

OHIO SCHOOL  
FACILITIES  
COMMISSION

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2010  
OHIO  
SCHOOL  
DESIGN  
MANUAL

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The Ohio School Facilities Commission is pleased to announce the 2010 Ohio School Design Manual (OSDM) update.

Each year the Commission revises the OSDM with support and valuable input from the design and construction community, school districts, state agencies and other interested parties. The result is a dynamic document that reinforces our commitment to high quality school facilities while maintaining flexibility and local control.

The manual is a cornerstone of the Commission's efforts to promote the 21<sup>st</sup> century learning environment, providing guidelines that serve the diverse needs of local school communities and their students. For our Design Professionals, the OSDM provides a wide selection of high quality materials and systems to serve the districts over the entire lifecycle of the building. This approach ensures that both the district and the taxpayers of Ohio achieve the maximum benefit from their investment.

Ohio continues to build on past design achievements that meet the U.S. Green Building Council's Leadership in Energy and Environmental Design (LEED) for Schools. The LEED system is the national benchmark for high performance green buildings.

The OSFC acknowledges the difficult design and construction tasks that ultimately result in the buildings so critical to our Ohio communities and the new educational goals set by Governor Strickland. There is a necessary balance measured between the complexity and cost of 21<sup>st</sup> century structures and the sustainability and maintenance requirements to be born by local taxpayers for decades to come. The OSFC will be guided by best practices, mindful that what we build today must last.

We look forward to working with you to design and build exciting educational environments for Ohio school students.

Sincerely,

Ohio School Facilities Commission

Richard C. Murray  
Executive Director

## FOREWORD

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# OHIO SCHOOL DESIGN MANUAL

## Ohio School Facilities Commission

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  - Building and Property Maintenance - 11
  - Building Technology - 11
  - Custodial Services - 12
  - Electrical Trades - 13
  - Environmental Controls Technologies - 14
  - Heavy Equipment (Construction) - 15
  - Integrated Systems Technology - 16
  - Interior Design and Application - 17
  - Manufacturing Design and Development - 18
  - Manufacturing Operations - 18
  - Natural Resource Management - 19
  - Plumbing and Pipefitting - 20
  - Power Equipment Technology - 21
  - Power Transmission - 22
  - Procurement, Acquisition, Logistics, and Supply Chain Management - 7
  - Welding and Cutting - 23
- CT-P5-2 Related Classroom
- CT-P5-3 Office
- CT-P5-4 Storage Area
- CT-P5-5 Changing Room
- CT-P5-6 Tool Crib
- CT-P5-7 Reference Room
- CT-P5-8 Toilet Room

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### **Program Type 6 – Table of Contents**

Spatial Relationship Diagram

Example

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  - Agriculture/Industrial Equipment - 7
    - Engine Storage / Flammable Material Storage
  - Auto Collision Repair - 10
    - Auto Parts Storage
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    - Engine Storage / Machine Room / Flammable Material Storage
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    - Finishing Room / Material Storage

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  - Retail
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- Precision Machining - 33
  - CNC Room / Inspection Room
- Wood Product Technologies - 36
  - Finishing Room / Material Storage
- CT-P6-2 Related Classroom
- CT-P6-3 Office
- CT-P6-4 Storage Area
- CT-P6-5 Changing Room
- CT-P6-6 Tool Crib
- CT-P6-7 Reference Room
- CT-P6-8 Toilet Room

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### **Program Type 7 – Table of Contents**

Spatial Relationship Diagram

Example

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CT-P7-2 Related Classroom

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	<b><i>7100-1 Consider Human Factors</i></b>
	<b><i>7100-3 Consider the Energy Ramifications</i></b>
	<b><i>7100-9 Account for Site Constraints and Benefits</i></b>
	<b><i>7100-9 Select Well-Integrated Daylighting Strategies</i></b>
	<b><i>7100-14 Optimize the Most Appropriate Daylighting Strategies</i></b>
	<b><i>7100-31 Accurately Simulate Daylighting Performance</i></b>
	<b><i>7100-33 Verify and Modify Your Design Process</i></b>
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	7200-10 Digital Video Projector
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<b>7400</b>	Solar Ready Schools
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8112	Metal Panel On Concrete Masonry Wall
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8114	Metal Panel on Metal Framing
8115	Metal Panel on Metal Framing
8116	Exterior Wall/Roof Closure

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8121	Shingle Roof System
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8123	Metal Roof with Rigid Insulation
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8125	Membrane Roof
8126	Recommended Roof Ridge
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8128	Recommended Wall-Low Roof

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#### Structural

8210	Materials and Systems
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#### HVAC

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8420	Design Criteria
8430	Systems Description

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8600	Systems
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275121	Student Dining / Auditoria Sound Reinforcement System – High School
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275123	Central Sound and Paging System
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9211	<u>Equipment</u> 112713 Dark Room Equipment 113100 Residential Appliances 116135 Pipe Grid 116615 Ballet Bars 116800 Play Field Equipment and Structures
9213	<u>Special Construction</u> 131900 Kennels and Animal Shelter Equipment 133413 Glazed Structures (Greenhouses) 133419 Metal Building Systems
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10010	Color Materials
10020	Loose Furnishings
10030	Food Service Equipment

### Chapter 10: Miscellaneous (Career-Technical)

10100	Loose Furnishings
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<b>PURPOSE</b>	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.
<b>INTRODUCTION</b>	<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>
<b>NO SMOKING SIGNS</b>	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)
<b>DIAGRAM</b>	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.
<b>PROGRAM ACTIVITIES</b>	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.
<b>SPATIAL RELATIONSHIPS</b>	Relationships of a particular room to other spaces and activities have been identified to assist the Design Professional in the design of the facility.
<b>ENVIRONMENTAL CONSIDERATIONS</b>	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.
<b>FINISHES</b>	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.
<b>OPERABLE WINDOWS</b>	<b><i>Operable windows are optional in exterior window fenestration.</i></b>

## INTRODUCTION

## CHAPTER 6: HIGH SCHOOL

### LOOSE FURNISHINGS

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

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

### FEATURES

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

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

### AREA

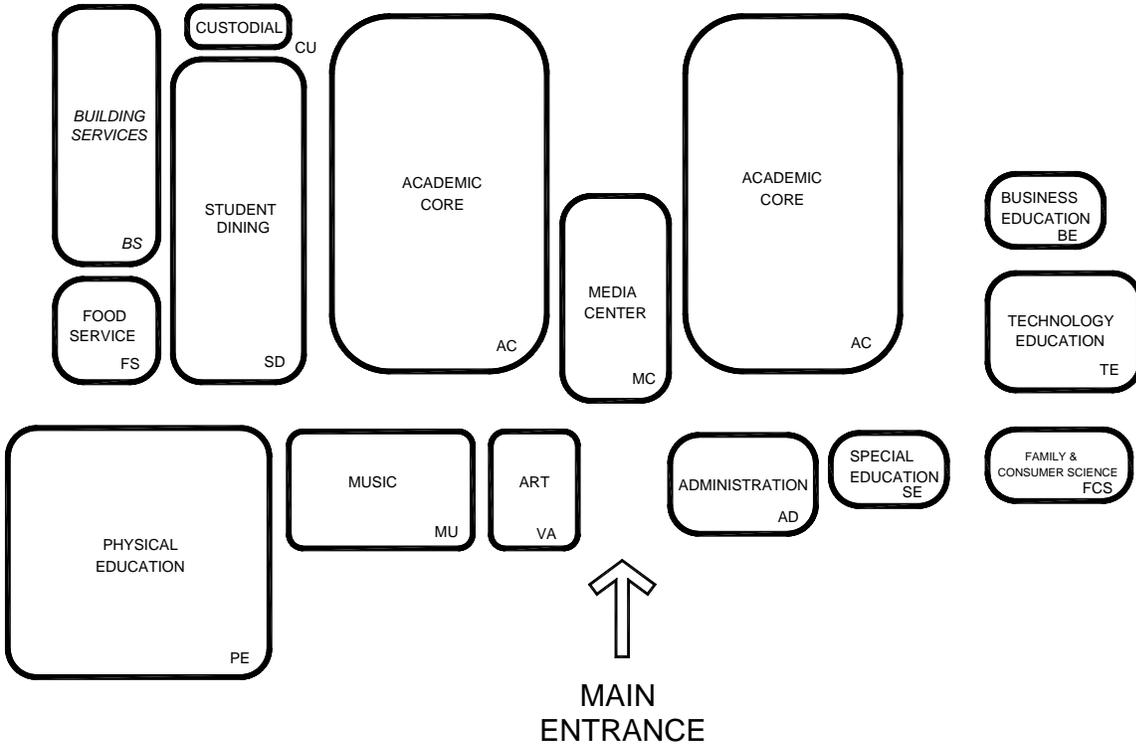
Square foot area given for the room is the necessary area. This area is given in net square feet – defined as the area within the walls of the room.

### 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. **Optional to provide data drop in classrooms. For extended learning areas (ELA), access to the data network is required.**

### LIGHTING

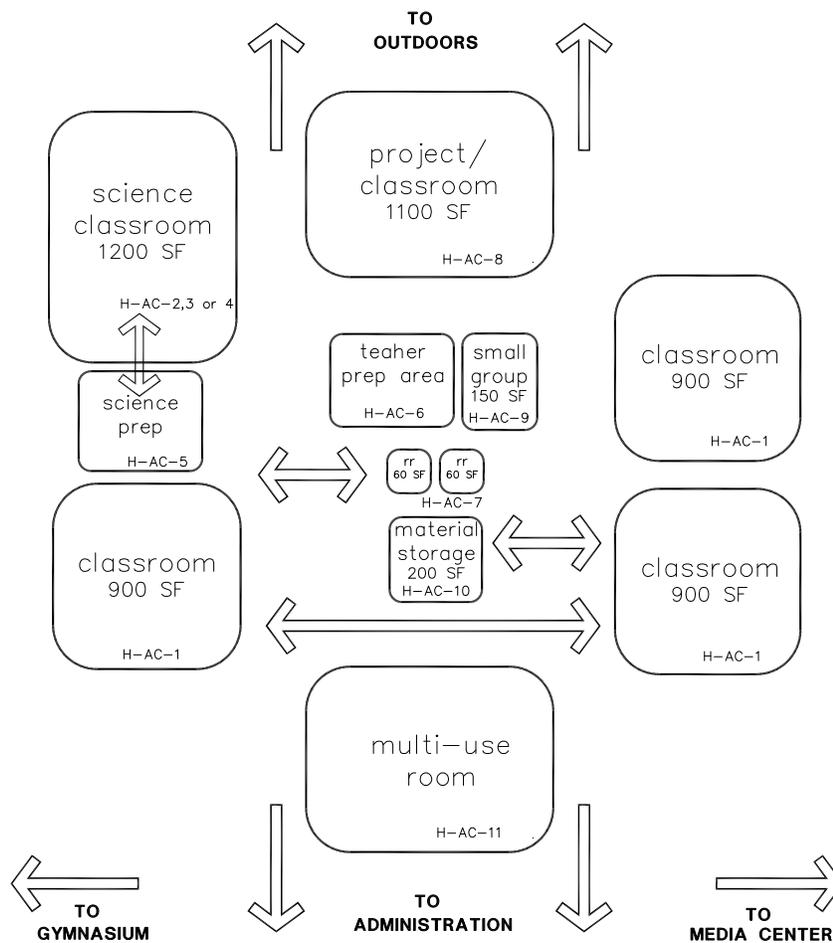
Interior lighting shall be controlled by occupancy sensors, automatic timed lighting controlled system or a combination of both to comply with ASHRAE 90.1. Exterior lighting shall be controlled by photosensor or astronomical time clock to comply with ASHRAE 90.1 to automatically turn lighting off when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

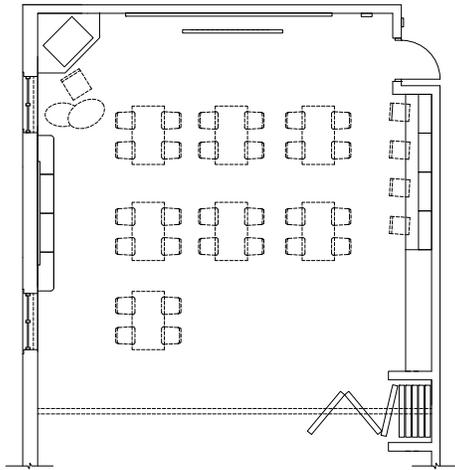
Following are the Academic Core space plates:

- 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

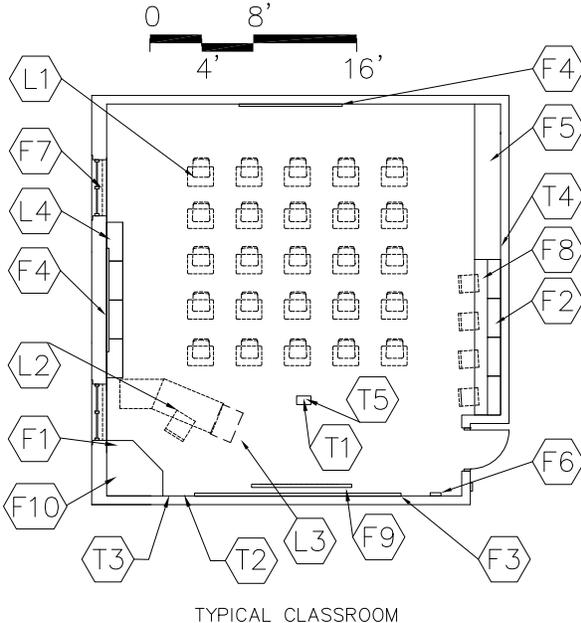
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## HIGH SCHOOL CLASSROOM H-AC-1

### CHAPTER 6: HIGH SCHOOL



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.

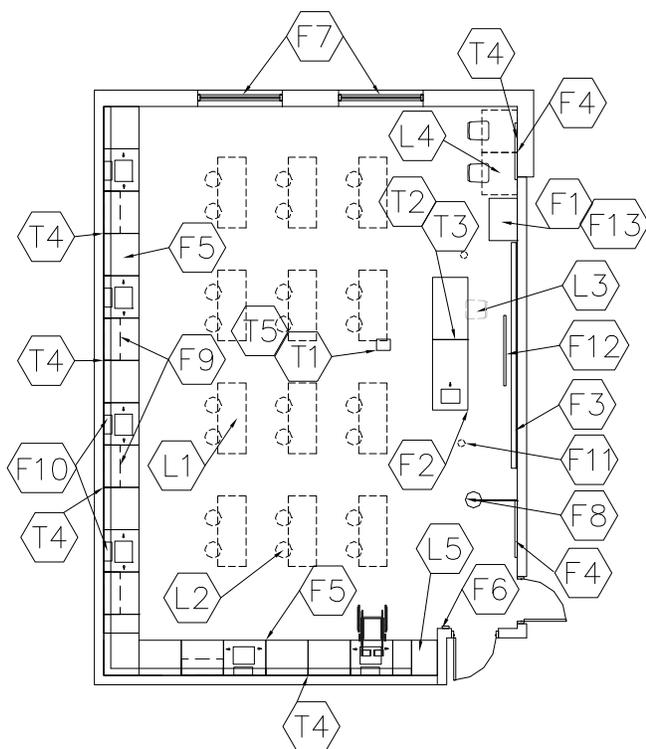
**HIGH SCHOOL CLASSROOM  
H-AC-1**

## CHAPTER 6: HIGH SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet, <b>carpet tile</b>	096816	F1 3' of tall wardrobe with file drawers	123550
Optional: linoleum, ET, sheet vinyl, or rubber	096516 096500 <b>096813</b>	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 **could** 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

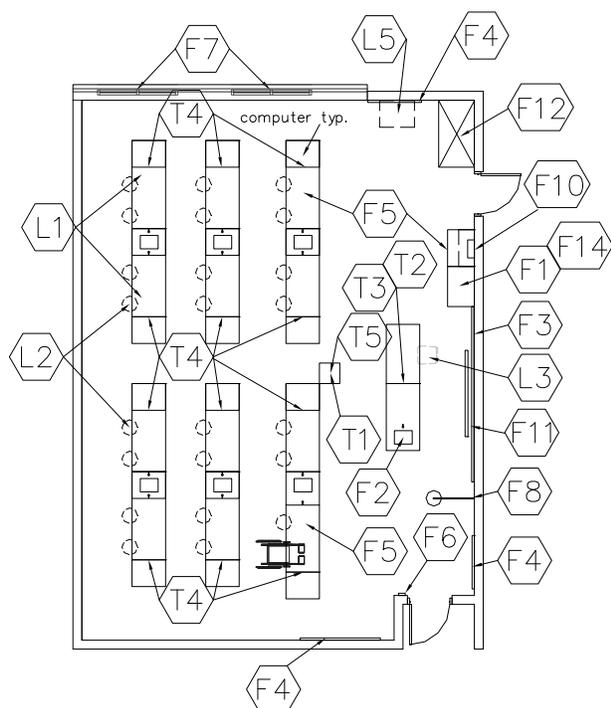
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Linoleum,	096500	F1 3' of tall wardrobe with file drawers	123553
rubber, ET, sheet vinyl,	096516	F2 Demonstration table/teacher desk	123553
polished concrete finishing,	033510	F3 10'-16' of chalk/marker board	101100
or colored concrete finishing	033519	F4 10'-16' of tack board	101100
		F5 40'-60' of lab casework with sinks	123553
		F6 Pencil sharpener support	062000
		F7 Windows with integral blinds	085113
<u>Base:</u>		F8 Emergency shower/eyewash	224000
Resilient base	096500	F9 18'-24' of wall cabinets	123553
		F10 Towel dispensers (optional)	102813
<u>Ceiling:</u>		F11 2 eye hooks for demonstrations(optional)	055000
Suspended, acoustical	095113	F12 Projection screen (optional)	115213
		F13 Technology support casework	123553
<u>Walls:</u>		<u>Fire Suppression:</u>	
Painted concrete masonry units		Fire suppression system	211000
042000/099100		<u>Plumbing:</u>	
		Plumbing connections	
		224000/221116/221119	
		Emergency shower/eyewash	224000
		connections	226313
		Gas connections (optional)	226313
		Master shutoff for gas	221500
		Compressed air connections(optional)	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Student work tables		Supply/return air system	Div. 23
L2 Student stools/chairs		Independent temperature control	230923
L3 Teacher chair or stool		Manual exhaust	Div. 23
L4 Computer workstation furniture		<u>Electrical:</u>	
L5 File cabinet		Fluorescent lighting:	265100
Wastebasket		illumination level: See Table 8600-4	
Pencil sharpener		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
L4 could be fixed casework.			

**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.

## SCIENCE CLASSROOM- CHEMISTRY H-AC-3

### CHAPTER 6: HIGH SCHOOL



#### 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

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

#### NOTES:

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

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

## CHAPTER 6: HIGH SCHOOL

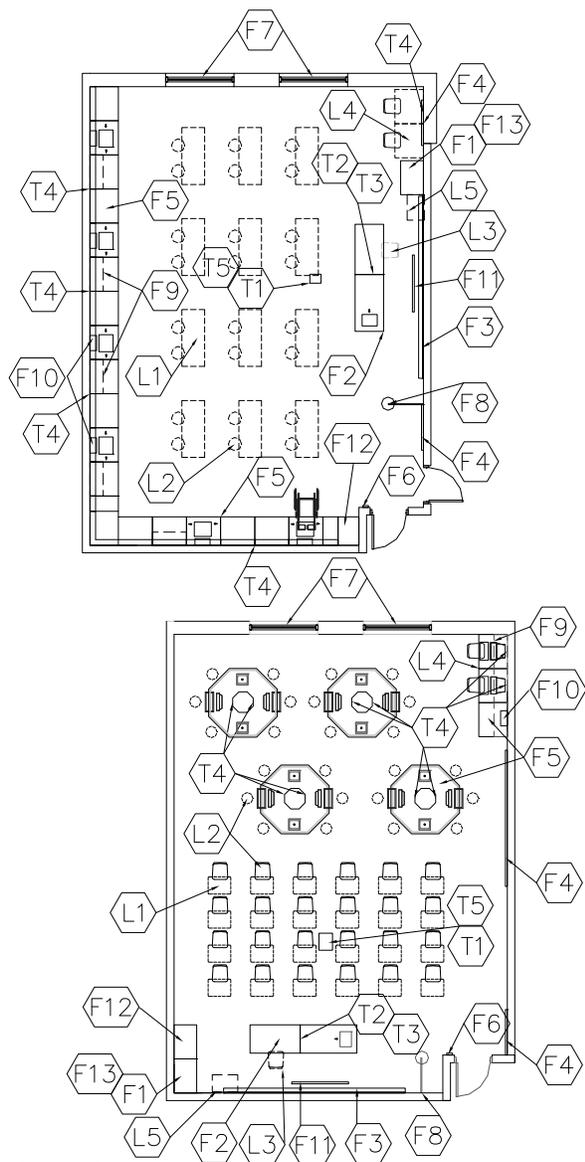
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Vinyl sheet flooring, linoleum, rubber, <i>ET</i> , vinyl composition tile, <b>polished concrete finishing, or colored concrete finishing</b>	096500 096516 <b>033510 033519</b>	F1 3' of tall wardrobe with file drawers F2 Demonstration table/teacher desk F3 10'-16' of chalk/marker board F4 10'-16' of tack board F5 40'-60' lab casework with sinks F6 Pencil sharpener support F7 Windows with integral blinds F8 Emergency shower/eyewash F9 18'-24' of wall cabinets (optional) F10 Towel dispensers (optional) F11 Projection screen (optional) F12 Fume hood F13 Tall cabinet for microscopes(optional) F14 Technology support casework	123553 123553 101100 101100 123553 062000 085113 224000 123553 102813 115213 115313 123550 123550
<u>Base:</u>		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
<u>Ceiling:</u>		<u>Plumbing:</u>	
Suspended, acoustical	095113	Plumbing connections 224000/221116/221119 Emergency shower/eyewash connections Master shut-off for gas Gas connections Compressed air connections (optional) Acid waste piping Neutralization tank	224000 224000 226313 226313 221500 221316 221323
<u>Walls:</u>		<u>HVAC:</u>	
Painted concrete masonry units 042000/099100		Supply/return air system Independent temp control Manual exhaust Exhaust for fume hood	Div. 23 230923 Div. 23 Div. 23
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
L1 Student work tables		Fluorescent lighting: Illumination level: See Table 8600-4 Multilevel switching Duplex receptacles at perimeter workstations and teaching wall Double duplex receptacle adjacent to each data and video port Emergency lighting Means of egress lighting per code	265100 262726 262726 262726 265100 265100
L2 Student stools/chairs		<u>Communications:</u>	
L3 Teacher chair or stool		T1 1 video port T2 1 voice port and phone T3 1 data port at demonstration table T4 4 data ports (minimum) for student use Central sound system Clock Sound reinforcement system	271533/271543 271513/273113 271513 271513 275123 275313 275127
L4 Computer workstation furniture		T5 Overhead projector	274119
L5 File cabinet		<u>Electronic Safety and Security:</u>	
Wastebasket		Life safety devices per code	283111
Pencil sharpener			
L4 Could be fixed casework			

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.

## SCIENCE CLASSROOM - BIOLOGY H-AC-4

### CHAPTER 6: HIGH SCHOOL



**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.

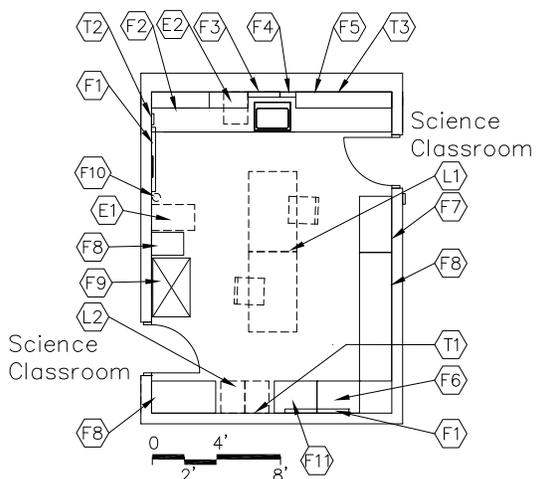
**SCIENCE CLASSROOM - BIOLOGY  
H-AC-4**

## CHAPTER 6: HIGH SCHOOL

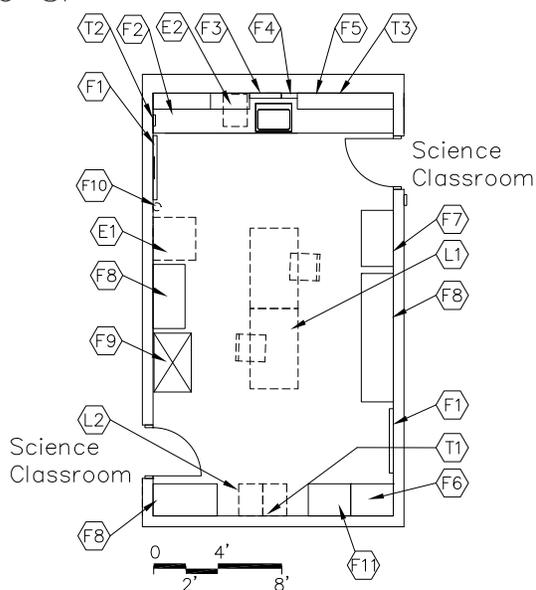
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Linoleum,	096500	F1 3' of tall wardrobe with file drawers	123553
Rubber, ET, sheet vinyl	096516	F2 Demonstration table/teacher desk	123553
polished concrete finishing,	033510	F3 10'-16' of chalk/marker board	101100
or colored concrete finishing	033519	F4 10'-16' of tack board	101100
		F5 40'-60' of lab casework with sinks	123553
		F6 Pencil sharpener support	062000
<u>Base:</u>		F7 Windows with integral blinds	085113
Resilient base	096500	F8 Emergency shower/eyewash	224000
		F9 18'-24' of wall cabinets (total)	123553
<u>Ceiling:</u>		F10 Towel dispensers (optional)	102813
Suspended, acoustical	095113	F11 Projection screen (optional)	115213
		F12 Tall cabinets (optional)	123550
		F13 Technology support casework	123550
<u>Walls:</u>		<u>Fire Suppression:</u>	
Painted concrete masonry units	042000/099100	Fire suppression system	211000
		<u>Plumbing:</u>	
		Plumbing connections	224000/221116/221119
<u>LOOSE FURNISHINGS:</u>		Emergency shower/eyewash	224000
L1 Student work tables		connections	226313
L2 Student stools/chairs		Master shut-off for gas	226313
L3 Teacher chair or stool		Gas connections	221500
L4 Computer workstation furniture		Compressed air connections (optional)	221316
L5 File cabinet		Acid waste piping	<b>221323</b>
Wastebasket		<u>HVAC:</u>	
Pencil sharpener		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
<u>NOTES:</u>			
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.			

## CHAPTER 6: HIGH SCHOOL

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.

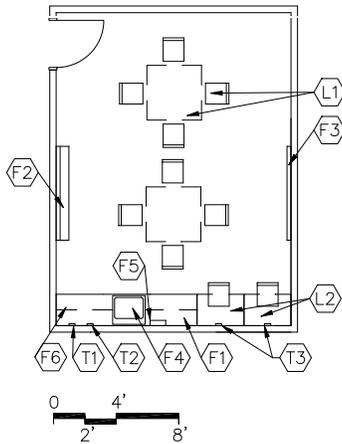
**SCIENCE PREP  
H-AC-5**
**CHAPTER 6: HIGH SCHOOL**

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Vinyl sheet flooring, linoleum, rubber, <b>ET</b> , or vinyl composition tile, <b>polished concrete finishing, or colored concrete finishing</b>	096516 096500 <b>033510</b> <b>033519</b>	F1 4' of tack board F2 8'-15' of lab station with sink F3 Drying rack with pegs (optional) F4 Towel dispenser (optional) F5 8'-15' of wall cabinets F6 Storage cabinets for acids, Ventilated (optional)	101100 123553 123553 102813 123553 123553
<u>Base:</u>		F7 Storage cabinets for flammables(optional) F8 8'-16' of tall storage cabinets F9 Fume hood (optional) F10 Emergency eyewash (if applicable) F11 Chemical storage cabinets with acid resistant lining	123553 123553 123553 224000 123553
Resilient base	096500		
<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
<u>LOOSE FURNISHINGS:</u>		Acid waste system	Div. 23
L1 Work tables with chemical-resistant top		Gas connections	226313
L2 2 file cabinets		Compressed air connections(optional)	221500
Wastebasket		Access to neutralization tank	221323
<u>EQUIPMENT</u>		<u>HVAC:</u>	
E1 Refrigerator/freezer (optional)		Supply/return air system	Div. 23
E2 Dishwasher (optional)		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	
<u>NOTES:</u>			
1. Finishes/Features: Refer to Chapter 9 for specification references.			

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

CHAPTER 6: HIGH SCHOOL

300 SF



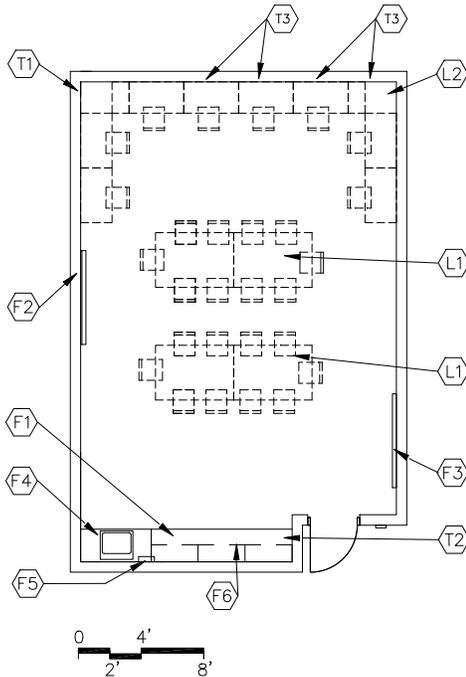
**PROGRAM ACTIVITIES:**

- 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

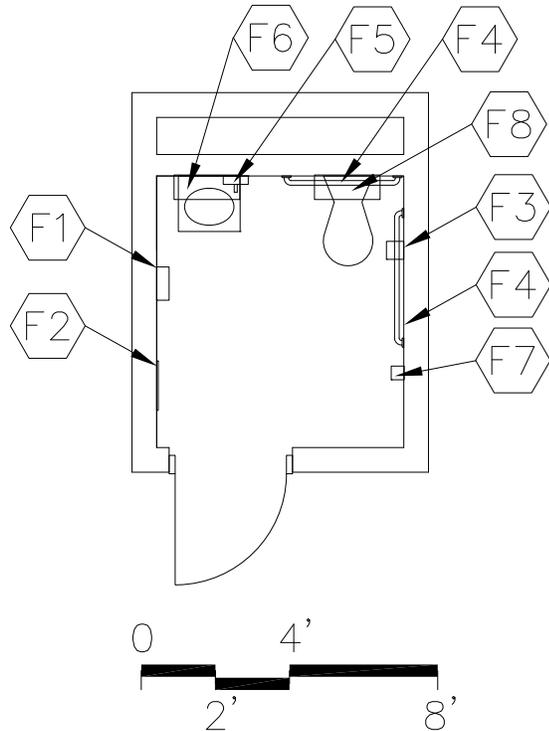
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items<sup>2</sup>:</u>	
Carpet, <b>carpet tile</b> , ET, linoleum, vinyl sheet, or rubber	096816	F1 6' - 9' of base cabinets (could be bookcases)	123550
	096500	F2 6'-8' of chalk/marker board	101100
	096516	F3 4'-8' of tack board	101100
	<b>096813</b>	F4 3' sink base cabinet	123550
<u>Base:</u>		F5 Towel dispenser (optional)	102813
Resilient base	096500	F6 6' – 9' of wall cabinets	123550
<u>Ceiling:</u>		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression systems	211000
<u>Walls:</u>		<u>Plumbing:</u>	
Painted concrete masonry units		Sink	224000
	042000/099100	Plumbing connections	224000/221116/221119
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Tables and chairs		Supply/return air system	Div. 23
L2 Computer workstation furniture		Independent temperature control	230923
Wastebasket		<u>Electrical:</u>	
L2 could be fixed casework.		<b>Single-level switching</b>	<b>262726</b>
		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	

NOTES:

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

**INDIVIDUAL RESTROOM  
H-AC-7**

CHAPTER 6: HIGH SCHOOL



**PROGRAM ACTIVITIES:**

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

**SPATIAL RELATIONSHIPS:**

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

**ENVIRONMENTAL CONSIDERATIONS:**

- 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: **60 SF**

**NOTES:**

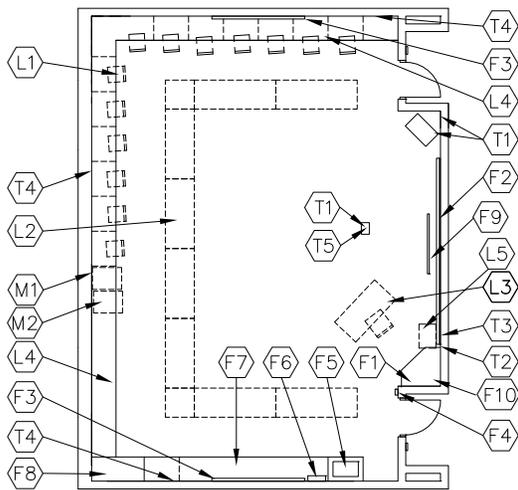
**INDIVIDUAL RESTROOM  
H-AC-7**

CHAPTER 6: HIGH SCHOOL

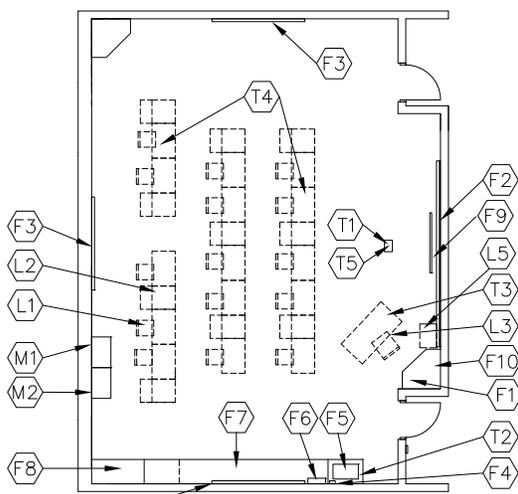
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Linoleum, rubber, <b>ET</b> , or sheet vinyl	096516 096500	F1 Towel dispenser	102813 102813
Optional: Ceramic mosaic tile, porcelain tile, or resinous flooring	093000 096723	F2 24" x 60" mirror	102813
		F3 Toilet tissue holder	102813
		F4 36" and 42" grab bar	102813
		F5 Soap dispenser	102813
		F6 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>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.



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:

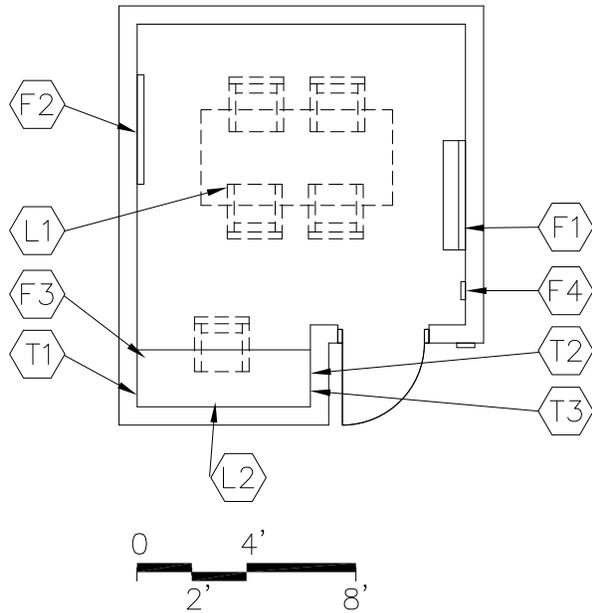
1. Loose furnishings shown represent two of many possible arrangements.
2. Depending upon the educational program of the district, a tall wardrobe may be placed in this classroom or could be placed in a teacher prep area/workroom.

**PROJECT/CLASSROOM  
H-AC-8**
**CHAPTER 6: HIGH SCHOOL**

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet, <b>carpet tile</b>	096816	F1 3' of tall wardrobe with file drawers	123550
Optional: ET, sheet vinyl, linoleum, or rubber	096500 096516 <b>096813</b>	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
		Double duplex receptacle adjacent to each data and video port	262726
L4 could be fixed casework.		<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.



