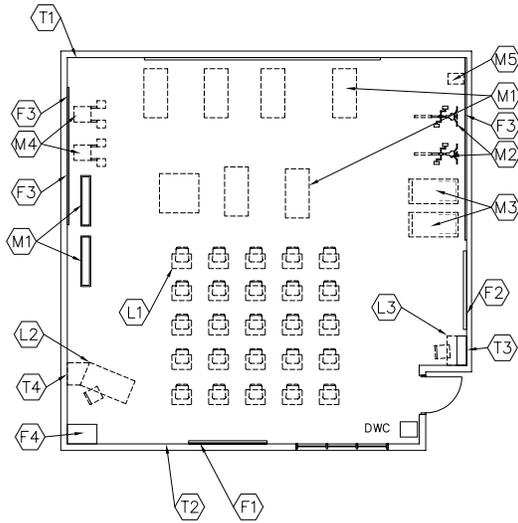
1. Loose furnishings shown represent one of many possible arrangements.

**TRAINING ROOM
H-PE-10**

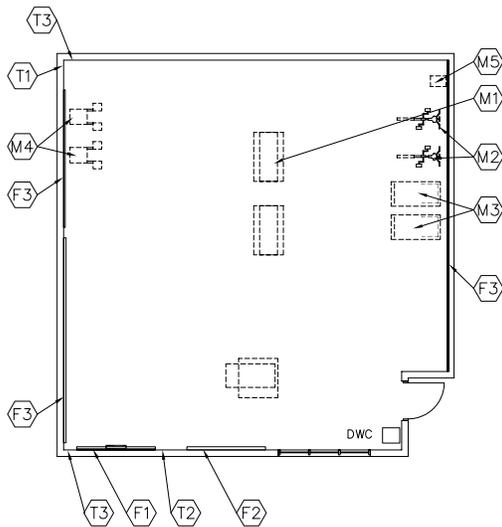
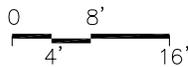
<u>FINISHES¹:</u>	Spec. <u>Ref.#</u>	<u>FEATURES¹:</u>	Spec. <u>Ref.#</u>
Flooring:		<u>Fixed Items:</u>	
Sheet vinyl, rubber, or rubber tile	096500	F1 2' of tall wardrobe with files	123550
Base:		F2 4' of tack board	101100
Resilient base	096500	F3 Work surface with file drawers	123550
Ceiling:		F4 3' sink base cabinet	123550
Suspended, acoustical	095113	F5 Wall cabinets	123550
Walls:		F6 4' of chalk/marker board (optional)	101100
Painted concrete masonry units	042000/099100	F7 Towel dispenser	102813
		F8 About 3' tall storage cabinet	123550
<u>LOOSE FURNISHINGS:</u>		<u>Fire Suppression:</u>	
L1 Chairs		Fire suppression system	211000
L2 Taping tables		<u>Plumbing:</u>	
Wastebasket		Plumbing connections	224000/221116/221119
		Whirlpool, sink, and washer/dryer	Div. 23
		<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Independent temperature control	230923
		<u>Electrical:</u>	
		Fluorescent lighting:	265100
		Illumination level: See Table 8600-4	
		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
		<u>Communications:</u>	
		T1 1 data port near trainer workstation	271513
		T2 1 voice port and phone	271513/273113
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		The following items are to be funded by the school district:	
		M1 Ice Machine	
		M2 Whirlpool	

NOTES:

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



2,000 SF



CAPACITY:
SIZE:

15 - 25 students
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:

- Uniform lighting
- Environmental sound control -
wall minimum STC 50
ceiling minimum CAC 35, NRC **0.70**

NOTES:

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

**PHYSICAL HEALTH CLASSROOM
H-PE-11**

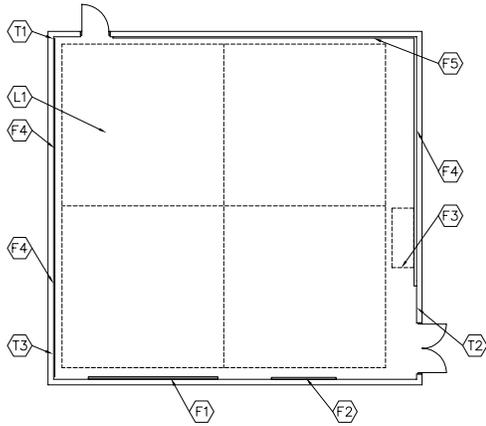
CHAPTER 6: HIGH SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Sheet vinyl, rubber, or rubber tile	096500	F1 4'-8' of chalk/marker board	101100
		F2 4'-8' of tack board	101100
<u>Base:</u>		F3 5' high mirror mounted 12" above floor	088300
Resilient base	096500	F4 3' tall wardrobe (optional)	123550
<u>Ceiling:</u>		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
<u>Walls:</u>		<u>Plumbing:</u>	
Painted concrete masonry units	042000/099100	Plumbing connections	224000/221116/221119
		Drinking water cooler	224000
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Student desks and chairs(if applicable)		Supply/return air system	Div. 23
L2 Teacher workstation and chair		Independent temperature control	230923
L3 Computer workstation		<u>Electrical:</u>	
File drawer		Fluorescent lighting:	265100
Wastebasket		Illumination level: See Table 8600-4	
		Multilevel switching	262726
		8 – 10 duplex receptacles	262726
		Double duplex receptacle adjacent to each data port	262726
		<u>Communications:</u>	
		T1 1 video port and video display device	271533/271543/274119
		T2 1 voice port and phone	271513/273113
		T3 1 data port	271513
		T4 1 data port near teacher workstation	271513
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		The following items are to be funded by the school district:	
		M1 Weight lifting equipment	
		M2 Stationary bikes	
		M3 Treadmills	
		M4 Stairclimbers	
		M5 Digital weight scale	

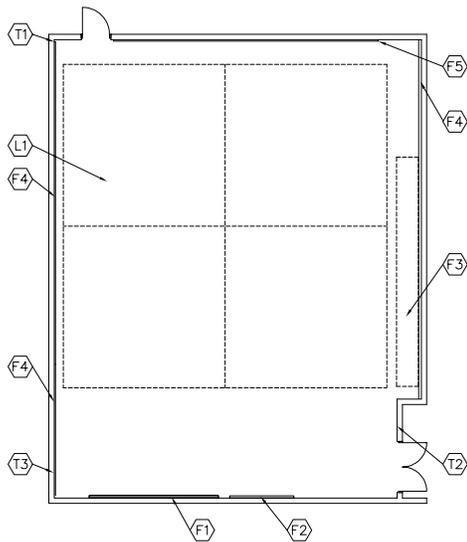
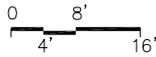
NOTES:

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:

- Uniform lighting
- Environmental sound control -
wall minimum STC **50**
ceiling minimum CAC 35, NRC **0.70**
- Flexibility of space

NOTES:

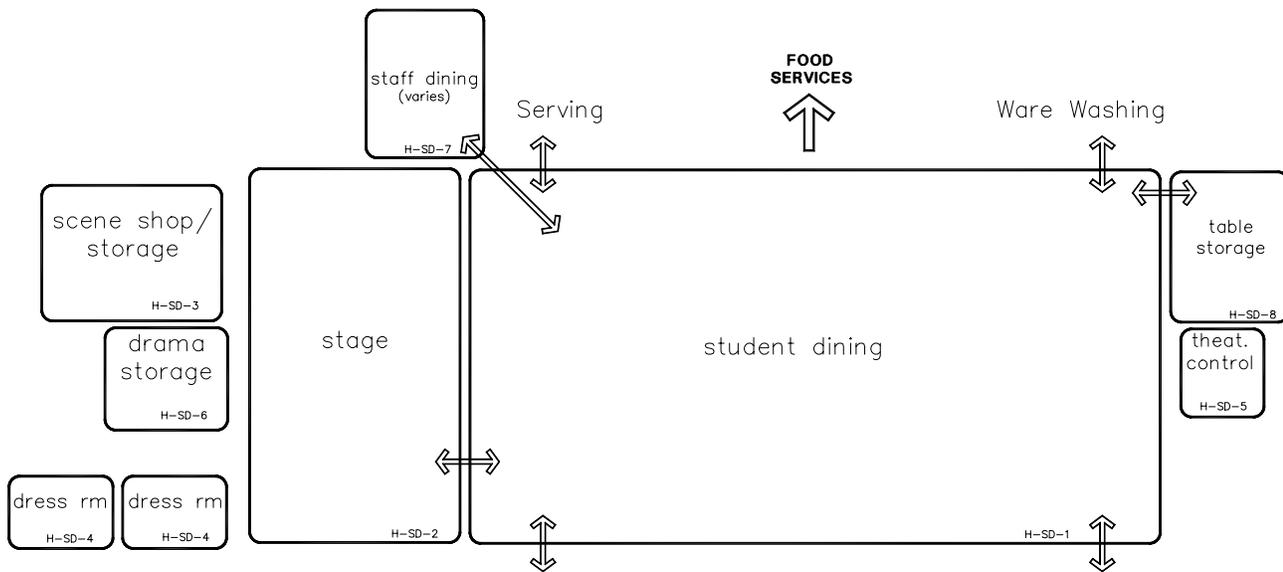
1. Loose furnishings shown represent one of many possible arrangements.

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

<u>FINISHES¹:</u>	<u>Spec. Ref.#</u>	<u>FEATURES:</u>	<u>Spec. Ref.#</u>
Flooring:		<u>Fixed Items:</u>	
Vinyl composition tile, linoleum,	096516	F1 4'-16' of chalk/marker board	101100
VET, sheet vinyl, rubber, or	096500	F2 4'-8' of tack board	101100
fluid-applied athletic flooring	096766	F3 Mat hoist (optional)	116623
Base:		F4 Safety wall wainscot	116623
Resilient base	096500	<u>Fire Suppression:</u>	
Ceiling:		Fire suppression system	211000
Painted exposed structure	099100	<u>Plumbing:</u>	
Walls:		N/A	
Painted concrete masonry units	042000 /099100	<u>HVAC:</u>	
<u>LOOSE FURNISHINGS:</u>		Supply/return air system	Div. 23
L1 Wrestling mat		Independent temperature control	230923
		<u>Electrical:</u>	
		High intensity discharge lighting:	265100
		or fluorescent lighting	
		Illumination level: See Table 8600-4	
		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
		<u>Communications:</u>	
		T1 1 video port	271533/271543
		T2 1 voice port	271513/273113
		T3 1 data port	271513
		Clock with wire guards	275313
		Central sound system horns	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



