

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

INTRODUCTION

CHAPTER 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.

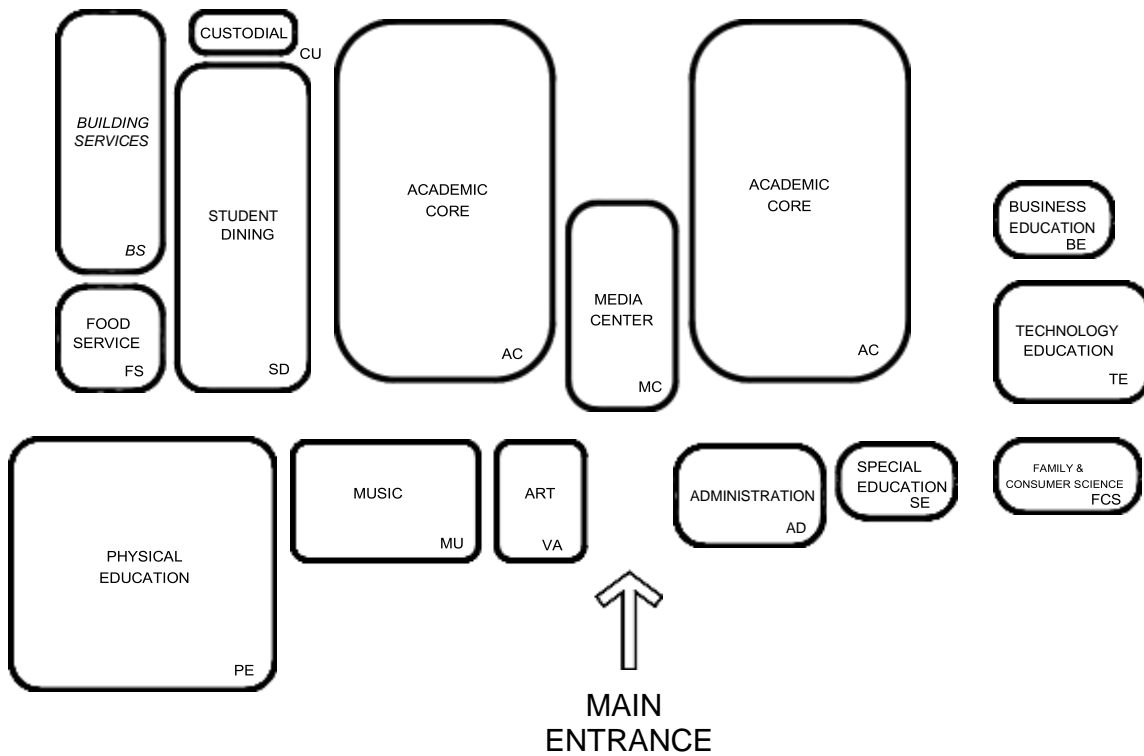
FEATURES

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.

TECHNOLOGY

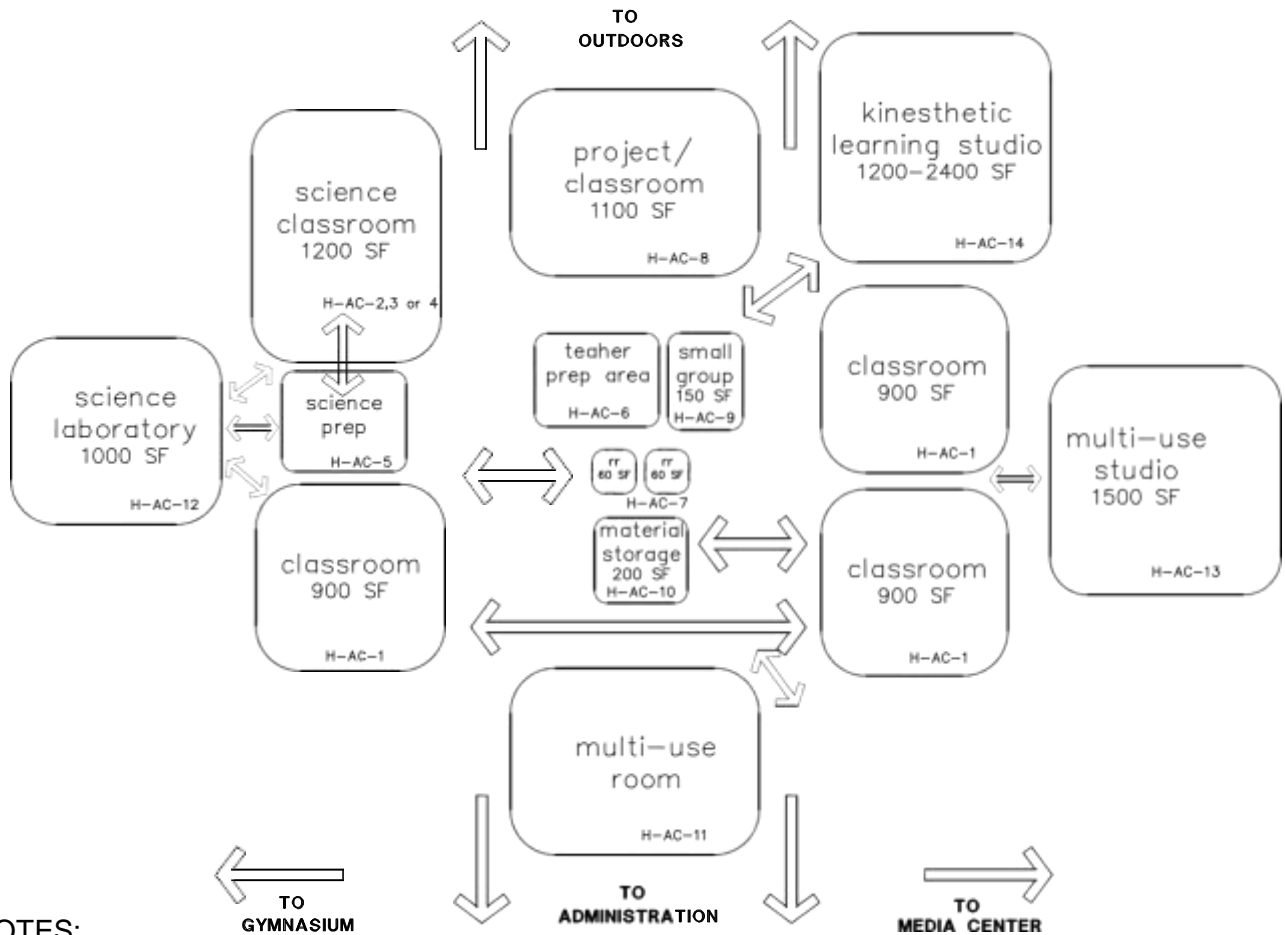
The location of projectors, in spaces where required, shall be carefully coordinated between the Design Professionals in relation to the projection surface and ADA requirements. Note that classroom projectors are required to be ultra-short throw interactive projectors (refer to Section 274119). Classroom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



NOTES:

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

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NOTES:

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

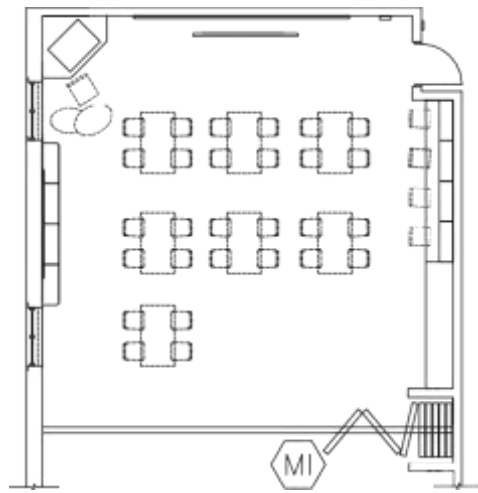
Following are the Academic Core space plates:

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

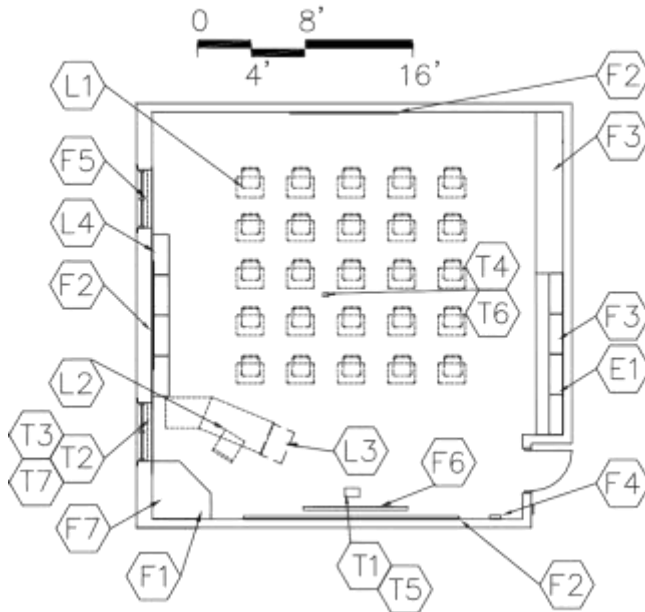
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HIGH SCHOOL CLASSROOM H-AC-1

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:

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

NOTES:

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

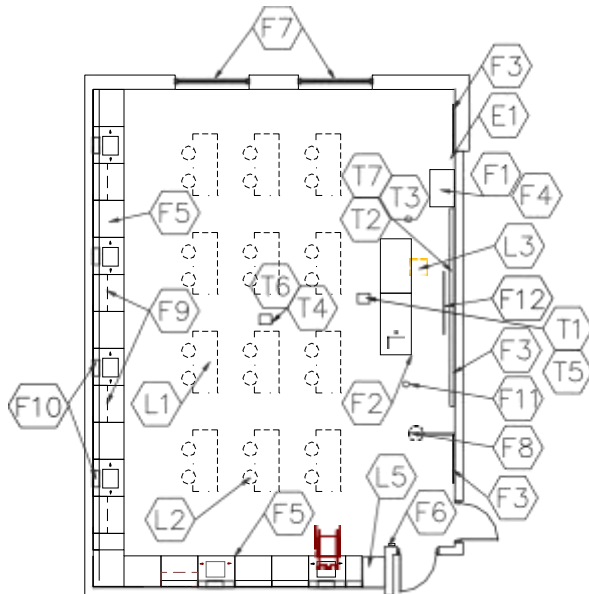
**HIGH SCHOOL CLASSROOM
H-AC-1**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet, carpet tile	096816	F1 Tall wardrobe with file drawers	123550
Optional: linoleum, ET, sheet vinyl, or rubber	096516 096500 096813	F2 20'-32' combination marker board, tack board and tackable wall surface	101100
		F3 18'-24' combination base and wall cabinets	123550
<u>Base:</u>		F4 Pencil sharpener support (optional)	062000
Resilient base	096500	F5 Windows with integral blinds	085113
		F6 Projection screen (optional)	115213
<u>Ceiling:</u>		F7 Technology support casework	123550
Suspended, acoustical	095113		
		<u>Fire Suppression:</u>	
<u>Walls:</u>		Fire suppression system	211000
Painted concrete masonry units	042000/099100	<u>Plumbing:</u>	
		N/A	
		<u>HVAC:</u>	
<u>LOOSE FURNISHINGS:</u>		Supply/return air system	Div. 23
L1 Student desks and chairs		Independent temperature control	230923
L2 Teacher desk or workstation/computer support and chair		<u>Electrical:</u>	
L3 File cabinet		Fluorescent lighting:	265100
L4 9' of low bookcases (fixed or mobile) Wastebasket		Illumination level: See Table 8600-5	
		Multilevel switching	262726
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u>	
		T1 1 projector video port	271543
		T2 1 voice port and phone	271513/273123
		T3 1 data port near teacher workstation	271513
		T4 Wireless access point cable above ceiling	271513
		Clock	275313
		Central sound system	275123
		Sound reinforcement system	275127
<u>Miscellaneous:</u>		T5 Ultra-short throw interactive projector	274119
Pencil sharpener (optional)		T6 Wireless access point (WAP) as determined by Design – refer to Note 4	272133
M1 Operable partitions between classrooms are optional	02226	T7 Classroom technology center video port 271543, 274116, 274119, 275127	
E1 Duplex receptacle with dedicated circuit for wireless devices		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111

NOTES:

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



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

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

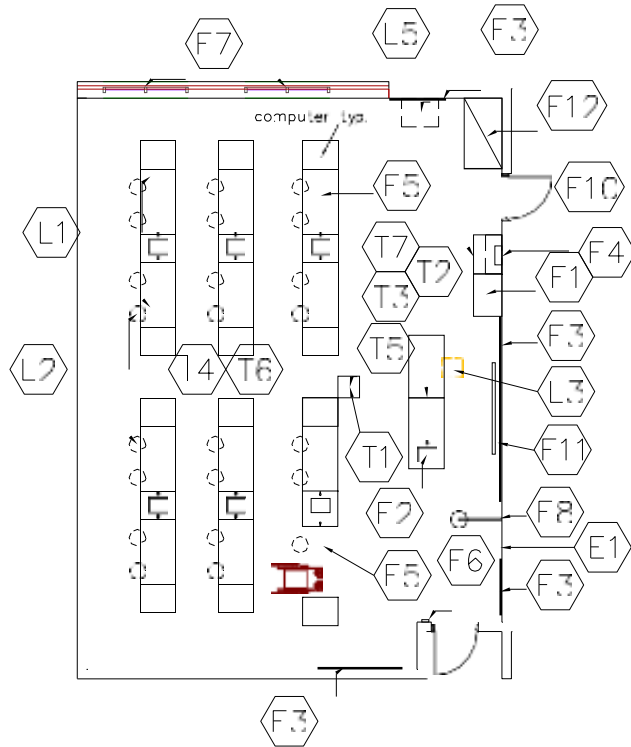
- Required: View glass – minimum 5% without daylighting design; minimum 3% with daylighting design.
 Recommended: Daylighting design with glazing area determined by design solution.
- Environmental sound control -
 wall only minimum STC 45
 ceiling minimum CAC 35, NRC 0.70
- Higher than normal ventilation requirements
- Moisture- and stain-resistant finishes
- Chemical-resistant counter tops

NOTES:

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

SCIENCE CLASSROOM- CHEMISTRY H-AC-3

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

ENVIRONMENTAL CONSIDERATIONS:

- Required: View glass – minimum 5% without daylighting design; minimum 3% with daylighting design.
 Recommended: Daylighting design with glazing area determined by design solution.
- Environmental sound control -
 wall only minimum STC 45
 ceiling minimum CAC 35, NRC 0.70
- Higher than normal ventilation requirements
- Moisture- and stain-resistant finishes
- Chemical-resistant counter tops

NOTES:

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

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

CHAPTER 6: HIGH SCHOOL

FINISHES ¹ :	Spec. Ref.#	FEATURES ¹ :	Spec. Ref.#
Flooring:		Fixed Items:	
Vinyl sheet flooring, linoleum, rubber, ET, polished concrete finishing, or colored concrete finishing	096500 096516 033510 033519	F1 Tall wardrobe with file drawers F2 Demonstration table/teacher desk F3 20'-32' combination marker board, tack board and tackable wall F4 Technology support casework F5 40'-60' lab casework with sinks F6 Pencil sharpener support (optional) 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)	123553 123553 101100 123550 123553 062000 085113 224000 123553 102813 115213 115313 123550
Base:		Fire Suppression:	
Resilient base	096500	Fire suppression system	211000
Ceiling:		Plumbing:	
Suspended, acoustical	095113	Plumbing connections 224000/221116/221119 Emergency shower/eyewash connections 224000 Master shut-off for gas 226313 Gas connections 226313	
Walls:		Compressed air connections (optional) 221500 Acid waste piping 221316 Neutralization tank 221323	
Paint	099100	HVAC:	
LOOSE FURNISHINGS:		Supply/return air system Div. 23 Independent temp control 230923 Manual exhaust Div. 23 Exhaust for fume hood Div. 23	
L1 Student work tables		Electrical:	
L2 Student stools/chairs		Fluorescent lighting: 265100 Illumination level: See Table 8600-5	
L3 Teacher chair or stool		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	
L4 Reserved		Communications:	
L5 File cabinet		T1 1 projector video port 271543 T2 1 voice port and phone 271513/273123 T3 1 data port at demonstration table 271513 T4	
Wastebasket		Wireless access point above ceiling 271513 Central sound system 275123 Clock 275313 Sound reinforcement system 275127	
L4 Could be fixed casework		T5 Ultra-short throw interactive projector 274119	
Electronic Safety and Security:			
Life safety devices per code	283111		
Miscellaneous:			
Pencil sharpener (optional)			
E1 Duplex receptacle with dedicated circuit for wireless devices			
Communications (cont'd):			
T6 Wireless access point (WAP) as determined by Design – refer to Note 4 272133			
T7 Classroom technology center video port 271543, 274116, 274119, 275127			

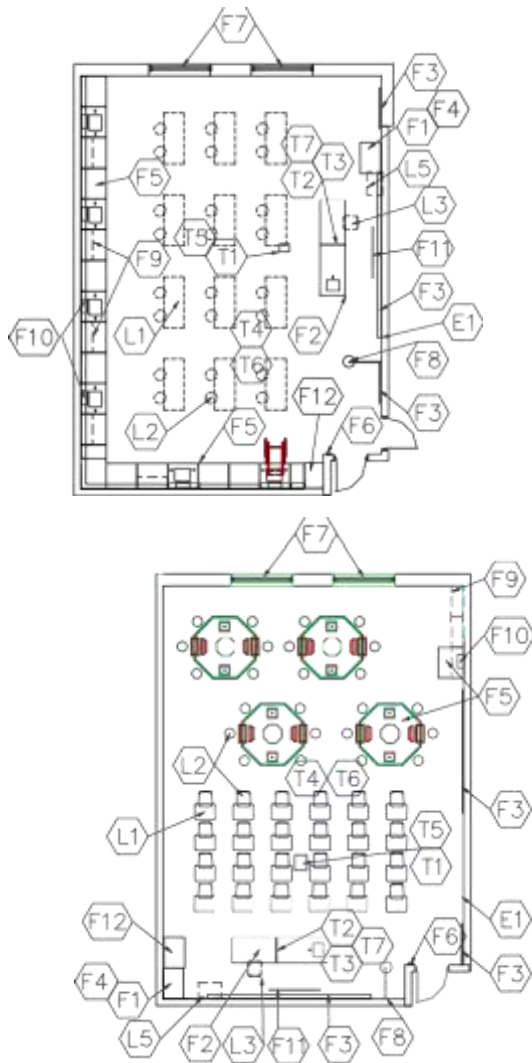
NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Technology components may be placed in a separate small cabinet, or integrated in the other casework in the room.
3. Master gas shutoff valve shall be clearly labeled, easily accessible, and immediately operable by staff.

4. Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.

SCIENCE CLASSROOM - BIOLOGY H-AC-4

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:

- Required: View glass – minimum 5% without daylighting design; minimum 3% with daylighting design.
Recommended: Daylighting design with glazing area determined by design solution.
- Environmental sound control -
wall only minimum STC 45
ceiling minimum CAC 35, NRC 0.70
- Higher than normal ventilation requirements
- Moisture- and stain-resistant finishes
- Chemical-resistant counter tops

NOTES:

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

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

CHAPTER 6: HIGH SCHOOL

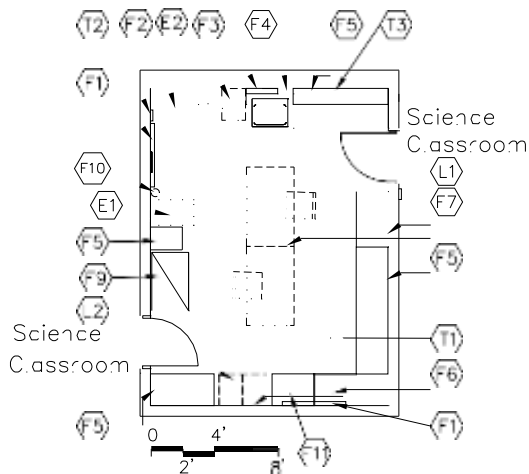
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Linoleum,	096500	F1 Tall wardrobe with file drawers	123553
rubber, ET, sheet vinyl,	096516	F2 Demonstration table/teacher desk	123553
polished concrete finishing, or	033510	F3 20'-32' combination marker board	101100
colored concrete finishing	033519	tack board and tackable wall surface	
<u>Base:</u>		F4 Technology support casework	123550
Resilient base	096500	F5 40'-60' of lab casework with sinks	123553
<u>Ceiling:</u>		F6 Pencil sharpener support (optional)	062000
Suspended, acoustical	095113	F7 Windows with integral blinds	085113
<u>Walls:</u>		F8 Emergency shower/eyewash	224000
Paint		F9 18'-24' of wall cabinets (total)	123553
099100		F10 Towel dispensers (optional)	102813
<u>LOOSE FURNISHINGS:</u>		F11 Projection screen (optional)	115213
L1 Student work tables		F12 Tall cabinets (optional)	123550
L2 Student stools/chairs		<u>Fire Suppression:</u>	
L3 Teacher chair or stool		Fire suppression system	211000
L4 Reserved		<u>Plumbing:</u>	
L5 File cabinet		Plumbing connections	224000/221116/221119
Wastebasket		Emergency shower/eyewash	224000
L4 could be fixed casework.		connections	226313
		Master shut-off for gas	226313
		Gas connections	221500
		Compressed air connections (optional)	221316
		Acid waste piping	221323
		Neutralization tank (optional)	221323
		<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Independent temperature ctrl	230923
		Manual exhaust	Div. 23
		<u>Electrical:</u>	
		Fluorescent lighting:	265100
		Illumination level: See Table 8600-5	
		Multilevel switching	262726
		Duplex receptacles at perimeter	
		workstations and teaching wall	262726
		Double duplex receptacle adjacent to	
		each data and video port	262726
		Emergency lighting	265100
		Means of egress lighting per code	265100
		<u>Communications:</u>	
		T1 1 projector video port	271543
		T2 1 voice port and phone	271513/273123
		T3 1 data port at demonstration table	271513
		T4 Wireless access point cable above ceiling	271513
		Central sound system	275123
		Clock	275313
		Sound reinforcement system	275127
		T5 Ultra-short throw interactive projector	274119
			271543, 274116, 274119, 275127

NOTES:

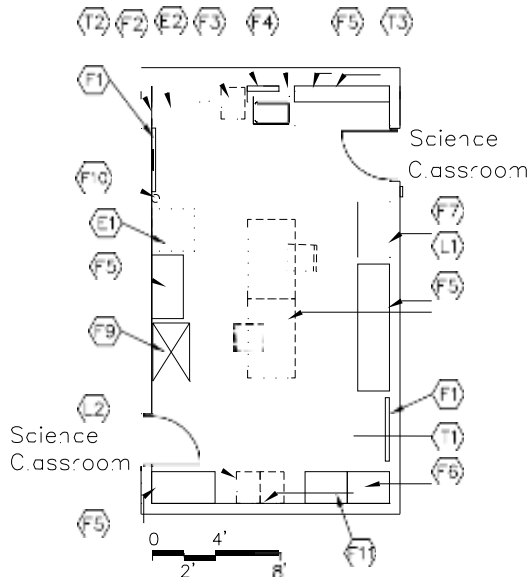
1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Technology components may be placed in a separate small cabinet, or integrated in the other casework in the room.
3. Master gas shutoff valve shall be clearly labeled, easily accessible, and immediately operable by staff.
4. Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.

**SCIENCE PREP
H-AC-5**
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:

- 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>FINISHES¹:</u>	<u>Spec. Ref.#</u>	<u>FEATURES¹:</u>	<u>Spec. Ref.#</u>
<u>Flooring:</u>		<u>Fixed Items:</u>	
Vinyl sheet flooring, linoleum, rubber, ET,	096516 096500	F1 4' of tack board	101100
polished concrete finishing, or	033510	F2 8'-15' of lab station with sink	123553
colored concrete finishing	033519	F3 Drying rack with pegs (optional)	123553
		F4 Towel dispenser (optional)	102813
		F5 16'-31' combination wall cabinets and tall cabinets	123553
<u>Base:</u>		F6 Storage cabinets for acids, Ventilated (optional)	123553
Resilient base	096500	F7 Storage cabinets for flammables(optional)	123553
		F8 Reserved	
<u>Ceiling:</u>		F9 Fume hood (optional)	123553
Suspended, acoustical	095113	F10 Emergency eyewash (if applicable)	224000
		F11 Chemical storage cabinets with acid resistant lining	123553
<u>Walls:</u>			
Painted concrete masonry units	042000/099100	<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Work tables with chemical-resistant top		Plumbing connections	224000/221116/221119
L2 2 file cabinets		Acid waste system	Div. 23
Wastebasket		Gas connections	226313
		Compressed air connections(optional)	221500
<u>EQUIPMENT</u>		Access to neutralization tank	221323
E1 Refrigerator/freezer (optional)		<u>HVAC:</u>	
E2 Dishwasher (optional)		Supply/return air system	Div. 23
		Independent temperature control	230923
		Manual exhaust	Div. 23
		24 hour exhaust for acid storage cabinet	Div. 23
Note: Eliminate 24 hour exhaust if recommended by cabinet manufacturer. Make room 24 hour exhaust if no cabinet exhaust.		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting:	265100
		Illumination level: See Table 8600-5	
		1 duplex receptacle under work tables	262726
		3 duplex receptacles	262726
		Receptacle for refrigerator/freezer	262726
		Double duplex receptacle at each data and video port	262726
		<u>Communications:</u>	
		T1 1 projector video port	271543
		T2 1 voice port and phone	271513/273123
		T3 1 data port	271513
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Fume hood through wall if adjacent to chemistry	

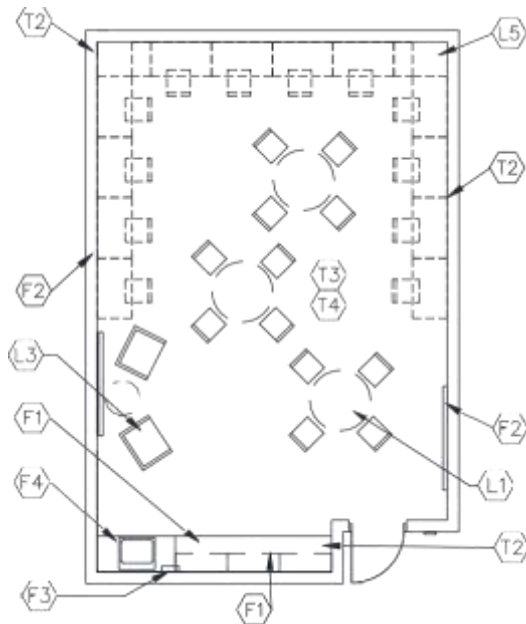
NOTES:

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

TEACHER PREP AREA/WORKROOM H-AC-6

CHAPTER 6: HIGH SCHOOL

600 SF



600 SF



CAPACITY:
SIZE:

4-12 teachers
300 - 600 SF

NOTES:

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

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

Collaboration Note:

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

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

CHAPTER 6: HIGH SCHOOL

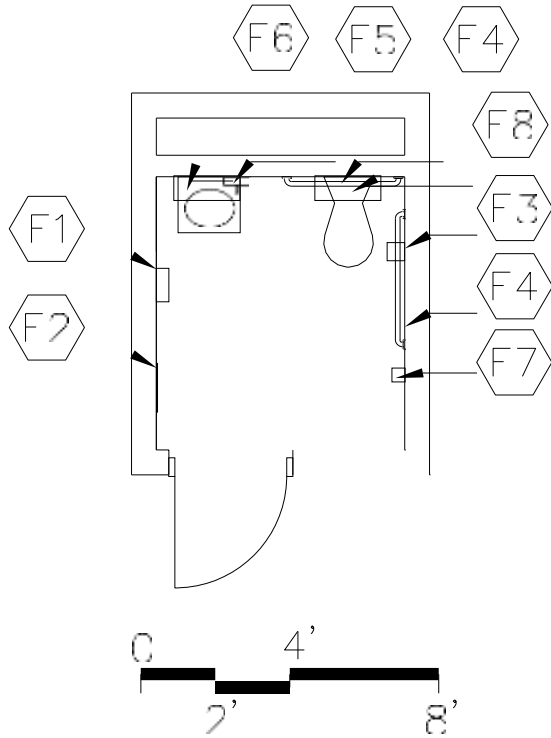
FINISHES ¹ :	Spec. Ref.#	FEATURES ¹ :	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items²:</u>	
Carpet, carpet tile, ET, linoleum, vinyl sheet, or rubber	096816 096500 096516 096813	F1 12'-18' combination base & wall cabinets (some could be bookcases)	123550
Base:		F2 50-75 sf combination marker board, tack board & tackable wall surface	101100
Resilient base	096500	F3 Towel dispenser (optional)	102813
		F4 3' sink base cabinet	123550
<u>Ceiling:</u>		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression systems	211000
		<u>TEX</u>	
<u>Walls:</u>		<u>Plumbing:</u>	
Paint		Sink	224000
099100		Plumbing connections	224000/221116/221119
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Tables and chairs		Supply/return air system	Div. 23
L2 Coatrack		Independent temperature control	230923
L3 Soft Seating		<u>Electrical:</u>	
L4 Teacher computer trucks		Single-level switching	262726
L5 Teacher workstation furniture and chair		Fluorescent lighting	265100
L6 42" high teacher cabinet with work surface top		Illumination level: See Table 8600-5	
L7 Stools		3 duplex receptacles	262726
Wastebasket		Double duplex receptacle adjacent to each data and video port	262726
		Duplex receptacles for office equipment	262726
		Receptacle for copier(if applicable)	262726
<u>Electronic Safety and Security:</u>		<u>Communications:</u>	
Life safety devices per code	283111	T1 Reserved	
<u>Miscellaneous:</u>		T2 Voice ports and phones	271513/273123
Copier by school district		T3 Wireless access point cable above ceiling	271513
E1 Reserved		Clock	275313
		Central sound system	275123
		T4 Wireless access point (WAP) as determined by Design – refer to Note 3	272133

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Ranges shown indicate quantities for the smallest and largest possible room size.
3. Baseline includes WAP cable. WAP device quantity / placement per 272133 requirements.
4. **When collaboration area is selected, teacher computer trucks are provided in lieu of teacher desks in classrooms.**

**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:

- 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:

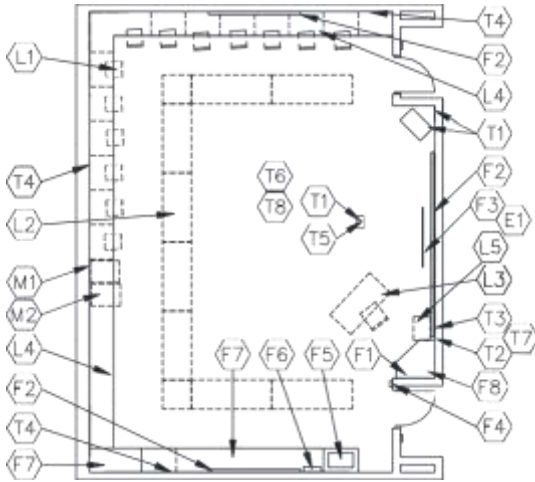
**INDIVIDUAL RESTROOM
H-AC-7**

CHAPTER 6: HIGH SCHOOL

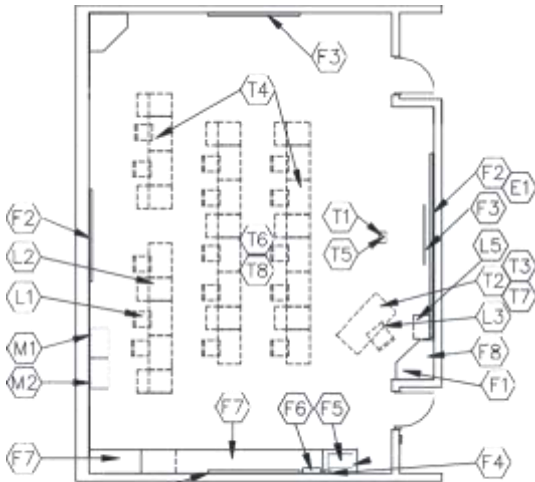
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Linoleum, rubber, ET, or	096516	F1 Towel dispenser	102813
sheet vinyl	096500	F2 24" x 60" mirror	102813
Optional: Ceramic mosaic tile,	093000	F3 Toilet tissue holder	102813
porcelain tile, or	096723	F4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

NOTES:

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



PERIMETER WORKSTATION LAYOUT



FREE-STANDING WORKSTATIONS

CAPACITY: 25 students
 SIZE: 1,100 SF

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

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

CHAPTER 6: HIGH SCHOOL

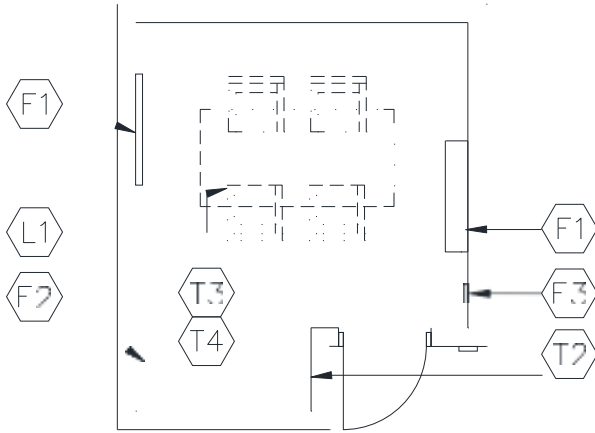
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet, carpet tile	096816	F1 Tall wardrobe with file drawers	123550
Optional: ET, sheet vinyl, linoleum, or rubber	096500 096516 096813	F2 16'-32' combination marker board tack board & tackable wall surface	101100
		F3 Projection screen (optional)	115213
		F4 Pencil sharpener support (optional)	062000
<u>Base:</u>		F5 3' sink base cabinet (optional)	123550
Resilient base	096500	F6 Towel dispenser (optional)	102813
		F7 9'-20' combination base and tall cabinets	123550
<u>Ceiling:</u>		F8 Technology support casework	123550
Suspended, acoustical	095113		
		<u>Fire Suppression:</u>	
<u>Walls:</u>		Fire suppression system	211000
Paint	099100	<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:	
L5 File cabinet		computer aided lenses	265100
Wastebasket		Illumination level: See Table 8600-5	
		Multilevel switching	262726
L4 could be fixed casework.		4 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u>	
<u>Electronic Safety and Security:</u>		T1 1 projector video port	271543
Life safety devices per code	283111	T2 1 voice port and phone	271513/273123
		T3 1 data port near teacher workstation	271513
<u>Miscellaneous:</u>		T4 Classroom area network	271513
Pencil sharpener (optional)		Clock	275313
The following items are to be funded by the school district:		Central sound system	275123
M1 Classroom area network file server		Sound reinforcement system	275127
M2 Printer		T5 Ultra-short throw interactive projector	274119
		T6 Wireless access point (WAP) as determined by Design – refer to Note 3	272133
E1 Duplex receptacle with dedicated circuit for wireless devices		T7 Classroom technology center video port	271543, 274116, 274119, 275127
		T8 Wireless access point cable above ceiling	271513

NOTES:

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

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

CHAPTER 6: HIGH SCHOOL



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Near academic core classrooms

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY: 4 - 5 students
SIZE: 150 SF

NOTES:

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

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

CHAPTER 6: HIGH SCHOOL

<u>FINISHES</u> ¹ :	Spec. Ref.#	<u>FEATURES</u> ¹ :	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
ET, sheet vinyl, linoleum, or rubber	096500 096516	F1 8'-12' combination marker board, tack board & tackable wall surface	101100
<u>Base:</u>		F2 4'-6' of work surface (optional)	123550
Resilient base	096500	F3 Pencil sharpener support (optional)	062000
<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 Work tables and chairs		Supply/return air system	Div. 23
L2 Reserved		Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
Wastebasket		<u>Electrical:</u>	
		Fluorescent lighting:	265100
		Illumination level: See Table 8600-5	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u>	
		T1 Reserved	
		T2 voice port with phone	271513/273123
		T3 Wireless access point cable above ceiling	271513
		T4 Wireless access point (WAP) as determined by design – refer to note 2	271533
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Interior window(optional)	081113/088000
		Pencil sharpener (optional)	

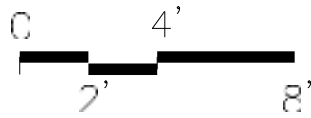
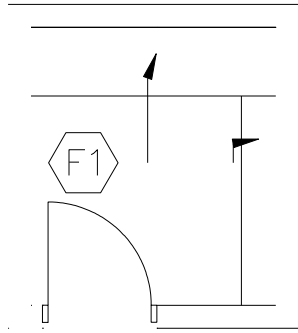
NOTES:

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

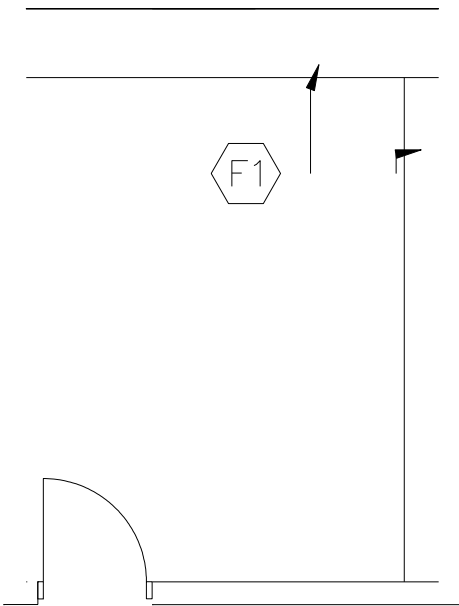
**INSTRUCTIONAL MATERIAL STORAGE
H-AC-10**

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:

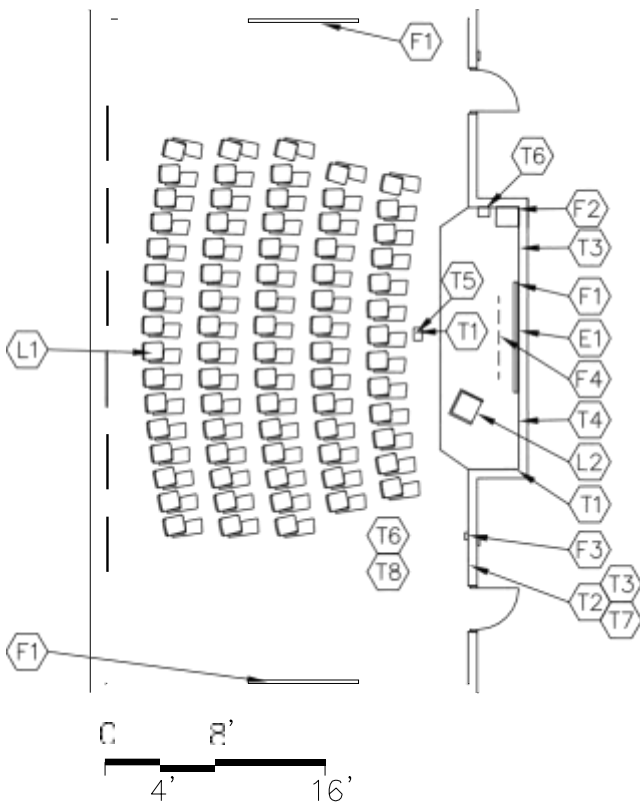
**INSTRUCTIONAL MATERIAL STORAGE
H-AC-10**

CHAPTER 6: HIGH SCHOOL

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<u>Fixed Items:</u>	
Rubber, <i>linoleum, ET, or sheet vinyl</i>	096500 096516	F1 30' of open shelving	
		depths may vary (fixed or loose)	123550
		Option: mobile storage shelving	105626
Base:		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Suspended, acoustical	095113	N/A	
Walls:		<u>HVAC:</u>	
Painted concrete masonry	042000/099100	To be determined by Design Professional	
		Supplemental heat as required	Div. 23
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
N/A		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



CAPACITY: 100 students
 SIZE: 1,500 SF

PROGRAM ACTIVITIES:

- Group instruction
- Presentations
- Testing
- Community use

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

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

CHAPTER 6: HIGH SCHOOL

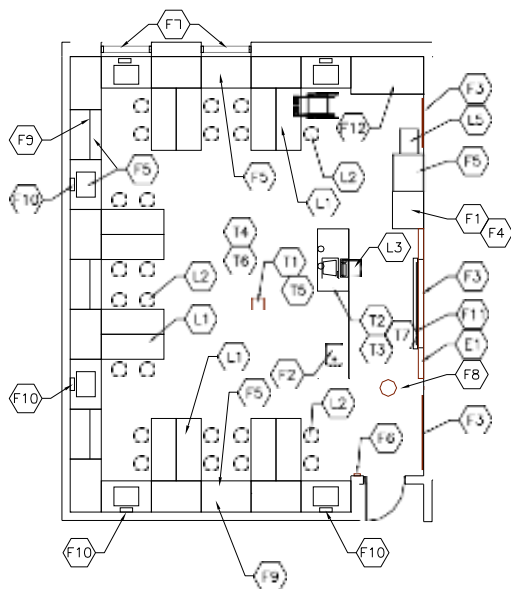
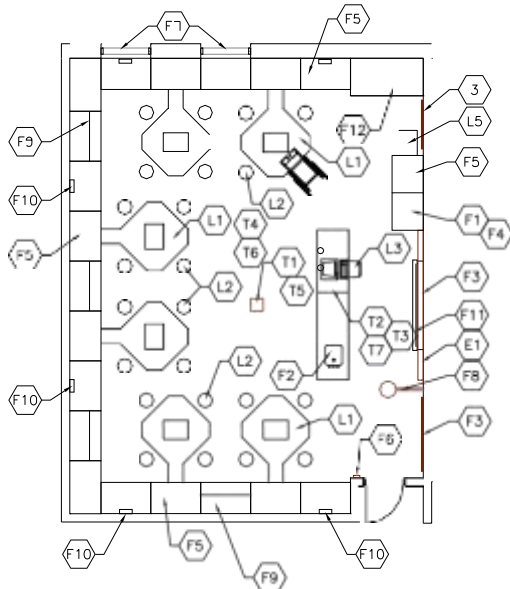
	Spec. Ref.#	FEATURES ¹ :	Spec. Ref.#
FINISHES¹:		Fixed Items:	
Flooring:		F1 16'-28' combination marker board	101100
Carpet, carpet tile, linoleum,	096816	tack board & tackable wall surface	
rubber, ET, sheet vinyl	096813	F2 Technology support casework	123550
	096516	F3 Pencil sharpener support (optional)	062000
	096500	F4 Projection screen (optional)	115213
Base:		Fire Suppression:	
Resilient base	096500	Fire suppression system	211000
Ceiling:		Plumbing:	
Suspended, acoustical	095113	N/A	
Walls:		HVAC:	
Painted concrete masonry units		Supply/return air system	Div. 23
	042000/099100	Independent temperature control	230923
Acoustical wall treatment	098000	Electrical:	
LOOSE FURNISHINGS:		Fluorescent lighting:	265100
L1 Student desks and chairs		Illumination level: See Table 8600-5	
L2 Podium / console (optional)		Multilevel switching	262726
Portable risers		6 duplex receptacles	262726
Wastebasket		Double duplex receptacle adjacent to	
		each data and video port	262726
		Emergency lighting per code	265100
		Means of egress lighting per code	265100
		Telecommunications Grounding	270526/260526
		Communications:	
		T1 2 projector video ports	271543
		T2 1 voice port and phone	271513/273123
		T3 1 data port (minimum)	271513
		T4 1 port to input local computer to monitor	271513
		Clock	275313
		Central sound system	275123
		T5 Ultra-short throw interactive projector	274119
		T6 Student Dining/Cafeteria sound	
		reinforcement system	275122
		T7 Wireless access point (WAP) as	
		determined by Design – refer to Note 3	272133
		T7 Classroom technology center video port	271543, 274116, 274119, 275127
		T8 Wireless access point cable above ceiling	271513
			271513
Electronic Safety and Security:			
Life safety devices per code	283111		
Miscellaneous:			
Pencil sharpener (optional)			
E1 Duplex receptacle with dedicated circuit for wireless devices			

NOTES:

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

SCIENCE LABORATORY H-AC-12

CHAPTER 6: HIGH SCHOOL



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

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Adjacent to other science classrooms
- Near science prep room

ENVIRONMENTAL CONSIDERATIONS:

- Required: View glass – minimum 5% without daylighting design; minimum 3% with daylighting design.
 Recommended: Daylighting design with glazing area determined by design solution.
- Environmental sound control -
 wall only minimum STC 45
 ceiling minimum CAC 35, NRC 0.70
- Higher than normal ventilation requirements
- Moisture- and stain-resistant finishes
- Chemical-resistant counter tops

NOTES:

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

**SCIENCE LABORATORY
H-AC-12**

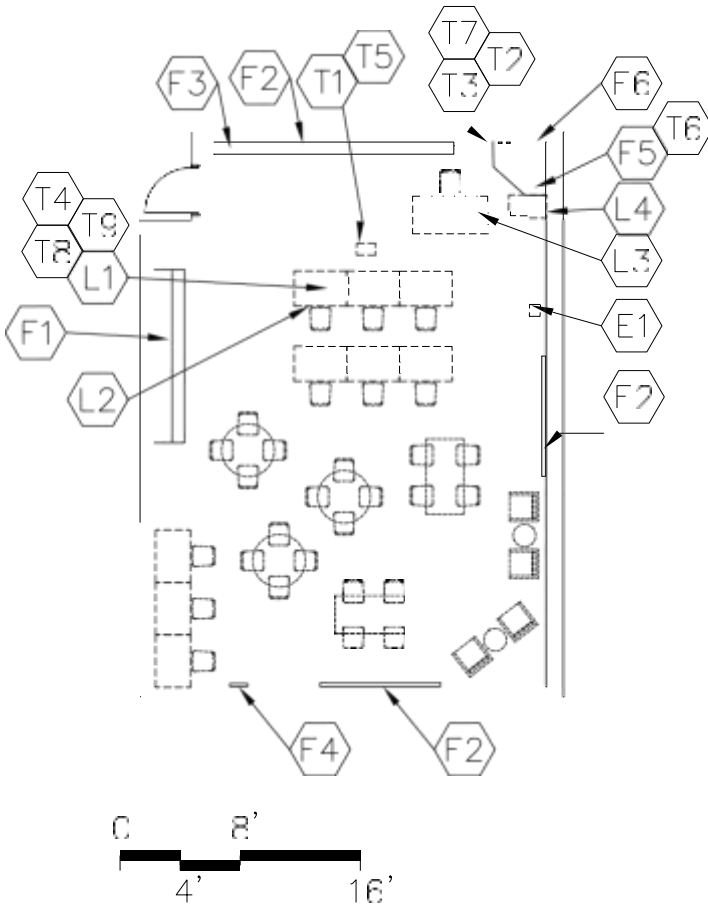
CHAPTER 6: HIGH SCHOOL

	Spec. Ref.#	FEATURES ¹ : <u>Fixed Items:</u>	Spec. Ref.#
FINISHES¹:			
Flooring:			
Vinyl sheet flooring, linoleum, rubber, ET	096500	F1 Tall wardrobe with file drawers	123553
	096516	F2 Demonstration table/teacher desk	123553
		F3 14'-22' combination chalk/marker board, tack board & tackable wall surface	101100
Base:			
Resilient base	096500	F4 Technology support casework	123550
		F5 40'-60' lab casework with sinks	123553
Ceiling:			
Suspended, acoustical	095113	F6 Pencil sharpener support (optional)	062000
		F7 Windows with integral blinds	085113
Walls:			
Paint	099100	F8 Emergency shower/eyewash	224000
		F9 18'-24' of wall cabinets (optional)	123553
		F10 Towel dispensers (optional)	102813
		F11 Projection screen (optional)	115213
		F12 Fume hood	115313
		F13 Tall cabinet for microscopes(optional)	123550
LOOSE FURNISHINGS:			
L1 Student work tables		Fire Suppression:	
L2 Student stools/chairs		Fire suppression system	211000
L3 Teacher chair or stool		Plumbing:	
L4 Reserved		Plumbing connections	224000/221116/22111
L5 File cabinet		Emergency shower/eyewashconnections	22400
Wastebasket		Master shut-off for gas	226313
		Gas connections	226313
L4 Could be fixed casework		Compressed air connections (optional)	221500
		Acid waste piping	221316
		Neutralization tank	221323
		HVAC:	
		Supply/return air system	Div. 23
		Independent temp control	230923
		Manual exhaust	Div. 23
		Exhaust for fume hood	Div. 23
		Electrical:	
		Fluorescent lighting:	265100
		Illumination level: See Table 8600-5	
		Multilevel switching	262726
		Duplex receptacles at perimeter workstations and teaching wall	262726
		Double duplex receptacle adjacent to each data and video port	262726
		Emergency lighting	265100
		Means of egress lighting per code	265100
		Communications:	
		T1 1 projector video port	271543
		T2 1 voice port and phone	271513/273123
		T3 1 data port at demonstration table	271513
		T4 Wireless access point cable above ceiling	271513
		Central sound system	275123
		Clock	275313
		Sound reinforcement system	275127

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Technology components may be placed in a separate small cabinet, or integrated in the other casework in the room.
3. Master gas shutoff valve shall be clearly labeled, easily accessible, and immediately operable by staff.
4. Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133

requirements.



