

OHIO SCHOOL DESIGN MANUAL

Ohio School Facilities Commission

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PURPOSE	The purpose of this Chapter is to provide the Vocational School District and the Design Professional with the requirements and relationships for the Career-Technical School spaces identified in Chapter 2: Bracketing.
INTRODUCTION	<p>This Chapter begins with an overall building diagram showing how the various areas of a Career-Technical 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	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. <i>Storage rooms shall not be required to be exhausted if there is no objectionable transfer (odors or hazardous gas) to adjacent spaces.</i>
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.
AREA	Square foot area given for the room is the required area. This area is given in net square feet – defined as the area within the walls of the room.
LOOSE EQUIPMENT	Loose equipment, although shown in some space plates, is not generally purchased through the classroom facilities assistance program (CFAP). This is the responsibility of the Career-Technical 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.

FIXED EQUIPMENT

Fixed equipment which is defined as being attached to and therefore becoming a part of the building structure and having a useful life of greater than five years is provided by CFAP.

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.

OPTIONS

1. Some finishes and features have options noted on the space plates. Linoleum (spec.section 096516) or rubber sheet flooring is an option to resilient flooring or carpet. Steel stud and abuse-resistant wallboard partition is an option to concrete masonry between classrooms, labs, and other academic spaces.
2. The science lab layouts shown do not restrict or reflect the variety of arrangements available to the Design Professional.

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, astronomical time clock, or temperature control system to comply with ASHRAE 90.1. to automatically turn lighting off when sufficient daylight is available. Interior and exterior lighting allowable power densities shall be in compliance with ASHRAE 90.1.

ELECTRICAL

A room safety push-button (kill) switch capable of de-energizing room electrical power shall be provided in rooms where machines, tools, apparatus, etc. could cause physical harm to student. Button shall be connected to electrical circuits, panelboards, bus duct, etc. that serves such tools, apparatus, etc.

DESIGN CONSIDERATIONS

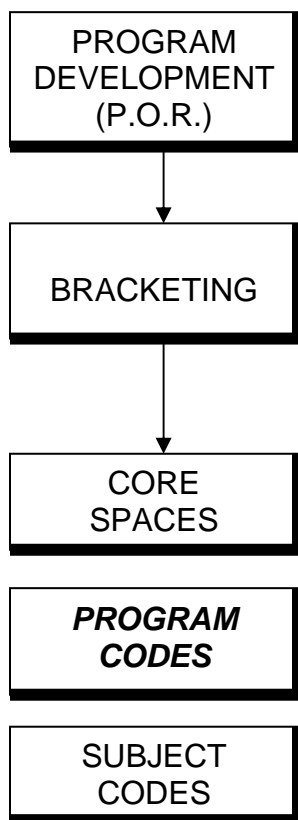
In order to accommodate school districts in meeting the unique requirements of it's Career-Technical students, the OSFC has provided spaces that accommodate instructional and support activities. The layout and organization of those spaces is critical to the educational success of the school. Therefore, during the planning and design of the career technical school, the district and design team should take into consideration some of the following factors.

Educational

- Current and future trends in Career-Technical Educational programs and services
- Ohio Department of Education Career-Technical Pathways
- Current and future programs being provided by the school district
- Type and number of students in each career pathway and program type
- It is important for the design team to understand how students receive career-technical and academic instruction. Some students attend their regular high school in the morning and come to a career-technical school in the afternoon. Others may stay at the career-technical school all day.

Layout and Organization

- Based on the programs provided by the district, select the laboratory spaces, related and support spaces needed to adequately deliver the curriculum
- Related spaces such as classrooms, storage, restrooms, and reference rooms should be arranged to allow for use by multiple programs. For example, CT Program Types 4-7 commonly share classrooms. Flexibility and adaptability should be considered during the planning and design phases.
- Consider current and future program changes and how instructional and support spaces can be designed to accommodate change. Look for commonalities in spaces that would allow multiple use of spaces.
- Consider providing Extended Learning Areas for use by individuals and small groups
- Consider providing common student gathering areas
- Movement of students, staff, supplies, and maintenance personnel is a primary consideration.
- Encourage members of the district and design team to research how new career-technical schools throughout the country are being designed



Determined previous to this chapter between school district and design professional. Building program can be core spaces, Career-Technical subject codes, or a combination of both.

Determined in Volume One, Chapter 2 of the Design Manual.

Once building program is determined, Chapter 6 can be utilized to develop individual spaces. Core spaces are located at the beginning of Chapter 6. These spaces include Academic Core, Special Education/Student Service, Administrative, Media Center, Student Dining, Food Service, Custodial, General Service, and Building Service spaces.

The remainder of Chapter 6 describes the seven Program Types in which all ODE recognized subject codes are placed.

Once the architect knows which Subject Code or CTE Program Code will be in the building program, these codes can be found in the index. An index of all Subject Codes, Program Type, CTE Program Code, and Program Name follows these instructions. As an example, the program name, "Cosmetology", is in Program Type 4. Turning to the appropriate tab, one will find a general description, a program example, lab example, lab descriptions, and plates for all support spaces.

Since a program consists of a lab, possible program specific rooms, and typical support space, the design professional must review the entire Program Type section. Lab descriptions are in alphabetical order and follow the Lab example plate. These summaries describe the contents and systems needed for each specific lab (and only the lab). Following these lab summaries are plates and descriptions for the remaining support spaces.

Certain Program Types (3, 4, 6, and 7) require the addition of program specific spaces. These are rooms needed in addition to the lab and typical support spaces. The descriptions of these spaces can be found directly after the summary of a particular lab.

With sizes and descriptions of all spaces within a particular subject code known, the design professional can proceed with the design of the subject code. Graphic plates of the labs are not provided due to the wide variety of teaching philosophies throughout the Career-Technical system within the State of Ohio. Each design professional is permitted to locate all listed items and equipment at their discretion after consultation with the school district.

The following tables, which are sorted by program name and number, relate the unique subject code for each specialized program and the Program Type space that would be most appropriate for that curriculum delivery. The page numbers locate the program space descriptions in this Design Manual Career-Technical Section.

INDEX BY PROGRAM NAME

CHAPTER 6: CAREER-TECHNICAL SCHOOL

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14.0300	1	C0	Administrative and Professional Support	6311-8
01.0301	5	A0	Agribusiness and Production	6315-8
	7	TA	Air Transportation	6317-7
17.0401	7	T0	Aircraft Maintenance	6317-7
	2	JM	Allied Health and Nursing	6312-16
01.0901	7	A2	Animal Science and Management (Equine)	6317-11
01.0901	4	A2	Animal Science and Management (small animal)	6314-7
17.0301	6	T1	Auto Collision Repair	6316-10
17.0303	5	T2	Auto Specialization	6315-9
17.0302	6	T3	Auto Technology	6316-12
17.0370	1	R0	Automation and Robotics	6311-9
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	2	F0	Biomedical Science	6312-7
01.2000	2	A3	Biotechnology for Food, Plant & Animal Sciences	6312-8
17.1004	5	D0	Brick, Block and Cement Masonry	6315-10
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17.2810	4	P0	Career Paths for the Law Profession	6314-14
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	6	DF	Construction Design and Management	6316-21
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17.2802	4	P1	Criminal Justice	6314-14
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33.0005	4	L0	Culinary and Food Service Operations	6314-26
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07.0101	4	J3	Dental Assistant	6314-29
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07.4820	4	J5	Diagnostic Pathway	6314-32
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17.2811	2	P3	Emergency Medical Technician - Secondary	6312-12
17.1600	2	F1	Energy Science	6312-7
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04.4110	3	S1	Entrepreneurship	6313-15
17.0100	5	D8	Environmental Control Technologies	6315-14
07.0410	2	J6	Exercise Science and Sports Medicine	6312-13
14.0110	1	G1	Financial Services	6311-12
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	4	P6	Firefighting and Emergency Medical Services	6314-34
01.1001	6	A4	Food Science and Technology	6316-23
17.0403	3	T5	Ground Operations	6313-19

SUBJECT CODE	PROGRAM TYPE	CTE PROGRAM CODE	PROGRAM	PAGE NUMBER
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07.4840	2	J8	Health Support Pathway	6312-14
07.0913	2	J9	Health Unit Coordinator	6312-15
17.1003	5	D9	<i>Heavy Equipment Operations</i>	6315-15
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17.1012	5	R2	Integrated Systems Technology	6315-15
14.0240	1	N1	Interactive Media	6311-16
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14.0320	1	C3	Medical Management and Support	6311-13
17.1200	6	T7	Medium/Heavy Truck Technician	6316-29
01.0701	5	A6	Natural Resource Management	6315-19
14.0220	1	N2	Network Systems	6311-16
07.0303	4	JD	Nurse Assisting	6314-17
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07.0994	4	JF	Patient Care Technician	6314-41
34.0020	4	B1	Performing Arts	6314-44
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07.0305	4	JK	Surgical Technology	6314-46
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17.3601	6	DC	Wood Product Technologies	6316-36

** Subject Codes as Program Identifiers are being phased out. New programs are no longer associated with a Subject Code.

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01.0301	5	A0	Agribusiness and Production	6315-8
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01.0901	4	A2	Animal Science and Management (small animal)	6314-7
01.2000	2	A3	Biotechnology for Food, Plant & Animal Sciences	6312-8
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14.0310	1	C2	Legal Management and Support	6311-8
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17.1017	5	D2	Building Technology	6315-11
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07.0410	2	J6	Exercise Science and Sports Medicine	6312-13
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07.0603	4	JE	Optometric Occupations	6314-39
07.0994	4	JF	Patient Care Technician	6314-41
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07.0302	2	JJ	Practical Nursing	6312-16
07.0305	4	JK	Surgical Technology	6314-46
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14.0210	1	N0	Information Support & Services	6311-16
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33.0005	4	L0	Culinary and Food Service Operations	6314-26
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01.0701	5	A6	Natural Resource Management	6315-19
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** Subject Codes as Program Identifiers are being phased out. New programs are no longer associated with a Subject Code.

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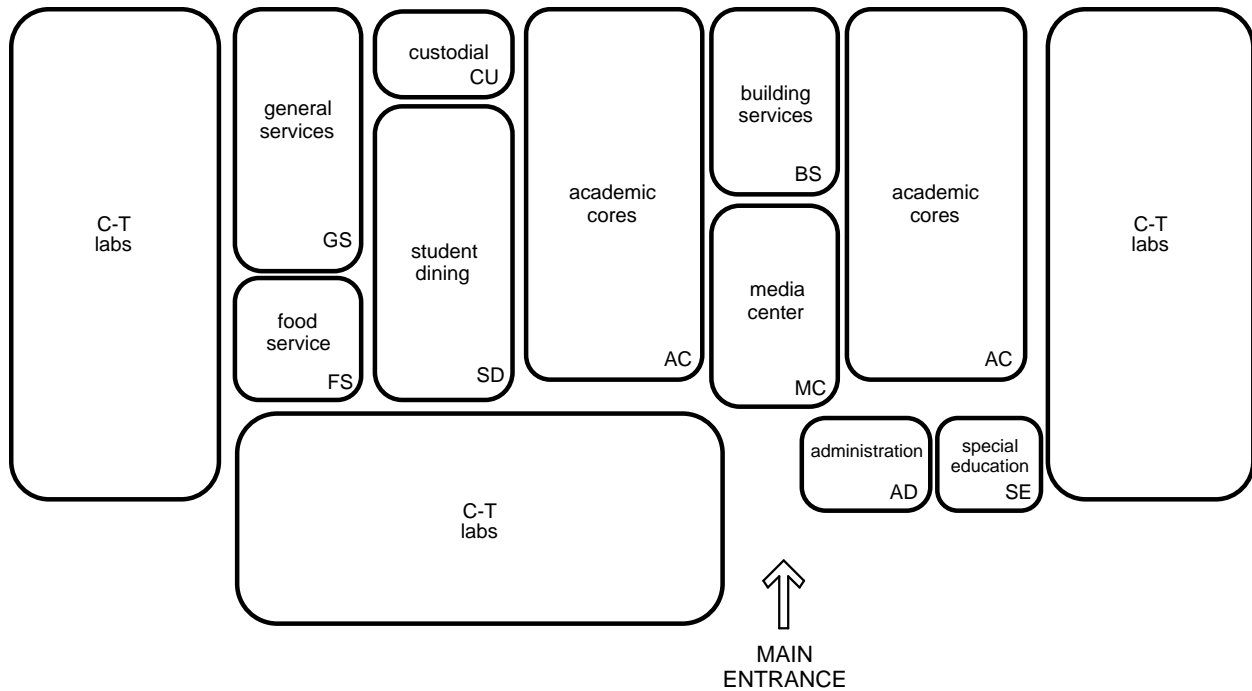
CHAPTER 6: CAREER-TECHNICAL SCHOOL

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NOTES:

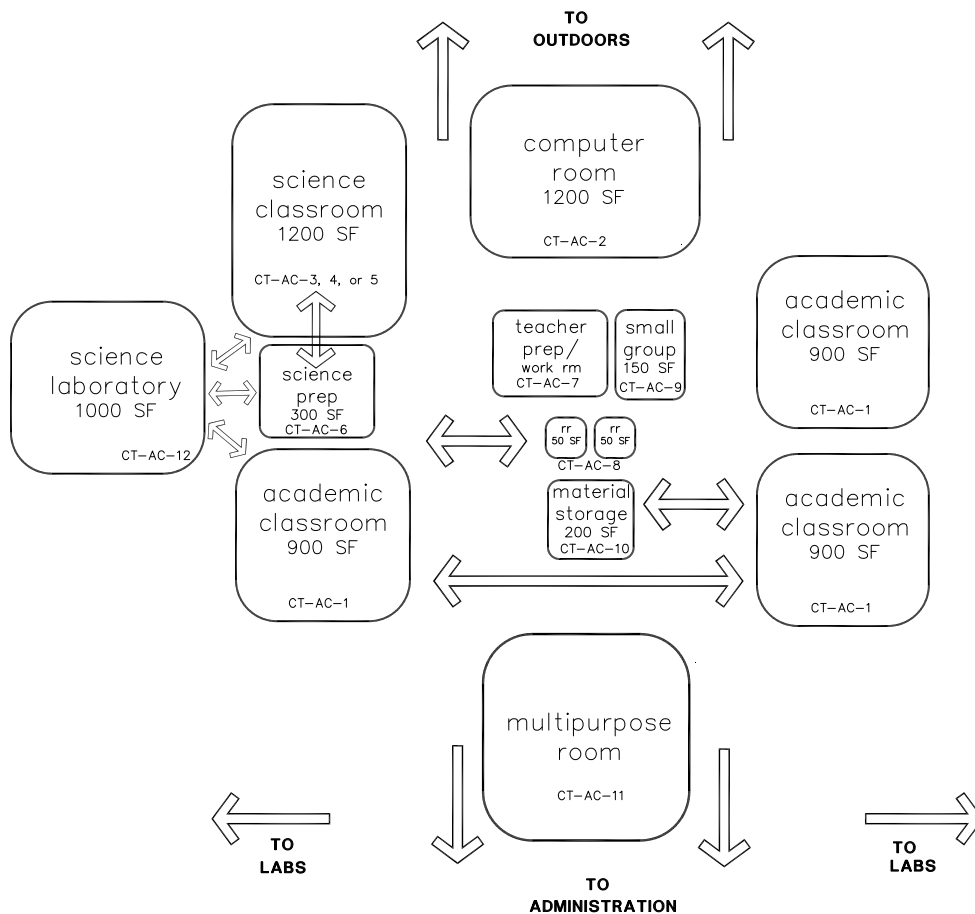
This is an example of how the spaces in a career-technical school could be arranged. This is meant only to demonstrate the relationships between various spaces of this area.