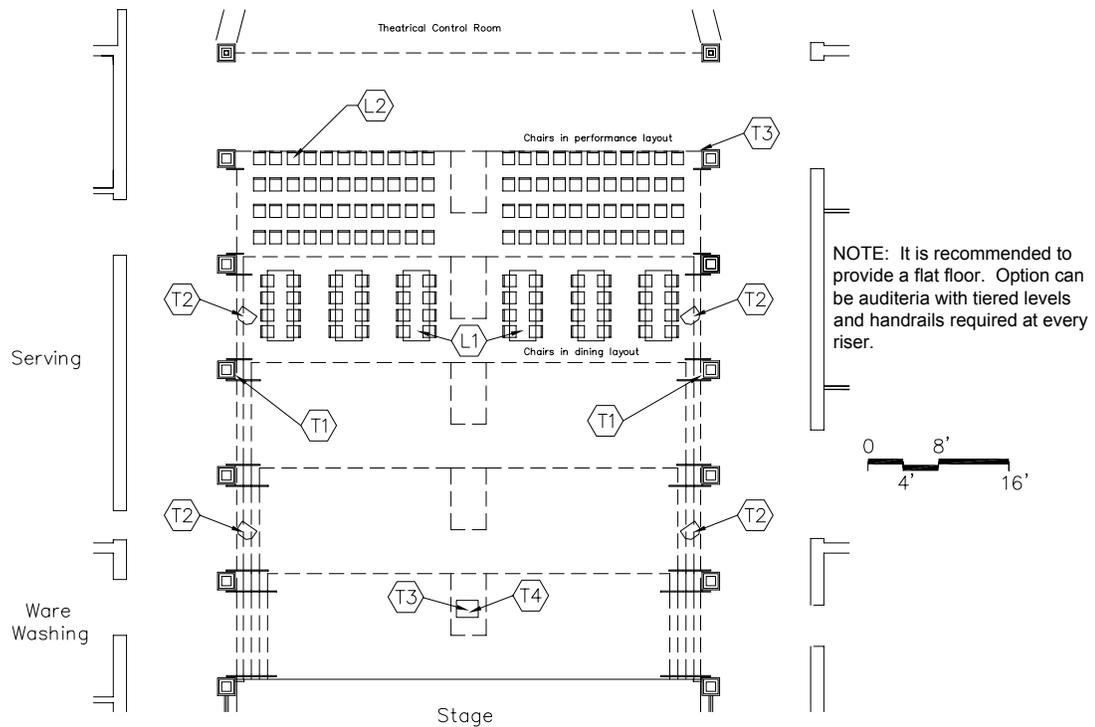
NOTES:

This is an example of how the 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

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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:

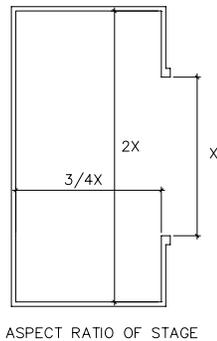
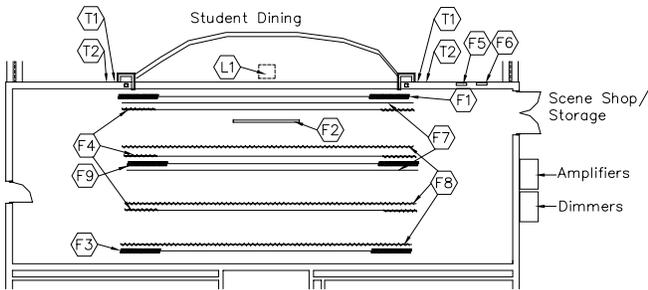
- Adjacent to stage
- Adjacent to kitchen
- Adjacent to theatrical control room

ENVIRONMENTAL CONSIDERATIONS:

- Uniform non-glare lighting
- 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.



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

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

NOTES:

**STAGE
H-SD-2**

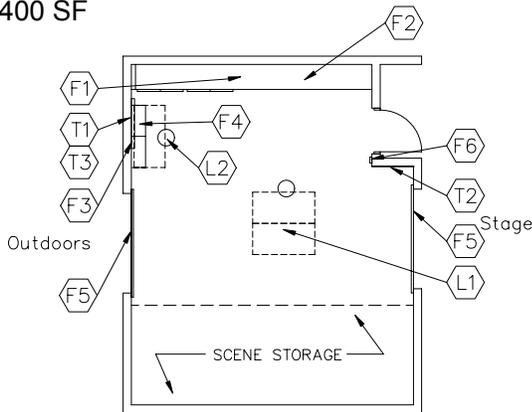
CHAPTER 6: HIGH SCHOOL

<u>FINISHES</u> ¹ :	Spec. Ref.#	<u>FEATURES</u> ¹ :	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Stage: Softwood or combination hardwood and softwood	096400	F1 Front curtain, track, and valance or grand border	116143
Stairs: Carpet, rubber, or wood		F2 Projection screen	116143
<u>Base:</u>		F3 Rear curtain with track	116143
Ventilated resilient base	096400	F4 Leg curtains, tracks, and/or pivots	116143
<u>Ceiling:</u>		F5 Sound control console receptacle	275121
Painted exposed structure	099100	F6 Lighting control console receptacle	265100
<u>Walls:</u>		F7 Light pipe	116143
Painted concrete masonry units	042000 /099100	F8 Border curtains	116143
		F9 Mid-stage traveler	116143
<u>LOOSE FURNISHINGS:</u>		<u>Fire Suppression:</u>	
L1 Podium		Fire suppression system	211000
		<u>Plumbing:</u>	
		N/A	
		<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Independent temperature control	230923
		<u>Electrical:</u>	
		Fluorescent lighting:	265100
		Illumination level: See Table 8600-10	
		Single level switching	262726
		Stage dimming system	265561
		Theatrical lighting	265561
		Illumination level:	
		see table 8600-10	
		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
		<u>Communications:</u>	
		T1 2 video ports (1 on each side of proscenium opening)	271533/271543
		T2 2 data ports (1 on each side of proscenium opening)	271523
		Student dining/auditeria sound system ²	275121
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

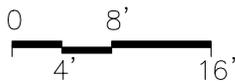
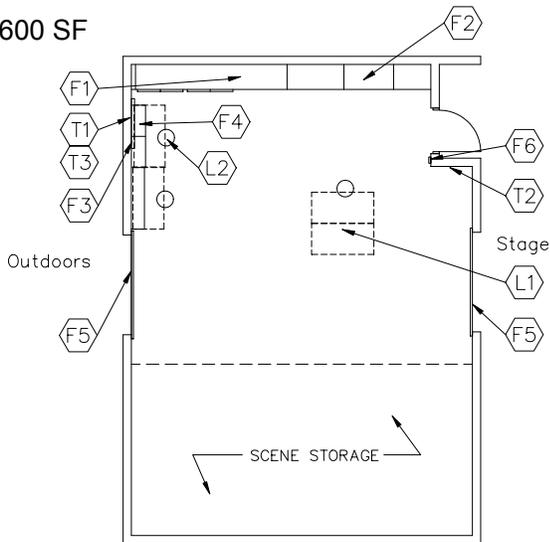
NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. 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
 Auditoria/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 auditoria/student dining
- Convenient to outside and materials delivery

ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting
- 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.

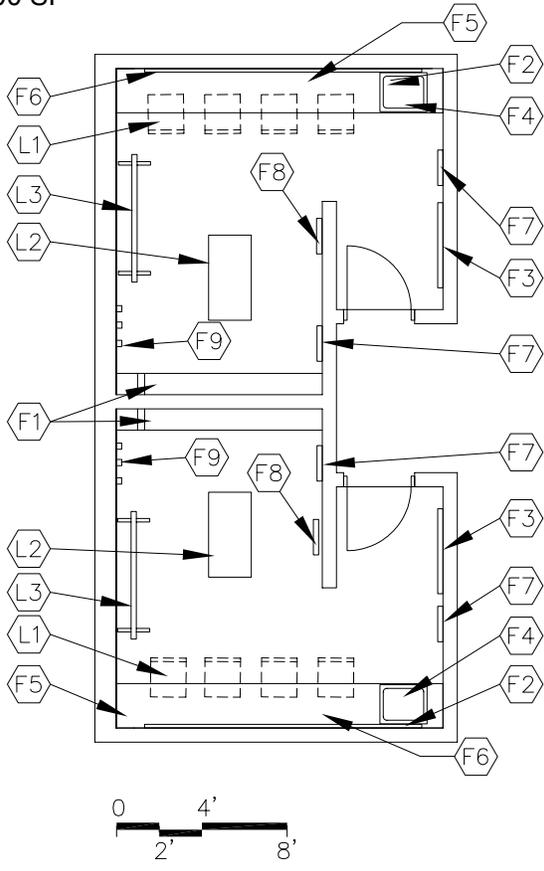
**SCENE SHOP AND STORAGE
H-SD-3**

<u>FINISHES</u> ¹ :	Spec. Ref.#	<u>FEATURES</u> ² :	Spec. Ref.#
Flooring:		<u>Fixed Items</u> ² :	
Sealed concrete	033000	F1 9'-22' of tall storage cabinets	123550
Base:		F2 5'-10' of wall cabinets (optional)	123550
Resilient base	096500	F3 4' of tack board	101100
Ceiling:		F4 5'-10' base cabinet with work counter	123550
Painted exposed structure	099100	F5 (2) 8' wide x 10' high overhead door	083613
Walls:		F6 Pencil sharpener support	062000
Painted concrete masonry units	042000/099100	<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Work tables		N/A	
L2 Work bench stools		<u>HVAC:</u>	
Waste receptacle		Supply/return air system	Div. 23
Pencil sharpener		Independent temperature control	230923
		Manual exhaust	Div. 23
		<u>Electrical:</u>	
		Fluorescent lighting:	265100
		Illumination level: see table 8600-4	
		Single level switching	262726
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u>	
		T1 1 video port	271533/271543
		T2 1 voice port	271513/273113
		T3 1 data port	271513
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Shop equipment by school district	

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:

- Uniform lighting
- Environmental sound control -
 wall minimum **STC 50**
 ceiling minimum **CAC 35, NRC 0.70**

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

NOTES:

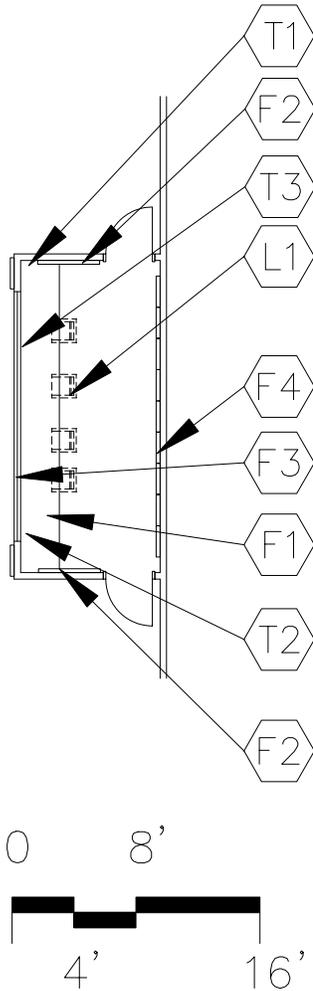
1. Loose furnishings shown represent one of many possible arrangements.