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Near kinesthetic studio
- Near academic core classrooms

ENVIRONMENTAL CONSIDERATIONS:

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

MISCELLANEOUS:

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

CAPACITY: 25 students
SIZE: 1,500 SF

NOTES:

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

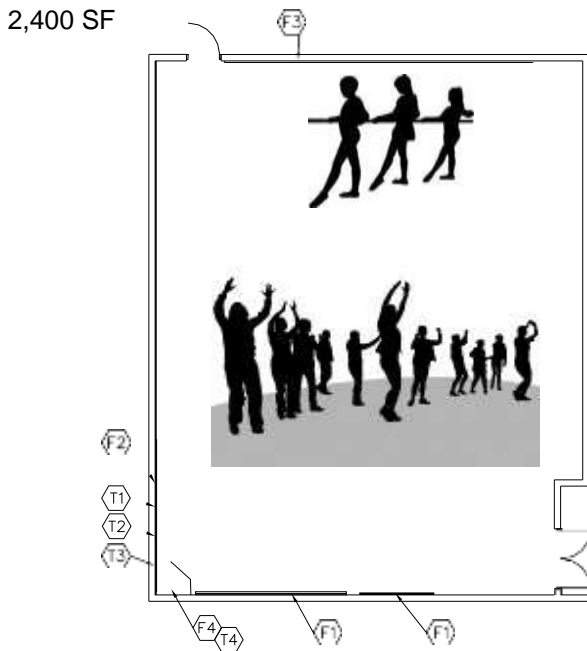
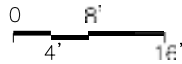
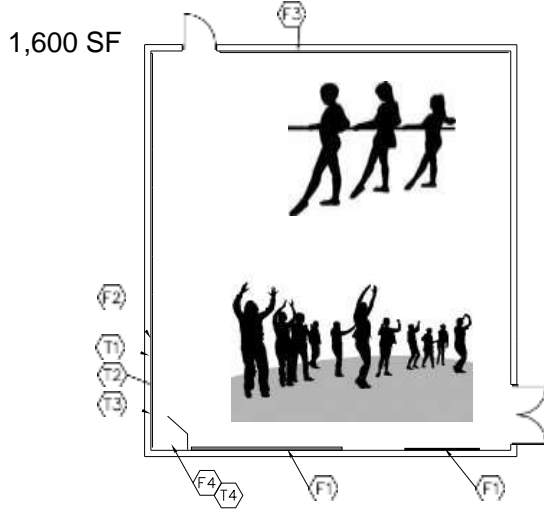
**MULTI-USE STUDIO
H-AC-13**

CHAPTER 6: HIGH SCHOOL

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

NOTES:

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



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

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Near multi-use studio
- Near academic core spaces

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

**KINESTHETIC LEARNING STUDIO
H-AC-14**

CHAPTER 6: HIGH SCHOOL

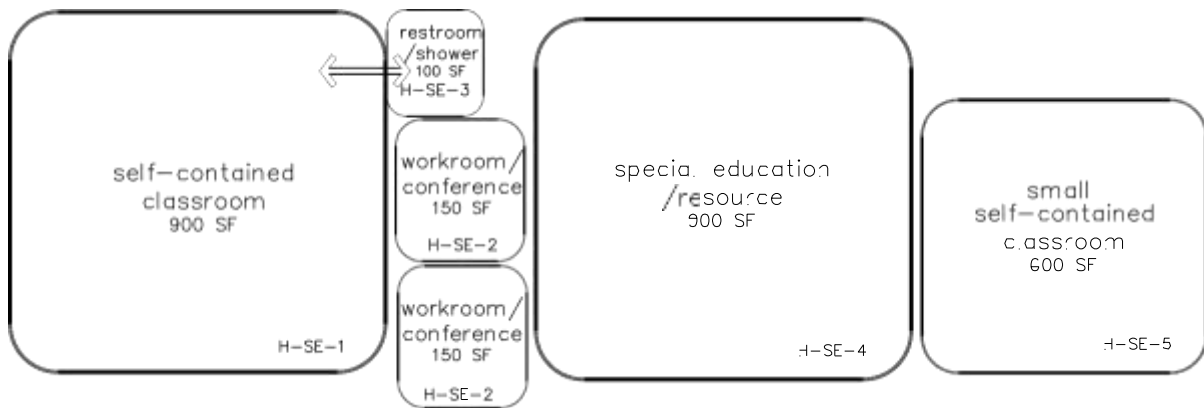
<u>FINISHES¹:</u>	<u>Spec. Ref.#</u>	<u>FEATURES:</u>	<u>Spec. Ref.#</u>
Flooring:		<u>Fixed Items:</u>	
Wood dance floor	096400	F1 8'-24' combination marker board, tack board, or tackable wall surface	101100
Base:		F2 Mirrors	102813
Resilient base	096500	F3 Dance bars	116615
Ceiling:		F4 Tall wardrobe with file drawers	123550
Painted exposed structure	099100	<u>Fire Suppression:</u>	
Walls:		Fire suppression system	211000
Paint		<u>Plumbing:</u>	
099100		N/A	
		<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Independent temperature control	230923
		<u>Electrical:</u>	
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		Multilevel switching	262726
		Dimmable lighting	262726
		6 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		Means of egress lighting	265100
		Emergency lighting per code	265100
		<u>Communications:</u>	
		T1 1 projector video port	271543
		T2 1 voice port and phone	271513/273123
		T3 1 data port	271513
		Clock	275313
		Central sound system horns	275123
		T4 Combination i-Pod / CD Player unit and Mixer/Amp unit, located in the wardrobe, serving room overhead distributed speakers	
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

**SPECIAL EDUCATION SPACES
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

	Spec. Ref.#		Spec. Ref.#
FINISHES¹:		FEATURES¹:	
Flooring:		Fixed Items:	
Combination carpet, carpet tile, with resilient options	096816 096500	F1 Open casework – student coats and personal items with wall cabinets above	123550
Optional: All ET, sheet vinyl, linoleum, or rubber	096516 096813	F2 Tall wardrobe w/file drawers	123550
		F3 8'-10' of base & wall cabinets	123550
		F4 3' sinkbase cabinet	123550
		F5 24'-32' combination marker board	101100
Base:		F6 tack board and tackable wall surface	123550
Resilient base	096500	F7 Technology support casework Pencil sharpener support (optional)	062000
		F8 Windows with integral blinds	085113
Ceiling:		F9 Towel dispenser (optional)	102813
Suspended, acoustical	095113	F10 Projection screen (optional)	115213
		F11 Tall storage cabinet (optional)	123550
		F12 Mirror (optional)	102813
Walls:		Fire Suppression:	
Paint	099100	Fire suppression system	211000
		Plumbing:	
LOOSE FURNISHINGS:		Sink with drinking fountain	224000
L1 Student desks/tables		Plumbing connections	224000/221116/221119
L2 Reserved		HVAC:	
L3 Student chairs		Supply/return air system	Div. 23
L4 Teacher workstations/computer support and chair		Independent temperature control	230923
L5 8'-10' of low bookcases (fixed or mobile)		Electrical:	
L6 Reading table		Fluorescent lighting	265100
L7 File cabinet		Illumination level: See Table 8600-5	
Wastebasket		Multilevel switching	262726
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
EQUIPMENT (optional)		Communications:	
Washer and dryer		T1 1 projector video port	271543
Small refrigerator		T2 1 voice port and phone	271513/273123
		T3 1 data port	
Range		T4 near teacher workstation	271513
Oven		Wireless access point cable above	
Microwave		ceiling	271513
		Clock	275313
		Sound reinforcement system	275127
		Central sound system	275123
Electronic Safety and Security:		T5 Ultra-short throw interactive projector	274119
Life safety devices per code	283111		
Miscellaneous:		T6 Wireless access point (WAP) as determined by Design – refer to Note 3	272133
Pencil sharpener (optional)			
E1 Duplex receptacle with dedicated circuit for wireless devices		T7 Classroom technology center video port	271543, 274116, 274119, 275127

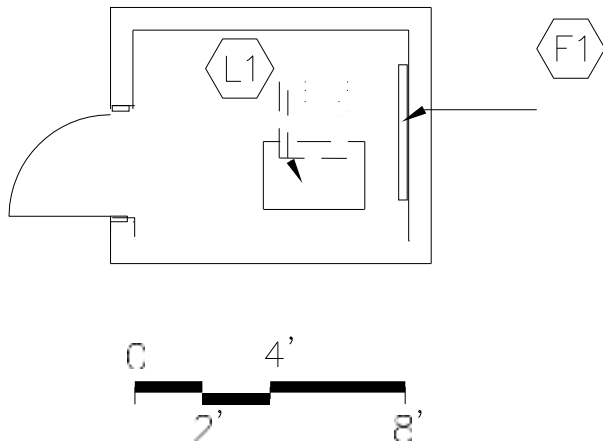
NOTES:

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

2. Technology components may be placed in a separate small cabinet, or integrated in the other casework in the room.
3. Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.

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

CHAPTER 6: HIGH SCHOOL



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY: 1 - 2 persons
SIZE: 150 SF

NOTES:

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

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

CHAPTER 6: HIGH SCHOOL

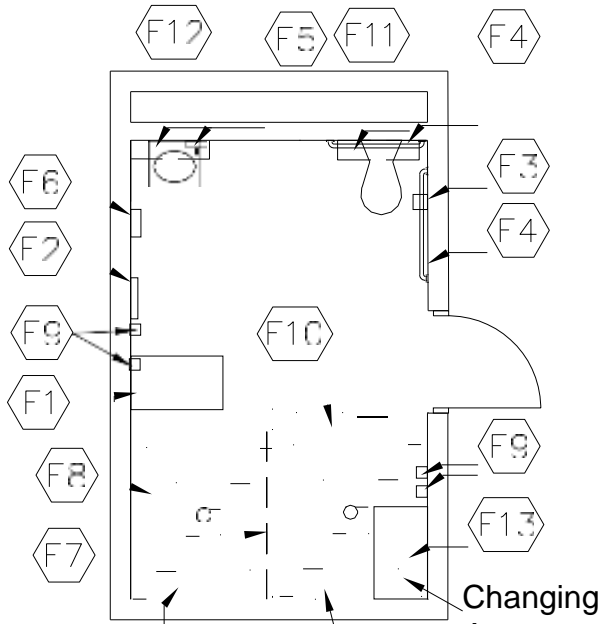
	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet, carpet tile , ET, linoleum, or sheet vinyl	096816 096500 096516 096813	F1 4' of tack board (optional)	101100
<u>Base:</u>		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system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

NOTES:

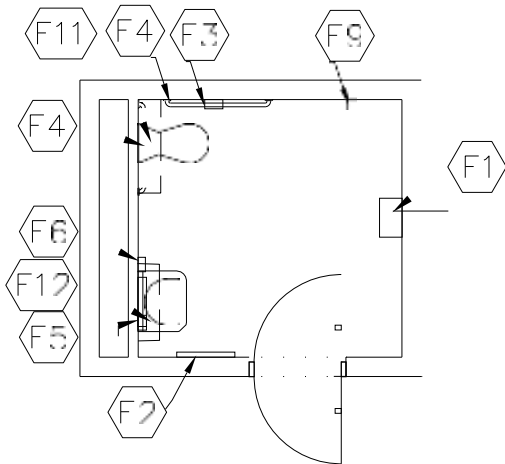
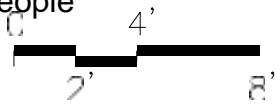
1. Finishes/Features: Refer to Chapter 9 for specification references.

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

CHAPTER 6: HIGH SCHOOL



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



PROGRAM ACTIVITIES:

- Changing area
- Toilet / shower needs

SPATIAL RELATIONSHIPS:

- Next to self-contained classroom

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY: 1 - 2 persons
SIZE: 100 SF

NOTES:

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

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

CHAPTER 6: HIGH SCHOOL

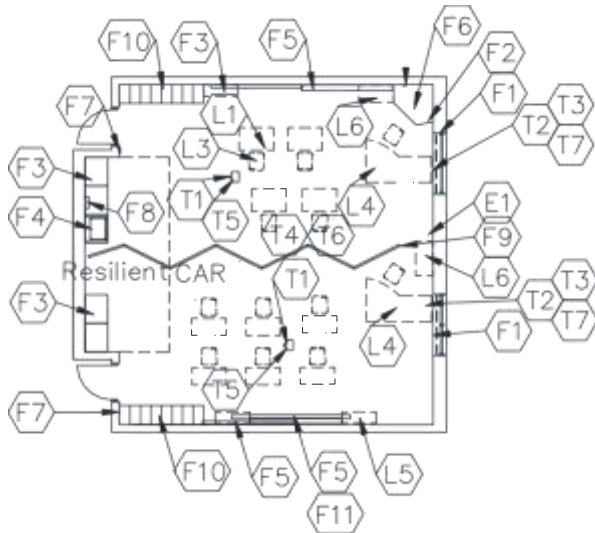
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Restroom: ET, vinyl sheet flooring, porcelain tile, or ceramic mosaic	096500 093000	F1 Base cabinets	123550
Shower: Ceramic mosaic tile, or porcelain tile		F2 24" x 60" mirror	102813
		F3 Toilet tissue holder	102813
		F4 36" and 42" grab bar	102813
		F5 Soap dispenser	102813
		F6 Towel dispenser	102813
<u>Base:</u>		F7 Shower curtain and rod	102813
Restroom: Resilient base, or ceramic mosaic, or porcelain integral vinyl cove base	096500 093000	F8 ADA shower accessories	102813
Shower: Ceramic mosaic tile base, porcelain tile		F9 (2) towel hooks	102813
		F10 Cubicle curtain (optional)	102813
		F11 8" deep wall cabinet above toilet	102813
		F12 Shelf (optional)	102813
		F13 Changing station or fold-down adult changing station	123550
<u>Ceiling:</u>		<u>Fire Suppression:</u>	
Restroom: Suspended, acoustical	095113	Fire suppression system	211000
Shower: Painted portland cement plaster or interior finish system	092400/099100 092513		
		<u>Plumbing:</u>	
<u>Walls:</u>		Wall-mounted water closet	224000
Epoxy painted concrete masonry units	042000/099100	Wall-mounted lavatory	224000
or ceramic wall tile in shower and latex paint in restroom	093000 099100	ADA shower controls and head plumbing connections	224000 224000/221116/221119
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
Wastebasket		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

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

CHAPTER 6: HIGH SCHOOL



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY: Based on disability.
See Chapter 1, Section 1110.
SIZE: 900 SF

NOTES:

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

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

CHAPTER 6: HIGH SCHOOL

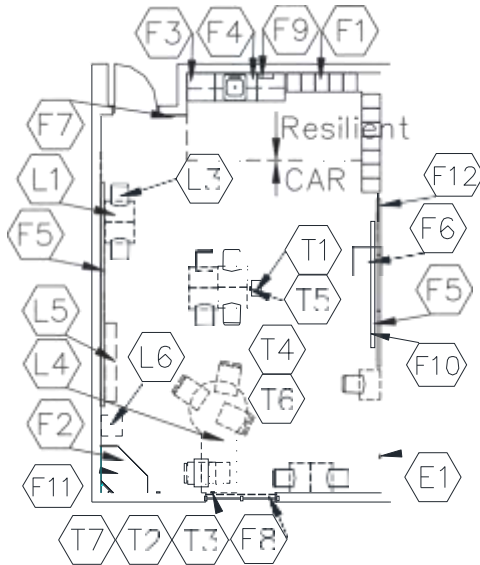
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Combination carpet, carpet tile, with resilient options	096816 096500	F1 Windows with integral blinds	085113
Option: All ET, sheet vinyl, linoleum, or rubber	096516 096813	F2 Tall wardrobe with file drawers	123550
		F3 8'-12' of base cabinets	123550
		F4 3' sink base cabinet	123550
		F5 20'-32' combination chalk/marker board, tack board, tackable wall surface	101100 F6
<u>Base:</u>		Technology support casework	123550
Resilient base	096500	F7 Pencil sharpener support (optional)	062000 F8
		Towel dispenser (optional)	102813
<u>Ceiling:</u>		F9 Operable partition (optional)	102226
Suspended, acoustical	095113	F10 Open casework coats and personal storage w/wall cabinets above	123550
		F11 Projection screen (optional)	115213
<u>Walls:</u>		F12 Mobile storage cabinet (optional)	123550 F13
Paint	099100	Mirror (optional)	102813
<u>LOOSE FURNISHINGS:</u>		<u>Fire Suppression:</u>	
L1 Student desks/tables		Fire suppression system	211000
L2 Reserved		<u>Plumbing:</u>	
L3 Student chairs		Sink	224000
L4 Teacher desk /computer support and chair		Plumbing connections	224000/221116/221119
L5 Mobile bookcases or storage unit		<u>HVAC:</u>	
L6 File cabinet		Supply/return air system	Div. 23
Wastebasket		Independent temperature control	230923
		<u>Electrical:</u>	
<u>Electronic Safety and Security:</u>		Fluorescent lighting	265100
Life safety devices per code	283111	Illumination level: See Table 8600-5	
		Multilevel switching	262726
<u>Miscellaneous:</u>		4 duplex receptacles	262726
Pencil sharpener (optional)		Double duplex receptacle adjacent to each data and video port	262726
E1 Duplex receptacle with dedicated circuit for wireless devices		<u>Communications:</u>	
		T1 1 projector video port	271543
<u>Communications (cont'd):</u>		T2 1 voice port and phone	271513/237123
T6 Wireless access point (WAP) as determined by Design – refer to Note 3	272133	T3 1 data port	
		near each teacher workstation	271513 T4
T7 Classroom technology center video port	271543, 274116, 274119, 275127	Wireless access point cable above ceiling	271513
		Clock	275313
		Sound reinforcement system	275127
		Central sound system	275123
		T5 Ultra-short throw interactive projector	274119

NOTES:

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

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

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:

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

NOTES:

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

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

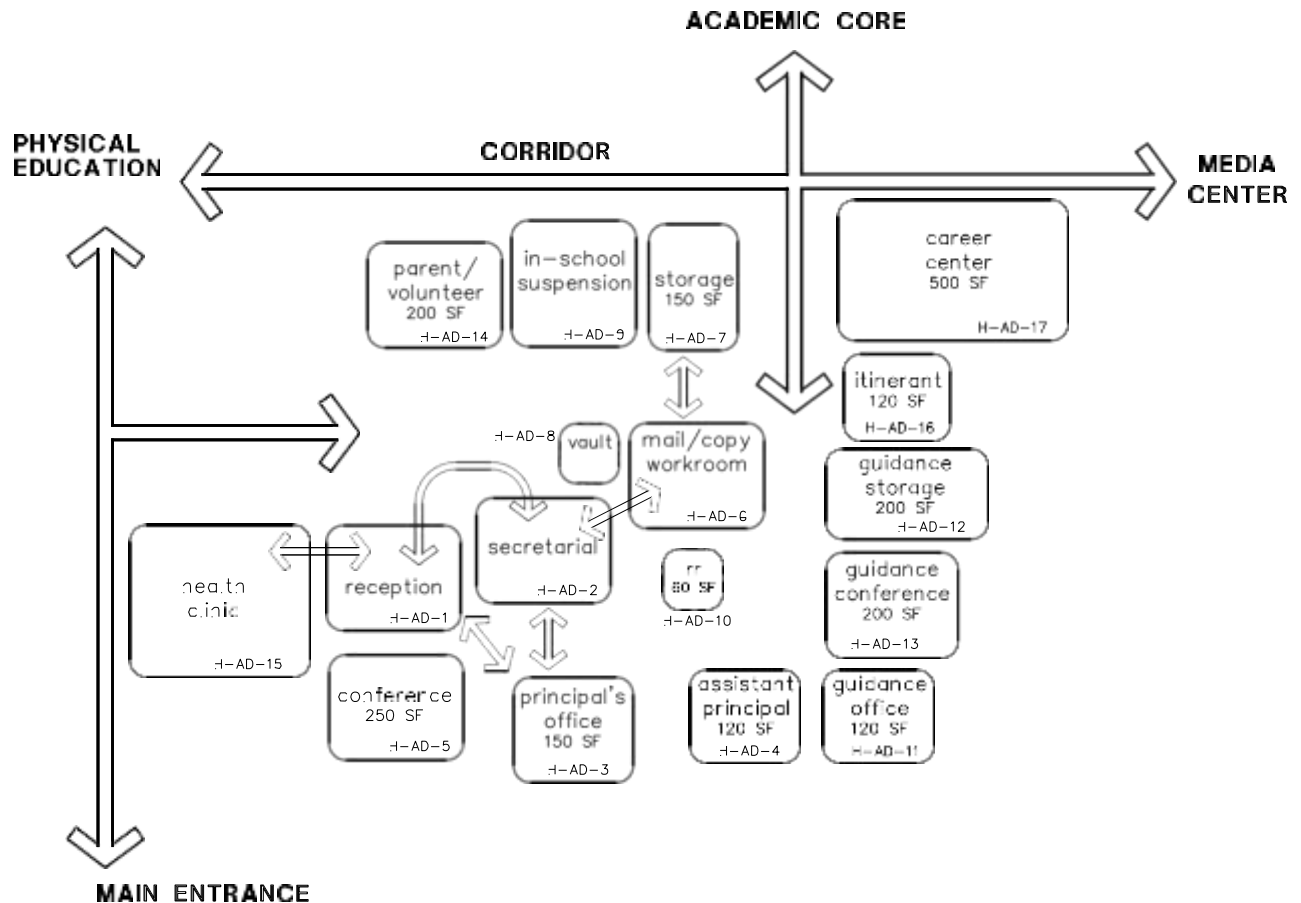
CHAPTER 6: HIGH SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Combination carpet, carpet tile,	096816	F1 Open casework – coats and personal items	
with resilient options	096516	with wall cabinets above	123550
Option: All ET, sheet vinyl,		F2 Tall wardrobe w/file drawers	123550
096500		F3 About 6' of base & wall cabinets (total)	123550
linoleum, or rubber	096813	F4 3' sinkbase cabinet	123550
Base:		F5 20'-32' combination marker	101100
Resilient base	096500	board, tack board, tackable wall surface	
Ceiling:		F6 Mobile storage cabinet (optional)	123550
Suspended, acoustical	095113	F7 Pencil sharpener support (optional)	062000
Windows with integral blinds		F8 Windows with integral blinds	085113
Walls:		F9 Towel dispenser (optional)	102813
Paint	099100	F10 Projection screen(optional)	115213
		F11 Technology support casework	123550
		F12 Mirror (optional)	102813
<u>LOOSE FURNISHINGS:</u>		<u>Fire Suppression:</u>	
L1 Student desks/tables		Fire suppression system	211000
L2 Reserved		<u>Plumbing:</u>	
L3 Student chairs		Sink with drinking fountain	224000
L4 Teacher workstations/computer support		Plumbing connections	224000/221116/221119
and chair			
L5 6' of low bookcases (fixed or mobile)		<u>HVAC:</u>	
L6 File cabinet		Supply/return air system	Div. 23
Wastebasket		Independent temperature	
		control	230923
<u>Electronic Safety and Security:</u>		<u>Electrical:</u>	
Life safety devices per code	283111	Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
<u>Miscellaneous:</u>		Multilevel switching	262726
Pencil sharpener (optional)		4 duplex receptacles	262726
		Double duplex receptacle adjacent to	
E1 Duplex receptacle with dedicated		each data and video port	262726
circuit for wireless devices		<u>Communications:</u>	
		T1 1 projector/video port	271543
		T2 1 voice port and phone	271513/273123
		T3 1 data port	
		near teacher workstation	271513
		T4 Wireless access point cable above ceiling	271513
		Clock	275313
		Central sound system	275123
		Sound reinforcement system	275127
		T5 Ultra-short throw interactive projector	
		(optional)	274119
		T6 Wireless access point (WAP) as	
		determined by Design – refer to Note 3	
			272133
		T7 Classroom technology center video port	
			271543, 274116, 274119, 275127

NOTES:

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

requirements.

**NOTE:**

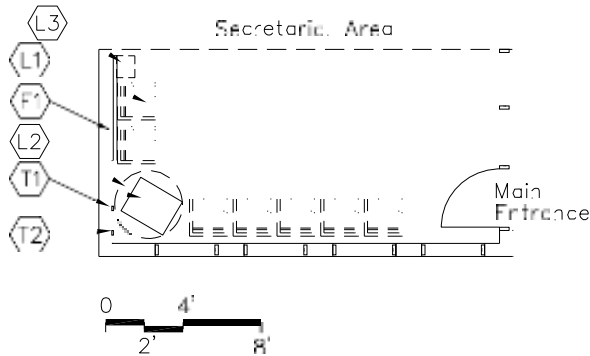
This is an example of how the administrative spaces in a high school could be arranged. This is only meant to demonstrate the relationships between various areas of the building.

Following are the Administrative space plates for the following rooms:

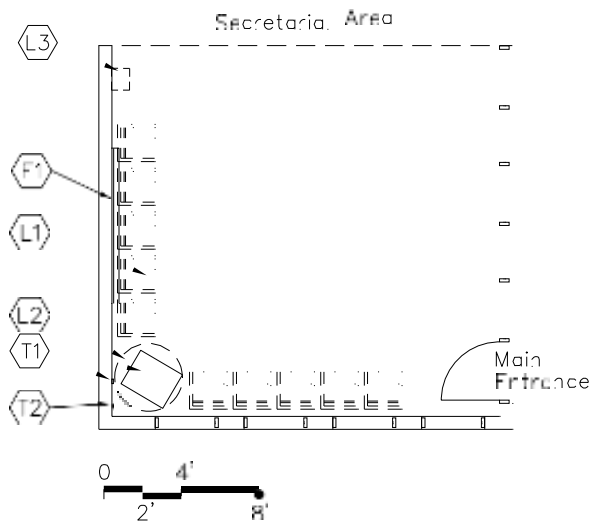
H-AD-1	Reception Area	H-AD-10	Restroom
H-AD-2	Secretarial Area	H-AD-11	Guidance Counselor's office
H-AD-3	Principal's Office	H-AD-12	Guidance Records/Storage
H-AD-4	Assistant Principal's Office	H-AD-13	Guidance Conference Room
H-AD-5	Conference Room	H-AD-14	Parent/Volunteer Room
H-AD-6	Mail/Work/Copy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

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200 SF



600 SF



CAPACITY: 6 - 8 or 8 - 10 visitors
 SIZE: 200 – 1,000 SF
 ANCILLARY SPACES: Secretarial Area
 H-AD-2

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

**RECEPTION AREA
H-AD-1**

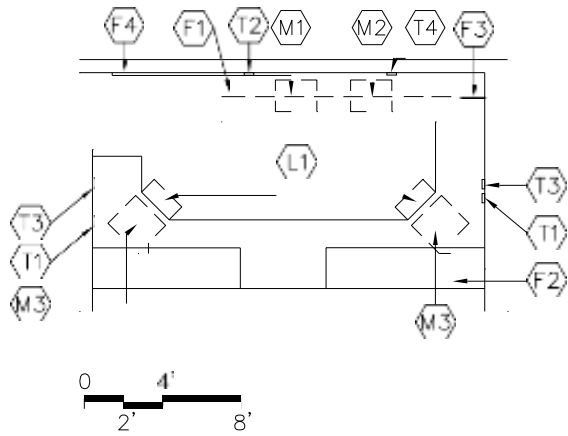
CHAPTER 6: HIGH SCHOOL

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816	F1 Tack board or tackable wall	
	096813	surface (optional)	101100
Base:		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Suspended, acoustical	095113	N/A	
Walls:		<u>HVAC:</u>	
Painted gypsum wallboard		Supply/return air system	Div. 23
over metal studs	092116/099100	Independent temperature control	230923
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
L1 Visitor chairs		Single level switching	262726
L2 End table		Fluorescent lighting	265100
L3 Racks for forms (optional)		Illumination level: See Table 8600-5	
Wastebasket		2 duplex receptacles	262726
		Double duplex receptacle adjacent	
		to video port	262726
		Means of egress lighting per code	265100
		<u>Communications:</u>	
		T1 1 projector video port, monitor, and brackets	
			271543/274119
		T2 1 voice port and phone	271513/273123
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Interior windows	081113/088000

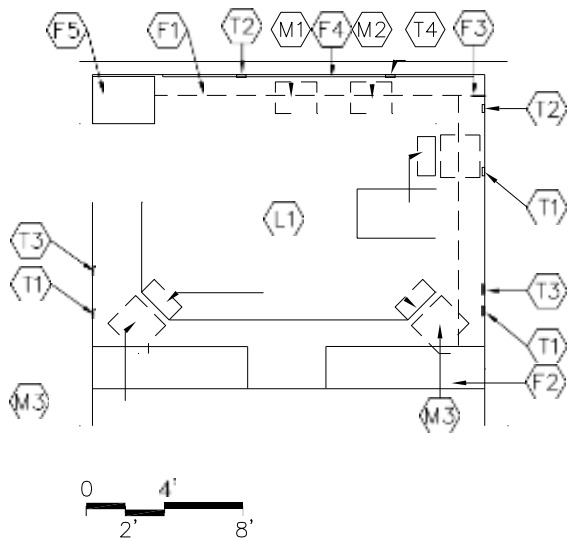
NOTES:

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

200 SF ADA Compliant Approach



600 SF ADA Compliant Approach



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

PROGRAM ACTIVITIES:

- Conduct administrative support duties, and receive and direct visitors

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

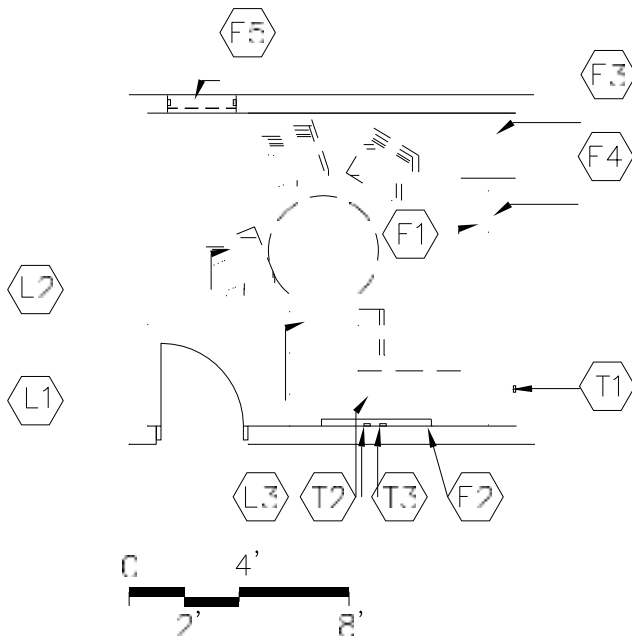
1. Loose furnishings shown represent one of many possible arrangements.

**SECRETARIAL AREA
H-AD-2**
CHAPTER 6: HIGH SCHOOL

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

NOTES:

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



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY: 1 - 4 persons
SIZE: 150 SF

NOTES:

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

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

CHAPTER 6: HIGH SCHOOL

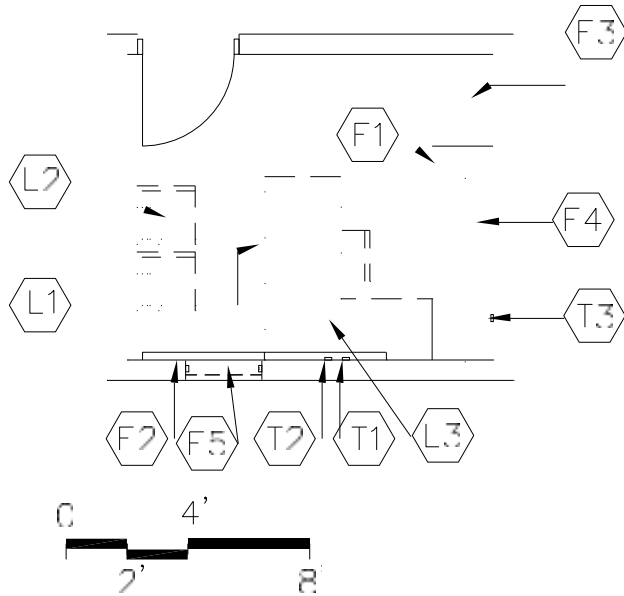
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816	F1 Work surface with file drawers	123550
	096813	F2 4' of tack board or tackable wall surface	101100
<u>Base:</u>		F3 Tall wardrobe (optional)	123550
Resilient base	096500	F4 Wall cabinets above work surface	123550
<u>Ceiling:</u>		F5 Window with integral blind	085116
Suspended, acoustical	095113	<u>Fire Suppression:</u>	
<u>Walls:</u>		Fire suppression system	211000
Painted gypsum wallboard over metal studs	092116 / 099100	<u>Plumbing:</u>	
<u>LOOSE FURNISHINGS:</u>		N/A	
L1 Desk and chair		<u>HVAC:</u>	
L2 Visitor chairs		Supply/return air system	Div. 23
L3 Computer desk return Wastebasket		Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u>	
		T1 1 projector video port	271543
		T2 1 voice port and phone	271513/273123
		T3 1 data port near workstation	271513
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

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

CHAPTER 6: HIGH SCHOOL



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY: 1 - 3 persons
SIZE: 120 SF

NOTES:

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

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

CHAPTER 6: HIGH SCHOOL

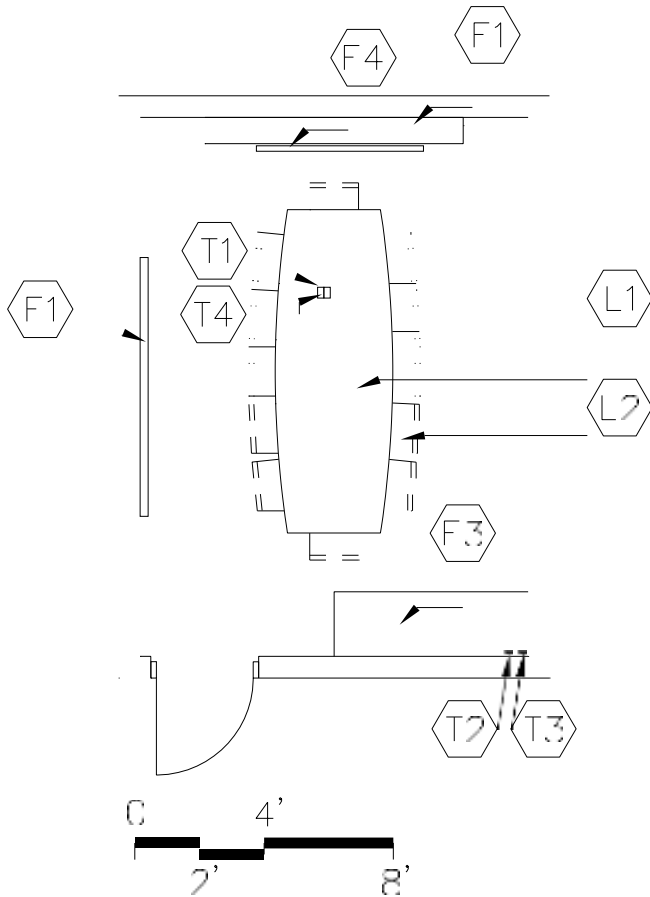
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816	F1 Work surface with file drawers	123550
	096813	F2 4' of tack board or tackable wall surface	101100
Base:		F3 Tall wardrobe	123550
Resilient base	096500	F4 Wall cabinets above work surface	123550
Ceiling:		F5 Window with integral blind	085116
Suspended, acoustical	095113		
Walls:		<u>Fire Suppression:</u>	
Painted gypsum wallboard over metal studs	092116/099100	Fire suppression system	211000
		<u>Plumbing:</u>	
		N/A	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 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 8600-5	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to data and video port	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/273123
		T2 1 data port near workstation	271513
		T3 1 projector video port	271543
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

**CONFERENCE ROOM
H-AD-5**

CHAPTER 6: HIGH SCHOOL



CAPACITY: 12 – 15 persons
 SIZE: 250 SF

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

**CONFERENCE ROOM
H-AD-5**

CHAPTER 6: HIGH SCHOOL

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816	F1 16'-20' combination marker board, tack board, tackable wall surface	101100
	096813	F2 Reserved	
Base:		F3 4'-6' of base cabinets (optional)	123550
Resilient base	096500	F4 Projection screen (optional)	115213
Ceiling:		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
Walls:		<u>Plumbing:</u>	
Painted gypsum wallboard over metal studs	092116/099100	N/A	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Conference table		Supply/return air system	Div. 23
L2 Chairs		Independent temperature control	230923
Wastebasket		<u>Electrical:</u>	
		Multilevel switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		3 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u>	
		T1 1 projector video port and video display device	271543/274119
		T2 1 voice port and phone	271513/273123
		T3 1 data port	271513
		T4 Ultra-short throw interactive projector	274119
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

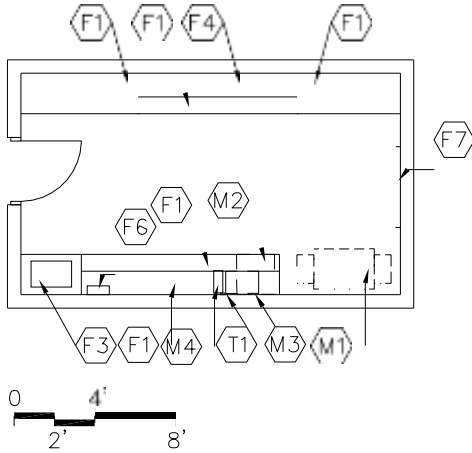
NOTES:

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.