CAPACITY:  
SIZE:

4 - 5 students  
150 SF

## 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**

NOTES:

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

**SMALL GROUP ROOM  
H-AC-9**

## CHAPTER 6: HIGH SCHOOL

<u>FINISHES</u> <sup>1</sup> :	Spec. Ref.#	<u>FEATURES</u> <sup>1</sup> :	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Carpet, <b>carpet tile</b>	096816	F1 4'-6' of chalk/marker board	101100
Optional: ET, sheet vinyl, linoleum, or rubber	096500 096516 <b>096813</b>	F2 4' of tack board	101100
		F3 4'-6' of work surface (optional)	123550
		F4 Pencil sharpener support	062000
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 Work tables and chairs		Fluorescent lighting:	265100
L2 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 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>	
		Interior window(optional)	081113/088000

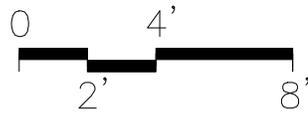
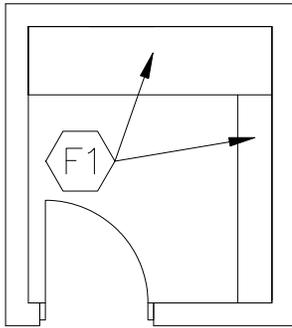
NOTES:

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

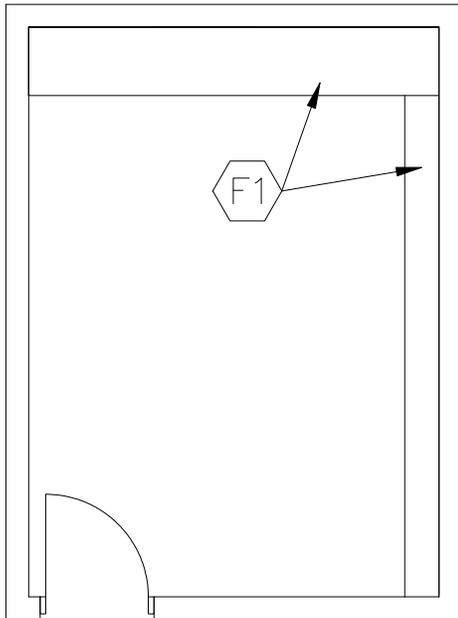
**INSTRUCTIONAL MATERIAL STORAGE  
H-AC-10**

**CHAPTER 6: HIGH SCHOOL**

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:**

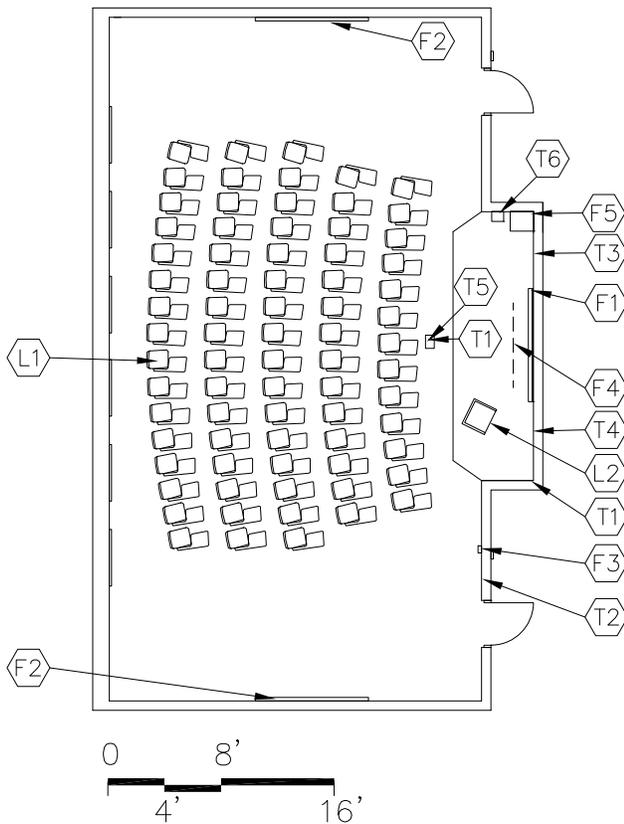
**INSTRUCTIONAL MATERIAL STORAGE  
H-AC-10**

CHAPTER 6: HIGH SCHOOL

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

**NOTES:**

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



CAPACITY:  
SIZE:

100 students  
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**

CHAPTER 6: HIGH SCHOOL

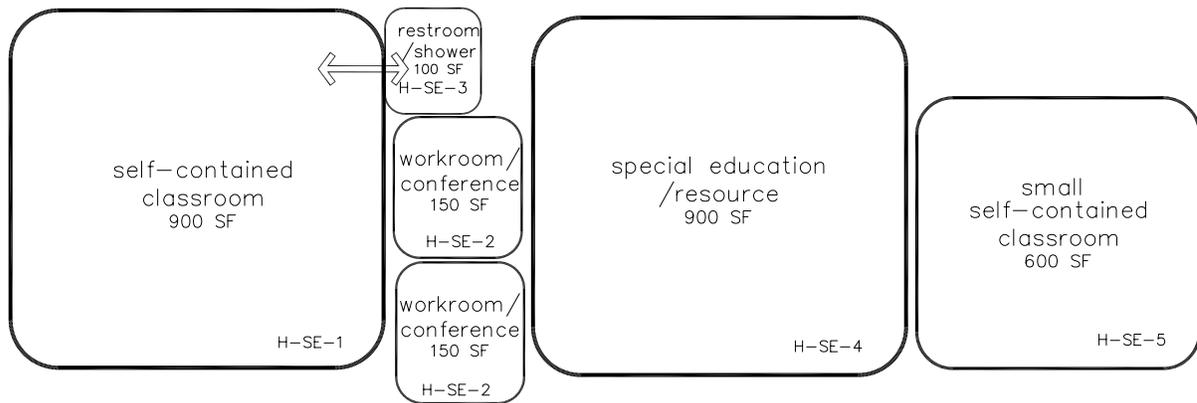
	Spec. Ref.#	FEATURES <sup>1</sup> :	Spec. Ref.#
<b>FINISHES<sup>1</sup>:</b>		<b>Fixed Items:</b>	
Flooring:		F1 8'-12' of chalk/marker board	101100
Carpet, <i>carpet tile</i>	096816 <b>096813</b>	F2 8'-16' of tack board	101100
Base:		F3 Pencil sharpener support	062000
Resilient base	096500	F4 Projection screen (optional)	115213
Ceiling:		F5 Technology support casework	123550
Suspended, acoustical	095113	<b>Fire Suppression:</b>	
Walls:		Fire suppression system	211000
Painted concrete masonry units	042000/099100	<b>Plumbing:</b>	
Acoustical wall treatment	098000	N/A	
<b>LOOSE FURNISHINGS:</b>		<b>HVAC:</b>	
L1 Student desks and chairs		Supply/return air system	Div. 23
L2 Podium / console (optional)		Independent temperature control	230923
Portable risers		<b>Electrical:</b>	
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
		<b>Communications:</b>	
		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
		<b>Electronic Safety and Security:</b>	
		Life safety devices per code	283111
		<b>Miscellaneous:</b>	
		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.

**SPECIAL EDUCATION SPACES  
H-SE**

**CHAPTER 6: HIGH SCHOOL**



**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.

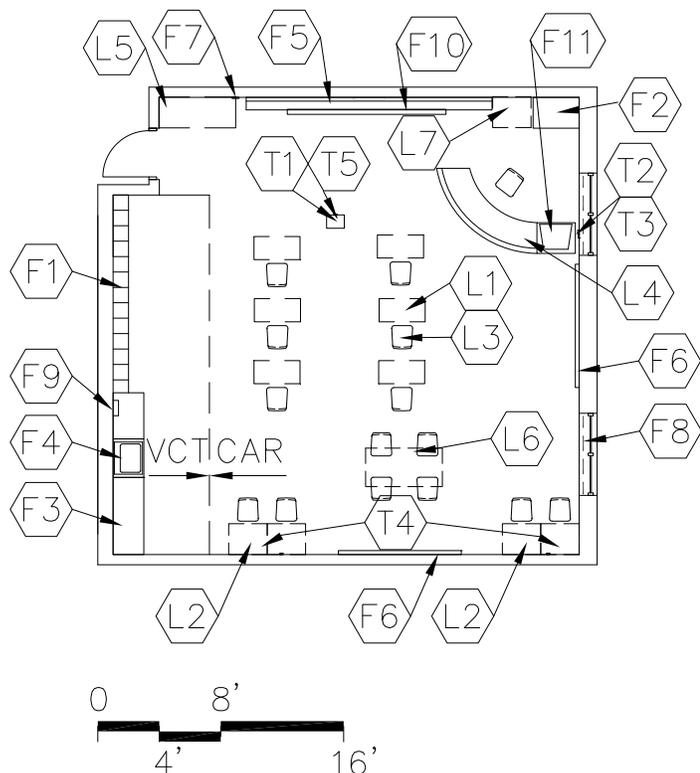
Following are the Special Education space plates:

- 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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## SELF-CONTAINED CLASSROOM H-SE-1

### CHAPTER 6: HIGH SCHOOL



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.

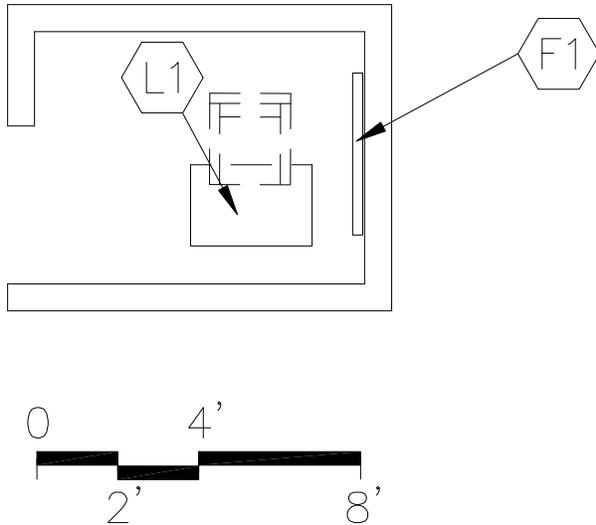
**SELF-CONTAINED CLASSROOM  
H-SE-1**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Combination carpet, <b>carpet tile</b> , with resilient options	096816 096500	F1 Open casework – coats and personal items with wall cabinets above	123550 123550
Optional: All ET, sheet vinyl, linoleum, or rubber	096516 <b>096813</b>	F2 3' of tall wardrobe w/file drawers	123550
		F3 8'-10' of base & wall cabinets	123550
		F4 3' sink base cabinet	123550
		F5 12'-16' of chalk/marker board	101100
		F6 12'-16' of tack board or tackable wall surface or combination	101100
<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
<u>Walls:</u>		F13 Tall storage cabinet(optional)	123550
Painted concrete masonry units	042000/099100		
		<u>Fire Suppression:</u>	
		Fire suppression system	211000
		<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			
L4 Teacher workstations/computer support and chair		<u>Electrical:</u>	
L5 8'-10' of low bookcases (fixed or mobile)		Fluorescent lighting	265100
L6 Reading table		Illumination level: See Table 8600-4	
L7 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>	
<u>EQUIPMENT(optional)</u>		T1 1 video port	271533/271543
E1 Washer and dryer		T2 1 voice port and phone	271513/273113
E2 Small refrigerator		T3 1 data port near teacher workstation	271513
E3 Range		T4 4 data ports (minimum) for student use	271513
E4 Oven		Clock	275313
E5 Microwave		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>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.

**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

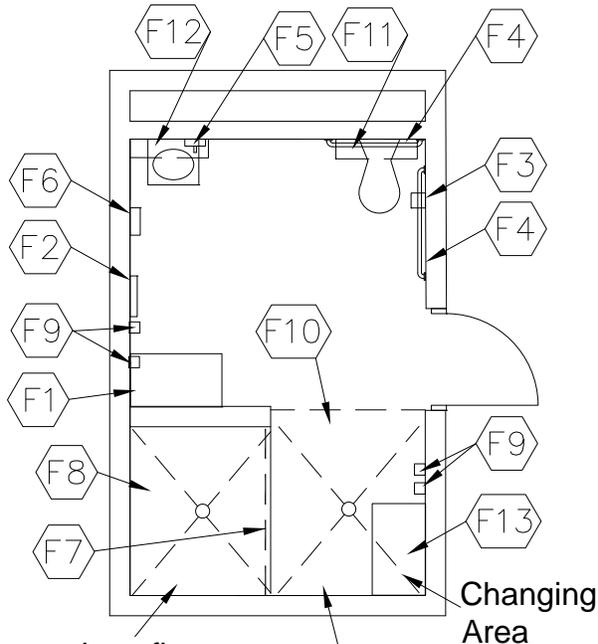
<u>FINISHES</u> <sup>1</sup> :	Spec. Ref.#	<u>FEATURES</u> <sup>1</sup> :	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Carpet, <b>carpet tile</b> , ET, linoleum, or sheet vinyl	096816 096500 096516 <b>096813</b>	F1 4' of tack board (optional)	101100
Base:		<u>Fire Suppression:</u>	
Resilient base	096500	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.

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

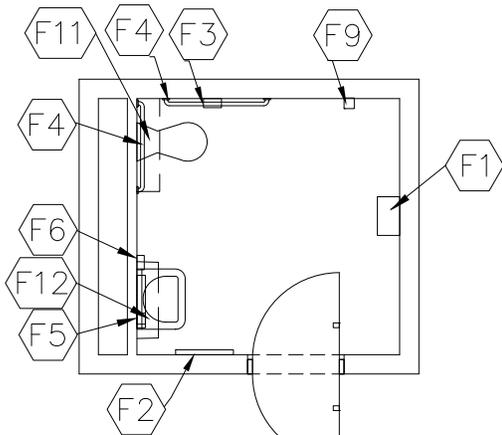
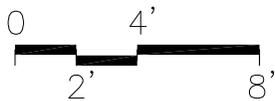
**CHAPTER 6: HIGH SCHOOL**



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

Drying Area;  
5' x 5' sloped floor

Changing Area



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**

CHAPTER 6: HIGH SCHOOL

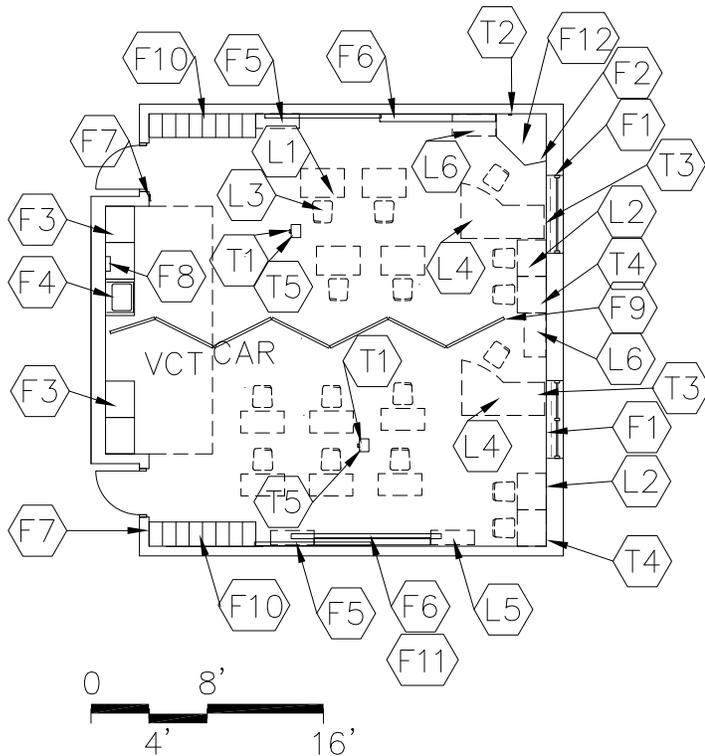
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Restroom: Linoleum, <b>ET</b> , vinyl	096516	F1 Base cabinets	123550
sheet flooring, or rubber sheet	096500	F2 24" x 60" mirror	102813
flooring,	093000	F3 Toilet tissue holder	102813
Shower: Ceramic mosaic tile, or		F4 36" and 42" grab bar	102813
porcelain tile		F5 Soap dispenser	102813
		F6 Towel dispenser	102813
<u>Base:</u>		F7 Shower curtain and rod	102813
Restroom: Resilient base, or	096500	F8 ADA shower accessories	102813
integral vinyl cove base	093000	F9 (2) towel hooks	102813
Shower: Ceramic mosaic tile base,		F10 Cubicle curtain (optional)	102813
porcelain tile, or integral vinyl cove base		F11 8" deep wall cabinet above toilet	102813
		F12 Shelf (optional)	102813
<u>Ceiling:</u>		<b>F13 Changing station or fold-down adult changing station</b>	<b>123550</b>
Restroom: Suspended, acoustical	095113		
Shower: Painted portland		<u>Fire Suppression:</u>	
cement plaster or	092400/099100	Fire suppression system	211000
interior finish system	092513		
<u>Walls:</u>		<u>Plumbing:</u>	
Epoxy painted concrete		Wall-mounted water closet	224000
masonry units	042000/099100	Wall-mounted lavatory	224000
or ceramic wall tile in shower	093000	ADA shower controls and head	224000
and latex paint in restroom	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.
2. **Refer to ADAAG 4.21 for grab bar and control locations.**

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

**CHAPTER 6: HIGH SCHOOL**



**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**

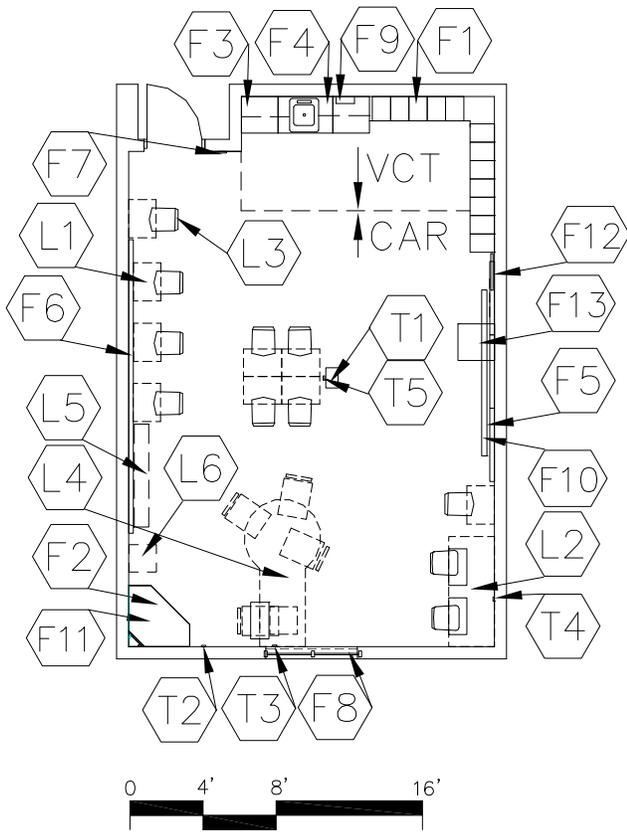
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Combination carpet, <b>carpet tile</b> , with resilient options	096816 096500	F1 Windows with integral blinds	085113
Option: All ET, sheet vinyl, linoleum, or rubber	096516 <b>096813</b>	F2 3' of tall wardrobe with file drawers	123550
		F3 8'-12' of base cabinets	123550
		F4 3' sink base cabinet	123550
		F5 10'-16' of chalk/marker board	101100
		F6 10'-16' of tack board or tackable wall surface or combination	101100
<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 storage w/wall cabinets above	123550
Suspended, acoustical	095113	F11 Projection screen (optional)	115213
		F12 Technology support casework	123550
<u>Walls:</u>		F13 Mirror (optional)	102813
Painted concrete masonry units	042000/099100	F14 Mobile storage cabinet (optional)	123550
<u>LOOSE FURNISHINGS:</u>		<u>Fire Suppression:</u>	
L1 Student desks/tables		Fire suppression system	211000
L2 Computer workstation furniture			
L3 Student chairs		<u>Plumbing:</u>	
L4 Teacher desk /computer support and chair		Sink	224000
L5 Mobile bookcases or storage unit		Plumbing connections	224000/221116/221119
L6 File cabinet			
Wastebasket		<u>HVAC:</u>	
Pencil sharpener		Supply/return air system	Div. 23
		Independent temperature control	230923
		<u>Electrical:</u>	
		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.

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

## CHAPTER 6: HIGH SCHOOL



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

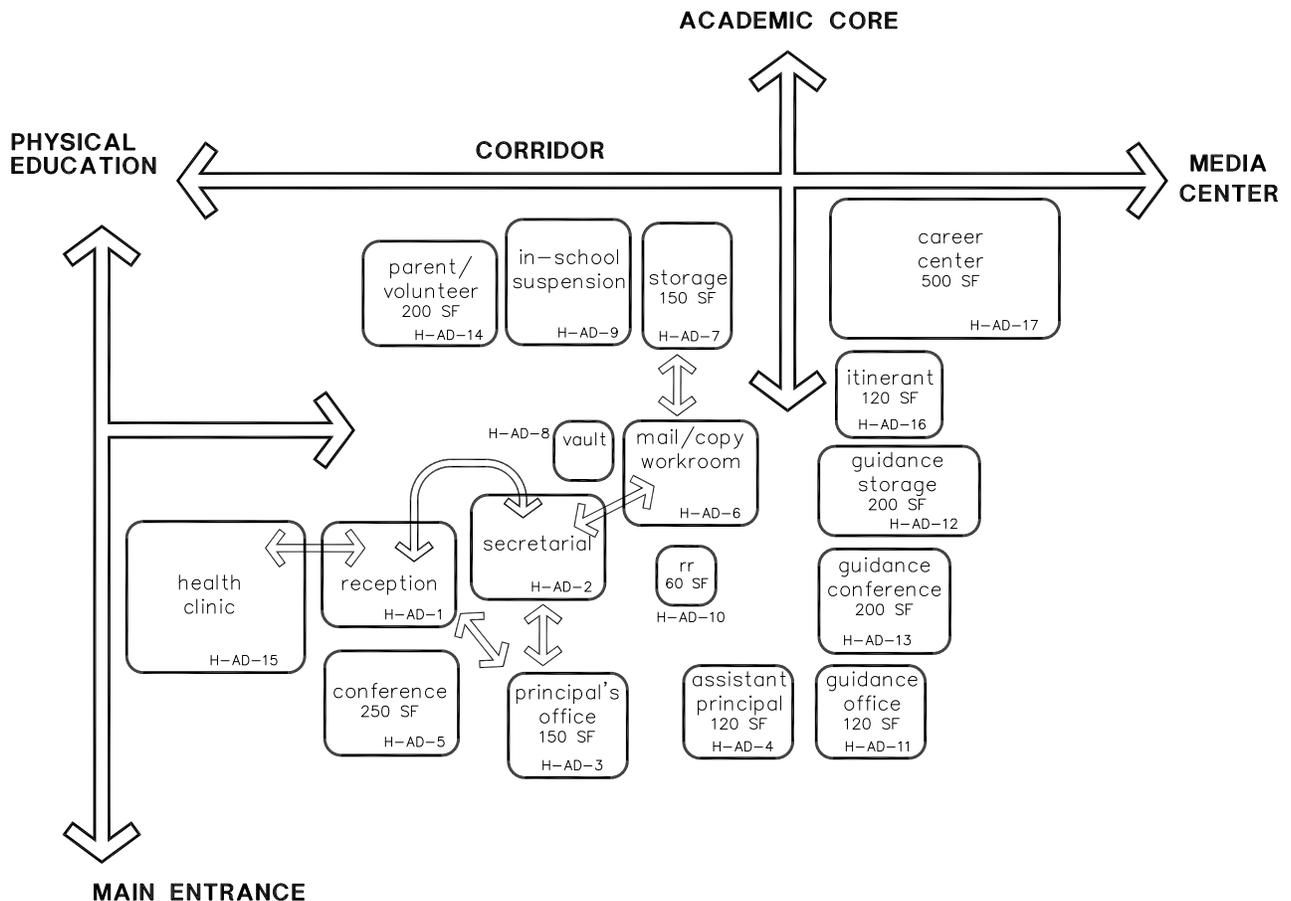
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Combination carpet, <b>carpet tile</b> , with resilient options	096816 096516	F1 Open casework – coats and personal items with wall cabinets above	123550 123550
Option: All ET, sheet vinyl, linoleum, or rubber	096500 <b>096813</b>	F2 3' of tall wardrobe w/file drawers	123550
		F3 About 6' of base & wall cabinets (total)	123550
		F4 3' sink base cabinet	123550
		F5 10'-12' of chalk/marker board	101100
		F6 10'-16' of tack board or tackable wall surface or combination	101100
<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
<u>Walls:</u>		F13 Mobile storage cabinet (optional)	123550
Painted concrete masonry units	042000/099100		
		<u>Fire Suppression:</u>	
		Fire suppression system	211000
		<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 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.

## ADMINISTRATIVE SPACES H-AD

### CHAPTER 6: HIGH SCHOOL



#### NOTE:

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

Following are the Administrative space plates for the following rooms:

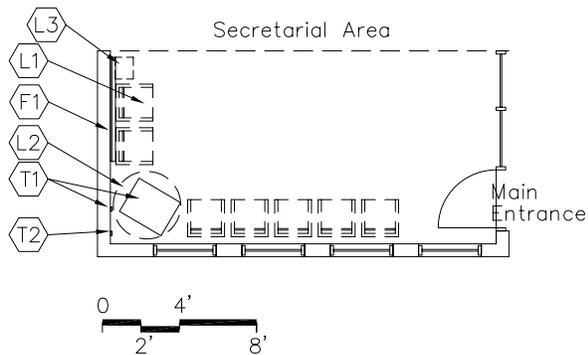
H-AD-1	Reception Area	H-AD-10	Restroom
H-AD-2	Secretarial Area	H-AD-11	Guidance Counselor's office
H-AD-3	Principal's Office	H-AD-12	Guidance Records/Storage
H-AD-4	Assistant Principal's Office	H-AD-13	Guidance Conference Room
H-AD-5	Conference Room	H-AD-14	Parent/Volunteer Room
H-AD-6	Mail/Work/Copy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

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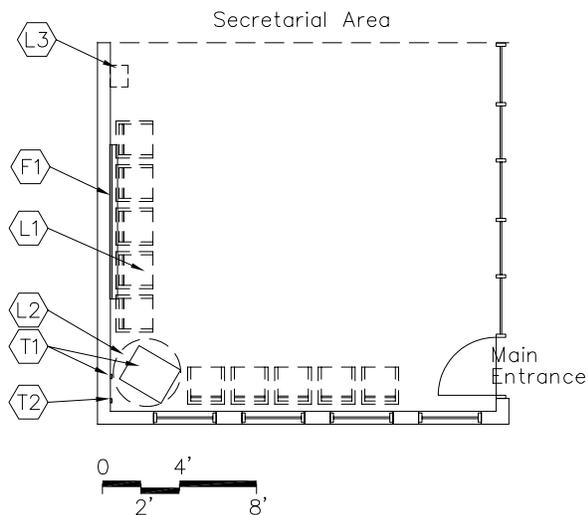
## RECEPTION AREA H-AD-1

### CHAPTER 6: HIGH SCHOOL

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**

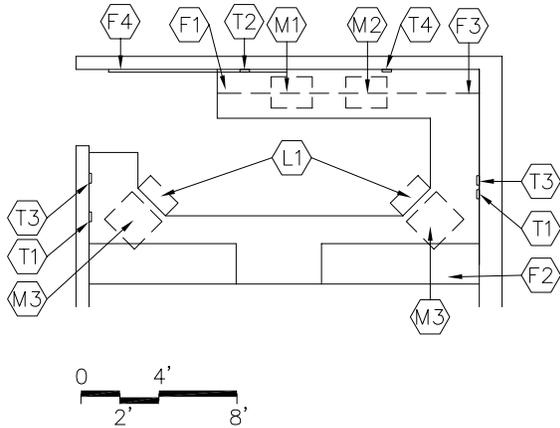
CHAPTER 6: HIGH SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Carpet <i>or Carpet Tile</i>	096816 <b>096813</b>	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	<b>092116</b> /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

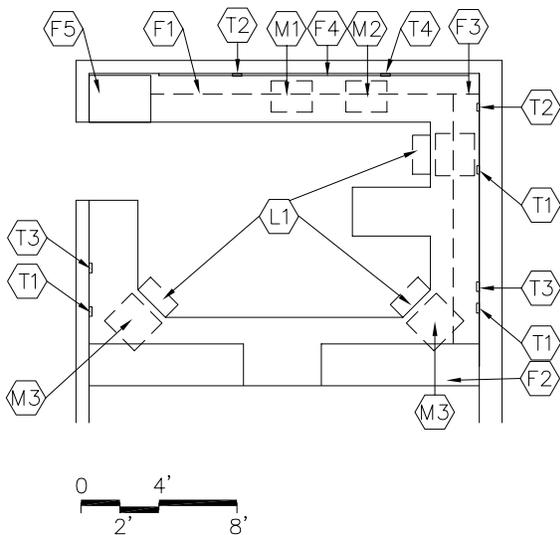
NOTES:

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.

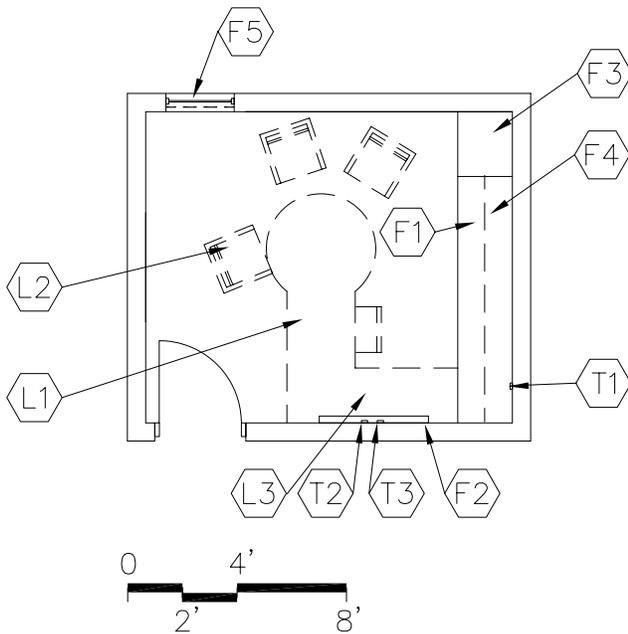
**SECRETARIAL AREA  
H-AD-2**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items<sup>2</sup>:</u>	
Carpet <i>or</i> Carpet Tile	096816 <b>096813</b>	F1 24' - 60' of work surface with file drawers	123550
Base:		F2 42" high counter top	123550
Resilient base	096500	with portion of counter 34" high or lower	
Ceiling:		F3 16'-24' of wall cabinets for forms, supplies, books, and manuals	123550
Suspended, acoustical	095113	F4 Tackable wall surface (optional)	101100
Walls:		F5 Tall cabinet for coats (optional)	123550
Painted gypsum wallboard over metal studs	<b>092116/099100</b>	<u>Fire Suppression:</u>	
<u>LOOSE FURNISHINGS:</u>		Fire suppression system	211000
L1 Secretarial chairs		<u>Plumbing:</u>	
Wastebasket		N/A	
		<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Temperature control with reception area	230923
		(coupled with similarly loaded adjacent spaces)	
		<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	271513/273113
		at each secretarial workstation	
		T2 1 fax port	271513/273113
		T3 1 data port	271513
		at each secretarial workstation	
		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.

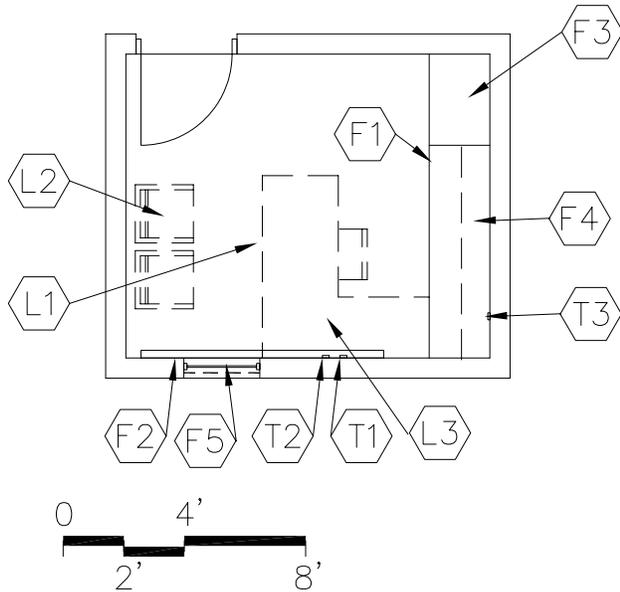
**PRINCIPAL'S OFFICE  
H-AD-3**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>			
Carpet <i>or</i> Carpet Tile	096816 <b>096813</b>	<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	<b>F5 Window with integral blind</b>	<b>085116</b>
<u>Walls:</u>			
Painted gypsum wallboard over metal studs	<b>092116 / 099100</b>	<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**

CHAPTER 6: HIGH SCHOOL

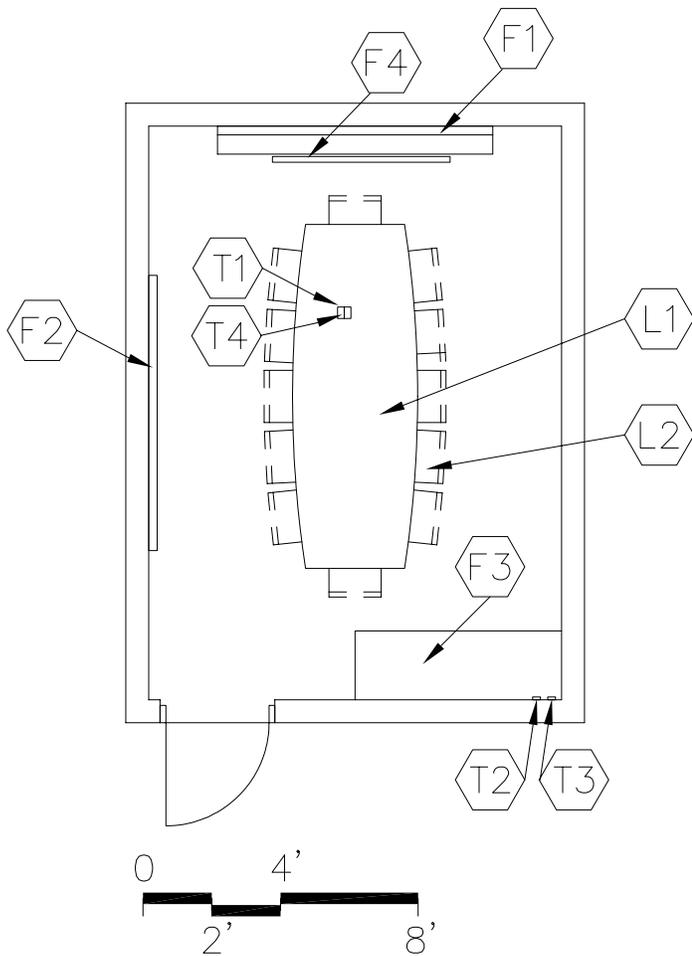
<u>FINISHES</u> <sup>1</sup> :	Spec. Ref.#	<u>FEATURES</u> <sup>1</sup> :	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Carpet <i>or Carpet Tile</i>	096816 <b>096813</b>	F1 Work surface with file drawers	123550
Base:		F2 4' of tack board or tackable wall surface	101100
Resilient base	096500	F3 2' of tall wardrobe	123550
Ceiling:		F4 Wall cabinets above work surface	123550
Suspended, acoustical	095113	<b>F5 Window with integral blind</b>	<b>085116</b>
Walls:		<u>Fire Suppression:</u>	
Painted gypsum wallboard over metal studs	<b>092116/099100</b>	Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Desk and chair		N/A	
L2 Visitor chairs		<u>HVAC:</u>	
L3 Computer desk return		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>	
		N/A	

NOTES:

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

## CONFERENCE ROOM H-AD-5

### CHAPTER 6: HIGH SCHOOL



#### 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>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Carpet <i>or Carpet Tile</i>	096816 <b>096813</b>	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	<b>092116/099100</b>	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	

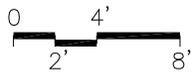
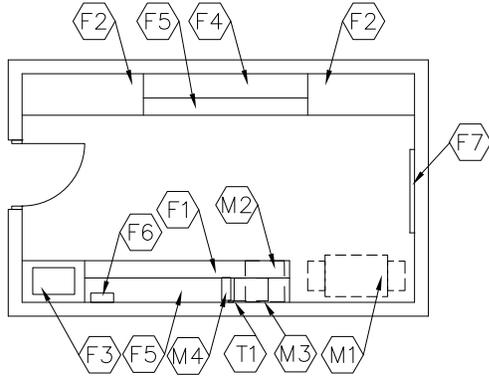
NOTES:

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.

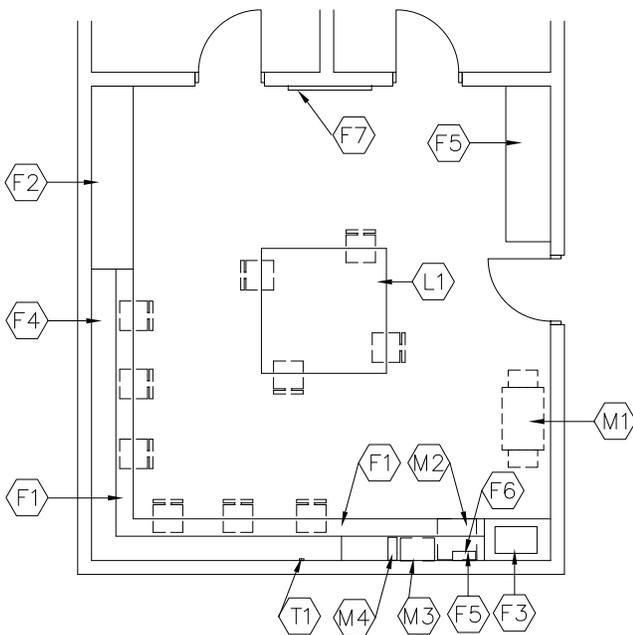
**MAIL/WORK/COPY ROOM  
H-AD-6**

**CHAPTER 6: HIGH SCHOOL**

200 SF



500 SF



CAPACITY:  
SIZE:

N/A  
200 - **800 SF**

**PROGRAM ACTIVITIES:**

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

**SPATIAL RELATIONSHIPS:**

- Near secretarial area

**ENVIRONMENTAL CONSIDERATIONS:**

- 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**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
<b>Rubber</b>	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
		F7 4' tack board (optional)	101100
<u>LOOSE FURNISHINGS:</u>		<u>Fire Suppression:</u>	
L1 Work table and chairs		Fire suppression system	211000
(applicable in 300 SF space only)		<u>Plumbing:</u>	
Wastebasket		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	

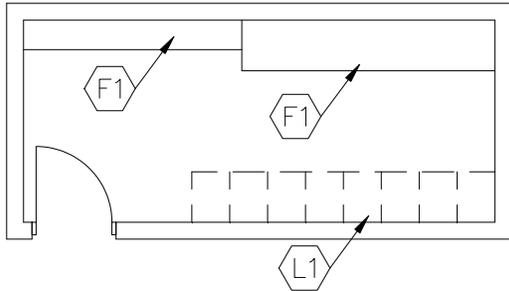
NOTES:

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

**ADMINISTRATIVE STORAGE  
H-AD-7**

CHAPTER 6: HIGH SCHOOL

150 SF



CAPACITY: N/A  
 SIZE: 150 - 400 SF

**PROGRAM ACTIVITIES:**

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

**SPATIAL RELATIONSHIPS:**

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

**ENVIRONMENTAL CONSIDERATIONS:**

N/A

**NOTES:**

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

**ADMINISTRATIVE STORAGE  
H-AD-7**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
<b>Rubber</b>	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>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 File cabinets		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	

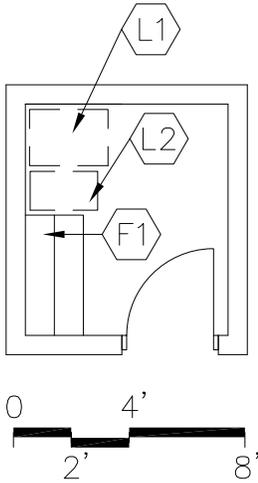
NOTES:

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

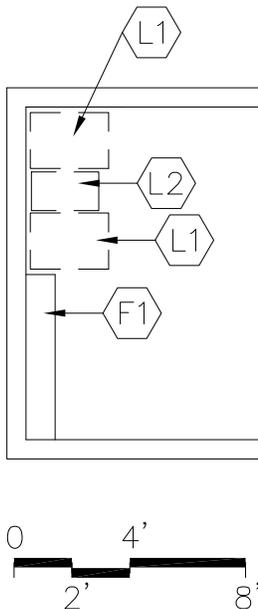
**VAULT/RECORDS STORAGE  
H-AD-8**

**CHAPTER 6: HIGH SCHOOL**

**85 SF**



**140 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

**CAPACITY:  
SIZE:**

N/A  
**85 - 200 SF**

**NOTES:**

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

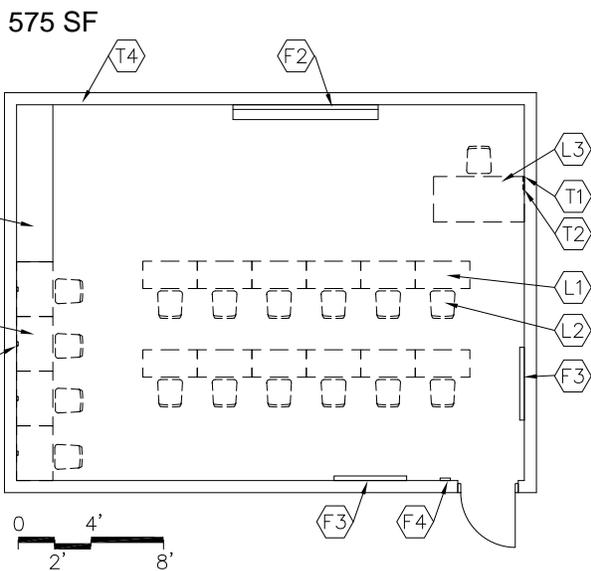
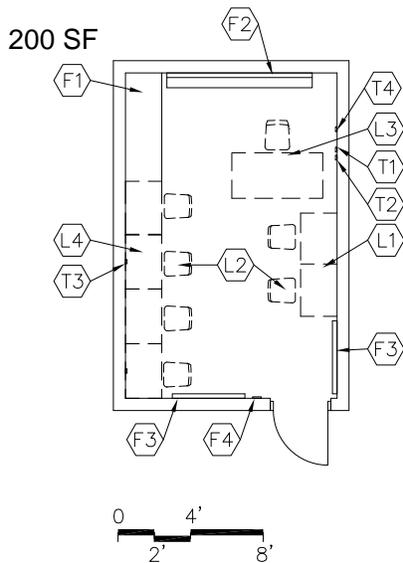
**VAULT/RECORDS STORAGE**  
**H-AD-8**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
<b>Rubber</b>	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	042000/099100	<u>HVAC:</u>	
painted gypsum wallboard	092116/099100	To be determined by Design Professional	
Rated 2-hour construction		<u>Electrical:</u>	
<u>LOOSE FURNISHINGS:</u>		Single level switching	262726
L1 File cabinet		Fluorescent lighting	265100
L2 Safe (loose or fixed)		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>	
		Wall, ceiling, and door construction to have a 2-hour fire rating	

NOTES:

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



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

**PROGRAM ACTIVITIES:**

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

**SPATIAL RELATIONSHIPS:**

- Near principal's office
- Near secretarial area

**ENVIRONMENTAL CONSIDERATIONS:**

- 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.