MAKEUP/DRESSING ROOMS
H-SD-4

	Spec. Ref.#		Spec. Ref.#
FINISHES¹:		FEATURES:	
Flooring:		Fixed Items:	
Vinyl composition tile, linoleum, VET, sheet vinyl, or rubber	096516 096500	F1 6'-16' of costume storage cabinets	123550
Base:		F2 Towel dispenser (optional)	102813
Resilient base, or integral vinyl cove base	096500	F3 4'-8' of tack board	101100
Ceiling:		F4 3' sink base cabinet	123550
Suspended, acoustical	095113	F5 8'-13' of work surface	123550
Walls:		F6 48" high makeup mirrors - full length of work surface	088300
Painted concrete masonry units	042000/099100	F7 2 minimum 20" wide x 60" high dressing mirrors	088300
		F8 Shallow wall cabinet for makeup (optional)	123550
		F9 Coat hooks	102813
LOOSE FURNISHINGS:		Fire Suppression:	
L1 Chairs		Fire suppression system	211000
L2 Bench		Plumbing:	
L3 Mobile costume rack		Sink	224000
Wastebasket		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 8600-4	
		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.



PROGRAM ACTIVITIES:

- Lighting and sound control for auditoria/student dining
- Slide, movie, and video projection
- Communications with stage

SPATIAL RELATIONSHIPS:

- Adjacent to auditoria/student dining
- Close proximity to stage

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY: 5 persons
 SIZE: 200 SF
 ANCILLARY SPACES: Auditoria/Student Dining
 H-SD-1

NOTES:

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

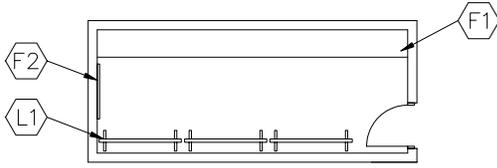
**THEATRICAL CONTROL ROOM
H-SD-5**

	Spec. Ref.#	FEATURES: <u>Fixed Items:</u>	Spec. Ref.#
<u>FINISHES¹:</u>			
Flooring:		F1 10'-20' of equipment/work surface	123550
Vinyl composition tile, linoleum,	096516	F2 4'-8' of tack board	101100
VET, sheet vinyl, or rubber	096500	F3 Operable window (optional)	085113
		F4 Acoustic wall treatment (optional)	098000
Base:		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Suspended, acoustical	095113	N/A	
Walls:		<u>HVAC:</u>	
Painted gypsum wallboard	042000 /099100	Supply/return air system	Div. 23
Acoustical wall treatment	098000	Independent temperature control	230923
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
L1 Chairs		Fluorescent lighting: overhead	265100
Wastebasket		Illumination level: See Table 8600-4	
		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
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/273113
		T2 1 video port	271533/271543
		T3 2 data ports	271513
		Student Dining/Auditeria sound system	
		control panel	275121
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

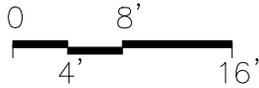
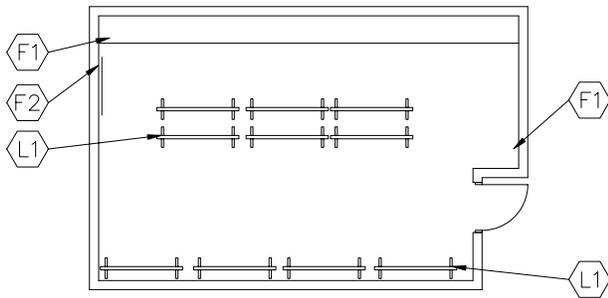
NOTES:

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

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 auditoria/student dining

ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting

NOTES:

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

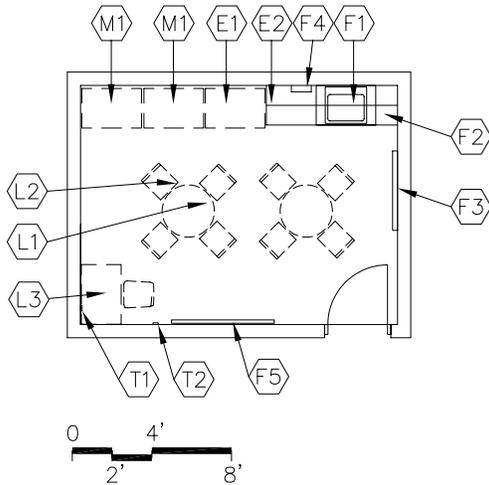
**DRAMA STORAGE
H-SD-6**

<u>FINISHES</u> ¹ :	Spec. Ref.#	<u>FEATURES</u> :	Spec. Ref.#
Flooring:		<u>Fixed Items</u> :	
Vinyl composition tile	096500	F1 10'-22' of costume storage cabinets	123550
		F2 4' of tack board (optional)	101100
Base:		<u>Fire Suppression</u> :	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<u>Plumbing</u> :	
Suspended, acoustical	095113	N/A	
Walls:		<u>HVAC</u> :	
Painted concrete masonry units	042000/099100	To be determined by Design Professional	
		Supplementary heat as required	Div. 23
<u>LOOSE FURNISHINGS</u> :		<u>Electrical</u> :	
L1 Mobile clothes racks		Fluorescent lighting:	265100
		Illumination level: See Table 8600-4	
		1 duplex receptacle	262726
		<u>Communications</u> :	
		Central sound system	275123
		<u>Electronic Safety and Security</u> :	
		Life safety devices per code	283111
		<u>Miscellaneous</u> :	
		N/A	

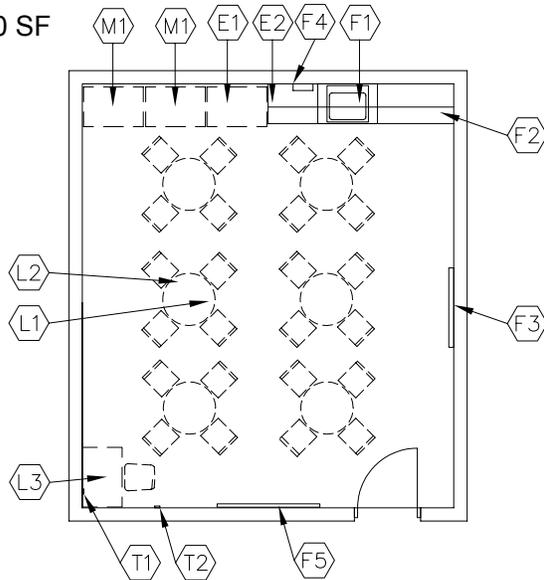
NOTES:

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

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:

- Uniform lighting
- Environmental sound control -
 walls minimum STC 50
 ceiling minimum CAC 35, NRC **0.70**

NOTES:

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

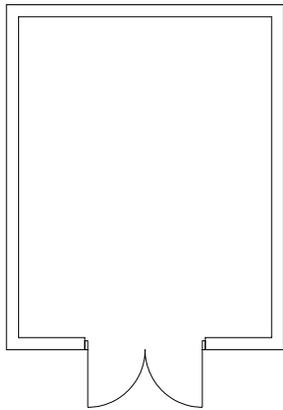
STAFF DINING
H-SD-7

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Linoleum, VCTT, rubber, VET,	096500	F1 3' sink base cabinet with wall cabinet	123550
sheet vinyl, porcelain tile,	096516	F2 About 8' of base and wall cabinets	123550
or terrazzo tile	093000	F3 4' of tack board	101100
	096616	F4 Towel dispenser	102813
<u>Base:</u>		F5 4'-6' of marker board (optional)	101100
Resilient base	096500	<u>Fire Suppression:</u>	
Optional: porcelain tile base	093000	Fire suppression system	211000
<u>Ceiling:</u>		<u>Plumbing:</u>	
Suspended, acoustical	095113	Sink	224000
<u>Walls:</u>		Plumbing connections	224000/221116/221119
Painted, concrete masonry units	042000/099100	<u>HVAC:</u>	
<u>LOOSE FURNISHINGS:</u>		Supply/return air system	Div. 23
L1 Tables		Independent temperature control	230923
L2 Chairs		<u>Electrical:</u>	
L3 Computer workstation		Single level switching	262726
Waste receptacle		Fluorescent lighting	265100
<u>EQUIPMENT:</u>		Illumination level: See Table 8600-4	
E1 Refrigerator		4 duplex receptacles	262726
E2 Microwave		Double duplex receptacle adjacent to	
		each video port	262726
		Receptacles for vending machines,	
		refrigerator, and microwave	262726
		<u>Communications:</u>	
		T1 1 video port	271533/271543
		T2 1 voice port and phone	271513/273113
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		The following items are to be funded by the school district:	
		M1 Vending machines	

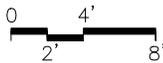
NOTES:

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

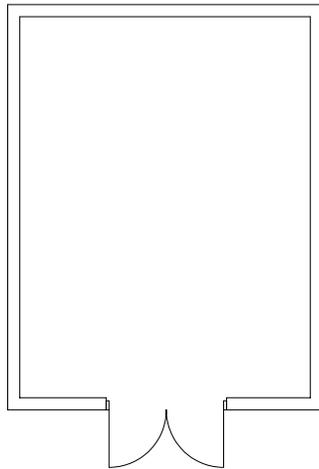
400 SF



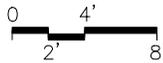
Student Dining



700 SF



Student Dining



CAPACITY:

SIZE:

ANCILLARY SPACES:

N/A

400 - 700 SF

Student Dining

H-SD-1

PROGRAM ACTIVITIES:

- Storage for tables and chairs

SPATIAL RELATIONSHIPS:

- Adjacent to student dining
- Near food services

ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting

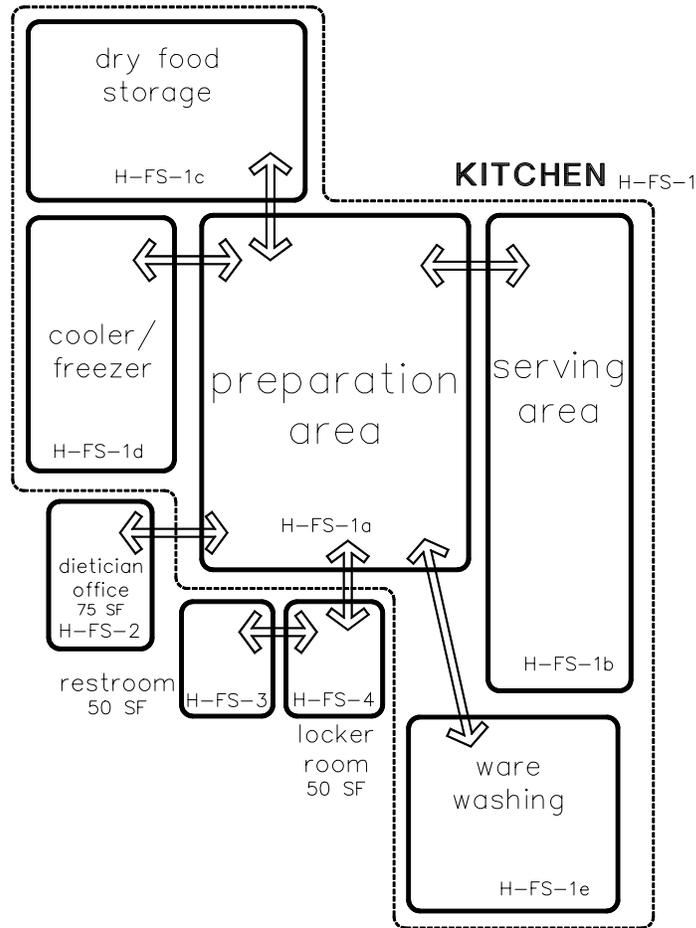
NOTES:

**TABLE STORAGE
H-SD-8**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Sealed concrete	093000	N/A	
Base:		<u>Fire Suppression:</u>	
No base		Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Exposed structure		N/A	
Option: Rated gypsum wallboard	092116	<u>HVAC:</u>	
Walls:		Exhaust air system	Div. 23
Unpainted concrete masonry units	042000	Supplemental heat as required	Div. 23
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
N/A		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



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:

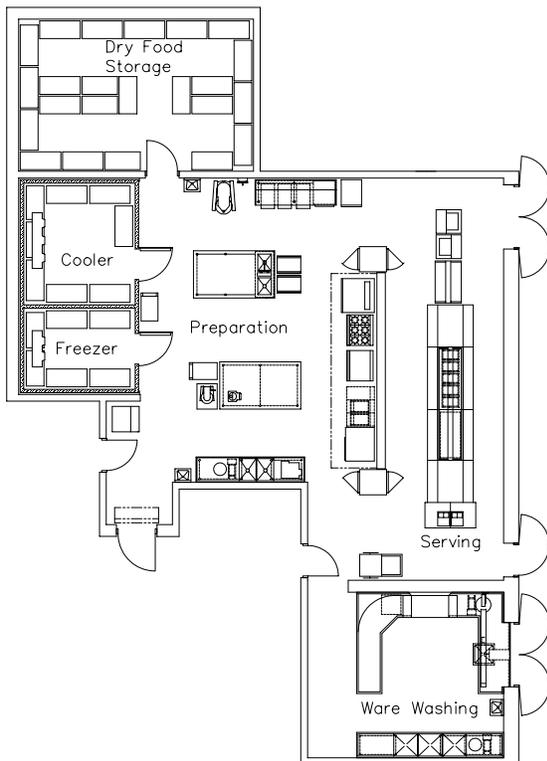
- H-FS-0 Warming Kitchen
- H-FS-1 Kitchen
- H-FS-1a Preparation Area
- H-FS-1b Serving Area
- H-FS-1c Dry Food Storage
- H-FS-1d Cooler/Freezer
- H-FS-1e Ware Washing
- H-FS-2 Custodial Closet
- H-FS-3 Dietician Office
- H-FS-4 Restroom
- H-FS-5 Locker Room

**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

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

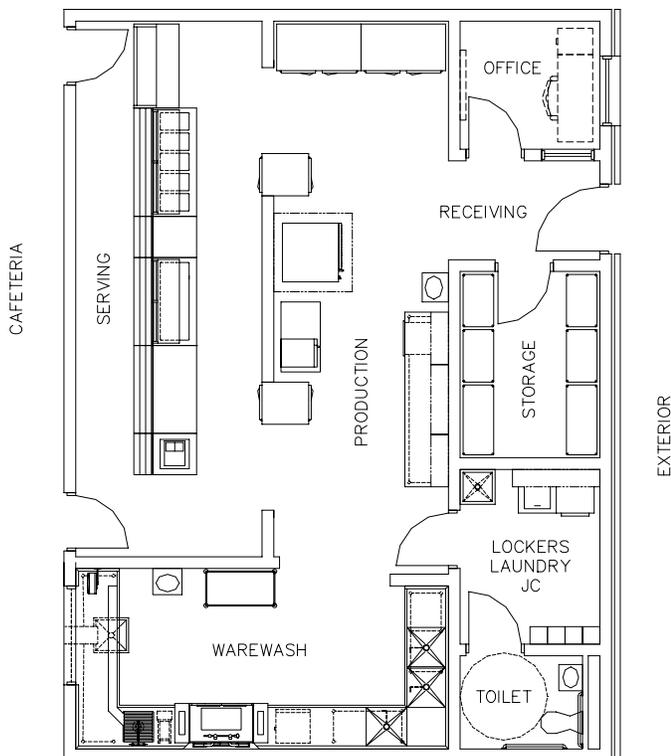
- Adjacent to student dining
- Near staff dining
- Near table storage
- Adjacent to loading/receiving area

ENVIRONMENTAL CONSIDERATIONS:

- Compliance with State Board of Health requirements

MISCELLANEOUS:

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



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

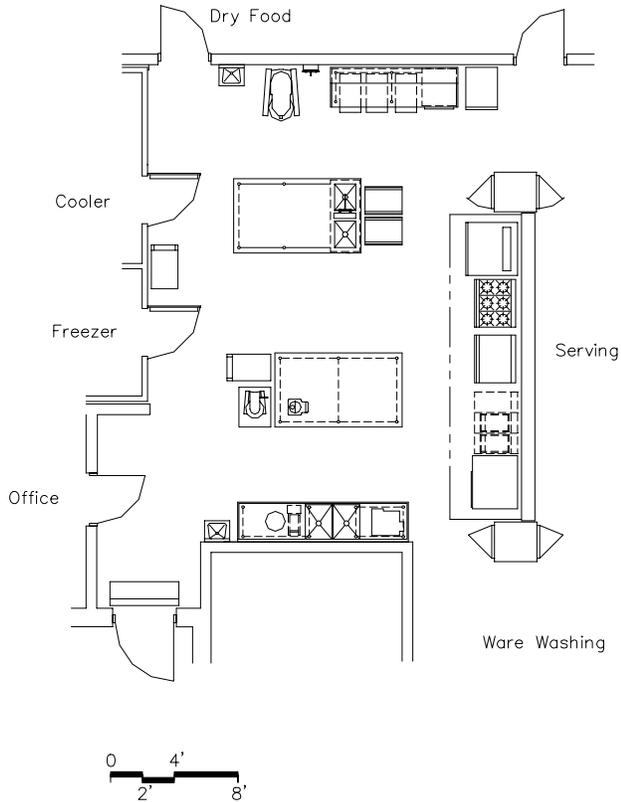
NOTES:

**WARMING KITCHEN
H-FS-0**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Quarry tile	093000	Food service equipment	114000
Base:		<u>Fire Suppression:</u>	
Quarry tile base	093000	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Cleanable, suspended, acoustical	095113	Connections to food service eqpt.	224000
Walls:		Plumbing connections	224000/221116/221119
Epoxy-painted concrete masonry units	042000 /099100	Hand washing lavatory	224000
Option: Ceramic wall tile or latex paint	093000 099100	Gas connections	226313
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
N/A		Supply/return air system	Div. 23
		Independent temperature control	230923
		Kitchen canopy exhaust system	233800
		<u>Electrical:</u>	
		Dual level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		10 duplex receptacles	262726
		Emergency lighting	265100
		Connections to food service eqpt.	262726
		Means of egress lighting per code	265100
		<u>Communications:</u>	
		1 voice port and phone	271513/273113
		1 data port at cash register(s)	271513
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



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:

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

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

NOTES:

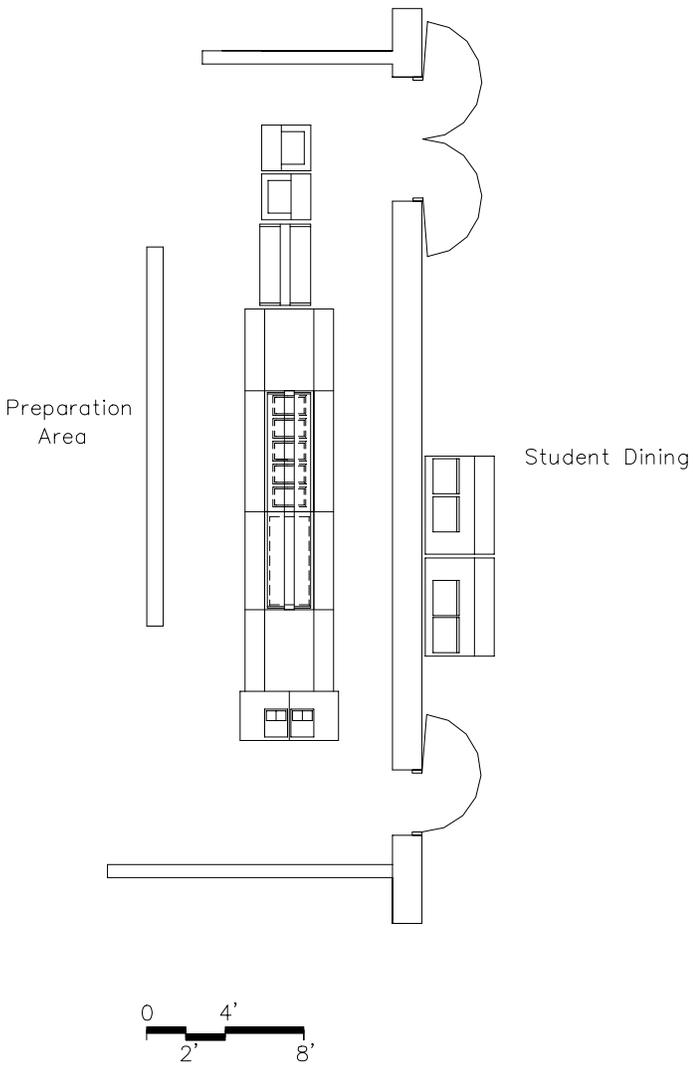
1. This is an example of a preparation area. Food service equipment will vary from school district to school district.

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

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Quarry tile	093000	Food service equipment	114000
Base:		<u>Fire Suppression:</u>	
Quarry tile base	093000	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Cleanable, suspended, acoustical	095113	Connections to food service equipment	224000
Walls:		Plumbing connections	224000/221116/221119
Epoxy-painted concrete masonry units	042000 /099100	Hand washing lavatory	224000
Option: ceramic wall tile	093000	Gas connections	226313
or latex paint	099100	<u>HVAC:</u>	
<u>LOOSE FURNISHINGS:</u>		Supply/return air system	Div. 23
N/A		Independent temperature control	230923
		Kitchen canopy exhaust system	233800
		<u>Electrical:</u>	
		Dual level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		4 duplex receptacles	262726
		Emergency lighting	265100
		Connections to food service equipment	262726
		Means of egress lighting per code	265100
		<u>Communications:</u>	
		1 voice port and phone	271513/273113
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



PROGRAM ACTIVITIES:

- Space for serving of food

SPATIAL RELATIONSHIPS:

- Adjacent to student dining
- Adjacent to preparation area

ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting
- Cleanable building services

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

NOTES:

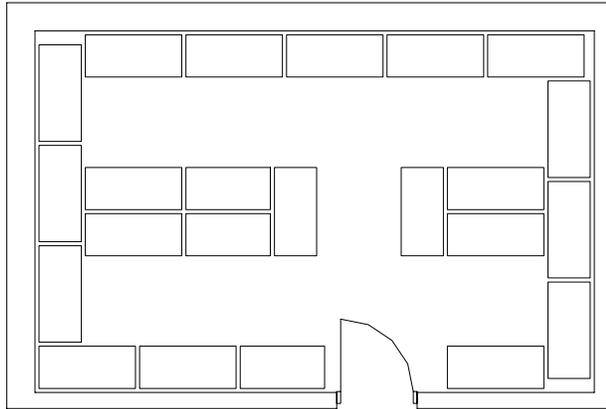
1. This is an example of a serving area. Food service equipment will vary from school district to school district.