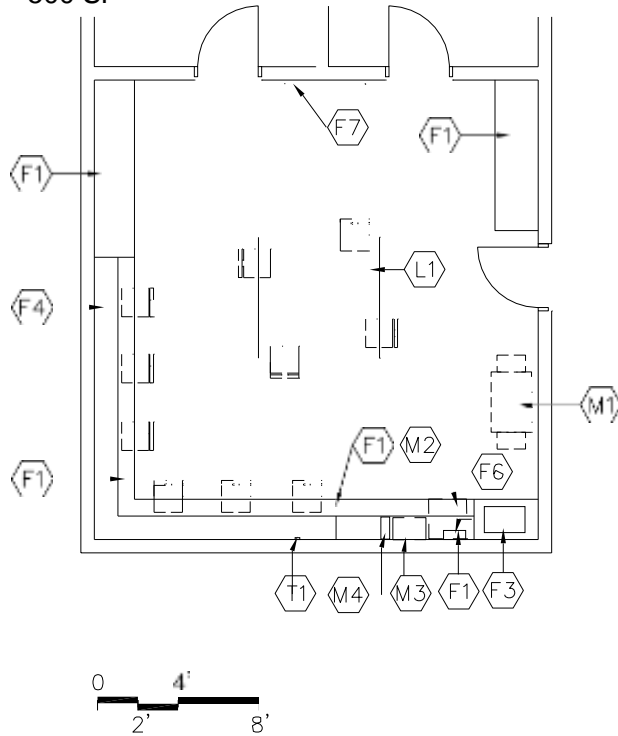
**MAIL/WORK/COPY ROOM
H-AD-6**

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:

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

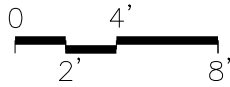
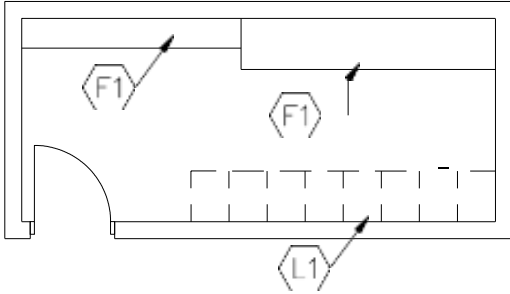
NOTES:

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

**ADMINISTRATIVE STORAGE
H-AD-7**

CHAPTER 6: HIGH SCHOOL

150 SF



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

N/A

CAPACITY: N/A
 SIZE: 150 - 400 SF

NOTES:

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

**ADMINISTRATIVE STORAGE
H-AD-7**

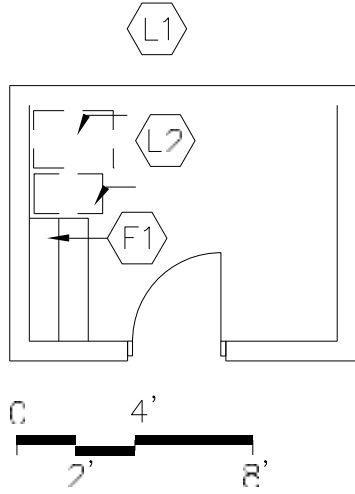
CHAPTER 6: HIGH SCHOOL

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

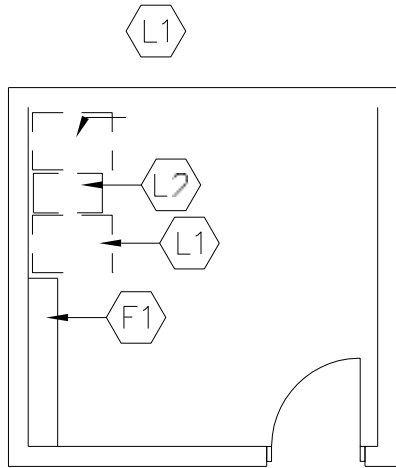
NOTES:

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

85 SF



140 SF



CAPACITY:
SIZE:

N/A
85 - 200 SF

PROGRAM ACTIVITIES:

- Storage of records and security files in a secure area

SPATIAL RELATIONSHIPS:

- Access to guidance area
- Access to secretarial personnel

ENVIRONMENTAL CONSIDERATIONS:

N/A

NOTES:

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

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

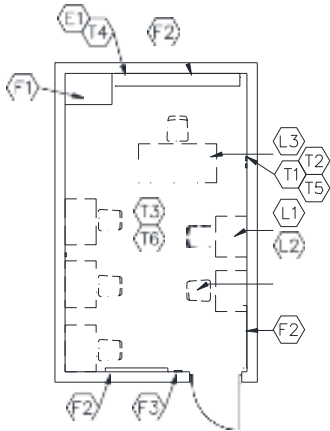
CHAPTER 6: HIGH SCHOOL

	Spec. Ref.#		Spec. Ref.#
FINISHES¹:		FEATURES¹:	
Flooring:		Fixed Items:	
Rubber, carpet, carpet tile,	096500	F1 3'-6' of open shelving,	
linoleum, ET or sheet vinyl	096813	(depth may vary)(fixed or loose)	123550
	096816	Option: mobile storage shelving	105626
	096516		
Base:		Fire Suppression:	
Resilient base	096500	Fire suppression system	211000
Ceiling:		Plumbing:	
Rated 2-hour construction	---	N/A	
Walls:		HVAC:	
Painted concrete masonry units or		To be determined by Design Professional	
	042000/099100		
Painted gypsum wallboard	092116/099100		
Rated 2-hour construction		Electrical:	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		1 duplex receptacle	262726
LOOSE FURNISHINGS:		Communications:	
L1 File cabinet		N/A	
L2 Safe (loose or fixed)		Electronic Safety and Security:	
		N/A	
		Miscellaneous:	
		Wall, ceiling, and door construction to have a	
		2-hour fire rating	

NOTES:

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

200 SF



PROGRAM ACTIVITIES:

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

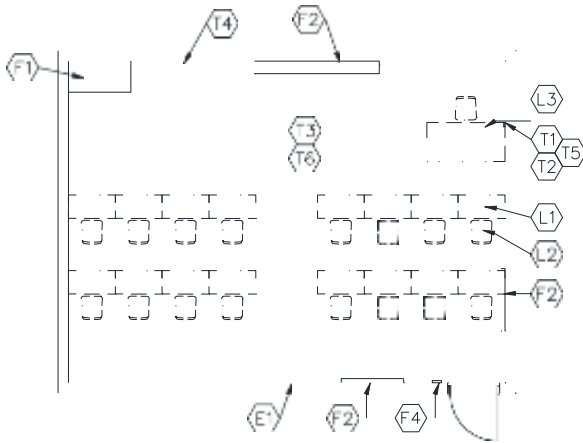
SPATIAL RELATIONSHIPS:

- Near principal's office
- Near secretarial area

ENVIRONMENTAL CONSIDERATIONS:

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

575 SF



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

NOTES:

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

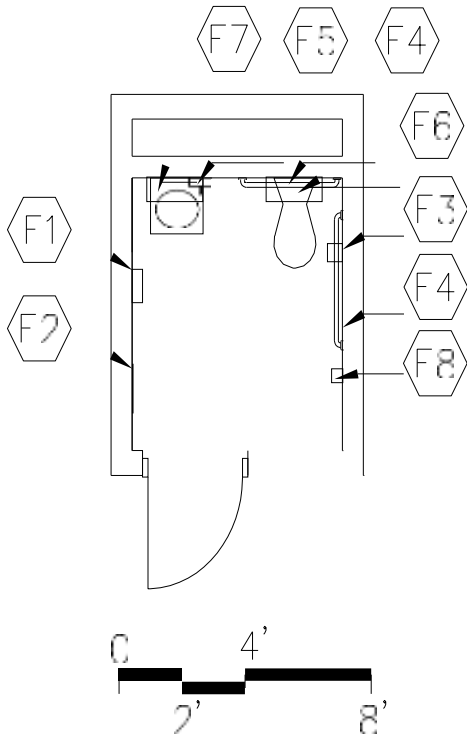
**IN-SCHOOL SUSPENSION
H-AD-9**

CHAPTER 6: HIGH SCHOOL

	Spec. Ref.#		Spec. Ref.#
FINISHES¹:		FEATURES¹:	
Flooring:		Fixed Items:	
Carpet, carpet tile, ET, linoleum, sheet vinyl, or rubber	096816 096500 096516 096813	F1 3'-4' of base cabinets (optional)	123550
		F2 10'-16' combination marker board, tack board, tackable wall surface	101100
		F3 Reserved	
Base:		F4 Pencil sharpener support (optional)	062000
Resilient base	096500		
		Fire Suppression:	
Ceiling:		Fire suppression system	211000
Suspended, acoustical	095113		
		Plumbing:	
Walls:		N/A	
Paint	092113		
		HVAC:	
LOOSE FURNISHINGS:		Supply/return air system	Div. 23
L1 Student carrels and/or desks		Independent temperature control	230923
L2 Student chairs			
L3 Teacher workstation and chair		Electrical:	
L4 Reserved		Single level switching	262726
Wastebasket		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		Communications:	
		T1 1 voice port and phone	271513/273123
		T2 1 data port near teacher workstation	271513
		T3 Wireless access point cable above ceiling	271513
Electronic Safety and Security:		T4 1 projector video port	271543
Life safety devices per code	283111	Clock	275313
		Central sound system	275123
Miscellaneous:		T5 Classroom technology center video port 271543, 274116, 274119, 275127	
Pencil sharpener (optional)		T6 Wireless access point (WAP) as determined by Design – refer to Note 2	272133
E1 Duplex receptacle with dedicated circuit for wireless devices			

NOTES:

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



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Located in the administrative area

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY:
SIZE:

1 person
60 SF

NOTES:

**RESTROOM
H-AD-10**

CHAPTER 6: HIGH SCHOOL

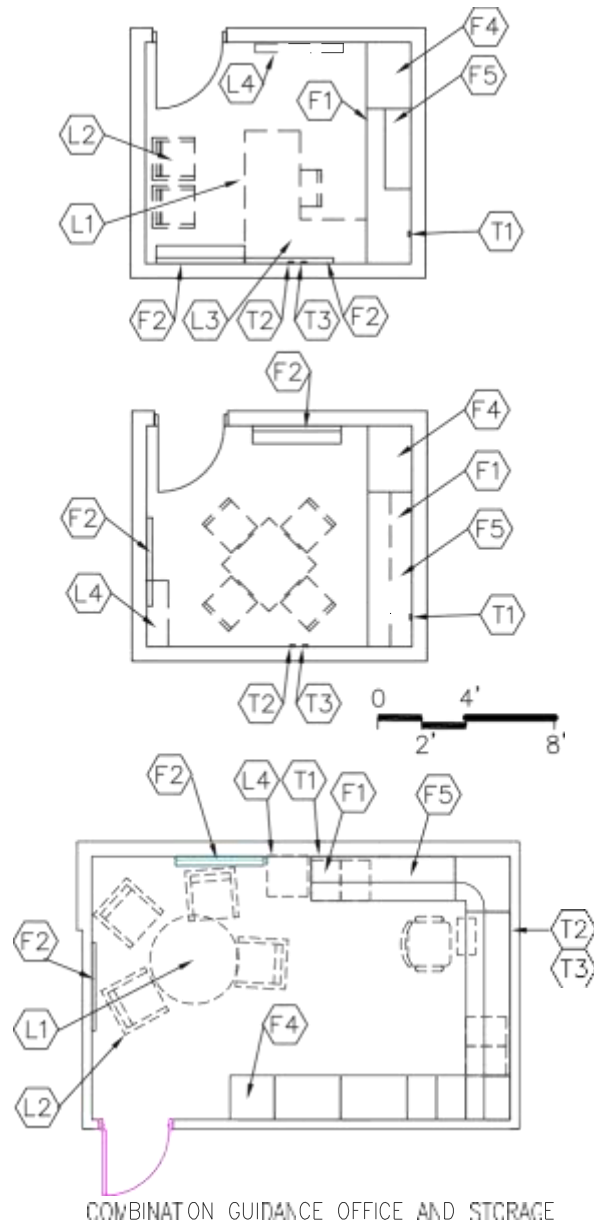
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
ET, ceramic mosaic, porcelain	096516	F1 Towel dispenser	102813
or sheet vinyl	096500	F2 24" x 60" mirror	102813
Optional: resinous flooring	093000	F3 Toilet tissue holder	102813
	096723	F4 36" and 42" grab bar	102813
		F5 Soap dispenser	102813
<u>Base:</u>		F6 8" deep wall cabinet above toilet for supplies (optional)	102813 F7
Resilient base	096500	Stainless steel shelf (optional)	102813 F8
Optional: ceramic mosaic tile, porcelain tile, resinous flooring	093000 096723	Coat hook	102813
<u>Ceiling:</u>		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
<u>Walls:</u>		<u>Plumbing:</u>	
Painted concrete masonry units	042000/099100	Wall-mounted water closet	224000
Optional: moisture & abuse-resistant gypsum wall board	092116/099100	Wall-mounted lavatory	224000
		Plumbing connections	224000/221116/221119
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
Wastebasket		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

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

CHAPTER 6: HIGH SCHOOL



CAPACITY: 1 - 3 persons
SIZE: 120 SF

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

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

CHAPTER 6: HIGH SCHOOL

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816	F1 Work surface with file drawers	123550
	096813	F2 8'-12' combination chalk/marker board, tack board, tackable wall surface	101100
Base:		F3 Reserved	
Resilient base	096500	F4 Tall wardrobe	123550
Ceiling:		F5 Wall cabinets	123550
Suspended, acoustical	095113	<u>Fire Suppression:</u>	
Walls:		Fire suppression system	211000
Painted gypsum wallboard over metal studs	092116/099100	<u>Plumbing:</u>	
<u>LOOSE FURNISHINGS:</u>		N/A	
L1 Desk or table, with chair		<u>HVAC:</u>	
L2 Visitor chairs		Supply/return air system	Div. 23
L3 Computer desk return		Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
L4 Bookcase (fixed or loose)		<u>Electrical:</u>	
Wastebasket		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u>	
		T1 1 projector video port	271543
		T2 1 voice port and phone	271513/273123
		T3 1 data port near workstation	271513
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

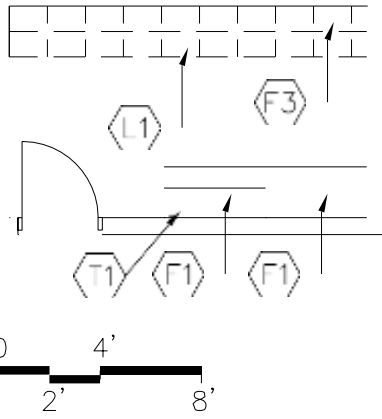
NOTES:

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

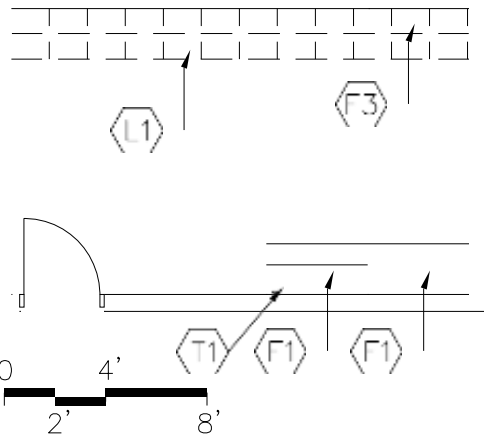
**GUIDANCE RECORDS/STORAGE
H-AD-12**

CHAPTER 6: HIGH SCHOOL

100 SF



200 SF



CAPACITY: N/A
 SIZE: 100 - 300 SF

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

N/A

NOTES:

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

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

CHAPTER 6: HIGH SCHOOL

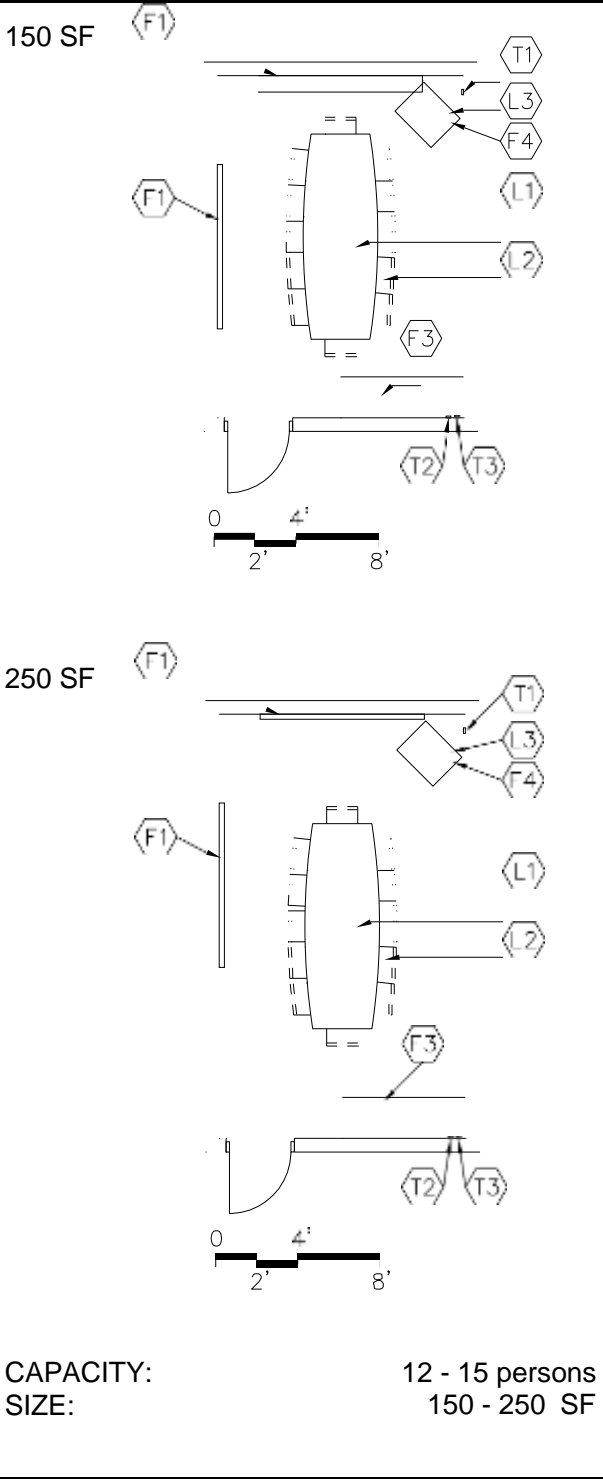
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Rubber, carpet, carpet tile, linoleum, ET, or sheet vinyl	096500 096813 096816 096516	F1 6'-10' combination wall and base cabinets and tall cabinets	123550
<u>Base:</u>		F2 Reserved	
Resilient base	096500	Option: mobile storage shelving or file cabinets	105626
<u>Ceiling:</u>		F3 4'-10' shelving (optional)	123550
Rated 2-hour construction	---	<u>Fire Suppression:</u>	
<u>Walls:</u>		Fire suppression system	211000
Painted gypsum wallboard over metal studs or	092116/099100	<u>Plumbing:</u>	
Painted concrete masonry units	042000/099100	N/A	
Rated 2-hour construction		<u>HVAC:</u>	
<u>LOOSE FURNISHINGS:</u>		To be determined by Design Professional	
L1 File cabinets		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		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



- PROGRAM ACTIVITIES:**
- Conferences with staff, students, parents, and other community groups
- SPATIAL RELATIONSHIPS:**
- Near guidance counselors office
 - Near principal's office
 - Near reception area
 - Near guidance records/storage area
- ENVIRONMENTAL CONSIDERATIONS:**
- Environmental sound control - wall minimum STC 45
ceiling minimum CAC 35, NRC 0.70
 - Optional – window with integral blinds

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

NOTES:

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

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

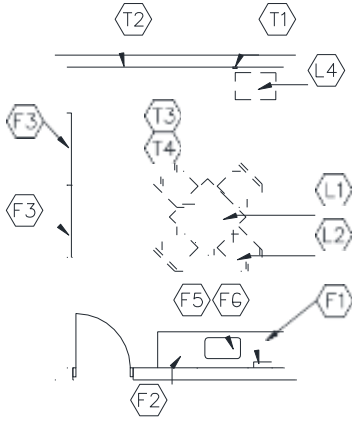
CHAPTER 6: HIGH SCHOOL

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816	F1 10'-16' combination marker board,	101100
	096813	tack board, tackable wall surface	
<u>Base:</u>		F2 Reserved	
Resilient base	096500	F3 4'-6' of base cabinets	123550
<u>Ceiling:</u>		F4 Technology support casework	123550
Suspended, acoustical	095113	(optional)	
<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>		N/A	
L1 Conference table		<u>HVAC:</u>	
L2 Chairs		Supply/return air system	Div. 23
L3 Monitor cart or cabinet		Independent temperature control	230923
(could be fixed casework)		<u>Electrical:</u>	
Wastebasket		Multilevel switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		3 duplex receptacles	262726
		Double duplex receptacle adjacent	
		to each data and video port	262726
		<u>Communications:</u>	
		T1 1 projector video port and video display	
		device	271543/274119
		T2 1 voice port and phone	271513/273123
		T3 1 data port	271513
		Clock	275313
		Central sound system	275123
		<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.

200 SF



PROGRAM ACTIVITIES:

- After school meetings, community, and small group meetings

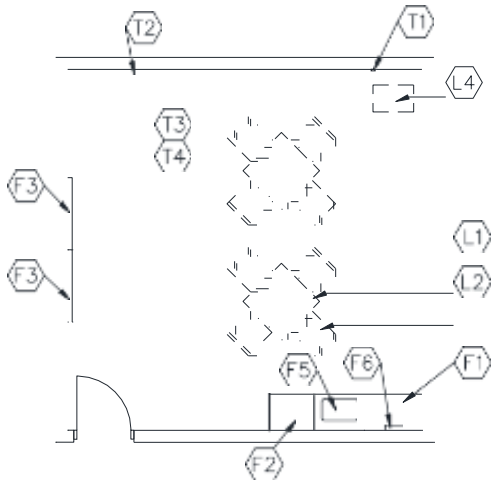
SPATIAL RELATIONSHIPS:

- Near administrative area

ENVIRONMENTAL CONSIDERATIONS:

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

400 SF



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

NOTES:

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

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

CHAPTER 6: HIGH SCHOOL

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816	F1 About 3' of base cabinets	123550
	096813	F2 Tall wardrobe or coat cabinet (optional)	123550
Base:		F3 8'-12' combination marker board, tack board, and tackable wall surface	101100
Resilient base	096500	F4 Pencil sharpener support (optional)	062000
Ceiling:		F5 3' sink base cabinet	123550
Suspended, acoustical	095113	F6 Towel dispenser	102813
Walls:		<u>Fire Suppression:</u>	
Painted gypsum wallboard over metal studs	092116/099100	Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Table		Sink	224000
L2 Chairs		Plumbing connections	224000/221116/221119
L3 Reserved		<u>HVAC:</u>	
L4 Monitor cart		Supply/return air system	Div. 15
Wastebasket		Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u>	
<u>Miscellaneous:</u>		T1 Reserved	
Pencil sharpener (optional)		T2 voice port with phone	271513/273123
<u>Electronic Safety and Security:</u>		T3 Wireless access point cable above ceiling	271513
Life safety devices per code	283111	T4 Wireless access point (WAP) as determined by design – refer to note 2	
		271533	
		Clock	275313
		Central sound system	275123

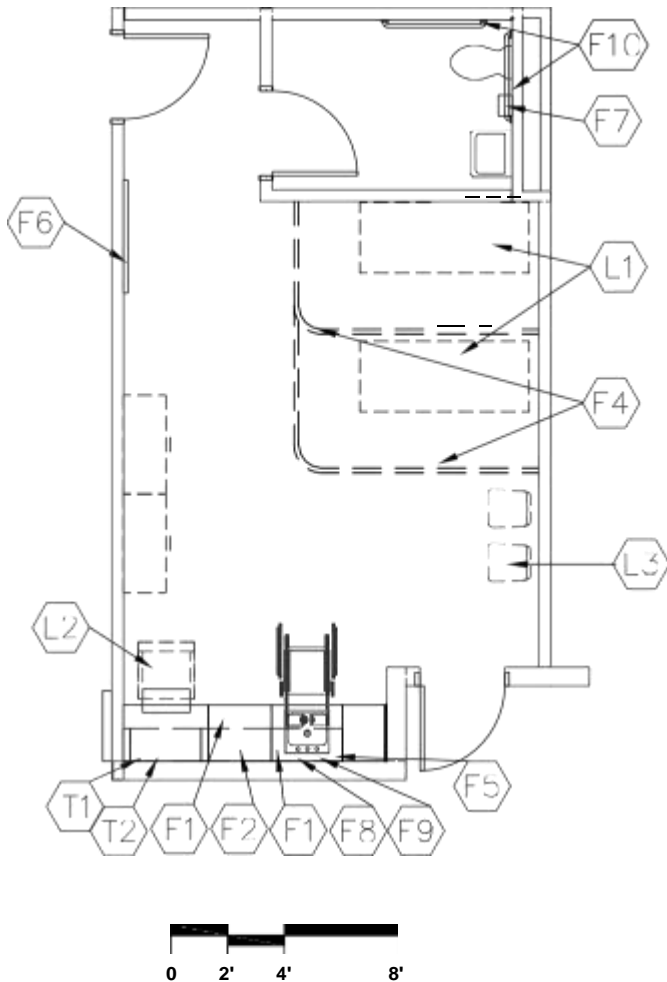
NOTES:

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

**HEALTH CLINIC (includes restroom)
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:

- 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

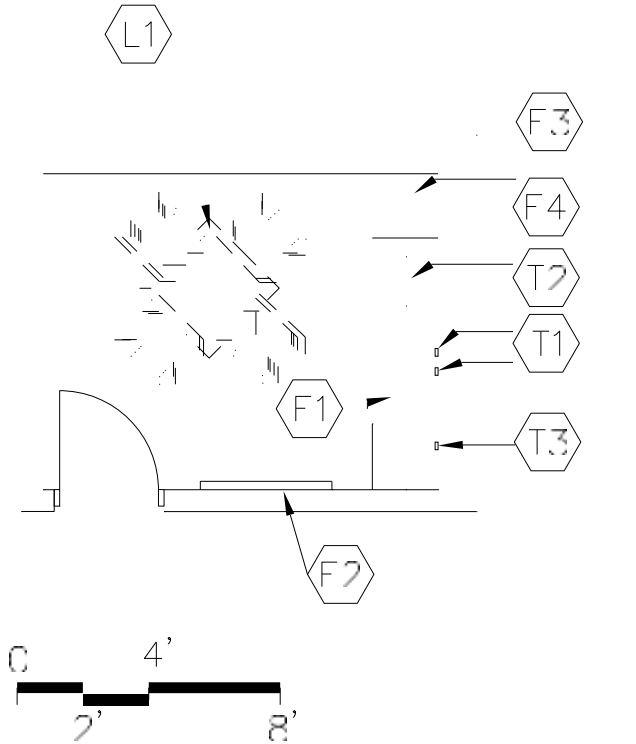
	Spec. Ref.#		Spec. Ref.#
FINISHES¹:		FEATURES¹:	
Flooring:		<u>Fixed Items:</u>	
ET, sheet vinyl, or resinous flooring	096516 096500 096723 093000	F1 8'-18' combination base and wall cabinets, lockable	123550
Restroom: ET, sheet vinyl, resinous flooring, ceramic mosaic, or porcelain tile		F2 3' sink base cabinet	123550
		F3 Reserved	
Base:		F4 Cubicle curtain and track	102123
Resilient base, resinous flooring, integral vinyl cover base, or ceramic mosaic, or porcelain tile	096500 096730	F5 Towel dispenser	102813
		F6 4' of tack board	101100
Ceiling:		F7 Sanitary napkin dispenser/disposal	102813
Suspended, acoustical	095113	F8 Soap dispenser	102813
		F9 24" x 60" mirror	102813
Walls:		F10 36" and 42" grab bars	102813
Painted gypsum wallboard over metal studs	092116/099100	<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Cots		Wall-mounted water closet	224000
L2 Desk and chair		Wall-mounted lavatory	224000
		Sink - with goose neck	224000
L3 Chairs		Plumbing connections	224000/221116/221119
Wastebasket		<u>HVAC:</u>	
		Supply/return air system	Div. 23
<u>EQUIPMENT</u>		Independent temperature control	230923
E1 Refrigerator with ice making capabilities		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 8600-5	
		2 duplex receptacles	262726
		Double duplex receptacle adjacent to each data port	262726
		Receptacle for refrigerator	262726
		Emergency lighting	265100
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/ 273123
		T2 1 data port near workstation	271523
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111

NOTES:

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

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

CHAPTER 6: HIGH SCHOOL



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

APACITY: 1 - 3 persons
 SIZE: 120 SF

NOTES:

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

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

CHAPTER 6: HIGH SCHOOL

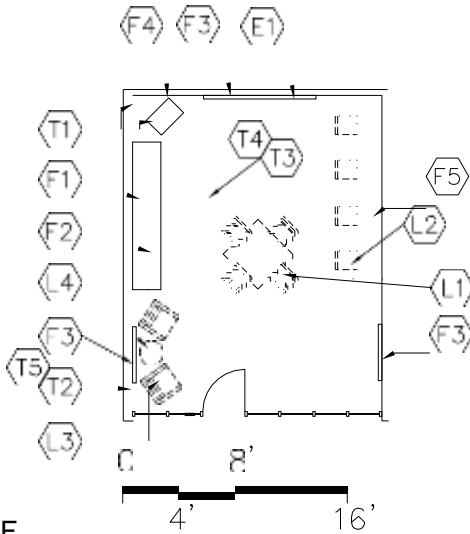
	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816	F1 Work surface with file drawers(optional)	123550
	096813	F2 4' of tack board	101100
		or tackable wall surface	
Base:		F3 Tall wardrobe (optional)	123550
Resilient base	096500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

NOTES:

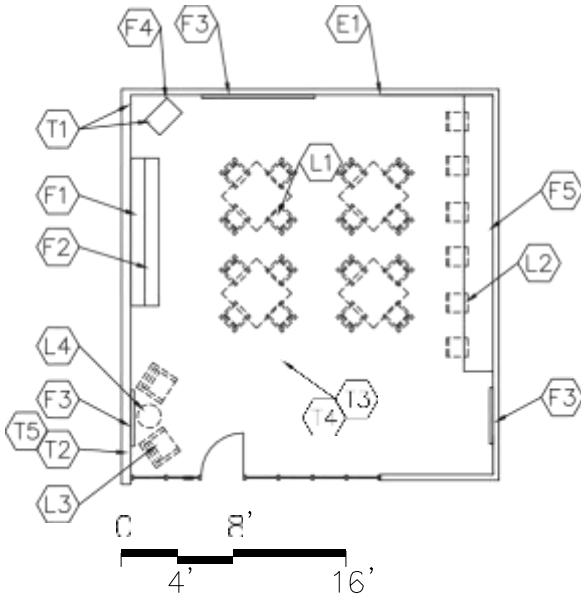
1. Finishes/Features: Refer to Chapter 9 for specification references. Optional: moveable cabinets
2. Fixed casework and loose furnishings can also be all fixed casework or all loose furnishings.

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:

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

NOTES:

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

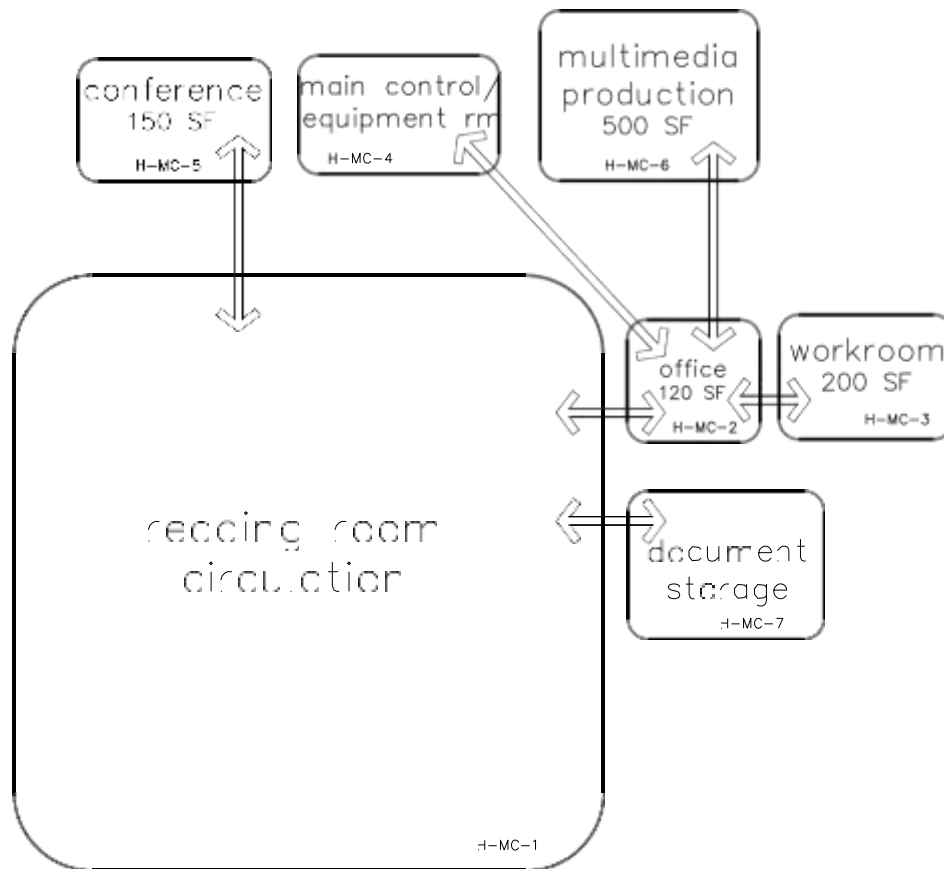
**CAREER CENTER
H-AD-17**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816	F1 8'-16' display cabinets	123550
	096813	F2 About 9' base cabinets	123550
<u>Base:</u>		F3 12'-16' combination marker board,	101100
Resilient	096500	tack board, tackable wall surface	
<u>Ceiling:</u>		F4 Technology support casework	123550
Suspended, acoustical	095113	F5 Workstation	123550
<u>Walls:</u>		<u>Fire Suppression:</u>	
Painted concrete masonry units	042000/099100	Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 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	
Wastebasket		control	230923
<u>Electronic Safety and Security:</u>		<u>Electrical:</u>	
Life safety devices per code	283111	Fluorescent lighting:	265100
<u>Miscellaneous:</u>		Illumination level: See Table 8600-5	
E1 Duplex receptacle with dedicated		Multilevel switching	262726
circuit for wireless devices		4 duplex receptacles	262726
		Double duplex receptacles adjacent to	
		each data and video port	262726
		<u>Communications:</u>	
		T1 1 projector video port and video display	
		device	271543/274119
		T2 1 voice port	271513/273113
		T3 Wireless access point cable above ceiling	
			271513
		Clock	275313
		Central sound system	275123
		T4 Wireless access point (WAP) as	
		determined by Design – refer to Note 4	
			272133
		T5 Classroom technology center video port	
			271543, 274116, 274119, 275127

NOTES:

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

**NOTE:**

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

Following are the Media Center space plates:

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

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

CHAPTER 6: HIGH SCHOOL

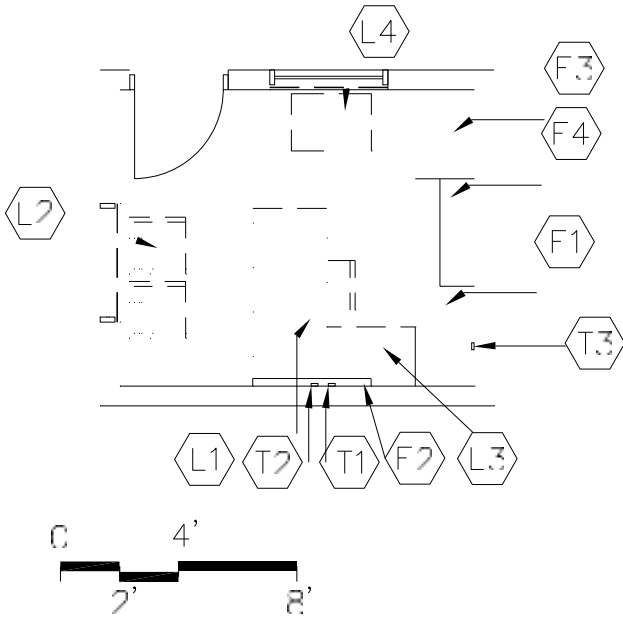
<u>FINISHES</u> ¹ :	Spec. Ref.#	<u>FEATURES</u> ¹ : <u>Fixed Items</u> :	Spec. Ref.#
Flooring:		F1 Circulation desk casework	123550
Carpet or Carpet Tile	096816	F2 12'-20' combination marker	101100
	096813	board, tack board, tackable wall surface	
Base:		F3 Library book shelving (see notes)	115123
Resilient base	096500	F4 Interior windows	081113/088000
		F5 Windows with integral blinds or shades	085113
Ceiling:		F6 Pencil sharpener support (optional)	062000
Suspended, acoustical	095113	F7 Projection screen (optional)	115213
		F8 Technology support casework	123550
Walls:		F9 Search station terminals	123550
Painted concrete masonry units		Roller window shades (optional)	122413
Acoustical wall treatment	042000/099100 098000	<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>LOOSE FURNISHINGS</u> ² :		<u>Plumbing:</u>	
L1 Mobile book carts		N/A	
L2 Student tables		<u>HVAC:</u>	
L3 Student chairs		Supply/return air system	Div. 23
L4 Casual seating chairs		Independent temperature control	230923
L5 Study carrels (optional)		<u>Electrical:</u>	
L6 (3) Desk height file cabinets		Fluorescent lighting:	265100
L7 Atlas stand (optional)		Illumination level: See Table 8600-5	
L8 Computer workstation furniture		Multilevel switching	262726
L9 Dictionary stand (optional)		10 duplex receptacles	262726
L10 Circulation desk task chair		Double duplex receptacle adjacent to	
L11 Paperback book racks		each data and video port	262726
L12 Newspaper racks		Emergency lighting per code	265100
L13 Magazine display		Means of egress lighting per code	265100
Wastebaskets		<u>Communications:</u>	
<u>Electronic Safety and Security:</u>		T1 1 projector video port and video display device	271543/274119
Life safety devices per code	283111	T2 1 voice port and phone at	
		circulation desk	271513/273123
<u>Miscellaneous:</u>		T3 2 data ports for media center automation	
Pencil sharpener (optional)		system	271513
The following items are to be funded by the owner:		T4 Wireless access point cable above ceiling	271513
M1 2 printers: 1 at circulation desk and		Clock	275313
1 in student work area		Central sound system	275123
M2 Copier		T5 Classroom technology center video port	
		271543, 274116, 274119, 275127	
E1 Duplex receptacle with dedicated		T6 Wireless access point (WAP) as	
circuit for wireless devices		determined by Design – refer to Note 6.	272133

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Circulation desks and library shelving can be loose furnishings.
3. Technology components maybe be placed in a separate small cabinet, or integrated in the other casework in the room.
4. Fixed casework and loose furnishings can be interchangeable.

5. Up to 20% of book shelving can be moveable.

6. Baseline includes WAP cable. WAP device quantity / placement per 272133 requirements.



PROGRAM ACTIVITIES:

- Media specialist to conduct duties

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY: 1 - 3 persons
SIZE: 120 SF

NOTES:

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

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

CHAPTER 6: HIGH SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816	F1 Work surface with file drawers	123550
	096813	F2 4' of tack board or tackable wall surface	101100
<u>Base:</u>		F3 Tall wardrobe	123550
Resilient base	096500	F4 Wall cabinets	123550
<u>Ceiling:</u>		F5 Bookcases (optional)	123550
Suspended, acoustical	095113	<u>Fire Suppression:</u>	
<u>Walls:</u>		Fire suppression system	211000
Painted concrete masonry units	042000/099100	<u>Plumbing:</u>	
		N/A	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Desk and chair		Supply/return air system	Div. 23
L2 Visitor chairs		Independent temperature control	230923
L3 Computer desk return		(coupled with similarly loaded adjacent spaces)	
L4 File cabinet		<u>Electrical:</u>	
Wastebasket		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to data and video port	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/273123
		1 data port near workstation	271513
		T3 1 projector video port	271543
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Interior window	081113/088000

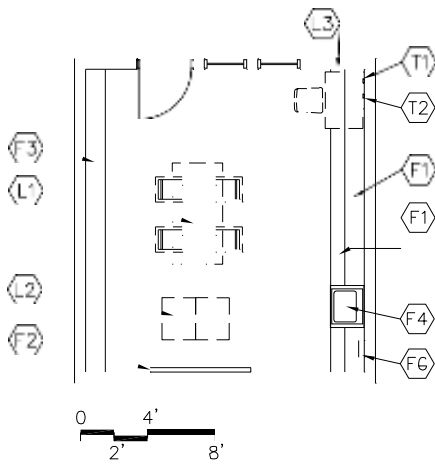
NOTES:

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

300 SF



PROGRAM ACTIVITIES:

- Space for receiving, processing, and repairing media material

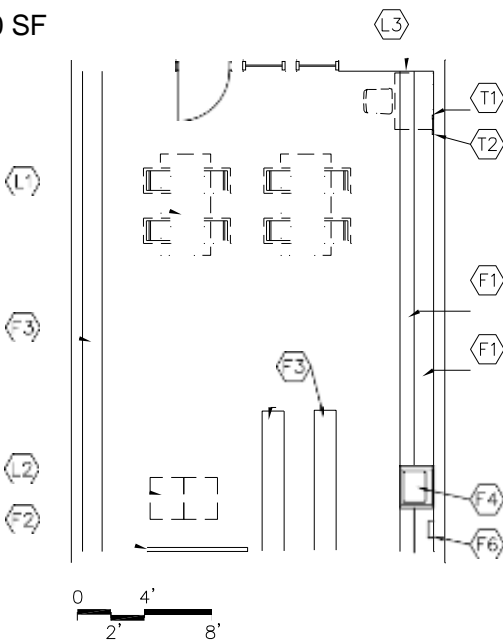
SPATIAL RELATIONSHIPS:

- Near reading room/circulation
- Near media specialist office

ENVIRONMENTAL CONSIDERATIONS:

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

600 SF



CAPACITY:
SIZE:

2 - 8 staff
300 - 700 SF

NOTES:

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

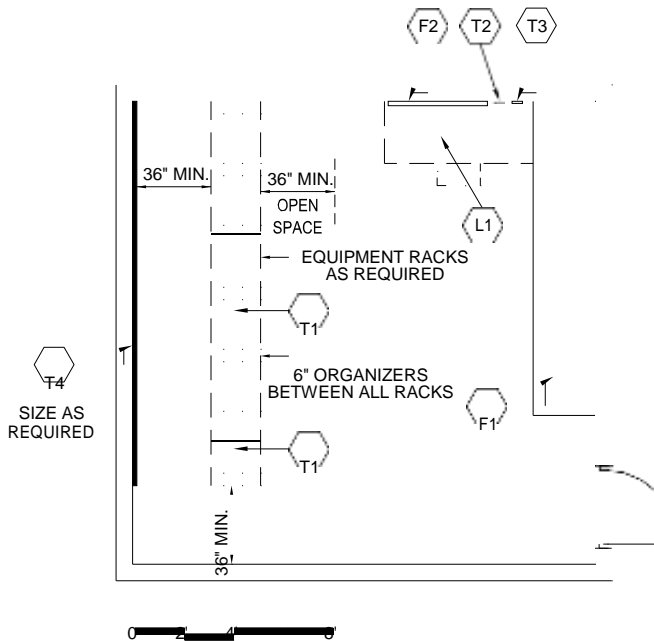
**WORKROOM/STORAGE
H-MC-3**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items²:</u>	
Linoleum , rubber, ET or sheet	096500	F1 26'-50' combination base, wall	123550
Vinyl	096516	and tall cabinets	
Option: Carpet, carpet tile	096813	F2 4'-8' of tack board or marker board	101100
	096816	F3 16'-60' of bookcases	123550
		F4 3' sink base cabinet	123550
<u>Base:</u>		F5 Reserved	
Resilient base	096500	F6 Towel dispenser	102813
<u>Ceiling:</u>		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
<u>Walls:</u>		<u>Plumbing:</u>	
Painted concrete masonry units	042000/099100	Sink	224000
		Plumbing connections	224000/221116/221119
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Table and chairs		Supply/return air system	Div. 23
L2 Book trucks		Independent temperature control	230923
L3 Computer workstation		(coupled with similarly loaded	
Wastebasket		adjacent spaces)	
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		3 duplex receptacles	262726
		Double duplex receptacle adjacent to	
		each data port	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/ 273123
		T2 1 data port	271513
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Interior window	081113/088000

NOTES:

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



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

- Ventilation and cooling of heat-generating electronic equipment

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

CAPACITY: N/A
 SIZE: **(Baseline) (Minimum)** 300 - 400 SF

ER Utilized for local serving zone – add minimum 80 SF

ER Utilized as district N.O.C. – add minimum 150 SF

ER Utilized as building data center for central servers/thin client – add minimum 30 SF per 10 classrooms

NOTES:

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

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

CHAPTER 6: HIGH SCHOOL

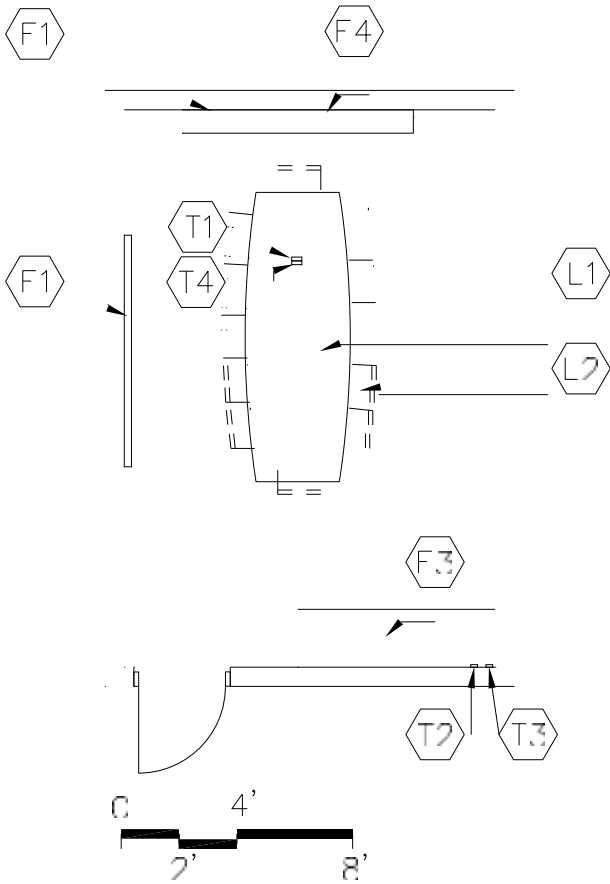
	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<u>Fixed Items:</u>	
ET or sheet vinyl	096500	F1 8'-16' of open shelving, depth may vary (fixed or loose)	123550
Base:		F2 4' of tack board or marker board	101100
Resilient base	096500	<u>Fire Suppression:</u>	
Ceiling:		Fire suppression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