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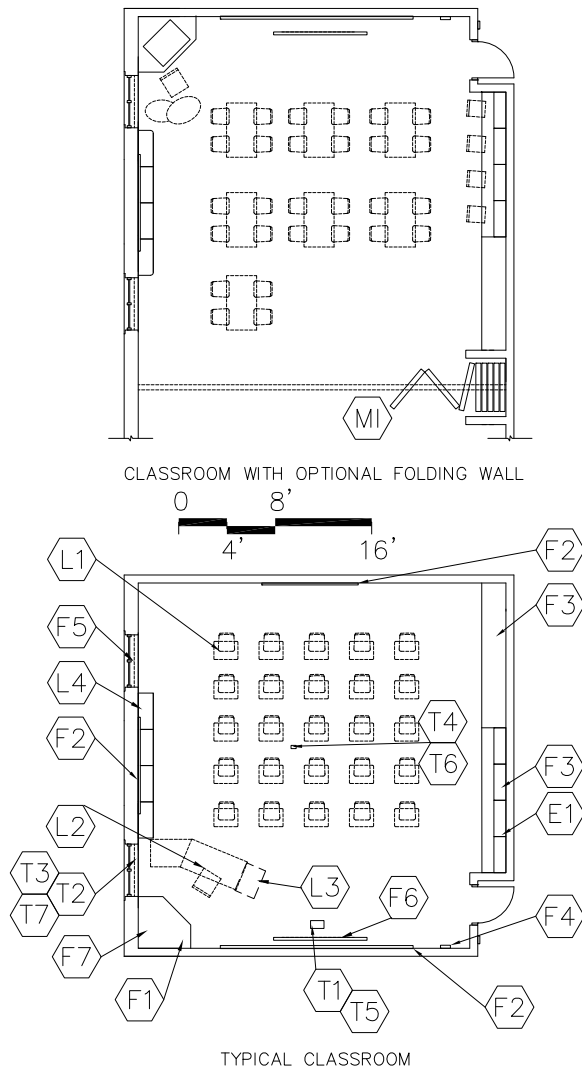
**NOTE:**

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

Following are the Academic core space:

- CT-AC-1 Academic Classroom
- CT-AC-2 Computer Room
- CT-AC-3 General Science / Physics
- CT-AC-4 Biology
- CT-AC-5 Chemistry
- CT-AC-6 Science Prep
- CT-AC-7 Teacher Prep / Workroom
- CT-AC-8 Individual Restroom
- CT-AC-9 Small Group Room
- CT-AC-10 Material Storage
- CT-AC-11 Multipurpose Room
- CT-AC-12 Science Laboratory**

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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.

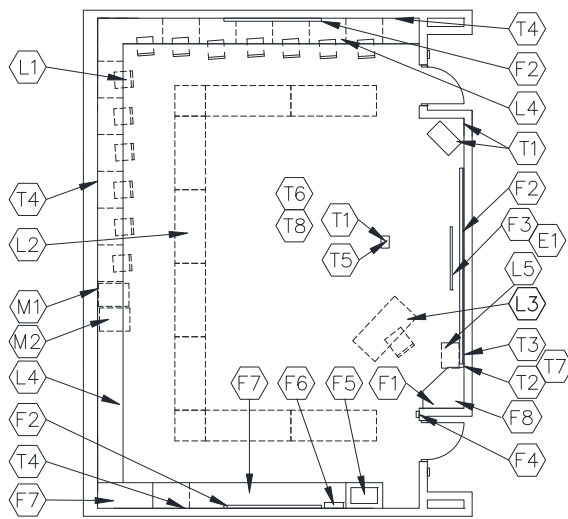
**ACADEMIC CLASSROOM
CT-AC-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

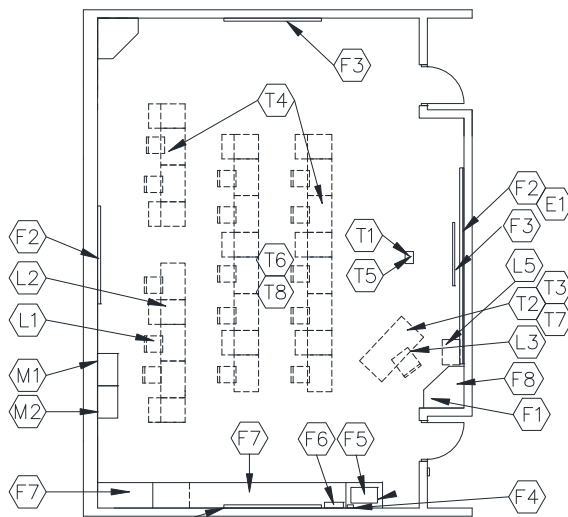
	Spec. Ref.#		Spec. Ref.#
FINISHES¹:		FEATURES¹:	
Flooring:		Fixed Items:	
Carpet, carpet tile	096816	F1 Tall wardrobe with file drawers	123550
Optional: ET, sheet vinyl, linoleum, or rubber	096516 096500 096813	F2 20'-32' combination marker board, tack board and tackable wall surface	101100
Base:		F3 18'-24' combination base and wall cabinets	123550
Resilient base	096500	F4 Pencil sharpener support (optional)	062000
Ceiling:		F5 Windows with integral blinds	085113
Suspended, acoustical	095113	F6 Projection screen (optional)	115213
Walls:		F7 Technology support casework	123550
Painted concrete masonry units	042000/099100	Fire Suppression:	
		Fire suppression system	211000
		Plumbing: N/A	
LOOSE FURNISHINGS:		HVAC:	
L1 Student desks and chairs		Supply/return air system	Div. 23
L2 Teacher desk or workstation/computer support and chair		Independent temperature control	230923
L3 File cabinet		Electrical:	
L4 9' of low bookcases (fixed or mobile) Wastebasket		Fluorescent lighting:	265100
		Illumination level: See Table 8600-5	
		Multilevel switching	262726
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		Communications:	
		T1 1 projector video port	271543
		T2 1 voice port and phone	271513/273123
		T3 1 data port near teacher workstation	271513
		T4 Wireless access point cable above ceiling	271513
		Clock	275313
		Central sound system	275123
		Sound reinforcement system	275127
		T5 Ultra-short throw interactive projector	274119
		T6 Wireless access point (WAP) as determined by design – refer to Note 4	272133
		T7 Classroom technology center videoport 271543, 274116, 274119, 275127	
Electronic Safety and Security:			
Life safety devices per code	283111		
Miscellaneous:			
Pencil sharpener (optional)			
M1 Operable partitions between classrooms are optional	102226		
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. Where appropriate, some casework may be mobile to add flexibility and become part of the loose furnishings.
4. **Baseline includes WAP cable per classroom. WAP device quantity/placement per 272133 requirements.**



PERIMETER WORKSTATION LAYOUT



FREE-STANDING WORKSTATIONS

CAPACITY:
SIZE:

25 students
1,100 SF

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

- 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.

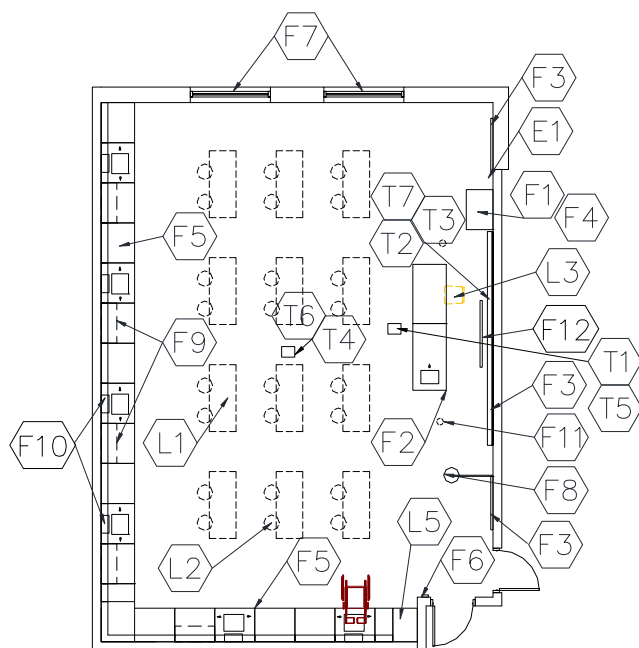
**COMPUTER ROOM
CT-AC-2**

CHAPTER 6: CAREER-TECHNICAL 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	F2 16'-32' combination marker board		101100
		096516	tack board & tackable wall surface		
		096813	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>Walls:</u>			<u>Fire Suppression:</u>		
Paint		099100	Fire suppression system		211000
			<u>Plumbing:</u>		
<u>LOOSE FURNISHINGS:</u>			N/A		
L1	Student chairs		<u>HVAC:</u>		
L2	Work tables		Supply/return air system		Div. 23
L3	Teacher desk or workstation/computer support and chair		Independent temperature control		230923
L4	Computer workstation furniture		<u>Electrical:</u>		
L5	File cabinet		Fluorescent lighting:		
	Wastebasket		computer aided lenses		265100
			Illumination level: See Table 8600-5		
			Multilevel switching		262726
			4 duplex receptacles		262726
			Double duplex receptacle adjacent to each data and video port		262726
			<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 Classroom area network		271513
			Clock		275313
			Central sound system		275123
			Sound reinforcement system		275127
			T5 Ultra-short throw interactive projector		274119
			T6 Wireless access point (WAP) as determined by Design – refer to Note 3		272133
			T7 Classroom technology center video port		271543, 274116, 274119, 275127
			T8 Wireless access point cable above ceiling		271513
<u>Electronic Safety and Security:</u>					
Life safety devices per code		283111			
<u>Miscellaneous:</u>					
Pencil sharpener (optional)					
The following items are to be funded by the school district:					
M1	Classroom area network file server				
M2	Printer				
E1	Duplex receptacle with dedicated circuit for wireless devices				

NOTES:

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



CAPACITY: 24 - 28 students
SIZE: 1,200 SF
ANCILLARY SPACES: Science Prep
CT-AC-6

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.

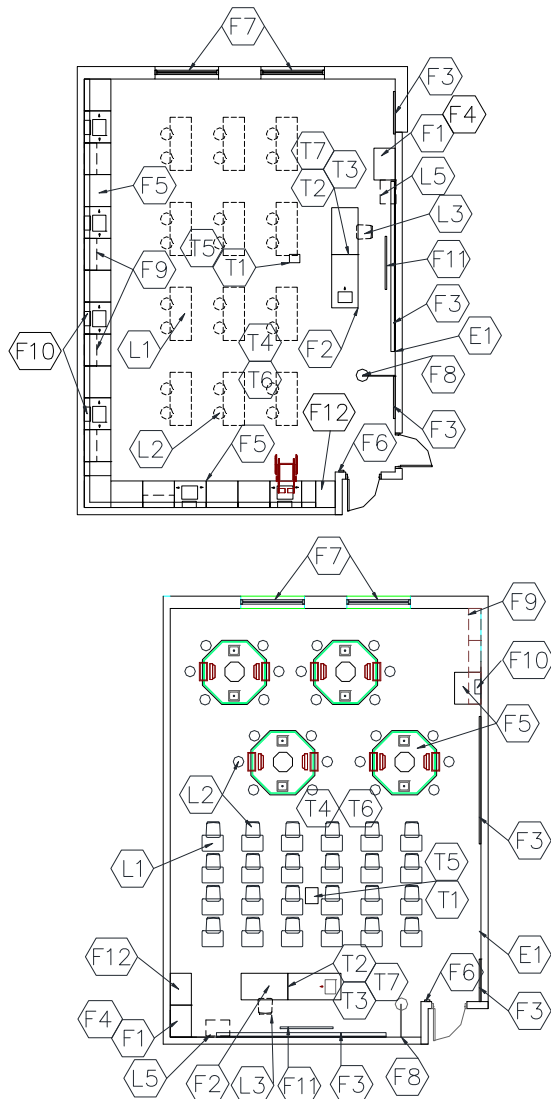
**GENERAL SCIENCE/PHYSICS
CT-AC-3**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

	Spec. Ref.#		Spec. Ref.#
FINISHES¹:		FEATURES¹:	
Flooring:		Fixed Items:	
Linoleum,	096500	F1 Tall wardrobe with file drawers	123553
rubber, ET, sheet vinyl,	096516	F2 Demonstration table/teacher desk	123553
polished concrete finishing	033510	F3 20'-32' combination marker board,	101100
or colored concrete finishing	033519	tack board and tackable wall surface	
Base:		F4 Technology support casework	123553
Resilient base	096500	F5 40'-60' of lab casework with sinks	123553
Ceiling:		F6 Pencil sharpener support (optional)	062000
Suspended, acoustical	095113	F7 Windows with integral blinds	085113
Walls:		F8 Emergency shower/eyewash	224000
Paint		F9 18'-24' of wall cabinets	123553
099100		F10 Towel dispensers (optional)	102813
		F11 2 eye hooks for demonstrations(optional)	055000
		F12 Projection screen (optional)	115213
		Fire Suppression:	
		Fire suppression system	211000
		Plumbing:	
		Plumbing connections	
		224000/221116/221119	
		Emergency shower/eyewash	
		connections	224000
LOOSE FURNISHINGS:		Gas connections (optional)	226313
L1 Student work tables		Master shutoff for gas	226313
L2 Student stools/chairs		Compressed air connections(optional)	221500
L3 Teacher chair or stool		HVAC:	
L4 Reserved		Supply/return air system	Div. 23
L5 File cabinet		Independent temperature control	230923
Wastebasket		Manual exhaust	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	
		Clock	275313
		Central sound system	275123
		Sound reinforcement system	275127
		T5 Ultra-short throw interactive projector	274119
		T6 Wireless access point (WAP) as determined	
		by design – refer to Note 4	272133
		T7 Classroom technology center videoport	
		271543, 274116, 274119, 275127	

NOTES:

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



CAPACITY: 24 - 28 students
SIZE: 1,200 SF
ANCILLARY SPACES: Science Prep
 CT-AC-6

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.

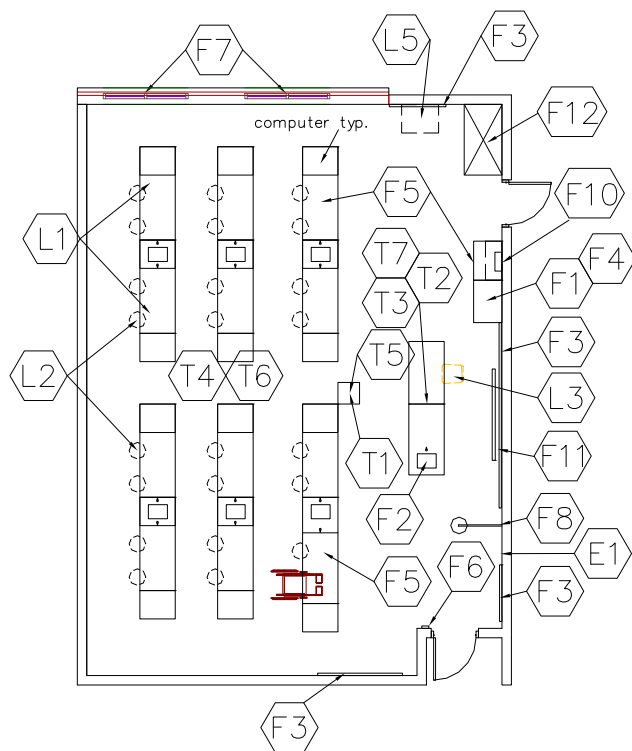
**BIOLOGY
CT-AC-4**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

		Spec. Ref.#			Spec. Ref.#
FINISHES¹:			FEATURES¹:		
Flooring:			Fixed Items:		
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		
Base:			F4 Technology support casework		123550
Resilient base		096500	F5 40'-60' of lab casework with sinks		123553
Ceiling:			F6 Pencil sharpener support (optional)		062000
Suspended, acoustical		095113	F7 Windows with integral blinds		085113
Walls:			F8 Emergency shower/eyewash		224000
Paint			F9 18'-24' of wall cabinets (total)		123553
099100			F10 Towel dispensers (optional)		102813
LOOSE FURNISHINGS:			F11 Projection screen (optional)		115213
L1 Student work tables			F12 Tall cabinets (optional)		123550
L2 Student stools/chairs			Fire Suppression:		
L3 Teacher chair or stool			Fire suppression system		211000
L4 Reserved			Plumbing:		
L5 File cabinet			Plumbing connections	224000/221116/221119	
Wastebasket			Emergency shower/eyewash		
L4 could be fixed casework.			connections		224000
Electronic Safety and Security:			Master shut-off for gas		226313
Life safety devices per code		283111	Gas connections		226313
Miscellaneous:			Compressed air connections (optional)		221500
Pencil sharpener (optional)			Acid waste piping		221316
E1 Duplex receptacle with dedicated circuit for wireless devices			Neutralization tank (optional)		221323
Communications (cont'd):			HVAC:		
T6 Wireless access point (WAP) as determined by			Supply/return air system		Div. 23
Design – refer to Note 4		272133	Independent temperature ctrl		230923
T7 Classroom technology center video port			Manual exhaust		Div. 23
271543, 274116, 274119, 275127			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
			T5 Ultra-short throw interactive projector		274119

NOTES:

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



CAPACITY: 24 - 28 students
 SIZE: 1,200 SF
 ANCILLARY SPACES: Science Prep
 CT-AC-6

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.