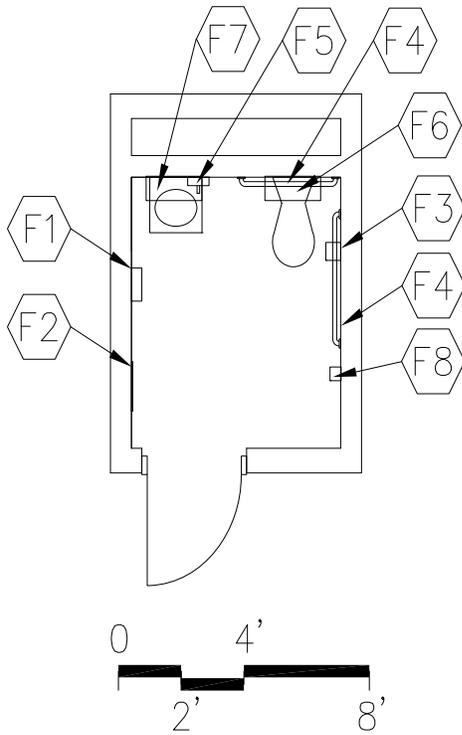
**IN-SCHOOL SUSPENSION  
H-AD-9**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet, <b>carpet tile</b> , ET, linoleum, sheet vinyl, or rubber	096816	F1 3'-4' of base cabinets (optional)	123550
	096500	F2 6'-8' of chalk/marker board	101100
	096516	F3 4'-8' of tack board	101100
	<b>096813</b>	F4 Pencil sharpener support	062000
<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	042000/092113	Supply/return air system	Div. 23
		Independent temperature control	230923
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
L1 Student carrels and/or desks		Single level switching	262726
L2 Student chairs		Fluorescent lighting	265100
L3 Teacher workstation and chair		Illumination level: See Table 8600-4	
L4 Computer workstation furniture		4 duplex receptacles	262726
Wastebasket		Double duplex receptacle adjacent to each data and video port	262726
Pencil sharpener		<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: **60 SF**

NOTES:

**RESTROOM  
H-AD-10**

CHAPTER 6: HIGH SCHOOL

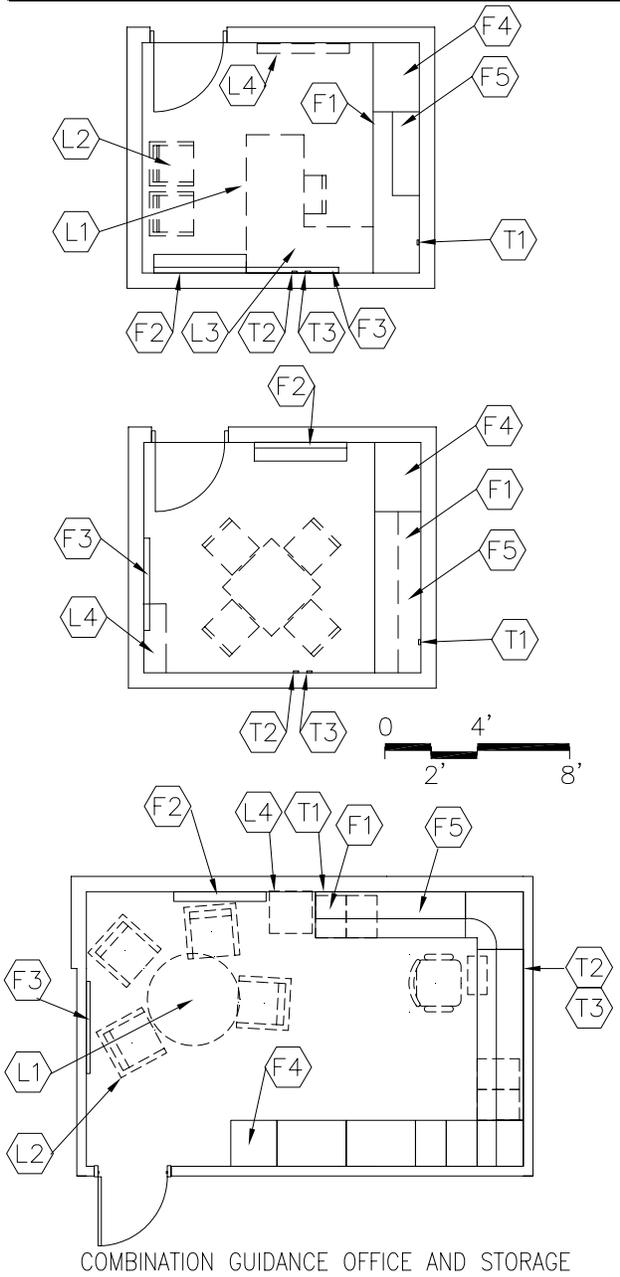
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
ET, linoleum, rubber, or sheet vinyl	096516	F1 Towel dispenser	102813
	096500	F2 24" x 60" mirror	102813
Optional: ceramic mosaic tile,	093000	F3 Toilet tissue holder	102813
porcelain 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.

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

**CHAPTER 6: HIGH SCHOOL**



COMBINATION GUIDANCE OFFICE AND STORAGE

**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>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>			
Carpet <i>or</i> Carpet Tile	096816 <b>096813</b>	<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>			
Suspended, acoustical	095113	<u>Fire Suppression:</u>	
<u>Walls:</u>		Fire suppression system	211000
Painted gypsum wallboard over metal studs	<b>092116/099100</b>	<u>Plumbing:</u>	
		N/A	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Desk or table, with chair		Supply/return air system	Div. 23
L2 Visitor chairs		Independent temperature control	230923
L3 Computer desk return		(coupled with similarly loaded adjacent spaces)	
L4 Bookcase (fixed or loose)		<u>Electrical:</u>	
Wastebasket		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	

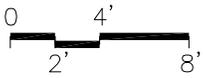
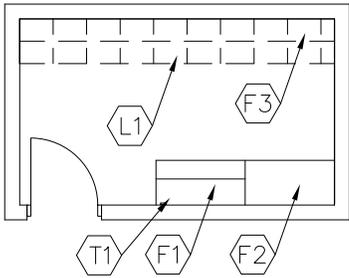
**NOTES:**

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.

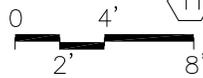
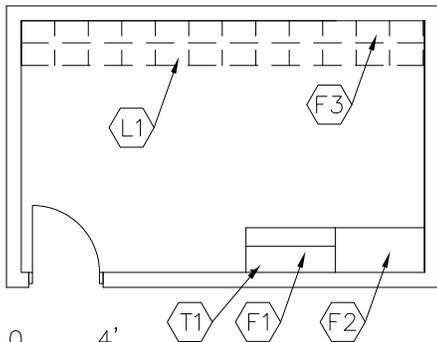
**GUIDANCE RECORDS/STORAGE  
H-AD-12**

**CHAPTER 6: HIGH SCHOOL**

100 SF



200 SF



**PROGRAM ACTIVITIES:**

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

**SPATIAL RELATIONSHIPS:**

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

**ENVIRONMENTAL CONSIDERATIONS:**

N/A

**CAPACITY:  
SIZE:**

N/A  
100 - 300 SF

**NOTES:**

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

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

CHAPTER 6: HIGH SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
<b>Rubber</b>	096500	F1 3'-6' of base and wall cabinets	123550
Base:		F2 3'-4' of tall storage cabinets	123550
Resilient base	096500	Option: mobile storage shelving	105626
Ceiling:		F3 4'-10' shelving (optional)	123550
Rated 2-hour construction	---	<u>Fire Suppression:</u>	
Walls:		Fire suppression system	211000
Painted gypsum wallboard		<u>Plumbing:</u>	
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	

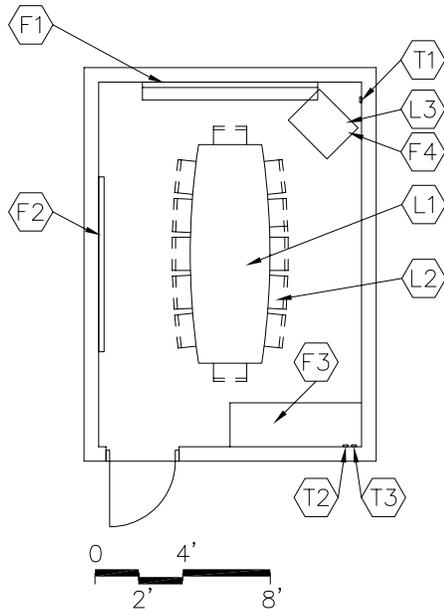
NOTES:

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

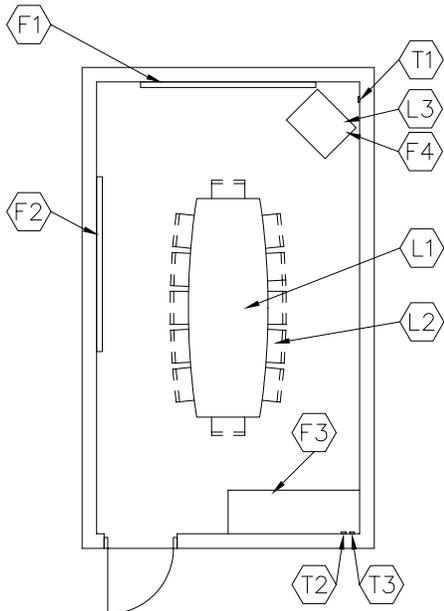
## GUIDANCE CONFERENCE ROOM H-AD-13

### CHAPTER 6: HIGH SCHOOL

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**

CHAPTER 6: HIGH SCHOOL

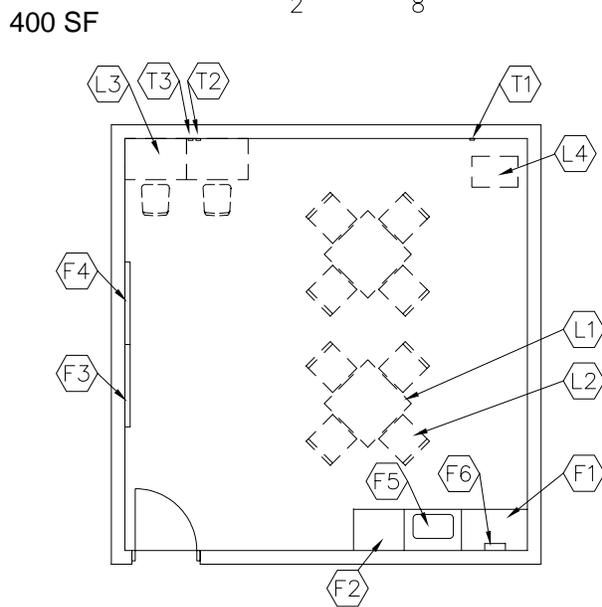
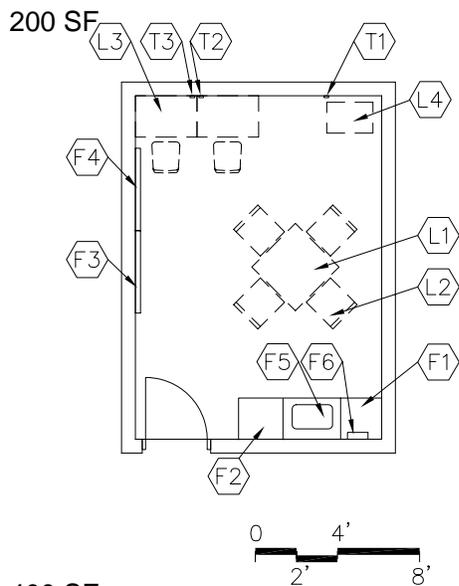
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Carpet <i>or Carpet Tile</i>	096816 <b>096813</b>	F1 6'-8' of chalk/marker board	101100
		F2 4'-8' of tack board	101100
Base:		F3 4'-6' of base cabinets	123550
Resilient base	096500	F4 Technology 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	<b>092116/099100</b>	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.

PARENT/VOLUNTEER ROOM  
H-AD-14

## CHAPTER 6: HIGH SCHOOL



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>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet <i>or</i> Carpet Tile	096816 <b>096813</b>	F1 About 3' of base cabinets	123550
		F2 2' of tall wardrobe or coat cabinet (optional)	123550
<u>Base:</u>		F3 4' of chalk/marker board (optional)	101100
Resilient base	096500	F4 4' of tack board or tackable wall surface	101100
<u>Ceiling:</u>		F5 3' sink base cabinet	123550
Suspended, acoustical	095113	F6 Towel dispenser	102813
<u>Walls:</u>		<u>Fire Suppression:</u>	
Painted gypsum wallboard over metal studs	<b>092116/099100</b>	Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Table		Sink	224000
L2 Chairs		Plumbing connections	224000/221116/221119
L3 Computer workstation furniture			
L4 Monitor cart		<u>HVAC:</u>	
Wastebasket		Supply/return air system	Div. 15
Pencil sharpener		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 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	

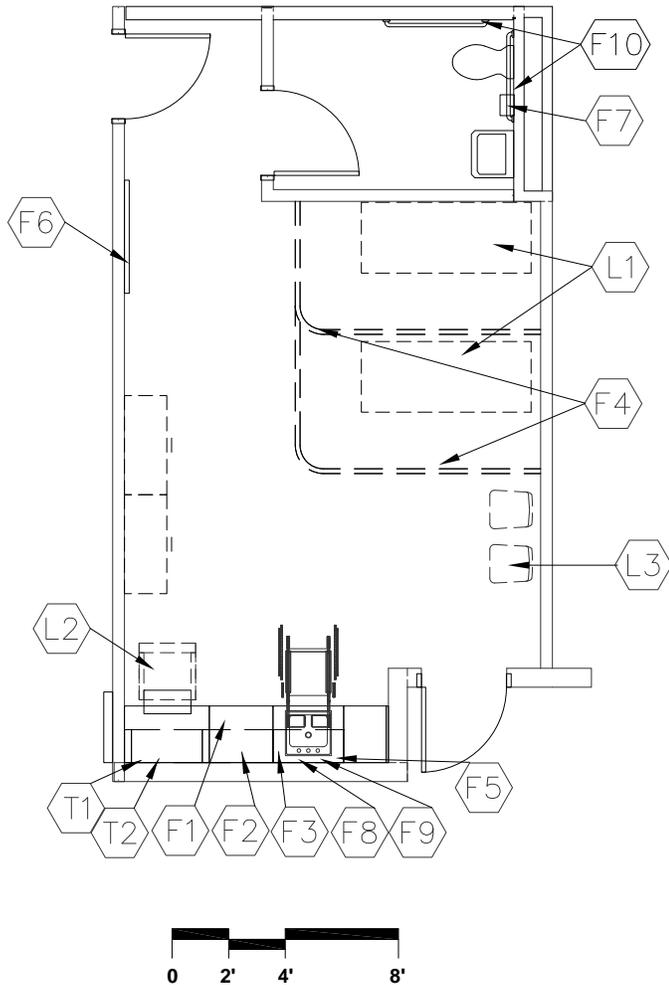
NOTES:

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

**HEALTH CLINIC (includes restroom)  
H-AD-15**

CHAPTER 6: HIGH SCHOOL

450 SF



**PROGRAM ACTIVITIES:**

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

**SPATIAL RELATIONSHIPS:**

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

**ENVIRONMENTAL CONSIDERATIONS:**

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

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

**NOTES:**

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

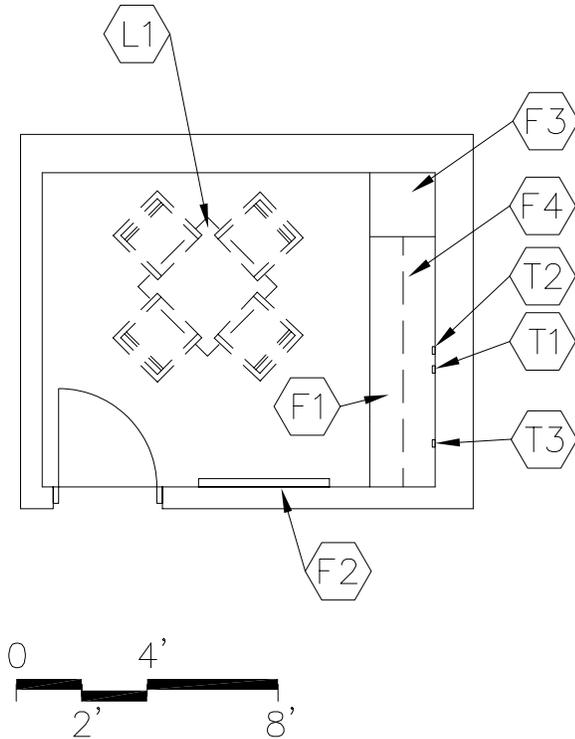
**HEALTH CLINIC (includes restroom)**  
**H-AD-15**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES</u> <sup>1</sup> :	Spec. Ref.#	<u>FEATURES</u> <sup>1</sup> :	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Linoleum, rubber, ET,	096516	F1 4'-9' of base cabinets	123550
sheet vinyl, or	096500	F2 3' sink base cabinet	123550
resinous flooring	096723	F3 4'-9' of wall cabinets, lockable	123550
		F4 Cubicle curtain and track	102123
<u>Base:</u>		F5 Towel dispenser	102813
Resilient base, resinous flooring,	096500	F6 4' of tack board	101100
or integral vinyl cover base	096730	F7 Sanitary napkin dispenser/disposal	102813
		F8 Soap dispenser	102813
<u>Ceiling:</u>		F9 24" x 60" mirror	102813
Suspended, acoustical	095113	F10 36" and 42" grab bars	102813
<u>Walls:</u>		<u>Fire Suppression:</u>	
Painted gypsum wallboard		Fire suppression system	211000
over metal studs	092116/099100		
		<u>Plumbing:</u>	
<u>LOOSE FURNISHINGS:</u>		<b>Wall-mounted water closet</b>	<b>224000</b>
L1 Cots		<b>Wall-mounted lavatory</b>	<b>224000</b>
L2 Desk and chair		Sink - with goose neck	224000
L3 Chairs		Plumbing connections	224000/221116/221119
Wastebasket			
		<u>HVAC:</u>	
<u>EQUIPMENT</u>		Supply/return air system	Div. 23
E1 Refrigerator with ice making capabilities		Independent temperature control	230923
		Exhaust directly to exterior	
		<u>Electrical:</u>	
<u>Miscellaneous:</u>		Single level switching with dimmer	262726
N/A		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		2 duplex receptacles	262726
		Double duplex receptacle adjacent to each data port	262726
		Receptacle for refrigerator	262726
		Emergency lighting	265100
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/273113
		T2 1 data port near workstation	271523
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111

**NOTES:**

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



APACITY:  
SIZE:

1 - 3 persons  
120 SF

**PROGRAM ACTIVITIES:**

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

**SPATIAL RELATIONSHIPS:**

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

**ENVIRONMENTAL CONSIDERATIONS:**

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

**NOTES:**

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

**ITINERANT PERSONNEL OFFICE  
H-AD-16**
**CHAPTER 6: HIGH SCHOOL**

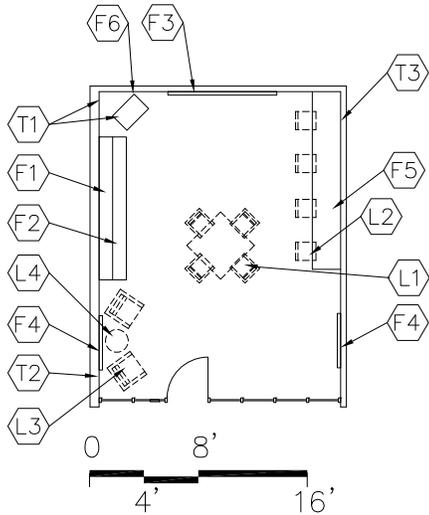
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>			
Carpet <i>or</i> Carpet Tile	096816 <b>096813</b>	<u>Fixed Items:</u> F1 Work surface with file drawers(optional)	123550
		F2 4' of tack board or tackable wall surface	101100
<u>Base:</u>			
Resilient base	096500	F3 2' of tall wardrobe (optional)	123550
		F4 Wall cabinets	123550
<u>Ceiling:</u>			
Suspended, acoustical	095113	<u>Fire Suppression:</u> Fire suppression system	211000
<u>Walls:</u>			
Painted gypsum wallboard over metal studs	<b>092116/099100</b>	<u>Plumbing:</u> N/A	
<u>LOOSE FURNISHINGS:</u>			
L1 Table and chairs		<u>HVAC:</u> 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:**

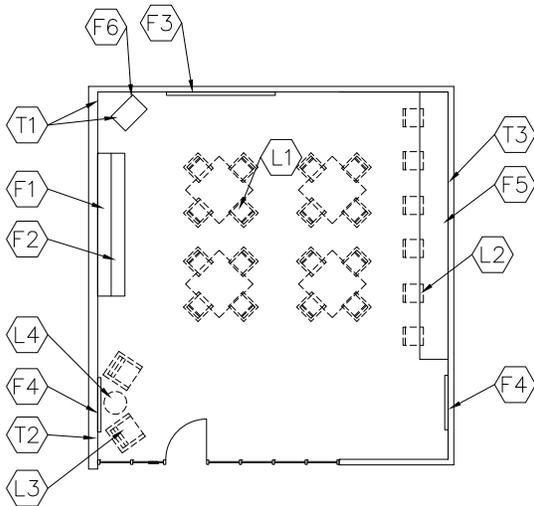
1. Finishes/Features: Refer to Chapter 9 for specification references. Optional: moveable cabinets
2. Fixed casework and loose furnishings can also be all fixed casework or all loose furnishings.

CHAPTER 6: HIGH SCHOOL

300 SF



700 SF



CAPACITY:  
SIZE:

6 - 16 persons  
300 - **715 SF**

**PROGRAM ACTIVITIES:**

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

**SPATIAL RELATIONSHIPS:**

- Close to secretarial area
- Close to guidance counselor's office

**ENVIRONMENTAL CONSIDERATIONS:**

- 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.

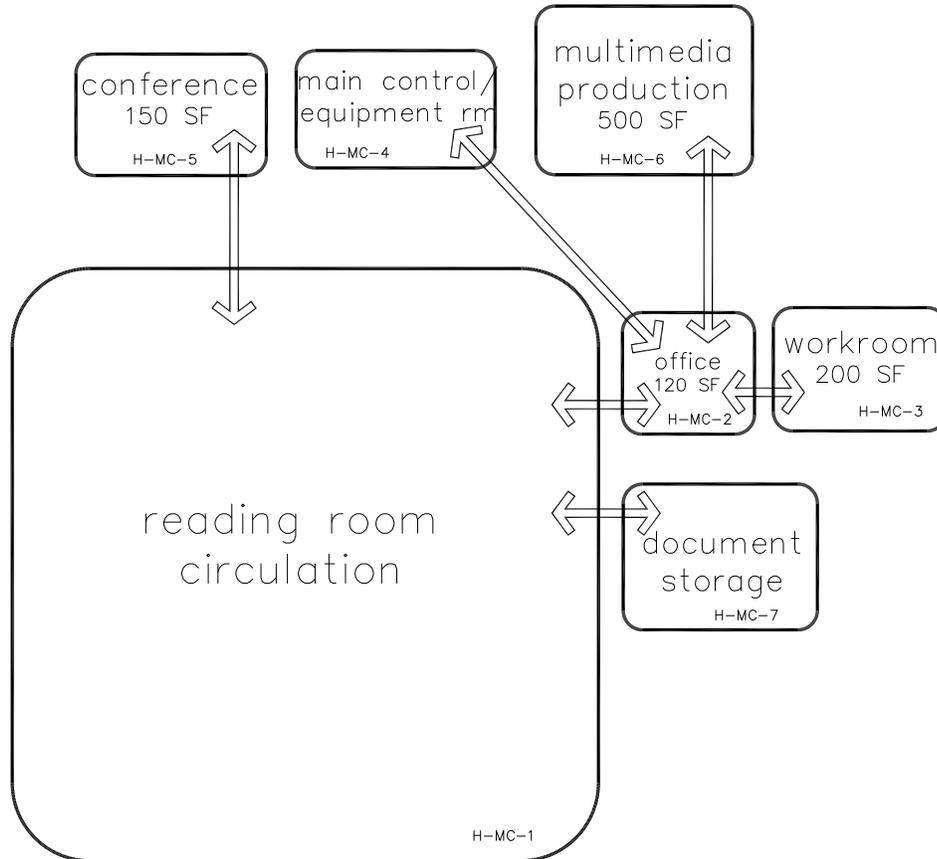
**CAREER CENTER  
H-AD-17**

## CHAPTER 6: HIGH SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Carpet <i>or</i> Carpet Tile	096816 <b>096813</b>	F1 8'-16' display cabinets	123550
Base:		F2 About 9' base cabinets	123550
Resilient	096500	F3 6'-8' of chalk/marker board (optional)	101100
Ceiling:		F4 6'-8' of tack board or tackable wall surface	101100
Suspended, acoustical	095113	F5 Workstation	123550
Walls:		F6 Technology support casework	123550
Painted concrete masonry units	<b>042000/099100</b>	<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.

**NOTE:**

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

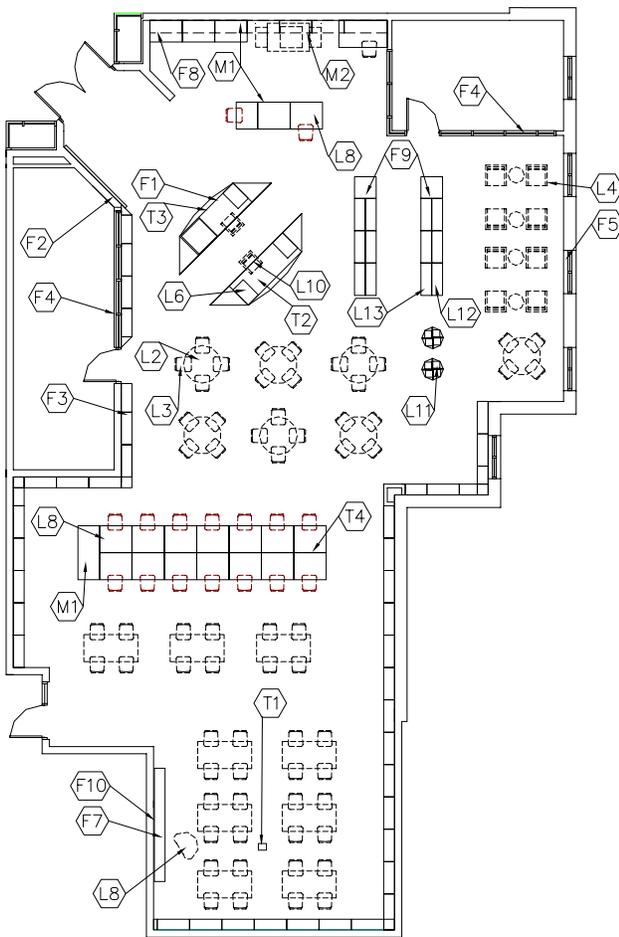
Following are the Media Center space plates:

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

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## READING ROOM/CIRCULATION H-MC-1

### CHAPTER 6: HIGH SCHOOL



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.

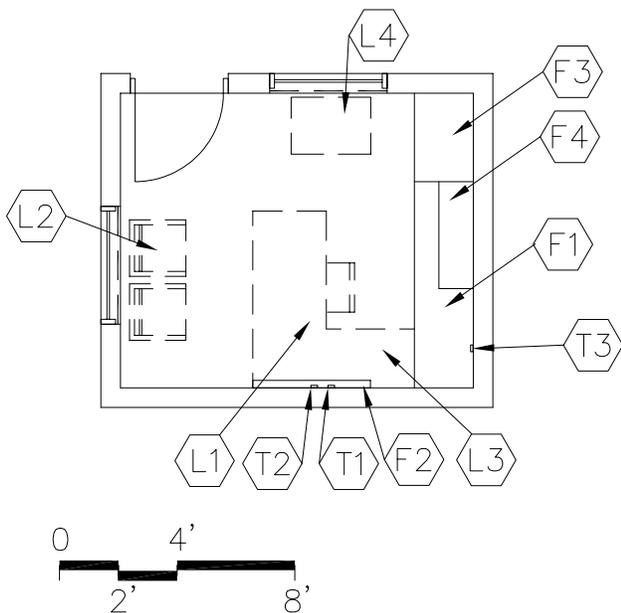
**READING ROOM/CIRCULATION  
H-MC-1**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES</u> <sup>1</sup> :	Spec. Ref.#	<u>FEATURES</u> <sup>1</sup> :	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816	F1 Circulation desk casework	123550
	096813	F2 6'-10' of tack board or tackable wall surface	101100
<u>Base:</u>		F3 Library book shelving ( <b>see notes</b> )	115123
Resilient base	096500	F4 Interior windows	081113/088000
		F5 Windows with integral blinds or shades	085113
<u>Ceiling:</u>		F6 Pencil sharpener support (optional)	062000
Suspended, acoustical	095113	F7 6'-10' of chalk/marker board	101100
		F8 Technology support casework	123550
<u>Walls:</u>		F9 Search station terminals	123550
Painted concrete masonry units	042000/099100	F10 Projection screen (optional)	115213
Acoustical wall treatment	098000	Roller window shades (optional)	122413
<u>LOOSE FURNISHINGS</u> <sup>2</sup> :		<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.
4. **Fixed casework and loose furnishings can be interchangeable.**
5. **Up to 20% of book shelving can be moveable.**



CAPACITY: 1 - 3 persons  
 SIZE: 120 SF

## PROGRAM ACTIVITIES:

- Media specialist to conduct duties

## SPATIAL RELATIONSHIPS:

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

## ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

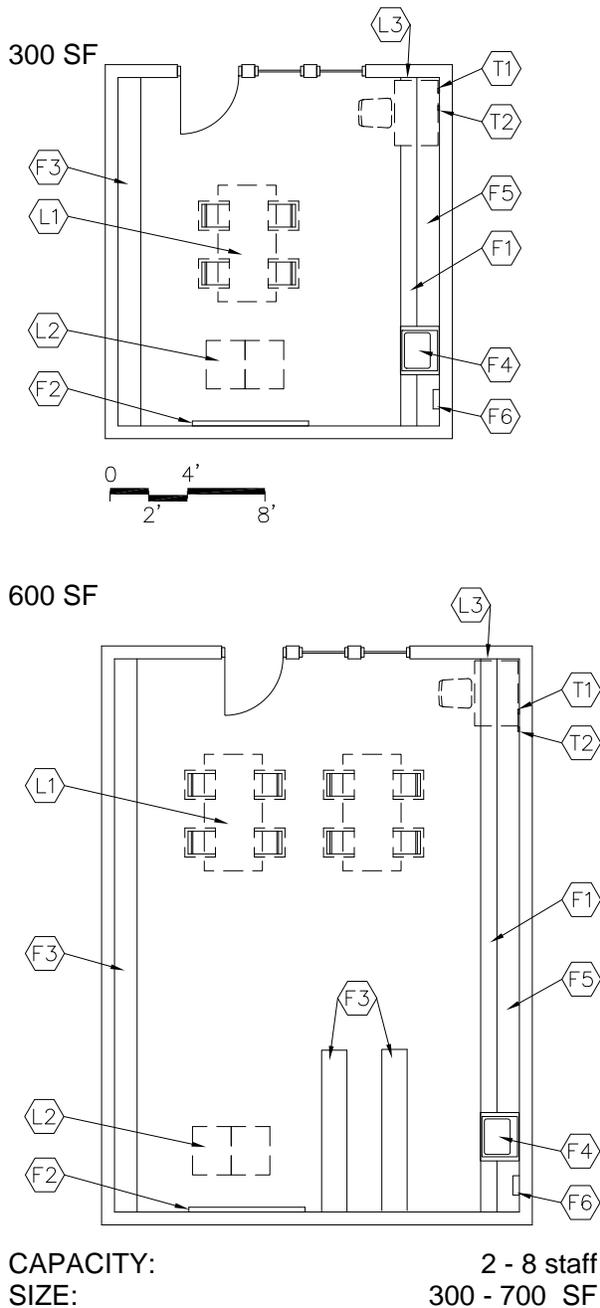
1. Loose furnishings shown represent one of many possible arrangements.

**MEDIA SPECIALIST OFFICE  
H-MC-2**
**CHAPTER 6: HIGH SCHOOL**

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>			
Carpet <i>or Carpet Tile</i>	096816 <b>096813</b>	<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	<b>042000/099100</b>	<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		Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
L4 File cabinet		<u>Electrical:</u> Single level switching	262726
Wastebasket		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.

**WORKROOM/STORAGE  
H-MC-3**
**CHAPTER 6: HIGH SCHOOL**

**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

**NOTES:**

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

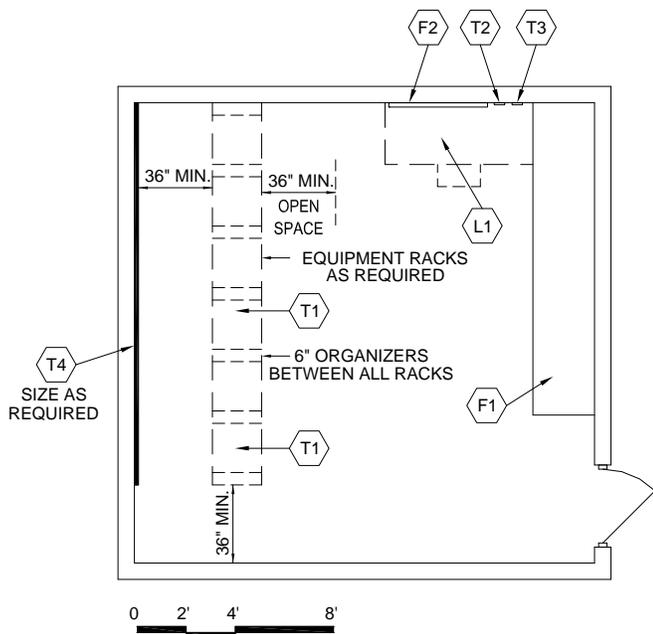
**WORKROOM/STORAGE  
H-MC-3**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES</u> <sup>1</sup> :	Spec. Ref.#	<u>FEATURES</u> <sup>1</sup> :	Spec. Ref.#
Flooring:		<u>Fixed Items</u> <sup>2</sup> :	
<b>Rubber</b>	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
		F4 3' sink base cabinet	123550
Ceiling:		F5 13'-28' of wall cabinets	123550
Suspended, acoustical	095113	F6 Towel dispenser	102813
Walls:		<u>Fire Suppression:</u>	
Painted concrete masonry units		Fire suppression system	211000
	042000/099100		
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Table and chairs		Sink	224000
L2 Book trucks		Plumbing connections	224000/221116/221119
L3 Computer workstation			
Wastebasket		<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.



CAPACITY: N/A  
 SIZE: 300 - 400 SF

## 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

NOTES:

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

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

CHAPTER 6: HIGH SCHOOL

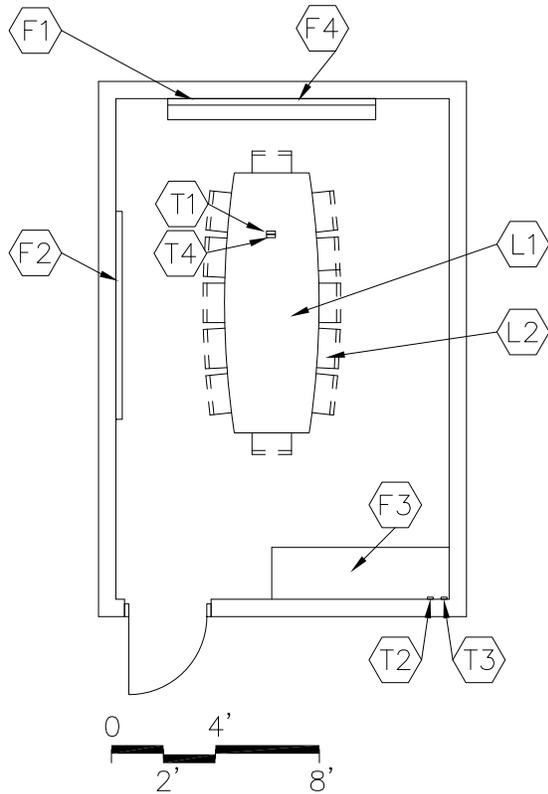
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
ET or sheet vinyl	096500	F1 8'-16' of open shelving, depth may vary (fixed or loose)	123550
Base:		F2 4' of tack board (optional)	101100
Resilient base	096500	<u>Fire Suppression:</u>	
Ceiling:		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.

**CONFERENCE ROOM  
H-MC-5**

**CHAPTER 6: HIGH SCHOOL**



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-5**

CHAPTER 6: HIGH SCHOOL

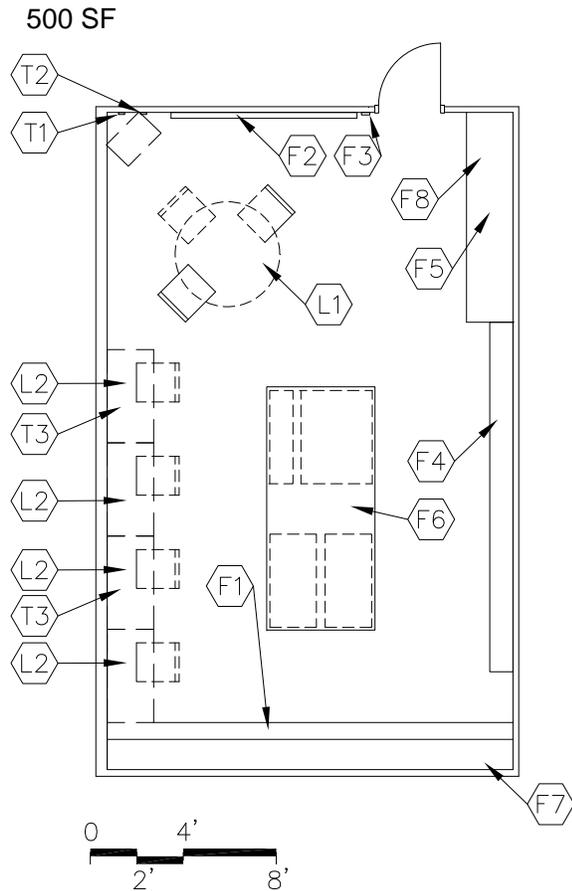
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items<sup>2</sup>:</u>	
Carpet or Carpet Tile	096816	F1 8'-10' of chalk/marker board	101100
	096813	F2 6'-8' of tack board	101100
<u>Base:</u>		F3 4'-6' of base cabinets (optional) (fixed or mobile)	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.