- 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

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<u>Fixed Items²:</u>	
Carpet or Carpet Tile	096816	F1 14'-18' combination marker board, tack board and tackable wall surface	101100
	096813	F2 Reserved	
Base:		F3 4'-6' of base cabinets (optional) (fixed or mobile)	123550
Resilient base	096500	F4 Projection screen (optional)	115213
Ceiling:		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
Walls:		<u>Plumbing:</u>	
Painted concrete masonry units	042000/099100	N/A	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Conference table		Supply/return air system	Div. 23
L2 Chairs		Independent temperature control	230923
Wastebasket		<u>Electrical:</u>	
		Multilevel switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		3 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u>	
		T1 1 projector video port	271543
		T2 1 voice port and phone	271513/273123
		T3 1 data port	271513
		T4 Ultra-short throw interactive projector	274119
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

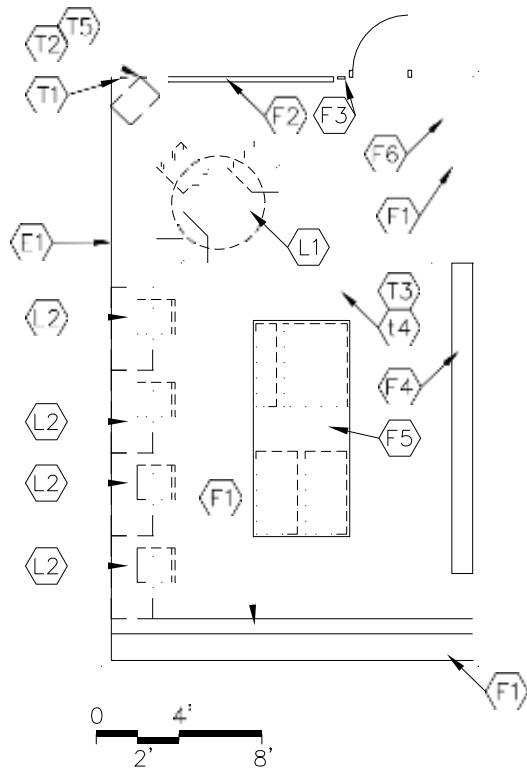
NOTES:

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

500 SF



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

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Near workroom/storage
- Near media center

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

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

CHAPTER 6: HIGH SCHOOL

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<u>Fixed Items²:</u>	
Linoleum,	096500	F1 15'-45' combination base, wall and	
ET, sheet vinyl, or rubber	096516	tall cabinets	123550
Base:		F2 4'-8' of tack board or marker board	101100
Resilient base	096500	F3 Pencil sharpener support (optional)	062000
Ceiling:		F4 4' - 16' of tall bookcases	123550
Suspended, acoustical	095113	F5 Work surface	123550
Walls:		F6 Technology support casework	123550
Painted concrete masonry units		(if applicable)	
042000/099100		<u>Fire Suppression:</u>	
<u>LOOSE FURNISHINGS:</u>		Fire suppression system	211000
L1 Tables and chairs/stools		<u>Plumbing:</u>	
L2 Computer workstation furniture		N/A	
Wastebasket		<u>HVAC:</u>	
<u>Electronic Safety and Security:</u>		Supply/return air system	Div. 23
Life safety devices per code	283111	Independent temperature control	230923
<u>Miscellaneous:</u>		<u>Electrical:</u>	
Pencil sharpener (optional)		Multilevel switching	262726
Interior windows for supervision (optional)	081113/088000	Fluorescent lighting	265100
The following items to be provided by the		Illumination level: See Table 8600-5	
school district:		4 duplex receptacles	262726
Copier, scanner, printers, binders,		Double duplex receptacle adjacent	
laminators		to each data and video port	262726
E1 Duplex receptacle with dedicated		<u>Communications:</u>	
circuit for wireless devices		T1 1 projector video port and video display	
		device	271543/274119
		T2 1 voice port and phone	271513/273123
		T3 Wireless access point cable above	
		ceiling	271513
		Clock	275313
		Central sound system	275123
		T4 Wireless access point (WAP) as	
		determined by Design – refer to Note 3	
		272133	
		T5 Classroom technology center video port	
		271543, 274116, 274119, 275127	

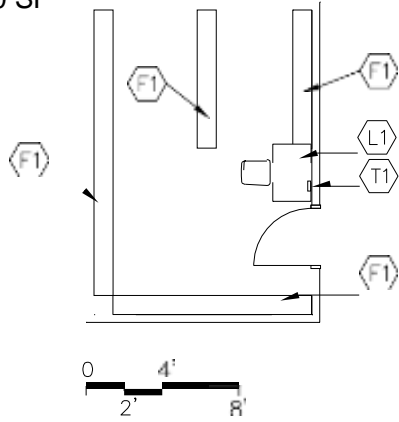
NOTES:

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

**DOCUMENT STORAGE
H-MC-7**

CHAPTER 6: HIGH SCHOOL

200 SF



PROGRAM ACTIVITIES:

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

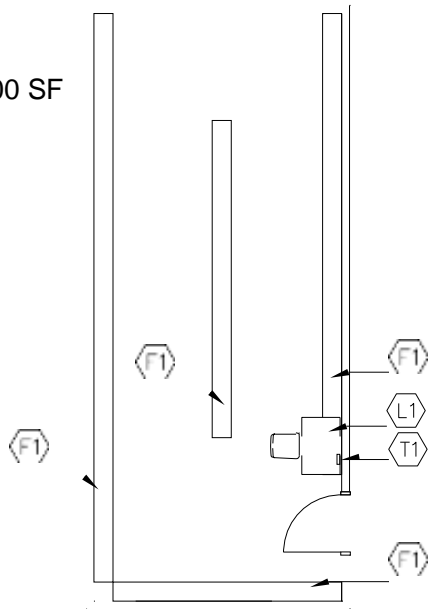
SPATIAL RELATIONSHIPS:

- Near reading room/circulation

ENVIRONMENTAL CONSIDERATIONS:

N/A

400 SF



CAPACITY:
SIZE:

N/A
200 - 500 SF

NOTES:

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

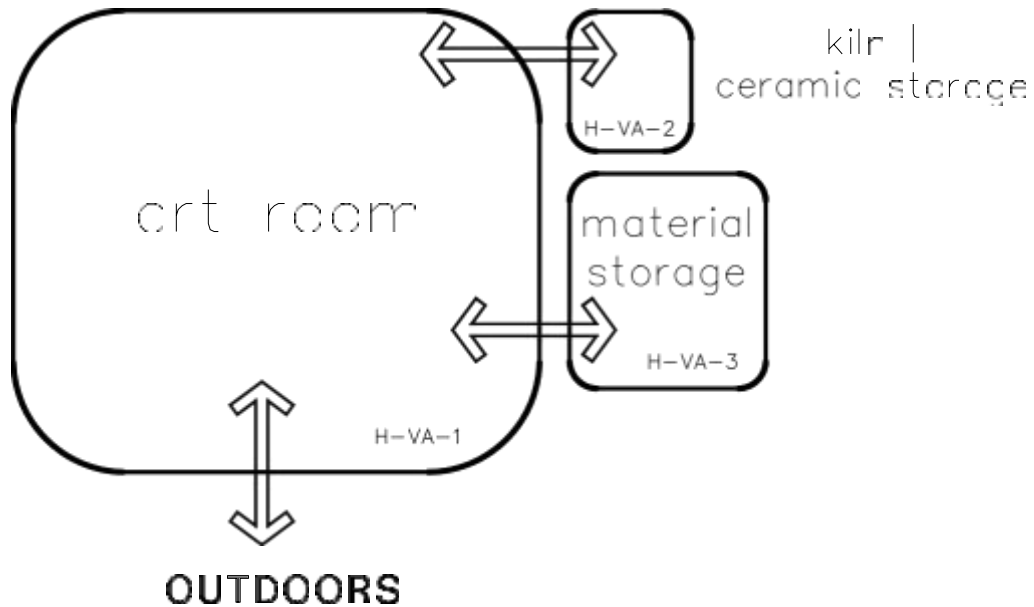
**DOCUMENT STORAGE
H-MC-7**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES:</u>	Spec. Ref.#
<u>Flooring:</u> <i>Linoleum</i> , rubber, <i>ET</i> , <i>sheet vinyl</i>	096500 096516	<u>Fixed Items²:</u> F1 36' – 80' of open shelving (fixed or loose) Option: mobile storage shelving	123550 105626
<u>Base:</u> Resilient base	096500	<u>Fire Suppression:</u> Fire suppression system	211000
<u>Ceiling:</u> Suspended, acoustical	095113	<u>Plumbing:</u> N/A	
<u>Walls:</u> Painted concrete masonry units	042000/099100	<u>HVAC:</u> To be determined by Design Professional Supplemental heat as required	Div. 23
<u>LOOSE FURNISHINGS:</u> L1 Computer worksurface		<u>Electrical:</u> Fluorescent lighting: Illumination level: See Table 8600-5 Single level switching 2 duplex receptacles	265100 262726 262726
		<u>Communications:</u> T1 1 data port (optional)	271523
		<u>Electronic Safety and Security:</u> N/A	
		<u>Miscellaneous:</u> N/A	

NOTES:

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

**NOTE:**

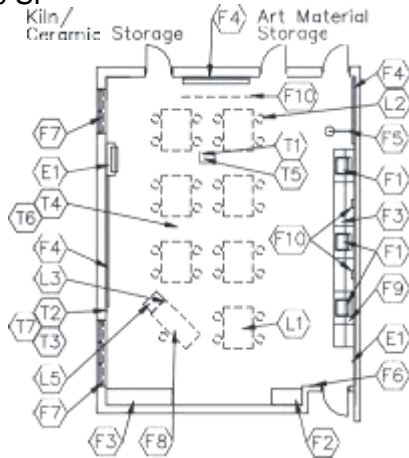
This is an example of how the visual arts spaces in a high school could be arranged. This is meant only to demonstrate the relationships between various areas of the building.

Following are the Visual Art space plates:

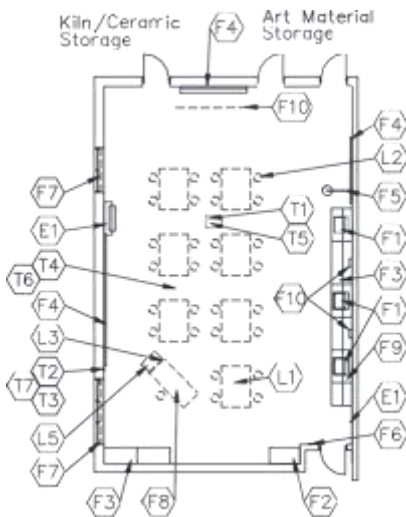
- H-VA-1 Art Room
- H-VA-2 Kiln/Ceramic Storage
- H-VA-3 Art Material Storage

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1200 SF



1400 SF



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

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

**ART ROOM
H-VA-1**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</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
sealed concrete,	033000	F2 Tall wardrobe with file drawers	123550
polished concrete finishing, or	033510	F3 16'-22' combination base, wall and	123550
colored concrete finishing	033519	tall cabinets	
<u>Base:</u>		F4 22'-36' combination marker board,	101100
Resilient base	096500	tack board, tackable wall surface	
<u>Ceiling:</u>		F5 Emergency eyewash	224000
Suspended, acoustical	085113	F6 Pencil sharpener support(optional)	062000
<u>Walls:</u>		Windows with integral blinds	085113
Paint	099100	F8 Technology support casework	123550
<u>LOOSE FURNISHINGS:</u>		F9 Towel dispenser	102813
L1 Student work tables		F10 Projection screen (optional)	115213
L2 Student chairs or stools		<u>Fire Suppression:</u>	
L3 Teacher desk and chair and teacher		Fire suppression system	211000
computer support		<u>Plumbing:</u>	
L4 Reserved		Sinks with solids interceptor	224000
L5 Desk height file cabinet		Plumbing connections	224000/221116/221119
Wastebasket		Emergency eyewash connections	224000
<u>EQUIPMENT</u>		<u>HVAC:</u>	
E1 Drying rack		Supply/return air system	Div. 23
		Independent temperature control	230923
		Manually controlled general exhaust	Div. 23
		<u>Electrical:</u>	
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		Multilevel switching	262726
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to	
		each data and video port	262726
		Track lighting (optional)	265100
		Means of egress lighting per code	265100
		Emergency lighting per code	265100
		Power for potters wheels	262726
		<u>Communications:</u>	
		T1 1 projector video port	271543
		T2 1 voice port and phone	271513/273123
		T3 1 data port	
		near teacher workstation	271513
		T4 Wireless access point cable above ceiling	
		Clock	271513
		Central sound system	275123
		Sound reinforcement system	275127
		T5 Overhead projector	274119
		T6 Wireless access point (WAP) as	
		determined by Design – refer to Note 3	272133
		T7 Classroom technology center video port	
		271543, 274116, 274119, 275127	

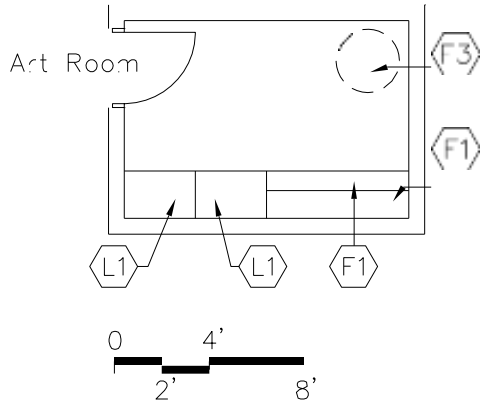
NOTES:

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

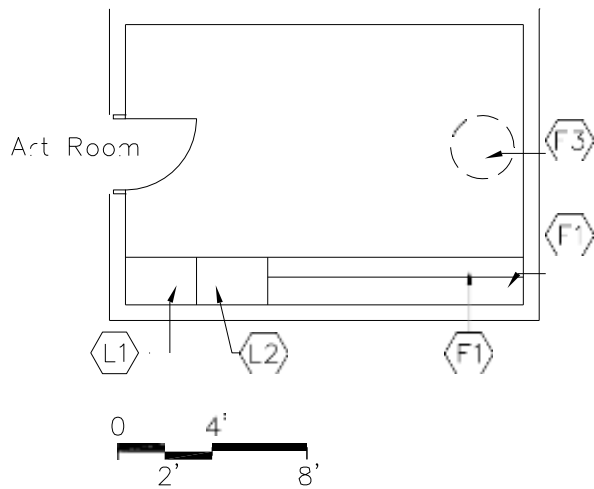
**KILN/CERAMIC STORAGE
H-VA-2**

CHAPTER 6: HIGH SCHOOL

100 SF



200 SF



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

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Adjacent to art room
- Near art material storage

ENVIRONMENTAL CONSIDERATIONS:

- Ventilation controlled by a thermostat

NOTES:

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

CHAPTER 6: HIGH SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
<i>ET, sheet vinyl, sealed concrete,</i>	033000	F1 <i>6'-12' combination base and wall cabinets</i>	123550
polished concrete finishing, or	033510	F2 <i>Reserved</i>	
colored concrete finishing	033519	F3 Kiln	119200
<u>Base:</u>		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
<u>Ceiling:</u>		<u>Plumbing:</u>	
Suspended, acoustical	095113	N/A	
<u>Walls:</u>		<u>HVAC:</u>	
Painted concrete masonry units		Temperature controlled exhaust	Div. 23
042000/099100		Ventilation for kiln	Div. 23
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
L1 3' of tall dry storage units (total)		Single level switching	262726
L2 3' of tall damp storage units (total)		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
L1 and L2 could be fixed casework.		1 duplex receptacle	262726
		Electrical connection for kiln	262726
		<u>Communications:</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

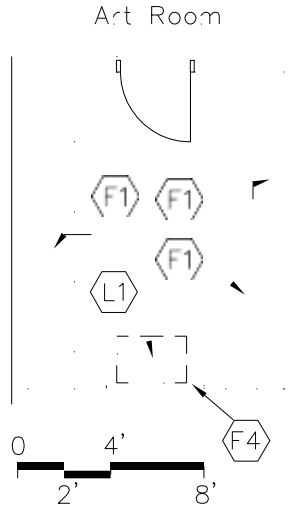
NOTES:

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

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

CHAPTER 6: HIGH SCHOOL

200 SF



PROGRAM ACTIVITIES:

- Storage of art supplies and materials

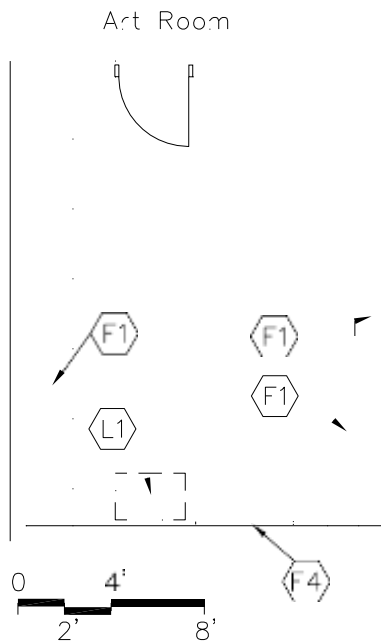
SPATIAL RELATIONSHIPS:

- Adjacent to art room

ENVIRONMENTAL CONSIDERATIONS:

- Stain-resistant floor covering

300 SF



CAPACITY:

SIZE:

ANCILLARY SPACES:

N/A
200 - 400 SF
Art Room
H-VA-1

NOTES:

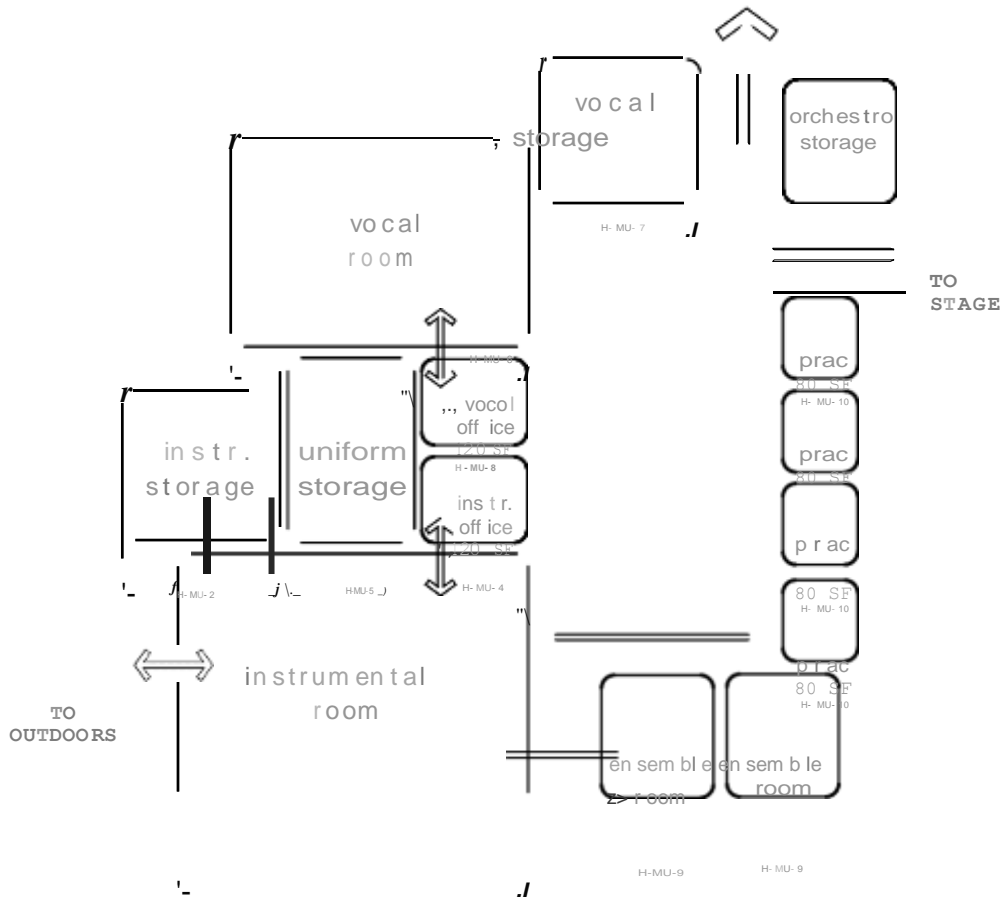
**ART MATERIAL STORAGE
H-VA-3**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items²:</u>	
ET, sealed concrete, rubber,	096500	F1 16' – 28' combination tall storage	123550
sheet vinyl,	033000	cabinets and wall cabinets	
polished concrete finishing, or	033510	F2 8' - 14' base cabinets,	
colored concrete finishing	033519	(depth for school's need)	123550
<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	Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
L1 Mobile materials cart		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		Duplex receptacle above base cabinet	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



NOTES:

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

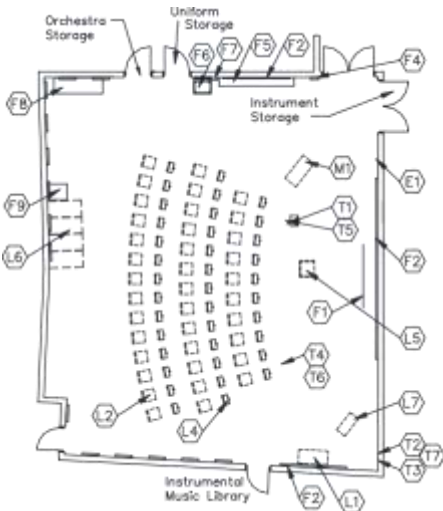
- Following are the Music space plates:
- H-MU-1 Instrumental Room
 - H-MU-2 Instrument Storage
 - H-MU-3 Orchestra Storage
 - H-MU-4 Instrumental Music Library
 - H-MU-5 Uniform Storage
 - H-MU-6 Vocal Room
 - H-MU-7 Vocal Storage
 - H-MU-8 Vocal Music Library
 - H-MU-9 Ensemble Room
 - H-MU-10 Practice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

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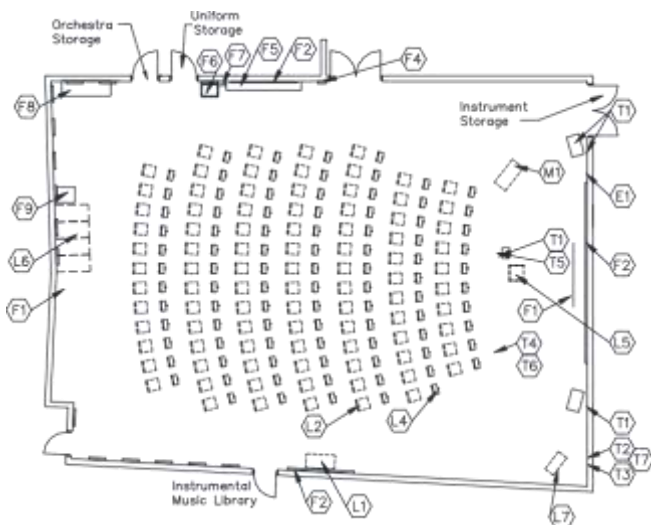
**INSTRUMENTAL ROOM
H-MU-1**

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:

- 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>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet, carpet tile,	096500	F1 Projection screen (optional)	115213
linoleum, rubber, ET,	096516	F2 12'-32' combination marker board,	
or sheet vinyl	096816	tack board & tackable wall surface	101100
	096813	F3 Technology support casework	123550
		F4 Pencil sharpener support (optional)	062000
		F5 4'-9' of bookcases (see note 3)	123550
<u>Base:</u>		F6 3' sink base cabinet	123550
Resilient	096500	F7 Towel dispenser	102813
		F8 Wardrobe (optional in storage room)	
<u>Ceiling:</u>		F9 Stereo cabinet (optional)	
Suspended, acoustical	095113		
		<u>Fire Suppression:</u>	
<u>Walls:</u>		Fire suppression system	211000
Paint	099100	<u>Plumbing:</u>	
Acoustical wall treatment		Sink, 10" deep	224000
(varies with geometry of room)	098000	<u>HVAC:</u>	
absorptive 25%, reflective 25%,		Supply/return air system	Div. 23
diffusive 50%		Independent temperature control	230923
		<u>Electrical:</u>	
<u>LOOSE FURNISHINGS:</u>		Fluorescent lighting:	265100
L1 Mobile sheet music cabinet		Illumination level: see table 8600-5	
L2 Music chairs and caddies		Multilevel switching	262726
L3 Reserved		6 duplex receptacles	262726
L4 Music stands		Double duplex receptacle adjacent to	
L5 Conducting podium		each data and video port	262726
L6 Mobile percussion instrument storage		Emergency lighting per code	265100
cabinet		Means of egress lighting per code	265100
L7 Teacher workstation		Telecommunications Grounding	270526/260526
Wastebasket		<u>Communications:</u>	
		T1 1 projector video port	271543
<u>Electronic Safety and Security:</u>		T2 1 voice port and phone	271513/273123
Life safety devices per code	283111	T3 1 data port	271513
		T4 Wireless access point cable above ceiling	271513
<u>Miscellaneous:</u>		Clock	275313
Pencil sharpener (optional)		Central sound system	275123
Doors are to have acoustic trim accessories or		High school music sound system	275126
sound doors.		T5 Ultra-short throw interactive projector	274119
The following items are to be funded by the school			
district:		T6 Wireless access point (WAP) as	
M1 Piano		determined by Design – refer to Note 4	272133
		T7 Classroom technology center video port	
E1 Duplex receptacle with dedicated			271543, 274116, 274119, 275127
circuit for wireless devices			

NOTES:

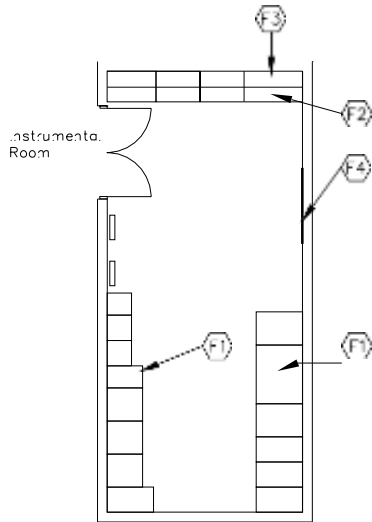
1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Sink could be in storage room.
3. For small population schools, provide additional bookcases or cabinets in lieu of H-MU-3 music library.
4. Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133

requirements.

**INSTRUMENT STORAGE
H-MU-2**

CHAPTER 6: HIGH SCHOOL

400 SF



PROGRAM ACTIVITIES:

- Storage of band instruments

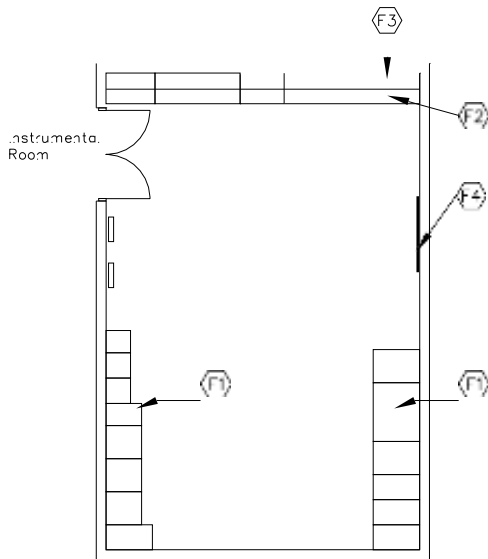
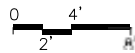
SPATIAL RELATIONSHIPS:

- 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>FINISHES¹:</u>	<u>Spec. Ref.#</u>	<u>FEATURES:</u>	<u>Spec. Ref.#</u>
Flooring:		<u>Fixed Items²:</u>	
<i>Linoleum, rubber, ET, or sheet vinyl</i>	096500 096516	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 tackboard (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 8600-5	
		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	

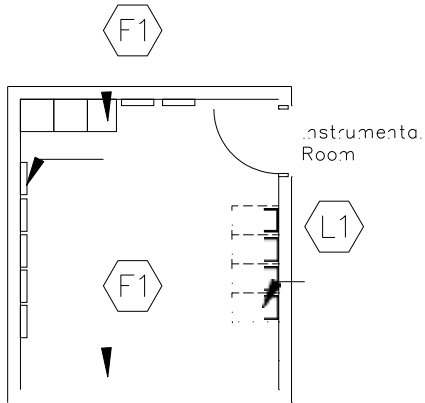
NOTES:

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

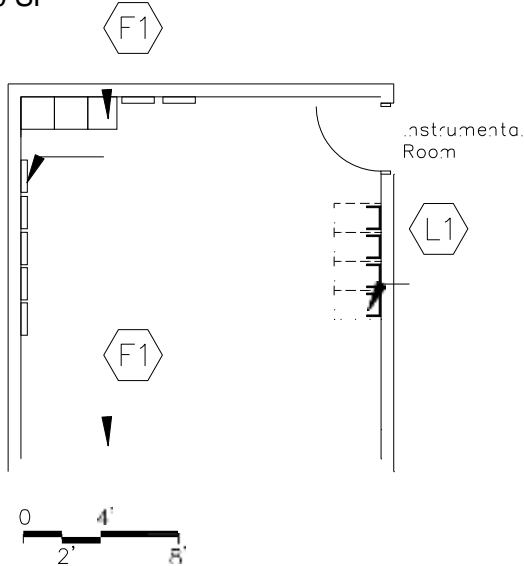
**ORCHESTRA STORAGE
H-MU-3**

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

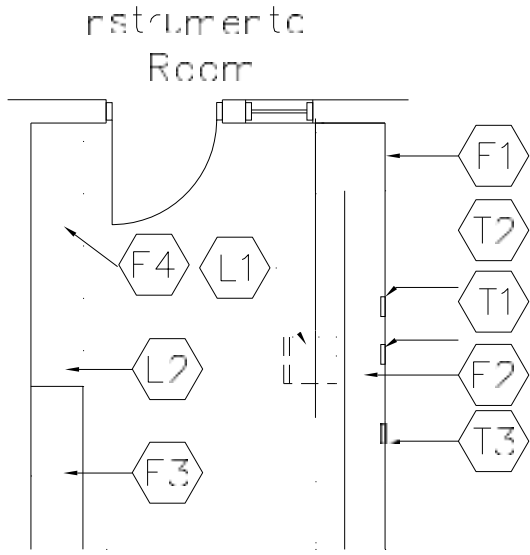
ENVIRONMENTAL CONSIDERATIONS:

- Wide doors

NOTES:

**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:

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

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

NOTES:

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

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

CHAPTER 6: HIGH SCHOOL

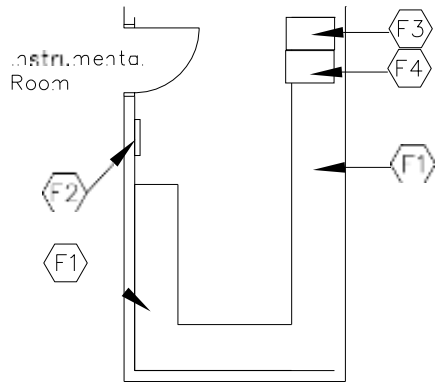
	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<u>Fixed Items:</u>	
Carpet, carpet tile, linoleum, ET, sheet vinyl	096816 096813 096516 096500	F1 Tall wardrobe	123550
		F2 Work surface with file drawers	123550 F3
		2'-4' tall storage cabinet (optional)	123550 F4
		Shelving or	123550
Base:		mobile music storage shelving	105626
Resilient base	096500	F5 4' of tack board (optional)	101100
Ceiling:		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
Walls:		<u>Plumbing:</u>	
Painted gypsum wallboard over metal studs	092116/099100	N/A	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Chair		Supply/return air system	Div. 23
L2 Sheet music storage		Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
Wastebasket			
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to data and video port	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/273123 T2
		1 data port near workstation	271513
		T3 1 projector video port	271543
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

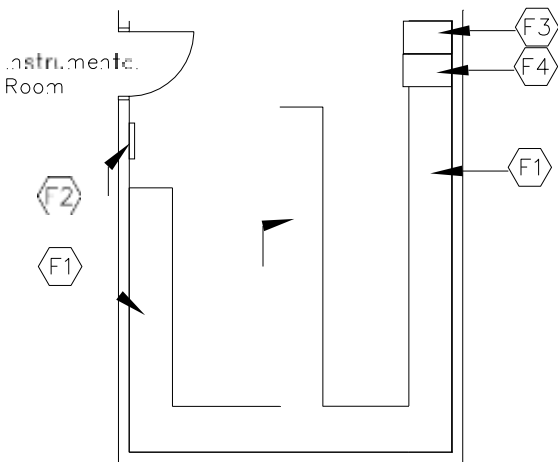
1. Finishes/Features: Refer to Chapter 9 for specification references.

CHAPTER 6: HIGH SCHOOL

150 SF



300 SF



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

PROGRAM ACTIVITIES:

- Storage of instrumental uniforms

SPATIAL RELATIONSHIPS:

- Adjacent to instrumental room

ENVIRONMENTAL CONSIDERATIONS:

N/A

NOTES:

**UNIFORM STORAGE
H-MU-5**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items²:</u>	
Linoleum , rubber, ET, or sheet vinyl	096500 096516	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>	
<u>LOOSE FURNISHINGS:</u>		N/A	
N/A		<u>HVAC:</u>	
		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Fluorescent lighting:	265100
		Illumination level: see table 8600-5	
		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	

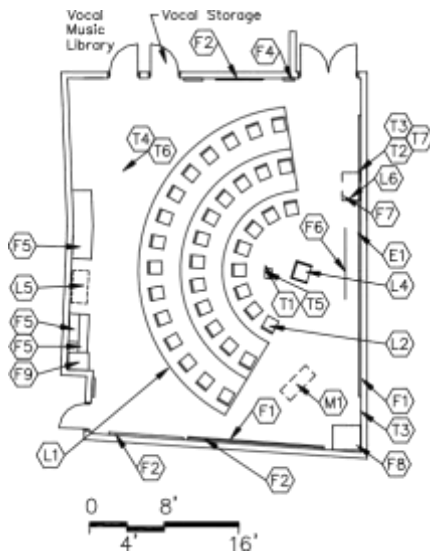
NOTES:

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

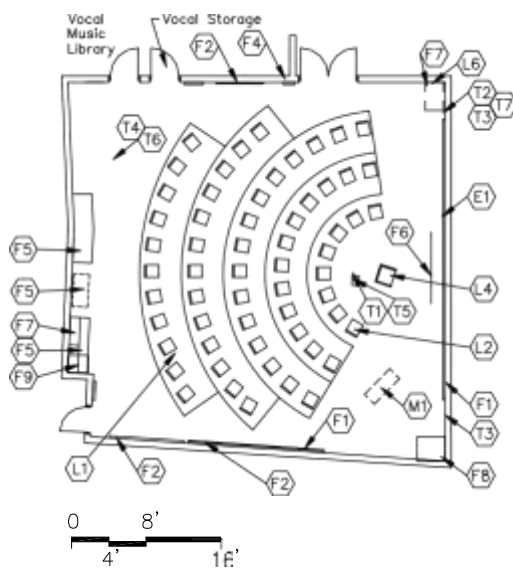
**VOCAL ROOM
H-MU-6**

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:

- 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 ¹ : <u>Fixed Items:</u>	Spec. Ref.#
FINISHES¹:			
Flooring:			
Carpet, carpet tile	096816	F1 5'-6' high mirror mounted 12" above floor	088300
Optional: ET, sheet vinyl linoleum, or rubber	096500 096516 096813	F2 16'-32' combination marker board, tack board, tackable wall surface	101100
		F3 Reserved	
		F4 Pencil sharpener support (optional)	062000
		F5 11'-18' combination base, wall and tall cabinets	123550
		F6 Projection screen (optional)	115213
		F7 Technology support casework	123550
		F8 Stereo cabinet (optional)	123550
		F9 Tall wardrobe (optional)	123550
Base:			
Resilient	096500		
Ceiling:			
Suspended acoustical	095113		
Absorptive 25%, reflective 25%, diffusive 50%		Fire Suppression: Fire suppression system	211000
		Plumbing: N/A	
Walls:		HVAC: Supply/return air system	Div. 23
Paint	099100	Independent temperature	230923
Acoustical wall treatment		Electrical: Fluorescent lighting:	265100
(varies with geometry of room)	098000	Multilevel switching	262726
LOOSE FURNISHINGS:		6 duplex receptacles	262726
L1 Portable risers		Double duplex receptacle adjacent to each data and video port	262726
L2 Music chairs and caddies		Emergency lighting per code	265100
L3 Reserved		Means of egress lighting per code	265100
L4 Conducting podium		Telecommunications Grounding	270526/260526
L5 Mobile sheet music cabinet		Communications:	
L6 Teacher computer workstation		T1 2 projector video ports	271543
Wastebasket		T2 1 voice port and phone	271513/273123
		T3 1 data port	271513
		T4 Wireless access point cable above ceiling	271513
		Clock	275313
		High school sound system	275126
		Central sound system	275123
		T5 Ultra-short throw interactive projector	274119
		T6 Wireless access point (WAP) as determined by Design – refer to Note 3	
			272133
		T7 Classroom technology center video port	271543, 274116, 274119, 27512
Electronic Safety and Security:			
Life safety devices per code	283111		
Miscellaneous:			
Pencil sharpener (optional)			
Gasketing on doors or sound doors			
The following item is to be funded by the owner:			
M1 Piano & electronic keyboard(s)			
E1 Duplex receptacle with dedicated circuit for wireless devices			

NOTES:

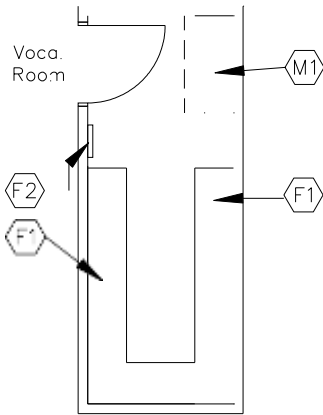
1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Technology components may be placed in a separate small cabinet, or integrated in the other casework in the room.

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

**VOCAL STORAGE
H-MU-7**

CHAPTER 6: HIGH SCHOOL

150 SF



PROGRAM ACTIVITIES:

- Secure storage of choir costumes, tuxedos, and risers

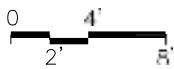
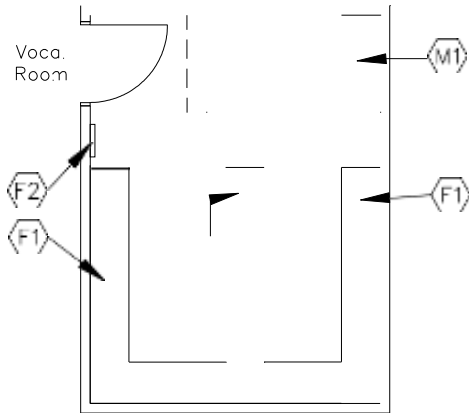
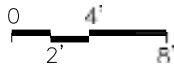
SPATIAL RELATIONSHIPS:

- 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

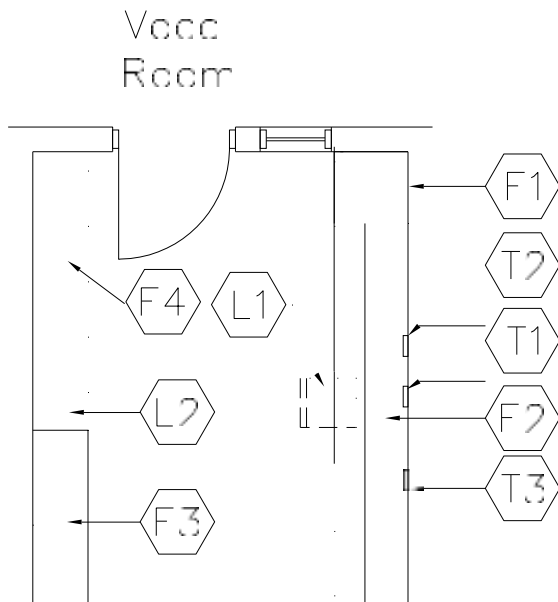
	Spec. Ref.#		Spec. Ref.#
<u>FINISHES</u> ¹ :		<u>FEATURES</u> :	
Flooring:		<u>Fixed Items</u> ² :	
<i>Linoleum, rubber, ET, or sheet vinyl</i>	096500 096516	F1 20'-40' of high robe storage cabinets	123550
		F2 20" x 60" mirror (optional)	102813
Base:		<u>Fire Suppression</u> :	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<u>Plumbing</u> :	
Suspended, acoustical	095113	N/A	
Walls:		<u>HVAC</u> :	
Painted concrete masonry units	042000/099100	To be determined by Design Professional	
		Supplemental heating as required	Div. 23
<u>LOOSE FURNISHINGS</u> :		<u>Electrical</u> :	
N/A		Fluorescent lighting:	265100
		Illumination level: See Table 8600-5	
		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.

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

CHAPTER 6: HIGH SCHOOL



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

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

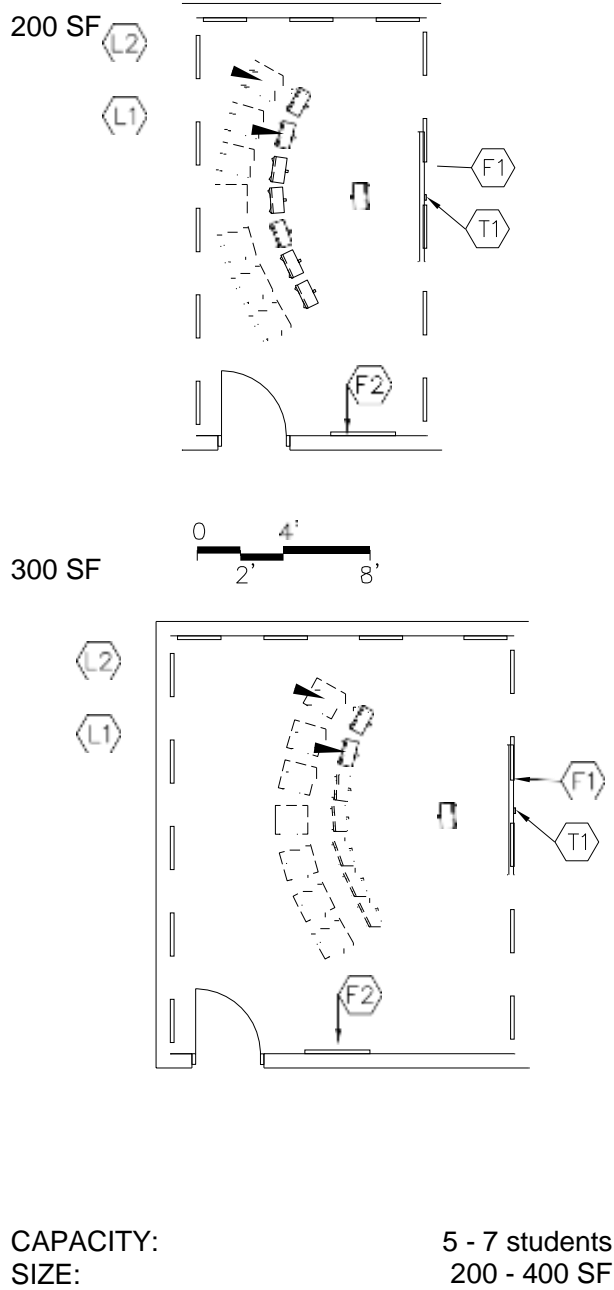
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet, carpet tile	096816	F1 Tall wardrobe	123550
Option: Linoleum, rubber, ET or sheet vinyl	096813 096516 096500	F2 Work surface with file drawers	123550 F3
		2'-4' tall storage cabinet	123550
		F4 Shelving or mobile storage shelving	123550 105626
<u>Base:</u>		F5 4' of tack board (optional)	101100
Resilient base	096500		
<u>Ceiling:</u>		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
<u>Walls:</u>		<u>Plumbing:</u>	
Painted gypsum wallboard over metal studs	092116/099100	N/A	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Chair		Supply/return air system	Div. 23
L2 Sheet music storage		Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
Wastebasket			
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to data and video port	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/273123
		1 data port near workstation	271513
		T3 1 projector video port	271543
		Central sound system	275123
		<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:

- 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.