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

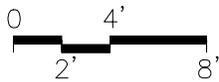
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		Fixed Equipment:	
Quarry tile	093000	Food service equipment	114000
Optional: porcelain tile			
Base:		<u>Fire Suppression:</u>	
Quarry tile base	093000	Fire suppression system	211000
Optional: porcelain tile base			
Ceiling:		<u>Plumbing:</u>	
Cleanable, suspended, acoustical	095113	Connections to food service equipment	224000
Walls:		<u>HVAC:</u>	
Epoxy-painted concrete masonry units	042000 /099100	Supply/return air system	Div. 23
Ceramic wall tile	093000	<u>Electrical:</u>	
or latex paint	099100	Dual level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
<u>LOOSE FURNISHINGS:</u>		4 duplex receptacles	262726
N/A		Connections to food service equipment	262726
		Emergency lighting	265100
		Means of egress lighting per code	265100
		Duplex receptacle at each cash register	262726
		<u>Communications:</u>	
		Data port(s) at cash register(s)	271513
		Clock	275313
		Central sound system	275123
		1 voice port and phone	271513/273113
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



Preparation Area



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:

- Uniform lighting
- Continuous conditioning of air
- Cleanable building surfaces

NOTES:

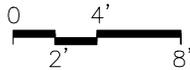
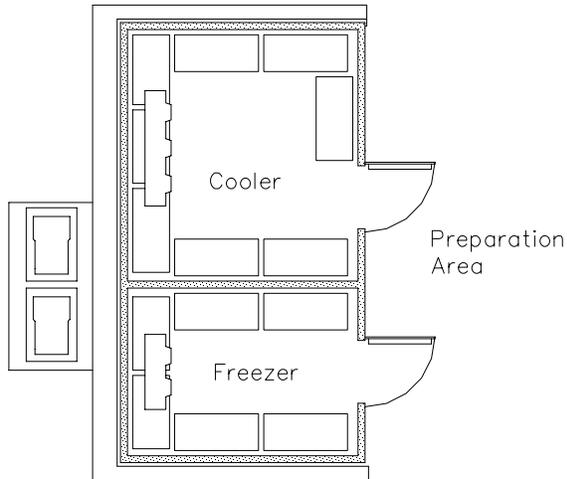
1. This is an example of a dry food storage area. Food service equipment will vary from school district to school district.

KITCHEN - Dry Food Storage
H-FS-1c

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Linoleum, VET, or sheet vinyl	096500	Food service equipment	114000
Option: Quarry tile	093000		
	096516	<u>Fire Suppression:</u>	
<u>Base:</u>		Fire suppression system	211000
Resilient base	096500		
Option: Quarry tile	093000	<u>Plumbing:</u>	
		N/A	
<u>Ceiling:</u>		<u>HVAC:</u>	
Cleanable, suspended, acoustical	095113	Exhaust air system	Div. 23
		Supply/return air system	Div. 23
<u>Walls:</u>		<u>Electrical:</u>	
Epoxy-painted concrete masonry units	042000 /099100	Single level switching	262726
Option: Ceramic wall tile	093000	Fluorescent lighting	265100
or latex paint	099100	Illumination level: See Table 8600-4	
		1 duplex receptacle	262726
<u>LOOSE FURNISHINGS:</u>		<u>Communications:</u>	
N/A		N/A	
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



PROGRAM ACTIVITIES:

- Space for refrigerated storage of perishable products

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

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

NOTES:

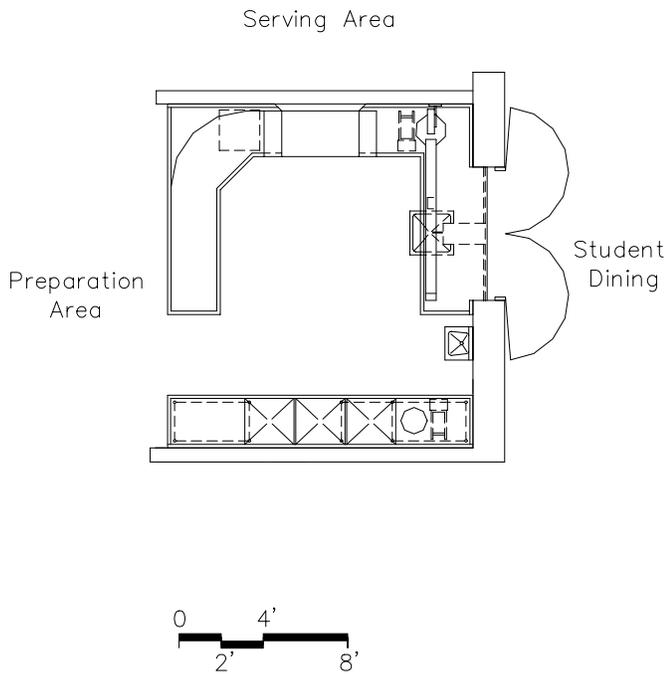
1. This is an example of a cooler/freezer. Food service equipment will vary from school district to school district.

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

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Quarry tile	093000	Food service equipment	114000
Base:		<u>Fire Suppression:</u>	
Quarry tile base	093000	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Manufactured insulated panel	114000	N/A	
Walls:		<u>HVAC:</u>	
Manufactured insulated panel	114000	Exhaust air system for compressors Div. 23	
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
N/A		Single level switching	262726
		Incandescent lighting	265100
		Illumination level: See Table 8600-4	
		Electrical connections to freezer/cooler refrigeration equipment	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Adjacent to student dining

ENVIRONMENTAL CONSIDERATIONS:

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

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

NOTES:

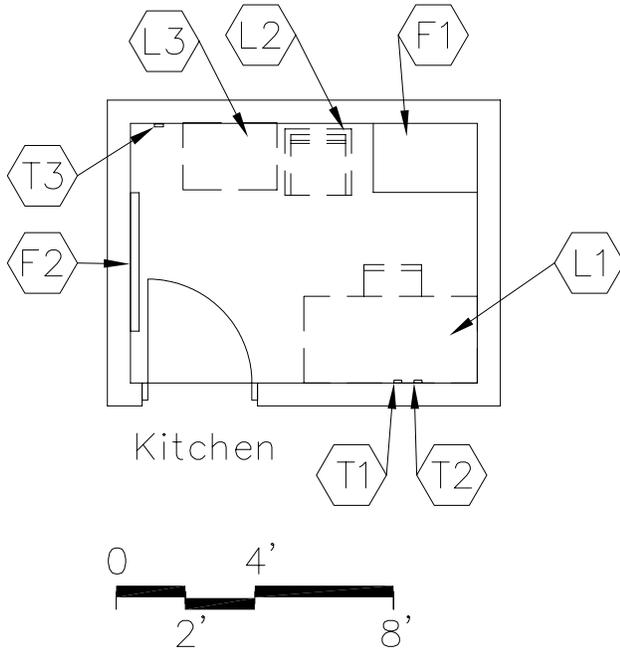
1. This is an example of a ware washing area. Food service equipment will vary from school district to school district.

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

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Quarry tile	093000	Food service equipment	114000
Base:		<u>Fire Suppression:</u>	
Quarry tile base	093000	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Cleanable, suspended, acoustical	095113	Lavatory	224000
Walls:		Connections to food service equipment	224000
Epoxy-painted concrete masonry units	042000/099100	<u>HVAC:</u>	
Option: Ceramic wall tile	093000	Supply/return air system	Div. 23
or latex paint	099100	Independent temperature control	230923
		Exhaust hood system	Div. 23
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
N/A		Dual level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		1 duplex receptacle	262726
		Connections to food service equipment	262726
		<u>Communications:</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Adjacent to kitchen

ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting
- 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.

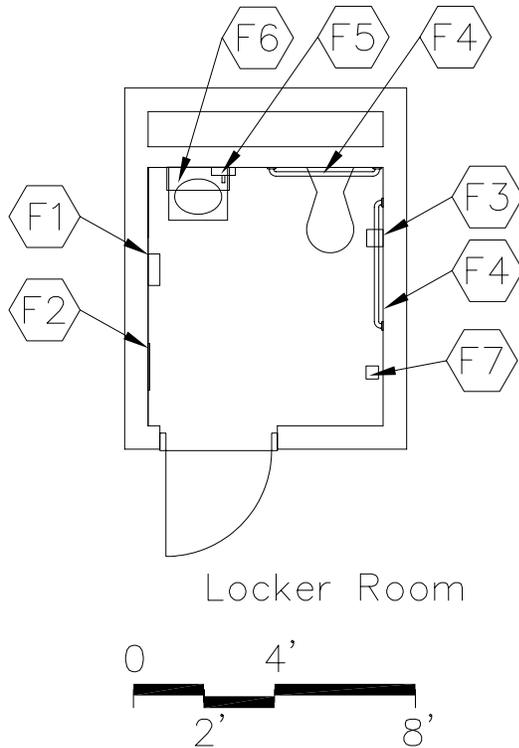
**DIETICIAN'S OFFICE
H-FS-2**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>			
Linoleum, VET, or sheet vinyl	096500	<u>Fixed Items:</u>	
	096516	F1 2' of tall wardrobe (optional)	123550
Option: Quarry tile	093000	F2 4' of tack board	101100
<u>Base:</u>			
Resilient base	096500	<u>Fire Suppression:</u>	
Option: Quarry tile	093000	Fire suppression system	211000
<u>Ceiling:</u>			
Suspended, acoustical	095113	<u>Plumbing:</u>	
N/A			
<u>Walls:</u>			
Painted concrete masonry units	042000/099100	<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Independent temperature control	230923
		(coupled with similarly loaded adjacent spaces)	
<u>LOOSE FURNISHINGS:</u>			
L1 Desk and chair		<u>Electrical:</u>	
L2 Visitor chair		Single level switching	262726
L3 File cabinet		Fluorescent lighting	265100
Wastebasket		Illumination level: See Table 8600-4	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to data and video port	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/273113
		T2 1 data port near workstation	271513
		T3 1 video port	271533/271543
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Interior window (optional)	081113/088000