**MULTIMEDIA PRODUCTION ROOM**  
**H-MC-6**

CHAPTER 6: HIGH SCHOOL



**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

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

**NOTES:**

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

**MULTIMEDIA PRODUCTION ROOM  
H-MC-6**

CHAPTER 6: HIGH SCHOOL

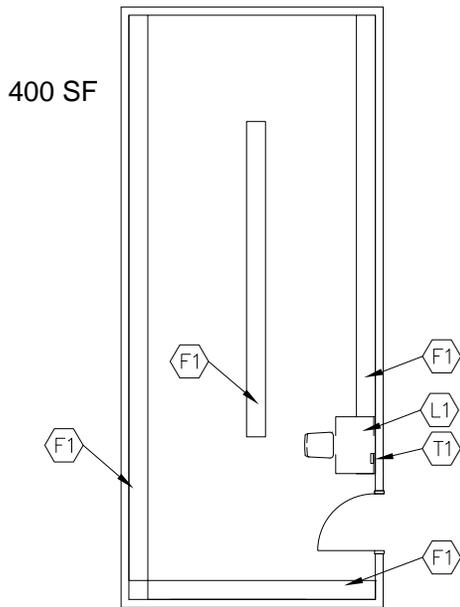
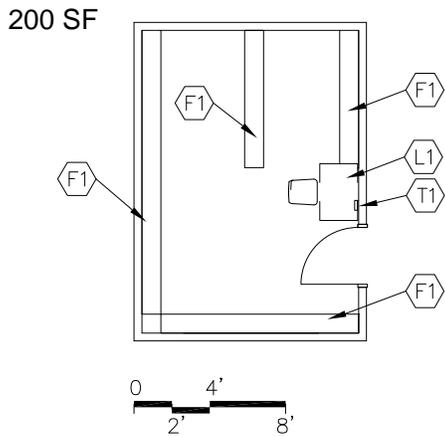
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items<sup>2</sup>:</u>	
Linoleum,	096500	F1 6'-18' of base cabinets	
ET, sheet vinyl, or rubber	096516	with different types of storage	123550
<u>Base:</u>		F2 4'-8' of tack board	101100
Resilient 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		F7 6'-18' of wall cabinets	123550
	042000/099100	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.

**DOCUMENT STORAGE  
H-MC-7**

**CHAPTER 6: HIGH SCHOOL**



CAPACITY: N/A  
 SIZE: 200 - 500 SF

**PROGRAM ACTIVITIES:**

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

**SPATIAL RELATIONSHIPS:**

- Near reading room/circulation

**ENVIRONMENTAL CONSIDERATIONS:**

N/A

**NOTES:**

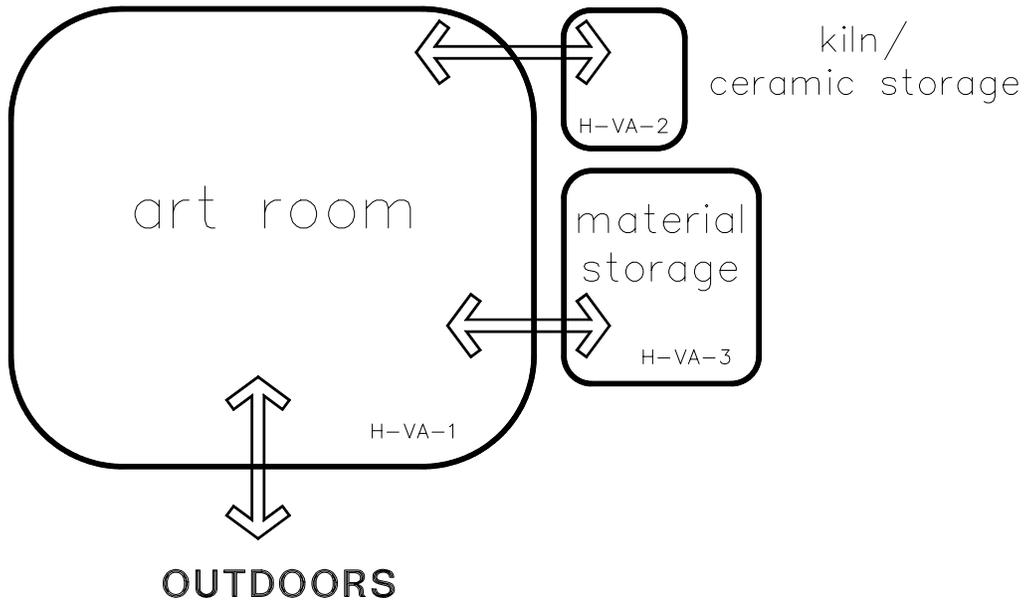
1. Loose furnishings shown represent one of many possible arrangements.

**DOCUMENT STORAGE  
H-MC-7**
**CHAPTER 6: HIGH SCHOOL**

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

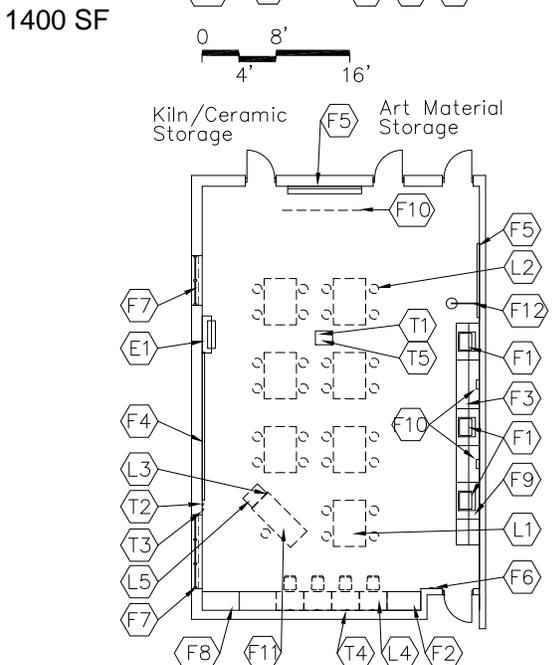
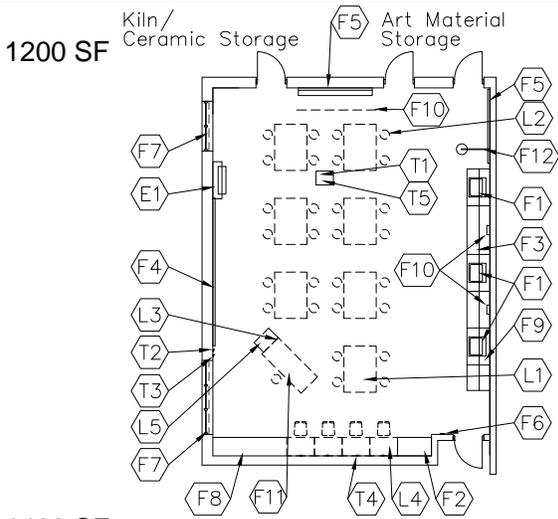
This is an example of how the visual arts spaces in a high school could be arranged. This is meant only to demonstrate the relationships between various areas of the building.

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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**CHAPTER 6: HIGH SCHOOL**



**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**

## CHAPTER 6: HIGH SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Linoleum,	096516	F1 3'-4' sink base cabinet with wall cabinets	
ET, sheet vinyl, rubber,	096500	above or wash fountains	123550
polished concrete finishing,	033510	F2 3' of tall wardrobe with file drawers	123550
or colored concrete finishing	033519	F3 10'-12' of base and wall cabinets	123550
		F4 10'-20' of tack board	101100
		F5 12'-16' of chalk/marker board	101100
<u>Base:</u>		F6 Pencil sharpener support	062000
Resilient base	096500	F7 Windows with integral blinds	085113
		F8 6'-10' of tall storage cabinets	123550
<u>Ceiling:</u>		F9 Towel dispenser	102813
Suspended, acoustical	085113	F10 Projection screen (optional)	115213
		F11 Technology support casework	123550
<u>Walls:</u>		F12 Emergency eyewash	224000
Painted concrete masonry units	042000/099100	<u>Fire Suppression:</u>	
		Fire suppression system	211000
		<u>Plumbing:</u>	
<u>LOOSE FURNISHINGS:</u>		Sinks with solids interceptor	224000
L1 Student work tables		Plumbing connections	224000/221116/221119
L2 Student chairs or stools		Emergency eyewash connections	224000
L3 Teacher desk and chair and teacher computer support		<u>HVAC:</u>	
L4 Computer workstation furniture		Supply/return air system	Div. 23
L5 Desk height file cabinet		Independent temperature control	230923
Wastebasket		Manually controlled general exhaust	Div. 23
Pencil sharpener		<u>Electrical:</u>	
		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>EQUIPMENT</u>		<u>Communications:</u>	
E1 Drying rack		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	

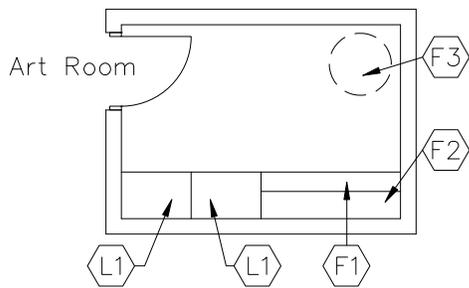
NOTES:

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.

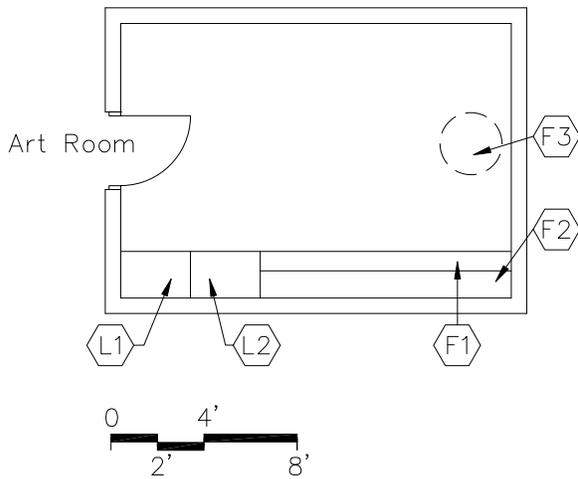
**KILN/CERAMIC STORAGE  
H-VA-2**

**CHAPTER 6: HIGH SCHOOL**

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**

CHAPTER 6: HIGH SCHOOL

	Spec. Ref.#		Spec. Ref.#
<b><u>FINISHES</u><sup>1</sup>:</b>		<b><u>FEATURES</u><sup>1</sup>:</b>	
Flooring:		<b><u>Fixed Items:</u></b>	
<b><i>Polished concrete finishing, or colored concrete finishing</i></b>	<b>033510 033519</b>	F1 4'-6' of base cabinets	123550
		F2 4'-6' of wall cabinets	123550
		F3 Kiln	119200
Base:		<b><u>Fire Suppression:</u></b>	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<b><u>Plumbing:</u></b>	
Suspended, acoustical	095113	N/A	
Walls:		<b><u>HVAC:</u></b>	
Painted concrete masonry units	042000/099100	Temperature controlled exhaust	Div. 23
		Ventilation for kiln	Div. 23
<b><u>LOOSE FURNISHINGS:</u></b>		<b><u>Electrical:</u></b>	
L1 Tall dry storage units		Single level switching	262726
L2 Tall damp storage units		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
L1 and L2 could be fixed casework.		1 duplex receptacle	262726
		Electrical connection for kiln	262726
		<b><u>Communications:</u></b>	
		Central sound system	275123
		<b><u>Electronic Safety and Security:</u></b>	
		Life safety devices per code	283111
		<b><u>Miscellaneous:</u></b>	
		N/A	

**NOTES:**

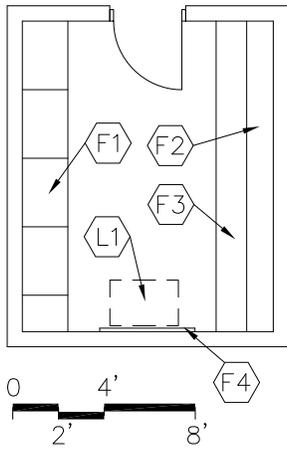
1. Finishes/Features: Refer to Chapter 9 for specification references.

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

**CHAPTER 6: HIGH SCHOOL**

200 SF

Art Room



**PROGRAM ACTIVITIES:**

- Storage of art supplies and materials

**SPATIAL RELATIONSHIPS:**

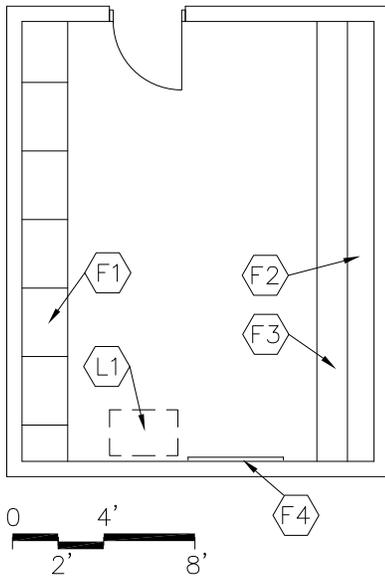
- Adjacent to art room

**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:**

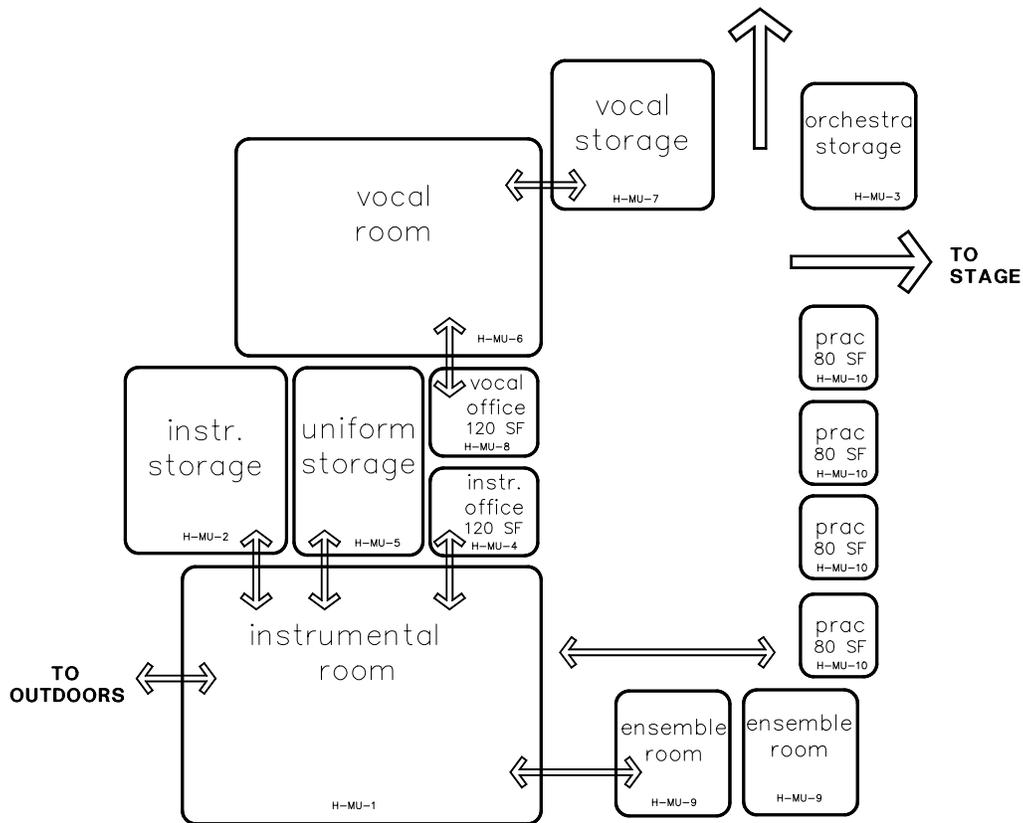
**ART MATERIAL STORAGE**  
**H-VA-3**

CHAPTER 6: HIGH SCHOOL

	Spec. Ref.#		Spec. Ref.#
<b><u>FINISHES<sup>1</sup>:</u></b>		<b><u>FEATURES<sup>1</sup>:</u></b>	
<b>Flooring:</b>		<b><u>Fixed Items:</u></b>	
ET, sheet vinyl,	096500	F1 12'-20' tall storage cabinets	123550
polished concrete finishing,	033510	F2 12'-20' base cabinets	123550
or colored concrete finishing	033519	(depth for school's need)	
<b>Base:</b>		F3 12'-20' wall cabinets	123550
Resilient base	096500	F4 Tackboard (optional)	101100
<b>Ceiling:</b>		<b><u>Fire Suppression:</u></b>	
Suspended, acoustical	095113	Fire suppression system	211000
<b>Walls:</b>		<b><u>Plumbing:</u></b>	
Painted concrete masonry unit	042000/099100	N/A	
<b><u>LOOSE FURNISHINGS:</u></b>		<b><u>HVAC:</u></b>	
L1 Mobile materials cart		Exhaust air system	Div. 23
		<b><u>Electrical:</u></b>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		Duplex receptacle above base cabinet	262726
		<b><u>Communications:</u></b>	
		N/A	
		<b><u>Electronic Safety and Security:</u></b>	
		N/A	
		<b><u>Miscellaneous:</u></b>	
		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:

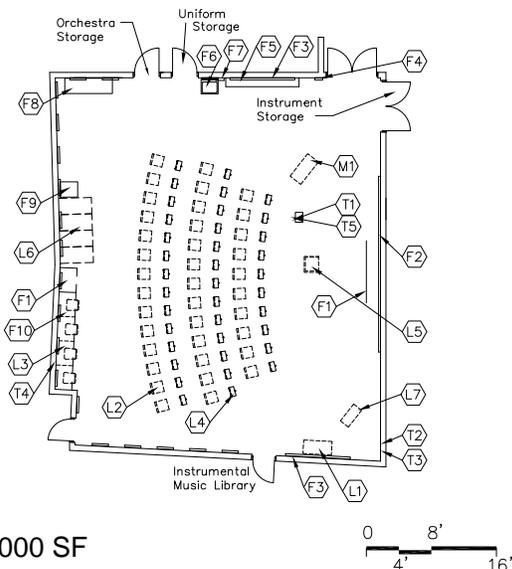
- H-MU-1 Instrumental Room
- H-MU-2 Instrument Storage
- H-MU-3 Orchestra Storage
- H-MU-4 Instrumental Music Library
- H-MU-5 Uniform Storage
- H-MU-6 Vocal Room
- H-MU-7 Vocal Storage
- H-MU-8 Vocal Music Library
- H-MU-9 Ensemble Room
- H-MU-10 Practice Room

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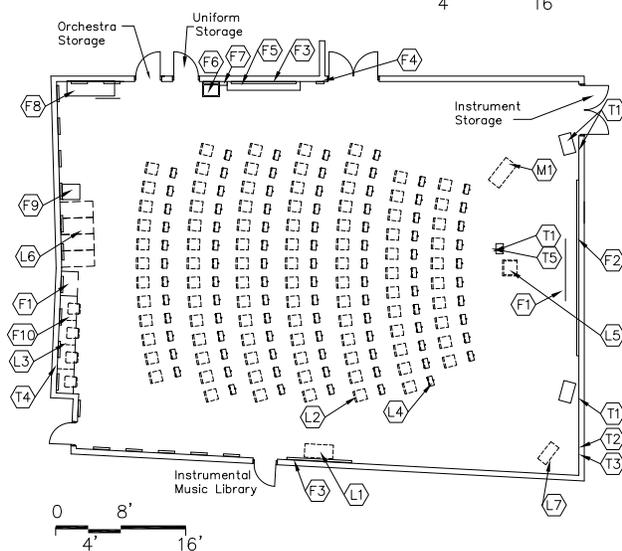
**INSTRUMENTAL ROOM  
H-MU-1**

**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**

## CHAPTER 6: HIGH SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet, <b>carpet tile</b> ,	096500	F1 Projection screen (optional)	115213
linoleum, rubber, ET,	096516	F2 8'-16' of chalk/marker board	
or sheet vinyl	096816	with staff lines	101100
	<b>096813</b>	F3 4'-16' of tack board	101100
<u>Base:</u>		F4 Pencil sharpener support	062000
Resilient	096500	F5 4'-9' of bookcases (see note 3)	123550
<u>Ceiling:</u>		F6 3' sink base cabinet	123550
Suspended, acoustical	095113	F7 Towel dispenser	102813
<u>Walls:</u>		F8 Wardrobe (optional in storage room)	
Painted concrete masonry units		F9 Stereo cabinet (optional)	
	042000/099100	F10 Technology support casework	123550
Acoustical wall treatment		<u>Fire Suppression:</u>	
(varies with geometry of room)	098000	Fire suppression system	211000
absorptive 25%, reflective 25%,		<u>Plumbing:</u>	
diffusive 50%		Sink, 10" deep	224000
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Mobile sheet music cabinet		Supply/return air system	Div. 23
L2 Music chairs and caddies		Independent temperature control	230923
L3 Computer workstation furniture		<u>Electrical:</u>	
L4 Music stands		Fluorescent lighting:	265100
L5 Conducting podium		illumination level: see table 8600-4	
L6 Mobile percussion instrument storage		Multilevel switching	262726
cabinet		6 duplex receptacles	262726
L7 Teacher workstation		Double duplex receptacle adjacent to	
Wastebasket		each data and video port	262726
Pencil sharpener		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	

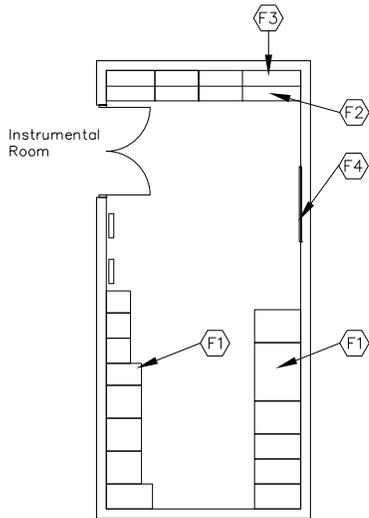
**NOTES:**

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Sink could be in storage room.
3. For small population schools, provide additional bookcases or cabinets in lieu of H-MU-3 music library.

**INSTRUMENT STORAGE  
H-MU-2**

CHAPTER 6: HIGH SCHOOL

400 SF



**PROGRAM ACTIVITIES:**

- Storage of band instruments

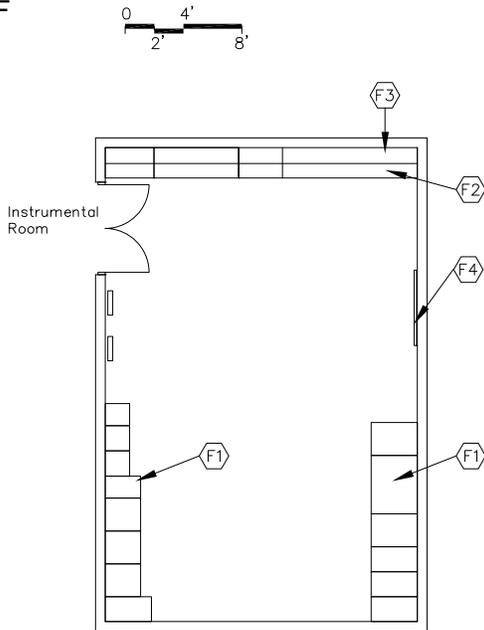
**SPATIAL RELATIONSHIPS:**

- 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**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES</u> <sup>1</sup> :	Spec. Ref.#	<u>FEATURES:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items</u> <sup>2</sup> :	
<b>Rubber</b>	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	

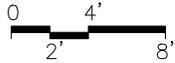
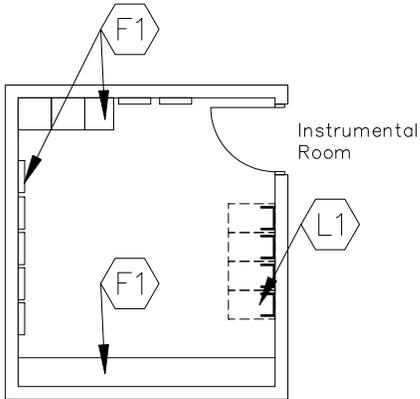
NOTES:

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

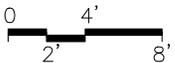
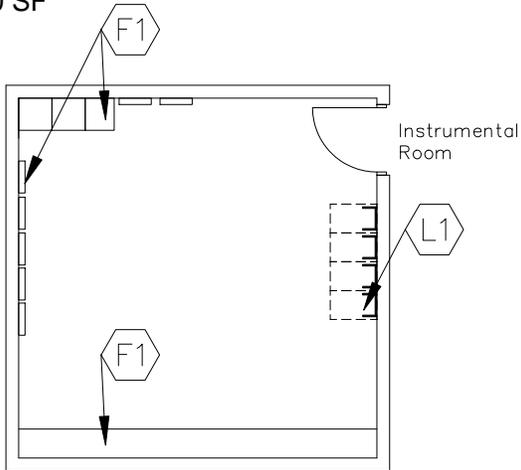
**ORCHESTRA STORAGE  
H-MU-3**

CHAPTER 6: HIGH SCHOOL

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**

CHAPTER 6: HIGH SCHOOL

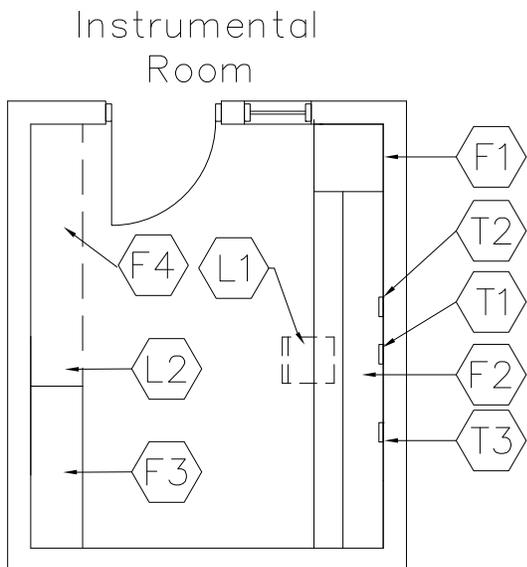
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
<b>Rubber</b>	096500	F1 Miscellaneous instrument storage Cabinets and racks	123550
Base:		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Suspended, 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.

**INSTRUMENTAL MUSIC LIBRARY  
H-MU-4**

CHAPTER 6: HIGH SCHOOL



**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**

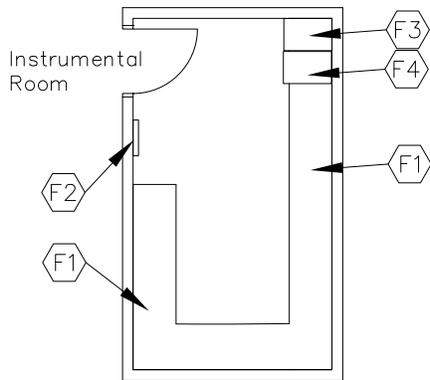
CHAPTER 6: HIGH SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet, <b>carpet tile</b>	096816 <b>096813</b>	F1 2' tall wardrobe	123550
		F2 Work surface with file drawers	123550
<u>Base:</u>		F3 2'-4' tall storage cabinet (optional)	123550
Resilient base	096500	F4 Shelving or mobile music storage shelving	123550 105626
<u>Ceiling:</u>		F5 4' of tack board (optional)	101100
Suspended, acoustical	095113		
<u>Walls:</u>		<u>Fire Suppression:</u>	
Painted gypsum wallboard over metal studs	092116/099100	Fire suppression system	211000
		<u>Plumbing:</u>	
		N/A	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Chair		Supply/return air system	Div. 23
L2 Sheet music storage 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
		<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



**PROGRAM ACTIVITIES:**

- Storage of instrumental uniforms

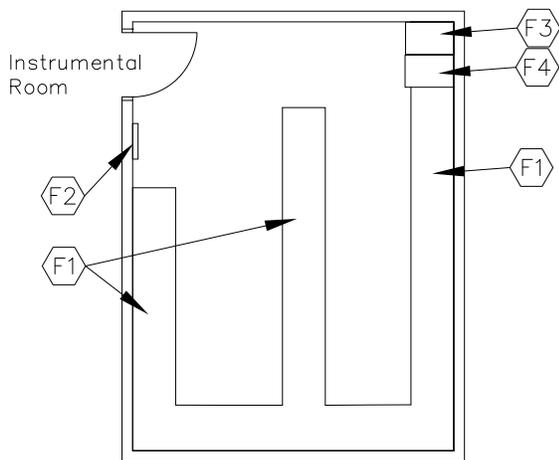
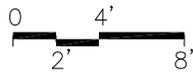
**SPATIAL RELATIONSHIPS:**

- Adjacent to instrumental room

**ENVIRONMENTAL CONSIDERATIONS:**

N/A

300 SF



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

**NOTES:**

**UNIFORM STORAGE  
H-MU-5**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES</u> <sup>1</sup> :	Spec. Ref.#	<u>FEATURES</u> :	Spec. Ref.#
Flooring:		<u>Fixed Items</u> <sup>2</sup> :	
<b>Rubber</b>	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	

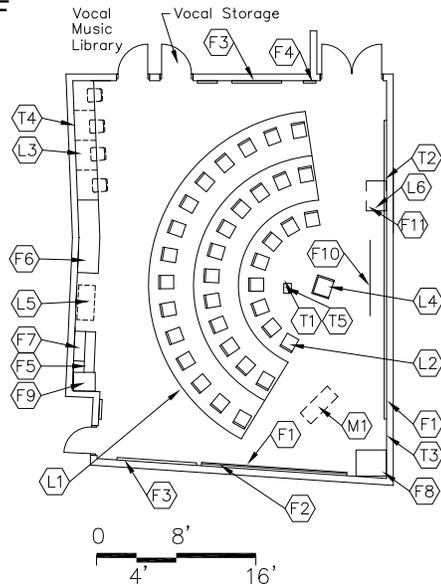
NOTES:

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

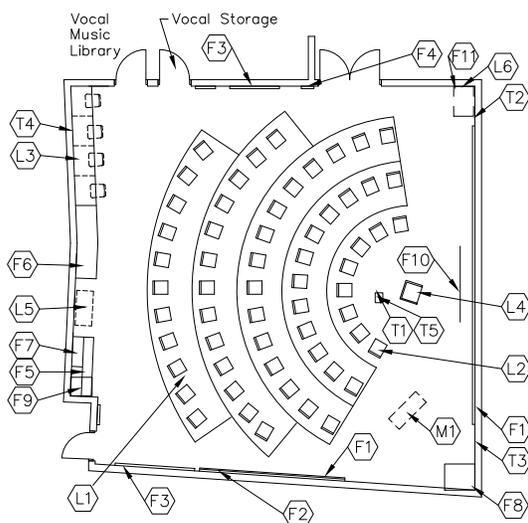
## VOCAL ROOM H-MU-6

### CHAPTER 6: HIGH SCHOOL

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**

## CHAPTER 6: HIGH SCHOOL

	Spec. Ref.#	FEATURES <sup>1</sup> : Fixed Items:	Spec. Ref.#
<b>FINISHES<sup>1</sup>:</b>			
<b>Flooring:</b>			
Carpet, <b>carpet tile</b>	096816	F1 5'-6' high mirror mounted 12" above floor	088300
Optional: ET, sheet vinyl	096500	F2 8'-16' of chalk/marker board with staff lines (optional)	101100
linoleum, or rubber	096516 <b>096813</b>	F3 8'-16' of tack board	101100
		F4 Pencil sharpener support	062000
		F5 4'-6' of base cabinets (optional)	123550
		F6 3'-6' of tall storage cabinet	123550
		F7 4'-6' of wall cabinets (optional)	123550
		F8 Stereo cabinet (optional)	123550
		F9 3' of tall wardrobe (optional)	123550
		F10 Projection screen (optional)	115213
		F11 Technology support casework	123550
		<b>Fire Suppression:</b>	
		Fire suppression system	211000
		<b>Plumbing:</b>	
		N/A	
		<b>HVAC:</b>	
		Supply/return air system	Div. 23
		Independent temperature control	230923
		<b>Electrical:</b>	
		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
		<b>Communications:</b>	
		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
		<b>Electronic Safety and Security:</b>	
		Life safety devices per code	283111
		<b>Miscellaneous:</b>	
		Gasketing on doors or sound doors	
		The following item is to be funded by the owner:	
		M1 Piano & electronic keyboard(s)	

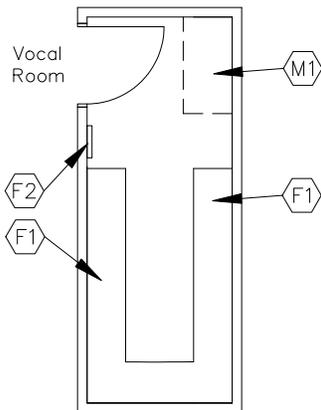
**NOTES:**

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.

**VOCAL STORAGE  
H-MU-7**

CHAPTER 6: HIGH SCHOOL

150 SF



**PROGRAM ACTIVITIES:**

- Secure storage of choir costumes, tuxedos, and risers

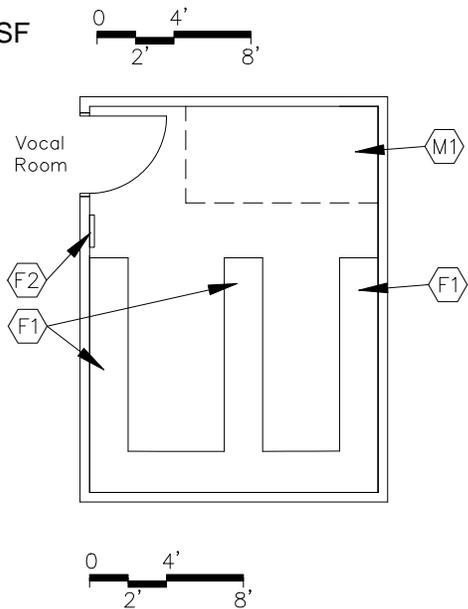
**SPATIAL RELATIONSHIPS:**

- 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:

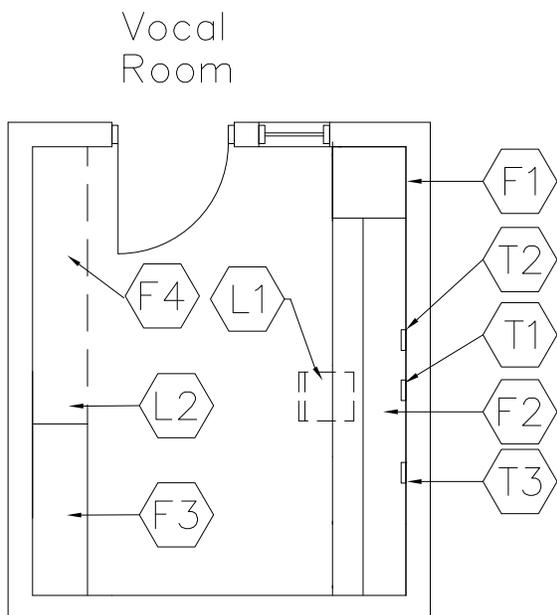
**VOCAL STORAGE  
H-MU-7**

CHAPTER 6: HIGH SCHOOL

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES</u> <sup>1</sup> :		<u>FEATURES</u> :	
Flooring:		<u>Fixed Items</u> <sup>2</sup> :	
<b>Rubber</b>	096500	F1 20'-40' of high robe storage cabinets	123550
Base:		F2 20" x 60" mirror (optional)	102813
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	
N/A		Supplemental heating 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>	
		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**
**CHAPTER 6: HIGH SCHOOL**

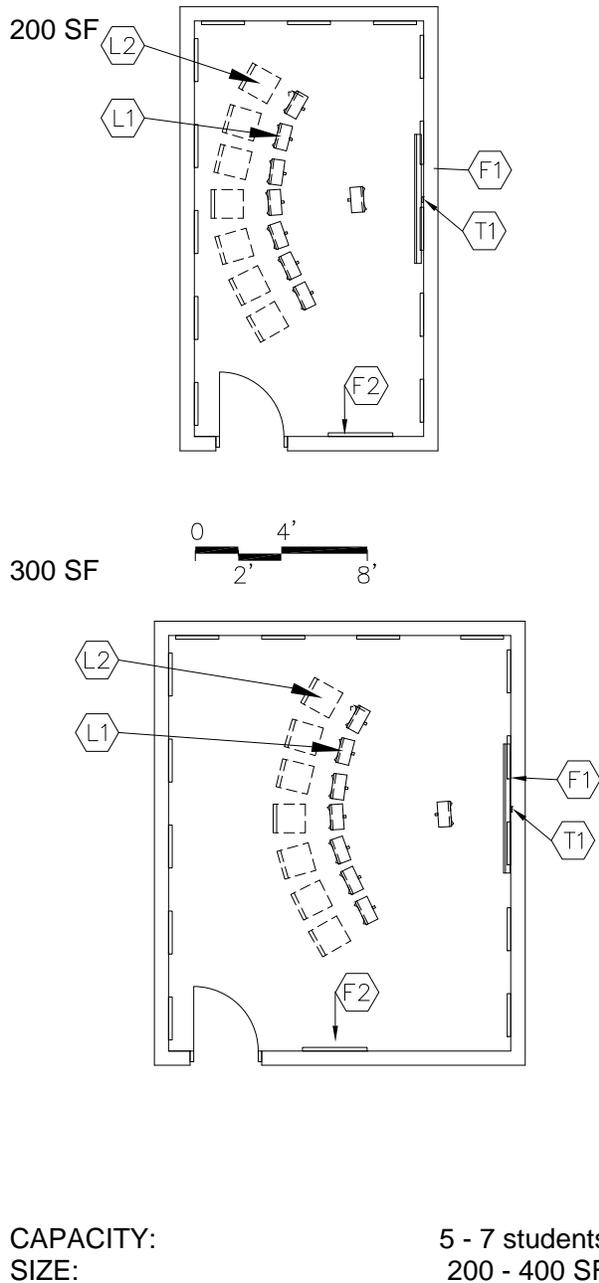
	Spec. Ref.#		Spec. Ref.#
<u>FINISHES<sup>1</sup>:</u>		<u>FEATURES<sup>1</sup>:</u>	
Flooring:		<u>Fixed Items:</u>	
Carpet, <b>carpet tile</b>	096816 <b>096813</b>	F1 2' tall wardrobe	123550
Base:		F2 Work surface with file drawers	123550
Resilient base	096500	F3 2'-4' tall storage cabinet	123550
Ceiling:		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.