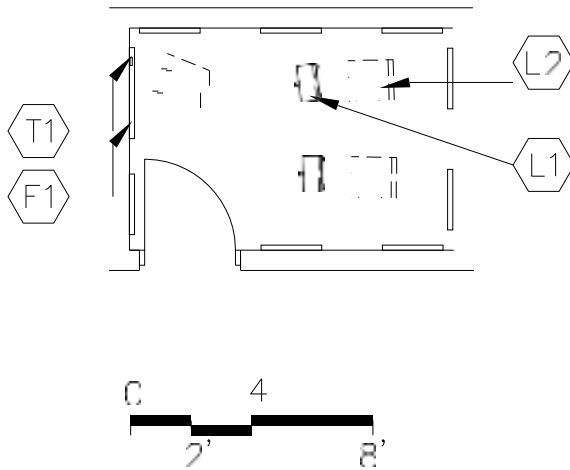
**ENSEMBLE ROOM
H-MU-9**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet, carpet tile	096816	F1 4'-6' of marker board (optional)	101100
Option: Linoleum, rubber, ET, or sheet vinyl	096813 096516 096500	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 absorptive 25%, reflective 25%, diffusive 50%	095113	N/A	
<u>Walls:</u>		<u>HVAC:</u>	
Painted concrete masonry units	042000/099100	Supply/return air system	Div. 23
Acoustical wall treatment (varies with geometry of room)	098000	Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
L1 Music stands		Fluorescent lighting:	265100
L2 Music chairs		Illumination level: See Table 8600-5	
		Single level switching	262726
		3 duplex receptacles	262726
		<u>Communications:</u>	
		Clock	275313
		Central sound system	275123
		T1 1 data port	271513
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Provide 4' door	
		Gasketing on doors or sound doors	

NOTES:

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

**PROGRAM ACTIVITIES:**

- Individual and small group practice
- Private lessons

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

- 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.

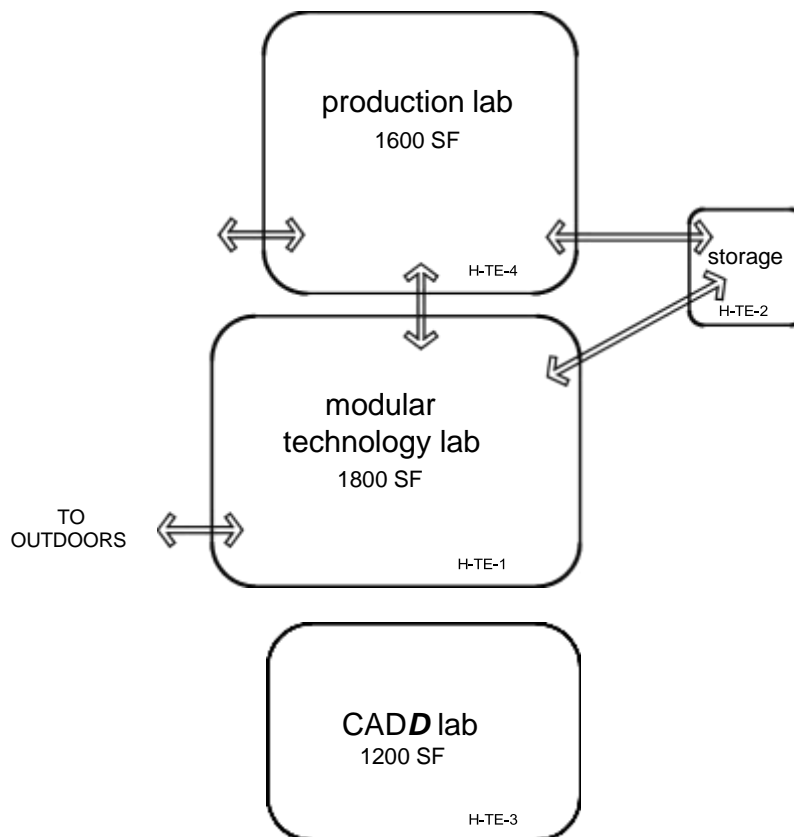
**PRACTICE ROOM
H-MU-10**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet, carpet tile	096816	F1 3' wide x 5' high mirror mounted	
Option: Linoleum, rubber, ET or sheet vinyl	096813 096516 096500	12" above finish floor (optional)	088300
<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	
Absorptive 25%, reflective 25%, diffusive 50%		<u>HVAC:</u>	
<u>Walls:</u>		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 8600-5	
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:

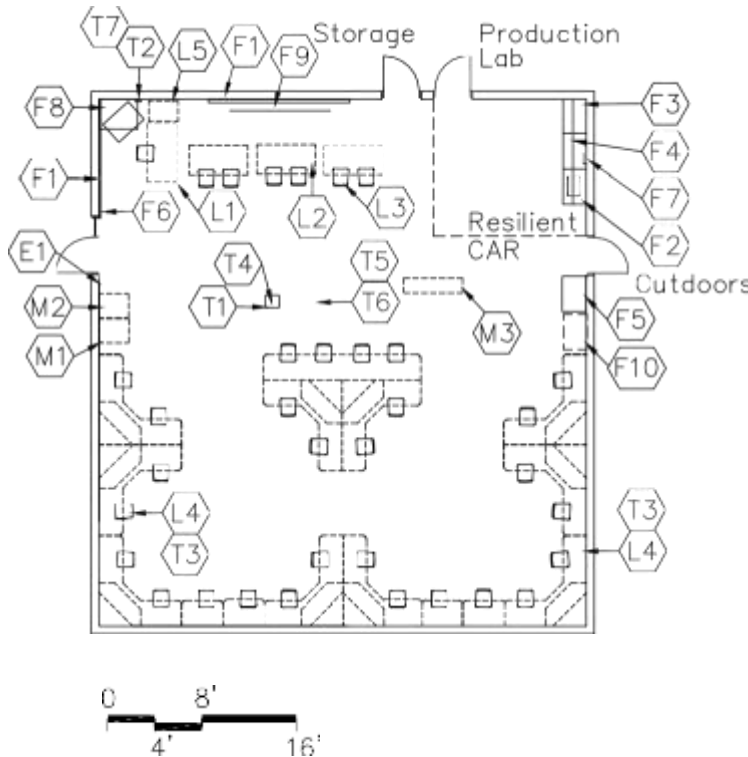
H-TE-1	Modular Technology Lab
H-TE-1a	Ag-Ed Lab
H-TE-2	Storage
H-TE-3	CADD Lab
H-TE-4	Production Lab

TECHNOLOGY EDUCATION SPACES
H-T E

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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:

- Environmental sound control - wall only minimum STC 45
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 ¹ : <u>Fixed Items:</u>	Spec. Ref.#
<u>FINISHES¹:</u>			
Flooring:			
Linoleum, rubber, ET, or sheet	096500	F1 12'-26' combination marker board tack board, tackable wall surface	101100
vinyl 4' width in front of cabinets	096516	F2 3' sink base cabinet	123550
Carpet, carpet tile	096816 096813	F3 About 9' of wall cabinets	123550
		F4 About 6' of base cabinet with heavy duty counter top	123550
Base:			
Resilient base	096500	F5 Tall cabinet (optional)	123550
		F6 Pencil sharpener support (optional)	062000
Ceiling:			
Suspended, acoustical	095113	F7 Towel dispenser	102813
		F8 Tall wardrobe	123550
		F9 Projection screen (optional)	115213
		F10 Technology support casework	123550
Walls:			
Painted concrete masonry units	042000/099100	Fire Suppression: Fire suppression system	211000
LOOSE FURNISHINGS:			
L1 Teacher desk/computer support and chair		Plumbing: Sink, 12" deep	224000
L2 Tables with heavy duty top		Plumbing connections 224000/221116/221119	224000/221116/221119
L3 Student stools/chairs		HVAC: Supply/return air system	Div. 23
L4 Computer technology workstation		Independent temperature controls	230923
L5 File cabinet		Electrical: Fluorescent lighting with computer aided lenses	265100
Wastebasket		Illumination level: See Table 8600-5	
		Multilevel switching	262726
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to data and video port	262726
Electronic Safety and Security:		Emergency lighting per code	265100
Life safety devices per code	283111	Means of egress lighting per code	265100
		Receptacle for printer	262726
Miscellaneous:			
Pencil sharpener (optional)		Communications: T1 1 projector video port	271543
The following items are to be funded by the school district:		T2 1 voice port and phone	271513/273123
M1 Classroom Area Network file server		T3 Classroom area network (25 data ports minimum)	271513
M2 Printer		Clock	275313
M3 Plotter		Central sound system	275123
		Sound reinforcement system	275127
E1 Duplex receptacle with dedicated circuit for wireless devices		T4 Ultra-short throw interactive projector	274119
		T5 Wireless access point cable above ceiling	271513
		T6 Wireless access point (WAP) as determined by Design – refer to Note 3	272133
		T7 Classroom technology center video port	271543, 274116, 274119, 275127

NOTES:

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

requirements.

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

PROGRAM ACTIVITIES:

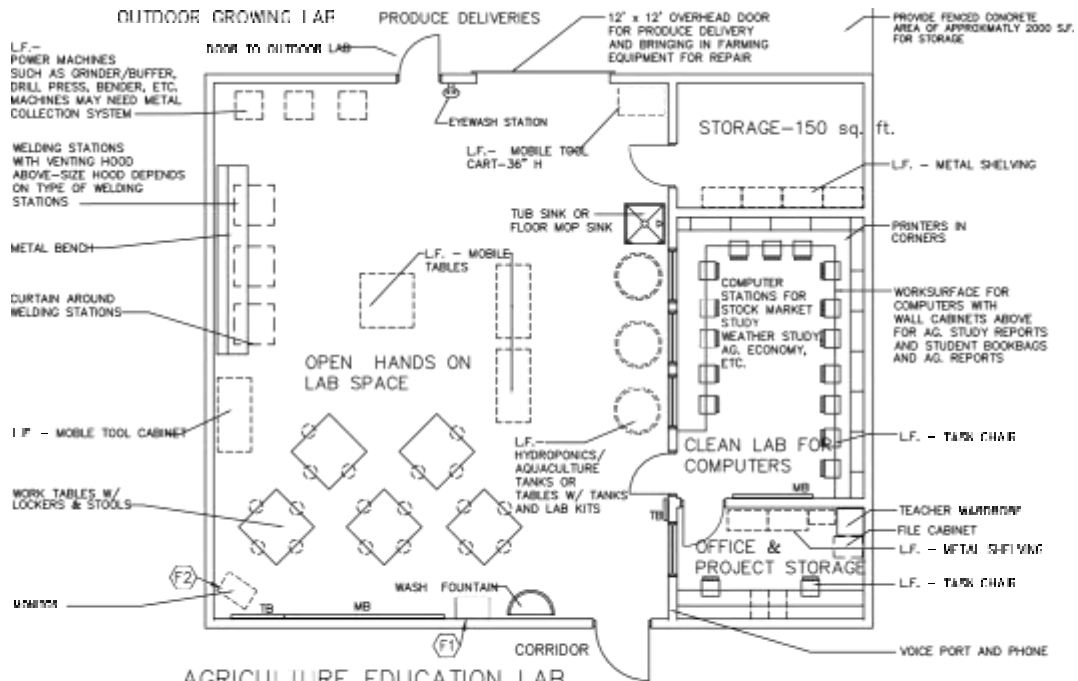
- Individual instruction in agriculture programs such as plant and animal science, soil management, natural resources and mechanical systems.
- Individual and group project work
- Equipment repair
- Small group meetings
- Lab activities related to curriculum

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control- wall **only** minimum STC **45**
 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

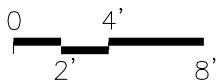
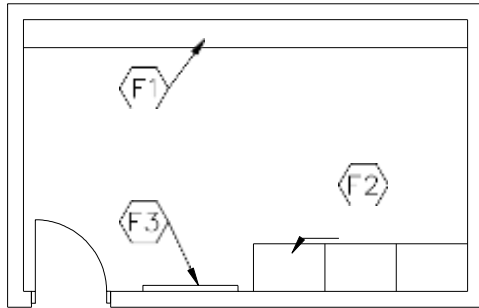
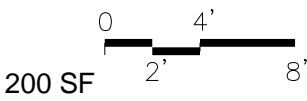
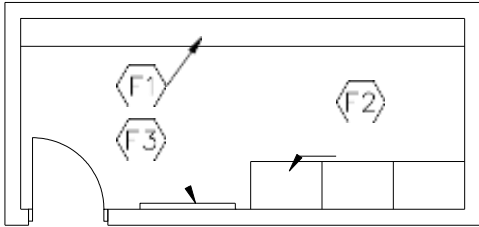
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Sealed concrete,	033000	16'-20' combination marker board,	101100
linoleum, rubber, ET,	096500	tack board, and tackable wall surface	
polished concrete finishing, or	033510	-pencil sharpener support (optional)	002000
colored concrete finishing	033519	14' Wall and base cabinets	123550
Sheet vinyl in office/storage	096516	Workbenches with locker bases	
		40' Work surface with heavy duty	123550
		countertop 36" high, with knee space	123550
<u>Base:</u>		2 towel dispensers	
Resilient base	096500	F1 Tall storage cabinet	123550
		F2 Technology support casework	123550
<u>Ceiling:</u>		<u>Fire Suppression:</u>	211000
Painted exposed structure	099100	<u>Plumbing:</u>	
		Fire suppression system	
		Wash fountain	224000
<u>Walls:</u>		Plumbing connections	224000/221116/221119
Painted concrete masonry units	042000/099100	Tub sink or floor mop sink	224000
		Emergency eyewash station connection	224000
		Sanitary drainage products	221316
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
Tables with heavy duty tops		Supply/return air system	Div. 23
Waste receptacle		Independent temperature controls	230923
Task chairs		Local air conditioning station	
Metal shelving		venting hood	233515
Teacher wardrobe		<u>Electrical:</u>	
File cabinet		High intensity discharge lighting	265100
Mobile tool cabinet		Illumination level: See Table 8600-5	
		16 duplex receptacles (42" height)	262726
		Double duplex receptacle adjacent to	
		data and video port	262726
		Emergency lighting per code	265100
		Means of egress lighting per code	265100
		Electrical power for shop equipment	262726
<u>Electronic Safety and Security:</u>		<u>Communications:</u>	
Life safety devices per code	283111	1 projector video port and video display device	271543/274119
		1 voice port and phone	271513/273123
<u>Miscellaneous:</u>		Wireless access point cable above ceiling	
Plan for shop equipment as necessary			
			271513
Overhead door		Clock	275313
Pencil sharpener (optional)		Central sound system	275123
		Sound reinforcement system	275127
Duplex receptacle with dedicated		Wireless access point (WAP) as	
circuit for wireless devices		determined by Design – refer to Note 2	
			272133
		Classroom technology center video port	
		271543, 274116, 274119, 275127	

NOTES:

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

CHAPTER 6: HIGH SCHOOL

150 SF



CAPACITY: N/A
 SIZE: 150 – 250 SF

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:
 N/A

NOTES:

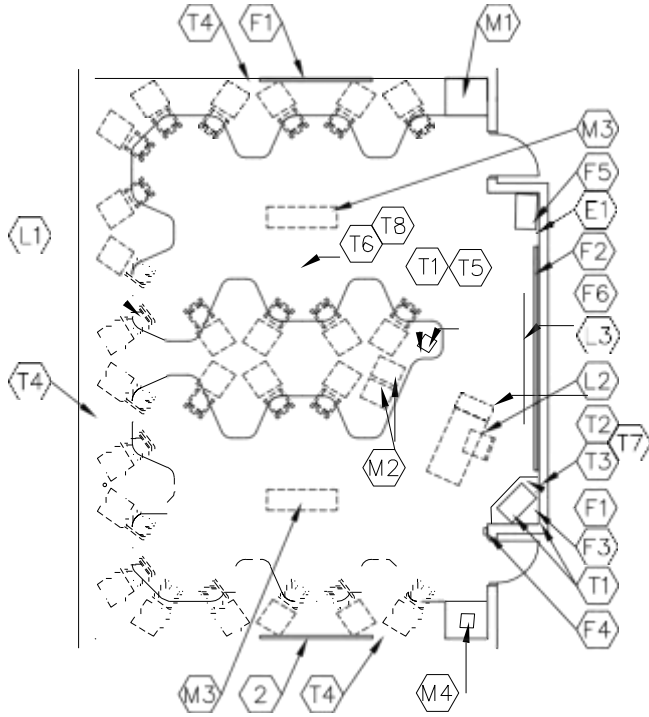
**STORAGE
H-TE-2**

CHAPTER 6: HIGH SCHOOL

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<u>Fixed Items:</u>	
Sealed concrete	033000	F1 10'-18' of open shelving depth may vary (fixed or loose)	123550
Base:		Option: mobile storage shelving	105626
Resilient base	096500	F2 4'-8' of tall storage cabinets	123550
		F3 4' of pegboard (optional)	102813
Ceiling:		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
Walls:		<u>Plumbing:</u>	
Painted gypsum wallboard over metal studs	092116/099100	N/A	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
N/A		To be determined by Design Professional	
		<u>Electrical:</u>	
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Near modular technology lab

ENVIRONMENTAL CONSIDERATIONS:

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

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

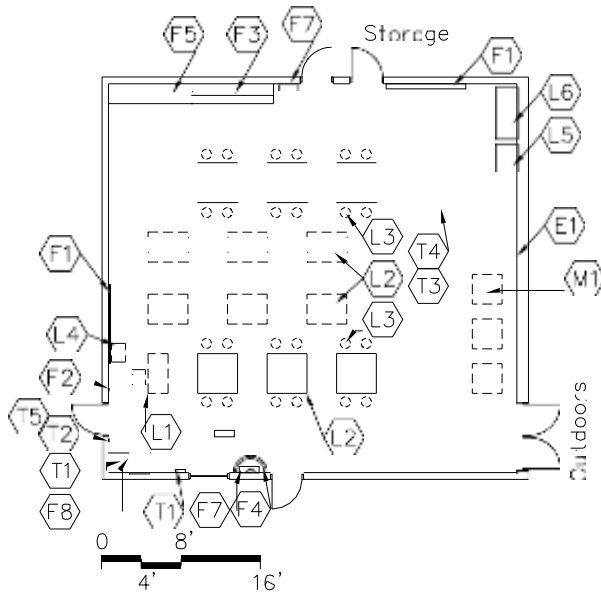
<u>FINISHES</u> ¹ :	Spec. Ref.#	<u>FEATURES</u> ¹ :	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet, carpet tile, ET, linoleum, or sheet vinyl	096816 096500 096516 096813	F1 Tall wardrobe with file drawers	123550
		F2 16-32' combination marker board, tack board, tackable wall surface	101100
		F3 Technology support casework	123550
<u>Base:</u>		F4 Pencil sharpener support (optional)	062000
Resilient base	096500	F5 4'-8' base and wall cabinets for printers and storage of paper, cartridges, etc.	123550
<u>Ceiling:</u>		F6 Projection screen (optional)	115213
Suspended, acoustical	095113	<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>Walls:</u>		<u>Plumbing:</u> N/A	
Painted concrete masonry units	042000/099100	<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Independent temperature control	230923
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
L1 Computer workstation furniture		Fluorescent lighting with computer aided lenses	265100
L2 Teacher desk and chair		Illumination level: See Table 8600-5	
L3 File cabinet		Multilevel switching	262726
Wastebasket		6 duplex receptacles	262726
		Double duplex receptacles adjacent to each data and video port	262726
L1 could be fixed casework.		Emergency lighting per code	265100
		Means of egress lighting per code	265100
<u>Electronic Safety and Security:</u>		Receptacle for printer/plotter	262726
Life safety devices per code	283111	<u>Communications:</u>	
<u>Miscellaneous:</u>		T1 2 projector video ports	271543
Interior windows to production lab (optional)		T2 1 voice port and phone	271513/273123
Pencil sharpener (optional)		T3 1 data port near teacher workstation	271513
E1 Duplex receptacle with dedicated circuit for wireless devices		T4 Classroom area network (25 data ports minimum)	271513
The following items are to be funded by the school district:		Clock	275313
M1 Classroom area network file server		Central sound system	275123
M2 Printers		T5 Ultra-short throw interactive projector	274119
M3 Plotters		T6 Wireless access point (WAP) as determined by Design – refer to Note 3	272133
M4 Scanner		T7 Classroom technology center video port 271543, 274116, 274119, 275127	
		T8 Wireless access point cable above ceiling	271513

NOTES:

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

**PRODUCTION LAB
H-TE-4**

CHAPTER 6: HIGH SCHOOL



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Grouped with other noise producing type activities
- Access to driveway and parking
- Direct access to outdoors
- Adjacent to modular technology lab
- Adjacent to storage room

ENVIRONMENTAL CONSIDERATIONS:

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

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

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**

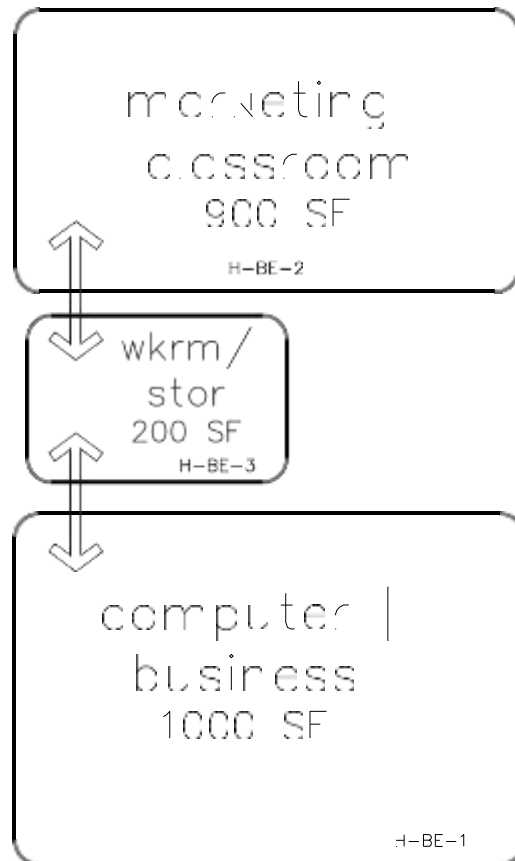
CHAPTER 6: HIGH SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Sealed concrete,	033000	F1 14'-24' combination marker board, tack	
polished concrete finishing, or	033510	board, tackable wall surface	101100
colored concrete finishing	033519	F2 Pencil sharpener support (optional)	062000
		F3 12'of wall and 12'of base cabinets	123550
		F4 Wash fountains	
<u>Base:</u>		F5 6'-12' of work surface with heavy duty	
Resilient base	096500	countertop 36" high, with knee space	123550
		F6 Reserved	
<u>Ceiling:</u>		F7 2 towel dispensers	102813
Painted exposed structure	099100	F8 Technology support casework	123550
		<u>Fire</u>	
		<u>Suppression:</u>	
<u>Walls:</u>		Fire suppression system	211000
Painted concrete masonry units	042000/099100	<u>Plumbing:</u>	
		Wash fountain	224000
		Plumbing connections	224000/221116/221119
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Teacher desk/computer support and chair		Supply/return air system	Div. 23
L2 Tables with heavy duty tops & lockers below		Independent temperature	
L3 Stools		controls	230923
L4 File cabinet		Localized dust collection as	
L5 Mobile tool cabinet		necessary	Div. 23
L6 Material storage racks		<u>Electrical:</u>	
Waste receptacle		High intensity discharge lighting	265100
		Illumination level: See Table 8600-5	
		8 duplex receptacles	262726
		Double duplex receptacle adjacent to	
		data and video port	262726
<u>Electronic Safety and Security:</u>		Emergency lighting per code	265100
Life safety devices per code	283111	Means of egress lighting per code	265100
		Electrical power for shop equipment	262726
<u>Miscellaneous:</u>		<u>Communications:</u>	
Pencil sharpener (optional)		T1 1 projector video port and video display	
M1 Shop equipment with localized dust		Device	271543/274119
collection as necessary.		T2 1 voice port and phone	271513/273123
		T3 Wireless access point cable above ceiling	271513
		Clock	275313
		Central sound system	275123
		Sound reinforcement system	275127
E1 Duplex receptacle with dedicated		T4 Wireless access point (WAP) as	
 circuit for wireless devices		 determined by Design – refer to Note 3	272133
		T5 Classroom technology center video port	
		 271543, 274116, 274119, 275127	

NOTES:

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

requirements.

**NOTE:**

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

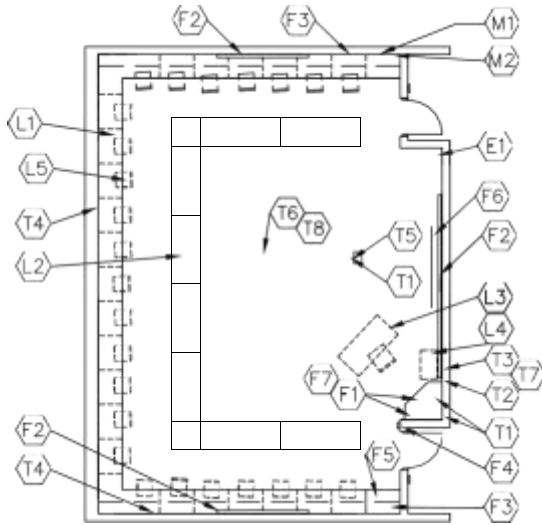
Following are the Business Education space plates:

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

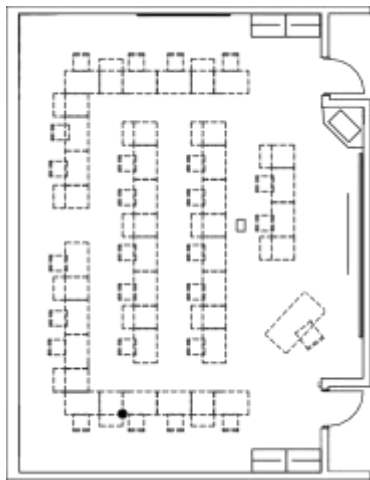
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**COMPUTER AND BUSINESS CLASSROOM
H-BE-1**

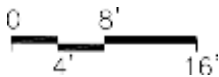
CHAPTER 6: HIGH SCHOOL



PERIMETER WORKSTATIONS LAYOUT



FREE STANDING WORKSTATIONS LAYOUT



CAPACITY:
SIZE:

25 students
1000 SF

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Close proximity to marketing classroom
- Proximity to large group restrooms
- Adjacent to workroom/storage

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

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

CHAPTER 6: HIGH SCHOOL

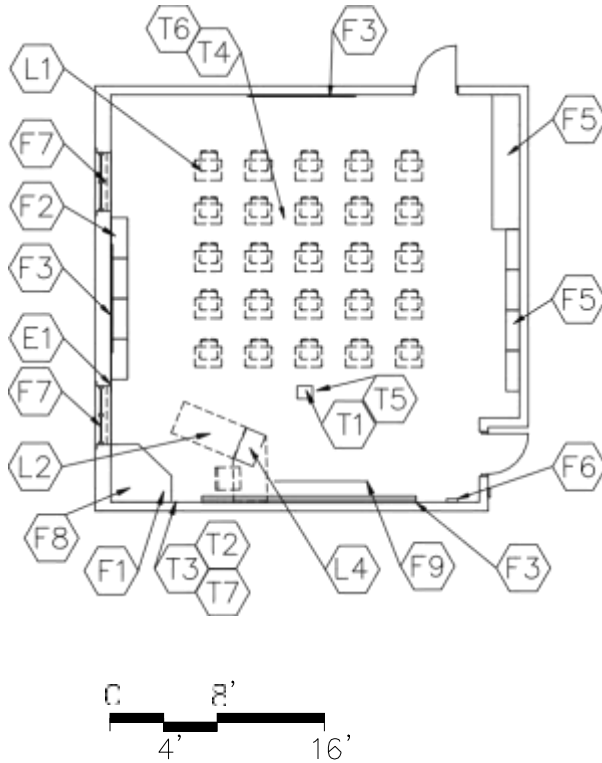
	Spec. Ref.#	FEATURES ¹ :	Spec. Ref.#
FINISHES¹:		Fixed Items:	
Flooring:		F1 Tall wardrobe with file drawers	123550
Carpet, carpet tile,	096816	F2 16'-32' combination marker board,	101100
Optional: ET, sheet vinyl,	096500	tack board, tackable wall surface	
linoleum, or rubber	096813	F3 Wall cabinets for student book	
	096516	storage and program manuals	123550
Base:		Pencil sharpener support (optional)	062000
Resilient base	096500	Base cabinets	123550
Ceiling:		F6 Projection screen (optional)	115213
Suspended, acoustical	095113	F7 Technology support casework	123550
Walls:		Fire Suppression:	
Painted concrete masonry units		Fire suppression system	211000
	042000/099100	Plumbing: N/A	
		HVAC:	
		Supply/return air system	Div. 23
		Independent temperature control	230923
LOOSE FURNISHINGS:		Electrical:	
L1 Computer workstation furniture		Fluorescent lighting with	
L2 Work tables		computer aided lenses	265100
L3 Teacher desk/computer support and chair		Illumination level: See Table 8600-5	
L4 File cabinet		Multilevel switching	262726
L5 Appropriate ergonomic chairs		4 duplex receptacles	262726
Wastebasket		Double duplex receptacle adjacent to	
		each data and video port	262726
L1 could be fixed casework.		Emergency lighting per code	265100
		Means of egress lighting per code	265100
		Communications:	
Electronic Safety and Security:		T1 2 projector/video ports	271543
Life safety devices per code	283111	T2 1 voice port and phone	271513/273123
		T3 1 data port near teacher workstation	271513
		T4 Classroom area network	
		(25 data ports minimum)	271513
Miscellaneous:		Clock	275313
Pencil sharpener (optional)		Central sound system	275123
The following items are to be funded by the		Sound reinforcement system	275127
school district:		T5 Ultra-short throw interactive projector	
M1 Classroom Area Network file server			274119
(optional)		T6 Wireless access point (WAP) as	
M2 Printer		determined by Design – refer to Note 2	272133
		T7 Classroom technology center video port	
E1 Duplex receptacle with dedicated		271543, 274116, 274119, 275127	
circuit for wireless devices		T8 Wireless access point cable above ceiling	
			271513

NOTES:

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

**MARKETING CLASSROOM
H-BE-2**

CHAPTER 6: HIGH SCHOOL



CAPACITY: 25 students
 SIZE: 900 SF

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

**MARKETING CLASSROOM
H-BE-2**

CHAPTER 6: HIGH SCHOOL

Spec.	1	Spec.
<u>Ref.#</u>	<u>FEATURES :</u>	<u>Ref.#</u>
FINISHES¹:	Fixed Items:	
Flooring:	F1 Tall wardrobe with file drawers	123550
Carpet, carpet tile	F2 6'-10' of bookcases	123550
Optional: ET, sheet vinyl,	F3 18'-32' combination marker board,	101100
linoleum, or rubber	tack board, tackable wall surface	
	F4 Reserved	
	F5 12'-20' combination base and wall	123550
	cabinets	
Base:	F6 Pencil sharpener support (optional)	062000
Resilient base	F7 Windows with integral blinds	085113
	F8 Technology support casework	123550
Ceiling:	F9 Projection screen (optional)	115213
Suspended, acoustical		
	Fire Suppression:	
Walls:	Fire suppression system	211000
Paint	099100	
	Plumbing:	
LOOSE FURNISHINGS:	N/A	
L1 Student desks and chairs	HVAC:	
L2 Teacher desk/computer support and	Supply/return air system	Div. 23
chair	Independent temperature control	230923
L3 Reserved	Electrical:	
L4 Desk height file cabinet	Fluorescent lighting:	265100
Wastebasket	Illumination level: See Table 8600-5	
	Multilevel switching	262726
	4 duplex receptacles	262726
Electronic Safety and Security:	Double duplex receptacle adjacent to	
Life safety devices per code	each data and video port	262726
	283111	
	Communications:	
Miscellaneous:	T1 1 projector video port	271543
Pencil sharpener (optional)	T2 1 voice port and phone	271513/273123
	T3 1 data port near teacher workstation	271513
E1 Duplex receptacle with dedicated	T4	
circuit for wireless devices	Wireless access point cable above	
	Ceiling	271513
	Clock	275313
	Central sound system	275123
	Sound reinforcement system	275127
	T5 Ultra-short throw interactive projector	
		274119
	T6 Wireless access point (WAP) as	
	determined by Design – refer to Note 3	
		272133
	T7 Classroom technology center video port	
		271543, 274116, 274119, 275127

NOTES:

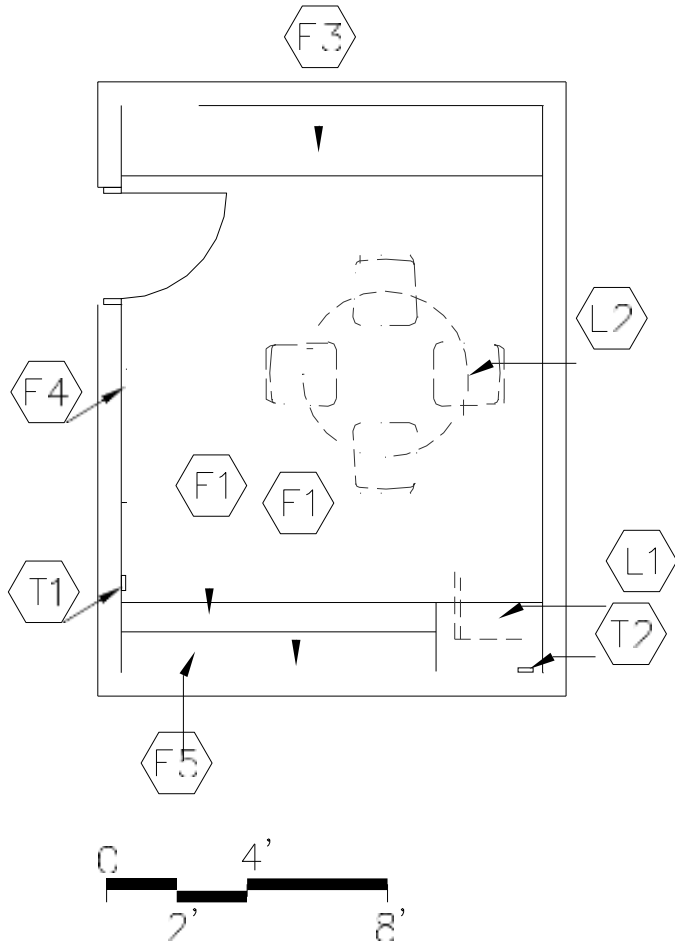
1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Technology components may be placed in a separate small cabinet, or integrated in the other casework in the room.

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

**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:

- 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

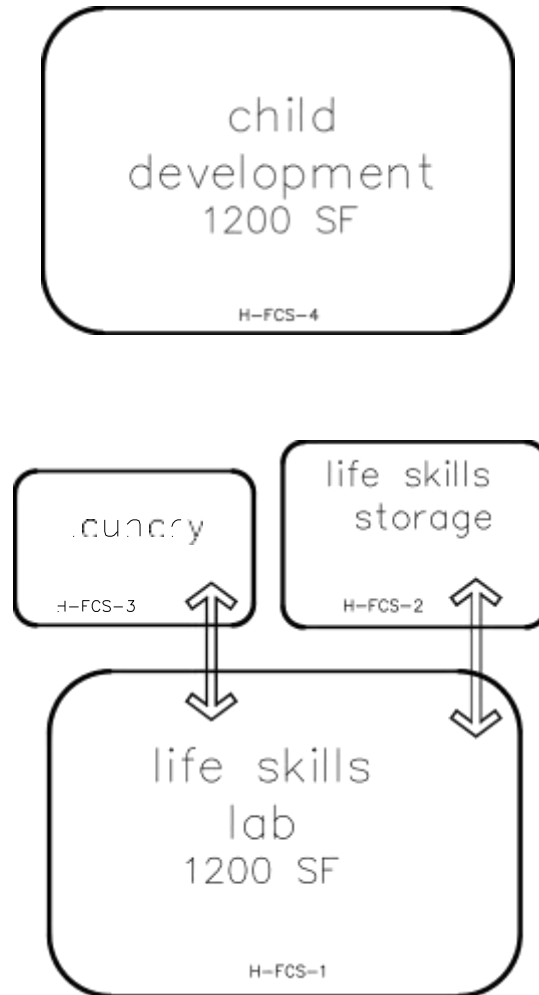
	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<u>Fixed Items²:</u>	
Carpet, carpet tile, ET, linoleum, Or sheet vinyl	096816 096500 096516 096813	F1 12'-18' combination base and wall cabinets	123550
Base:		F2 Reserved	
Resilient base	096500	F3 12'-24' of tall storage cabinets or bookshelves	123550
Ceiling:		F4 4' of tack board or marker board , tackable wall surface	101100
Suspended, acoustical	095113	F5 Work surface (optional)	123550
Walls:		<u>Fire Suppression:</u>	
Painted concrete masonry units	042000/099100	Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Computer workstation furniture		N/A	
L2 Tables and chairs		<u>HVAC:</u>	
Wastebasket		Supply/return air system	Div. 23
		Independent temperature control	230923
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		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/ 273123
		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



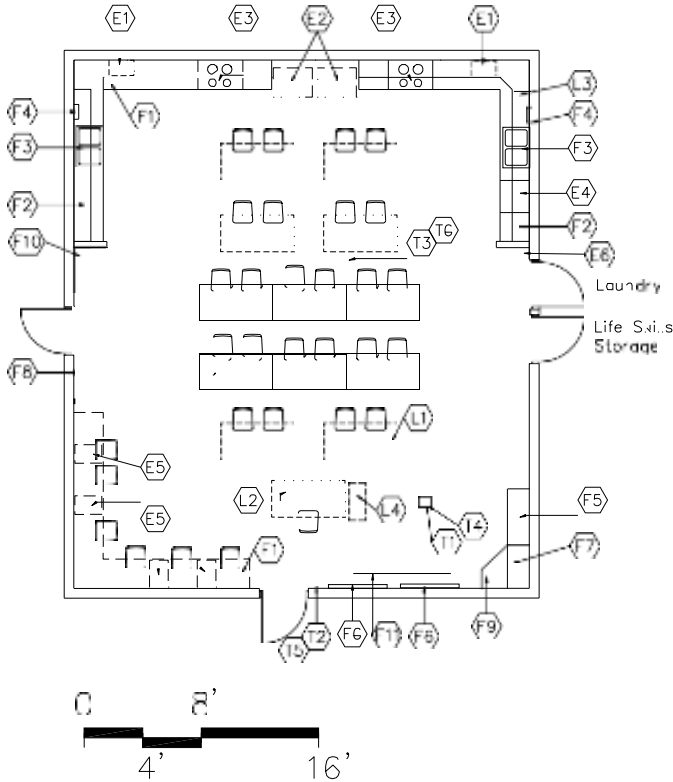
NOTE:

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:

- Environmental sound control - wall only minimum STC 45 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.#
FINISHES¹:		FEATURES¹:	
Flooring:		Fixed Items:	
Linoleum,	096500	F1 Base cabinets	123550
ET, 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 16'-32' combination marker board, tack board, tackable wall surface	101100
Ceiling:		F7 Technology support casework	123550
Suspended, acoustical	095113	F8 Pencil sharpener support (optional)	062000
		F9 Tall wardrobe with file drawers	123550
Walls:		F10 3'-9' of tall storage cabinets (could have trays)	123550
Paint		F11 Projection screen (optional)	115213
099100			
LOOSE FURNISHINGS:		Fire Suppression:	
L1 Tables and chairs		Fire suppression system	211000
L2 Teacher desk/computer support and chair		Plumbing:	
L3 Reserved		Double sinks	224000
L4 File cabinet		Plumbing connections	224000/221116/22119
Wastebaskets		Garbage disposals (optional)	
		HVAC:	
EQUIPMENT:		Supply/return air system	Div. 23
E1 Microwaves		Manually operated exhaust air system	Div. 23
E2 Refrigerators		Independent temperature controls	230923
E3 Range and oven		Electrical:	
E4 Dishwasher		Fluorescent lighting	265100
E5 Sewing machines		Illumination level: See Table 8600-5	
		Multilevel switching	262726
Electronic Safety and Security:		4 duplex receptacles	262726
Life safety devices per code 283111		Double duplex receptacle adjacent to each data and video port	262726
Miscellaneous:		Receptacles for refrigerators, microwaves, ranges, dishwashers, and sewing machines	262726
Pencil sharpener (optional)		Means of egress lighting per code	265100
		Emergency lighting per code	265100
E6 Duplex receptacle with dedicated circuit for wireless devices		Communications:	
		T1 1 projector video port	271543
		T2 1 voice port and phone	271513/273123
		T3 Wireless access point cable above ceiling	271513
Classroom technology:		Central sound system	275123
Classroom technology center video port	271543, 274116, 274119, 275127	Sound reinforcement system	275127
T6 Wireless access point (WAP) as determined by Design – refer to Note 3	272133	T4 Ultra-short throw interactive projector	274119

NOTES:

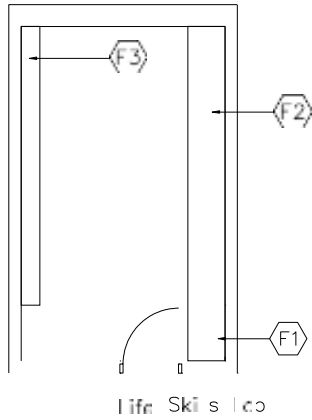
1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Technology components may be placed in a separate small cabinet, or integrated in the

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

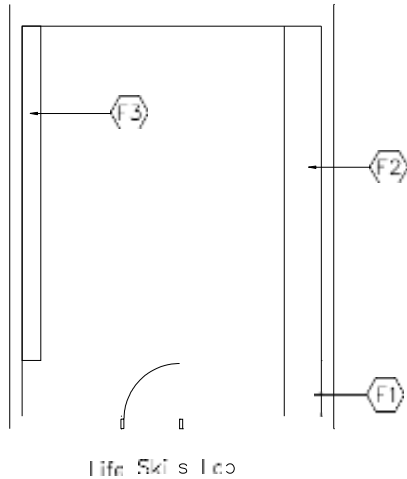
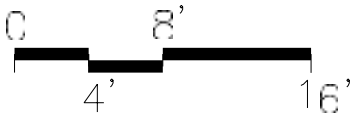
**LIFE SKILLS STORAGE
H-FCS-2**

CHAPTER 6: HIGH SCHOOL

200 SF



350 SF



CAPACITY: N/A
 SIZE: 200 - 400 SF
 ANCILLARY SPACES: H-FCS-1
 Life Skills Lab

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Adjacent to life skills lab

ENVIRONMENTAL CONSIDERATIONS:

- Resilient floor covering

NOTES:

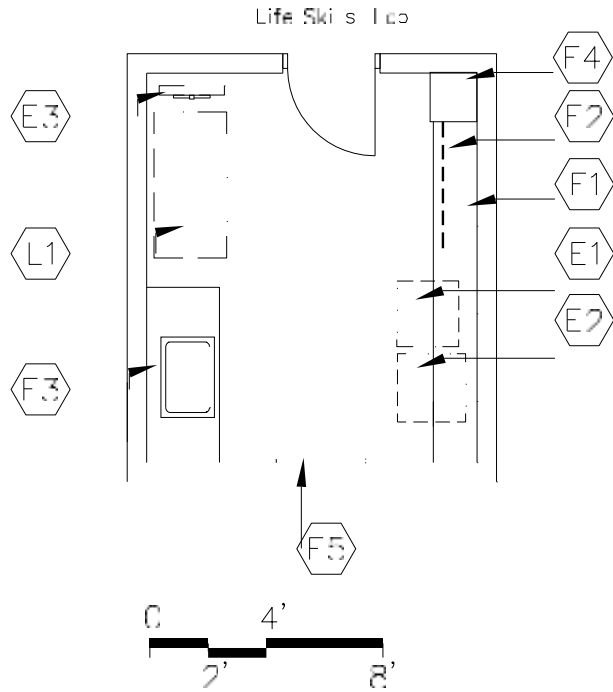
**LIFE SKILLS STORAGE
H-FCS-2**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items²:</u>	
Linoleum, rubber, ET, or sheet vinyl	096500 096516	F1 3' of tall wardrobe (optional)	123550
		F2 10'–18' of tall cabinets or wall & base cabinets	123550
Base:		F3 10'–18' of open cabinets	123550
Resilient base	096500	Option: mobile storage shelving	105626
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>	
Supply cart		To be determined by Design Professional	
		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Adjacent to life skills lab

ENVIRONMENTAL CONSIDERATIONS:

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

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

NOTES:

**LAUNDRY
H-FCS-3**

CHAPTER 6: HIGH SCHOOL

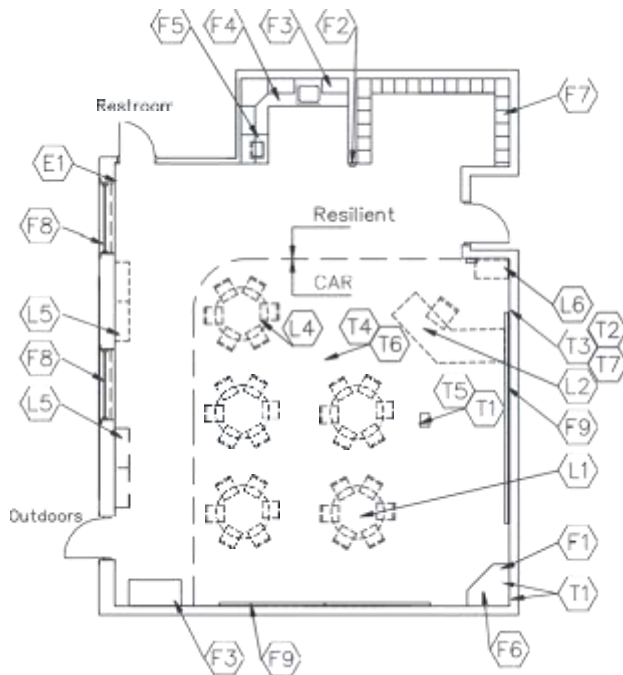
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items¹:</u>	
Linoleum,	096516	F1 14' of wall cabinets	123550
ET, or sheet vinyl	096500	F2 6' hanging bar/drying rack (optional)	123550 F3
		6' sinkbase cabinet	123550
Base:		F4 3' tall cabinet (optional)	123550
Resilient base	096500	F5 5' high mirror (optional)	102813
Ceiling:		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
Walls:		<u>Plumbing:</u>	
Painted concrete masonry units	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 8600-5	
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.