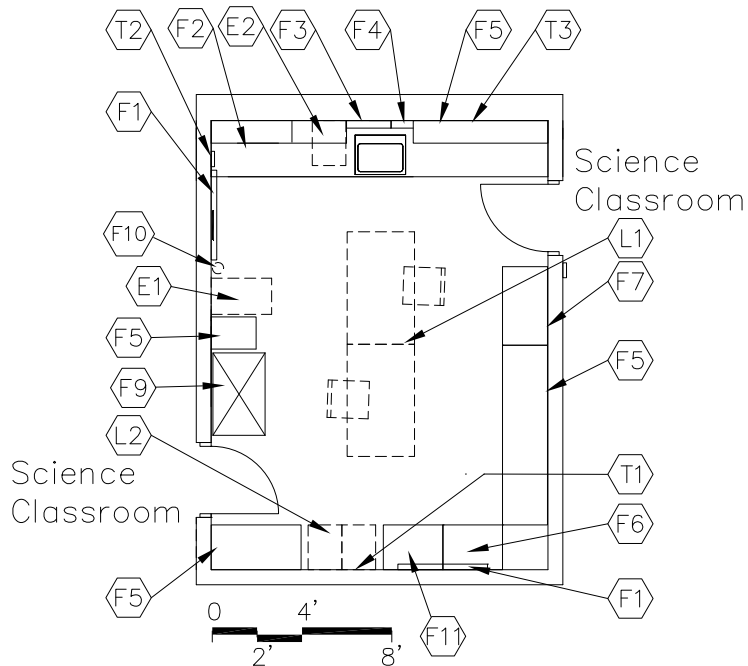
**CHEMISTRY
CT-AC-5**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

	Spec. Ref.#		
FINISHES¹:		F1	Tall wardrobe with file drawers 123553
Flooring:		F2	Demonstration table/teacher desk 123553
Vinyl sheet flooring, linoleum,	096500	F3	20'-32' combination marker 101100
rubber, ET,	096516		board, tack board and tackable wall surface
polished concrete finishing,	033510	F4	Technology support casework 123550
or colored concrete finishing	033519	F5	40'-60' lab casework with sinks 123553
		F6	Pencil sharpener support (optional) 062000
Base:		F7	Windows with integral blinds 085113
Resilient base	096500	F8	Emergency shower/eyewash 224000
		F9	18'-24' of wall cabinets (optional) 123553
Ceiling:		F10	Towel dispensers (optional) 102813
Suspended, acoustical	095113	F11	Projection screen (optional) 115213
		F12	Fume hood 115313
Walls:		F13	Tall cabinet for microscopes(optional) 123550
Painted concrete masonry units	042000/099100		
		Fire Suppression:	
			Fire suppression system 211000
LOOSE FURNISHINGS:		Plumbing:	
L1 Student work tables			Plumbing connections 224000/221116/221119
L2 Student stools/chairs			Emergency shower/eyewash connections 224000
L3 Teacher chair or stool			Master shut-off for gas 226313
L4 Computer workstation furniture			Gas connections 226313
L5 File cabinet			Compressed air connections (optional) 221500
Wastebasket			Acid waste piping 221316
			Neutralization tank 221323
		HVAC:	
			Supply/return air system Div. 23
			Independent temp control 230923
			Manual exhaust Div. 23
			Exhaust for fume hood Div. 23
L4 Could be fixed casework		Electrical:	
			Fluorescent lighting: 265100
			Illumination level: See Table 8600-5
			Multilevel switching 262726
Electronic Safety and Security:			Duplex receptacles at perimeter
Life safety devices per code	283111		workstations and teaching wall 262726
			Double duplex receptacle adjacent to
			each data and video port 262726
Miscellaneous:			Emergency lighting 265100
Pencil sharpener (optional)			Means of egress lighting per code 265100
		Communications:	
E1 Duplex receptacle with dedicated circuit for wireless devices		T1	1 projector video port 271543
		T2	1 voice port and phone 271513/273123
		T3	1 data port at demonstration table 271513
Communications (cont'd):		T4	Wireless access point above ceiling 271513
T6 Wireless access point (WAP) as determined by Design – refer to Note 4	272133		Central sound system 275123
			Clock 275313
T7 Classroom technology center video port	271543, 274116, 274119, 275127		Sound reinforcement system 275127
		T5	Ultra-short throw interactive projector 274119

NOTES:

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



CAPACITY: 1-3 Staff
 SIZE: 300 SF
 ANCILLARY SPACES: Science Classrooms
 CT-AC-3, CT-AC-4, CT-AC-5

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 only 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
CT-AC-6**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	<u>Spec. Ref.#</u>	<u>FEATURES¹:</u>	<u>Spec. Ref.#</u>
Flooring:		<u>Fixed Items:</u>	
Vinyl sheet flooring, linoleum,	096516	F1 4' of tack board	101100
rubber, ET,	096500	F2 8'-15' of lab station with sink	123553
polished concrete finishing, or	033510	F3 Drying rack with pegs (optional)	123553
colored concrete finishing	033519	F4 Towel dispenser (optional)	102813
		F5 16'-31' combination wall cabinets	123553
		and tall cabinets	
Base:		F6 Storage cabinets for acids,	
Resilient base	096500	Ventilated (optional)	123553
		F7 Storage cabinets for flammables(optional)	123553
Ceiling:		F8 Reserved	
Suspended, acoustical	095113	F9 Fume hood (optional)	123553
		F10 Emergency eyewash (if applicable)	224000
Walls:		F11 Chemical storage cabinets with acid	123553
Painted concrete masonry units	042000/099100	resistant lining	
		<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Work tables with chemical-resistant top		Plumbing connections	
L2 2 file cabinets			224000/221116/221119
Wastebasket		Acid waste system	Div. 23
		Gas connections	226313
		Compressed air connections(optional)	221500
		Access to neutralization tank	221323
<u>EQUIPMENT</u>		<u>HVAC:</u>	
E1 Refrigerator/freezer (optional)		Supply/return air system	Div. 23
E2 Dishwasher (optional)		Independent temperature control	230923
		Manual exhaust	Div. 23
		24 hour exhaust for acid storage	
		cabinet	Div. 23
Note: Eliminate 24 hour exhaust if recommended		<u>Electrical:</u>	
by cabinet manufacturer. Make room 24 hour		Single level switching	262726
exhaust if no cabinet exhaust.		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	

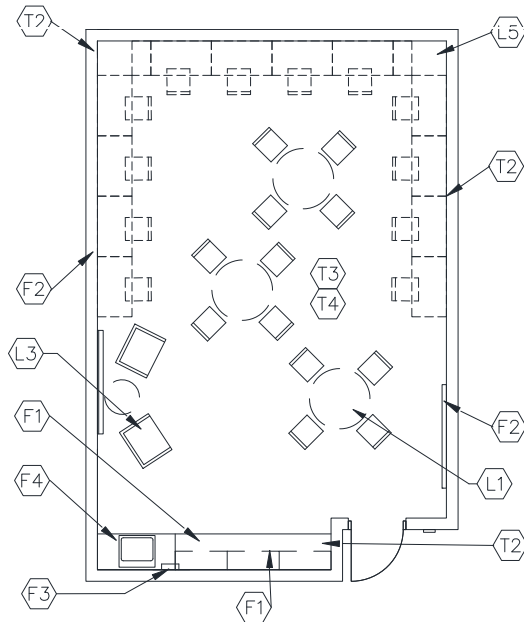
NOTES:

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

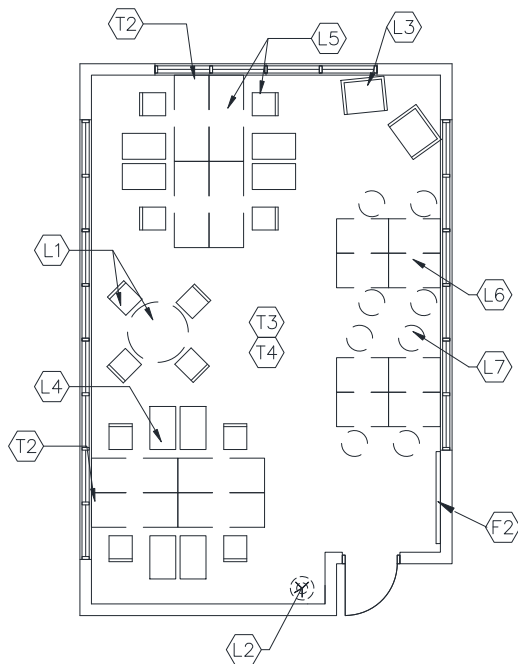
TEACHER PREP AREA/WORKROOM CT-AC-7

CHAPTER 6: CAREER-TECHNICAL SCHOOL

600 SF



600 SF



CAPACITY:
SIZE:

4-12 teachers
300 - 600 SF

NOTES:

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

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.***

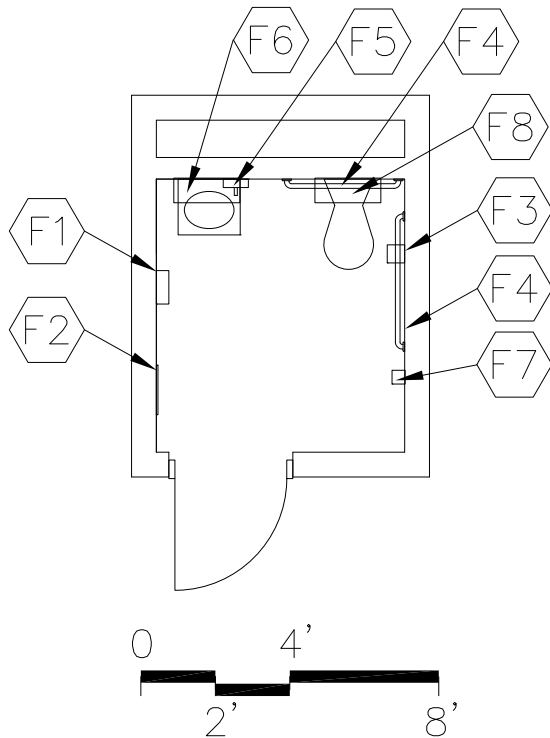
**TEACHER PREP AREA/WORKROOM
CT-AC-7**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>		Spec. Ref.#	<u>FEATURES¹:</u>		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
			F2	50-75 sf combination marker board, tack board & tackable wall surface	101100
<u>Base:</u>			F3	Towel dispenser (optional)	102813
Resilient base		096500	F4	3' sink base cabinet	123550
<u>Ceiling:</u>			<u>Fire Suppression:</u>		
Suspended, acoustical		095113		Fire suppression systems	211000
<u>Walls:</u>			<u>TEX</u>		
Paint			<u>Plumbing:</u>		
099100				Sink	224000
				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>Communications:</u>		
			T1 Reserved		
<u>Electronic Safety and Security:</u>			T2 Voice ports and phones	271513/273123	
Life safety devices per code		283111	T3 Wireless access point cable above ceiling	271513	
<u>Miscellaneous:</u>			Clock	275313	
Copier by school district			Central sound system	275123	
E1 Reserved			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.**



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:
SIZE:

1 person
60 SF

NOTES:

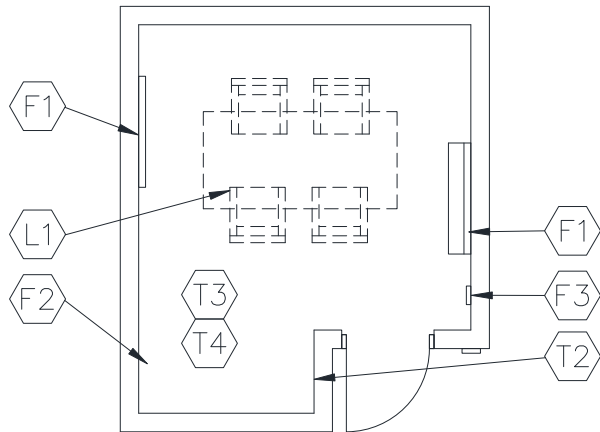
INDIVIDUAL RESTROOM
CT-AC-8

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
	Spec. Ref.#		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>Ceiling:</u>		<u>Plumbing:</u>	
Suspended, acoustical	095113	Wall-mounted water closet	224000
		Wall-mounted lavatory	224000
<u>Walls:</u>		Plumbing connections	224000/221116/221119
Painted concrete masonry units	042000/099100		
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
Wastebasket		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		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:

- 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
CT-AC-9**

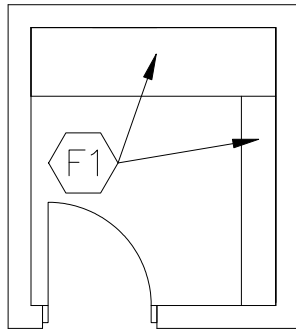
CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>		Spec. Ref.#	<u>FEATURES¹:</u>		Spec. Ref.#
<u>Flooring:</u>			<u>Fixed Items:</u>		
Carpet, carpet tile		096816	F1 8'-12' combination marker board, tack board & tackable wall surface		101100
Optional: ET, sheet vinyl, linoleum, or rubber		096500	F2 4'-6' of work surface (optional)		123550
		096516	F3 Pencil sharpener support (optional)		062000
		096813			
<u>Base:</u>			<u>Fire Suppression:</u>		
Resilient base		096500	Fire suppression system		211000
<u>Ceiling:</u>			<u>Plumbing:</u>		
Suspended, acoustical		095113	N/A		
<u>Walls:</u>			<u>HVAC:</u>		
Painted concrete masonry units		042000/099100	Supply/return air system		Div. 23
			Independent temperature control (coupled with similarly loaded adjacent spaces)		230923
<u>LOOSE FURNISHINGS:</u>			<u>Electrical:</u>		
L1 Work tables and chairs			Fluorescent lighting:		265100
L2 Reserved			Illumination level: See Table 8600-5		
Wastebasket			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>		
			Pencil sharpener (optional)		
			Interior window(optional)		081113/088000

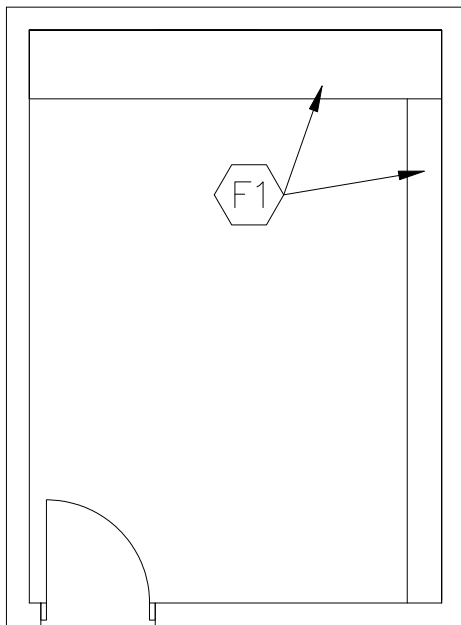
NOTES:

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

50 SF



120 SF

**PROGRAM ACTIVITIES:**

- Storage of supplies, textbooks, and equipment

SPATIAL RELATIONSHIPS:

- Near teacher prep workroom

ENVIRONMENTAL CONSIDERATIONS:

N/A

CAPACITY:**SIZE:**

N/A

50 - 120 SF

NOTES:

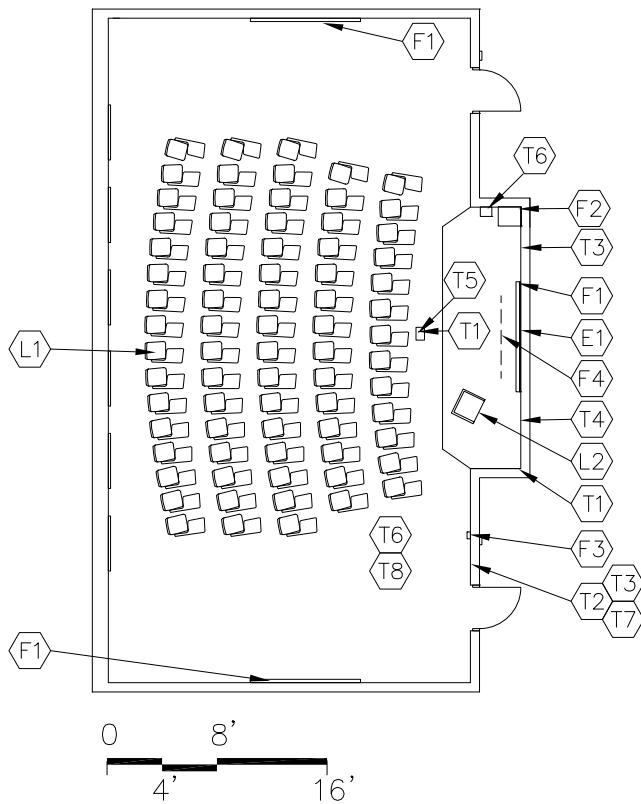
MATERIAL STORAGE
CT-AC-10

CHAPTER 6: CAREER-TECHNICAL 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: 1,200 - 1,500 SF

PROGRAM ACTIVITIES:

- Group instruction
- Presentations
- Testing
- Community use

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting
- 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.