**ENSEMBLE ROOM  
H-MU-9**

**CHAPTER 6: HIGH SCHOOL**



**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.

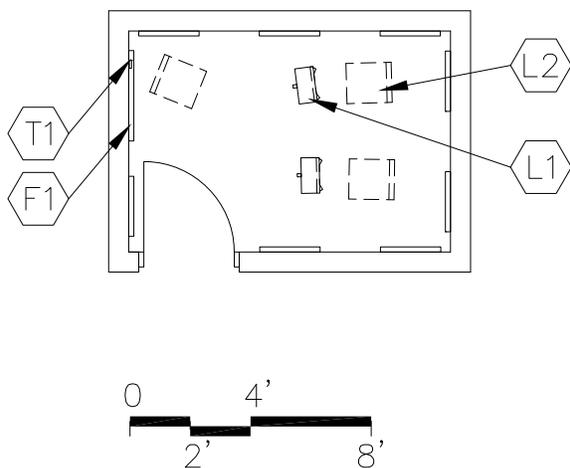
**ENSEMBLE ROOM  
H-MU-9**

## CHAPTER 6: HIGH SCHOOL

	Spec. Ref.#		Spec. Ref.#
<b><u>FINISHES</u><sup>1</sup>:</b>		<b><u>FEATURES:</u></b>	
Flooring:		<b><u>Fixed Items:</u></b>	
Carpet, <i>carpet tile</i>	096816 <b>096813</b>	F1 4'-6' of marker board (optional)	101100
Base:		F2 4' of tack board (optional)	101100
Resilient base	096500	<b><u>Fire Suppression:</u></b>	
Ceiling:		Fire suppression system	211000
Suspended, acoustical	095113	<b><u>Plumbing:</u></b>	
absorptive 25%, reflective 25%, diffusive 50%		N/A	
Walls:		<b><u>HVAC:</u></b>	
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
<b><u>LOOSE FURNISHINGS:</u></b>		<b><u>Electrical:</u></b>	
L1 Music stands		Fluorescent lighting:	265100
L2 Music chairs		Illumination level: See Table 8600-4	
		Single level switching	262726
		3 duplex receptacles	262726
		<b><u>Communications:</u></b>	
		Clock	275313
		Central sound system	275123
		T1 1 data port	271513
		<b><u>Electronic Safety and Security:</u></b>	
		Life safety devices per code	283111
		<b><u>Miscellaneous:</u></b>	
		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:**

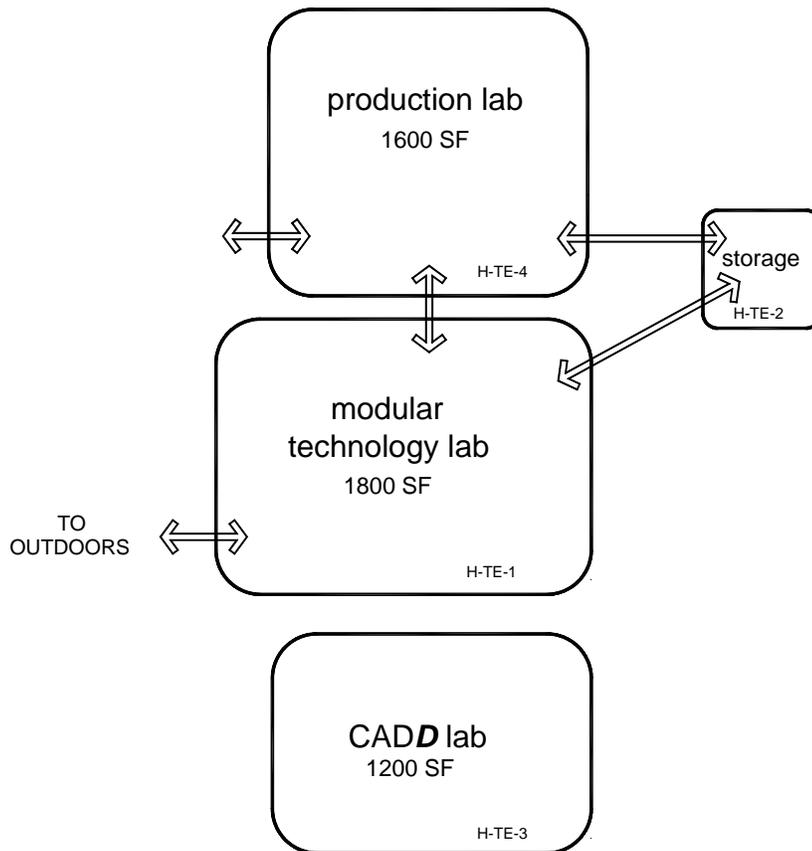
1. Loose furnishings shown represent one of many possible arrangements.

**PRACTICE ROOM  
H-MU-10**
**CHAPTER 6: HIGH SCHOOL**

<u>FINISHES</u> <sup>1</sup> :	Spec. Ref.#	<u>FEATURES</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Carpet, <i>carpet tile</i>	096816 <b>096813</b>	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.

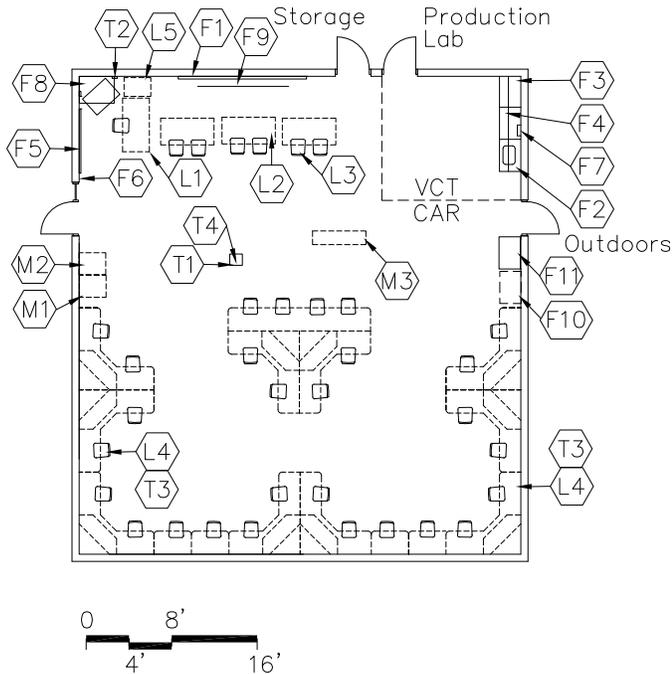
Following are the Technology Education space plates:

- 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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## MODULAR TECHNOLOGY LAB H-TE-1

### CHAPTER 6: HIGH SCHOOL



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**

## CHAPTER 6: HIGH SCHOOL

	Spec. Ref.#	FEATURES <sup>1</sup> : Fixed Items:	Spec. Ref.#
<b>FINISHES<sup>1</sup>:</b>			
<b>Flooring:</b>			
Vinyl composition tile, linoleum, rubber, ET, or sheet vinyl	096500	F1 8'-16' of chalk/marker board	101100
4' width in front of cabinets	096516	F2 3' sink base cabinet	123550
Carpet, <b>carpet tile</b>	096816	F3 About 9' of wall cabinets	123550
	<b>096813</b>	F4 About 6' of base cabinet with heavy duty counter top	123550
		F5 4'-10' of tack board	101100
<b>Base:</b>		F6 Pencil sharpener support	062000
Resilient base	096500	F7 Towel dispenser	102813
		F8 3' of tall wardrobe	123550
<b>Ceiling:</b>		F9 Projection screen (optional)	115213
Suspended, acoustical	095113	F10 Technology support casework	123550
		F11 Tall cabinet (optional)	123550
<b>Walls:</b>		<b>Fire Suppression:</b>	
Painted concrete masonry units	042000/099100	Fire suppression system	211000
		<b>Plumbing:</b>	
		Sink, 12" deep	224000
		Plumbing connections	224000/221116/221119
<b>LOOSE FURNISHINGS:</b>		<b>HVAC:</b>	
L1 Teacher desk/computer support and chair		Supply/return air system	Div. 23
L2 Tables with heavy duty top		Independent temperature controls	230923
L3 Student stools/chairs		<b>Electrical:</b>	
L4 Computer technology workstation		Fluorescent lighting with parabolic lenses	265100
L5 File cabinet		Illumination level: See Table 8600-4	
Wastebasket		Multilevel switching	262726
Pencil sharpener		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
		<b>Communications:</b>	
		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
		<b>Electronic Safety and Security:</b>	
		Life safety devices per code	283111
<b>Miscellaneous:</b>			
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.

## CHAPTER 6: HIGH SCHOOL

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

CAPACITY:

18 students

SIZE:

1,800 SF

ANCILLARY SPACES:

H-TE-2

Storage

## PROGRAM ACTIVITIES:

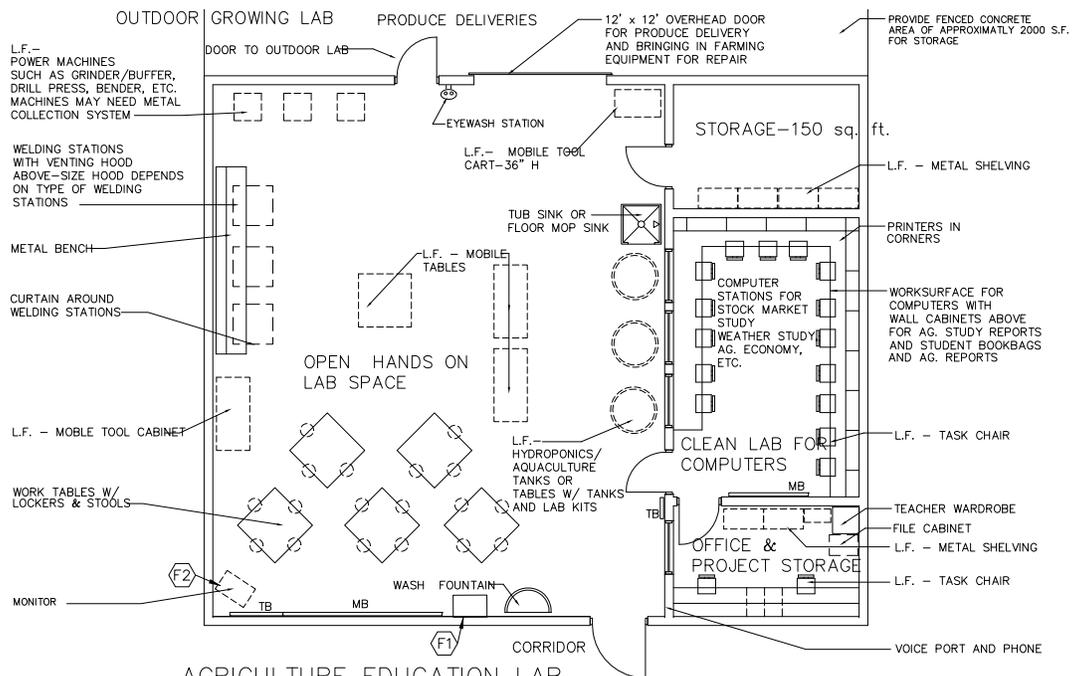
- Individual instruction in agriculture programs such as plant and animal science, soil management, natural resources and mechanical systems.
- Individual and group project work
- Equipment repair
- Small group meetings
- Lab activities related to curriculum

## 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**
**CHAPTER 6: HIGH SCHOOL**

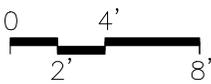
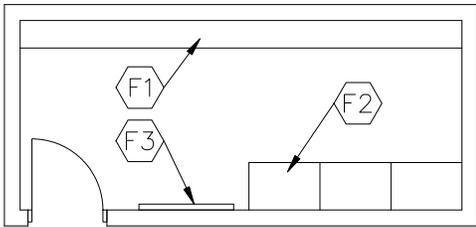
<u>FINISHES<sup>1</sup>:</u>	Spec. <u>Ref.#</u>	<u>FEATURES<sup>1</sup>:</u>	Spec. <u>Ref.#</u>
Flooring:		<u>Fixed Items:</u>	
<b><i>Polished concrete finishing, or</i></b>	<b>033510</b>	8'-16' Chalk/marker board	101100
<b><i>colored concrete finishing</i></b>	<b>033519</b>	Pencil sharpener support	062000
VCT in office/storage	096500	14' Wall and base cabinets	123550
		Workbenches with locker bases	123550
		40' Work surface with heavy duty	
Base:		countertop 36" high, with knee space	123550
Resilient base	096500	8' Tack board	101100
		2 towel dispensers	102813
Ceiling:		F1 3' tall storage cabinet	123550
Painted exposed structure	099100	F2 Technology support casework	123550
		<u>Fire Suppression:</u>	
Walls:		Fire suppression system	211000
Painted concrete masonry units	042000/099100	<u>Plumbing:</u>	
		Wash fountain	224000
<u>LOOSE FURNISHINGS:</u>		Plumbing connections 224000/221116/221119	
Tables with heavy duty tops		Tub sink or floor mop sink	224000
Waste receptacle		Emergency eyewash station connection	224000
Task chairs		Sanitary drainage products	221316
Metal shelving		<u>HVAC:</u>	
Teacher wardrobe		Supply/return air system	Div. 23
File cabinet		Independent temperature controls	230923
Pencil sharpener		Localized welding station	
Mobile tool cabinet		venting hood	233515
		<u>Electrical:</u>	
		High intensity discharge lighting	265100
		Illumination level: See Table 8600-4	
		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:**

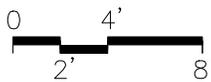
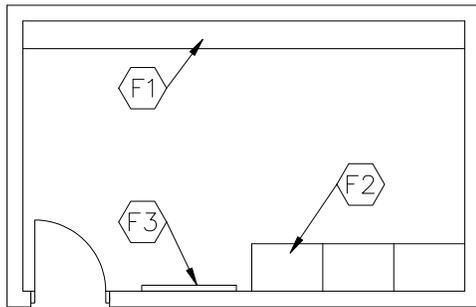
1. Finishes/Features: Refer to Chapter 9 for specification references.

CHAPTER 6: HIGH SCHOOL

150 SF



200 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

CAPACITY:

N/A

SIZE:

150 – 250 SF

NOTES:

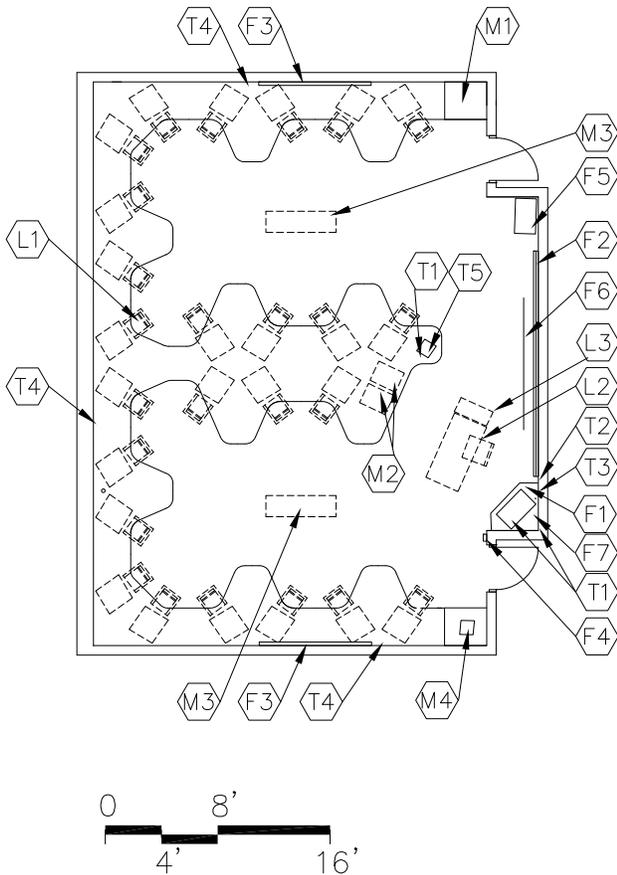
**STORAGE  
H-TE-2**

CHAPTER 6: HIGH SCHOOL

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES<sup>1</sup>:</u>		<u>FEATURES<sup>1</sup>:</u>	
Flooring:		<u>Fixed Items:</u>	
<b>Cure and seal</b> 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: 25 students  
SIZE: 1,200 SF

**NOTES:**

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

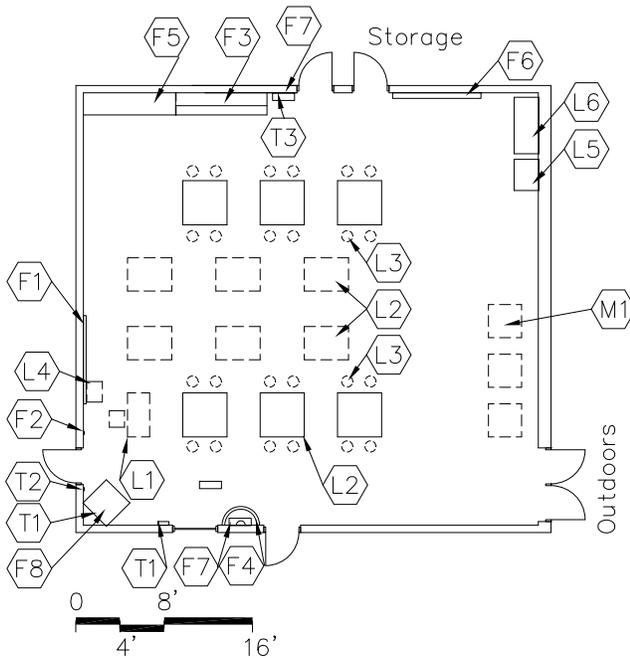
**CADD LAB  
H-TE-3**

## CHAPTER 6: HIGH SCHOOL

<u>FINISHES</u> <sup>1</sup> :	Spec. Ref.#	<u>FEATURES</u> <sup>1</sup> :	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Carpet, <b>carpet tile</b> , ET, linoleum, or sheet vinyl	096816 096500 096516 <b>096813</b>	F1 3' of tall wardrobe with file drawers F2 8'-16' of chalk/marker board F3 8'-16' of tack board F4 Pencil sharpener support F5 4'-8' base and wall cabinets for printers and storage of paper, cartridges, etc.	123550 101100 101100 062000 123550
Base:		F6 Projection screen (optional)	115213
Resilient base	096500	F7 Technology support casework	123550
Ceiling:		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
Walls:		<u>Plumbing:</u>	
Painted concrete masonry units	042000/099100	N/A	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Computer workstation furniture		Supply/return air system	Div. 23
L2 Teacher desk and chair		Independent temperature control	230923
L3 File cabinet		<u>Electrical:</u>	
Wastebasket		Fluorescent lighting with parabolic lenses	265100
Pencil sharpener		Illumination level: See Table 8600-4	
L1 could be fixed casework.		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:**

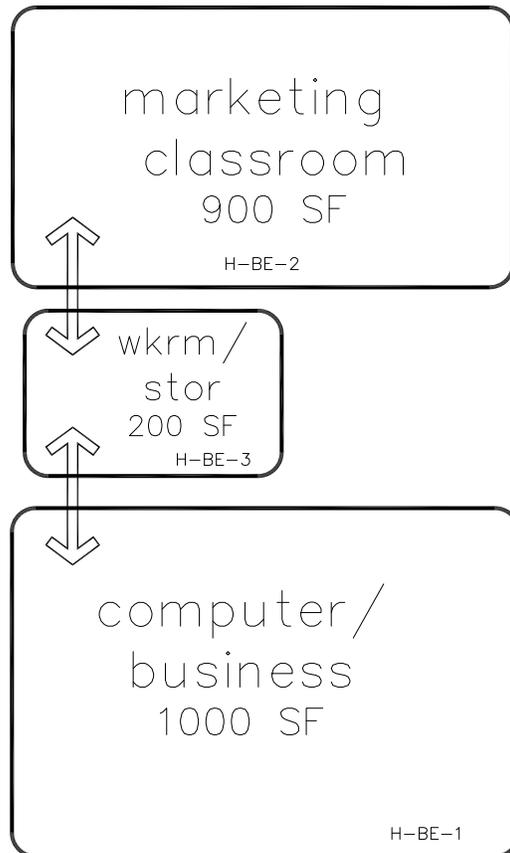
1. Loose furnishings represent one of many possible arrangements.
2. This is a multi-use space for vocational agriculture, wood shops, metal shops, or other industrial education laboratories.

**PRODUCTION LAB  
H-TE-4**
**CHAPTER 6: HIGH SCHOOL**

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
<b>Polished concrete finishing, or</b>	<b>033510</b>	F1 8'-16' of chalk/marker board	101100
<b>colored concrete finishing</b>	<b>033519</b>	F2 Pencil sharpener support	062000
Base:		F3 12' of wall and 12' of base cabinets	123550
Resilient base	096500	F4 Wash fountains	
Ceiling:		F5 6'-12' of work surface with heavy duty countertop 36" high, with knee space	123550
Painted exposed structure	099100	F6 6'-8' of tack board	101100
Walls:		F7 2 towel dispensers	102813
Painted concrete masonry units	042000/099100	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.

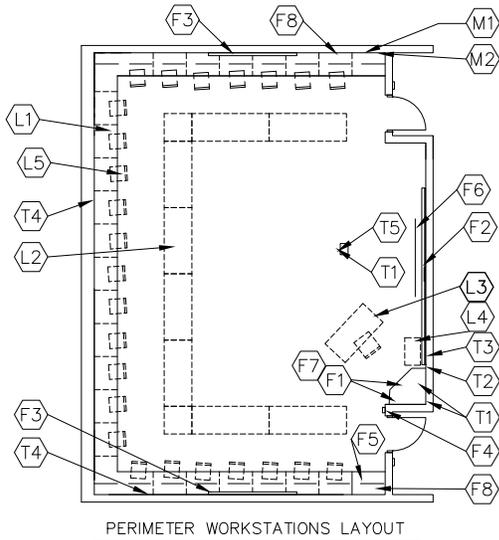
Following are the Business Education space plates:

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

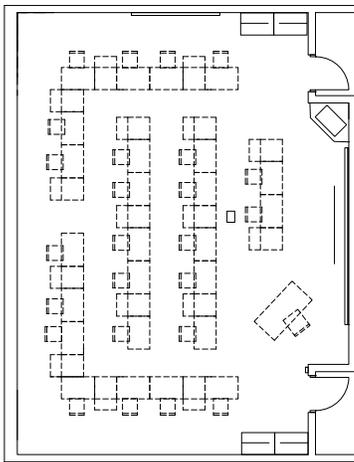
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**COMPUTER AND BUSINESS CLASSROOM  
H-BE-1**

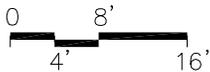
CHAPTER 6: HIGH SCHOOL



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**

CHAPTER 6: HIGH SCHOOL

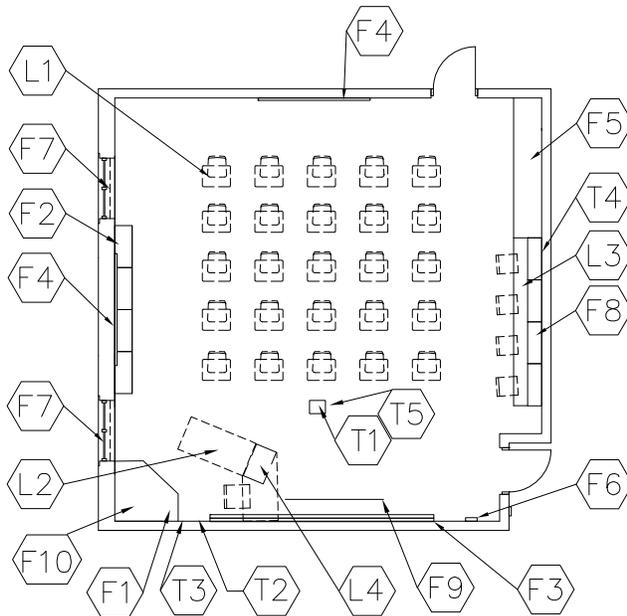
	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>FINISHES<sup>1</sup>:</u>		<u>Fixed Items:</u>	
Flooring:		F1 3' of tall wardrobe with file drawers	123550
Carpet, <b>carpet tile</b> ,	096816	F2 8'-16' of chalk/marker board	101100
Optional: ET, sheet vinyl,	096500	F3 8'-16' of tack board	101100
or rubber	<b>096813</b>	F4 Pencil sharpener support	062000
Base:		F5 Base cabinets	123550
Resilient base	096500	F6 Projection screen (optional)	115213
Ceiling:		F7 Technology support casework	123550
Suspended, acoustical	095113	F8 Wall cabinets for student book storage and program manuals	123550
Walls:		<u>Fire Suppression:</u>	
Painted concrete masonry units		Fire suppression system	211000
	042000/099100	<u>Plumbing:</u>	
		N/A	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 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
L1 could be fixed casework.		Double duplex receptacle adjacent to each data and video port	262726
		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.

## MARKETING CLASSROOM H-BE-2

### CHAPTER 6: HIGH SCHOOL



CAPACITY:  
SIZE:

25 students  
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**

## CHAPTER 6: HIGH SCHOOL

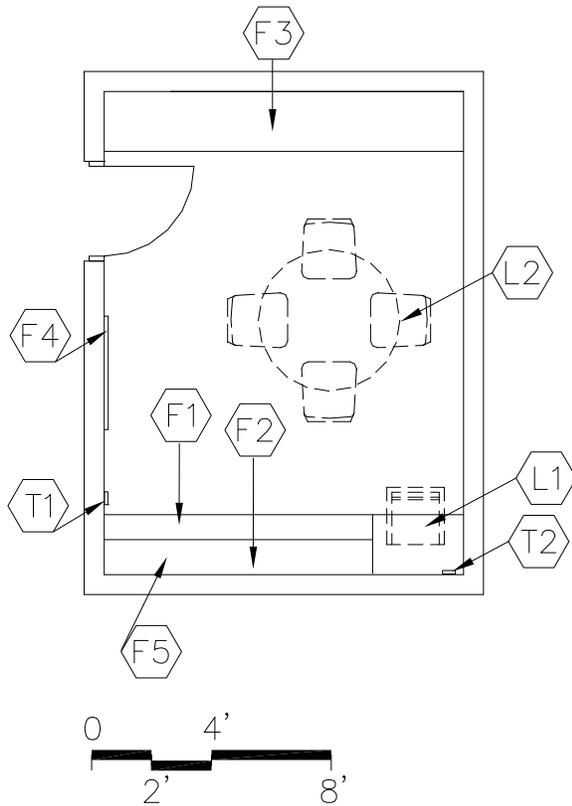
	Spec. Ref.#		Spec. Ref.#
<b>FINISHES<sup>1</sup>:</b>		<b>FEATURES<sup>1</sup>:</b>	
Flooring:		<b>Fixed Items:</b>	
Carpet, <b>carpet tile</b>	096816	F1 3' of tall wardrobe with file drawers	123550
Optional: ET, sheet vinyl, linoleum, or rubber	096500 096516 <b>096813</b>	F2 6'-10' of bookcases	123550
		F3 10'-16' of chalk/marker board	101100
		F4 8'-16' of tack board	101100
		F5 6'-10' of base cabinets	123550
Base:		F6 Pencil sharpener support	062000
Resilient base	096500	F7 Windows with integral blinds	085113
		F8 6'-10' of wall cabinets	123550
Ceiling:		F9 Projection screen (optional)	115213
Suspended, acoustical	095113	F10 Technology support casework	123550
Walls:		<b>Fire Suppression:</b>	
Painted concrete masonry units		Fire suppression system	211000
	042000/099100		
		<b>Plumbing:</b>	
		N/A	
<b>LOOSE FURNISHINGS:</b>		<b>HVAC:</b>	
L1 Student desks and chairs		Supply/return air system	Div. 23
L2 Teacher desk/computer support and chair		Independent temperature control	230923
L3 Computer workstation furniture			
L4 Desk height file cabinet		<b>Electrical:</b>	
Wastebasket		Fluorescent lighting:	265100
Pencil sharpener		Illumination level: See Table 8600-4	
		Multilevel switching	262726
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		<b>Communications:</b>	
		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
		<b>Electronic Safety and Security:</b>	
		Life safety devices per code	283111
		<b>Miscellaneous:</b>	
		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.

**WORKROOM/STORAGE  
H-BE-3**
**CHAPTER 6: HIGH SCHOOL**

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**

CHAPTER 6: HIGH SCHOOL

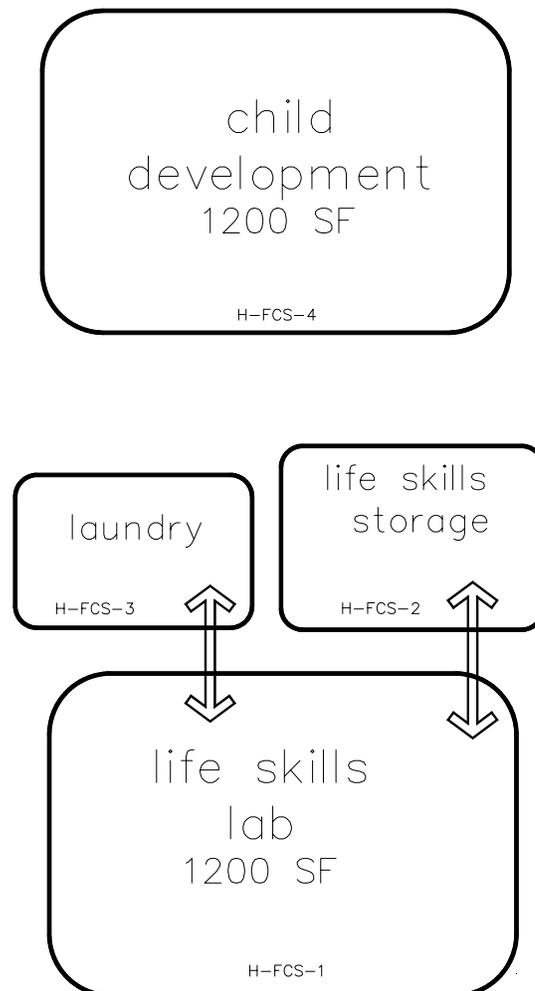
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items<sup>2</sup>:</u>	
Carpet, <b>carpet tile</b> , ET, linoleum,	096816	F1 6'-9' of base cabinets	123550
Or sheet vinyl	096500	F2 6'-9' of wall cabinets	123550
	096516	F3 12'-24' of tall storage 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.

**FAMILY AND CONSUMER SCIENCE SPACES  
H-FCS**

CHAPTER 6: HIGH SCHOOL



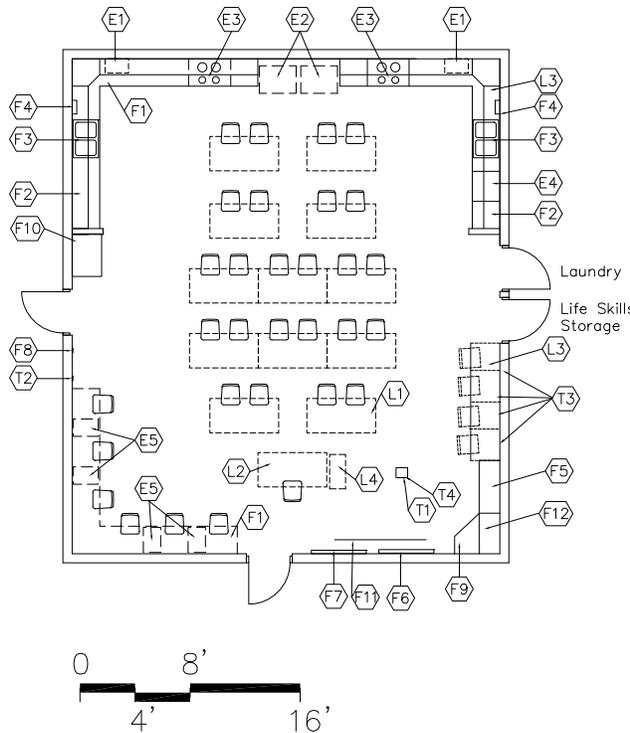
**NOTE:**

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.#
<b><u>FINISHES<sup>1</sup>:</u></b>		<b><u>FEATURES<sup>1</sup>:</u></b>	
Flooring:		<b><u>Fixed Items:</u></b>	
Linoleum,	096500	F1 Base cabinets	123550
VET, sheet vinyl, or rubber	096516	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	123550
		(could have trays)	
Walls:		F11 Projection screen (optional)	115213
Painted concrete masonry units		F12 Technology support casework	123550
	042000/099100		
<b><u>LOOSE FURNISHINGS:</u></b>		<b><u>Fire Suppression:</u></b>	
L1 Tables and chairs		Fire suppression system	211000
L2 Teacher desk/computer support and chair		<b><u>Plumbing:</u></b>	
L3 Computer workstation furniture		Double sinks	224000
L4 File cabinet		Plumbing connections	224000/221116/22119
Wastebaskets		Garbage disposals (optional)	
Pencil sharpener		<b><u>HVAC:</u></b>	
		Supply/return air system	Div. 23
<b><u>EQUIPMENT:</u></b>		Manually operated exhaust air system	Div. 23
E1 Microwaves		Independent temperature controls	230923
E2 Refrigerators		<b><u>Electrical:</u></b>	
E3 Range and oven		Fluorescent lighting	265100
E4 Dishwasher		Illumination level: See Table 8600-4	
E5 Sewing machines		Multilevel switching	262726
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		Receptacles for refrigerators, microwaves, ranges, dishwashers, and sewing machines	262726
		Means of egress lighting per code	265100
		Emergency lighting per code	265100
Miscellaneous:		<b><u>Communications:</u></b>	
N/A		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
		<b><u>Electronic Safety and Security:</u></b>	
		Life safety devices per code	283111

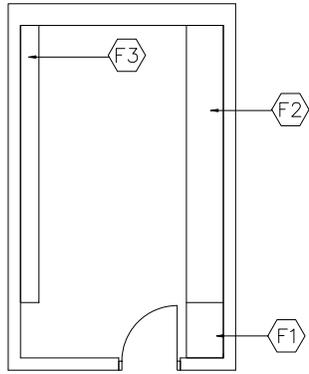
**NOTES:**

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.

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

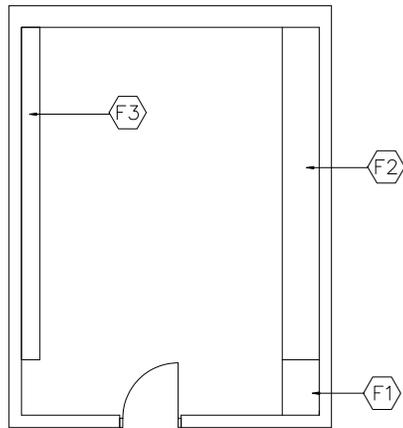
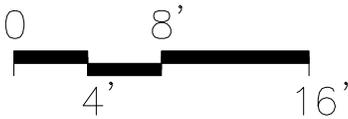
**CHAPTER 6: HIGH SCHOOL**

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:

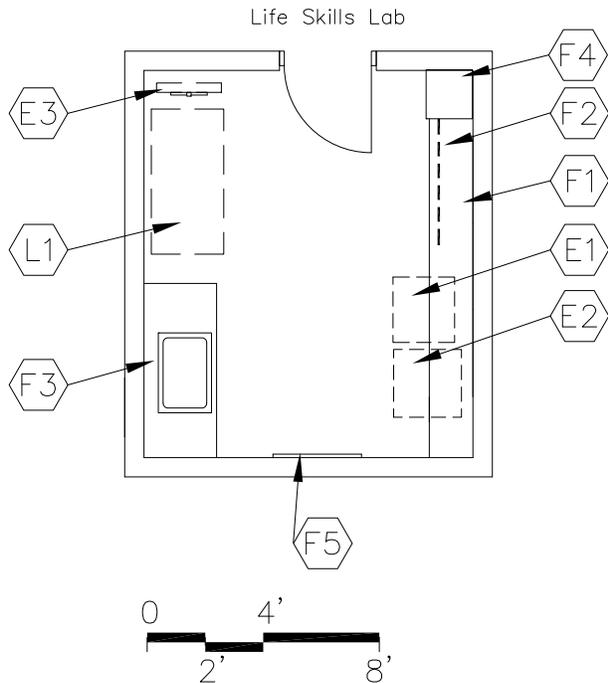
**LIFE SKILLS STORAGE  
H-FCS-2**

CHAPTER 6: HIGH SCHOOL

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES<sup>1</sup>:</u>		<u>FEATURES<sup>1</sup>:</u>	
Flooring:		<u>Fixed Items<sup>2</sup>:</u>	
<b>Rubber</b>	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

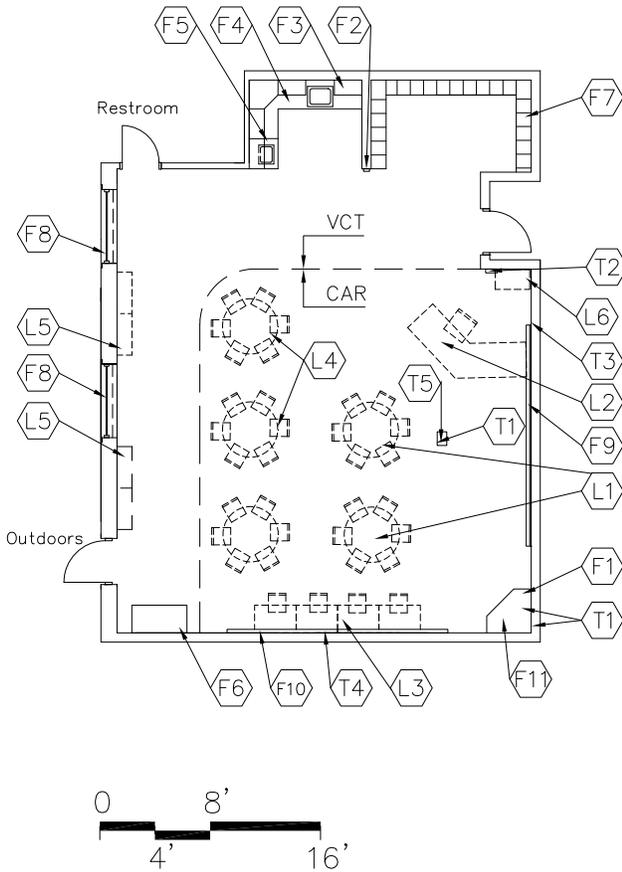
NOTES:

**LAUNDRY  
H-FCS-3**
**CHAPTER 6: HIGH SCHOOL**

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES<sup>1</sup>:</u>		<u>FEATURES:</u>	
Flooring:		<u>Fixed Items<sup>1</sup>:</u>	
Linoleum,	096516	F1 14' of wall cabinets	123550
ET, or sheet vinyl	096500	F2 6' hanging bar/drying rack (optional)	123550
Base:		F3 6' sink base cabinet	123550
Resilient base	096500	F4 3' tall cabinet (optional)	123550
Ceiling:		F5 5' high mirror (optional)	102813
Suspended, acoustical	095113	<u>Fire Suppression:</u>	
Walls:		Fire suppression system	211000
Painted concrete masonry units		<u>Plumbing:</u>	
042000/099100		Sink, 12" deep	224000
		Plumbing connections	224000/221116/221119
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Folding table		Supplemental heat as required	Div. 23
Wastebasket		Exhaust air system	Div. 23
		Exhaust for dryer	Div. 23
<u>EQUIPMENT:</u>		<u>Electrical:</u>	
E1 Washer		Fluorescent lighting:	265100
E2 Electric dryer		Illumination level: See Table 8600-4	
E3 Ironing board		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.



**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

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

NOTES:

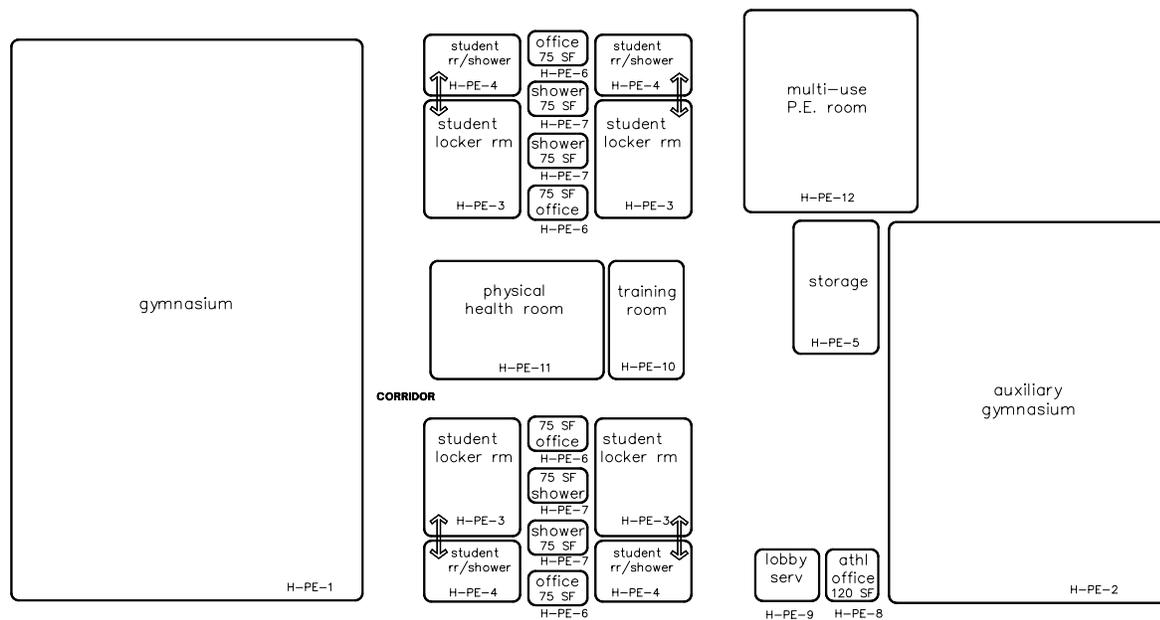
1. Loose furnishings shown represent one of many possible arrangements.