CHILD DEVELOPMENT H-FCS-4

CHAPTER 6: HIGH SCHOOL



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

PROGRAM ACTIVITIES:

- Training for early childhood careers
- Training for parenting
- Preschool and toddler care

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

**CHILD DEVELOPMENT
H-FCS-4**

CHAPTER 6: HIGH SCHOOL

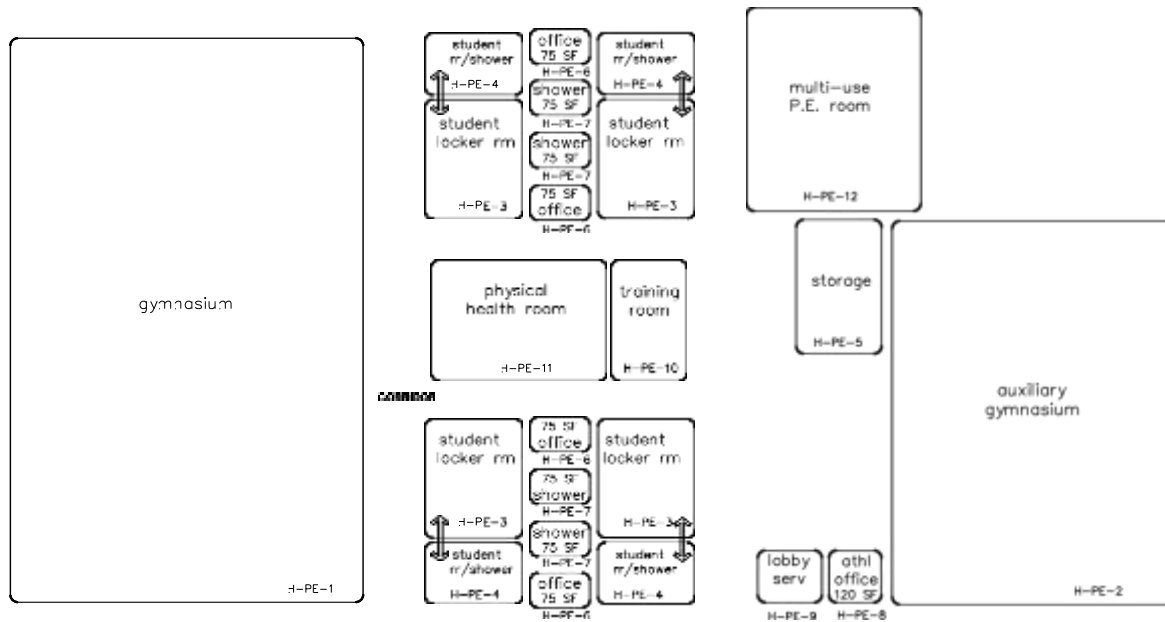
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Combination of carpet and carpet tile, linoleum, ET, sheet vinyl, or rubber	096816 096500 096516	F1 Tall wardrobe with file drawers Pencil sharpener support (optional) 16'-20' combination wall and tall	123550 F2 062000 F3 123550
<u>Base:</u>	096813	cabinets	
Resilient base	096500	F4 3' of sink base cabinet, 36" high F5 3' of sink base cabinet, (ADA compliant)	123550 123550
<u>Ceiling:</u>		F6 Technology support casework Open casework - coats	123550 F7 123550
Suspended, acoustical	095113	F8 Windows with integral blinds F9 16'-32' of marker board, tack board, or tackable wall surface	085113 101100
<u>Walls:</u>		<u>Fire Suppression:</u>	
Paint		Fire suppression system	211000
099100		<u>Plumbing:</u>	
<u>LOOSE FURNISHINGS:</u>		2 sinks (1 with drinking fountain) Plumbing connections	224000
L1 Student desks and chairs			
L2 Teacher desk/computer support and chair		<u>HVAC:</u>	224000/221116/221119
L3 Reserved		Supply/return air system Independent temperature control	Div. 23 230923
L4 Tables and chairs for preschool children		<u>Electrical:</u>	
L5 Low mobile storage units		Fluorescent lighting Illumination level: See Table 8600-5	265100 262726
L6 File cabinet		Multilevel switching 6 duplex receptacles Double duplex receptacle adjacent to each data and video port	262726 262726 262726
Wastebasket		Means of egress lighting per code Emergency lighting per code	265100 265100
<u>Electronic Safety and Security:</u>		<u>Communications:</u>	
Life safety devices per code	283111	T1 1 projector video port T2 1 voice port and phone T3 1 data port near teacher workstation T4 Wireless access point cable above ceiling Clock Central sound system Sound reinforcement system	271543 271513/273123 271513 T4 271513 275313 275123 275127
<u>Miscellaneous:</u>		T5 Ultra-short throw interactive projector T6 Wireless access point (WAP) as determined by Design – refer to Note 3	274119 272133
Pencil sharpener (optional)		T7 Classroom technology center video port	271543, 274116, 274119, 275127
E1 Duplex receptacle with dedicated circuit for wireless devices			

NOTES:

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

other casework in the room.

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



NOTES:

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

Following are the Physical Education space plates:

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

GYMNASIUM SIZE

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

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

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

**PHYSICAL EDUCATION SPACES
H-PE**

CHAPTER 6: HIGH SCHOOL

SEATING

Regarding seating/bleachers, in high schools, space for seating in the gym is provided for the entire student enrollment and staff. The approximate number of seats to be included is shown in the table below.

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

FINAL LAYOUT

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

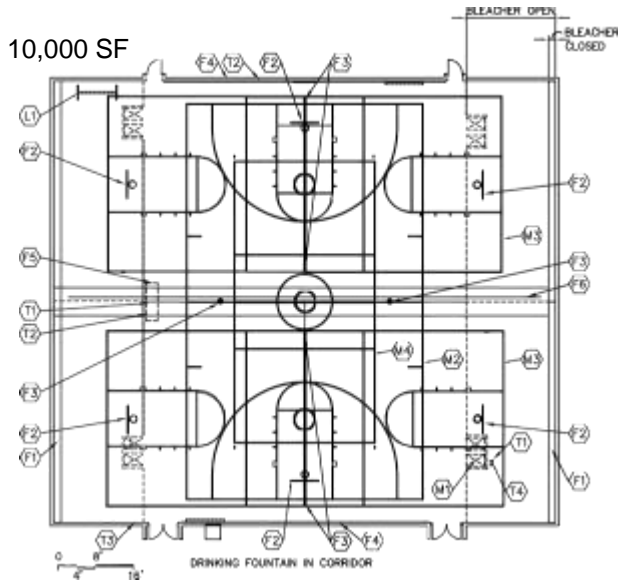
High School Gymnasium Design Guidelines					
STN ENRL	Staff	Total Occup	Gym SF	Court Size	Approx. # Seats
450	41	491	9,300	50 x 84	517
600	51	651	9,800	50 x 84	645
700	60	760	10,200	50 x 84	748
800	69	869	10,700	50 x 84	876
900	77	977	11,100	50 x 84	978
1,000	85	1,085	11,500	50 x 84	1,080
1,100	94	1,194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

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

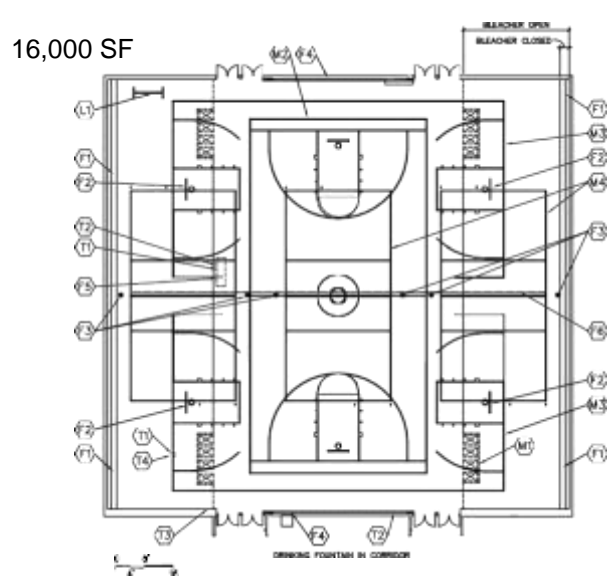
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**GYMNASIUM
H-PE-1**

CHAPTER 6: HIGH SCHOOL



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



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

<p>CAPACITY: 60 – 75 Students SIZE: 9,300 – 17,400 SF ANCILLARY SPACES: Physical Education Storage H-PE-5</p>	<p>PROGRAM ACTIVITIES:</p> <ul style="list-style-type: none"> Physical education classes and interscholastic athletic competition Student assemblies Community use <p>SPATIAL RELATIONSHIPS:</p> <ul style="list-style-type: none"> Near locker rooms Adjacent to outdoors Near student dining <p>ENVIRONMENTAL CONSIDERATIONS:</p> <ul style="list-style-type: none"> Environmental sound control - walls minimum STC 60 Acoustical requirements and other factors as determined by final configuration of the space Clear, fixed height of 23' from floor to nearest obstruction
--	--

NOTES:

- Loose furnishings shown represent one of many possible arrangements.

**GYMNASIUM
H-PE-1**

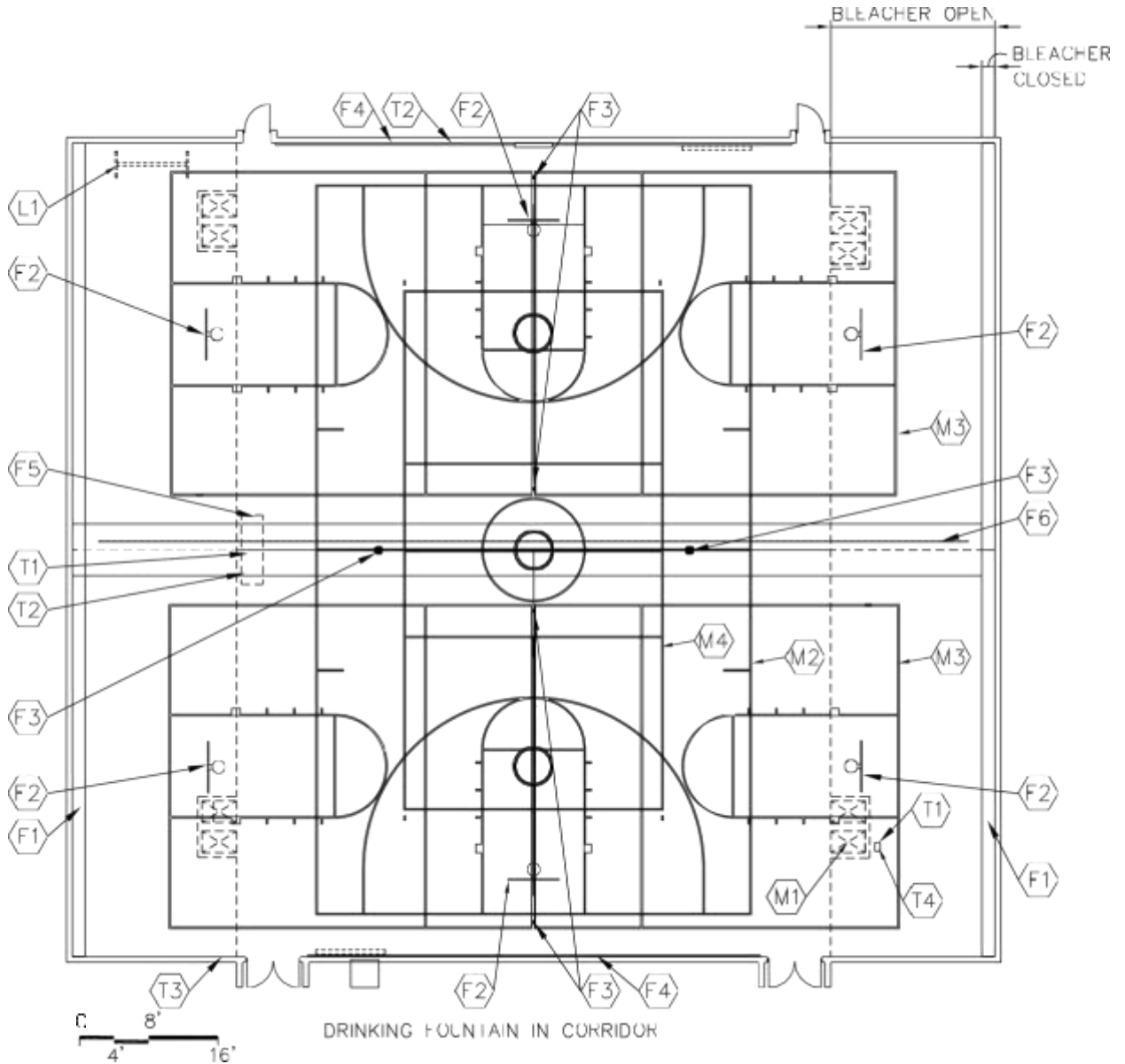
CHAPTER 6: HIGH SCHOOL

	Spec. Ref.#	FEATURES: <u>Fixed Items:</u>	Spec. Ref.#
<u>FINISHES</u> ¹ :			
Flooring:			
Wood	096466	F1 Telescoping stands	126600
		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
		F5 Scorer's table	126600
Ceiling:		F6 Divider gym curtain	116623
Painted exposed structure	099100	<u>Fire Suppression:</u>	
		Fire suppression system	211000
Walls:		<u>Plumbing:</u>	
Painted	099100	Drinking fountain	224000
Sound absorption concrete masonry units on 2 walls or	042000	directly outside the entrance	
abuse-resistant acoustical wall treatment	098000	<u>HVAC:</u>	
		Supply/return air system	Div. 23
<u>LOOSE FURNISHINGS:</u>		Independent temperature control	230923
L1 Portable markerboard		<u>Electrical:</u>	
		Fluorescent lighting	265100
		Illumination level: See Table 8600-6	
		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
		<u>Communications:</u>	
		T1 2 projector video ports, 1 monitor w/cart	271543/274119
		T2 2 data ports	271513
		T3 1 voice port	271513/273113
Miscellaneous:		Clocks with wire guards	275313
M1 Bleacher seating (ADA accessible) Court markings (optional)		Central sound system	275123
M2 84' x 50' basketball court		Gymnasium sound system	275124
M3 (2) cross-court basketball courts		T4 Overhead projector	274119
M4 30'x60' volleyball court		<u>Electronic Safety and Security:</u>	
M5 36' x 78' tennis courts		Life safety devices per code	283111
Provide wire guards on light fixtures and wall-mounted electrical devices			

NOTES:

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

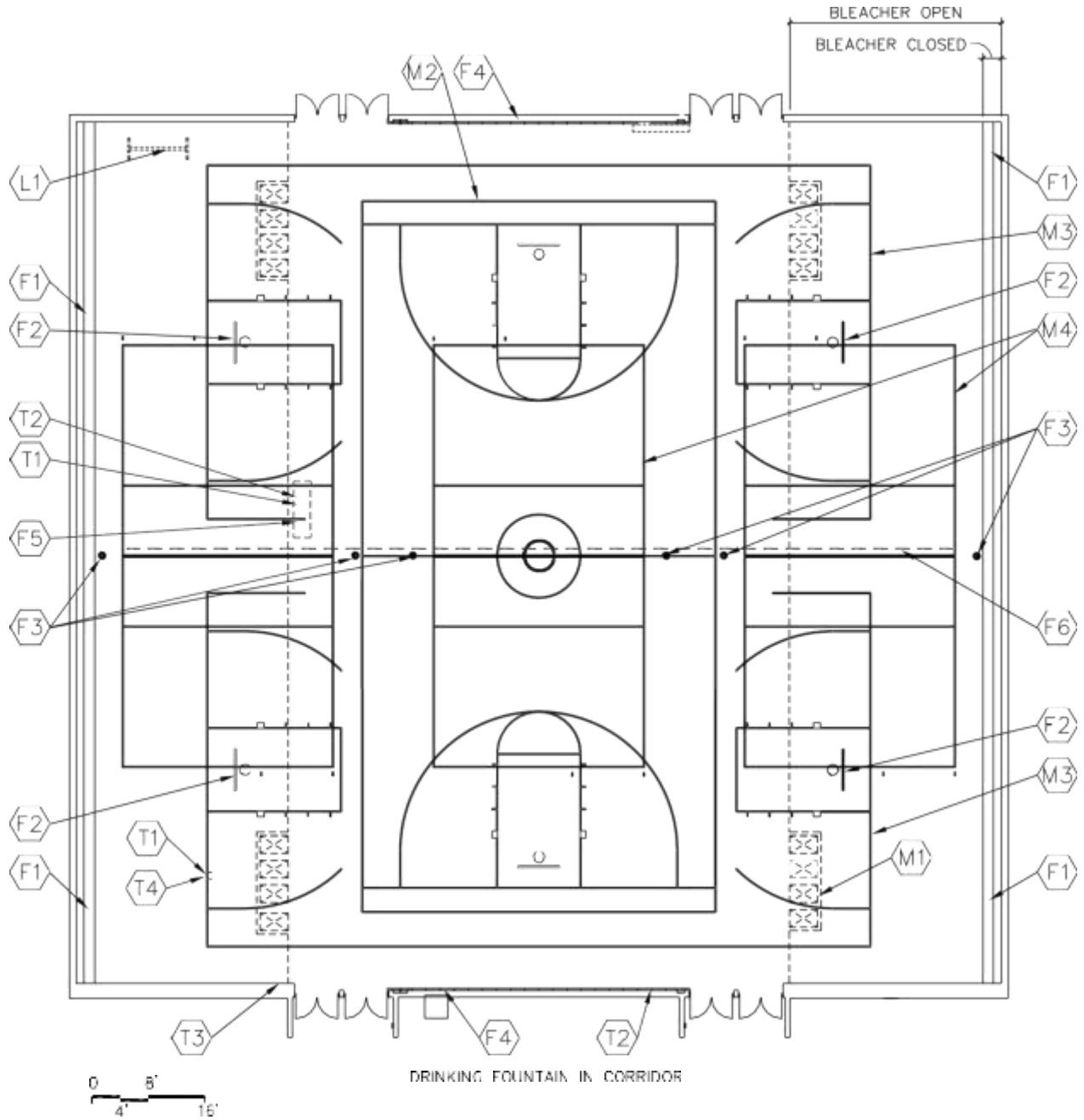
10,000 SF



**GYMNASIUM
H-PE-1**

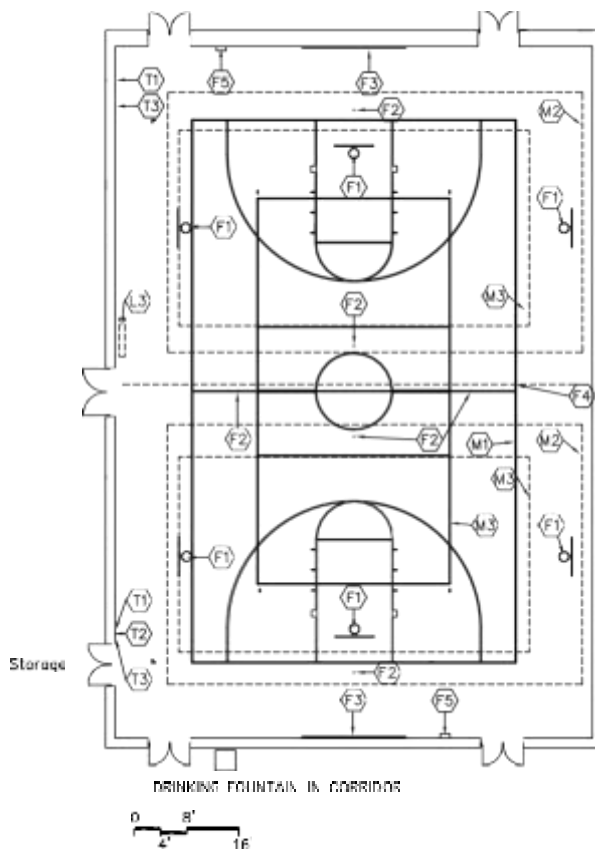
CHAPTER 6: HIGH SCHOOL

16,000 SF



AUXILIARY GYMNASIUM H-PE-2

CHAPTER 6: HIGH SCHOOL



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

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

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

**AUXILIARY GYMNASIUM
H-PE-2**

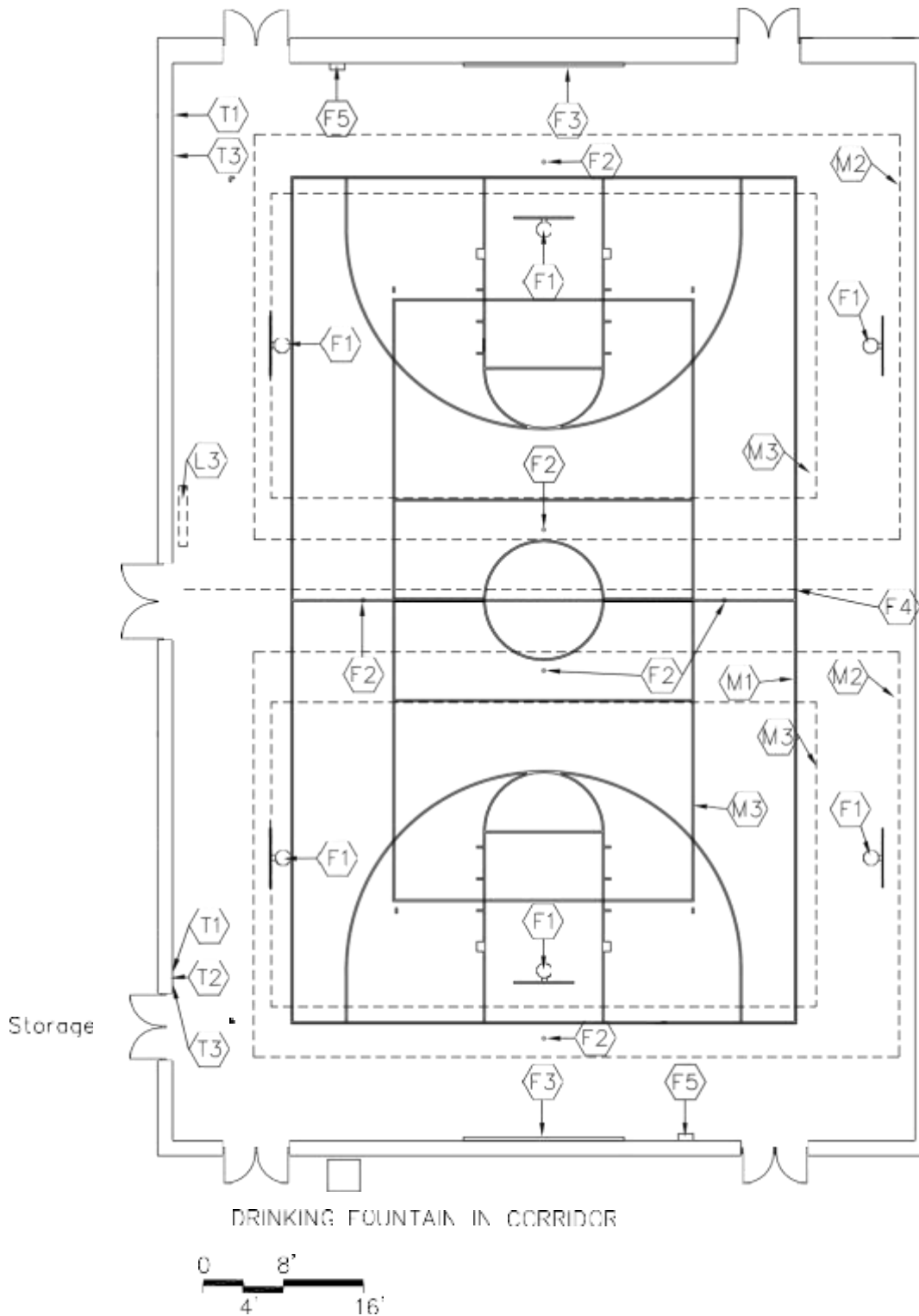
CHAPTER 6: HIGH SCHOOL

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
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:		<u>Fire Suppression:</u>	
Painted exposed structure	099100	Fire suppression system	211000
Walls:		<u>Plumbing:</u>	
Painted	099100	Drinking fountain	224000
Sound absorbing concrete masonry units on 2 walls or	042000	directly outside the entrance	
abuse-resistant acoustical wall treatment		<u>HVAC:</u>	
<u>LOOSE FURNISHINGS:</u>		Supply/return air system	Div. 23
L1 Portable markerboard		Independent temperature control	230923
		<u>Electrical:</u>	
		Multi-level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-6	
		8 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		Emergency lighting per code	265100
		Means of egress lighting per code	265100
		Electrical connections to P.E. equipment where necessary	262726
		Telecommunications Grounding	270526/260526
		<u>Communications:</u>	
		T1 2 projector video ports, 1 monitor with cart	271543/274119
		T2 1 voice port	271513/273113
		T3 2 data port	271513
		Clocks with wire guards	275313
		Central sound system	275123
		Gymnasium sound system	275124
<u>Miscellaneous:</u>		<u>Electronic Safety and Security:</u>	
Court markings (minimum)		Life safety devices per code	283111
M1 74' x 50' main basketball court			
M2 2 cross courts to fit			
M3 30'x60' volleyball court			
Provide wire guards on light fixtures and wall- mounted electrical devices.			

NOTES:

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

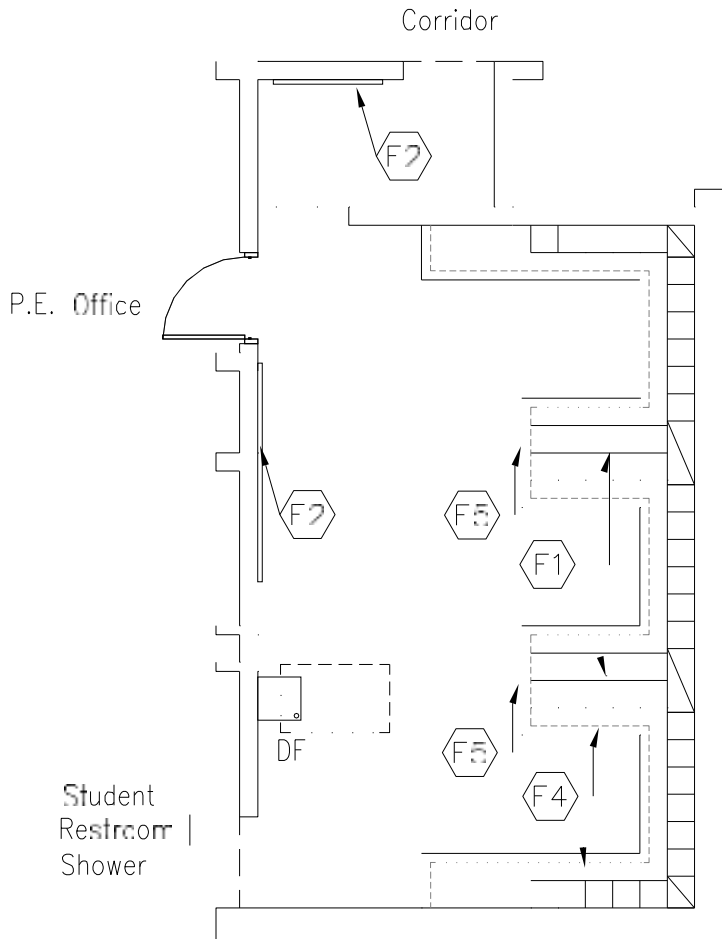
**AUXILIARY GYMNASIUM
H-P E-2**



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

CHAPTER 6: HIGH SCHOOL



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

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

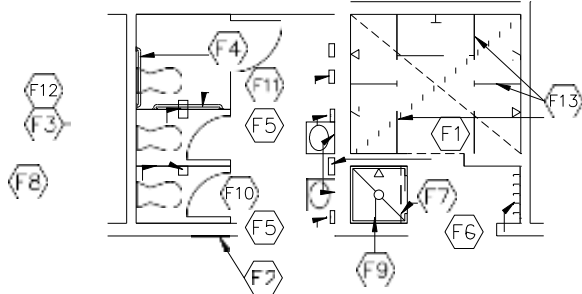
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Vinyl or rubber sheet flooring,	096500	F1 Athletic lockers	105113
rubber tile, or	096723	F2 8'-16' combination marker board, tack	
resinous flooring		board, tackable wall surface	101100
<u>Base:</u>		F3 Reserved	
Resilient base or	096500	F4 Locker benches	062000
resinous flooring	096723	F5 Mirrors	102813
<u>Ceiling:</u>		<u>Fire Suppression:</u>	
Suspended, acoustical with high-impact,		Fire suppression system	211000
hold-down clips	095113	<u>Plumbing:</u>	
Option: Exposed, painted pre-cast units	099100	Drinking fountain	224000/224700
<u>Walls:</u>		<u>HVAC:</u>	
Painted concrete masonry units	042000/099100	Supply air system	Div. 23
		Exhaust air system	Div. 23
		Independent temperature control	230923
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
Wastebaskets		Fluorescent lighting	265100
		illumination level: See Table 8600-6	
		2 duplex receptacles	262726
		Emergency lighting per code	265100
		Means of egress lighting per code	265100
		<u>Communications:</u>	
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

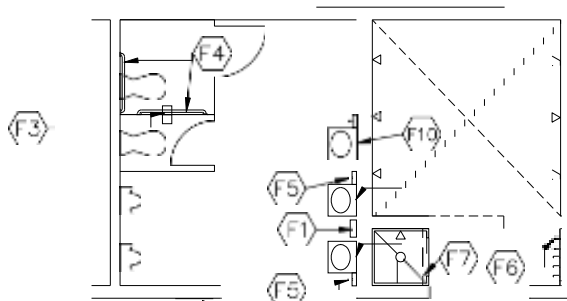
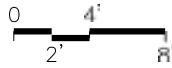
1. Finishes/Features: Refer to Chapter 9 for specification references.

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

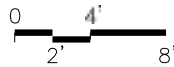
CHAPTER 6: HIGH SCHOOL



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:

- 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

FINISHES ¹ :	Spec. Ref.#	FEATURES ¹ :	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
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
<u>Base:</u>		F7 Shower curtain and rod	102813
Restroom: Resilient base, resinous flooring, or integral vinyl cove base	096500 093000 096723	F8 Toilet partitions	102813
Shower: Ceramic mosaic tile base, porcelain tile base, resinous flooring, or integral vinyl cove base		F9 ADA shower accessories	102813
		F10 16" x 24" mirrors with shelves	102813
		F11 Sanitary product dispensers ²	102813
		F12 Sanitary product receptacles ²	102813
		F13 Modesty shower partitions ²	102813
<u>Ceiling:</u>		<u>Fire Suppression:</u>	
Restroom: Suspended, acoustical with high-impact & hold-down clips	095113	Fire suppression system	211000
Shower: Painted portland cement plaster or interior finish system	092400/099100 092513	<u>Plumbing:</u>	
		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
<u>Walls:</u>		<u>HVAC:</u>	
Epoxy-painted concrete masonry units or ceramic wall tile in showers and latex paint in restroom	042000/099100 093000 099100	Supply/return air system	Div. 23
		Exhaust air system	Div. 23
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
Wastebaskets		Fluorescent lighting	265100
		Illumination level: See Table 8600-6	
		Single level switching	262726
		1 duplex receptacle	262726
		Emergency lighting	265100
		Means of egress lighting per code	265100
		<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:

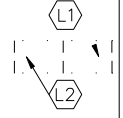
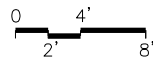
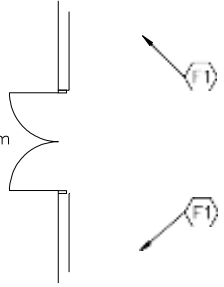
1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Toilet accessories and shower partitions for female locker rooms.
3. Optional: electric hand dryers

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

CHAPTER 6: HIGH SCHOOL

400 SF

Gymnasium



PROGRAM ACTIVITIES:

- Storage for physical education equipment

SPATIAL RELATIONSHIPS:

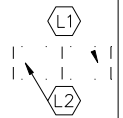
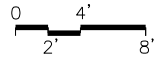
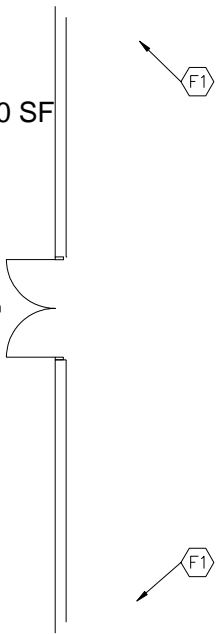
- Adjacent to gymnasium
- Near P.E./athletic office

ENVIRONMENTAL CONSIDERATIONS:

N/A

1,000 SF

Gymnasium



CAPACITY:

N/A

SIZE:

400 – 1,000 SF

ANCILLARY SPACES:

Gymnasium

H-PE-1

NOTES:

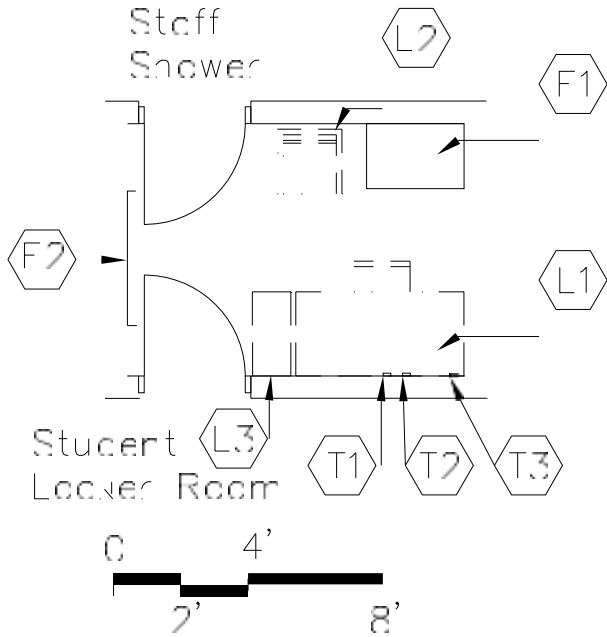
**PHYSICAL EDUCATION STORAGE
H-PE-5**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items²:</u>	
Sealed 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		
Walls:		<u>HVAC:</u>	
Unpainted concrete masonry units	042000	Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
L1 Tumbling mats on carts		Single level switching	262726
L2 Ball carts		Fluorescent lighting	265100
		Illumination level: See Table 8600-6	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

- 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

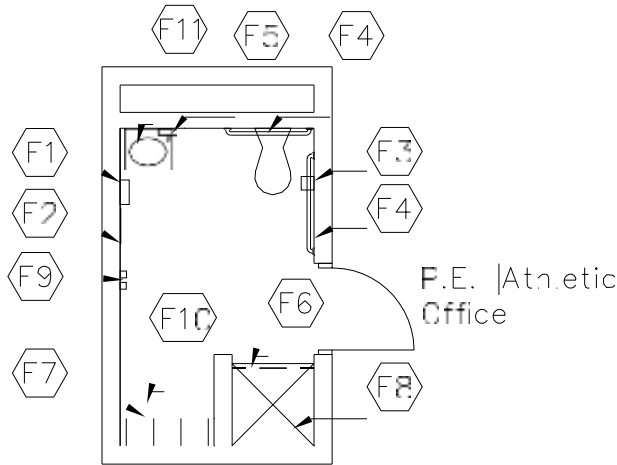
	Spec. Ref.#		Spec. Ref.#
<u>FINISHES</u> ¹ :		<u>FEATURES</u> ¹ :	
Flooring:		<u>Fixed Items:</u>	
Linoleum,	096500	F1 Tall wardrobe	123550
ET, sheet vinyl, or rubber	096516	F2 4' of tack board	101100
Base:		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<u>Plumbing:</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 8600-6	
Wastebasket		4 duplex receptacles	262726
		Double duplex receptacle adjacent to	
		each data port	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/273123
		T2 1 data port near teacher workstation	271513
		T3 1 projector video port	271543
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		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:

- 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:

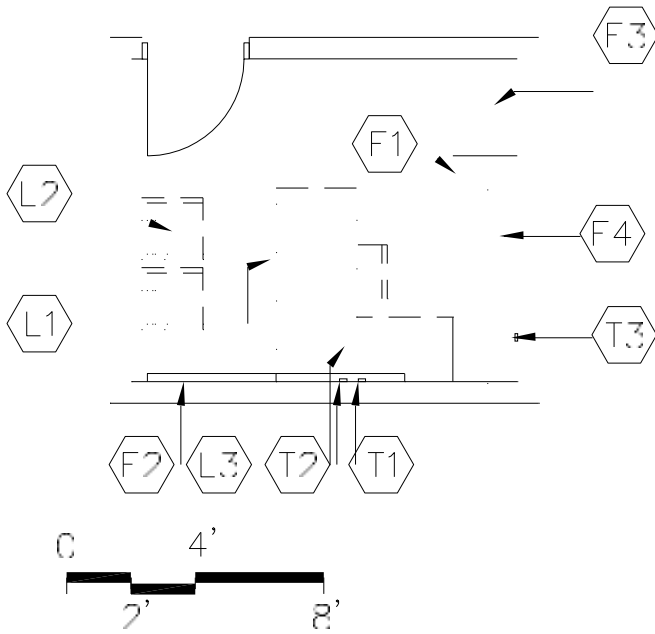
**STAFF SHOWER
H-PE-7**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Restroom: ET,	096500	F1 Towel dispenser	102813
sheet vinyl, or	096516	F2 24" x 60" mirror	102813
resinous flooring	093000	F3 Toilet tissue holder	102813
Shower: Ceramic mosaic tile,	096723	F4 36" and 42" grab bar	102813
porcelain tile, or resinous flooring		F5 Soap dispenser	102813
		F6 Shower curtain and rod	102813
<u>Base:</u>		F7 3 athletic lockers	105113
Restroom: Resilient base,	096500	F8 ADA Shower accessories	102813
resinous flooring, or	093000	F9 Towel hooks	102813
integral vinyl cove base	096723	F10 Built-in bench (optional)	102813
Shower: Ceramic mosaic tile base,		F11 Mirror over sink with shelf (optional)	102813
porcelain tile base, resinous flooring,			
or integral vinyl cove base			
		<u>Fire Suppression:</u>	
<u>Ceiling:</u>		Fire suppression system	211000
Restroom: Suspended, acoustical	095113		
Shower: Painted portland cement plaster		<u>Plumbing:</u>	
	092400/099100	Wall-mounted water closet	224000
or interior finish system	092513	Wall-mounted lavatory	224000
		ADA shower controls and head	224000
<u>Walls:</u>		Plumbing connections	224000/221116/221119
Epoxy painted concrete masonry units	042000/099100		
or ceramic wall tile in shower	093000	<u>HVAC:</u>	
and latex paint in restroom	099100	Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
<u>LOOSE FURNISHINGS:</u>			
Wastebasket		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



PROGRAM ACTIVITIES:

- Space for planning and scheduling

SPATIAL RELATIONSHIPS:

- Near gymnasium

ENVIRONMENTAL CONSIDERATIONS:

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

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

NOTES:

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

**ATHLETIC DIRECTOR'S OFFICE
H-PE-8**

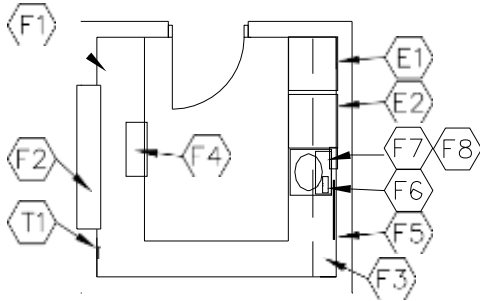
CHAPTER 6: HIGH SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>			
Carpet, carpet tile	096816	<u>Fixed Items:</u>	
Option: Linoleum, ET, or sheet vinyl	096813 096516 096500	F1 Work surface with file drawers	123550
		F2 4' of tack board or marker board tackable wall surface	101100
<u>Base:</u>		F3 Tall wardrobe	123550
Resilient base	096500	F4 Wall cabinets above work surface	123550
<u>Ceiling:</u>			
Suspended, acoustical	095113	<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>Walls:</u>			
Painted concrete masonry units	042000/099100	<u>Plumbing:</u>	
		N/A	
<u>LOOSE FURNISHINGS:</u>			
L1 Desk and chair		<u>HVAC:</u>	
L2 Visitor chairs		Supply/return air system	Div. 23
L3 Computer desk return		Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
Wastebasket		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to data and video port	262726
<u>Communications:</u>			
		T1 1 voice port and phone	271513/273123
		T2 1 data port near workstation	271513
		T3 1 projector video port	271543
		Central sound system	275123
		Clock	275313
<u>Electronic Safety and Security:</u>			
		Life safety devices per code	283111
<u>Miscellaneous:</u>			
		N/A	

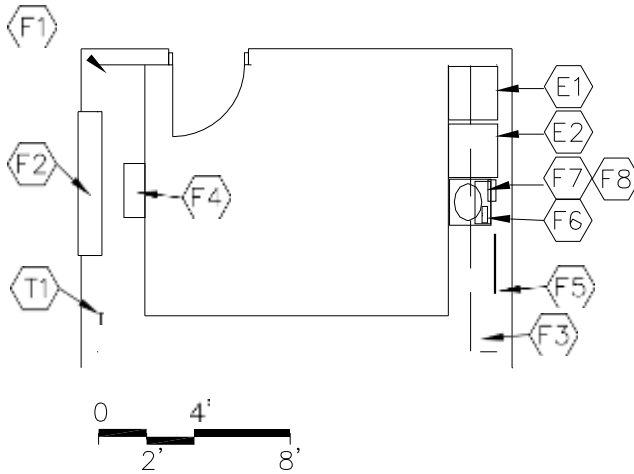
NOTES:

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

100 SF



200 SF



CAPACITY:
SIZE:

1 - 5 people
100 - 500 SF

PROGRAM ACTIVITIES:

- Space for ticket sales
- Space for concession sales

SPATIAL RELATIONSHIPS:

- Near gymnasium

ENVIRONMENTAL CONSIDERATIONS:

- Adequate ventilation

NOTES:

LOBBY SERVICES
H-PE-9

CHAPTER 6: HIGH SCHOOL

<u>FINISHES¹:</u>	<u>Spec. Ref.#</u>	<u>FEATURES:</u>	<u>Spec. Ref.#</u>
<u>Flooring:</u>		<u>Fixed Items:</u>	
Linoleum,	096516	F1 10' - 40' of base cabinets	123550
ET, sheet vinyl, or rubber	096500	F2 Coiling door	083320
		F3 Wall cabinets	123550
<u>Base:</u>		F4 Money drawer	
Resilient base	096500	F5 4' of tack board	101100
		F6 Soap dispenser	102813
<u>Ceiling:</u>		F7 Shelf above sink (optional)	102813
Suspended, acoustical	095113	F8 Towel dispenser	102813
		<u>Fire Suppression:</u>	
<u>Walls:</u>		Fire suppression system	211000
Painted concrete masonry units	042000/099100		
		<u>Plumbing:</u>	
<u>LOOSE FURNISHINGS:</u>		Washer connection	224000
Stool		Sink in cabinet	224000
		Plumbing connections	224000/221116/221119
<u>EQUIPMENT:</u>		<u>HVAC:</u>	
E1 Washer		Supply/return air system	Div. 23
E2 Dryer		Independent temperature control	230923
		Dryer vent connection	Div. 23
		<u>Electrical:</u>	
		8 duplex receptacles	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-9	
		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	

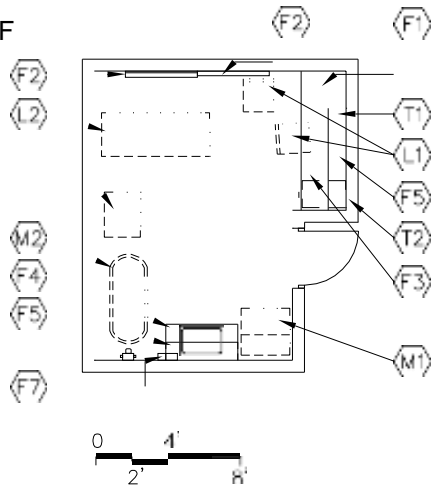
NOTES:

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

**TRAINING ROOM
H-PE-10**

CHAPTER 6: HIGH SCHOOL

200 SF



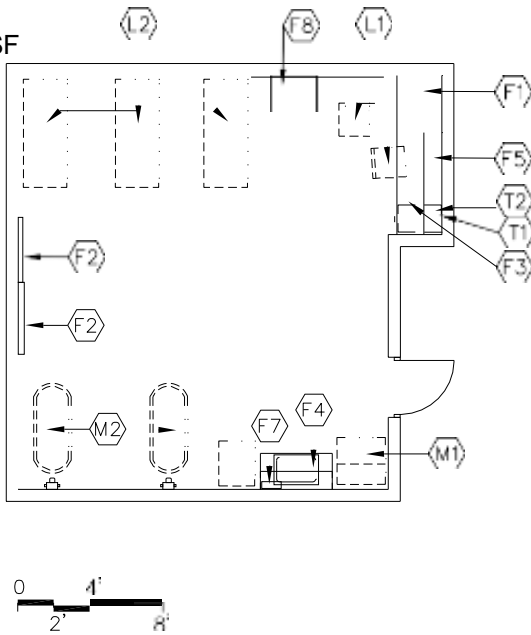
PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

500 SF



ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY:
SIZE:

3 – 7 persons
200 - 900 SF

NOTES:

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

**TRAINING ROOM
H-PE-10**

CHAPTER 6: HIGH SCHOOL

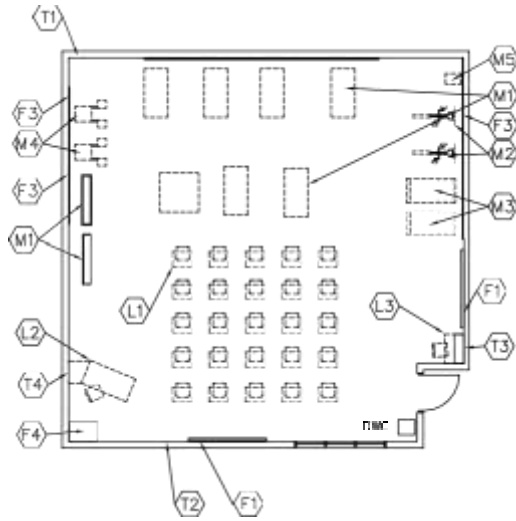
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Sheet vinyl, rubber, or rubber tile	096500	F1 Tall wardrobe with files	123550
<u>Base:</u>		F2 8'-12' combination chalk/marker board, tack board, tackable wall surface	101100
Resilient base	096500	F3 Work surface with file drawers	123550
<u>Ceiling:</u>		F4 3' sink base cabinet	123550
Suspended, acoustical	095113	F5 Wall cabinets	123550
<u>Walls:</u>		F6 Reserved	
Painted concrete masonry units	042000/099100	F7 Towel dispenser	102813
		F8 About 3' tall storage cabinet	123550
<u>LOOSE FURNISHINGS:</u>		<u>Fire Suppression:</u>	
L1 Chairs		Fire suppression system	211000
L2 Taping tables		<u>Plumbing:</u>	
Wastebasket		Plumbing connections	224000/221116/221119
		Whirlpool, sink, and washer/dryer	Div. 23
		<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Independent temperature control	230923
		<u>Electrical:</u>	
		Fluorescent lighting:	265100
		Illumination level: See Table 8600-6	
		Single level switching	262726
		2 duplex receptacles	262726
		Double duplex receptacle adjacent to each data port	262726
		Electrical power for ice machine and whirlpool	262726
		<u>Communications:</u>	
		T1 1 data port near trainer workstation	271513
		T2 1 voice port and phone	271513/ 273123
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		The following items are to be funded by the school district:	
		M1 Ice Machine	
		M2 Whirlpool	

NOTES:

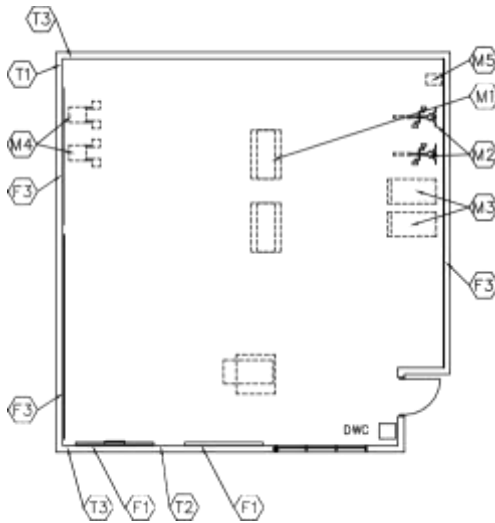
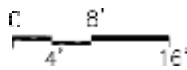
1. Finishes/Features: Refer to Chapter 9 for specification references.

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

CHAPTER 6: HIGH SCHOOL



2,000 SF



CAPACITY:
SIZE:

15 - 25 students
1,500 SF

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Near training room
- Near gymnasium
- Near locker rooms

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

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

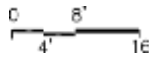
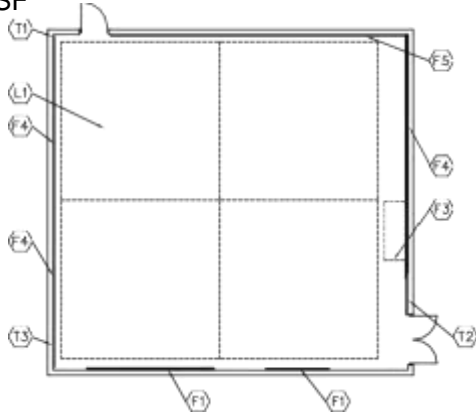
CHAPTER 6: HIGH SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Sheet vinyl, rubber, or rubber tile	096500	F1 8'-16' combination marker board, tack board, and tackable wall surface	101100
<u>Base:</u>		F2 Reserved	
Resilient base	096500	F3 5' high mirror mounted 12" above floor	088300
<u>Ceiling:</u>		F4 Tall wardrobe (optional)	123550
Suspended, acoustical	095113	<u>Fire Suppression:</u>	
<u>Walls:</u>		Fire suppression system	211000
Painted concrete masonry units	042000/099100	<u>Plumbing:</u>	
		Plumbing connections	224000/221116/221119
<u>LOOSE FURNISHINGS:</u>		Drinking water cooler	224000
L1 Student desks and chairs(if applicable)		<u>HVAC:</u>	
L2 Teacher workstation and chair		Supply/return air system	Div. 23
L3 Computer workstation		Independent temperature control	230923
File drawer		<u>Electrical:</u>	
Wastebasket		Fluorescent lighting:	265100
		Illumination level: See Table 8600-5	
		Multilevel switching	262726
		8 – 10 duplex receptacles	262726
		Double duplex receptacle adjacent to each data port	262726
		<u>Communications:</u>	
		T1 1 projector video port and video display device	271543/274119
		T2 1 voice port and phone	271513/273123
		T3 1 data port	271513
		T4 1 data port near teacher workstation	271513
		Clock	275313
		Central sound system	275123
		<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	

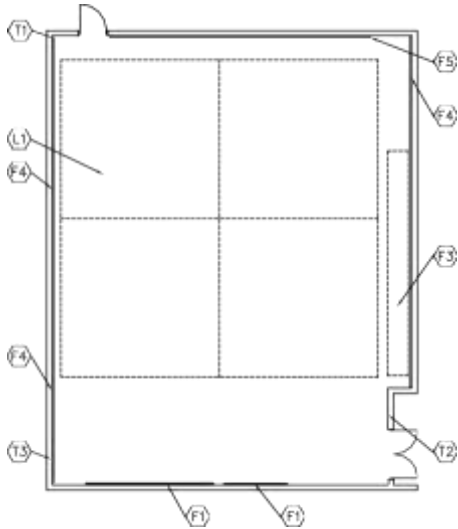
NOTES:

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:

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

NOTES:

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

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

CHAPTER 6: HIGH SCHOOL

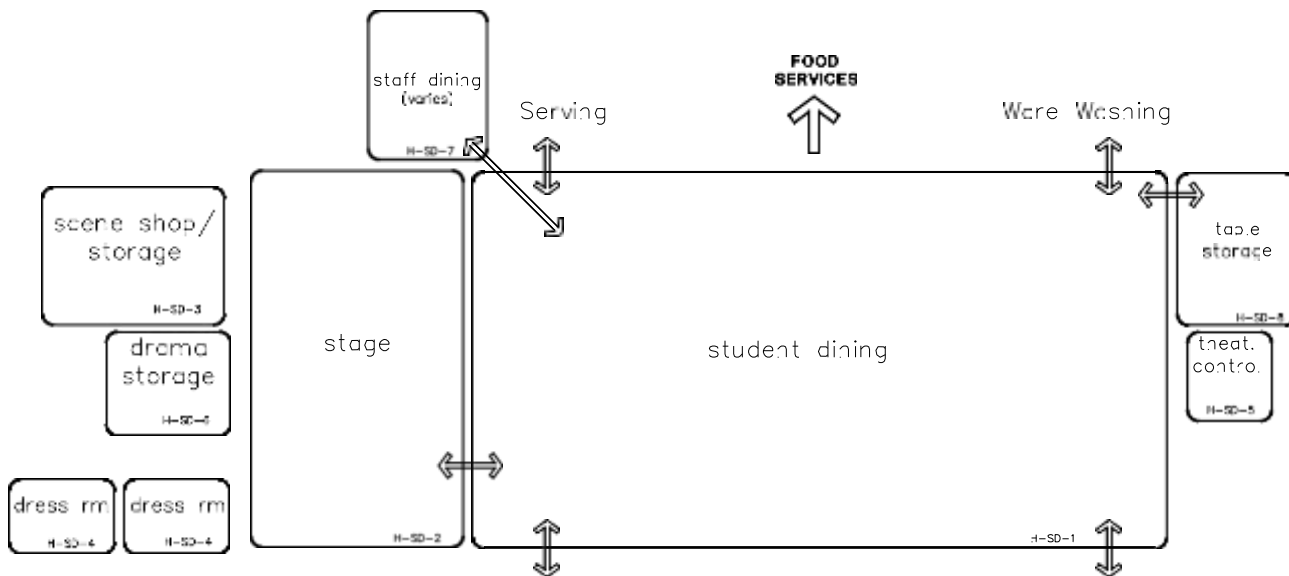
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Linoleum,	096516	F1 8'-24' combination marker board,	101100
ET, sheet vinyl, rubber, or	096500	tack board, and tackable wall surface	
fluid-applied athletic flooring	096766	F2 Reserved	
Base:		F3 Mat hoist (optional)	116623
Resilient base	096500	F4 Safety wall wainscot	116623
Ceiling:		<u>Fire Suppression:</u>	
Painted exposed structure	099100	Fire suppression system	211000
Walls:		<u>Plumbing:</u>	
Painted concrete masonry units	042000/099100	N/A	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Wrestling mat		Supply/return air system	Div. 23
		Independent temperature control	230923
		<u>Electrical:</u>	
		High intensity discharge lighting:	265100
		or fluorescent lighting	
		Illumination level: See Table	8600-5
		Multilevel switching	262726
		6 duplex receptacles	262726
		Double duplex receptacle adjacent to	
		each data and video port	262726
		Means of egress lighting	265100
		Emergency lighting per code	265100
		<u>Communications:</u>	
		T1 1 projector video port	271543
		T2 1 voice port	271513/273113
		T3 1 data port	271513
		Clock with wire guards	275313
		Central sound system horns	275123
		<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



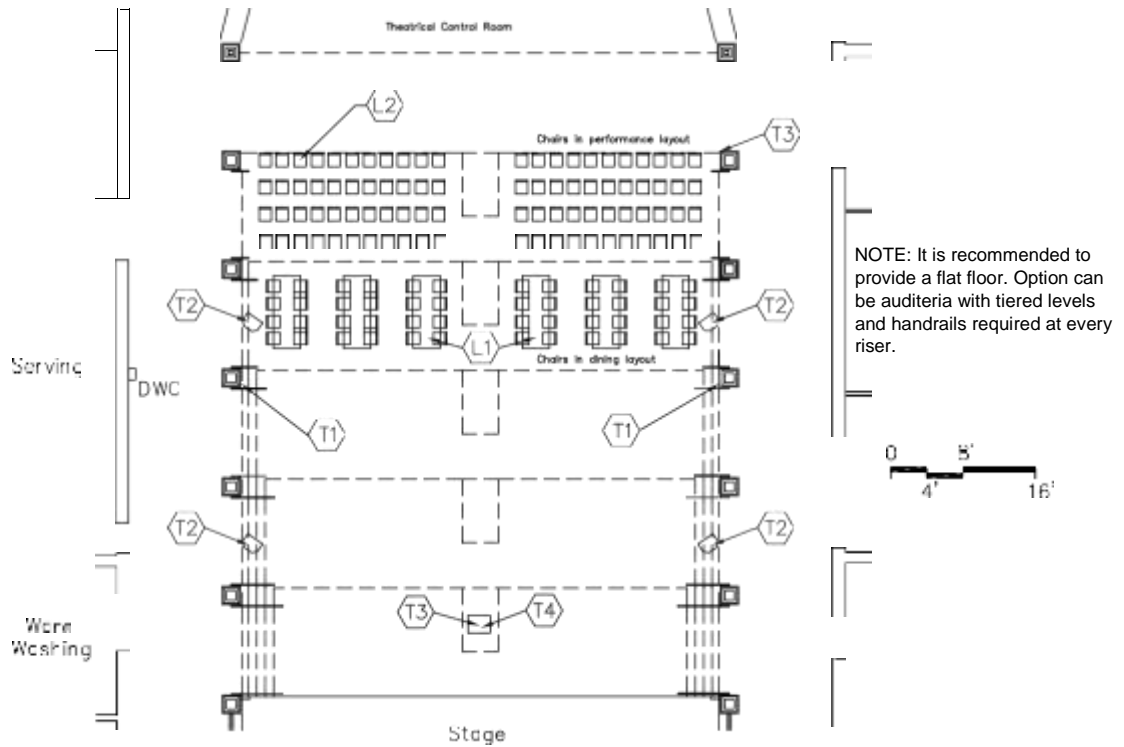
NOTES:

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:

- 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.

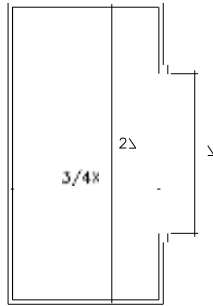
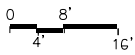
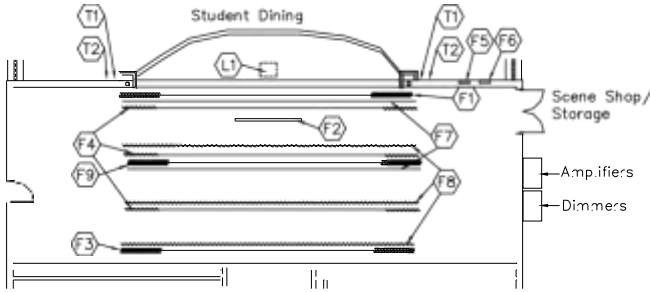
**STUDENT DINING
H-SD-1**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Linoleum, rubber, ET,	096500	N/A	
sheet vinyl, porcelain tile,	096516		
resinous flooring,	096723	<u>Fire Suppression:</u>	
polished concrete finishing,	033510	Fire suppression system	211000
or colored concrete finishing	033519		
<u>Base:</u>		<u>Plumbing:</u>	
Resilient base	096500	Drinking water cooler	224000
Option: Porcelain tile base	093000		
<u>Ceiling³:</u>		<u>HVAC:</u>	
Suspended, acoustical	095113	Supply/return air system	Div. 23
Painted exposed structure	099100	Independent temperature control	230923
Reflector panels	098000		
<u>Walls:</u>		<u>Electrical:</u>	
Painted concrete masonry units	042000/099100	High intensity discharge lighting	265100
Diffusing block on 2 walls		or fluorescent lighting	
(minimum) or	042000	Dimmable quartz lighting	265100
Acoustic treatment	098000	Theatrical lighting	265561
(varies with geometry of room)		Illumination level: see table 8600-6	
<u>LOOSE FURNISHINGS:</u>		Multilevel switching with dimming	262726 6
L1 Tables		duplex receptacles	262726
L2 Folding or high-density stack chairs		Double duplex receptacle adjacent to	
for large assembly use		each data and video port	262726
Waste receptacles		Emergency lighting per code	265100
Recycling bins		Means of egress lighting per code	265100
Carts for chairs		Telecommunications Grounding	270526/260526
Note: Cafeteria tables with attached stools shall be securely anchored to walls when not in use, or be kept in a secure storage area when not in use.		<u>Communications:</u>	
		T1 2 voice ports	271513/273123
		T2 2 projector video ports	271543
		T3 2 data ports (minimum)	271513
		Clocks	275313
		Central sound system	275123
		Student dining/auditeria sound system	275121
		T4 Ultra-short throw interactive projector	274119
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		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> ¹ :	Spec. Ref.#	<u>FEATURES</u> ¹ :	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Stage: Softwood or combination hardwood and softwood	096400	F1 Front curtain, track, and valance or grand border	116143
Stairs: Carpet, carpet tile, rubber, or wood	096816 096813	F2 Projection screen	116143
		F3 Rear curtain with track	116143
<u>Base:</u>		F4 Leg curtains, tracks, and/or pivots	116143
Ventilated resilient base	096400	F5 Sound control console receptacle	275121
		F6 Lighting control console receptacle	265100
<u>Ceiling:</u>		F7 Light pipe	116143
Painted exposed structure	099100	F8 Border curtains	116143
		F9 Mid-stage traveler	116143
<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 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 8600-6	
		6 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		Emergency lighting per code	265100
		Means of egress lighting per code	265100
		Telecommunications Grounding	270526/260526
		<u>Communications:</u>	
		T1 2 projector video ports (1 on each side of proscenium opening)	271543
		T2 2 data ports (1 on each side of proscenium opening)	271523
		Student dining/auditeria sound system ²	275121
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

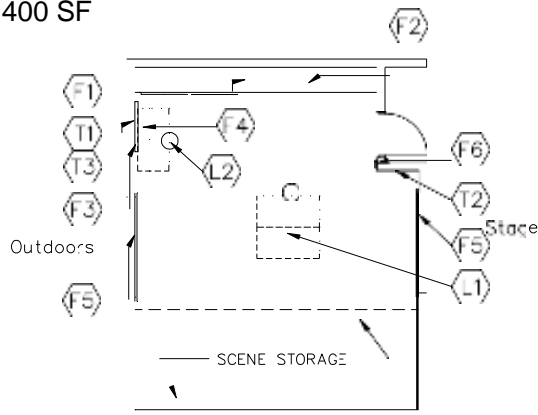
NOTES:

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



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

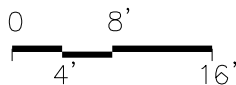
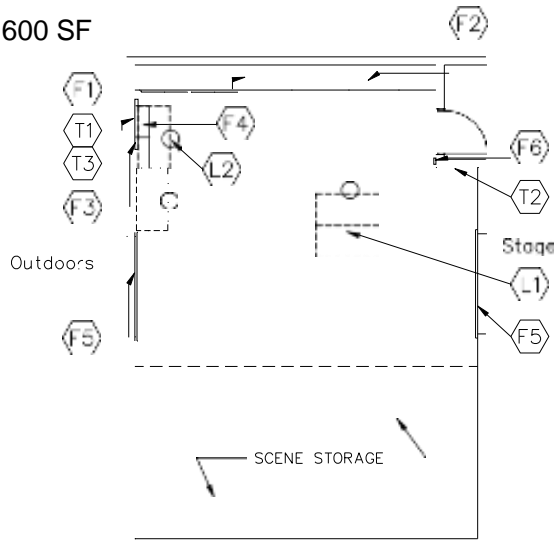
SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

600 SF



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

NOTES:

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

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

CHAPTER 6: HIGH SCHOOL

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES:</u>	
Flooring:		<u>Fixed Items²:</u>	
Sealed concrete	033000	F1 9'-22' of tall storage cabinets	123550
Base:		F2 5'-10' of wall cabinets (optional)	123550
Resilient base	096500	4' of tack board	101100
Ceiling:		F4 5'-10' base cabinet with	123550
Painted exposed structure	099100	work counter	
Walls:		F5 (2) 8' wide x 10' high overhead door	083613
Painted concrete masonry units	042000/099100	F6 Pencil sharpener support (optional)	062000
<u>LOOSE FURNISHINGS:</u>		<u>Fire Suppression:</u>	
L1 Work tables		Fire suppression system	211000
L2 Work bench stools		<u>Plumbing:</u>	
Waste receptacle		N/A	
		<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Independent temperature control	230923
		Manual exhaust	Div. 23
		<u>Electrical:</u>	
		Fluorescent lighting:	265100
		Illumination level: see table 8600-6	
		Single level switching	262726
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to	
		each data and video port	262726
		<u>Communications:</u>	
		T1 1 projector video port	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	
		Pencil sharpener (optional)	

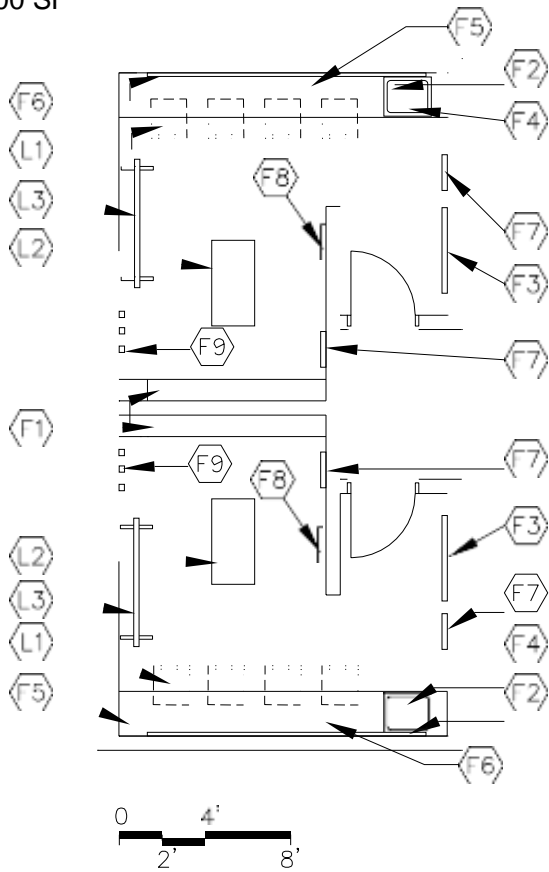
NOTES:

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

**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:

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

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

NOTES:

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

MAKEUP/DRESSING ROOMS
H-SD-4

CHAPTER 6: HIGH SCHOOL

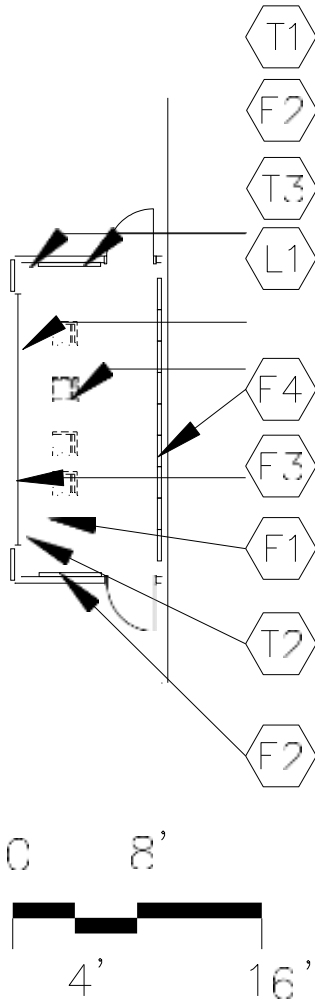
	Spec. Ref.#	<u>FEATURES:</u>	Spec. Ref.#
<u>FINISHES¹:</u>		<u>Fixed Items:</u>	
Flooring:		F1 6'-16' of costume	
Linoleum,	096516	storage cabinets	123550
ET, sheet vinyl, rubber,	096500	F2 Towel dispenser (optional)	102813
resinous flooring,	096723	F3 4'-8' of tack board	101100
polished concrete flooring, or	033510	F4 3' sink base cabinet	123550
or colored concrete finishing	033519	F5 8'-13' of work surface	123550
Base:		F6 48" high makeup mirrors -	
Resilient base, or	096500	full length of work surface	088300
integral vinyl cove base		F7 2 minimum 20" wide x 60" high	
		dressing mirrors	088300
Ceiling:		F8 Shallow wall cabinet for makeup	123550
Suspended, acoustical	095113	(optional)	
Walls:		F9 Coat hooks	102813
Paint		<u>Fire Suppression:</u>	
099100		Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Chairs		Sink	224000
L2 Bench		Plumbing connections	
L3 Mobile costume rack			224000/221116/221119
Wastebasket		<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Independent temperature control	230923
		<u>Electrical:</u>	
		Fluorescent lighting: overhead	265100
		Fluorescent or LED lighting:	
		over makeup mirrors	265100
		Illumination level: See Table 8600-6	
		Single level switching	262726
		2 duplex receptacles	262726
		Duplex receptacle at each makeup	
		station under mirror	262726
		Telecommunications Grounding	
			270526/260526
		<u>Communications:</u>	
		Clock	275313
		Student Dining/Auditeria sound system	
			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.

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

CHAPTER 6: HIGH SCHOOL



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

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

NOTES:

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

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

CHAPTER 6: HIGH SCHOOL

	Spec. Ref.#	Spec. Ref.#	
<u>FINISHES¹:</u>		<u>FEATURES:</u>	
Flooring:		<u>Fixed Items:</u>	
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, or	033510	F3 Operable window (optional)	085113
colored concrete finishing	033519	F4 Acoustic wall treatment (optional)	098000
Base:		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Suspended, acoustical	095113	N/A	
Walls:		<u>HVAC:</u>	
Painted gypsum wallboard		Supply/return air system	Div. 23
Acoustical wall treatment	042000/099100	Independent temperature control	230923
	098000	<u>Electrical:</u>	
<u>LOOSE FURNISHINGS:</u>		Fluorescent lighting: overhead	265100
L1 Chairs		Illumination level: See Table 8600-6	
Wastebasket		Dimmable task	
		lighting on work surface	265100
		Single level switching	262726
		Student dining/auditeria lighting	
		wired through stage dimmer panel	
			265561
		4 duplex receptacles	262726
		Provisions for hard-wired equipment	
			260519/260533
		Empty communications conduit	
		with pull cable from stage for	
		future video projection control	Div. 26
		Stage dimming system	
		control panel	265561
		Telecommunications Grounding	
			270526/260526
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/273123
		T2 1 projector video port	271543
		T3 2 data ports	271513
		Student Dining/Auditeria sound system	
		control panel	275121
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

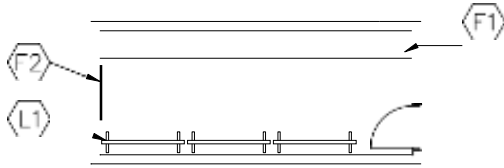
NOTES:

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

**DRAMA STORAGE
H-SD-6**

CHAPTER 6: HIGH SCHOOL

200 SF



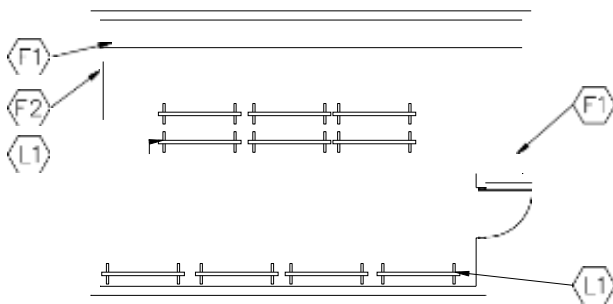
PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

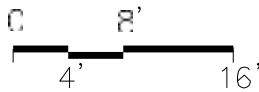
- Near scene shop/storage
- Near stage
- Near auditoria/student dining

600 SF



ENVIRONMENTAL CONSIDERATIONS:

N/A



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

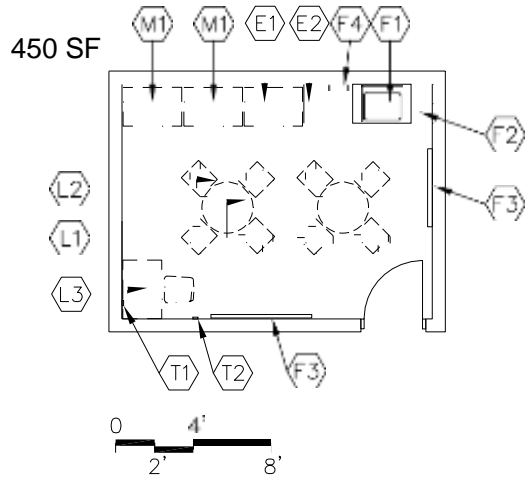
	Spec. Ref.#		Spec. Ref.#
<u>FINISHES</u> ¹ :		<u>FEATURES</u> :	
Flooring:		<u>Fixed Items</u> :	
Sealed concrete,	033000	F1 10'-22' of costume storage cabinets	123550
polished concrete finishing, or	033510	F2 4' of tack board (optional)	101100
colored concrete finishing	033519		
Base:		<u>Fire Suppression</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		To be determined by Design Professional	
	042000/099100	Supplementary heat as required	Div. 23
<u>LOOSE FURNISHINGS</u> :		<u>Electrical</u> :	
L1 Mobile clothes racks		Fluorescent lighting:	265100
		Illumination level: See Table 8600-6	
		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.

**STAFF DINING
H-SD-7**

CHAPTER 6: HIGH SCHOOL



PROGRAM ACTIVITIES:

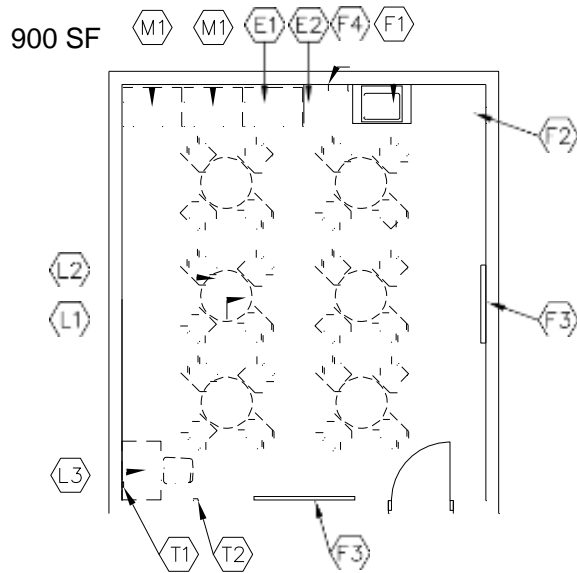
- Space for staff dining

SPATIAL RELATIONSHIPS:

- Near student dining
- Near food services

ENVIRONMENTAL CONSIDERATIONS:

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



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

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<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
resinous flooring	093000	F3 8'-10' combination marker board,	101100
	096723	tack board, and tackable wall surface	
Base:		F4 Towel dispenser	102813
Resilient base	096500		
Optional: porcelain tile base	093000	<u>Fire Suppression:</u>	
		Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Suspended, acoustical	095113	Sink	224000
Walls:		Plumbing connections	224000/221116/221119
Painted, concrete masonry units	042000/099100		
		<u>HVAC:</u>	
<u>LOOSE FURNISHINGS:</u>		Supply/return air system	Div. 23
L1 Tables		Independent temperature control	230923
L2 Chairs			
L3 Computer workstation		<u>Electrical:</u>	
Waste receptacle		Single level switching	262726
		Fluorescent lighting	265100
<u>EQUIPMENT:</u>		Illumination level: See Table 8600-6	
E1 Refrigerator with icemaker		4 duplex receptacles	262726
E2 Microwave		Double duplex receptacle adjacent to	
		each video port	262726
		Receptacles for vending machines,	
		refrigerator, and microwave	262726
		<u>Communications:</u>	
		T1 1 projector video port	271543
		T2 1 voice port and phone	271513/273123
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		The following items are to be funded by the	
		school district:	
		M1 Vending machines	

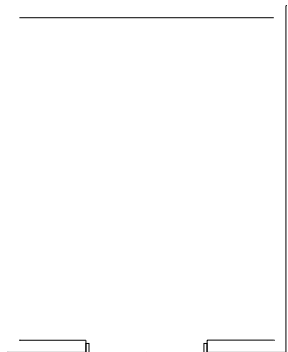
NOTES:

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

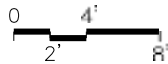
**TABLE STORAGE
H-SD-8**

CHAPTER 6: HIGH SCHOOL

400 SF



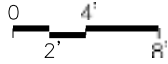
Student Dining



700 SF



Student Dining



CAPACITY:

SIZE:

ANCILLARY SPACES:

N/A

400 - 700 SF

Student Dining

H-SD-1

PROGRAM ACTIVITIES:

- Storage for tables and chairs

SPATIAL RELATIONSHIPS:

- Adjacent to student dining
- Near food services

ENVIRONMENTAL CONSIDERATIONS:

NOTES:

**TABLE STORAGE
H-SD-8**

CHAPTER 6: HIGH SCHOOL

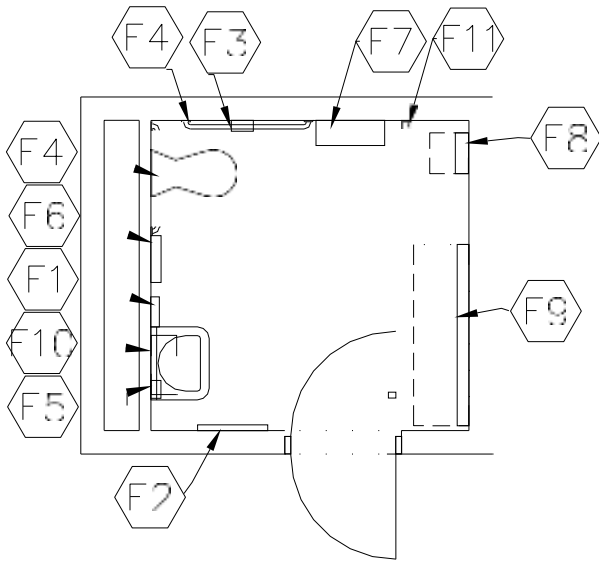
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Sealed concrete	093000	N/A	
Base:		<u>Fire Suppression:</u>	
No base		Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Exposed structure		N/A	
Option: Rated gypsum wallboard	092116	<u>HVAC:</u>	
Walls:		Exhaust air system	Div. 23
Unpainted concrete masonry units	042000	Supplemental heat as required	Div. 23
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
N/A		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-6	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

**FAMILY RESTROOM
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:

- 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

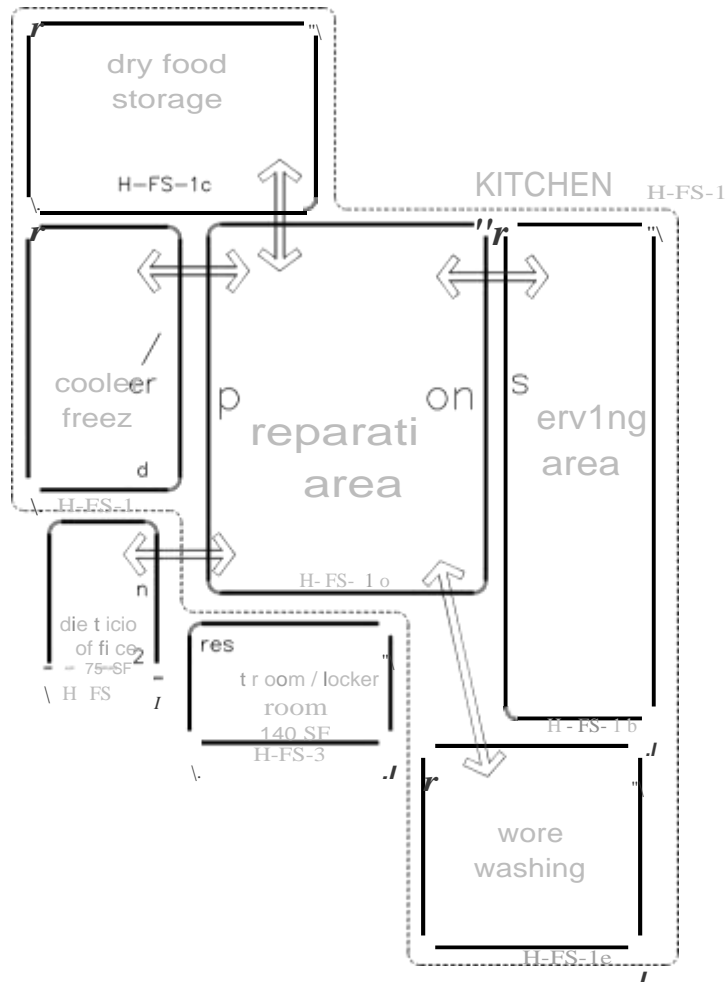
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Sheet vinyl,	096516	F1 Towel dispenser	102813
ceramic mosaic tile, or ET	096500	F2 24" x 60" mirror	102813
Optional: Ceramic mosaic tile,	093000	F3 Toilet tissue holder	102813
porcelain tile, or	096723	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>HVAC:</u>	
<u>LOOSE FURNISHINGS:</u>		Exhaust air system	Div. 23
Wastebasket		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

FOOD SERVICE SPACES H-FS

CHAPTER 6: HIGH SCHOOL



NOTES:

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

Following are the Food Service space plates:

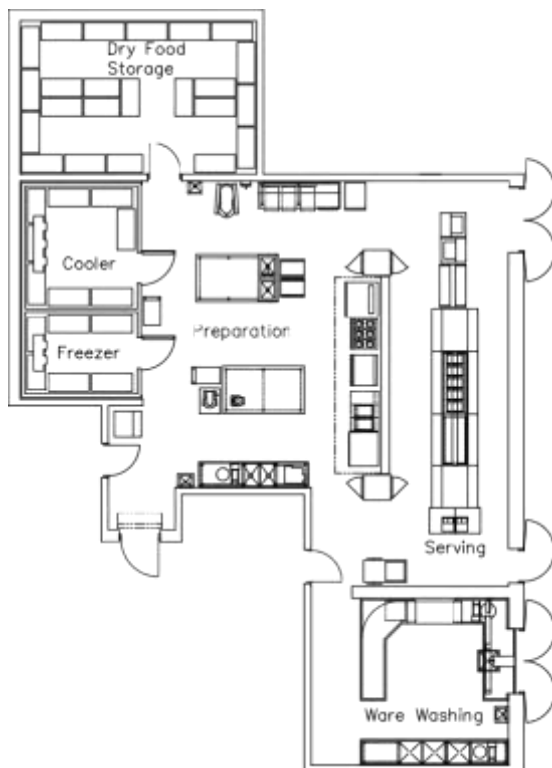
H-FS-0	Warming Kitchen
H-FS-1	Kitchen
H-FS-1a	Preparation Area
H-FS-1b	Serving Area
H-FS-1c	Dry Food Storage
H-FS-1d	Cooler/Freezer
H-FS-1e	Ware Washing
H-FS-2	Custodial Closet
H-FS-3	Dietician Office
H-FS-4	Restroom/Locker Room

KITCHEN H-FS-1

This space consists of various areas:

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

A space plate follows for each of these areas.



CAPACITY: 3 – 10 persons
 SIZE: Student capacity multiplied by 3.5 SF
 per student
 ANCILLARY SPACES: Student Dining
 H-SD-1
 Loading/Receiving Area
 H-BS-9

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

- Compliance with State Board of Health requirements

MISCELLANEOUS:

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

NOTES:

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

**WARMING KITCHEN
H-FS-0**

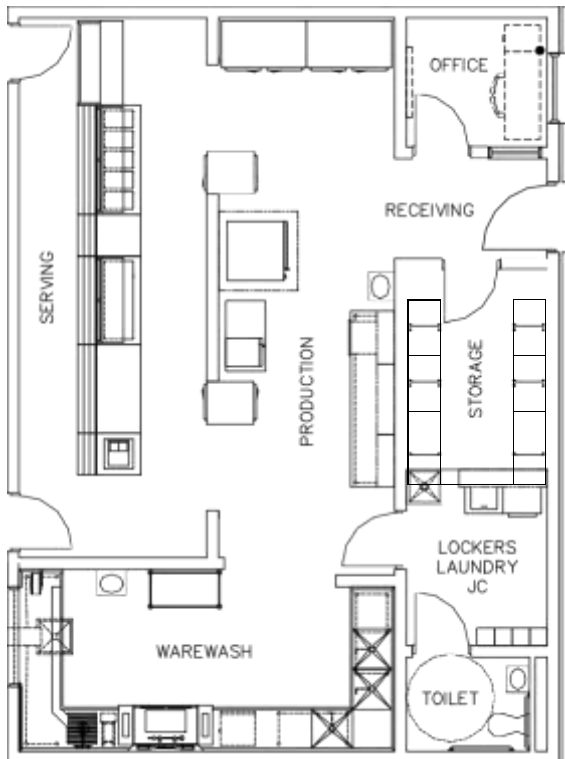
CHAPTER 6: HIGH SCHOOL

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.