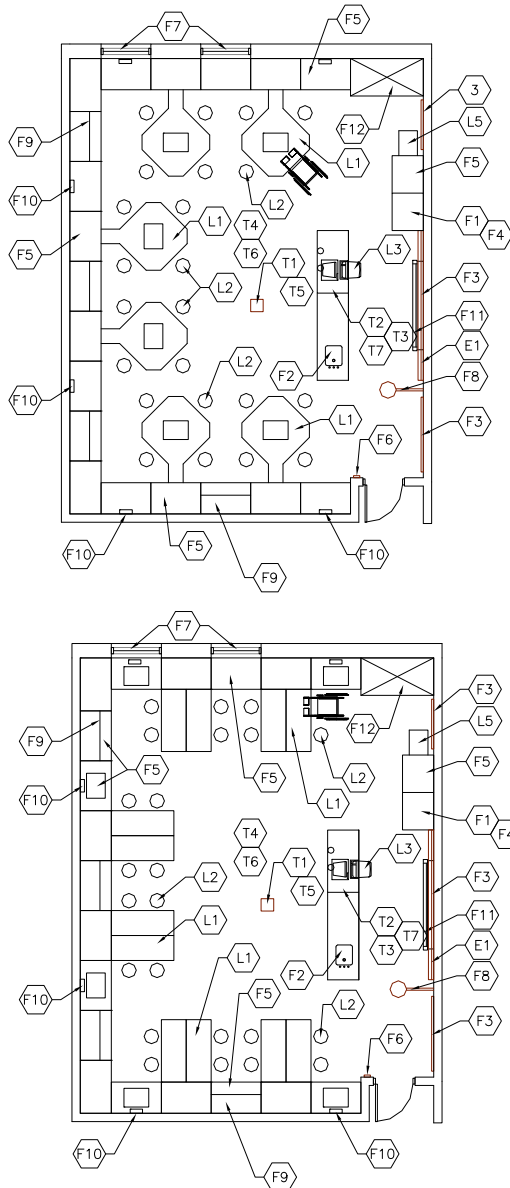
**MULTIPURPOSE ROOM
CT-AC-11**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

		Spec. Ref.#			Spec. Ref.#
<u>FINISHES¹:</u>			<u>FEATURES¹:</u>		
Flooring:			<u>Fixed Items:</u>		
Carpet, carpet tile, linoleum, rubber, ET, or sheet vinyl		096816 096813 096500 096516	F1	16'-28' combination marker board tack board & tackable wall surface	101100
			F2	Technology support casework	123550
			F3	Pencil sharpener support (optional)	062000
			F4	Projection screen (optional)	115213
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
Acoustical wall treatment		098000		Independent temperature control	230923
<u>LOOSE FURNISHINGS:</u>			<u>Electrical:</u>		
L1 Student desks and chairs				Fluorescent lighting:	265100
L2 Podium / console (optional)				Illumination level: See Table 8600-5	
Portable risers				Multilevel switching	262726
Wastebasket				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	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
<u>Electronic Safety and Security:</u>					
Life safety devices per code		283111			
<u>Miscellaneous:</u>					
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.**



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.

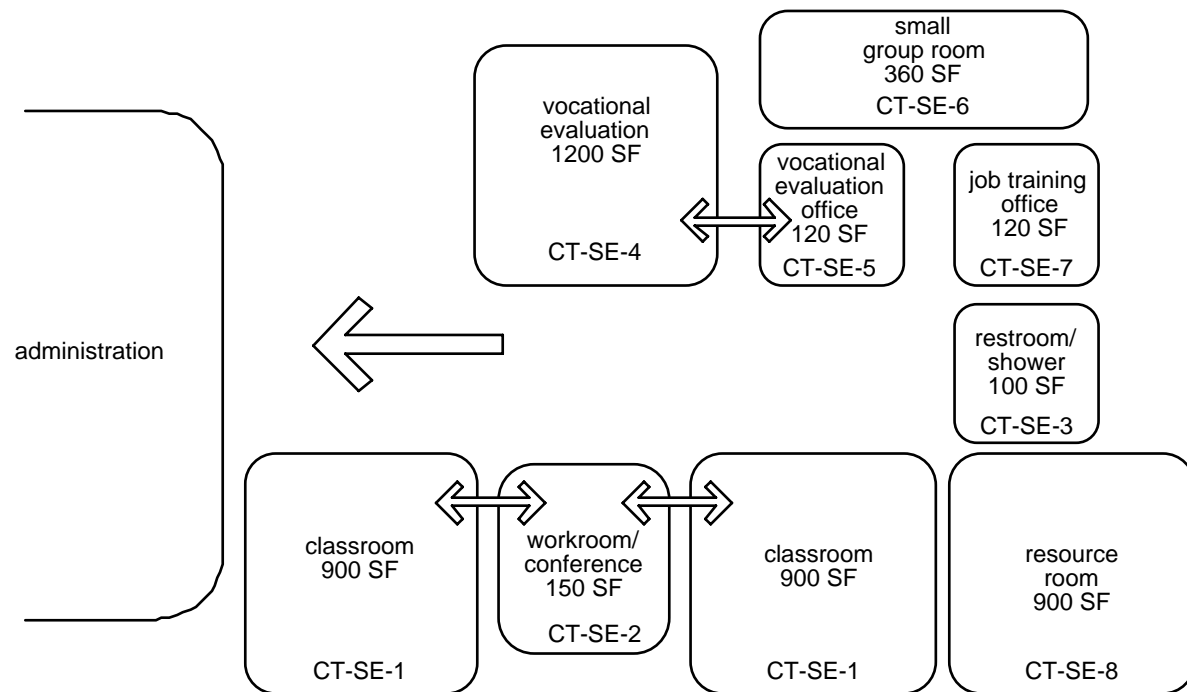
**SCIENCE LABORATORY
CT-AC-12**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	<u>Spec. Ref.#</u>	<u>FEATURES¹:</u>	<u>Spec. Ref.#</u>
Flooring:		<u>Fixed Items:</u>	
Vinyl sheet flooring, linoleum, rubber, ET	096500 096516	F1 Tall wardrobe with file drawers	123553
		F2 Demonstration table/teacher desk	123553
		F3 14'-22' combination chalk/marker board, tack board & tackable wall surface	101100
Base:		F4 Technology support casework	123550
Resilient base	096500	F5 40'-60' lab casework with sinks	123553
		F6 Pencil sharpener support (optional)	062000
Ceiling:		F7 Windows with integral blinds	085113
Suspended, acoustical	095113	F8 Emergency shower/eyewash	224000
		F9 18'-24' of wall cabinets (optional)	123553
Walls:		F10 Towel dispensers (optional)	102813
Paint	99100	F11 Projection screen (optional)	115213
		F12 Fume hood	115313
		F13 Tall cabinet for microscopes(optional)	123550
<u>LOOSE FURNISHINGS:</u>		<u>Fire Suppression:</u>	
L1 Student work tables		Fire suppression system	211000
L2 Student stools/chairs		<u>Plumbing:</u>	
L3 Teacher chair or stool		Plumbing connections	224000/221116/221119
L4 Reserved		Emergency shower/eyewash connections	224000
L5 File cabinet		Master shut-off for gas	226313
Wastebasket		Gas connections	226313
		Compressed air connections (optional)	221500
L4 Could be fixed casework		Acid waste piping	221316
		Neutralization tank	221323
		<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Independent temp control	230923
<u>Miscellaneous: (Optional)</u>		Manual exhaust	Div. 23
Pencil sharpener		Exhaust for fume hood	Div. 23
		<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>		Duplex receptacles at perimeter workstations and teaching wall	262726
Pencil sharpener (optional)		Double duplex receptacle adjacent to each data and video port	262726
E1 Duplex receptacle with dedicated circuit for wireless devices		Emergency lighting	265100
		Means of egress lighting per code	265100
<u>Communications (cont'd):</u>		<u>Communications:</u>	
T6 Wireless access point (WAP) as determined by Design – refer to Note 4	272133	T1 1 projector video port	271543
T7 Classroom technology center video port		T2 1 voice port and phone	271513/273123
271543, 274116, 274119, 275127		T3 1 data port at demonstration table	271513
		T4 Wireless access point cable above ceiling	271513
		Central sound system	275123
		Clock	275313
		Sound reinforcement system	275127
		T5 Ultra-short throw interactive projector	274119

NOTES:

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



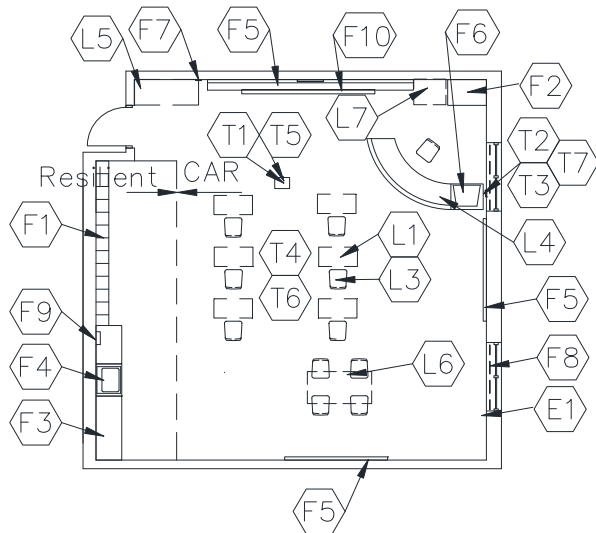
NOTES:

This is an example of how the special education/student services spaces in a career-technical 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:

- CT-SE-1 Classroom
- CT-SE-2 Workroom/Conference
- CT-SE-3 Restroom/Shower
- CT-SE-4 Career Technical Evaluation
- CT-SE-5 Career Technical Evaluation Office
- CT-SE-6 Small Group Room
- CT-SE-7 Job Training Office
- CT-SE-8 Resource Room

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

PROGRAM ACTIVITIES:

- Accommodates students who have special needs and are unable to be included in regular instructional program areas a majority of the school day.
- Activities include, but are not limited to: group and individual work to improve auditory, tactile, visual, kinesthetic and academic skills.

SPATIAL RELATIONSHIPS:

- Near academic core classrooms
- Adjacent to special education restroom/shower

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

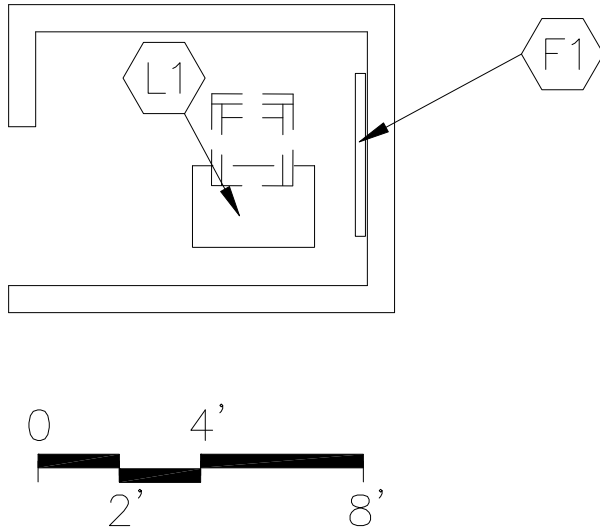
**CLASSROOM
CT-SE-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

FINISHES¹:		Spec. Ref.#	FEATURES¹:		Spec. Ref.#
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' sink base cabinet		123550
			F5 24'-32' combination marker board tack board and tackable wall surface		101100
Base:			F6 Technology support casework		123550
Resilient base		096500	F7 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
Walls:			F12 Mirror (optional)		102813
Paint		099100	Fire Suppression:		
			Fire suppression system		211000
LOOSE FURNISHINGS:			Plumbing:		
L1 Student desks/tables			Sink with drinking fountain		224000
L2 Reserved			Plumbing connections		224000/221116/221119
L3 Student chairs			HVAC:		
L4 Teacher workstations/computer support and chair			Supply/return air system		Div. 23
L5 8'-10' of low bookcases (fixed or mobile)			Independent temperature control		230923
L6 Reading table			Electrical:		
L7 File cabinet			Fluorescent lighting		265100
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
EQUIPMENT(optional)			Communications:		
Washer and dryer			T1 1 projector video port		271543
Small refrigerator			T2 1 voice port and phone		271513/273123
Range			T3 1 data port		
Oven			near teacher workstation		271513
Microwave			T4 Wireless access point cable above 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	T6 Wireless access point (WAP) as determined by Design – refer to Note 3		272133
Miscellaneous:			T7 Classroom technology center video port		271543, 274116, 274119, 275127
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.



CAPACITY:
SIZE:

1 - 2 persons
150 SF

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

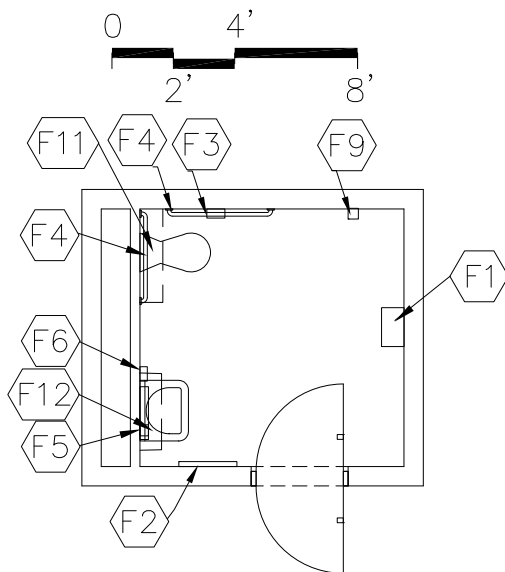
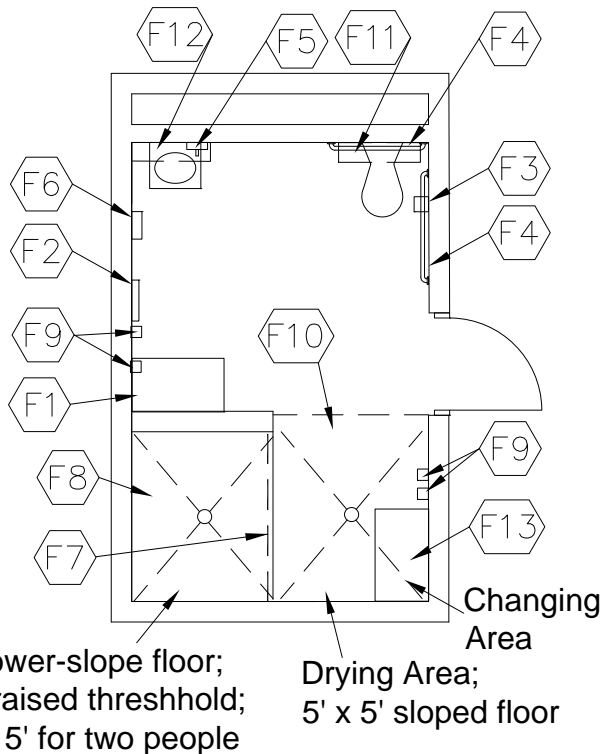
1. Loose furnishings shown represent one of many possible arrangements.
2. Walls floor to ceiling and an open area for ½ of the fourth wall.
3. See Chapter 1, page 1110-16 for specific areas needed for each disability.