NOTES:

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



Locker Room

PROGRAM ACTIVITIES:

- Personal and health needs for food service staff

SPATIAL RELATIONSHIPS:

- Adjacent to locker room

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY: 1 person
 SIZE: 50 SF
 ANCILLARY SPACES: Locker Room
 H-FS-4

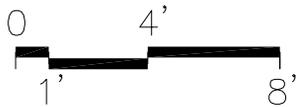
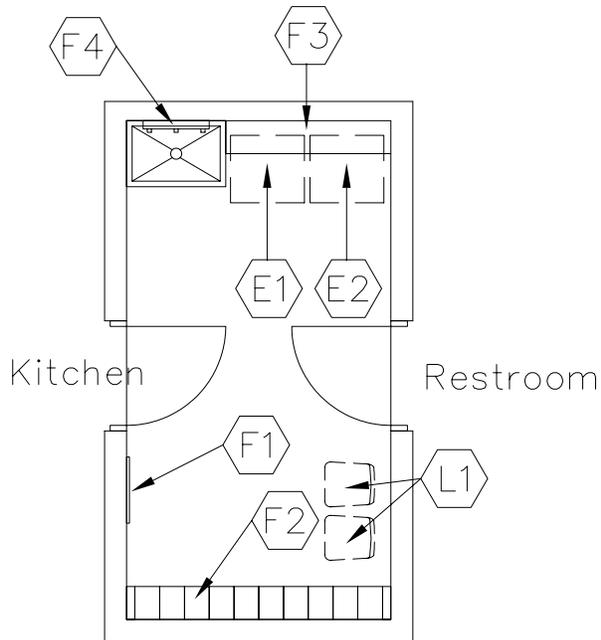
NOTES:

**RESTROOM
H-FS-3**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Linoleum, VET, sheet vinyl, or rubber	096516 096500	F1 Towel dispenser	102813 102813
Optional: quarry tile or resinous flooring	093000 096723	F2 24" x 60" mirror	102813
		F3 Toilet tissue holder	102813
		F4 36" and 42" grab bar	102813
		F5 Soap dispenser	102813
<u>Base:</u>		F6 Mirror with shelf above sink(optional)	102813
Resilient base	096500	F7 Coat hook	102813
Optional: quarry tile, resinous flooring, or integral vinyl cove base	093000 096723		
<u>Ceiling:</u>		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
<u>Walls:</u>		<u>Plumbing:</u>	
Painted concrete masonry units	042000 /099100	Wall-mounted water closet	224000
		Wall-mounted lavatory	224000
		Plumbing connections	224000/221116/221119
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
Wastebasket		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



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.

SPATIAL RELATIONSHIPS:

- Adjacent to kitchen
- Adjacent to restroom

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

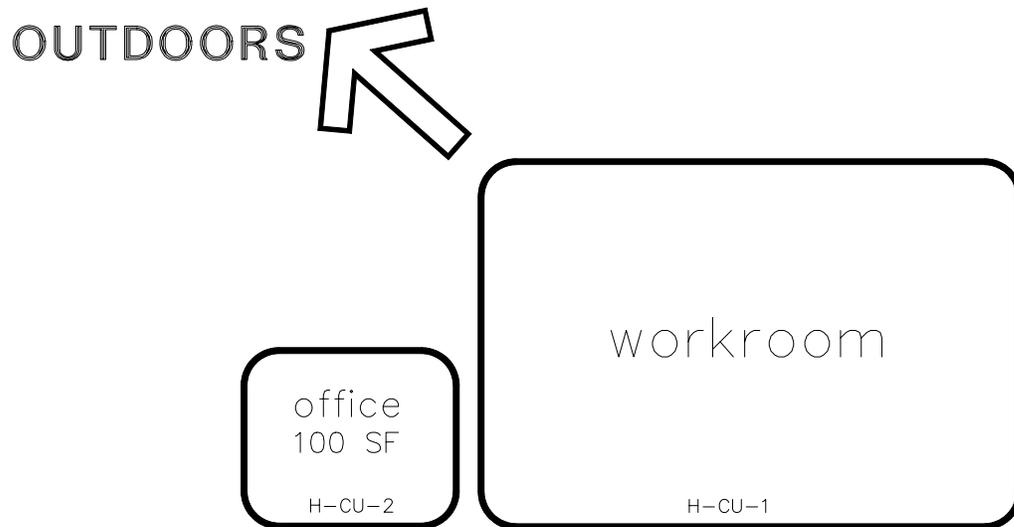
1. Loose furnishings shown represent one of many possible arrangements.

**LOCKER ROOM
H-FS-4**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Sheet vinyl, rubber, rubber tile, or resinous flooring	096500 096723	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
<u>Base:</u>		<u>Fire Suppression:</u>	
Resilient base, resinous flooring, or integral vinyl cove base	096500 096723	Fire suppression system	211000
<u>Ceiling:</u>		<u>Plumbing:</u>	
Suspended, acoustical with high-impact, hold-down clips	095113	Plumbing connections	224000/221116/221119
Option: exposed, painted pre-cast units	099100	Floor service sink	224000
		Washer connection	224000
<u>Walls:</u>		<u>HVAC:</u>	
Painted concrete masonry units	042000 /099100	Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		Dryer vent system	Div. 23
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
L1 Chairs		Single level switching	262726
Wastebasket		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		1 duplex receptacle	262726
		Connections for washer and dryer	262726
<u>EQUIPMENT:</u>		<u>Communications:</u>	
E1 Washer		Central sound system	275123
E2 Dryer		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Provide storage cabinet for supplies if required by governing agency.	

NOTES:

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



NOTES:

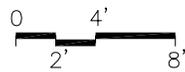
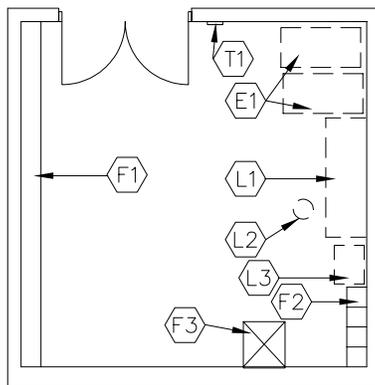
This is an example of how the custodial spaces in a high school could be arranged. This is meant only to demonstrate the relationships between various spaces of this area.

Following are the Custodial space plates:

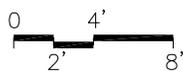
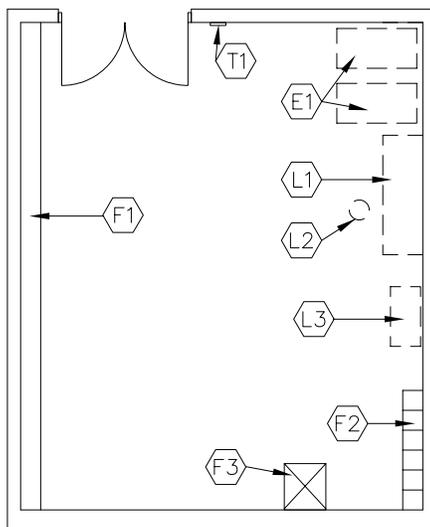
H-CU-1	Workroom
H-CU-2	Custodial Office

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200 SF



400 SF



CAPACITY:
SIZE:

N/A
200 - 800 SF

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Direct access to outside
- Near central storage area
- Near custodial office

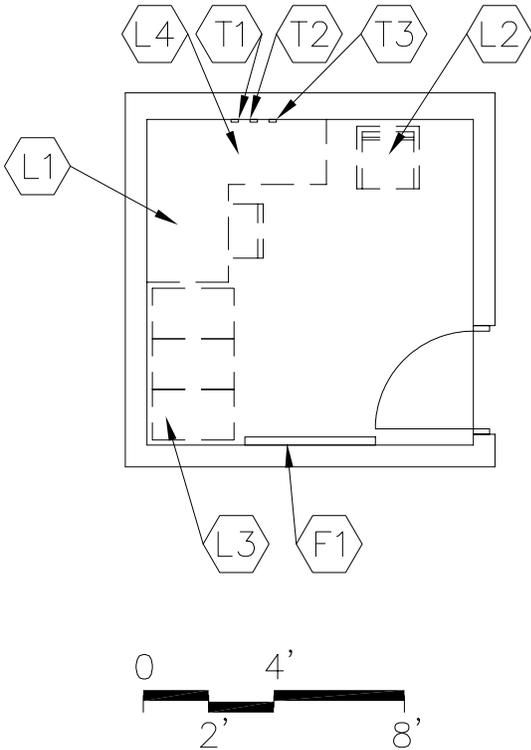
ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting

NOTES:

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

100 SF



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Near custodial workroom

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY: N/A
SIZE: 100 - 400 SF

NOTES:

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

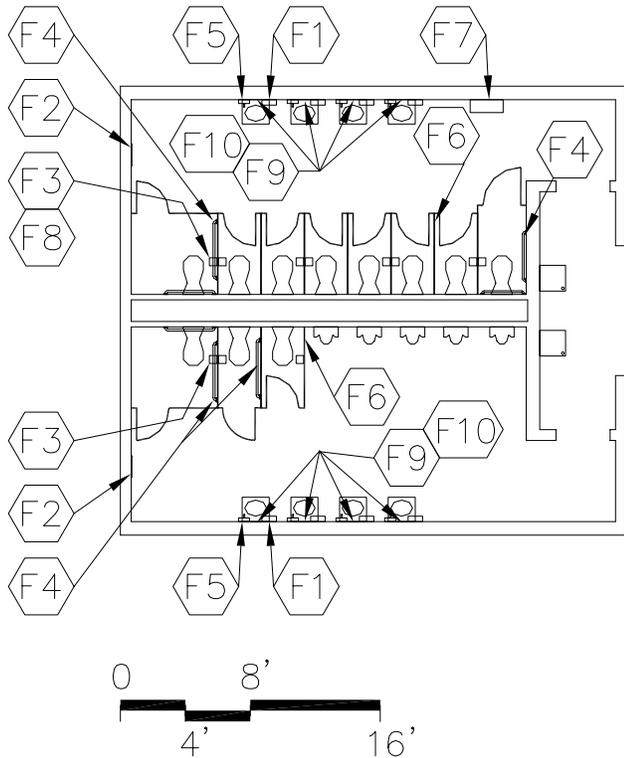
**CUSTODIAL OFFICE
H-CU-2**

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<u>Fixed Items:</u>	
Vinyl composition tile, linoleum, VET, sheet vinyl, or sealed concrete	096500 096516	F1 4' of tack board (optional)	101100
Base:		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Suspended, acoustical	095113	N/A	
Walls:		<u>HVAC:</u>	
Painted concrete masonry units	042000 /099100	Supply/return air system	Div. 23
		Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
L1 Desk and chair		Single level switching	262726
L2 Visitor chair		Fluorescent lighting	265100
L3 File cabinets		Illumination level: See Table 8600-4	
L4 Computer desk return		4 duplex receptacles	262726
Wastebasket		Double duplex receptacle adjacent to data and modem port	262726
		<u>Communications:</u>	
		T1 Modem port for temperature controls computer	271523
		T2 1 voice port and phone	271513/273113
		T3 1 data port near workstation	271513
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Interior window (optional)	081113/088000

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
- Groups of restrooms should be located in several areas throughout the building

SPATIAL RELATIONSHIPS:

- Near student dining area
- Near public use areas, such as media center and gymnasium
- Near academic core area

ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting
- Environmental sound control
 wall minimum STC 53
 ceiling minimum CAC 35, NRC **0.70**

NOTES:

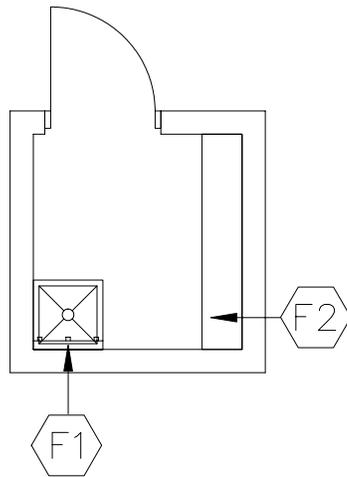
1. Where individual restrooms are provided in lieu of large group restrooms, refer to H-BS-10.