CAPACITY: 3 - 7 persons

SIZE: Student capacity multiplied by 2.0 SF per student

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

NOTES:

**WARMING KITCHEN
H-FS-0**

CHAPTER 6: HIGH SCHOOL

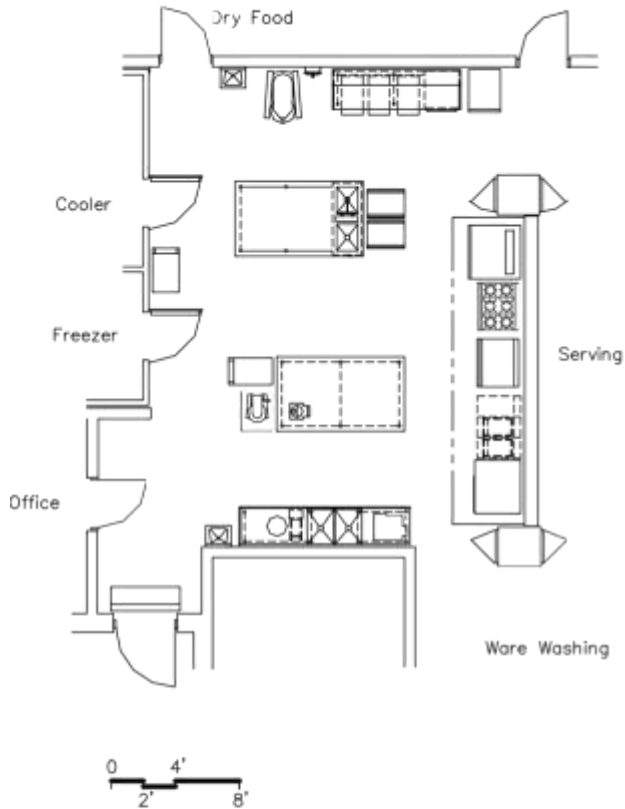
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Quarry tile or resinous flooring	093000 096723	Food service equipment	114000
Base:		<u>Fire Suppression:</u>	
Quarry tile base or integral base	093000	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Cleanable, suspended, acoustical	095113	Connections to food service eqpt.	224000
Walls:		Plumbing connections	224000/221116/221119
Epoxy-painted concrete masonry units	042000/099100	Hand washing lavatory	224000
Option: Ceramic wall tile or latex paint	093000 099100	Gas connections	226313
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
N/A		Supply/return air system	Div. 23
		Independent temperature control	230923
		Kitchen canopy exhaust system	233800
		<u>Electrical:</u>	
		Dual level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-6	
		10 duplex receptacles	262726
		Duplex receptacle at each cash register	262726
		Emergency lighting	265100
		Connections to food service eqpt.	262726
		Means of egress lighting per code	265100
		<u>Communications:</u>	
		1 voice port and phone	271513/ 273123 1
		data port at cash register(s)	271513
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

KITCHEN - Preparation Area H-FS-1a

CHAPTER 6: HIGH SCHOOL



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

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

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

CHAPTER 6: HIGH SCHOOL

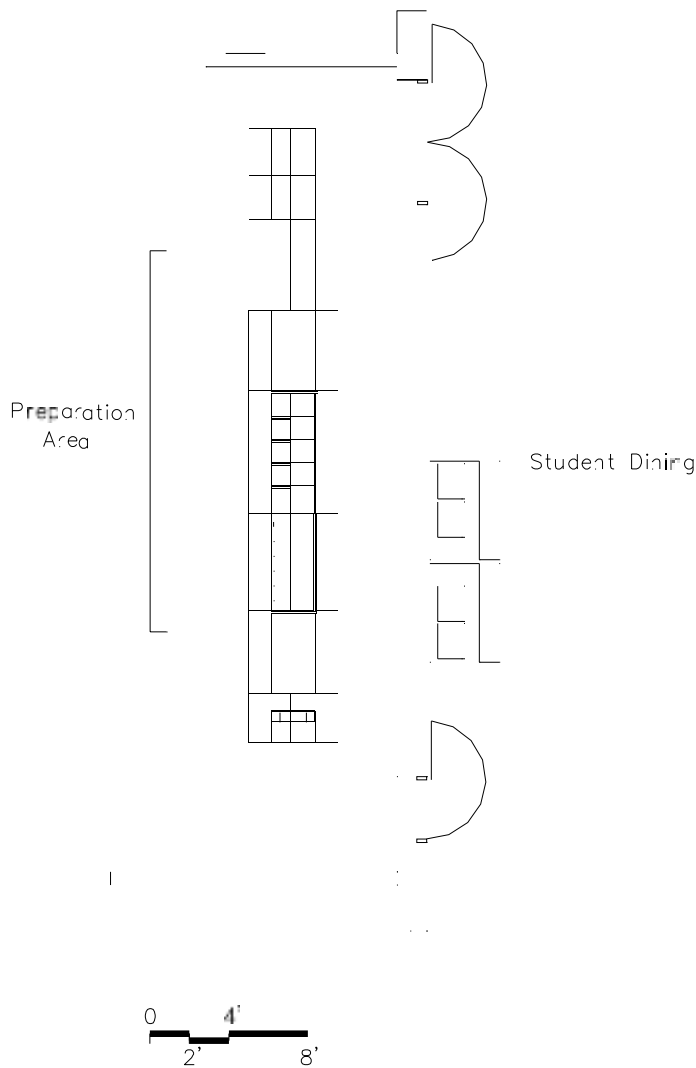
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Quarry tile or resinous flooring	093000 096723	Food service equipment	114000
Base:		<u>Fire Suppression:</u>	
Quarry tile base or integral base	093000	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Cleanable, suspended, acoustical	095113	Connections to food service equipment	224000
Walls:		Plumbing connections	224000/221116/221119
Epoxy-painted concrete masonry units	042000/099100	Hand washing lavatory	224000
Option: ceramic wall tile	093000	Gas connections	226313
or latex paint	099100	<u>HVAC:</u>	
<u>LOOSE FURNISHINGS:</u>		Supply/return air system	Div. 23
N/A		Independent temperature control	230923
		Kitchen canopy exhaust system	233800
		<u>Electrical:</u>	
		Dual level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-6	
		4 duplex receptacles	262726
		Emergency lighting	265100
		Connections to food service equipment	262726
		Means of egress lighting per code	265100
		<u>Communications:</u>	
		1 voice port and phone	271513/ 273123
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

**KITCHEN - Serving Area
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:

- 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

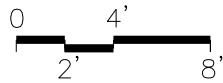
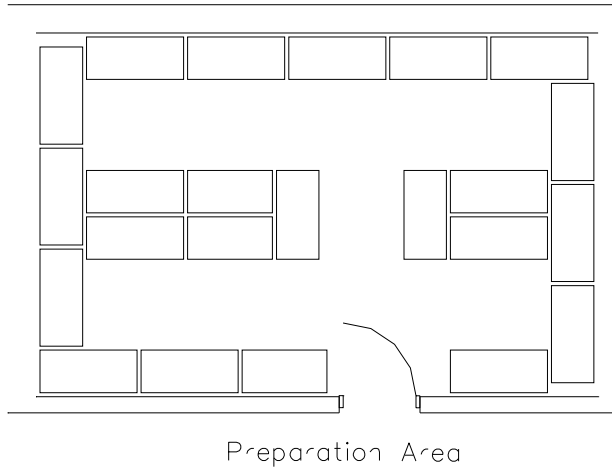
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		Fixed Equipment:	
Quarry tile	093000	Food service equipment	114000
Optional: porcelain tile <i>or</i> <i>resinous flooring</i>	096723	<u>Fire Suppression:</u>	
Base:		Fire suppression system	211000
Quarry tile base	093000	<u>Plumbing: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

NOTES:

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

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

CHAPTER 6: HIGH SCHOOL



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

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

- Continuous conditioning of air
- Cleanable building surfaces

NOTES:

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

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

CHAPTER 6: HIGH SCHOOL

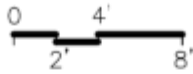
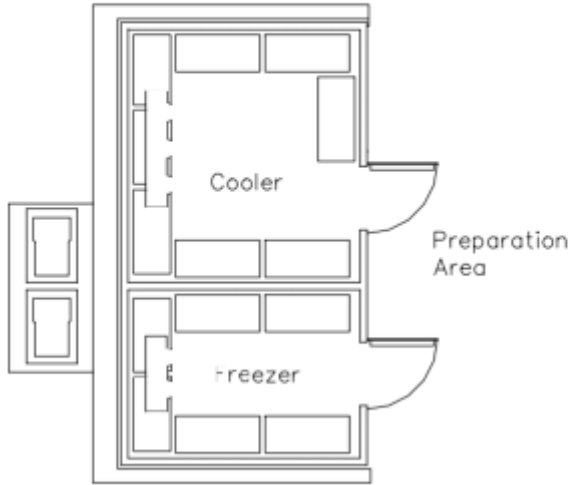
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Linoleum, ET, or sheet vinyl	096500	Food service equipment	114000
Option: Quarry tile or resinous flooring	093000 096516 096723	<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>Base:</u>		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

NOTES:

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

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

CHAPTER 6: HIGH SCHOOL



PROGRAM ACTIVITIES:

- Space for refrigerated storage of perishable products

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

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

NOTES:

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

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

CHAPTER 6: HIGH SCHOOL

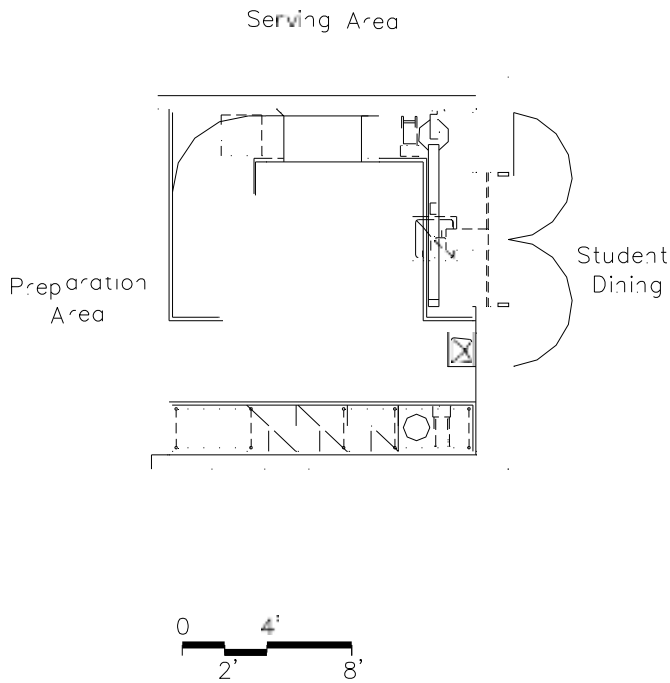
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Quarry tile or resinous flooring	093000	Food service equipment	114000
	096723		
Base:		<u>Fire Suppression:</u>	
Quarry tile base or integral base	093000	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>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

NOTES:

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

**KITCHEN - Ware Washing
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:

- 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

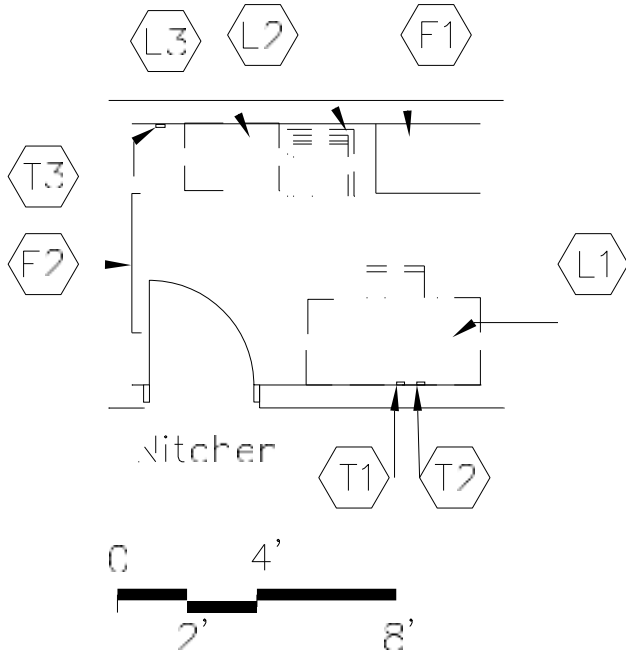
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Quarry tile or resinous flooring	093000	Food service equipment	114000
	096723		
Base:		<u>Fire Suppression:</u>	
Quarry tile base or integral base	093000	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>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

NOTES:

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

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

CHAPTER 6: HIGH SCHOOL



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Adjacent to kitchen

ENVIRONMENTAL CONSIDERATIONS:

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

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

NOTES:

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

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

CHAPTER 6: HIGH SCHOOL

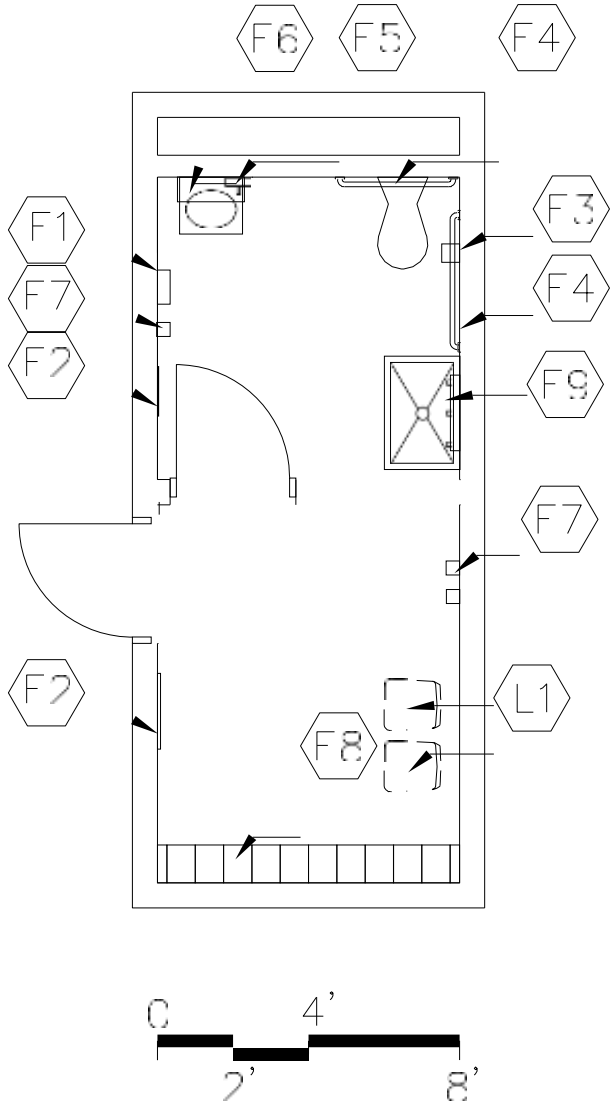
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>			
Linoleum, ET, or sheet vinyl	096500	F1 Tall wardrobe (optional)	123550
Option: Quarry tile or resinous flooring	096516 093000 096723	F2 4' of tack board	101100
<u>Base:</u>			
Resilient base	096500	<u>Fire Suppression:</u>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

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

NOTES:

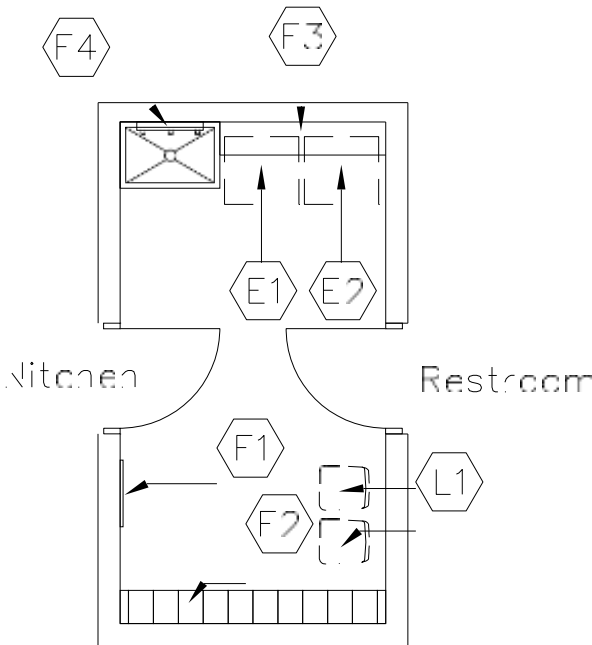
**RESTROOM / LOCKER ROOM
H-FS-3**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:			
ET, sheet vinyl,	096516	Fixed Items:	
	096500	F1 Towel dispenser	102813
Optional: quarry tile, resinous flooring	093000 096723	F2 2 , 24" x 60" mirrors	102813
		F3 Toilet tissue holder	102813
		F4 36" and 42" grab bar	102813
		F5 Soap dispenser	102813
Base:		F6 Mirror with shelf above sink(optional)	102813
Resilient base	096500	F7 Coat hooks	102813
Optional: quarry tile, or integral vinyl cove base, integral resinous	093000 096723	F8 Lockers 12" x 12" x 60"	105113
		F9 Mop holder	102813
Ceiling:		Fire Suppression:	
Suspended, acoustical	095113	Fire suppression system	211000
Walls:		Plumbing:	
Painted concrete masonry units	042000/099100	Wall-mounted water closet	224000
		Wall-mounted lavatory	224000
		Floor service sink	224000
		Plumbing connections	224000/221116/221119
LOOSE FURNISHINGS:		HVAC:	
L1 Chairs		Exhaust air system	Div. 23
Wastebasket		Supplemental heat as required	Div. 23
		Electrical:	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-6	
		2 duplex receptacles	262726
		Communications:	
		Central sound system	275123
		Electronic Safety and Security:	
		Life safety devices per code	283111
		Miscellaneous:	
		N/A	

NOTES:

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



PROGRAM ACTIVITIES:

- Space for the food service staff to store their personal belongings and to change their clothing
- Space for the washing, drying, and storage of towels, aprons, etc.
- ***This space could replace H-FS-3***

SPATIAL RELATIONSHIPS:

- Adjacent to kitchen
- Adjacent to restroom

ENVIRONMENTAL CONSIDERATIONS:

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

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.

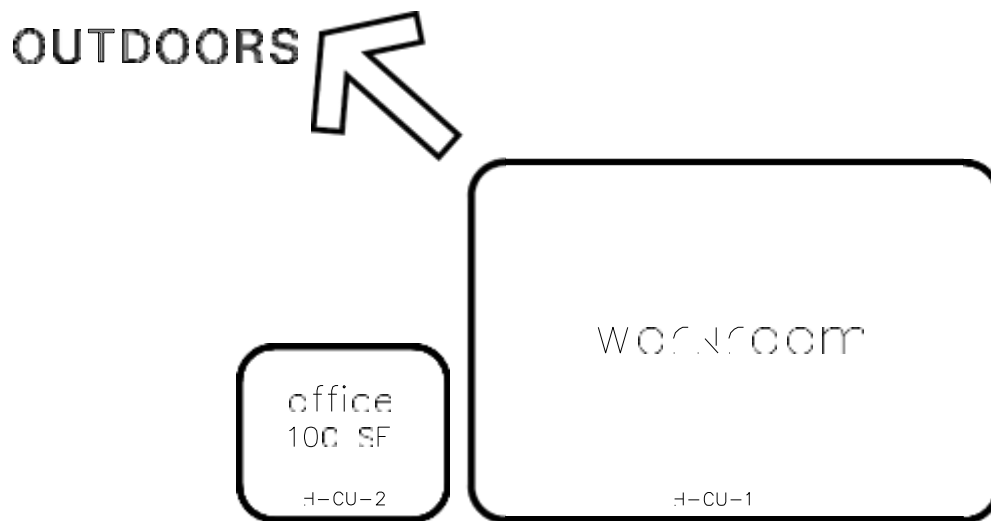
**LOCKER ROOM
H-FS-4**

CHAPTER 6: HIGH SCHOOL

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

NOTES:

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



NOTES:

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

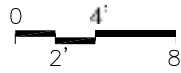
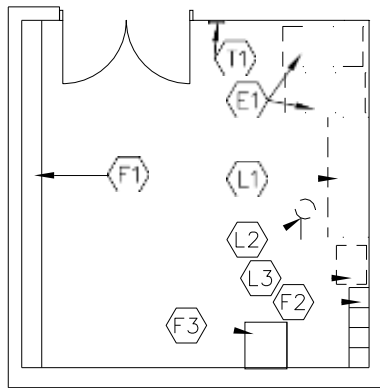
Following are the Custodial space plates:

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

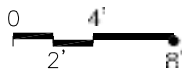
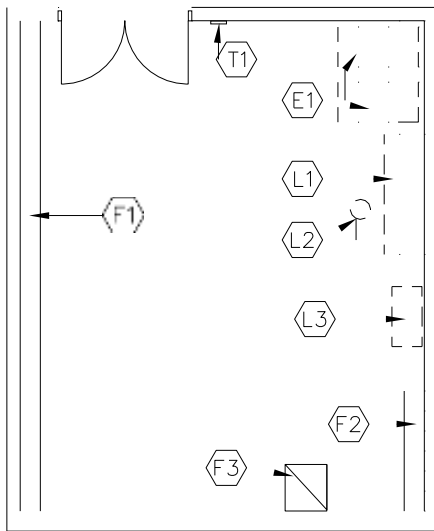
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CHAPTER 6: HIGH SCHOOL

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:

N/A

NOTES:

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

**WORKROOM
H-CU-1**

CHAPTER 6: HIGH SCHOOL

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

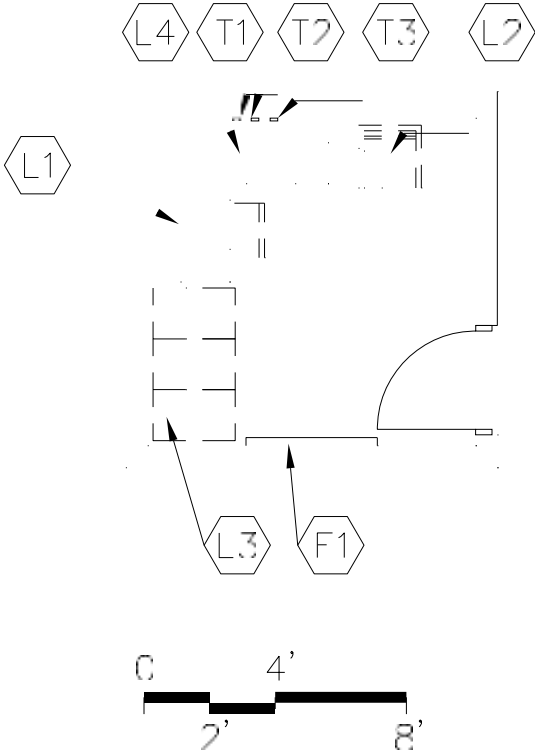
NOTES:

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

**CUSTODIAL OFFICE
H-CU-2**

CHAPTER 6: HIGH SCHOOL

100 SF



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Near custodial workroom

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY: N/A
SIZE: 100 - 400 SF

NOTES:

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

**CUSTODIAL OFFICE
H-CU-2**

CHAPTER 6: HIGH SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:			
Linoleum,	096516	Fixed Items:	
ET, sheet vinyl, or	096500	F1 4' of tack board (optional)	101100
resinous flooring,	096723	Fire Suppression:	
polished concrete finishing, or	033510	Fire suppression system	211000
colored concrete finishing	033519	Plumbing:	
Base:		N/A	
Resilient base	096500	HVAC:	
Ceiling:		Supply/return air system	Div. 23
Suspended, acoustical	095113	Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
Walls:		Electrical:	
Painted concrete masonry units	042000/099100	Single level switching	262726
LOOSE FURNISHINGS:		Fluorescent lighting	265100
L1 Desk and chair		Illumination level: See Table 8600-6	
L2 Visitor chair		4 duplex receptacles	262726
L3 File cabinets		Double duplex receptacle adjacent to data and modem port	262726
L4 Computer desk return		Communications:	
Wastebasket		T1 Modem port for temperature controls computer	271523
		T2 1 voice port and phone	271513/ 273123
		T3 1 data port near workstation	271513
		Central sound system	275123
		Clock	275313
		Electronic Safety and Security:	
		Life safety devices per code	283111
		Miscellaneous:	
		Interior window (optional)	081113/088000

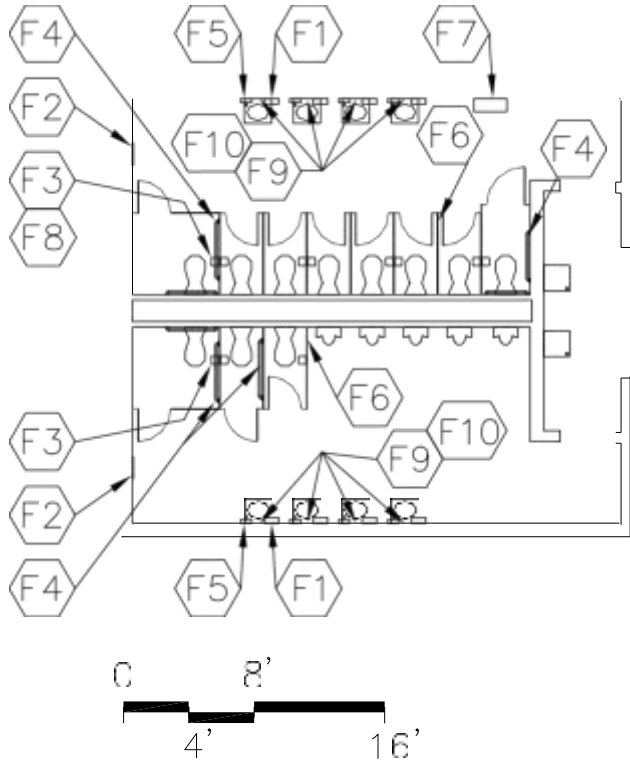
NOTES:

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

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

CHAPTER 6: HIGH SCHOOL

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



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

PROGRAM ACTIVITIES

- Personal and health needs for the general public

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

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

CHAPTER 6: HIGH SCHOOL

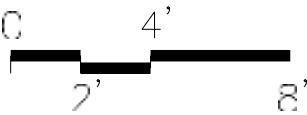
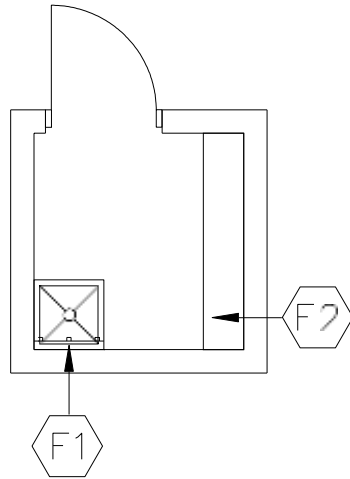
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Ceramic mosaic tile	093000	F1 Towel dispensers	102813
Optional: porcelain tile, rubber, resinous flooring, or unbacked sheet vinyl	093000 096723 096500 with	F2 24" x 60" mirror	102813
welded seams		F3 Toilet tissue holders	102813
		F4 36" and 42" grab bar	102813
		F5 Soap dispensers	102813
		F6 Toilet partitions	102113
<u>Base:</u>		F7 Sanitary product dispenser	102813
Ceramic mosaic tile base	093000	F8 Sanitary product receptacles	102813
Optional: structural glazed tile, porcelain tile base, resinous flooring, or integral vinyl base	096616 093000 096723 096500	F9 16" x 24" mirrors with shelf (optional)	102813
		F10 Shelves (optional)	123550
		<u>Fire Suppression:</u>	
<u>Ceiling:</u>		Fire suppression system	211000
Suspended, acoustical	095113	<u>Plumbing:</u>	
Option: Abuse resistant gypsum wallboard	092116	Wall-mounted water closets	224000
		Wall-mounted urinals	224000
<u>Walls:</u>		Wall-mounted lavatories or wash fountains	224000
Painted concrete masonry unit	042000/099100	Wall hydrants	224000
		Plumbing connections	224000/221116/221119
<u>LOOSE FURNISHINGS:</u>		Floor drains	Div. 22
Waste Receptacles		Drinking water cooler	224000
		<u>HVAC:</u>	
		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		1 duplex receptacle	262726
		Emergency lighting	265100
		<u>Communications:</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

**CUSTODIAL CLOSET
H-BS-2**

CHAPTER 6: HIGH SCHOOL



PROGRAM ACTIVITIES:

- Space for storage of custodial supplies throughout the building

SPATIAL RELATIONSHIPS:

- Near large group restrooms

ENVIRONMENTAL CONSIDERATIONS:

CAPACITY:
SIZE:

N/A
50 SF

NOTES:

**CUSTODIAL CLOSET
H-BS-2**

CHAPTER 6: HIGH SCHOOL

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

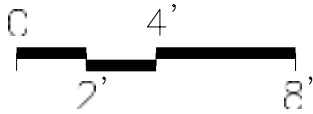
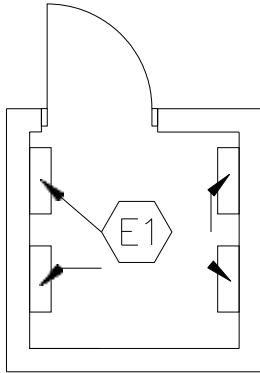
NOTES:

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

**ELECTRICAL CLOSET
H-BS-3**

CHAPTER 6: HIGH SCHOOL

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



PROGRAM ACTIVITIES:

- Space for electrical wiring and panels

SPATIAL RELATIONSHIPS:

N/A

ENVIRONMENTAL CONSIDERATIONS:

N/A

**CAPACITY:
SIZE:**

N/A
50 SF

NOTES:

**ELECTRICAL CLOSET
H-BS-3**

CHAPTER 6: HIGH SCHOOL

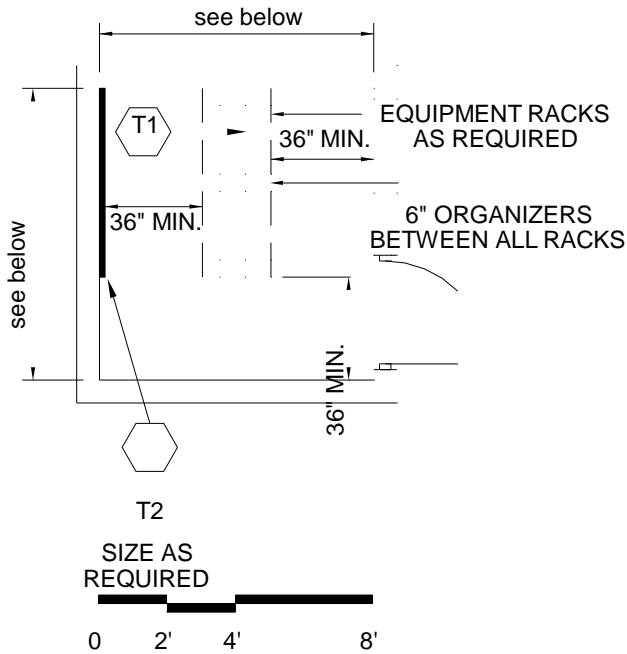
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring: Sealed concrete	033000	<u>Fixed Items:</u> N/A	
Base: No base		<u>Fire Suppression:</u> Fire suppression system	211000
Ceiling: Exposed structure	---	<u>Plumbing:</u> N/A	
Walls: Unpainted concrete masonry units	042000	<u>HVAC:</u>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

NOTES:

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

**TELECOMMUNICATIONS ROOM
H-BS-4**

CHAPTER 6: HIGH SCHOOL



PROGRAM ACTIVITIES:

- Space for technology needs

SPATIAL RELATIONSHIPS:

N/A

ENVIRONMENTAL CONSIDERATIONS:

CAPACITY:

N/A

SIZE:

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

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

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

NOTES:

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

3. Multiple TR's may be required.

**TELECOMMUNICATIONS ROOM
H-BS-4**

CHAPTER 6: HIGH SCHOOL

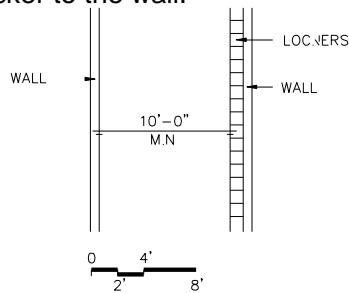
	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<u>Fixed Items:</u>	
Sealed concrete,	033000	N/A	
polished concrete finishing, or	033510		
colored concrete finishing	033519	<u>Fire Suppression:</u>	
Base:		Fire suppression system	211000
No base		<u>Plumbing:</u>	
Ceiling:		N/A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

NOTES:

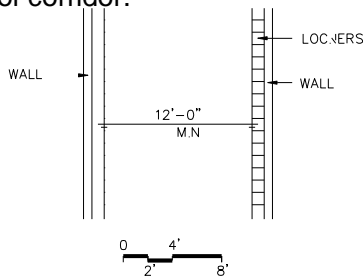
1. Finishes/Features: Refer to Chapter 9 for specification references.

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:

VESTIBULES

- Area of vestibules to be included within area allotted for corridors.
- Width of vestibules can be no less than minimum width of adjacent corridor.
- Minimum corridor length to be 8'-0" between doors.
- Vestibules are to be provided at major entrances/exits and may be eliminated at minor entrances/exits as determined by the Design Professional.
- Provide automatic door operator on one leaf of main entrance/exit door and related vestibule door.
- Provide a five-step or fifteen foot walk off mat extending from main outside entry doors into the building and as wide as the entry doors.
- Option – entrance floor grilles.
See Chapter 9, Section 124816.
- **Lockers are not part of the construction factor, but are a part of the circulation/corridor factor.**

NOTES:

**CORRIDORS
H-BS-5**
CHAPTER 6: HIGH SCHOOL

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
<u>Flooring²:</u>		<u>Fixed Items:</u>	
Linoleum, ET, sheet vinyl,	096516	Corridor lockers	105113
Carpet, carpet tile, rubber,	096500	Fire extinguishers and cabinets	104400
polished concrete finishing,	096816	Recessed vinyl floor mats or	
or colored concrete finishing	096813	surface mats	124813
	033510	Tack board or tackable wall surface	101100
	033519		
Base:		<u>Fire Suppression:</u>	
Resilient base	096500	N/A	
Optional: structural glazed tile	042000		
Ceiling:		<u>Plumbing:</u>	
Suspended, acoustical	095113	Drinking water coolers	224000
Option in vestibules: Abuse resistant			
gypsum wallboard	092116	<u>HVAC:</u>	
Walls:		Supply/return air system	Div. 23
Painted concrete masonry units		Temperature control from	
	042000/099100	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 8600-6	
		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	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	

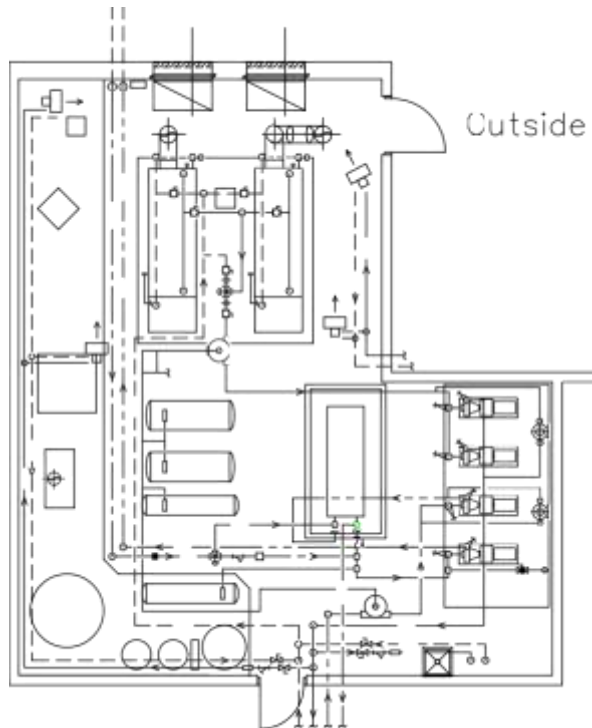
NOTES:

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:

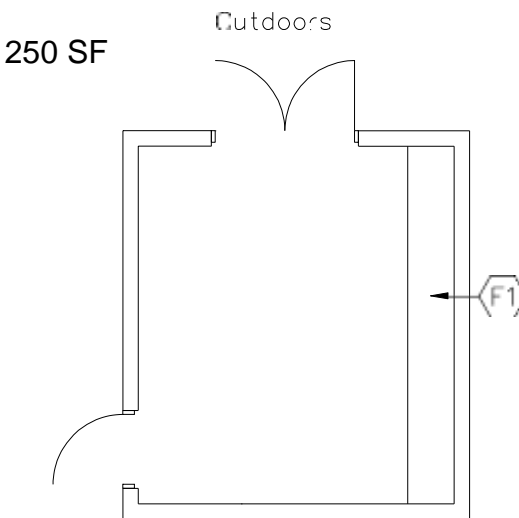
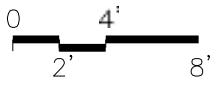
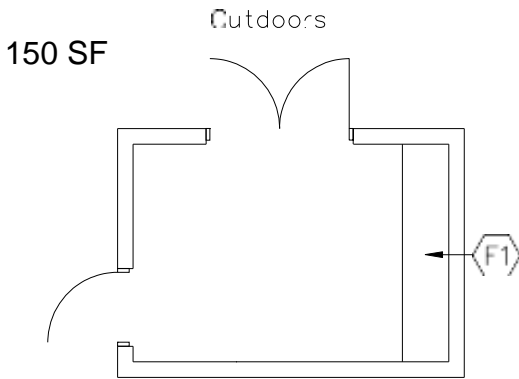
- Environmental sound control –
 wall minimum STC 60
 ceiling minimum CAC 35, NRC 0.70

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.

**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>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring: Sealed concrete	033000	<u>Fixed Items²:</u> F1 8'-20' of open shelving , depths may vary (fixed or loose)	123550
Base: No base		<u>Fire Suppression:</u> Fire suppression system	211000
Ceiling: Exposed structure	---	<u>Plumbing:</u> N/A	
Walls: Unpainted concrete masonry units	042000	<u>HVAC:</u> Exhaust air system Supplemental heat as required	Div. 23 Div. 23
<u>LOOSE FURNISHINGS</u> N/A		<u>Electrical:</u> Single level switching Fluorescent lighting Illumination level: See Table 8600-6 Duplex receptacles	262726 265100 262726
		<u>Communications:</u> N/A	
		<u>Electronic Safety and Security:</u> Life safety devices per code	283111
		<u>Miscellaneous:</u> N/A	

NOTES:

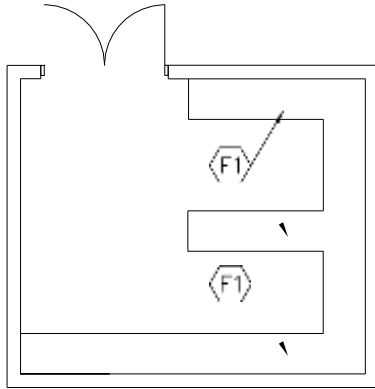
1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Ranges shown indicate quantities for the smallest and largest possible room size.

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

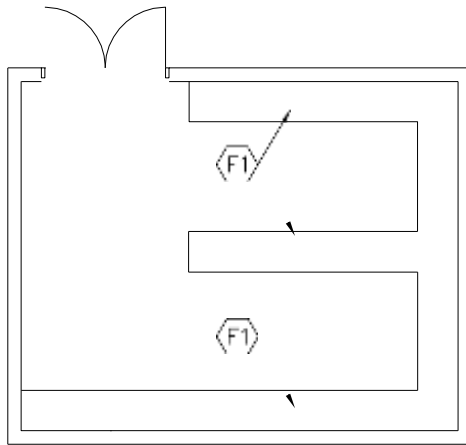
CHAPTER 6: HIGH SCHOOL

Space to be determined by Design Professional.

250 SF



400 SF



CAPACITY:
SIZE:

N/A
250 - 800 SF

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

NOTES:

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

CHAPTER 6: HIGH SCHOOL

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

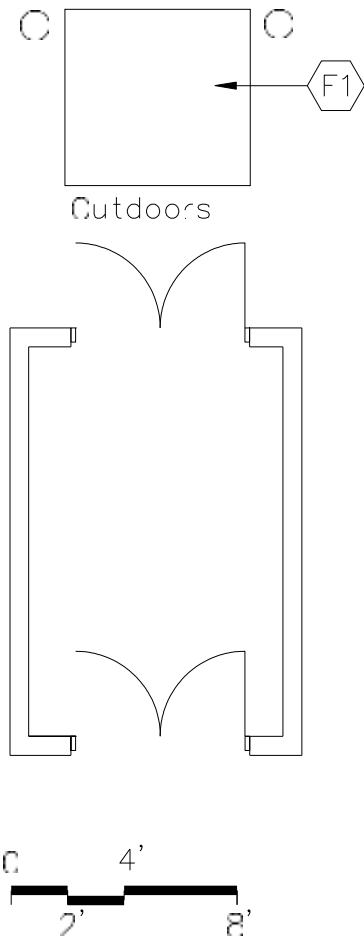
NOTES:

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

**LOADING/RECEIVING AREA
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:

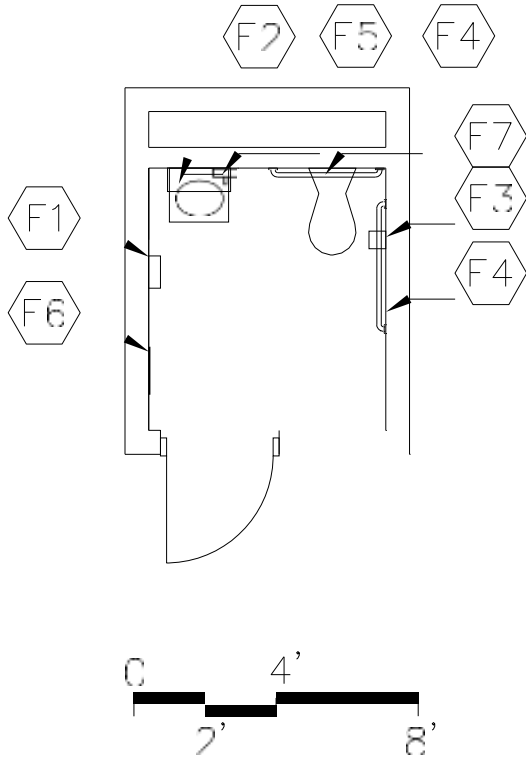
**LOADING/RECEIVING AREA
H-BS-9**

CHAPTER 6: HIGH SCHOOL

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

NOTES:

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



PROGRAM ACTIVITIES:

- Personal and health needs for the building occupants

SPATIAL RELATIONSHIPS:

- Near academic area

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY: 1 person
 SIZE: 60 SF
 ANCILLARY SPACES:

NOTES:

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

**RESTROOM
H-BS-10**

CHAPTER 6: HIGH SCHOOL

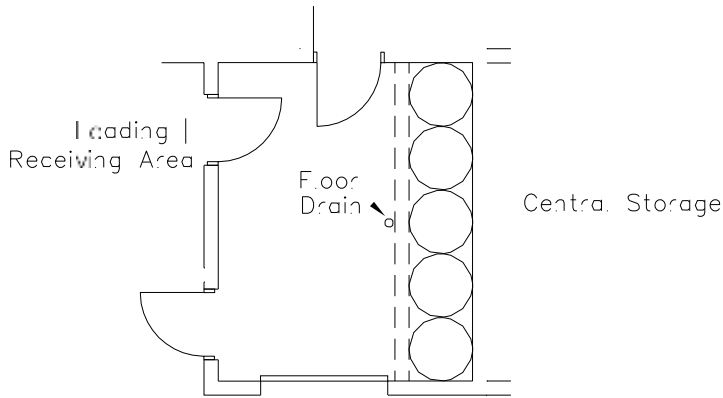
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
ET, or sheet vinyl	096500	F1 Towel dispenser	102813
Optional: quarry tile, or resinous flooring	093000 096723	F2 Mirror with shelf above sink(optional)	102813
<u>Base:</u>		F3 Toilet tissue holder	102813
Resilient base	096500	F4 36" and 42" grab bar	102813
Optional: quarry tile, resinous flooring, or integral vinyl cove base	093000 096723	F5 Soap dispenser	102813
<u>Ceiling:</u>		F6 Sanitary product dispenser	102813
Suspended, acoustical	095113	F7 Sanitary product receptacle	102813
<u>Walls:</u>		<u>Fire Suppression:</u>	
Painted concrete masonry units	042000/099100	Fire suppression system	211000
		<u>Plumbing:</u>	
		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 8600-5	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

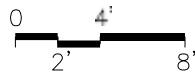
1. Finishes/Features: Refer to Chapter 9 for specification references.
2. F6 and F7 required for female restroom only.

**RECYCLING ROOM
H-BS-11**

CHAPTER 6: HIGH SCHOOL



LOADING DOCK
Direct access to loading dock, if possible



CAPACITY: N/A
SIZE: 80 - 160 SF

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:
N/A

MISCELLANEOUS:

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

NOTES:

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

**RECYCLING ROOM
H-BS-11**

CHAPTER 6: HIGH SCHOOL

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

NOTES:

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