WORKROOM/CONFERENCE**CT-SE-2 (Quiet Area)****CHAPTER 6: CAREER-TECHNICAL SCHOOL**

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



CAPACITY:
SIZE:

1 - 2 persons
100 SF

PROGRAM ACTIVITIES:

- Changing area
- Toilet / shower needs

SPATIAL RELATIONSHIPS:

- Next to special education classroom

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

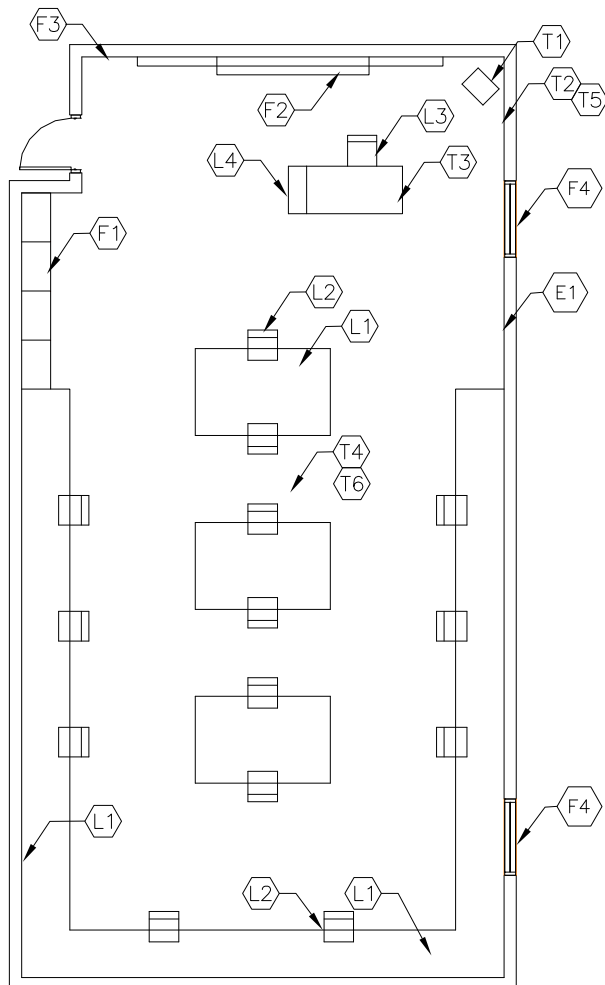
RESTROOM/SHOWER
CT-SE-3

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Restroom: ET, vinyl sheet flooring, 096500 porcelain tile, or ceramic tile 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, 096500 integral vinyl cove base, 093000 porcelain tile, or ceramic tile		F8 ADA shower accessories 102813	
Shower: Ceramic mosaic tile base or porcelain tile		F9 (2) 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 092400/099100 interior finish system 092513			
<u>Walls:</u>		<u>Plumbing:</u>	
Epoxy painted concrete masonry units 042000/099100		Wall-mounted water closet 224000	
or ceramic wall tile in shower 093000		Wall-mounted lavatory 224000	
and latex paint in restroom 099100		ADA shower controls and head 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. Refer to ADAAG 4.21 for grab bar and control locations.

**PROGRAM ACTIVITIES:**

- Testing of students' vocational interests and capabilities via physical aptitude exercises.

SPATIAL RELATIONSHIPS:

- Adjacent to career technical evaluation office
- Near workroom/conference
- Near administrative area

ENVIRONMENTAL CONSIDERATIONS:

- 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: 1200 SF
ANCILLARY SPACES: Career Technical Office
CT-SE-5

NOTES:

1. Loose furnishings 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.

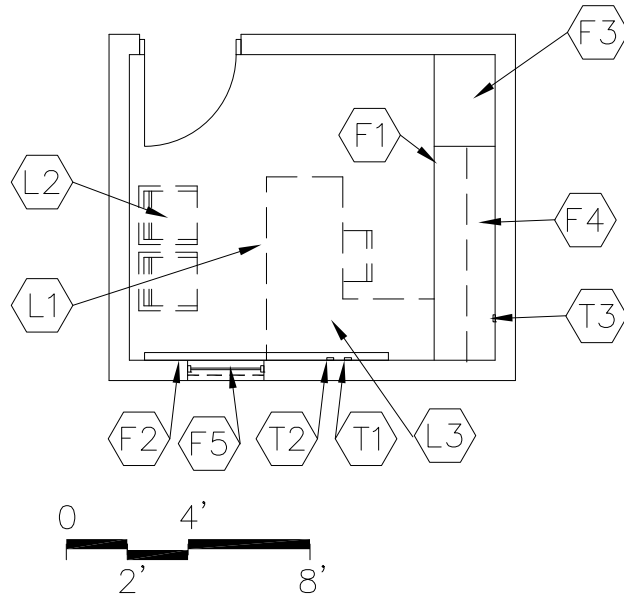
**CAREER TECHNICAL EVALUATION
CT-SE-4**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

		Spec.	
		Ref.#	
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet, carpet tile	096816	F1 Open casework - coats	123550
	096813	F2 8'-12' of marker board, tack board, or	
		tackable wall surface	101000
<u>Base:</u>		F3 Pencil sharpener support (optional)	062000
Resilient base	096500	F4 Windows with integral blinds	085113
<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	
Optional: Gypsum drywall on metal studs	092116 / 099100	<u>HVAC:</u>	
<u>LOOSE FURNISHINGS:</u>		Supply/return air system	Div. 23
L1 Student desk/tables		Independent temperature control	230923
L2 Student chairs		<u>Electrical:</u>	
L3 Teacher desk and chair		Fluorescent lighting	265100
L4 Desk height 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
<u>Electronic Safety and Security:</u>		<u>Communications:</u>	
Life safety devices per code	283111	T1 1 projector video port and video display	
<u>Miscellaneous:</u>		device	271543
Pencil sharpener (optional)		T2 1 voice port and phone	271513/273123
		T3 1 data port	
		near teacher workstation	271513
		T4 Wireless access point cable above	
		ceiling	271513
		Central sound system	275123
		Clock	275313
		T5 Classroom technology center video port	
		271543, 274116, 274119, 275127	
		T6 Wireless access point (WAP) as	
		determined by Design – refer to Note 2	
		272133	

NOTES:

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



PROGRAM ACTIVITIES:

- Private space for vocational evaluation coordinator
- One-on-one conferences with academic instructors, students, etc.

SPATIAL RELATIONSHIPS:

- Near career technical evaluation room
- Near administrative area
- Direct access to school circulation areas

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY: 1 - 3 persons
 SIZE: 120 SF
 ANCILLARY SPACES: Career Technical Eval
 CT-SE-4

NOTES:

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

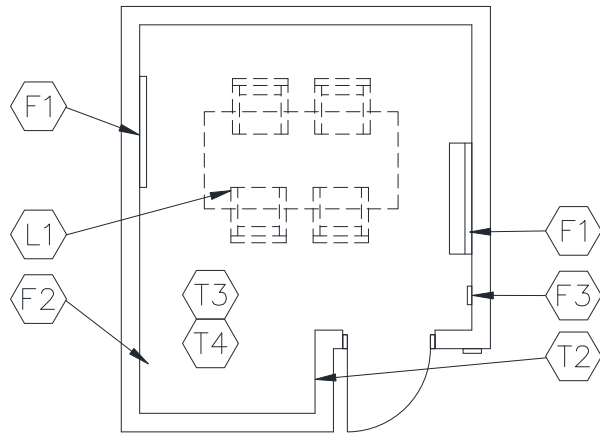
**CAREER TECHNICAL EVALUATION OFFICE
CT-SE-5**

CHAPTER 6: CAREER-TECHNICAL 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		101100
			or tackable wall surface		
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			Fire suppression system		211000
over metal studs	092116/099100				
<u>LOOSE FURNISHINGS:</u>			<u>Plumbing:</u>		
L1 Desk and chair			N/A		
L2 Visitor chairs					
L3 Computer desk return			<u>HVAC:</u>		
Wastebasket			Supply/return air system		Div. 23
			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 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.

**PROGRAM ACTIVITIES:**

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

SPATIAL RELATIONSHIPS:

- Near special education classrooms

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY:
SIZE:

4 - 5 students
360 SF

NOTES:

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

SMALL GROUP ROOM
CT-SE-6

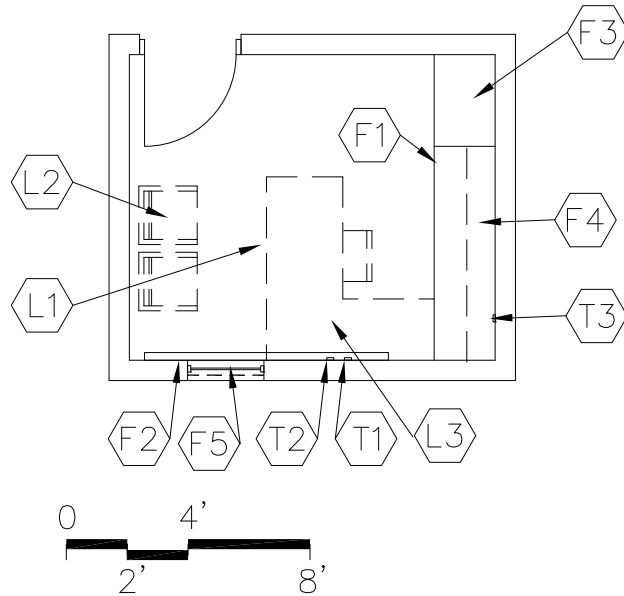
CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
	Spec. Ref.#		Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet, carpet tile	096816	F1 8'-10' of marker board, tack board, or tackable wall surface	101100
Optional: ET, sheet vinyl, linoleum, or rubber	096500 096516 096813	F2 Reserved	101100
		F3 4'-6' of work surface (optional)	123550
		F4 Pencil sharpener support (optional)	062000
<u>Base:</u>		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
<u>Ceiling:</u>		<u>Plumbing:</u>	
Suspended, acoustical	095113	N/A	
<u>Walls:</u>		<u>HVAC:</u>	
Painted concrete masonry units	042000/099100	Supply/return air system	Div. 23
		Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
L1 Work tables and chairs		Fluorescent lighting:	265100
L2 Reserved		Illumination level: See Table 8600-5	
Wastebasket		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.**



PROGRAM ACTIVITIES:

- Private space for job training coordinator
- One-on-one conferences with academic instructors, students, etc.

SPATIAL RELATIONSHIPS:

- Near career technical evaluation room
- Near administrative area
- Direct access to school circulation areas

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
wall only 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.

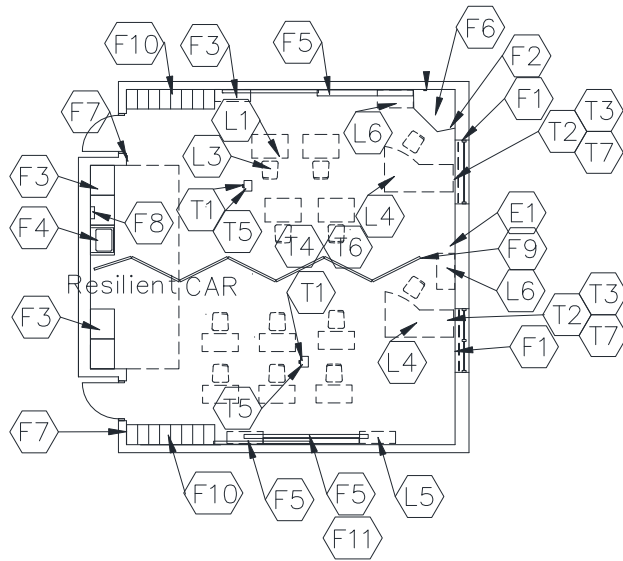
**JOB TRAINING OFFICE
CT-SE-7**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	<u>Spec. Ref.#</u>	<u>FEATURES¹:</u>	<u>Spec. Ref.#</u>
Flooring:		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816	F1 Work surface with file drawers	123550
	096813	F2 4' of tack board	101100
		or tackable wall surface	
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		Fire suppression system	211000
over metal studs	092116/099100		
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Desk and chair		N/A	
L2 Visitor chairs			
L3 Computer desk return		<u>HVAC:</u>	
Wastebasket		Supply/return air system	Div. 23
		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 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.

**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.

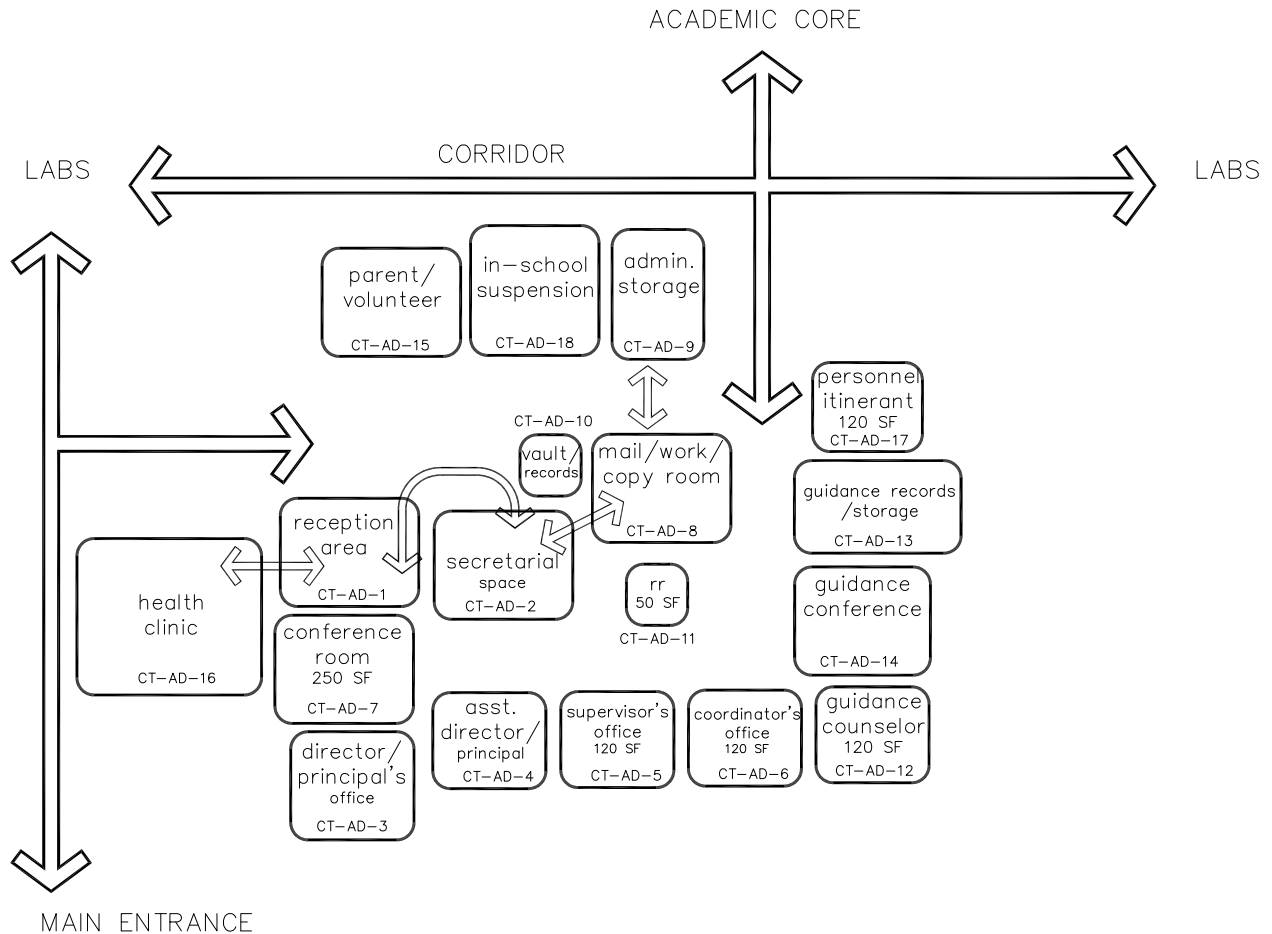
RESOURCE ROOM
CT-SE-8

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>		Spec. Ref.#	<u>FEATURES¹:</u>		Spec. Ref.#
<u>Flooring:</u>			<u>Fixed Items:</u>		
Combination carpet, carpet tile		096816	F1 Windows with integral blinds		085113
with resilient options		096500	F2 Tall wardrobe with file drawers		123550
Option: All ET, sheet vinyl,		096516	F3 8'-12' of base cabinets		123550
linoleum, or rubber			F4 3' sink base cabinet		123550
			F5 20'-32' combination chalk/marker board,		
			tack board, tackable wall surface		101100
<u>Base:</u>			F6 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
<u>Walls:</u>			F11 Projection screen (optional)		115213
Paint		099100	F12 Mobile storage cabinet (optional)		123550
			F13 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					
L6 File cabinet			<u>HVAC:</u>		
Wastebasket			Supply/return air system		Div. 23
			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		
			each data and video port		262726
E1 Duplex receptacle with dedicated			<u>Communications:</u>		
circuit for wireless devices			T1 1 projector video port		271543
			T2 1 voice port and phone		271513/237123
<u>Communications (cont'd):</u>			T3 1 data port		
T6 Wireless access point (WAP) as			near each teacher workstation		271513
determined by Design – refer to Note 3			T4 Wireless access point cable above ceiling		
		272133			271513
T7 Classroom technology center video port			Clock		275313
271543, 274116, 274119, 275127			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.