**CHILD DEVELOPMENT  
H-FCS-4**
**CHAPTER 6: HIGH SCHOOL**

<u>FINISHES<sup>1</sup>:</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
<b>carpet tile</b> , linoleum,	096500	F2 Pencil sharpener support	062000
ET, sheet vinyl, or rubber	096516	F3 12' of wall cabinets	123550
	<b>096813</b>	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
<u>LOOSE FURNISHINGS:</u>		F11 Technology support casework	123550
L1 Student desks and chairs		<u>Fire Suppression:</u>	
L2 Teacher desk/computer support and chair		Fire suppression system	211000
L3 Computer workstation furniture		<u>Plumbing:</u>	
L4 Tables and chairs for preschool children		2 sinks (1 with drinking fountain)	224000
L5 Low mobile storage units		Plumbing connections	224000/221116/221119
L6 File cabinet		<u>HVAC:</u>	
Wastebasket		Supply/return air system	Div. 23
Pencil sharpener		Independent temperature control	230923
		<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.



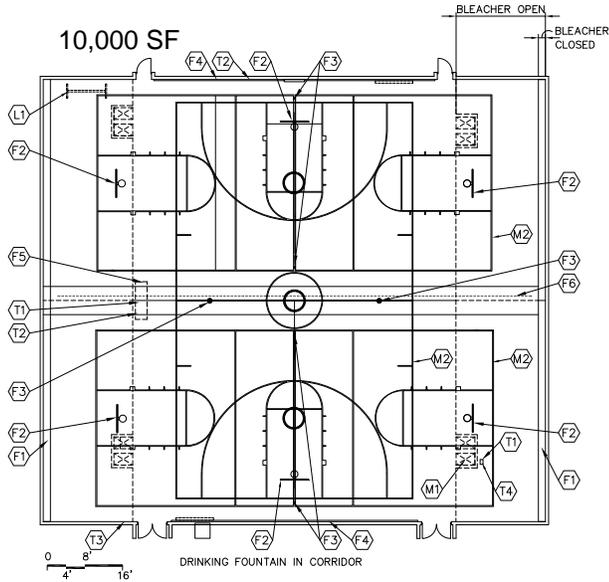
## NOTES:

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.

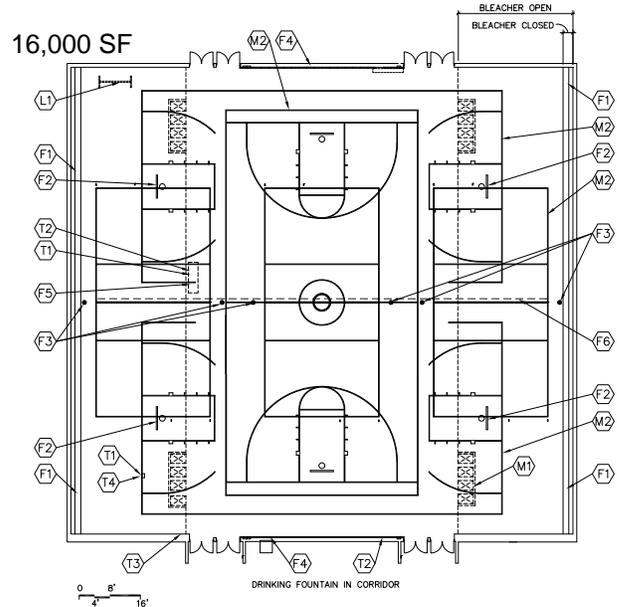
Following are the Physical Education space plates:

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



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

<p><b>CAPACITY:</b> 60 – 75 Students</p> <p><b>SIZE:</b> 10,000 – 20,000 SF</p> <p><b>ANCILLARY SPACES:</b> Physical Education Storage H-PE-5</p>	<p><b>PROGRAM ACTIVITIES:</b></p> <ul style="list-style-type: none"> <li>Physical education classes and interscholastic athletic competition</li> <li>Student assemblies</li> <li>Community use</li> </ul> <p><b>SPATIAL RELATIONSHIPS:</b></p> <ul style="list-style-type: none"> <li>Near locker rooms</li> <li>Adjacent to outdoors</li> <li>Near student dining</li> </ul> <p><b>ENVIRONMENTAL CONSIDERATIONS:</b></p> <ul style="list-style-type: none"> <li>Uniform lighting</li> <li>Environmental sound control - walls minimum STC 60</li> <li>Acoustical requirements and other factors as determined by final configuration of the space</li> <li>Clear height of 25' from floor to nearest obstruction</li> </ul>
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NOTES:

- Loose furnishings shown represent one of many possible arrangements.

**GYMNASIUM  
H-PE-1**

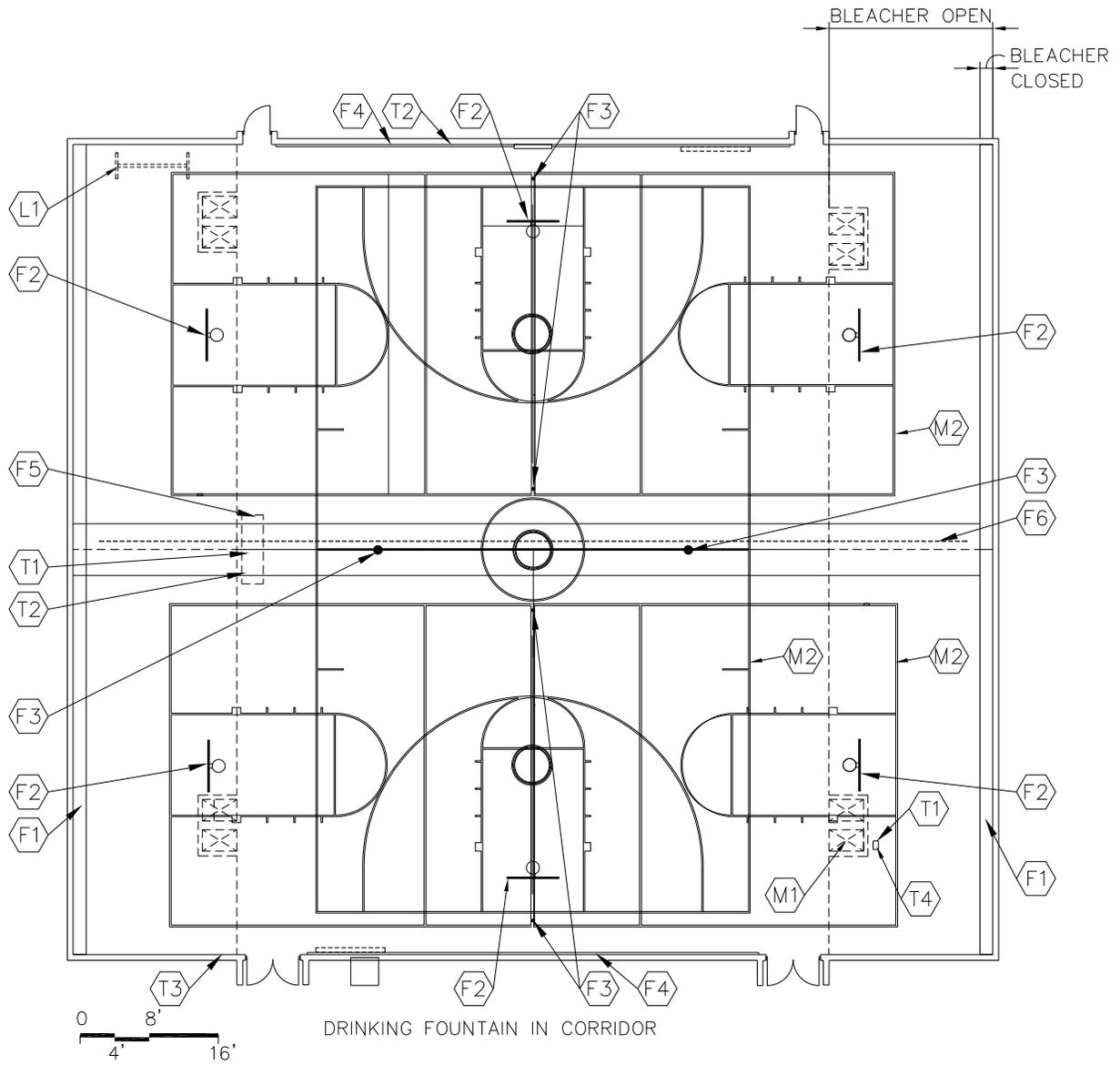
CHAPTER 6: HIGH SCHOOL

	Spec. Ref.#	FEATURES:	Spec. Ref.#
<b>FINISHES<sup>1</sup>:</b>		<b>Fixed Items:</b>	
Flooring:		F1 Telescoping stands	126600
Wood	096466	F2 6 basketball backstops, glass	116623
Base:		F3 Volleyball sleeves and standards on a cart	116623
Ventilated resilient base	096466	F4 Safety wall wainscot	116623
Ceiling:		F5 Scorer's table	126600
Painted exposed structure	099100	F6 Divider gym curtain	116623
Walls:		<b>Fire Suppression:</b>	
Painted	099100	Fire suppression system	211000
Sound absorption concrete masonry units on 2 walls or	042000	<b>Plumbing:</b>	
abuse-resistant acoustical wall treatment	098000	<b>Drinking fountain</b> <b>224000</b> <b>directly outside the entrance</b>	
<b>LOOSE FURNISHINGS:</b>		<b>HVAC:</b>	
L1 Portable chalkboard		Supply/return air system	Div. 23
		Independent temperature control	230923
		<b>Electrical:</b>	
		High intensity discharge lighting or fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		Multi-level switching	262726
		8 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		Emergency lighting per code	265100
		Means of egress lighting per code	265100
		Electrical connections to P.E. equipment where necessary	262726
		Scoreboard	116643
		Telecommunications Grounding	270526/260526
<b>Miscellaneous:</b>		<b>Communications:</b>	
M1 Handicapped seating		T1 2 video ports, 1 monitor w/cart	271533/271543/274119
M2 Court markings (minimum) 84 x 50 basketball court (2) cross-court basketball courts Regulation volleyball court		T2 2 data ports	271513
Provide wire guards on light fixtures and wall-mounted electrical devices		T3 1 voice port	271513/273113
		Clocks with wire guards	275313
		Central sound system	275123
		Gymnasium sound system	275124
		T4 Overhead projector	274119
		<b>Electronic Safety and Security:</b>	
		Life safety devices per code	283111

**NOTES:**

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

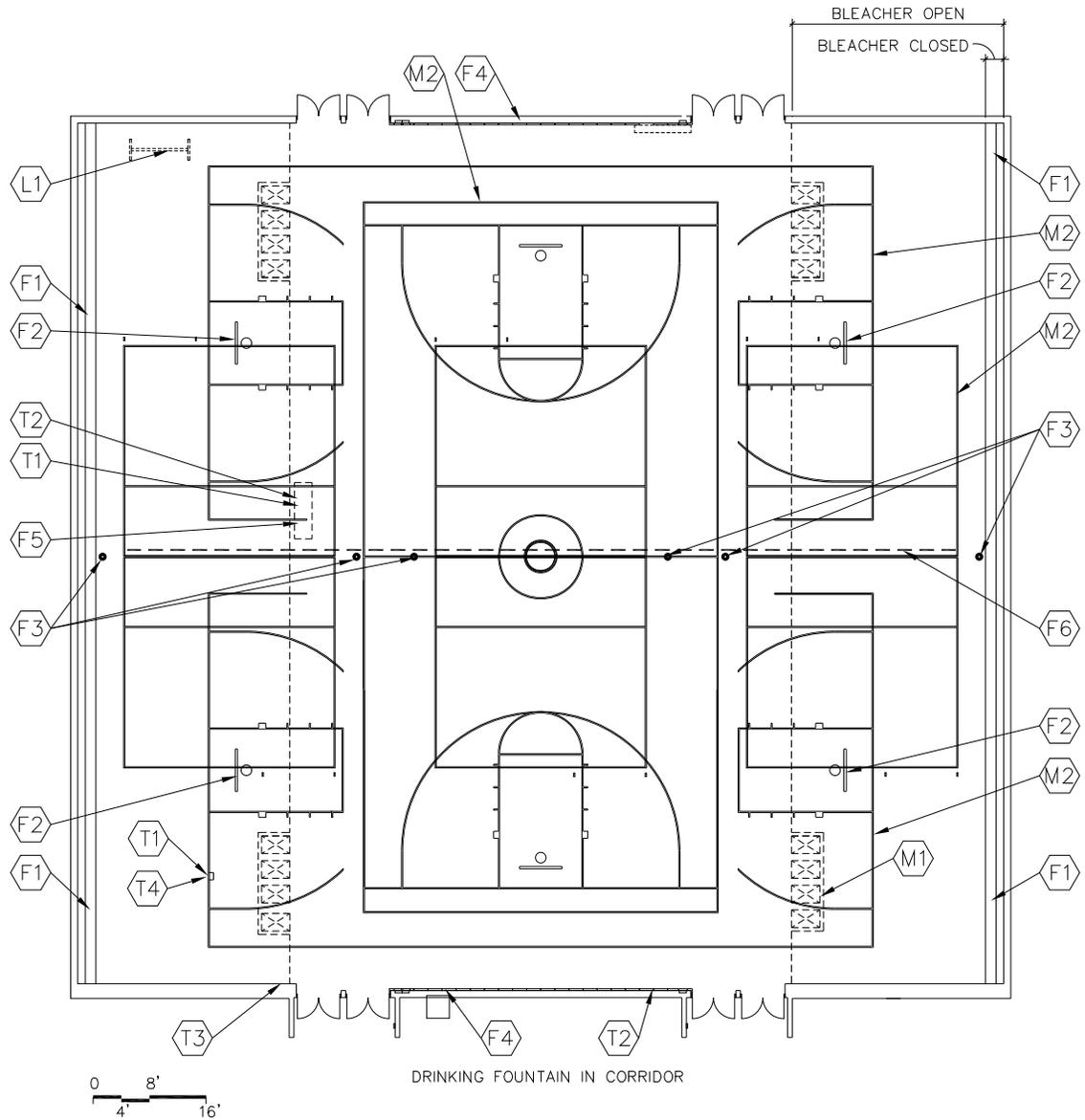
10,000 SF



**GYMNASIUM  
H-PE-1**

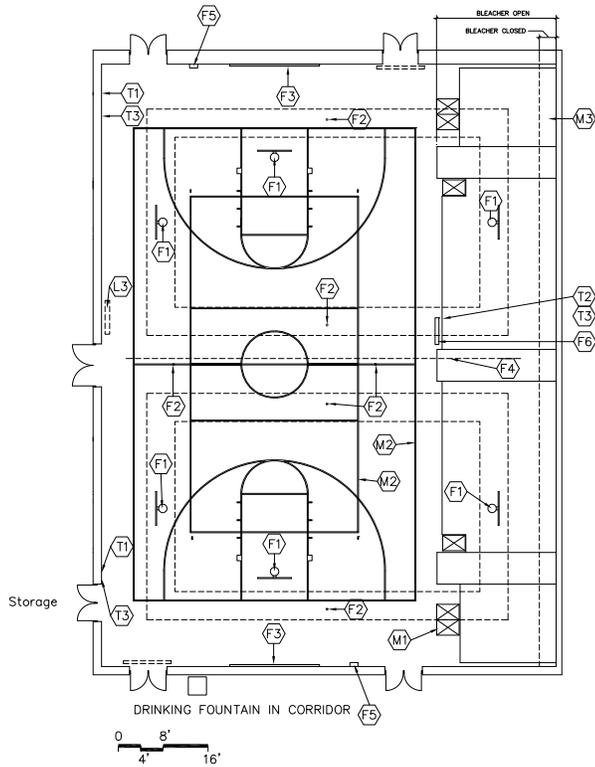
**CHAPTER 6: HIGH SCHOOL**

16,000 SF



## AUXILIARY GYMNASIUM H-PE-2

### CHAPTER 6: HIGH SCHOOL



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**

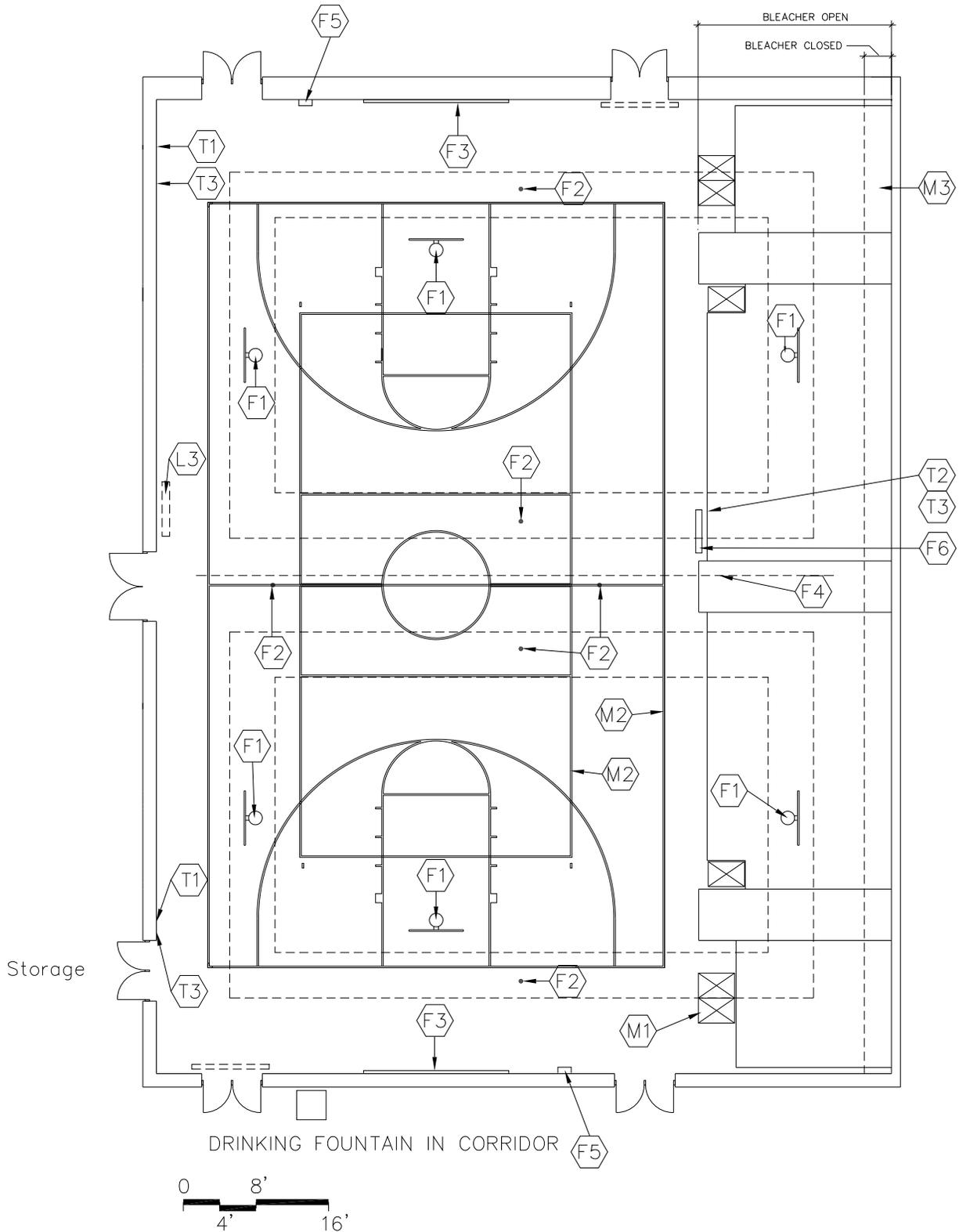
CHAPTER 6: HIGH SCHOOL

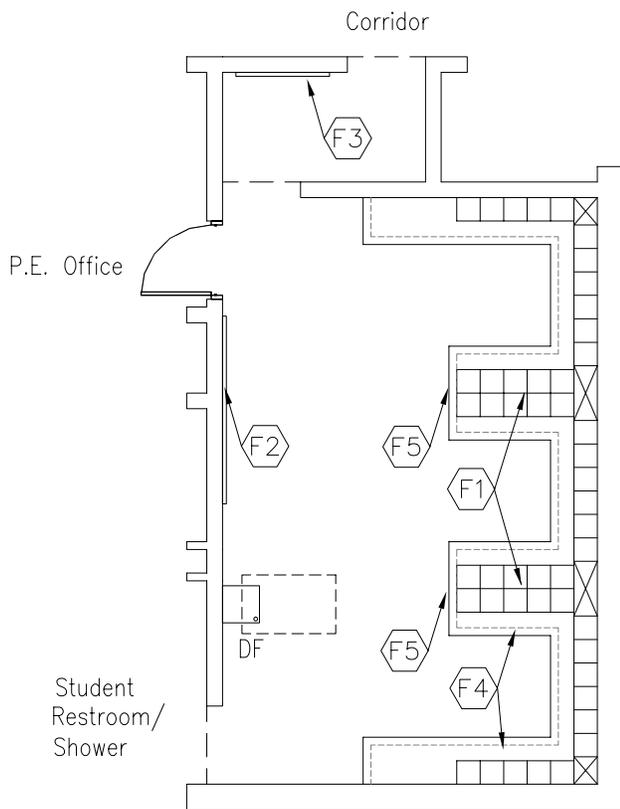
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Wood flooring	096466	F1 6 basketball backstops, glass	116623
		F2 Volleyball sleeves and standards on a cart	116623
Base:		F3 Safety wall wainscot	116623
Ventilated resilient base	096466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

CHAPTER 6: HIGH SCHOOL

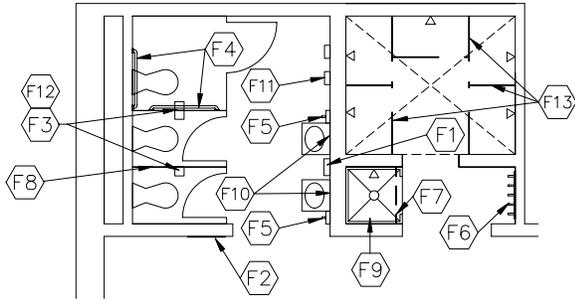
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<b>Flooring:</b>		<b>Fixed Items:</b>	
Vinyl or rubber sheet flooring,	096500	F1 Athletic lockers	105113
rubber tile, or	096723	F2 4'-8' of chalk/marker board (optional)	101100
resinous flooring		F3 4'-8' of tack board	101100
<b>Base:</b>		F4 Locker benches	062000
Resilient base or	096500	F5 Mirrors	102813
resinous flooring	096723	<b>Fire Suppression:</b>	
<b>Ceiling:</b>		Fire suppression system	211000
Suspended, acoustical with high-impact,		<b>Plumbing:</b>	
hold-down clips	095113	Drinking <i>fountain</i>	224000/224700
Option: Exposed, painted pre-cast units	099100	<b>HVAC:</b>	
<b>Walls:</b>		Supply air system	Div. 23
Painted concrete masonry units	<b>042000/099100</b>	Exhaust air system	Div. 23
		Independent temperature control	230923
<b>LOOSE FURNISHINGS:</b>		<b>Electrical:</b>	
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
		<b>Communications:</b>	
		Clock	275313
		Central sound system	275123
		<b>Electronic Safety and Security:</b>	
		Life safety devices per code	283111
		<b>Miscellaneous:</b>	
		N/A	

**NOTES:**

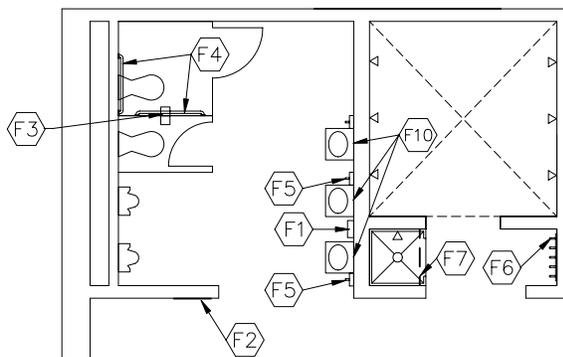
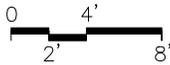
1. Finishes/Features: Refer to Chapter 9 for specification references.

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

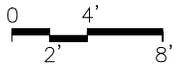
CHAPTER 6: HIGH SCHOOL



Female Student Locker Room



Male Student Locker Room



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**

CHAPTER 6: HIGH SCHOOL

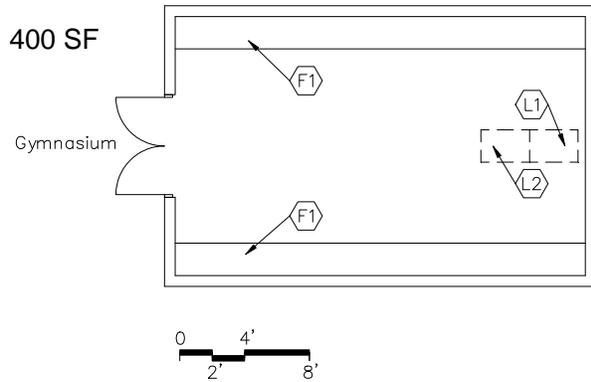
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<b>Flooring:</b>		<b>Fixed Items:</b>	
Restroom: Vinyl, rubber sheet flooring, rubber tile, or resinous flooring	096500 093000 096723	F1 Towel dispensers	102813
Shower: Ceramic mosaic tile, porcelain tile, or resinous flooring		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 <sup>2</sup>	102813
		F12 Sanitary product receptacles <sup>2</sup>	102813
		F13 Modesty shower partitions <sup>2</sup>	102813
<b>Base:</b>		<b>Fire Suppression:</b>	
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		<b>Plumbing:</b>	
		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
		<b>HVAC:</b>	
		Supply/return air system	Div. 23
		Exhaust air system	Div. 23
		<b>Electrical:</b>	
		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
		<b>Communications:</b>	
		Central sound system	275123
		<b>Electronic Safety and Security:</b>	
		Life safety devices per code	283111
		<b>Miscellaneous:</b>	
		N/A	
<b>CEILING:</b>			
Restroom: Suspended, acoustical with high-impact & hold-down clips	095113		
Shower: Painted portland cement plaster or interior finish system	092400/099100 092513		
<b>Walls:</b>			
Epoxy-painted concrete masonry units	<b>042000</b> /099100		
or ceramic wall tile in showers and latex paint in restroom	093000 099100		
<b>LOOSE FURNISHINGS:</b>			
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

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

**CHAPTER 6: HIGH SCHOOL**



**PROGRAM ACTIVITIES:**

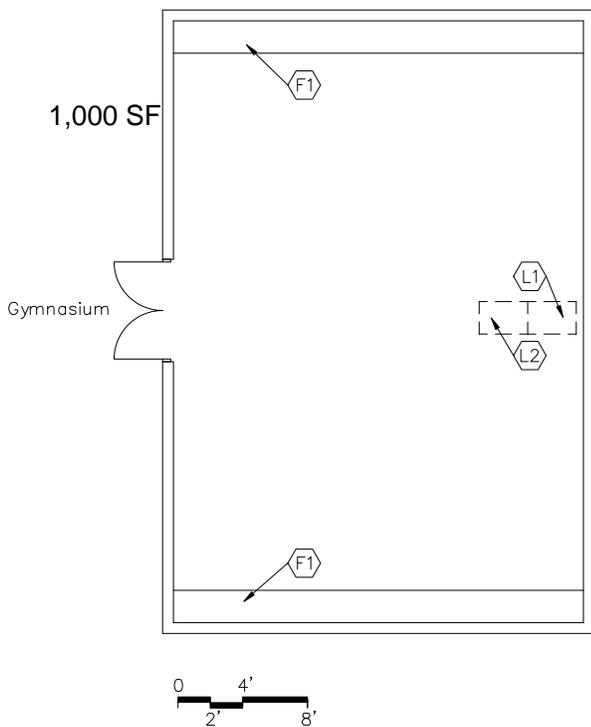
- Storage for physical education equipment

**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:**

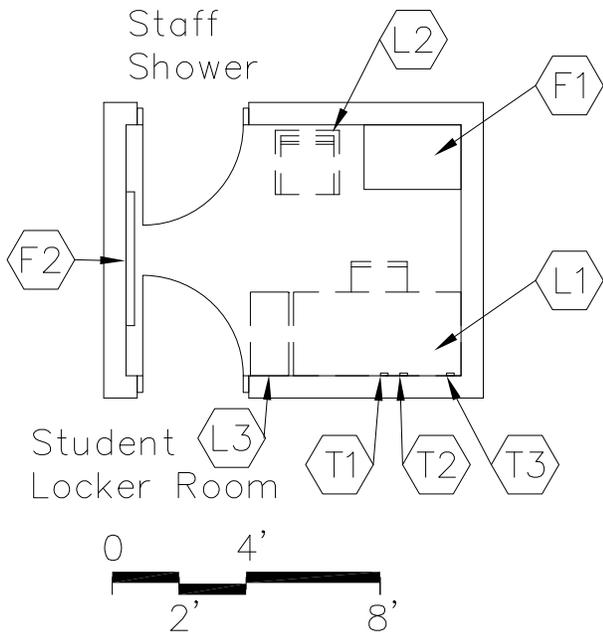
**PHYSICAL EDUCATION STORAGE  
H-PE-5**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items<sup>2</sup>:</u>	
<b>Cure and seal</b> concrete	033000	F1 20' - 48' 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	
Option: Rated gypsum wallboard	092113	<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>	
L1 Tumbling mats on carts		Single level switching	262726
L2 Ball carts		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**

CHAPTER 6: HIGH SCHOOL

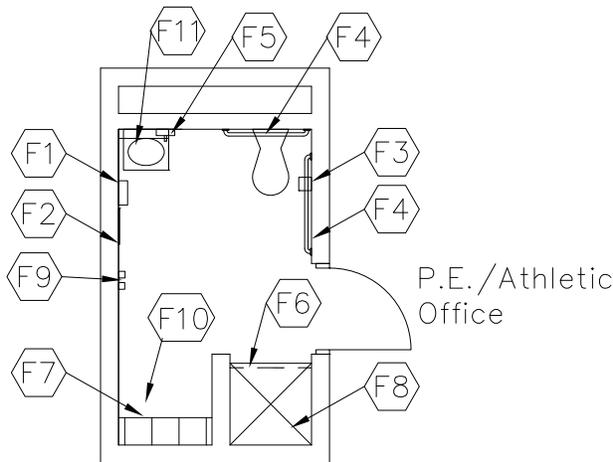
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Linoleum,	096500	F1 2' of tall wardrobe	123550
ET, sheet vinyl, or rubber	096516	F2 4' of tack board	101100
Base:		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	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
		(coupled with similarly loaded	
		adjacent spaces)	
<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.

**STAFF SHOWER  
H-PE-7**

CHAPTER 6: HIGH SCHOOL



**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:

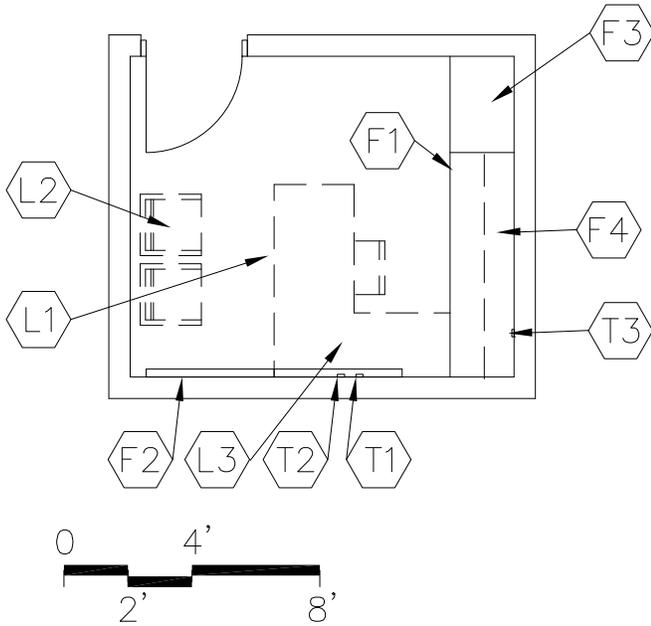
**STAFF SHOWER  
H-PE-7**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Restroom: Linoleum, ET,	096500	F1 Towel dispenser	102813
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
		F7 3 athletic lockers	105113
<u>Base:</u>		F8 ADA Shower accessories	102813
Restroom: Resilient base,	096500	F9 Towel hooks	102813
resinous flooring, or	093000	F10 Built-in bench (optional)	102813
integral vinyl cove base	096723	F11 Mirror over sink with shelf (optional)	102813
Shower: Ceramic mosaic tile base,			
porcelain tile base, resinous flooring,			
or integral vinyl cove base			
		<u>Fire Suppression:</u>	
<u>Ceiling:</u>		Fire suppression system	211000
Restroom: Suspended, acoustical	095113		
Shower: Painted portland cement plaster	092400/099100	<u>Plumbing:</u>	
or interior finish system	092513	Wall-mounted water closet	224000
		Wall-mounted lavatory	224000
		ADA shower controls and head	224000
		Plumbing connections	224000/221116/221119
<u>Walls:</u>			
Epoxy painted concrete masonry units	042000/099100	<u>HVAC:</u>	
or ceramic wall tile in shower	093000	Exhaust air system	Div. 23
and latex paint in restroom	099100	Supplemental heat as required	Div. 23
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
Wastebasket		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		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**

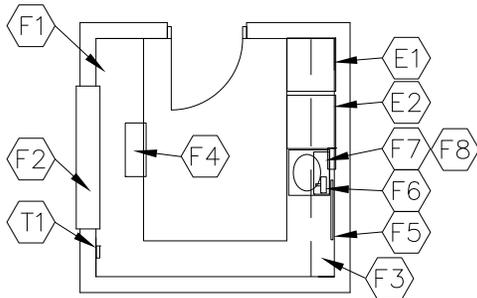
## CHAPTER 6: HIGH SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet, <b>carpet tile</b>	096816 <b>096813</b>	F1 Work surface with file drawers	123550
		F2 4' of tack board or tackable wall surface	101100
<u>Base:</u>		F3 2' of tall wardrobe	123550
Resilient base	096500	F4 Wall cabinets above work surface	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 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	

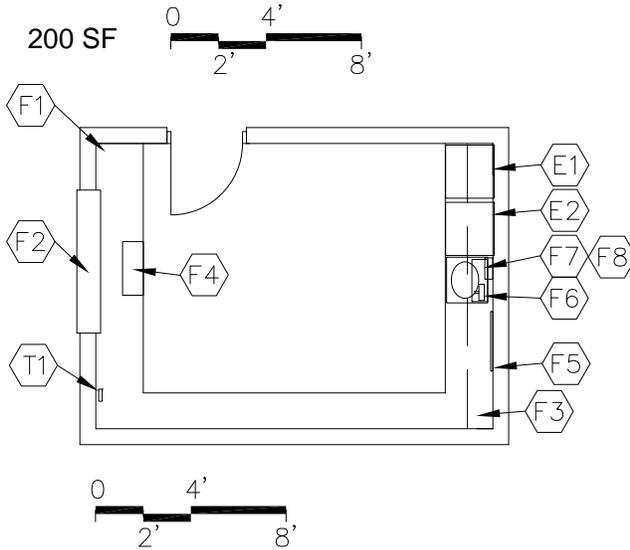
NOTES:

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:

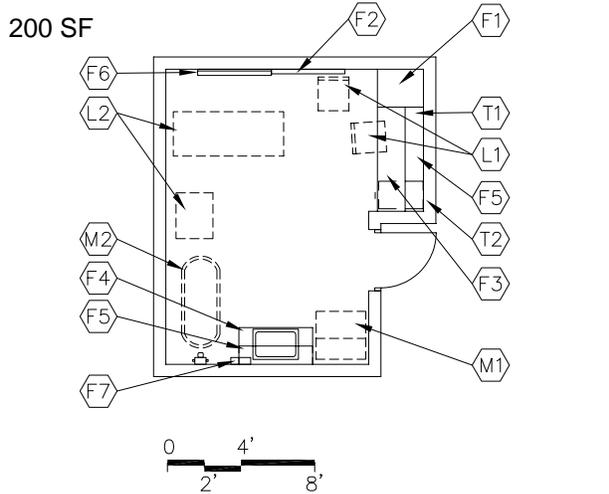
**LOBBY SERVICES**  
**H-PE-9**

## CHAPTER 6: HIGH SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Linoleum,	096516	F1 10' - 40' of base cabinets	123550
ET, sheet vinyl, or rubber	096500	F2 Coiling door	083320
Base:		F3 Wall cabinets	123550
Resilient base	096500	F4 Money drawer	
Ceiling:		F5 4' of tack board	101100
Suspended, acoustical	095113	F6 Soap dispenser	102813
Walls:		F7 Shelf above sink (optional)	102813
Painted concrete masonry units		F8 Towel dispenser	102813
	042000/099100	<u>Fire Suppression:</u>	
<u>LOOSE FURNISHINGS:</u>		Fire suppression system	211000
Stool		<u>Plumbing:</u>	
<u>EQUIPMENT:</u>		Washer connection	224000
E1 Washer		Sink in cabinet	224000
E2 Dryer		Plumbing connections	224000/221116/221119
		<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Independent temperature control	230923
		Dryer vent connection	Div. 23
		<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.

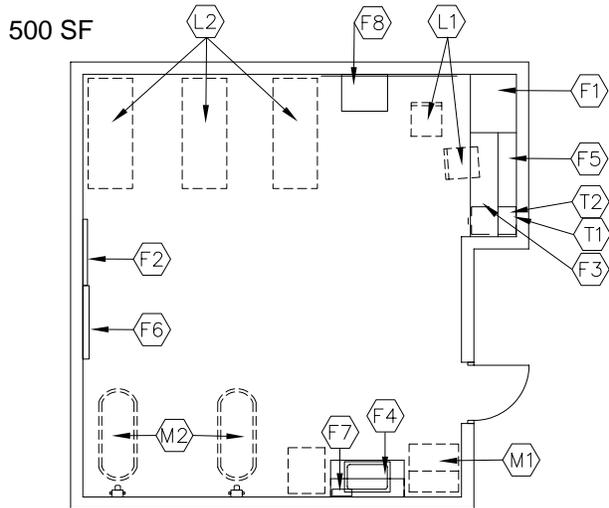


**PROGRAM ACTIVITIES:**

- 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**

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

**NOTES:**

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

**TRAINING ROOM  
H-PE-10**

## CHAPTER 6: HIGH SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. <u>Ref.#</u>	<u>FEATURES<sup>1</sup>:</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	<b>042000</b> /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.