**LARGE GROUP RESTROOMS
H-BS-1**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Ceramic mosaic tile	093000	F1 Towel dispensers	102813
Optional: porcelain tile,	093000	F2 24" x 60" mirror	102813
terrazzo tile, rubber, or	096616	F3 Toilet tissue holders	102813
resinous flooring	096723	F4 36" and 42" grab bar	102813
		F5 Soap dispensers	102813
		F6 Toilet partitions	102113
<u>Base:</u>		F7 Sanitary product dispenser	102813
Ceramic mosaic tile base	093000	F8 Sanitary product receptacles	102813
Optional: structural glazed tile,	096616	F9 16" x 24" mirrors with shelf (optional)	102813
porcelain tile base, or	093000	F10 Shelves (optional)	123550
resinous flooring	096723		
		<u>Fire Suppression:</u>	
<u>Ceiling:</u>		Fire suppression system	211000
Suspended, acoustical	095113		
Option: Abuse resistant		<u>Plumbing:</u>	
gypsum wallboard	092116	Wall-mounted water closets	224000
		Wall-mounted urinals	224000
<u>Walls:</u>		Wall-mounted lavatories	224000
Painted concrete masonry unit		or wash fountains	
042000/099100		Wall hydrants	224000
		Plumbing connections	224000/221116/221119
<u>LOOSE FURNISHINGS:</u>		Floor drains	Div. 22
Waste Receptacles		Drinking water cooler	224000
		<u>HVAC:</u>	
		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		illumination level: See Table 8600-4	
		1 duplex receptacle	262726
		Emergency lighting	265100
		<u>Communications:</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



PROGRAM ACTIVITIES:

- Space for storage of custodial supplies throughout the building

SPATIAL RELATIONSHIPS:

- Near large group restrooms

ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting

CAPACITY:
SIZE:

N/A
50 SF

NOTES:

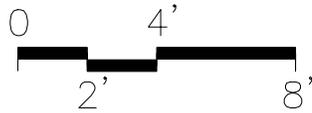
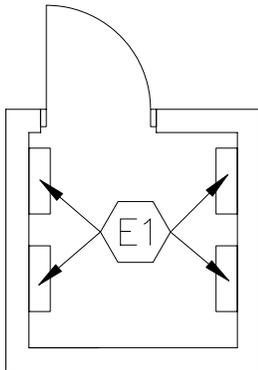
**CUSTODIAL CLOSET
H-BS-2**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Sealed concrete	033000	F1 Mop holder	102813
Vinyl composition tile (optional)	096500	F2 Fixed or loose shelving (optional)	123550
<u>Base:</u>		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
<u>Ceiling:</u>		<u>Plumbing:</u>	
Cleanable, suspended, acoustical	095113	Service sink or floor drain sink	224000
<u>Walls:</u>		Plumbing connections	224000/221116/221119
Painted concrete masonry units	042000/099100	<u>HVAC:</u>	
<u>LOOSE FURNISHINGS:</u>		Exhaust air system	Div. 23
Shelving (optional)		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

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



CAPACITY:
SIZE:

N/A
50 SF

PROGRAM ACTIVITIES:

- Space for electrical wiring and panels

SPATIAL RELATIONSHIPS:

N/A

ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting

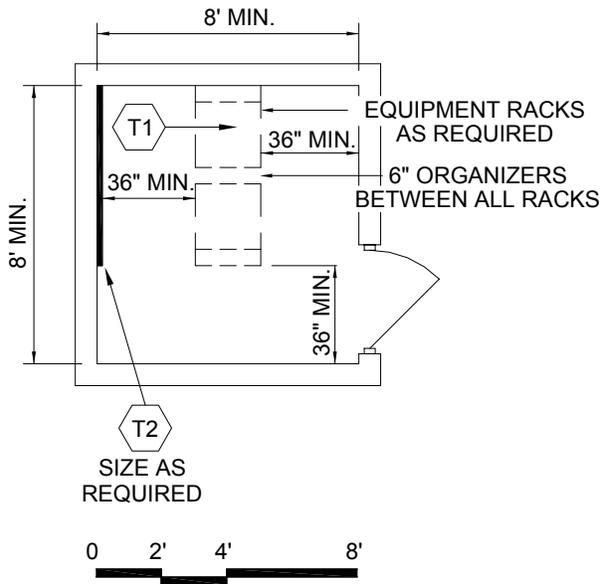
NOTES:

**ELECTRICAL CLOSET
H-BS-3**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring: Sealed concrete	033000	<u>Fixed Items:</u> N/A	
Base: No base		<u>Fire Suppression:</u> Fire suppression system	211000
Ceiling: Exposed structure	---	<u>Plumbing:</u> N/A	
Walls: Unpainted concrete masonry units	042000	<u>HVAC:</u> To be determined by Design Professional	
<u>LOOSE FURNISHINGS:</u> N/A		<u>Electrical:</u> Single level switching Fluorescent lighting Illumination level: See Table 8600-10 1 duplex receptacle E1 Electrical switchboard	262726 265100 262726 262413/262416
		<u>Communications:</u> N/A	
		<u>Electronic Safety and Security:</u> N/A	
		<u>Miscellaneous:</u> N/A	

NOTES:

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



PROGRAM ACTIVITIES:

- Space for technology needs

SPATIAL RELATIONSHIPS:

N/A

ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting

CAPACITY:	N/A
SIZE:	64 SF
0-75,000 SF =	(?) 8 ft. x 8 ft. min.
75,00-150,000 SF =	(1) 8 ft. x 10 ft., and (?) 8 ft. x 8 ft.
150,000 SF plus =	(2) 8 ft. x 10 ft., and (?) 8 ft. x 8 ft.

NOTES:

1. This is an example of a telecommunications room. The equipment and layout will vary from school district to school district.

**TELECOMMUNICATIONS ROOM
H-BS-4**

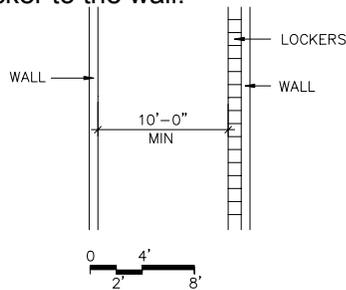
CHAPTER 6: HIGH SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Sealed concrete	033000	N/A	
Base:		<u>Fire Suppression:</u>	
No base		Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Exposed structure	---	N/A	
Walls:		<u>HVAC:</u>	
Unpainted concrete masonry units	042000	Exhaust air system	Div. 23
<u>LOOSE FURNISHINGS</u>		<u>Electrical:</u>	
N/A		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		1 duplex receptacle	262726
		Receptacles for data equipment	262726
		Telecommunications Grounding	270526/260526
		<u>Communications:</u>	
		T1 Technology equipment	
		Central sound system	275123
		Telephone Wiring	271313/271513
		Integrated Telephone System	273113
		Video Wiring	271333/271533/271543
		Digital on Demand Delivery System	274125
		Local Area Network Wiring	271513/271323
		Local Area Network Electronics	272100
		Grounding & Infrastructure Equipment	270526/271100
		T2 1/4" plywood back board	271313
		<u>Electronic Safety and Security:</u>	
		Security System	281300/281600/282300
		<u>Miscellaneous:</u>	
		N/A	

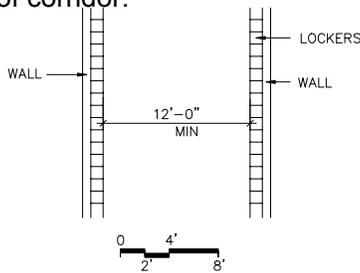
NOTES:

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

- Corridors shall be a minimum of 8 feet wide if no lockers are located in the corridor.
- Corridors shall be a minimum of 10 feet wide if lockers are located on one side of the corridor. The corridor width is from the face of the locker to the wall.



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



- Instructional and activity areas shall be accessible by corridors without passing through another instructional or activity area.
- The corridors are to meet the existing requirements of applicable codes
- Stairs, ramps, and elevators are included under the corridor category.
- It is recommended that stairs in multi-story buildings not be enclosed unless required by code.

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

PROGRAM ACTIVITIES:

- Circulation space

SPATIAL RELATIONSHIPS:

N/A

ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting

VESTIBULES

- Area of vestibules to be included within area allotted for corridors.
- Width of vestibules can be no less than minimum width of adjacent corridor.
- Minimum corridor length to be 8'-0" between doors.
- Vestibules are to be provided at major entrances/exits and may be eliminated at minor entrances/exits as determined by the Design Professional.
- Provide automatic door operator on one leaf of main entrance/exit door and related vestibule door.
- Provide **a five-step or fifteen foot walk off mat** extending from main outside entry doors into the building and as wide as the entry doors.
- **Option – entrance floor grilles. See Chapter 9, Section 124816.**

NOTES:

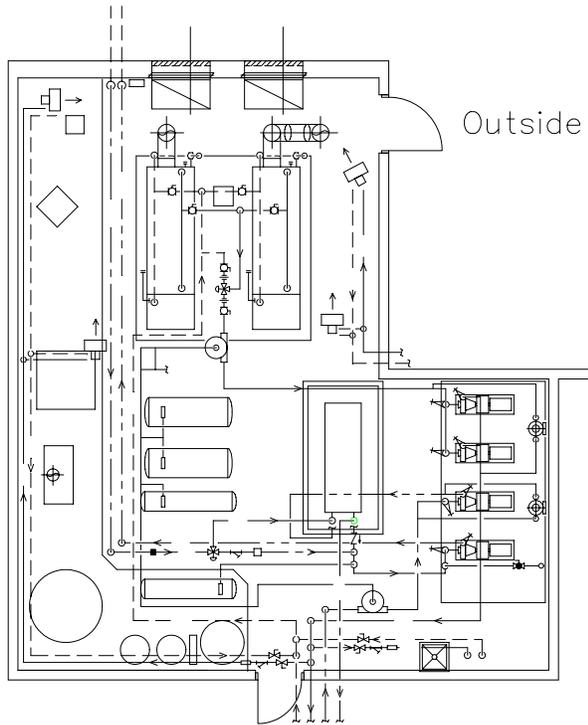
CORRIDORS
H-BS-5

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring²:</u>		<u>Fixed Items:</u>	
Vinyl composition tile, linoleum,	096516	Corridor lockers	105113
VET, sheet vinyl, VCTT,	096500	Fire extinguishers and cabinets	104400
carpet, or rubber	096816	Recessed vinyl floor mats or surface mats	124813
Base:		Tack board or tackable wall surface	101100
Resilient base	096500	<u>Fire Suppression:</u>	
Optional: structural glazed tile	042000	N/A	
Ceiling:		<u>Plumbing:</u>	
Suspended, acoustical	095113	Drinking water coolers	224000
Option in vestibules: Abuse resistant gypsum wallboard	092116	<u>HVAC:</u>	
Walls:		Supply/return air system	Div. 23
Painted concrete masonry units	042000/099100	Temperature control from adjacent instructional spaces	230923
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
Recycling bins and waste receptacles		Dual level switching	262726
Fixed or loose benches		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		Duplex receptacles	262726
		Double duplex receptacle adjacent to each video port	262726
		Means of egress lighting per code	265100
		Emergency lighting	265100
		<u>Communications:</u>	
		Video ports	271533/271543
		Data ports	271523
		Pay phone terminals	271513/273113
		Central sound system	275123
		Clocks	275313
		Wireless access points	271523/272100/272133
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		Security System	281300/281600/282300
		<u>Miscellaneous:</u>	
		Display cases and Directory	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Vinyl composition tile, linoleum, VET, or sheet vinyl is to be used in vestibules, stairwells, and elsewhere as appropriate. Porcelain tile or terrazzo 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:

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

NOTES:

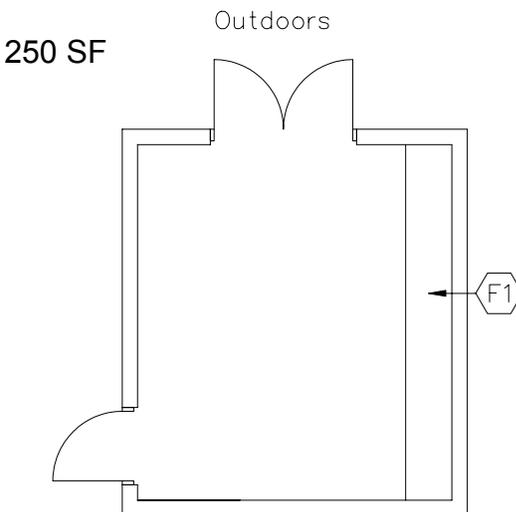
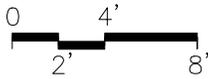
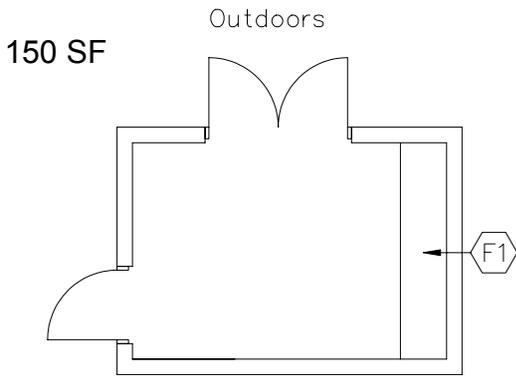
1. This is an example of a mechanical room. The equipment and layout will vary depending upon the heating, ventilating, and air conditioning system used.
2. A penthouse is considered a mechanical room.

MECHANICAL/ELECTRICAL SPACE/DECKS
H-BS-6

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Sealed concrete	033000	To be determined by Design Professional	
Base:		<u>Fire Suppression:</u>	
No base		To be determined by Design Professional	
Ceiling:		<u>Plumbing:</u>	
Exposed structure	---	To be determined by Design Professional	
Walls: (note 2)		<u>HVAC:</u>	
Unpainted concrete masonry units	042000	To be determined by Design Professional	
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
N/A		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		Others as determined by Design Professional	
		<u>Communications:</u>	
		Central sound system	275123
		Voice port and phone	271513/273113
		<u>Electronic Safety and Security:</u>	
		To be determined by Design Professional	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



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**

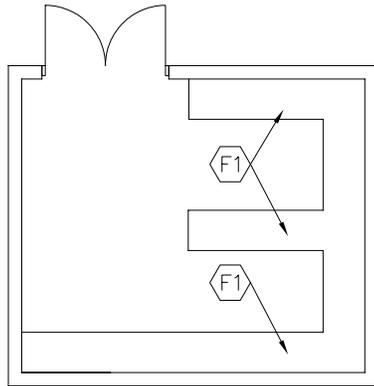
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items²:</u>	
Sealed concrete	033000	F1 8'-20' of open shelving , depths may vary (fixed or loose)	123550
Base:		<u>Fire Suppression:</u>	
No base		Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Exposed structure	---	N/A	
Walls:		<u>HVAC:</u>	
Unpainted concrete masonry units	042000	Exhaust air system	Div. 23
<u>LOOSE FURNISHINGS</u>		Supplemental heat as required	Div. 23
N/A		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		Duplex receptacles	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

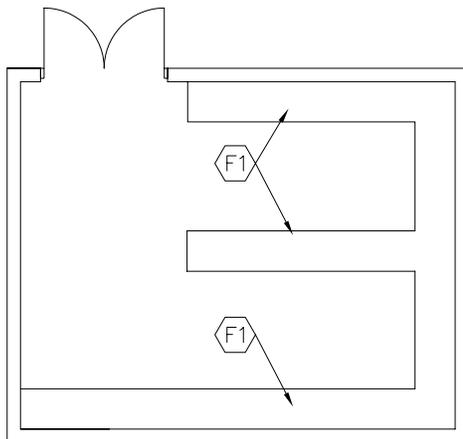
1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Ranges shown indicate quantities for the smallest and largest possible room size.

**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:

- Uniform lighting

NOTES:

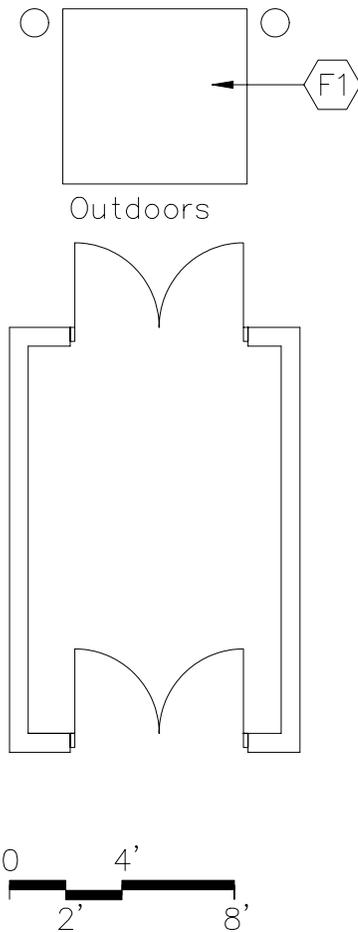
**CENTRAL STORAGE AREA
H-BS-8**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items²:</u>	
Sealed concrete	033000	F1 26' - 32' of open shelving (total), depths may vary (fixed or loose)	123550
Base:		Option: mobile storage shelving	105626
No base			
Ceiling:		<u>Fire Suppression:</u>	
Exposed structure	---	Fire suppression system	211000
Walls:		<u>Plumbing:</u>	
Unpainted concrete masonry units	042000	N/A	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
N/A		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		Duplex receptacles	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

Space to be determined by Design Professional.



CAPACITY:
SIZE:

N/A
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

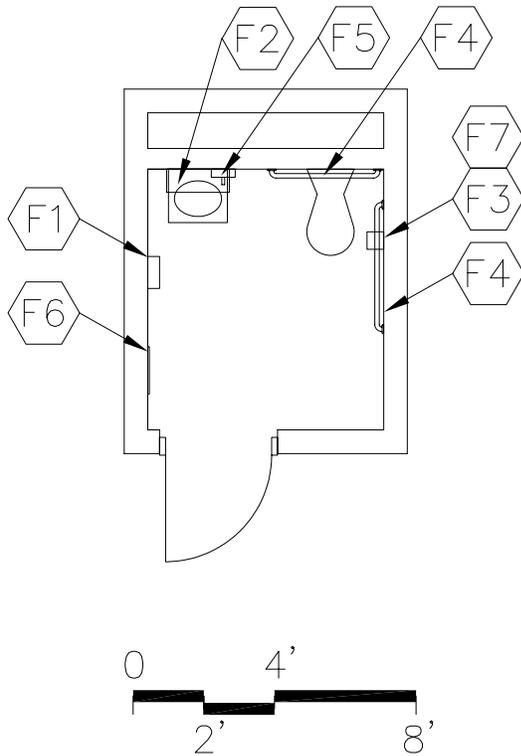
NOTES:

LOADING/RECEIVING AREA
H-BS-9

<u>FINISHES</u> ¹ :	Spec. Ref.#	<u>FEATURES</u> ¹ :	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Sealed concrete	033000	F1 Loading dock leveler and dock bumpers	111300
Base:		<u>Fire Suppression:</u>	
No base		Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Exposed structure		N/A	
Walls:		<u>HVAC:</u>	
Unpainted concrete masonry units	042000	Exhaust air system	Div. 23
<u>LOOSE FURNISHINGS</u>		Supplemental heat as required	Div. 23
N/A		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		Duplex receptacles	262726
		<u>Communications:</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



PROGRAM ACTIVITIES:

- Personal and health needs for the building occupants

SPATIAL RELATIONSHIPS:

- Near academic area

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY: 1 person
 SIZE: 50 SF
 ANCILLARY SPACES:

NOTES:

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

**RESTROOM
H-BS-10**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Linoleum, VET, sheet vinyl, or rubber	096516 096500	F1 Towel dispenser	102813
Optional: quarry tile, or resinous flooring	093000 096723	F2 Mirror with shelf above sink(optional)	102813
		F3 Toilet tissue holder	102813
		F4 36" and 42" grab bar	102813
		F5 Soap dispenser	102813
<u>Base:</u>		F6 Sanitary product dispenser	102813
Resilient base	096500	F7 Sanitary product receptacle	102813
Optional: quarry tile, resinous flooring, or integral vinyl cove base	093000 096723		
<u>Ceiling:</u>		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
<u>Walls:</u>		<u>Plumbing:</u>	
Painted concrete masonry units	042000/099100	Wall-mounted water closet	224000
		Wall-mounted lavatory	224000
		Plumbing connections	224000/221116/221119
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
Wastebasket		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-10	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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