**NOTE:**

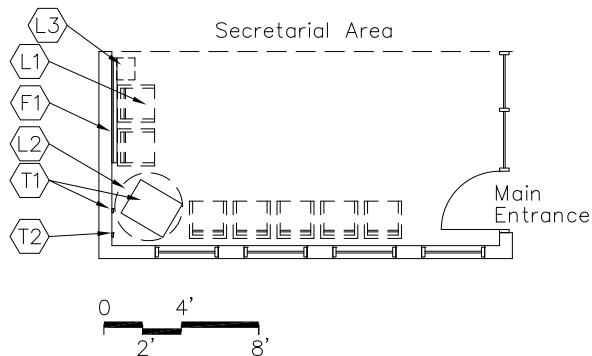
This is an example of how the administrative spaces in a career-technical school could be arranged. This is only meant to demonstrate the relationships between various areas of the building.

Following are the Administrative space plates for the following rooms:

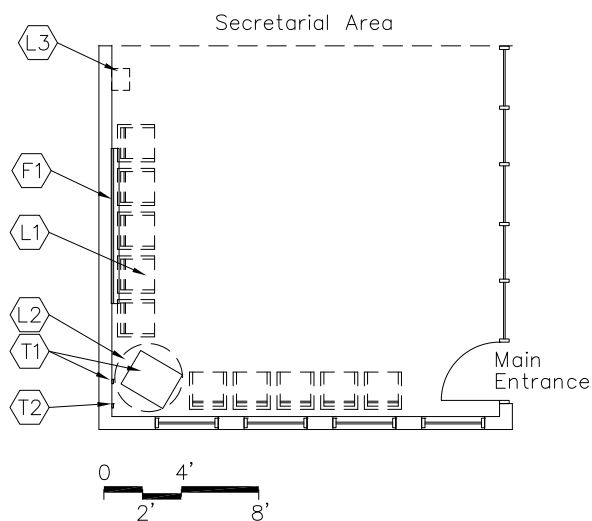
CT-AD-1	Reception Area	CT-AD-10	Vault/Records
CT-AD-2	Secretarial Space	CT-AD-11	Restroom
CT-AD-3	Director/Principal's Office	CT-AD-12	Guidance Counselor
CT-AD-4	Assistant Director/Principal's Office	CT-AD-13	Guidance Records/Storage
CT-AD-5	Supervisor's Office	CT-AD-14	Guidance Conference
CT-AD-6	Coordinator's Office	CT-AD-15	Parent/Volunteer
CT-AD-7	Conference Room	CT-AD-16	Health Clinic (<i>includes restroom</i>)
CT-AD-8	Mail/Work/Copy room	CT-AD-17	Itinerant Personnel
CT-AD-9	Administrative Storage	CT-AD-18	In-school Suspension

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200 SF



500 SF



CAPACITY: 6 - 8 or 8 - 10 visitors
 SIZE: 200 – 500 SF
 ANCILLARY SPACES: Secretarial Area
 CT-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
CT-AD-1

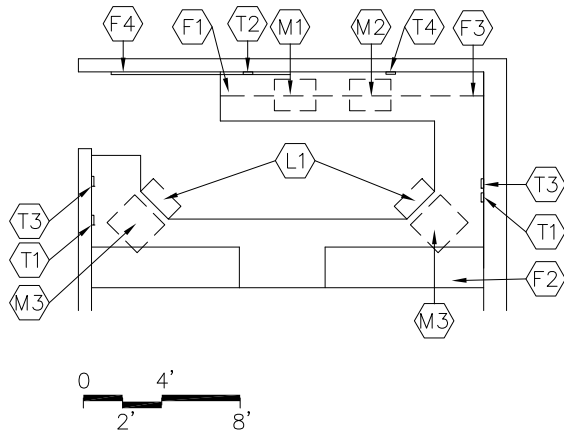
CHAPTER 6: CAREER-TECHNICAL SCHOOL

		Spec.			Spec.
<u>FINISHES¹:</u>		<u>Ref.#</u>	<u>FEATURES¹:</u>		<u>Ref.#</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

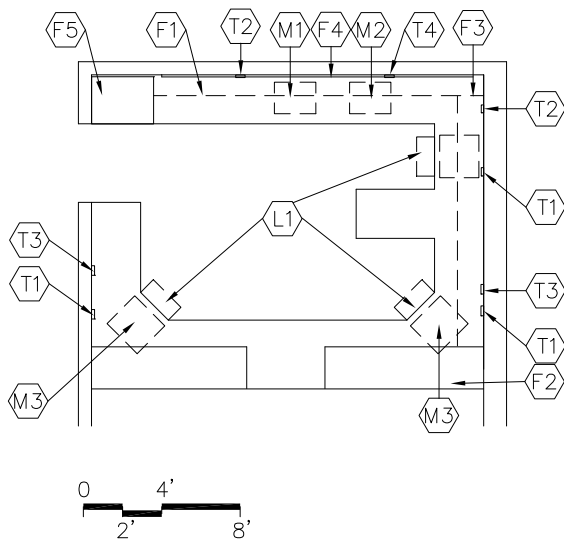
NOTES:

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

200 SF ADA Compliant Approach



500 SF ADA Compliant Approach



CAPACITY: 1 - 2 or 2 - 3 staff
 SIZE: 200 – 500 SF
 ANCILLARY SPACES: Reception Area
 CT-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.

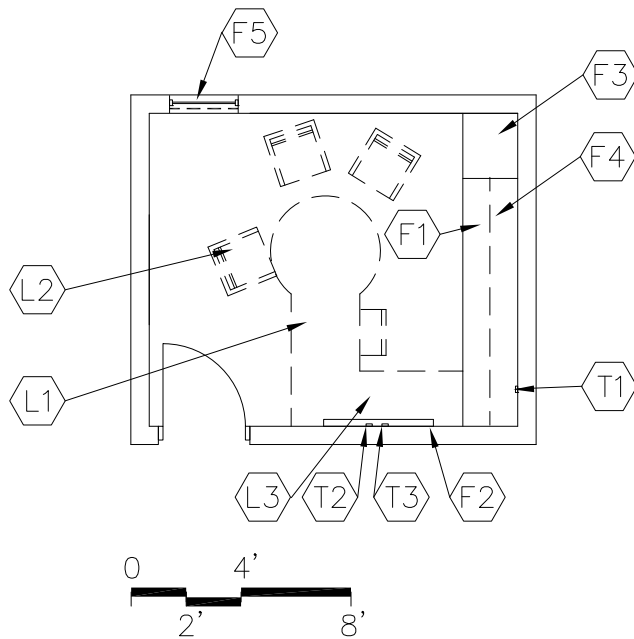
SECRETARIAL AREA
CT-AD-2

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
	Spec. Ref.#	<u>Fixed Items²:</u>	Spec. Ref.#
Flooring:			
Carpet or Carpet Tile	096816 096813	F1 24' - 60' of work surface with file drawers	123550
Base:		F2 42" high counter top	123550
Resilient base	096500	with portion of counter 34" high or lower	
Ceiling:		F3 16'-24' of wall cabinets for forms, supplies, books, and manuals	123550
Suspended, acoustical	095113	F4 Tackable wall surface (optional)	101100
Walls:		F5 Tall cabinet for coats (optional)	123550
Painted gypsum wallboard over metal studs	092116/099100	<u>Fire Suppression:</u>	
		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	230923
		(coupled with similarly loaded 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
		Emergency lighting	265100
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/273123
		at each secretarial workstation	
		T2 1 fax port	271513/273113
		T3 1 data port	271513
		at each secretarial workstation	
		T4 1 data port for printer	271513
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
<u>Miscellaneous:</u>			
The following items are to be funded by the school district:			
M1 Fax machine			
M2 Printer			
M3 Computer/typewriter			

NOTES:

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



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY:
SIZE:

1 - 4 persons
150 SF

NOTES:

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

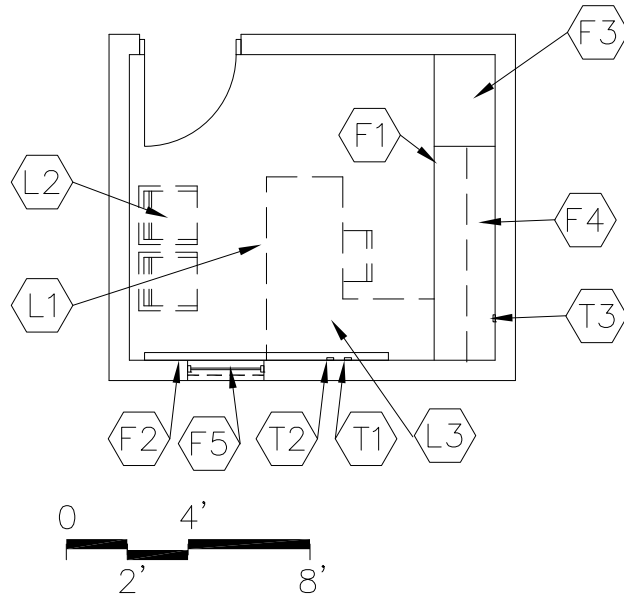
DIRECTOR / PRINCIPAL'S OFFICE
CT-AD-3

CHAPTER 6: CAREER-TECHNICAL 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		101100
			or tackable wall surface		
Base:			F3 Tall wardrobe (optional)		123550
Resilient base		096500	F4 Wall cabinets above work surface		123550
Ceiling:			F5 Window with integral blind	085116	
Suspended, acoustical		095113	<u>Fire Suppression:</u>		
Walls:			Fire suppression system		211000
Painted gypsum wallboard			<u>Plumbing:</u>		
over metal studs		092116 / 099100	N/A		
<u>LOOSE FURNISHINGS:</u>			<u>HVAC:</u>		
L1 Desk and chair			Supply/return air system		Div. 23
L2 Visitor chairs			Independent temperature control		230923
L3 Computer desk return			(coupled with similarly loaded adjacent spaces)		
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 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.



PROGRAM ACTIVITIES:

- Assist director/principal in administrative tasks
- One-on-one conferences with academic instructors

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:
SIZE:

1 - 3 persons
120 SF

NOTES:

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

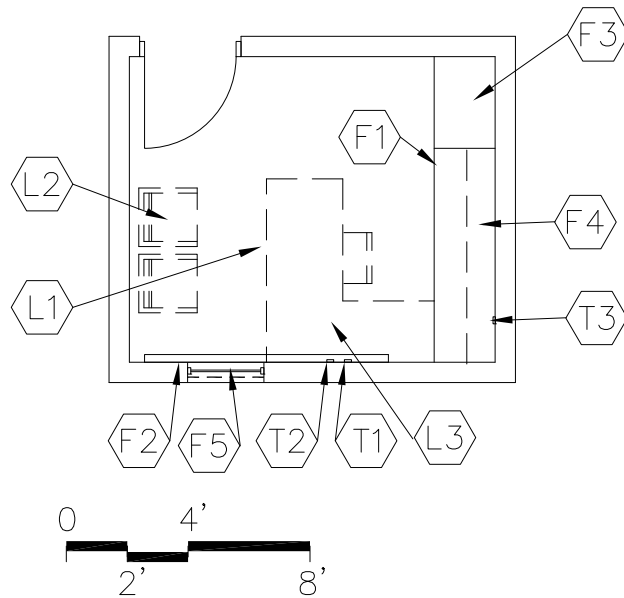
ASSISTANT DIRECTOR / PRINCIPAL'S OFFICE
CT-AD-4

CHAPTER 6: CAREER-TECHNICAL 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		101100
			or tackable wall surface		
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			Fire suppression system		211000
over metal studs	092116/099100				
<u>LOOSE FURNISHINGS:</u>			<u>Plumbing:</u>		
L1 Desk and chair			N/A		
L2 Visitor chairs					
L3 Computer desk return			<u>HVAC:</u>		
Wastebasket			Supply/return air system		Div. 23
			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 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.



PROGRAM ACTIVITIES:

- Private space for program supervisor
- One-on-one conferences with academic instructors

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:
SIZE:

1 - 3 persons
120 SF

NOTES:

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

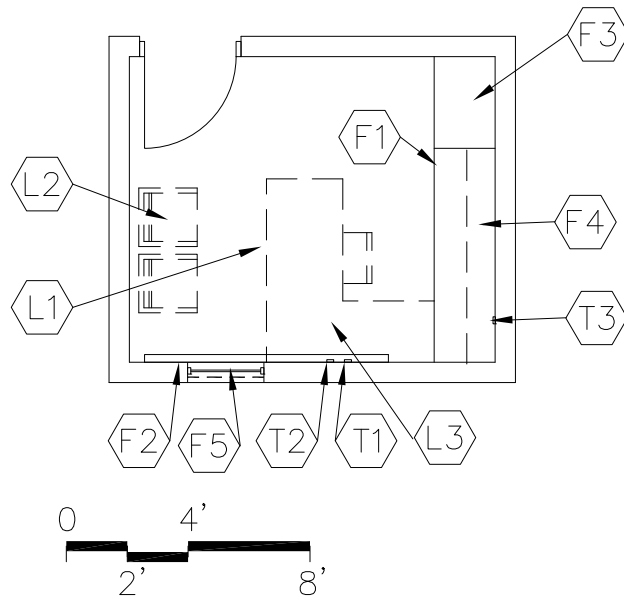
**SUPERVISOR'S OFFICE
CT-AD-5**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	<u>Spec. Ref.#</u>	<u>FEATURES¹:</u>	<u>Spec. Ref.#</u>
Flooring:		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816	F1 Work surface with file drawers	123550
	096813	F2 4' of tack board	101100
		or tackable wall surface	
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		Fire suppression system	211000
over metal studs	092116/099100		
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Desk and chair		N/A	
L2 Visitor chairs			
L3 Computer desk return		<u>HVAC:</u>	
Wastebasket		Supply/return air system	Div. 23
		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 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.



PROGRAM ACTIVITIES:

- Private space for coordinator
- One-on-one conferences with academic instructors

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:
SIZE:

1 - 3 persons
120 SF

NOTES:

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

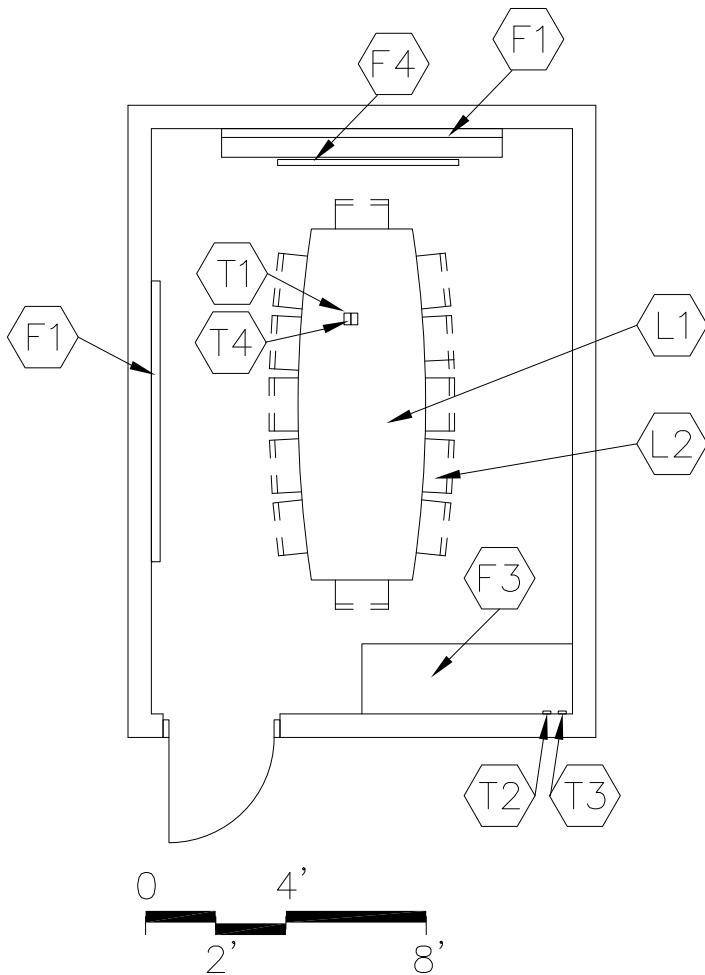
**COORDINATOR'S OFFICE
CT-AD-6**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	<u>Spec. Ref.#</u>	<u>FEATURES¹:</u>	<u>Spec. Ref.#</u>
Flooring:		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816	F1 Work surface with file drawers	123550
	096813	F2 4' of tack board	101100
		or tackable wall surface	
Base:		F3 Tall wardrobe	123550
Resilient base	096500	F4 Wall cabinets above work surface	123550
		F5 Window with integral blind	085116
Ceiling:		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
Walls:		<u>Plumbing:</u>	
Painted gypsum wallboard		N/A	
over metal studs	092116/099100		
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Desk and chair		Supply/return air system	Div. 23
L2 Visitor chairs		Independent temperature control	230923
L3 Computer desk return		(coupled with similarly loaded	
Wastebasket		adjacent spaces)	
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		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.