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

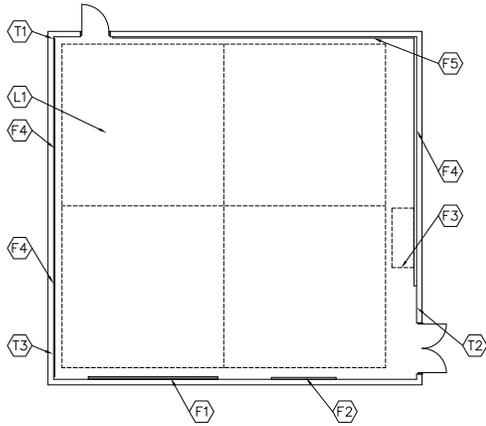
CHAPTER 6: HIGH SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</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	<b>088300</b>
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	<b>042000</b> /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	

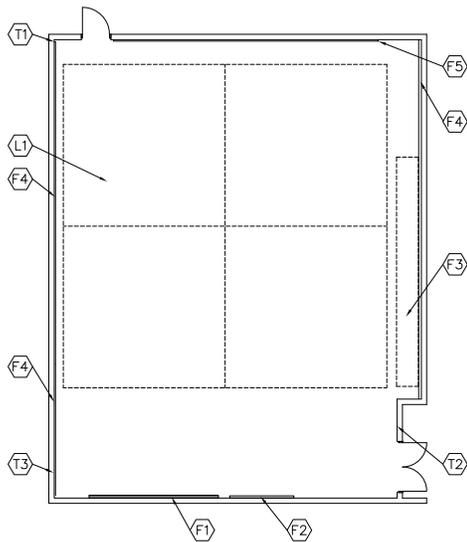
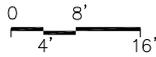
NOTES:

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**

CHAPTER 6: HIGH SCHOOL

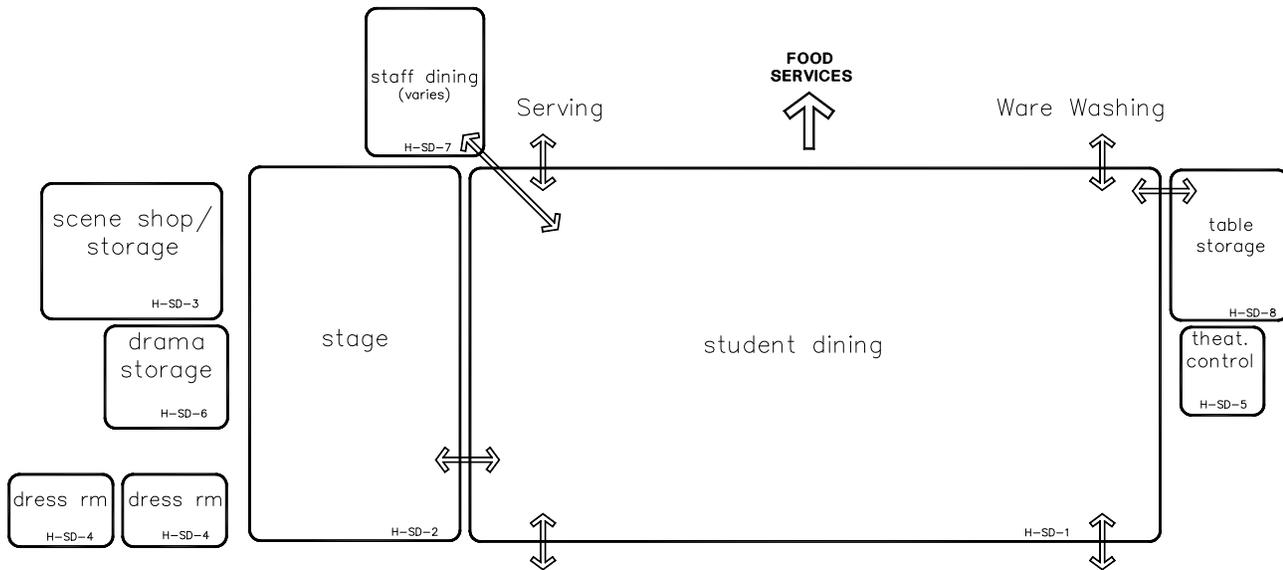
<u>FINISHES</u> <sup>1</sup> :	Spec. Ref.#	<u>FEATURES:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Linoleum,	096516	F1 4'-16' of chalk/marker board	101100
ET, sheet vinyl, rubber, or	096500	F2 4'-8' of tack board	101100
fluid-applied athletic flooring	096766	F3 Mat hoist (optional)	116623
Base:		F4 Safety wall wainscot	116623
Resilient base	096500	<u>Fire Suppression:</u>	
		Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Painted exposed structure	099100	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 Wrestling mat		High intensity discharge lighting: or 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	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.

## STUDENT DINING SPACES H-SD

### CHAPTER 6: HIGH SCHOOL



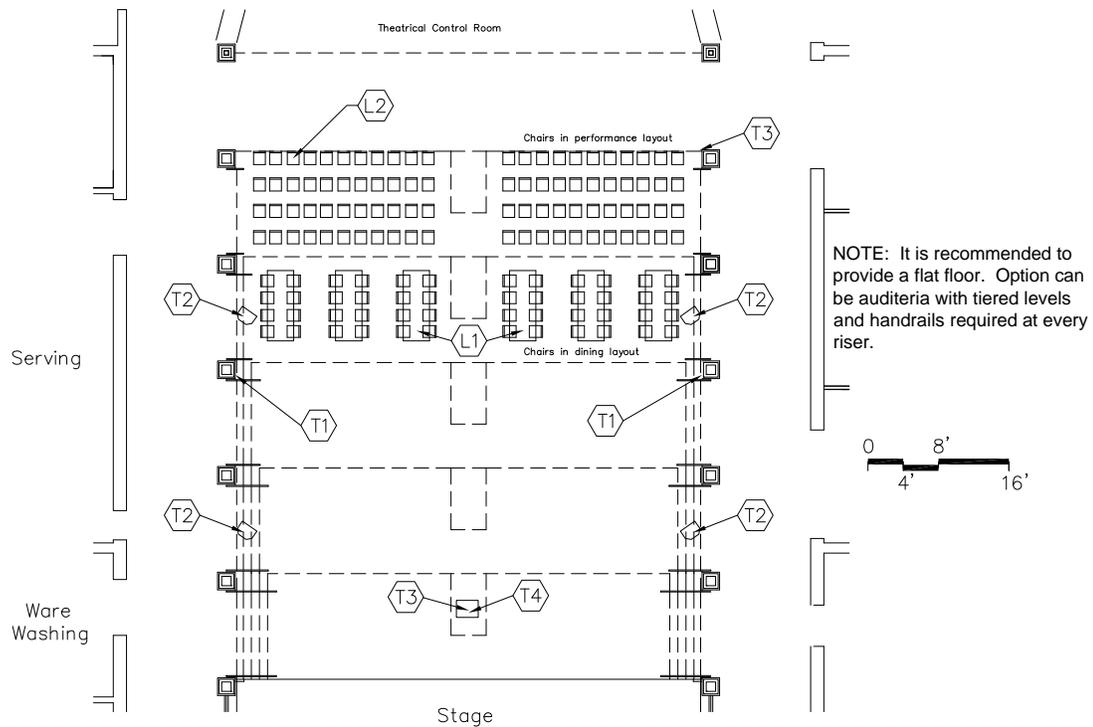
#### NOTES:

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

Following are the Student Dining space plates:

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

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**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.

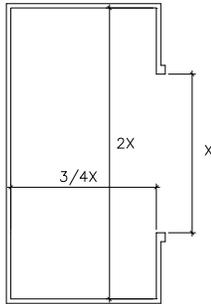
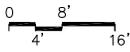
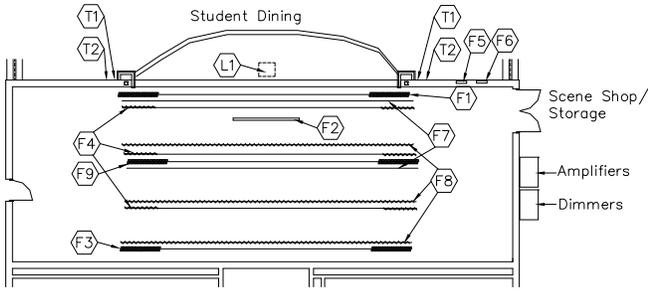
**STUDENT DINING**  
**H-SD-1**

## CHAPTER 6: HIGH SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<b>Flooring:</b>		<b>Fixed Items:</b>	
Linoleum, rubber, ET,	096500	N/A	
sheet vinyl, porcelain tile,	096516		
polished concrete finishing,	033510	<b>Fire Suppression:</b>	
or colored concrete finishing	033519	Fire suppression system	211000
<b>Base:</b>		<b>Plumbing:</b>	
Resilient base	096500	N/A	
Option: Porcelain tile base	093000		
<b>Ceiling<sup>3</sup>:</b>		<b>HVAC:</b>	
Suspended, acoustical	095113	Supply/return air system	Div. 23
Painted exposed structure	099100	Independent temperature control	230923
Reflector panels	098000	<b>Electrical:</b>	
<b>Walls:</b>		High intensity discharge lighting	265100
Painted concrete masonry units	042000/099100	or fluorescent lighting	
Diffusing block on 2 walls		Dimmable quartz lighting	265100
(minimum) or	042000	Theatrical lighting	265561
Acoustic treatment	098000	Illumination level: see table 8600-4	
(varies with geometry of room)		Multilevel switching with dimming	262726
		6 duplex receptacles	262726
		Double duplex receptacle adjacent to	
		each data and video port	262726
		Emergency lighting per code	265100
		Means of egress lighting per code	265100
		Telecommunications Grounding	270526/260526
<b>LOOSE FURNISHINGS:</b>		<b>Communications:</b>	
L1 Tables		T1 2 voice ports	271513/273113
L2 Folding or high-density stack chairs		T2 2 video ports	271533/271543
for large assembly use		T3 2 data ports (minimum)	271513
Waste receptacles		Clocks	275313
Recycling bins		Central sound system	275123
Carts for chairs		Student dining/auditeria sound system	275121
		T4 Overhead projector	274119
		<b>Electronic Safety and Security:</b>	
		Life safety devices per code	283111
		<b>Miscellaneous:</b>	
		Windows with interior blinds or	081113 /
		Windows with shading devices (optional)	088000

**NOTES:**

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



ASPECT RATIO OF STAGE

**Proportions are recommended – not mandatory.**

CAPACITY: N/A  
 SIZE: Based on student capacity  
 x = proscenium opening  
 See diagram for dimension

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

**PROGRAM ACTIVITIES:**

- Stage acting
- Musical performances
- Presentations

**SPATIAL RELATIONSHIPS:**

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

**ENVIRONMENTAL CONSIDERATIONS:**

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

**NOTES:**

**STAGE  
H-SD-2**
**CHAPTER 6: HIGH SCHOOL**

<u>FINISHES</u> <sup>1</sup> :	Spec. Ref.#	<u>FEATURES</u> <sup>1</sup> :	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, <b>carpet tile</b> , rubber, or wood	<b>096816</b> <b>096813</b>	F2 Projection screen	116143
		F3 Rear curtain with track	116143
		F4 Leg curtains, tracks, and/or pivots	116143
<u>Base:</u>		F5 Sound control console receptacle	275121
Ventilated resilient base	096400	F6 Lighting control console receptacle	265100
		F7 Light pipe	116143
<u>Ceiling:</u>		F8 Border curtains	116143
Painted exposed structure	099100	F9 Mid-stage traveler	116143
		<u>Fire Suppression:</u>	
<u>Walls:</u>		Fire suppression system	211000
Painted concrete masonry units	042000/099100	<u>Plumbing:</u>	
		N/A	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Podium		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 <sup>2</sup>	275121
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

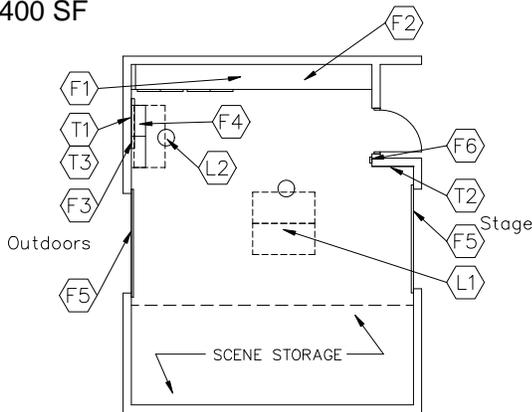
**NOTES:**

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.

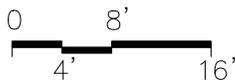
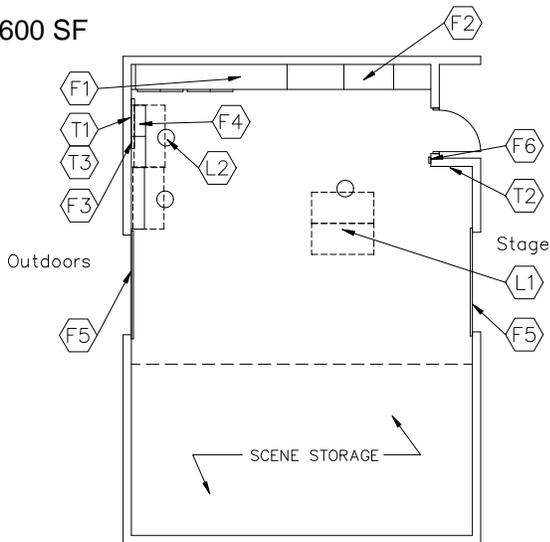
**SCENE SHOP AND STORAGE  
H-SD-3**

CHAPTER 6: HIGH SCHOOL

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**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items<sup>2</sup>:</u>	
<b>Cure and seal</b> concrete	033000	F1 9'-22' of tall storage cabinets	123550
		F2 5'-10' of wall cabinets (optional)	123550
Base:		F3 4' of tack board	101100
Resilient base	096500	F4 5'-10' base cabinet with work counter	123550
Ceiling:		F5 (2) 8' wide x 10' high overhead door	083613
Painted exposed structure	099100	F6 Pencil sharpener support	062000
Walls:		<u>Fire Suppression:</u>	
Painted concrete masonry units	042000/099100	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	

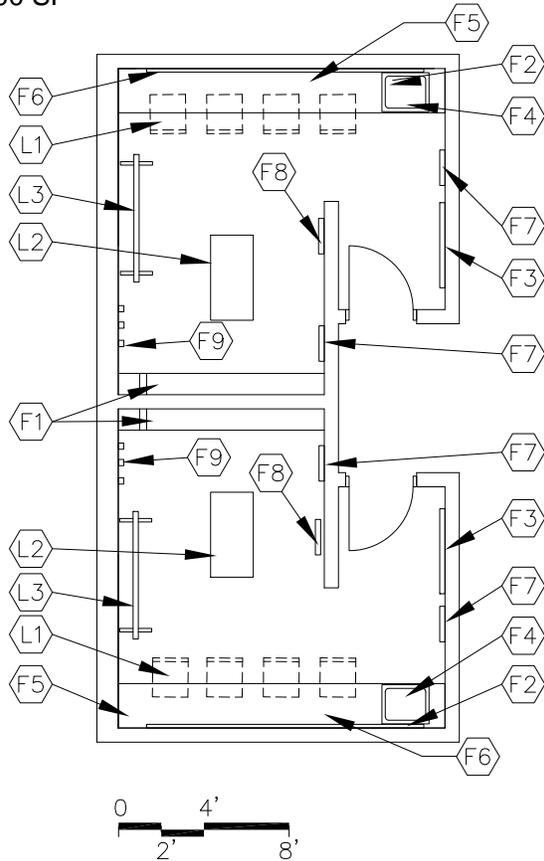
NOTES:

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

**MAKEUP/DRESSING ROOMS  
H-SD-4**

CHAPTER 6: HIGH SCHOOL

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.

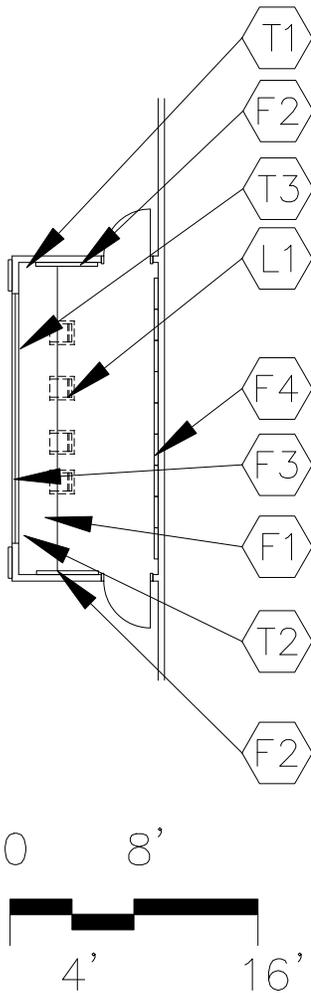
**MAKEUP/DRESSING ROOMS**  
**H-SD-4**

## CHAPTER 6: HIGH SCHOOL

	Spec. Ref.#	<u>FEATURES:</u> <u>Fixed Items:</u>	Spec. Ref.#
<b><u>FINISHES</u><sup>1</sup>:</b>			
<b>Flooring:</b>			
Linoleum,	096516	F1 6'-16' of costume	
ET, sheet vinyl, rubber, or	096500	storage cabinets	123550
Polished concrete finishing,	033510	F2 Towel dispenser (optional)	102813
or colored concrete finishing	033519	F3 4'-8' of tack board	101100
		F4 3' sink base cabinet	123550
		F5 8'-13' of work surface	123550
<b>Base:</b>			
Resilient base, or	096500	F6 48" high makeup mirrors -	
integral vinyl cove base		full length of work surface	088300
		F7 2 minimum 20" wide x 60" high	
		dressing mirrors	088300
<b>Ceiling:</b>			
Suspended, acoustical	095113	F8 Shallow wall cabinet for makeup	123550
		(optional)	
		F9 Coat hooks	102813
<b>Walls:</b>			
Painted concrete masonry units	042000/099100	<b><u>Fire Suppression:</u></b>	
		Fire suppression system	211000
		<b><u>Plumbing:</u></b>	
		Sink	224000
		Plumbing connections	224000/221116/221119
		<b><u>HVAC:</u></b>	
		Supply/return air system	Div. 23
		Independent temperature control	230923
		<b><u>Electrical:</u></b>	
		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
		<b><u>Communications:</u></b>	
		Clock	275313
		Student Dining/Auditeria sound system	275121
		Central sound system	275123
		<b><u>Electronic Safety and Security:</u></b>	
		Life safety devices per code	283111
		<b><u>Miscellaneous:</u></b>	
		N/A	

**NOTES:**

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



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

**PROGRAM ACTIVITIES:**

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

**SPATIAL RELATIONSHIPS:**

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

**ENVIRONMENTAL CONSIDERATIONS:**

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

**NOTES:**

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

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

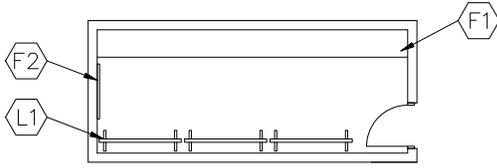
CHAPTER 6: HIGH SCHOOL

	Spec. Ref.#	FEATURES: <u>Fixed Items:</u>	Spec. Ref.#
<b><u>FINISHES</u><sup>1</sup>:</b>			
<b>Flooring:</b>			
Linoleum,	096516	F1 10'-20' of equipment/work surface	123550
ET, sheet vinyl, rubber,	096500	F2 4'-8' of tack board	101100
polished concrete finishing,	033510	F3 Operable window (optional)	085113
or colored concrete finishing	033519	F4 Acoustic wall treatment (optional)	098000
<b>Base:</b>			
Resilient base	096500	<b><u>Fire Suppression:</u></b> Fire suppression system	211000
<b>Ceiling:</b>			
Suspended, acoustical	095113	<b><u>Plumbing:</u></b> N/A	
<b>Walls:</b>			
Painted gypsum wallboard	042000/099100	<b><u>HVAC:</u></b> Supply/return air system	Div. 23
Acoustical wall treatment	098000	Independent temperature control	230923
<b><u>LOOSE FURNISHINGS:</u></b>			
L1 Chairs		<b><u>Electrical:</u></b> 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
		<b><u>Communications:</u></b>	
		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
		<b><u>Electronic Safety and Security:</u></b>	
		Life safety devices per code	283111
		<b><u>Miscellaneous:</u></b> N/A	

**NOTES:**

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

200 SF



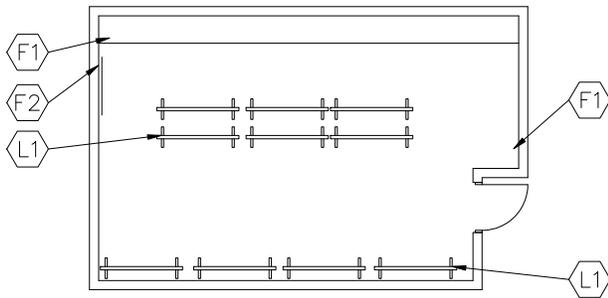
**PROGRAM ACTIVITIES:**

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

**SPATIAL RELATIONSHIPS:**

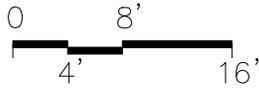
- Near scene shop/storage
- Near stage
- Near auditeria/student dining

600 SF



**ENVIRONMENTAL CONSIDERATIONS:**

- Uniform lighting



CAPACITY: N/A  
 SIZE: 200 – 1,000 SF

**NOTES:**

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

**DRAMA STORAGE  
H-SD-6**

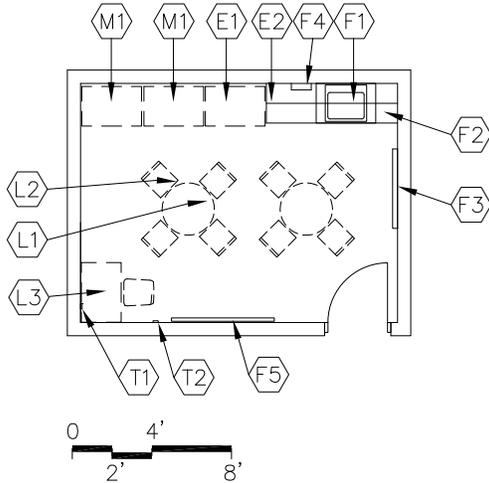
CHAPTER 6: HIGH SCHOOL

<u>FINISHES</u> <sup>1</sup> :	Spec. Ref.#	<u>FEATURES</u> :	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Polished concrete finishing, or	033510	F1 10'-22' of costume storage cabinets	123550
colored concrete finishing	033519	F2 4' of tack board (optional)	101100
<u>Base:</u>		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
<u>Ceiling:</u>		<u>Plumbing:</u>	
Suspended, acoustical	095113	N/A	
<u>Walls:</u>		<u>HVAC:</u>	
Painted concrete masonry units	042000/099100	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



**PROGRAM ACTIVITIES:**

- Space for staff dining

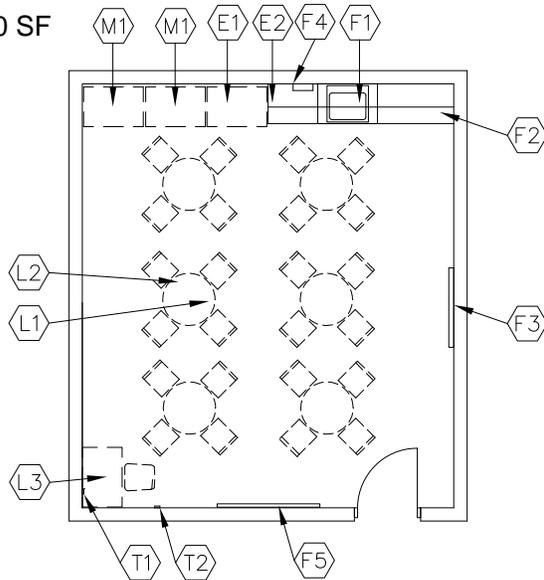
**SPATIAL RELATIONSHIPS:**

- Near student dining
- Near food services

**ENVIRONMENTAL CONSIDERATIONS:**

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

900 SF



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

**NOTES:**

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

**STAFF DINING**  
**H-SD-7**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Linoleum, rubber, ET,	096500	F1 3' sink base cabinet with wall cabinet	123550
sheet vinyl, or porcelain tile	096516	F2 About 8' of base and wall cabinets	123550
	093000	F3 4' of tack board	101100
		F4 Towel dispenser	102813
<u>Base:</u>		F5 4'-6' of marker board (optional)	101100
Resilient base	096500		
Optional: porcelain tile base	093000	<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>Ceiling:</u>		<u>Plumbing:</u>	
Suspended, acoustical	095113	Sink	224000
		Plumbing connections	224000/221116/221119
<u>Walls:</u>		<u>HVAC:</u>	
Painted, concrete masonry units	042000/099100	Supply/return air system	Div. 23
		Independent temperature control	230923
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
L1 Tables		Single level switching	262726
L2 Chairs		Fluorescent lighting	265100
L3 Computer workstation		Illumination level: See Table 8600-4	
Waste receptacle		4 duplex receptacles	262726
<u>EQUIPMENT:</u>		Double duplex receptacle adjacent to	
E1 Refrigerator		each video port	262726
E2 Microwave		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	

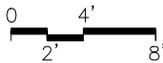
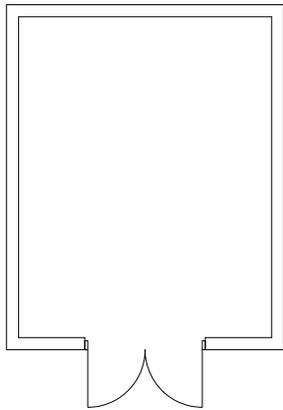
**NOTES:**

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

**TABLE STORAGE  
H-SD-8**

CHAPTER 6: HIGH SCHOOL

400 SF



**PROGRAM ACTIVITIES:**

- Storage for tables and chairs

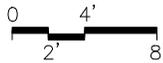
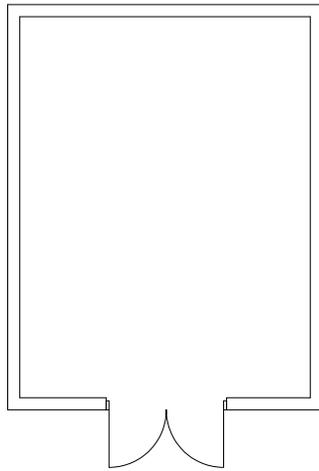
**SPATIAL RELATIONSHIPS:**

- Adjacent to student dining
- Near food services

**ENVIRONMENTAL CONSIDERATIONS:**

- Uniform lighting

700 SF



CAPACITY:

SIZE:

ANCILLARY SPACES:

N/A  
400 - 700 SF  
Student Dining  
H-SD-1

NOTES:

**TABLE STORAGE  
H-SD-8**

CHAPTER 6: HIGH SCHOOL

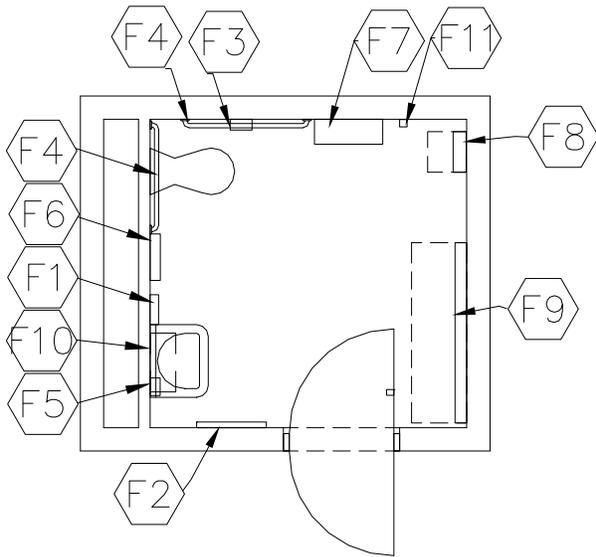
<u>FINISHES</u> <sup>1</sup> :	Spec. Ref.#	<u>FEATURES</u> <sup>1</sup> :	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
<b>Cure and seal</b> concrete	093000	N/A	
Base:		<u>Fire Suppression:</u>	
No base		Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Exposed structure		N/A	
Option: Rated gypsum 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.

**FAMILY RESTROOM**  
**H-SD-9**

CHAPTER 6: HIGH SCHOOL



**PROGRAM ACTIVITIES:**

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

**SPATIAL RELATIONSHIPS:**

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

**ENVIRONMENTAL CONSIDERATIONS:**

- 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:

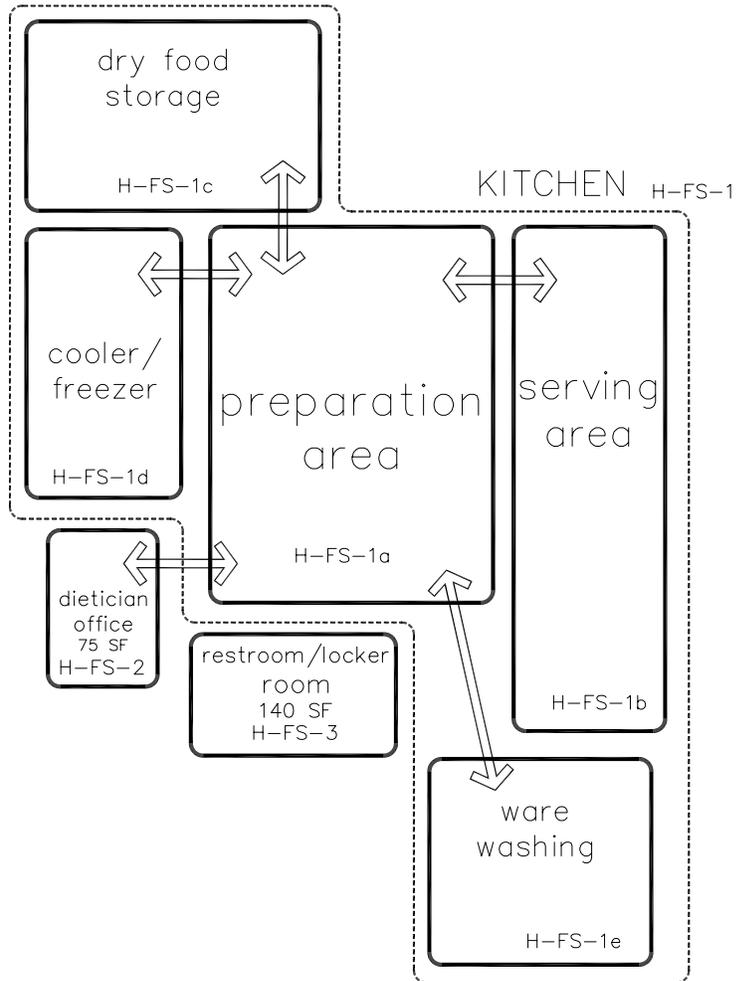
**FAMILY RESTROOM  
H-SD-9**

## CHAPTER 6: HIGH SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Linoleum, rubber, sheet vinyl,	096516	F1 Towel dispenser	102813
<b>ceramic mosaic tile</b> , or ET	096500	F2 24" x 60" mirror	102813
Optional: Ceramic mosaic tile,	093000	F3 Toilet tissue holder	102813
porcelain tile, or	096723	F4 36" and 42" grab bar	102813
resinous flooring		F5 Soap dispenser	102813
		F6 Sanitary napkin dispenser/disposal	102813
<u>Base:</u>		F7 Folding utility shelf	102813
Resilient base	096500	F8 Mounted child seat	102813
Optional: Ceramic mosaic tile,	093000	F9 Adult/child changing station	102813
porcelain tile, resinous flooring	096723	F10 16" x 24" mirror with shelf	102813
flooring, or integral vinyl cove base		F11 Coat hooks	102813
		<u>Fire Suppression:</u>	
<u>Ceiling:</u>		Fire suppression system	211000
Suspended, acoustical	095113		
		<u>Plumbing:</u>	
<u>Walls:</u>		Wall-mounted water closet	224000
Painted concrete masonry units	042000/099100	Wall-mounted lavatory	224000
		Plumbing connections	224000/221116/221119
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
Wastebasket		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		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.

**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	<b>Restroom/Locker Room</b>

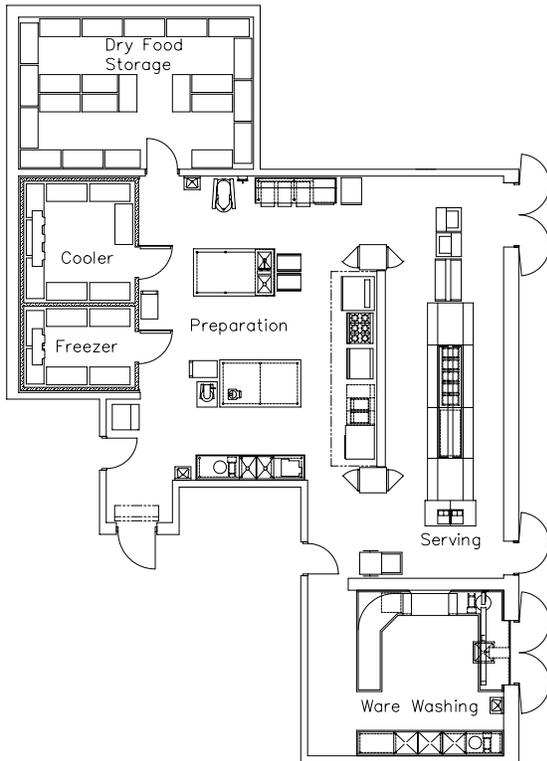
## KITCHEN H-FS-1

CHAPTER 6: HIGH SCHOOL

This space consists of various areas:

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

A space plate follows for each of these areas.



CAPACITY: 3 – 10 persons  
 SIZE: Student capacity multiplied by 3.5 SF  
 per student  
 ANCILLARY SPACES: Student Dining  
 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.

**WARMING KITCHEN  
H-FS-0**

**CHAPTER 6: HIGH SCHOOL**

This space consists of various areas:

Production Area	25%
Serving Area	35%
Warewash	25%
Storage	10%
Receiving	5%

Additional areas to be added:

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

**PROGRAM ACTIVITIES:**

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

**SPATIAL RELATIONSHIPS:**

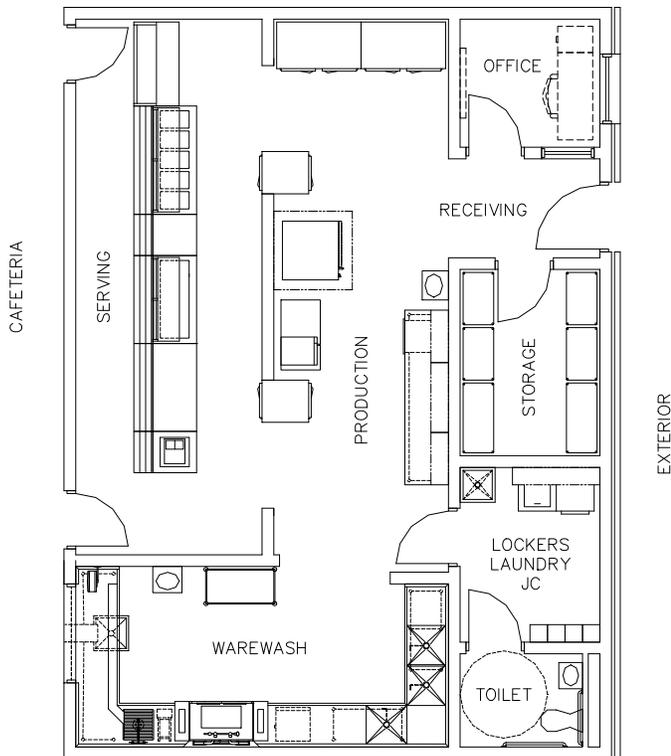
- Adjacent to student dining
- Near staff dining
- Near table storage
- Adjacent to loading/receiving area

**ENVIRONMENTAL CONSIDERATIONS:**

- Compliance with State Board of Health requirements

**MISCELLANEOUS:**

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



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

**NOTES:**

**WARMING KITCHEN  
H-FS-0**

CHAPTER 6: HIGH SCHOOL

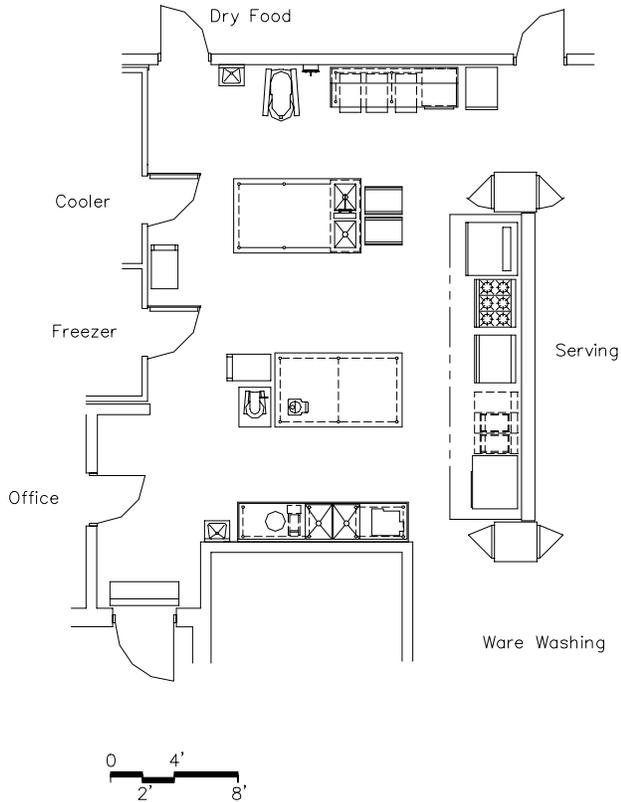
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Quarry tile	093000	Food service equipment	114000
Base:		<u>Fire Suppression:</u>	
Quarry tile base	093000	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Cleanable, suspended, 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	093000	Gas connections	226313
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	
		10 duplex receptacles	262726
		<b>Duplex receptacle at</b>	<b>262726</b>
		<b>each cash register</b>	
		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.

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

### CHAPTER 6: HIGH SCHOOL



#### 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**

CHAPTER 6: HIGH SCHOOL

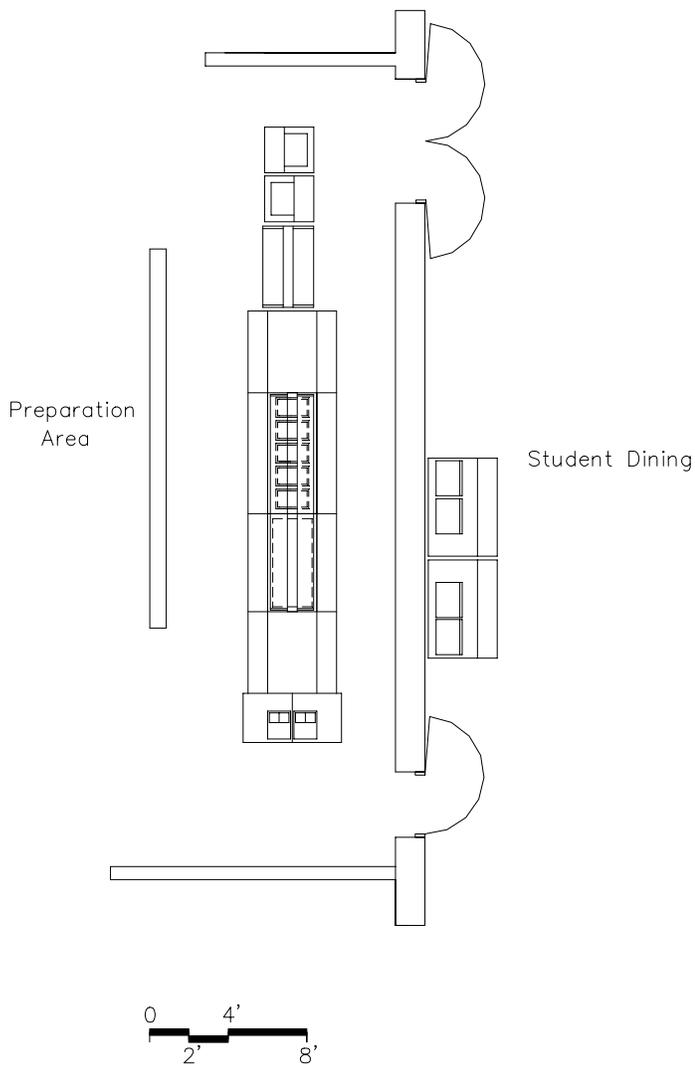
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Quarry tile	093000	Food service equipment	114000
Base:		<u>Fire Suppression:</u>	
Quarry tile base	093000	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Cleanable, suspended, acoustical	095113	Connections to food service equipment	224000
Walls:		Plumbing connections	224000/221116/221119
Epoxy-painted concrete masonry units	<b>042000</b> /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.