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 director/principal's office
- Near reception area
- Near secretarial area

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

CONFERENCE ROOM
CT-AD-7

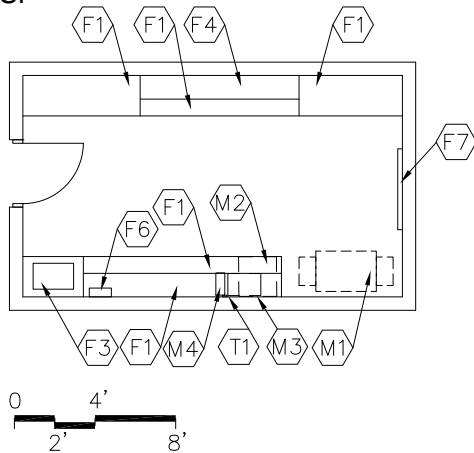
CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>		Spec. Ref.#	<u>FEATURES¹:</u>		Spec. Ref.#
Flooring:			<u>Fixed Items:</u>		
Carpet or Carpet Tile		096816	F1 16' combination of marker board,		101100
		096813	tackboard, tackable wall surface or media		
			display cabinet		
Base:			F2 Reserved		
Resilient base		096500	F3 4'-6' of base cabinets (optional)		123550
Ceiling:			F4 Projection screen (optional)		115213
Suspended, acoustical		095113			
Walls:			<u>Fire Suppression:</u>		
Painted gypsum wallboard			Fire suppression system		211000
over metal studs	092116/099100		<u>Plumbing:</u>		
			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 Overhead projector		274119
			Clock		275313
			Central sound system		275123
			<u>Electronic Safety and Security:</u>		
			Life safety devices per code		283111
			<u>Miscellaneous:</u>		
			N/A		

NOTES:

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

200 SF



PROGRAM ACTIVITIES:

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

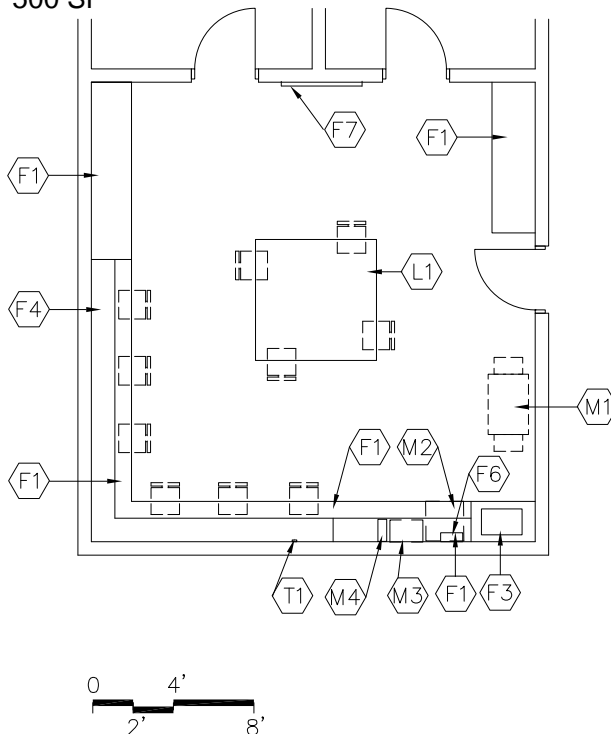
SPATIAL RELATIONSHIPS:

- Near secretarial area

ENVIRONMENTAL CONSIDERATIONS:

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

500 SF



CAPACITY:
SIZE:

N/A
200 - 500 SF

NOTES:

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

MAIL/WORK/COPY ROOM
CT-AD-8

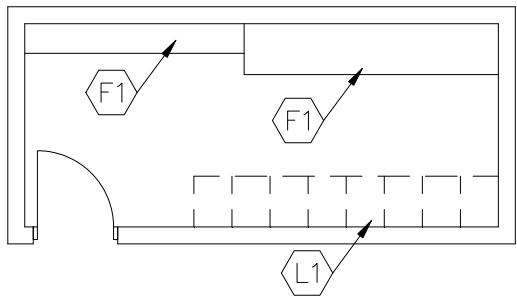
CHAPTER 6: CAREER-TECHNICAL SCHOOL

		Spec.			Spec.
		Ref.#			Ref.#
<u>FINISHES¹:</u>			<u>FEATURES¹:</u>		
Flooring:			<u>Fixed Items:</u>		
Carpet, carpet tile, linoleum, ET,		096500	F1 20'-24' combination wall and		123550
rubber, or sheet vinyl		096813	base cabinets		
		096816	F2 8'-12' of tall storage cabinets		123550
		096516	or about 32' maximum of a combination		
			storage cabinets		
Base:			F3 3' sink base cabinet		123550
Resilient base		096500	F4 Mail cubicles for all staff		123200
			F5 Reserved		
Ceiling:			F6 Towel dispenser (optional)		102813
Suspended, acoustical		095113	F7 4' tack board or		101100
			marker board (optional)		
Walls:			<u>Fire Suppression:</u>		
Painted gypsum wallboard			Fire suppression system		211000
over metal studs		092116/099100	<u>Plumbing:</u>		
<u>LOOSE FURNISHINGS:</u>			Sink		224000
L1 Work table and chairs			Plumbing connections		
(applicable in 300 SF space only)					224000/221116/221119
Wastebasket			<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.

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:
SIZE:

N/A
150 - 200 SF

NOTES:

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

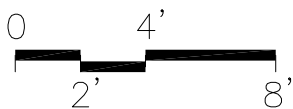
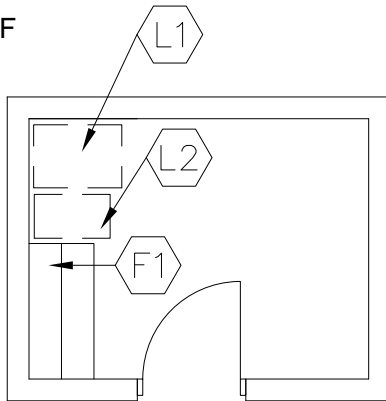
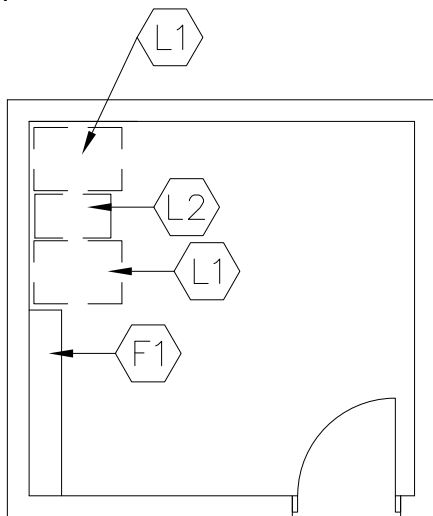
ADMINISTRATIVE STORAGE
CT-AD-9

CHAPTER 6: CAREER-TECHNICAL SCHOOL

		Spec. Ref.#			Spec. Ref.#
<u>FINISHES¹:</u>			<u>FEATURES¹:</u>		
Flooring:			<u>Fixed Items:</u>		
<i>Carpet, carpet tile, linoleum, ET,</i>		096500	F1 10'-20' of open shelving		
rubber, <i>or sheet vinyl</i>		096813	depth may vary (fixed or loose)		123550
		096816	Option: mobile storage shelving		105626
		096516			
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			To be determined by Design Professional		
over metal studs		092116/099100	Supplemental heat as required		Div. 23
<u>LOOSE FURNISHINGS:</u>			<u>Electrical:</u>		
L1 File cabinets			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.

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.

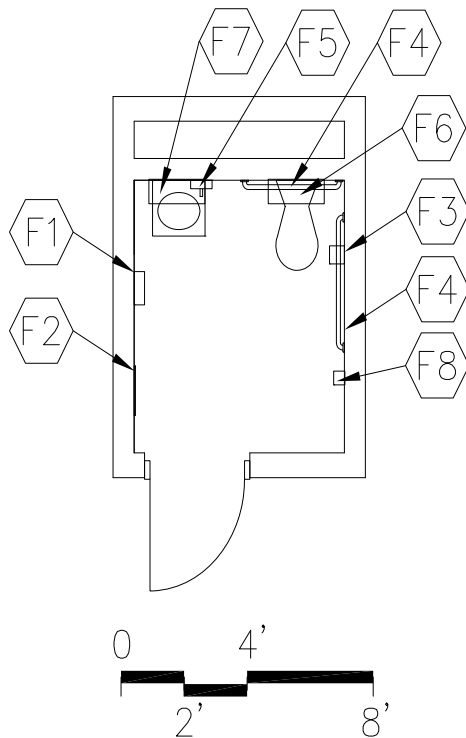
VAULT/RECORDS
CT-AD-10

CHAPTER 6: CAREER-TECHNICAL SCHOOL

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

NOTES:

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



CAPACITY:
SIZE:

1 person
60 SF

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Located in the administrative area

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

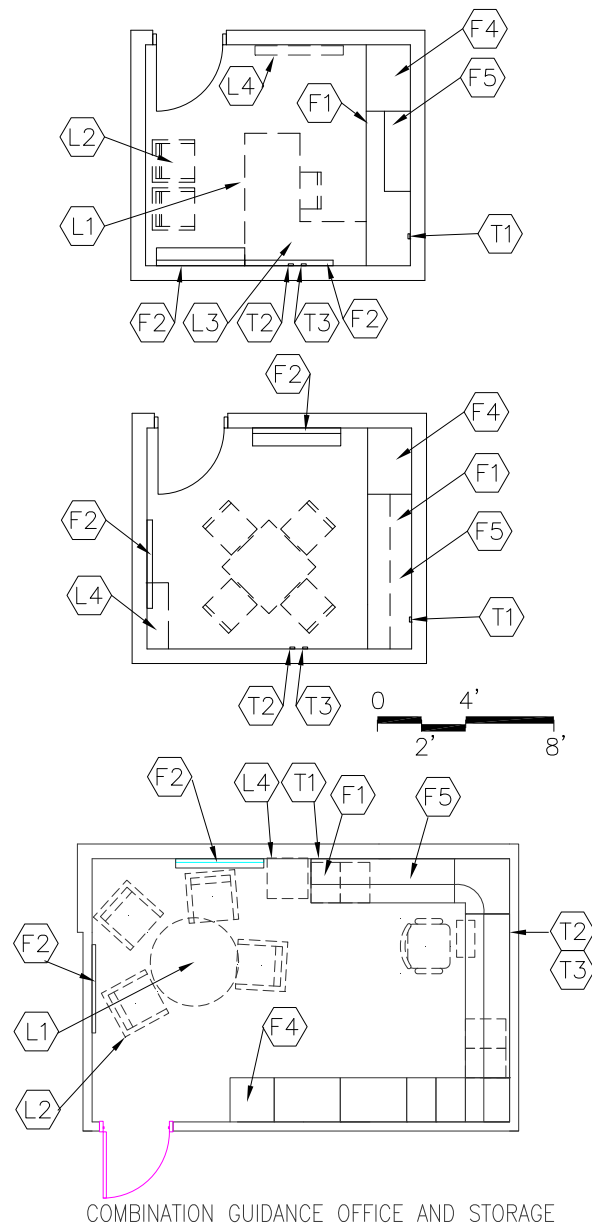
RESTROOM
CT-AD-11

CHAPTER 6: CAREER-TECHNICAL SCHOOL

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



CAPACITY:
SIZE:

1 - 3 persons
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
CT-AD-12**

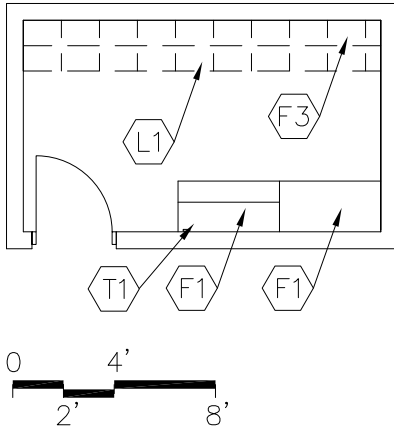
CHAPTER 6: CAREER-TECHNICAL SCHOOL

<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 8'-12' combination 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			
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 Desk or table, with chair			N/A		
L2 Visitor chairs					
L3 Computer desk return			<u>HVAC:</u>		
L4 Bookcase (fixed or loose)			Supply/return air system		Div. 23
Wastebasket			Independent temperature control (coupled with similarly loaded adjacent spaces)		230923
			<u>Electrical:</u>		
			Single level switching		262726
			Fluorescent lighting		265100
			Illumination level: See Table 8600-5		
			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		

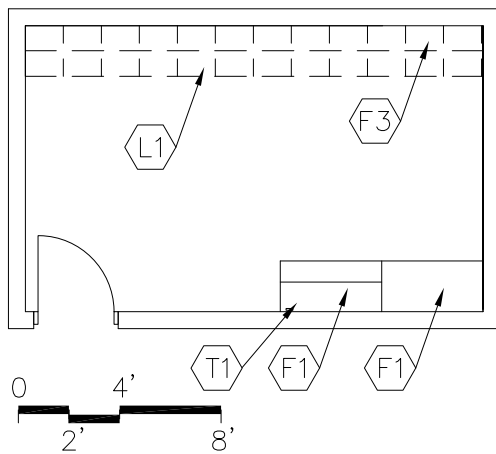
NOTES:

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.

100 SF



150 SF

CAPACITY:
SIZE:N/A
100 - 150 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:

- Loose furnishings shown represent one of many possible arrangements.