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

**CHAPTER 6: HIGH SCHOOL**



**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**

CHAPTER 6: HIGH SCHOOL

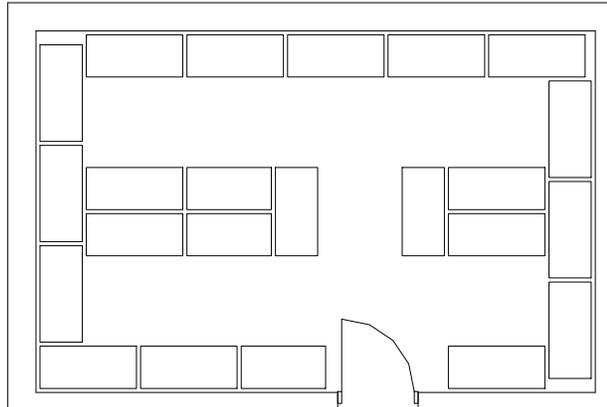
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		Fixed Equipment:	
Quarry tile	093000	Food service equipment	114000
Optional: porcelain tile			
Base:		<u>Fire Suppression:</u>	
Quarry tile base	093000	Fire suppression system	211000
Optional: porcelain tile base			
Ceiling:		<u>Plumbing:</u>	
Cleanable, suspended, acoustical	095113	Connections to food service equipment	224000
Walls:		<u>HVAC:</u>	
Epoxy-painted concrete masonry units	<b>042000</b> /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:

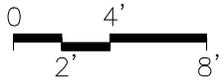
1. Finishes/Features: Refer to Chapter 9 for specification references and refer to Chapter 10 for a list of possible food service equipment.

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

**CHAPTER 6: HIGH SCHOOL**



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**

CHAPTER 6: HIGH SCHOOL

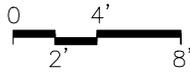
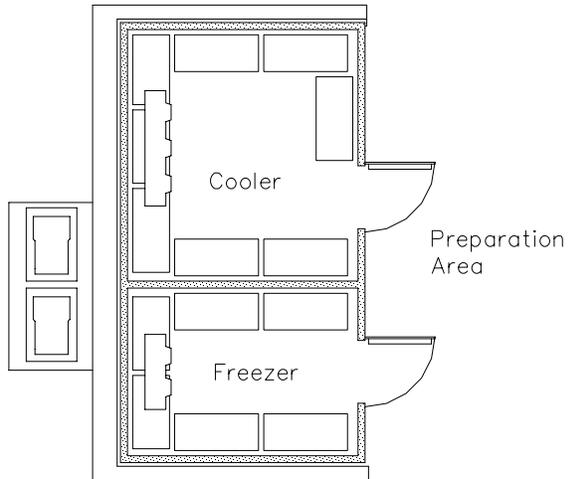
	Spec. Ref.#		Spec. Ref.#
<b><u>FINISHES</u><sup>1</sup>:</b>		<b><u>FEATURES</u><sup>1</sup>:</b>	
<b>Flooring:</b>		<b><u>Fixed Items:</u></b>	
Linoleum, <i>ET</i> , or sheet vinyl	096500	Food service equipment	114000
Option: Quarry tile	093000		
	096516	<b><u>Fire Suppression:</u></b>	
<b>Base:</b>		Fire suppression system	211000
Resilient base	096500		
Option: Quarry tile	093000	<b><u>Plumbing:</u></b>	
		N/A	
<b>Ceiling:</b>		<b><u>HVAC:</u></b>	
Cleanable, suspended, acoustical	095113	Exhaust air system	Div. 23
		Supply/return air system	Div. 23
<b>Walls:</b>		<b><u>Electrical:</u></b>	
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
<b><u>LOOSE FURNISHINGS:</u></b>		<b><u>Communications:</u></b>	
N/A		N/A	
		<b><u>Electronic Safety and Security:</u></b>	
		Life safety devices per code	283111
		<b><u>Miscellaneous:</u></b>	
		N/A	

**NOTES:**

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

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

CHAPTER 6: HIGH SCHOOL



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

**PROGRAM ACTIVITIES:**

- Space for refrigerated storage of perishable products

**SPATIAL RELATIONSHIPS:**

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

**ENVIRONMENTAL CONSIDERATIONS:**

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

**NOTES:**

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

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

CHAPTER 6: HIGH SCHOOL

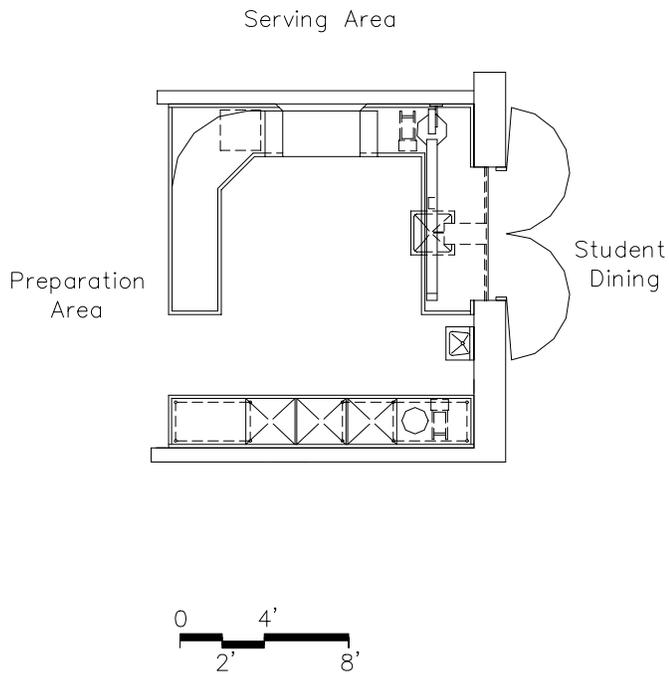
	Spec. Ref.#		Spec. Ref.#
<b><u>FINISHES<sup>1</sup>:</u></b>		<b><u>FEATURES<sup>1</sup>:</u></b>	
Flooring:		<b><u>Fixed Items:</u></b>	
Quarry tile	<b>093000</b>	Food service equipment	<b>114000</b>
Base:		<b><u>Fire Suppression:</u></b>	
Quarry tile base	<b>093000</b>	Fire <b>suppression</b> system	<b>211000</b>
Ceiling:		<b><u>Plumbing:</u></b>	
Manufactured insulated panel	<b>114000</b>	N/A	
Walls:		<b><u>HVAC:</u></b>	
Manufactured insulated panel	<b>114000</b>	Exhaust air system for compressors Div. <b>23</b>	
<b><u>LOOSE FURNISHINGS:</u></b>		<b><u>Electrical:</u></b>	
N/A		Single level switching	<b>262726</b>
		Incandescent lighting	<b>265100</b>
		Illumination level: See Table <b>8600-4</b>	
		Electrical connections to freezer/cooler refrigeration equipment	<b>262726</b>
		<b><u>Communications:</u></b>	
		N/A	
		<b><u>Electronic Safety and Security:</u></b>	
		N/A	
		<b><u>Miscellaneous:</u></b>	
		N/A	

**NOTES:**

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

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

### CHAPTER 6: HIGH SCHOOL



#### PROGRAM ACTIVITIES:

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

#### SPATIAL RELATIONSHIPS:

- Adjacent to student dining

#### ENVIRONMENTAL CONSIDERATIONS:

- 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.

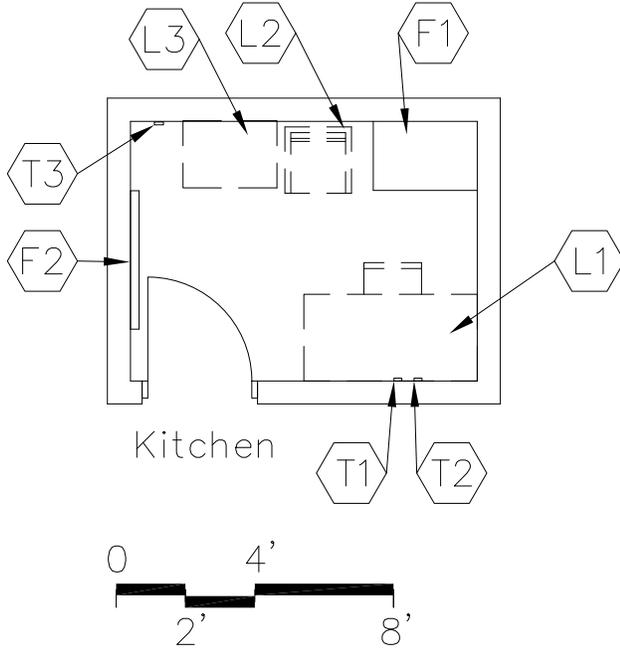
**KITCHEN - Ware Washing**  
**H-FS-1e**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</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	<b>042000</b> /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**

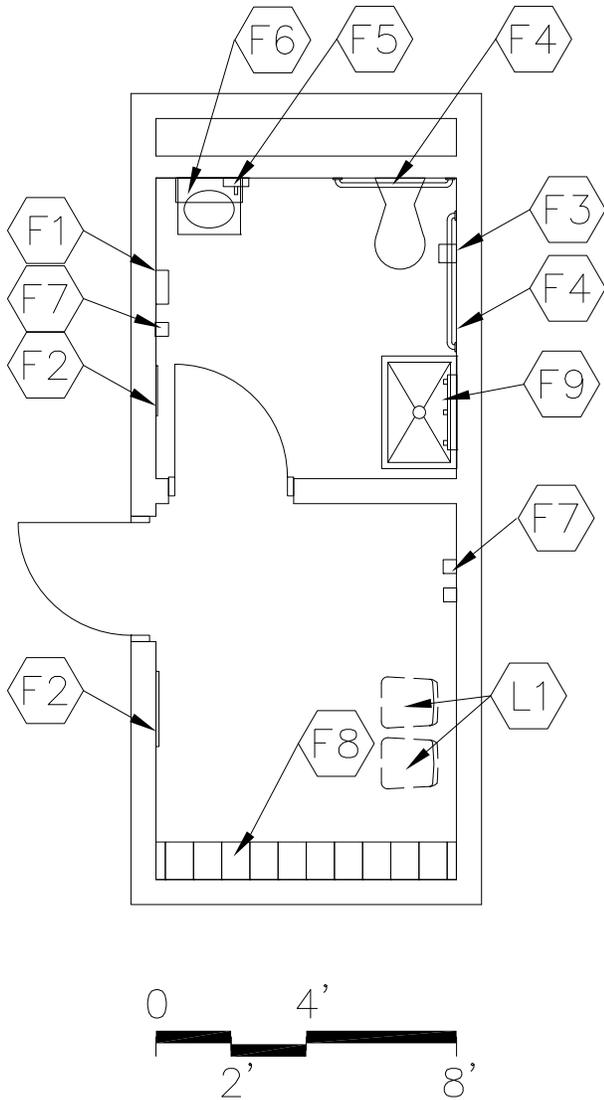
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<b>Flooring:</b>			
Linoleum, <i>ET</i> , or sheet vinyl	096500	<b>Fixed Items:</b>	
	096516	F1 2' of tall wardrobe (optional)	123550
Option: Quarry tile	093000	F2 4' of tack board	101100
<b>Base:</b>			
Resilient base	096500	<b>Fire Suppression:</b>	
Option: Quarry tile	093000	Fire suppression system	211000
<b>Ceiling:</b>			
Suspended, acoustical	095113	<b>Plumbing:</b>	
N/A			
<b>Walls:</b>			
Painted concrete masonry units	042000/099100	<b>HVAC:</b>	
		Supply/return air system	Div. 23
		Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
<b>LOOSE FURNISHINGS:</b>			
L1 Desk and chair		<b>Electrical:</b>	
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
<b>Communications:</b>			
		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
<b>Electronic Safety and Security:</b>			
		Life safety devices per code	283111
<b>Miscellaneous:</b>			
		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.

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

CHAPTER 6: HIGH SCHOOL



CAPACITY: 2 persons  
 SIZE: 140 SF  
 ANCILLARY SPACES:

**PROGRAM ACTIVITIES:**

- Personal and health needs for food service staff

**SPATIAL RELATIONSHIPS:**

- Adjacent to **kitchen**

**ENVIRONMENTAL CONSIDERATIONS:**

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

**NOTES:**

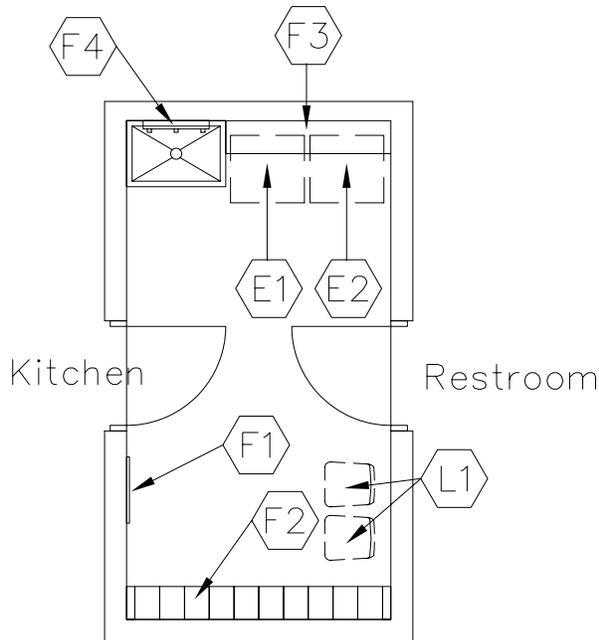
**RESTROOM / LOCKER ROOM  
H-FS-3**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES</u> <sup>1</sup> :	Spec. Ref.#	<u>FEATURES</u> <sup>1</sup> :	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Linoleum, <i>ET</i> , sheet vinyl,	096516	F1 Towel dispenser	102813
rubber, rubber tile,	096500	F2 <b>2</b> , 24" x 60" mirrors	102813
Optional: quarry tile	093000	F3 Toilet tissue holder	102813
		F4 36" and 42" grab bar	102813
		F5 Soap dispenser	102813
<u>Base:</u>		F6 Mirror with shelf above sink(optional)	102813
Resilient base	096500	F7 Coat hooks	102813
Optional: quarry tile, or	093000	<b>F8 Lockers 12" x 12" x 60"</b>	<b>105113</b>
integral vinyl cove base		<b>F9 Mop holder</b>	<b>102813</b>
		<u>Fire Suppression:</u>	
<u>Ceiling:</u>		Fire suppression system	211000
Suspended, acoustical	095113		
		<u>Plumbing:</u>	
<u>Walls:</u>		Wall-mounted water closet	224000
Painted concrete masonry units	042000/099100	Wall-mounted lavatory	224000
		<b>Floor service sink</b>	<b>224000</b>
		Plumbing connections	224000/221116/221119
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
<b>L1 Chairs</b>		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	
		<b>2</b> duplex receptacles	262726
		<u>Communications:</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

**NOTES:**

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



**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**

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

**NOTES:**

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

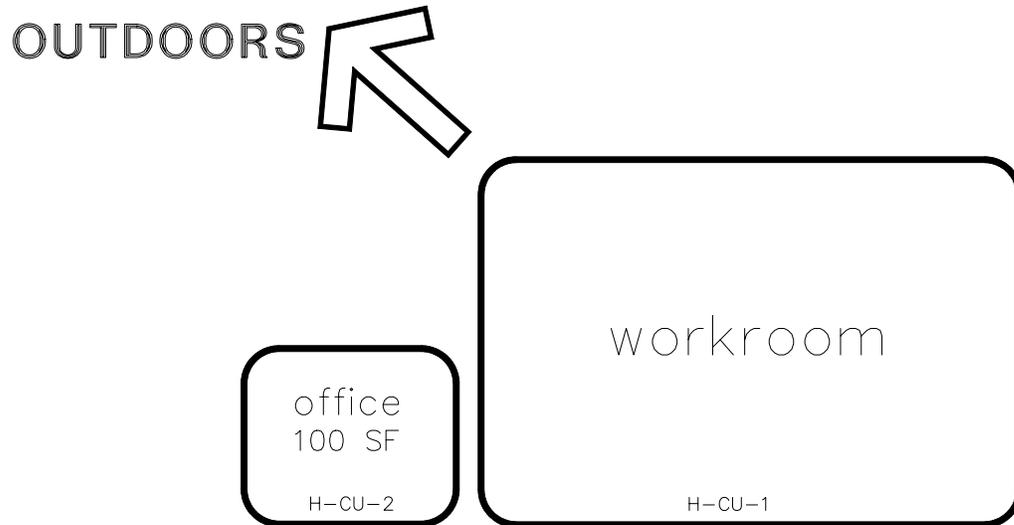
**LOCKER ROOM  
H-FS-4**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</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	<b>042000/099100</b>	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:

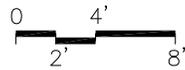
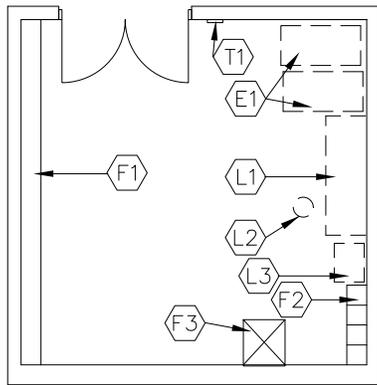
This is an example of how the custodial spaces in a high school could be arranged. This is meant only to demonstrate the relationships between various spaces of this area.

Following are the Custodial space plates:

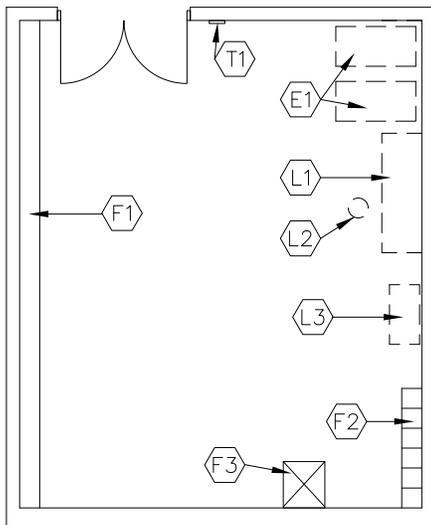
H-CU-1	Workroom
H-CU-2	Custodial Office

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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:**

- Near central storage area
- Near custodial office

**ENVIRONMENTAL CONSIDERATIONS:**

- Uniform lighting

**NOTES:**

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

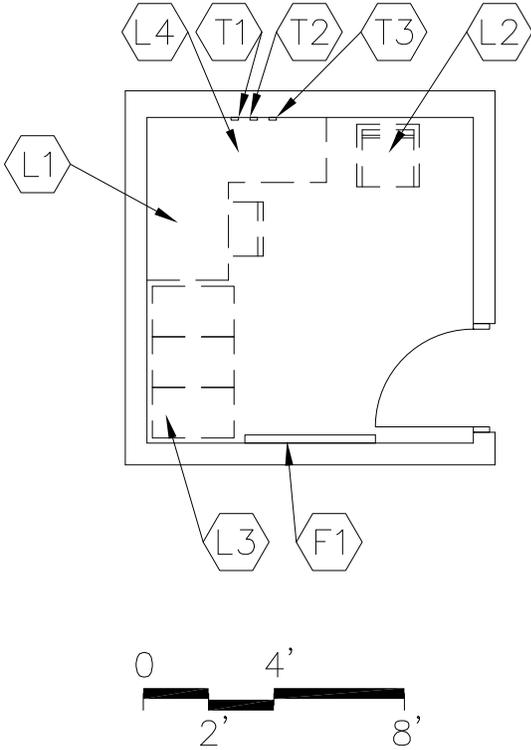
**WORKROOM  
H-CU-1**
**CHAPTER 6: HIGH SCHOOL**

<u>FINISHES<sup>1</sup>:</u>	Spec. <u>Ref.#</u>	<u>FEATURES<sup>1</sup>:</u>	Spec. <u>Ref.#</u>
<u>Flooring:</u>		<u>Fixed Items<sup>2</sup>:</u>	
<b><i>Polished concrete finishing, or colored concrete finishing</i></b>	<b>033510 033519</b>	F1 10' - 24' of open shelving, depths can vary (fixed or loose)	123550
<u>Base:</u>		F2 4 - 6 lockers	105113
Resilient base	096500	F3 Mop holder	102813
<u>Ceiling:</u>		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
<u>Walls:</u>		<u>Plumbing:</u>	
Painted concrete masonry units	042000/099100	Floor service sink	224000
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Workbench		Supply/return air system	Div. 23
L2 Stool		Independent temperature control	230923
L3 Tool cabinet		<u>Electrical:</u>	
Waste receptacles		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		Single level switching	262726
		4 duplex receptacles (minimum)	262726
		Electrical receptacles for custodial equipment	262726
<u>EQUIPMENT:</u>		<u>Communications:</u>	
E1 Recycling bins		T1 1 voice port and phone	271513/273113
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

**NOTES:**

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

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:  
SIZE:N/A  
100 - 400 SFNOTES:

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

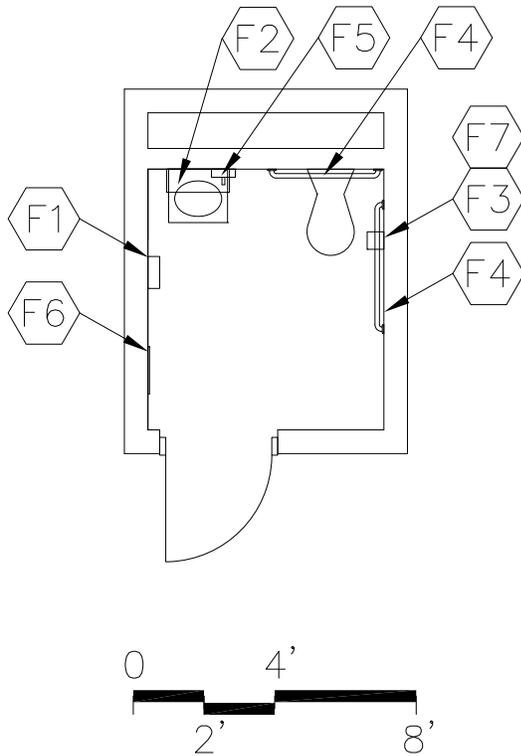
**CUSTODIAL OFFICE  
H-CU-2**

CHAPTER 6: HIGH SCHOOL

	Spec. Ref.#		Spec. Ref.#
<b><u>FINISHES<sup>1</sup>:</u></b>		<b><u>FEATURES<sup>1</sup>:</u></b>	
<b>Flooring:</b>		<b><u>Fixed Items:</u></b>	
Linoleum,	096500	F1 4' of tack board (optional)	101100
ET, sheet vinyl,	096516		
polished concrete finishing, or	033510	<b><u>Fire Suppression:</u></b>	
colored concrete finishing	033519	Fire suppression system	211000
<b>Base:</b>		<b><u>Plumbing:</u></b>	
Resilient base	096500	N/A	
<b>Ceiling:</b>		<b><u>HVAC:</u></b>	
Suspended, acoustical	095113	Supply/return air system	Div. 23
		Independent temperature control	230923
		(coupled with similarly loaded	
		adjacent spaces)	
<b>Walls:</b>		<b><u>Electrical:</u></b>	
Painted concrete masonry units	042000/099100	Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to	
		data and modem port	262726
<b><u>LOOSE FURNISHINGS:</u></b>		<b><u>Communications:</u></b>	
L1 Desk and chair		T1 Modem port for temperature	
L2 Visitor chair		controls computer	271523
L3 File cabinets		T2 1 voice port and phone	271513/273113
L4 Computer desk return		T3 1 data port near workstation	271513
Wastebasket		Central sound system	275123
		Clock	275313
		<b><u>Electronic Safety and Security:</u></b>	
		Life safety devices per code	283111
		<b><u>Miscellaneous:</u></b>	
		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.



CAPACITY:  
SIZE:  
ANCILLARY SPACES:

1 person  
**60 SF**

**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

**NOTES:**

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

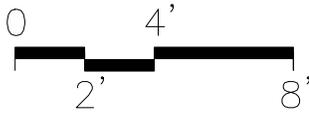
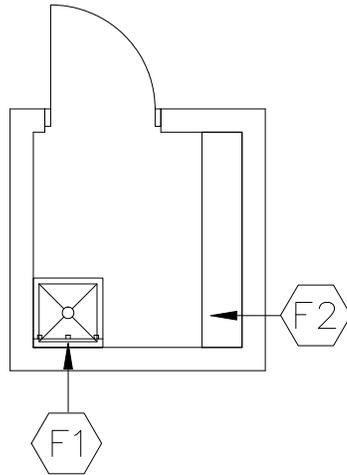
**RESTROOM  
H-BS-10**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<b>Flooring:</b>		<b><u>Fixed Items:</u></b>	
Linoleum, <i>ET</i> , sheet vinyl, or rubber	096516 096500	F1 Towel dispenser	102813 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
<b>Base:</b>		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		
		<b><u>Fire Suppression:</u></b>	
		Fire suppression system	211000
<b>Ceiling:</b>		<b><u>Plumbing:</u></b>	
Suspended, acoustical	095113	Wall-mounted water closet	224000
		Wall-mounted lavatory	224000
<b>Walls:</b>		Plumbing connections	224000/221116/221119
Painted concrete masonry units	042000/099100		
		<b><u>HVAC:</u></b>	
		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
<b><u>LOOSE FURNISHINGS:</u></b>		<b><u>Electrical:</u></b>	
Wastebasket		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-10	
		1 duplex receptacle	262726
		<b><u>Communications:</u></b>	
		Central sound system	275123
		<b><u>Electronic Safety and Security:</u></b>	
		Life safety devices per code	283111
		<b><u>Miscellaneous:</u></b>	
		N/A	

**NOTES:**

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



**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**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Cure and seal concrete	033000	F1 Mop holder	102813
		F2 Fixed or loose shelving (optional)	123550
Base:		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Cleanable, suspended, acoustical	095113	Service sink or floor drain sink	224000
Walls:		Plumbing connections	224000/221116/221119
Painted concrete masonry units	042000/099100	<u>HVAC:</u>	
		Exhaust air system	Div. 23
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
Shelving (optional)		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	

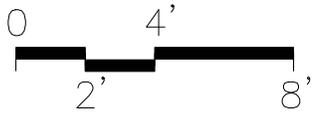
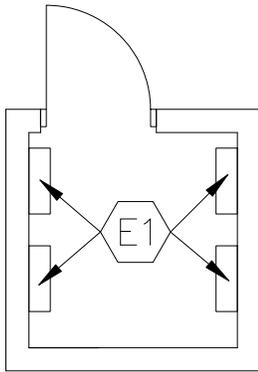
**NOTES:**

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

**ELECTRICAL CLOSET  
H-BS-3**

CHAPTER 6: HIGH SCHOOL

**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**

CHAPTER 6: HIGH SCHOOL

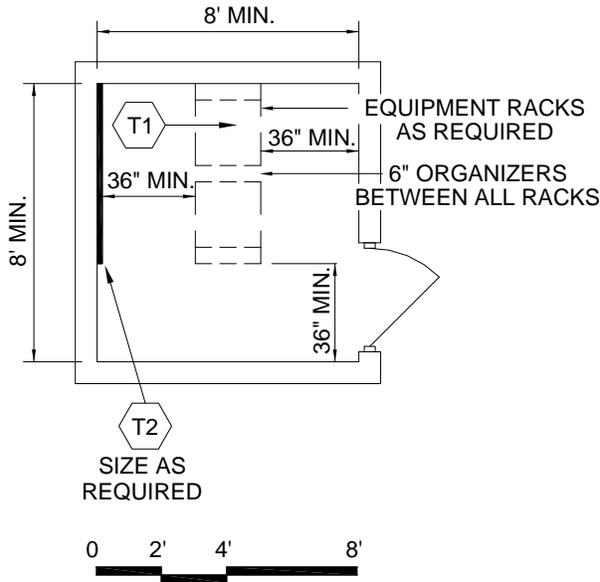
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
<b><i>Cure and seal</i></b> concrete	033000	N/A	
Base:		<u>Fire Suppression:</u>	
No base		Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Exposed structure	---	N/A	
Walls:		<u>HVAC: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

NOTES:

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

**TELECOMMUNICATIONS ROOM  
H-BS-4**

CHAPTER 6: HIGH SCHOOL



**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>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
<b>Polished concrete finishing, or</b>	<b>033510</b>	N/A	
<b>colored concrete finishing</b>	<b>033519</b>		
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	

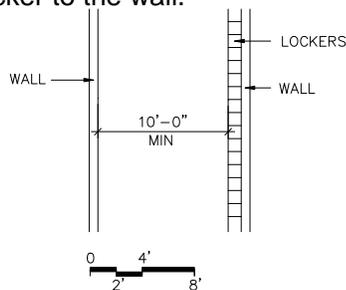
**NOTES:**

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

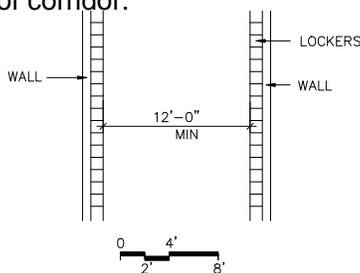
## CORRIDORS H-BS-5

### CHAPTER 6: HIGH SCHOOL

- 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**

## CHAPTER 6: HIGH SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring<sup>2</sup>:</u>		<u>Fixed Items:</u>	
Linoleum, ET, sheet vinyl,	096516	Corridor lockers	105113
Carpet, <b>carpet tile</b> , or rubber	096500	Fire extinguishers and cabinets	104400
	096816	Recessed vinyl floor mats or	
	<b>096813</b>	surface mats	124813
		Tack board or tackable wall surface	101100
<u>Base:</u>		<u>Fire Suppression:</u>	
Resilient base	096500	N/A	
Optional: structural glazed tile	042000		
<u>Ceiling:</u>		<u>Plumbing:</u>	
Suspended, acoustical	095113	Drinking water coolers	224000
Option in vestibules: Abuse resistant			
gypsum wallboard	092116		
<u>Walls:</u>		<u>HVAC:</u>	
Painted concrete masonry units		Supply/return air system	Div. 23
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
NOTE: At entries adjacent to dining/ commons area, match dining/commons flooring.		<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	

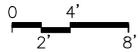
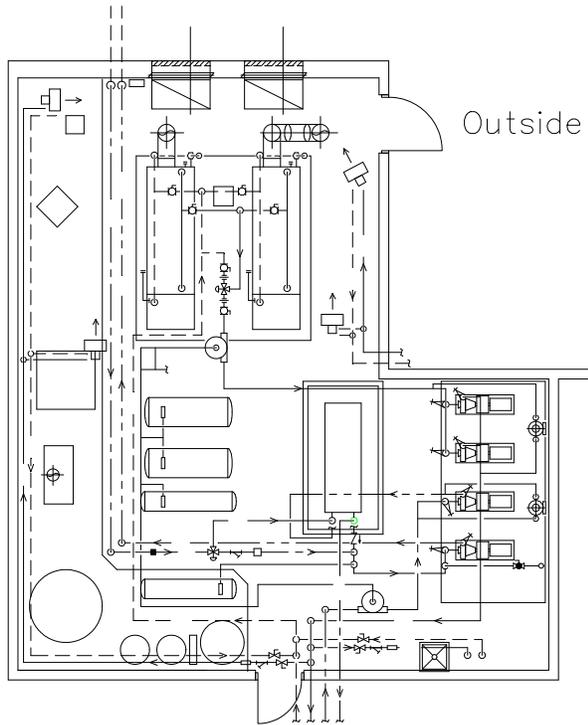
NOTES:

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

**MECHANICAL/ELECTRICAL SPACE/DECKS**  
**H-BS-6**

**CHAPTER 6: HIGH SCHOOL**

**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**

CHAPTER 6: HIGH SCHOOL

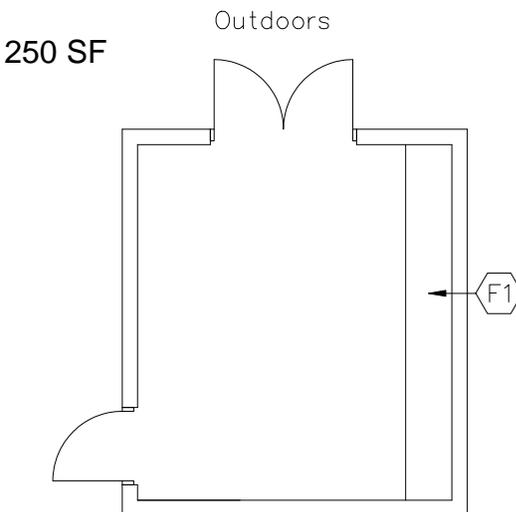
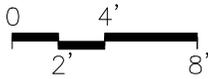
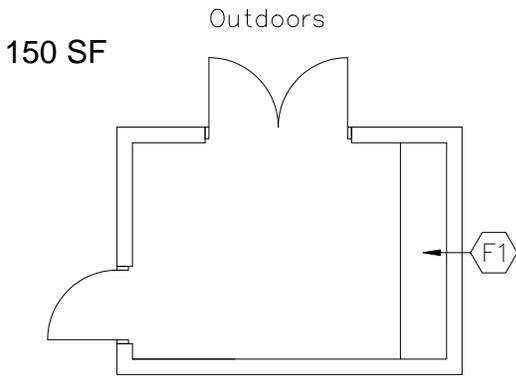
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
<b>Cure and seal</b> concrete	033000	To be determined by Design Professional	
Base:		<u>Fire Suppression:</u>	
No base		To be determined by Design Professional	
Ceiling:		<u>Plumbing:</u>	
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.

**STORAGE AREA  
H-BS-7**

**CHAPTER 6: HIGH SCHOOL**



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**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items<sup>2</sup>:</u>	
<b>Cure and seal</b> 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:

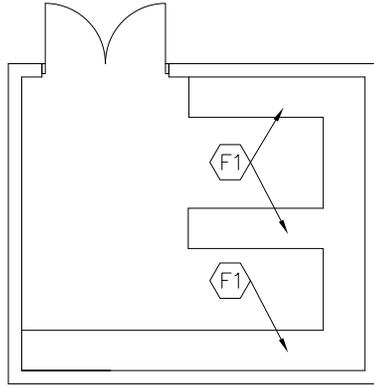
1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Ranges shown indicate quantities for the smallest and largest possible room size.

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

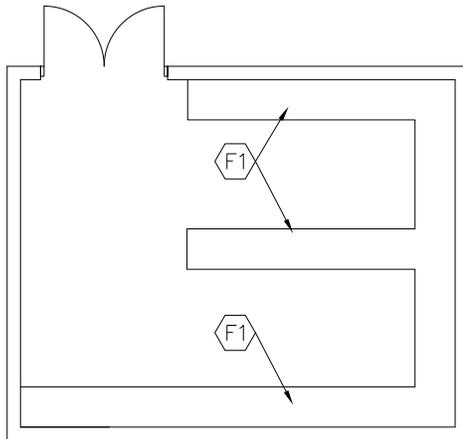
CHAPTER 6: HIGH SCHOOL

**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**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items<sup>2</sup>:</u>	
<b>Cure and seal</b> concrete	033000	F1 26' - 32' of open shelving (total), depths may vary (fixed or loose)	123550
Base:		Option: mobile storage shelving	105626
No base		<u>Fire Suppression:</u>	
Ceiling:		Fire suppression system	211000
Exposed structure	---	<u>Plumbing:</u>	
Walls:		N/A	
Unpainted concrete masonry units	042000	<u>HVAC:</u>	
<u>LOOSE FURNISHINGS:</u>		Exhaust air system	Div. 23
N/A		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		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	

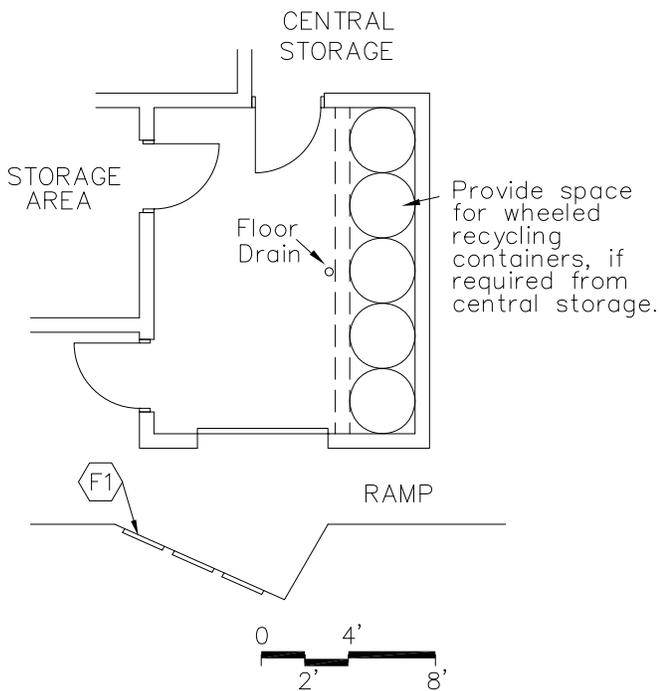
NOTES:

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

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

**CHAPTER 6: HIGH SCHOOL**

**Recycling 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:**

1. If local collection agency allows co-mingling of materials, a recycling alcove may not be needed. Design team should meet the LEED intent when designing the recycling area.

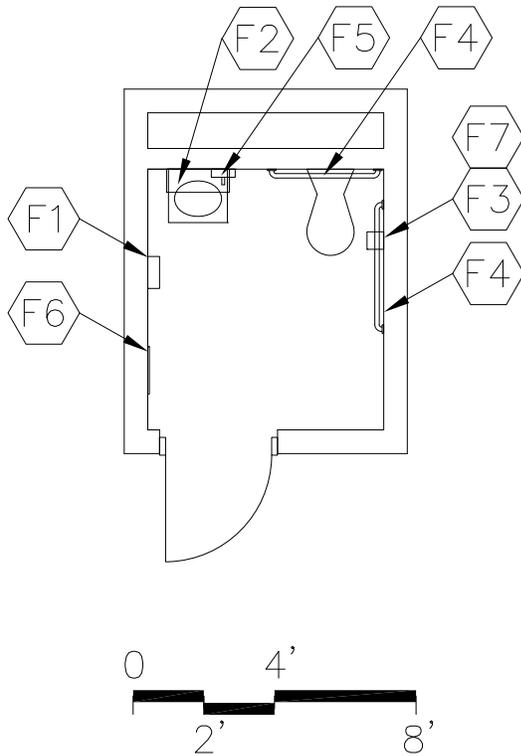
**LOADING/RECEIVING AREA**  
**H-BS-9**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Cure and seal 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>	
<b>Epoxy-painted</b> concrete masonry units	042000 / 099100	Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
<u>LOOSE FURNISHINGS</u>		<u>Electrical:</u>	
N/A		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		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**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Linoleum, <b>ET</b> , sheet vinyl, or rubber	096516 096500	F1 Towel dispenser	102813 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.