GUIDANCE RECORDS/STORAGE
CT-AD-13

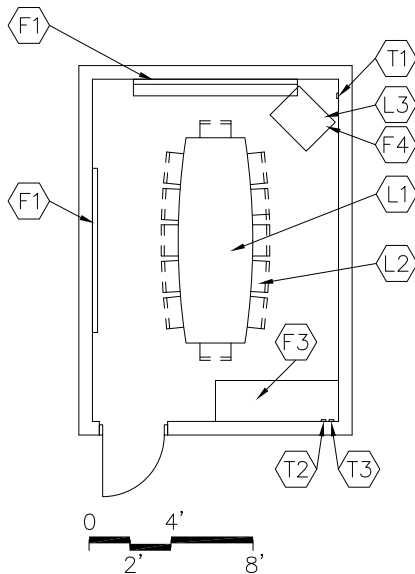
CHAPTER 6: CAREER-TECHNICAL SCHOOL

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

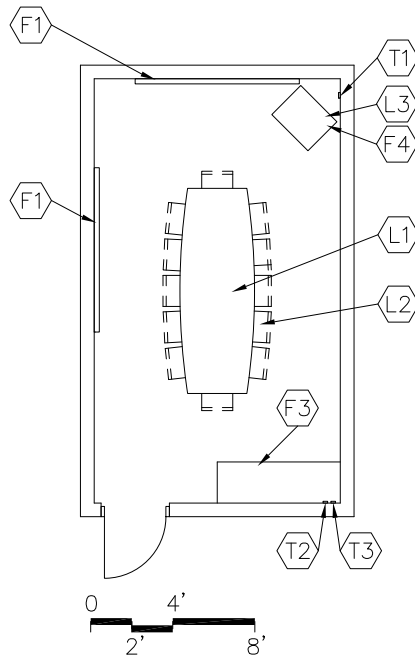
NOTES:

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

150 SF



250 SF

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

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

GUIDANCE CONFERENCE
CT-AD-14

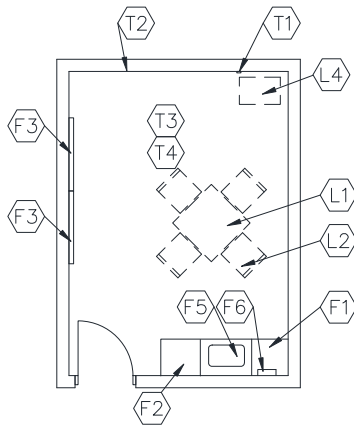
CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816	F1 10'-16' combination marker board, tack board, tackable wall surface	101100
	096813	F2 Reserved	
Base:		F3 4'-6' of base cabinets	123550
Resilient base	096500	F4 Technology support casework (optional)	123550
Ceiling:		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
Walls:		<u>Plumbing:</u>	
Painted gypsum wallboard over metal studs	092116/099100	N/A	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Conference table		Supply/return air system	Div. 23
L2 Chairs		Independent temperature control	230923
L3 Monitor cart or cabinet (could be fixed casework)		<u>Electrical:</u>	
Wastebasket		Multilevel switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		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	

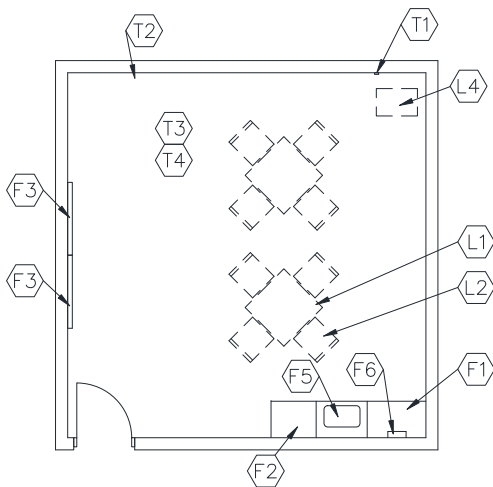
NOTES:

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



400 SF



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

PROGRAM ACTIVITIES:

- After school meetings, community, and small group meetings

SPATIAL RELATIONSHIPS:

- Near administrative area

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

**PARENT/VOLUNTEER
CT-AD-15**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

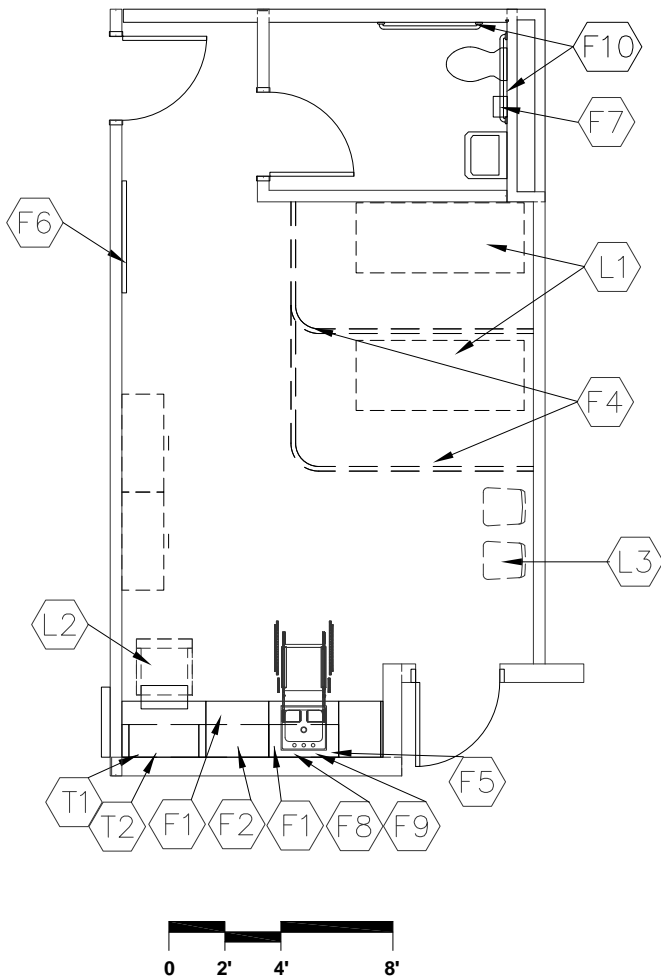
	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816	F1 About 3' of base cabinets	123550
	096813	F2 Tall wardrobe or coat cabinet (optional)	123550
Base:		F3 8'-12' combination marker board, tack board, tackable wall surface	101100
Resilient base	096500	F4 Reserved	
Ceiling:		F5 3' sink base cabinet	123550
Suspended, acoustical	095113	F6 Towel dispenser	102813
Walls:		Pencil sharpener support (optional)	062000
Painted gypsum wallboard over metal studs	092116/099100	<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Table		Sink	224000
L2 Chairs		Plumbing connections	224000/221116/221119
L3 Reserved			
L4 Monitor cart			
Wastebasket			
		<u>HVAC:</u>	
		Supply/return air system	Div. 15
		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>Miscellaneous:</u>		<u>Communications:</u>	
Pencil sharpener (optional)		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

NOTES:

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

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

450 SF



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

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

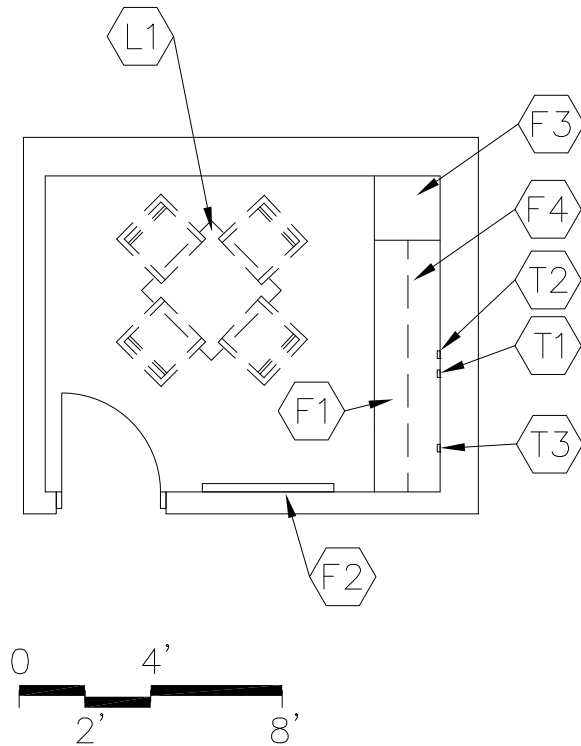
HEALTH CLINIC (includes restroom)
CT-AD-16

CHAPTER 6: CAREER-TECHNICAL SCHOOL

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



APACITY:
SIZE:

1 - 3 persons
120 SF

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

**ITINERANT PERSONNEL
CT-AD-17**

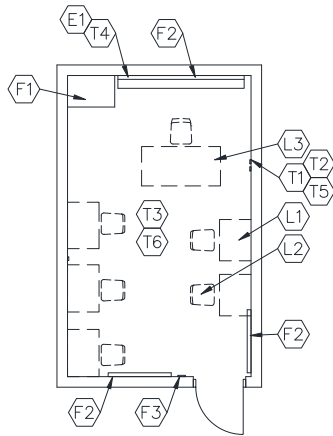
CHAPTER 6: CAREER-TECHNICAL SCHOOL

		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.

200 SF



PROGRAM ACTIVITIES:

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

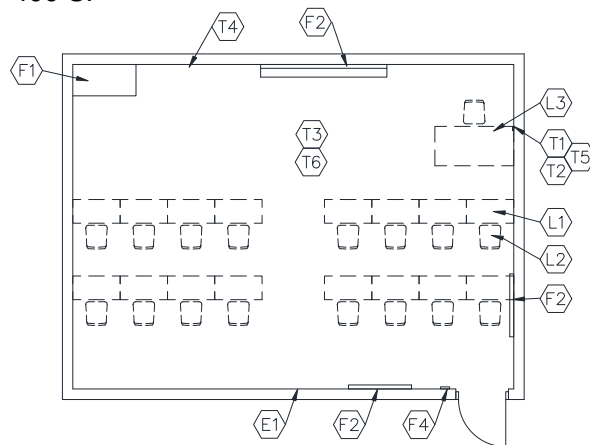
SPATIAL RELATIONSHIPS:

- Near principal's office
- Near secretarial area

ENVIRONMENTAL CONSIDERATIONS:

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

400 SF



CAPACITY:
SIZE:

5 - 8 students
200 - 400 SF

NOTES:

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

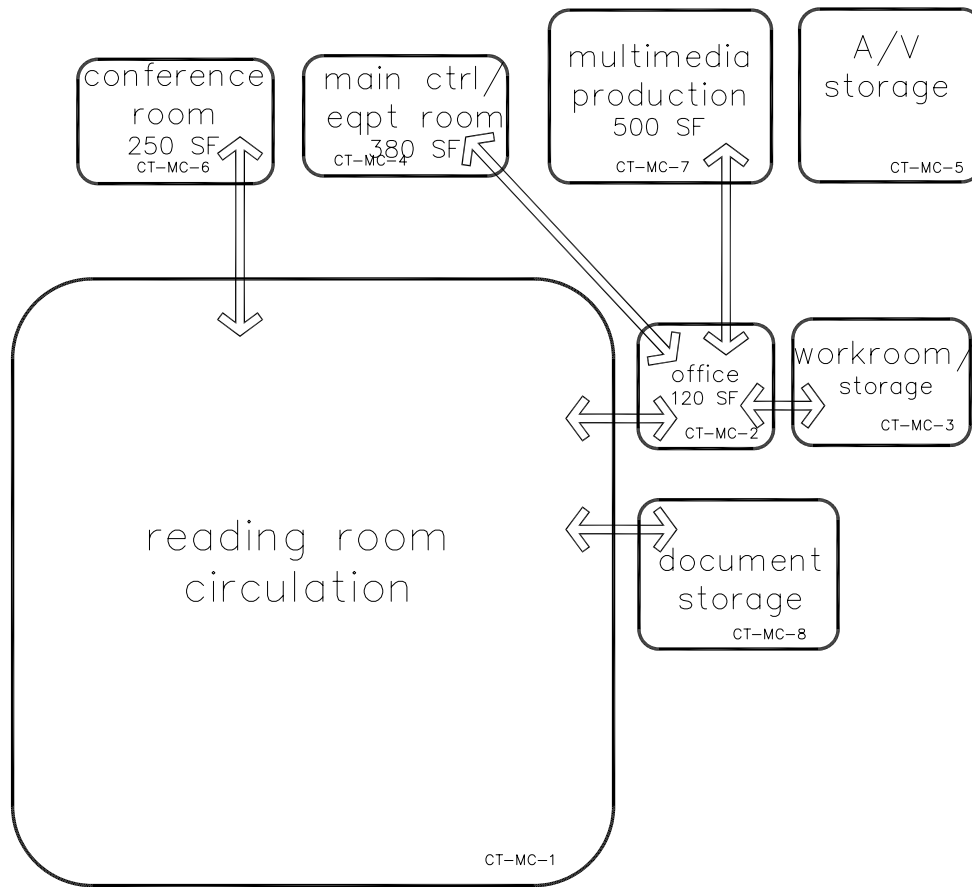
IN-SCHOOL SUSPENSION
CT-AD-18

CHAPTER 6: CAREER-TECHNICAL SCHOOL

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

NOTES:

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



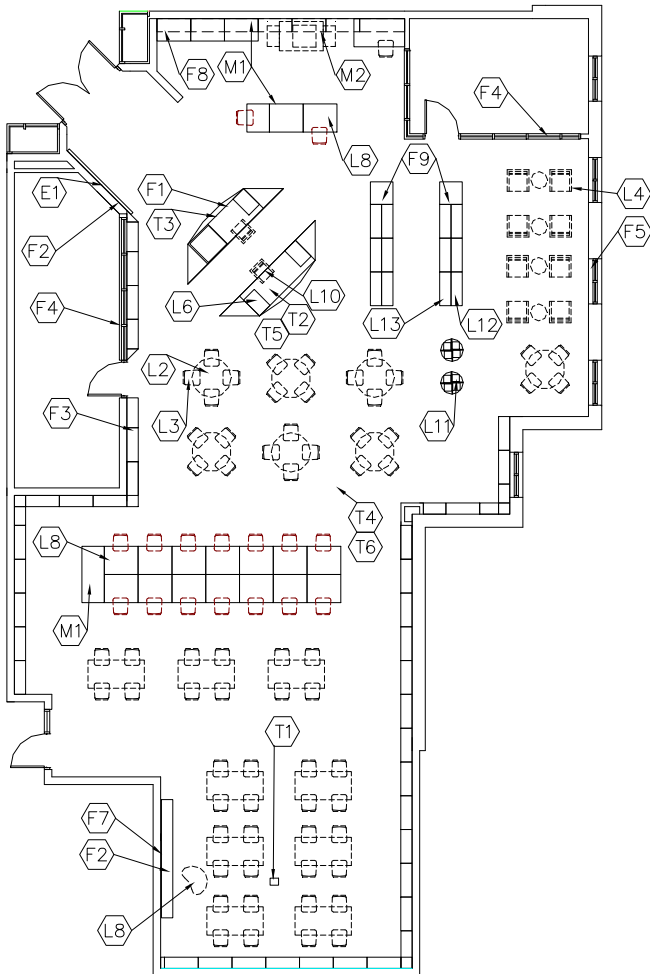
NOTE:

This is an example of how the media center spaces in a career-technical 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:

- CT-MC-1 Reading Room/Circulation
- CT-MC-2 Media Specialist Office
- CT-MC-3 Workroom/Storage
- CT-MC-4 **Main Control/Equipment Room**
- CT-MC-5 A/V Storage
- CT-MC-6 Conference Room
- CT-MC-7 Multimedia Production Room
- CT-MC-8 Document Storage

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

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

- Natural light opening with an operable vent
- Environmental sound control -
wall only minimum STC 45
ceiling minimum CAC 35, NRC 0.70
- Visual awareness of space to students and
staff through transparency to corridor

NOTES:

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

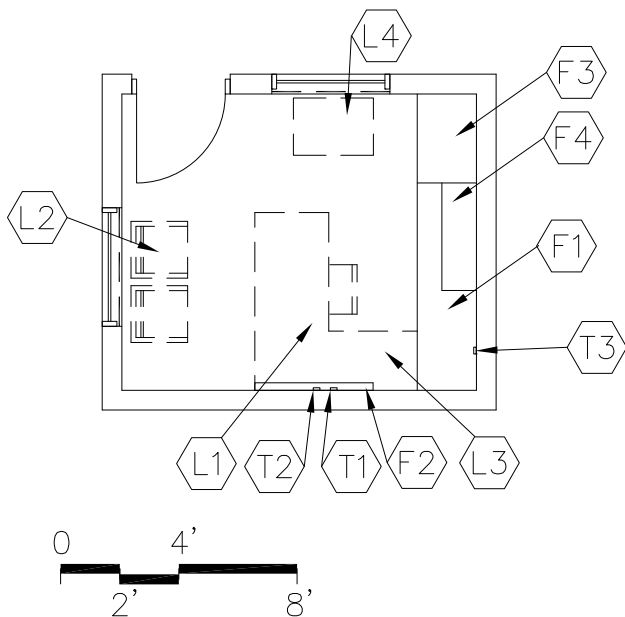
READING ROOM/CIRCULATION CT-MC-1

CHAPTER 6: CAREER-TECHNICAL SCHOOL

		Spec. Ref.#			Spec. Ref.#
<u>FINISHES¹:</u>			<u>FEATURES¹:</u>		
Flooring:			<u>Fixed Items:</u>		
Carpet or Carpet Tile		096816	F1	Circulation desk casework	123550
		096813	F2	12'-20' combination marker board, tack board, tackable wall surface	101100
Base:			F3	Library book shelving (see notes)	115123
Resilient base		096500	F4	Interior windows	081113/088000
Ceiling:			F5	Windows with integral blinds or shades	085113
Suspended, acoustical		095113	F6	Pencil sharpener support (optional)	062000
Walls:			F7	Projection screen (optional)	115213
Painted concrete masonry units		042000/099100	F8	Technology support casework	123550
Acoustical wall treatment		098000	F9	Search station terminals	123550
<u>LOOSE FURNISHINGS²:</u>				Roller window shades (optional)	122413
L1	Mobile book carts		<u>Fire Suppression:</u>		
L2	Student tables			Fire suppression system	211000
L3	Student chairs		<u>Plumbing:</u>		
L4	Casual seating chairs			N/A	
L5	Study carrels (optional)		<u>HVAC:</u>		
L6	(3) Desk height file cabinets			Supply/return air system	Div. 23
L7	Atlas stand (optional)			Independent temperature control	230923
L8	Computer workstation furniture		<u>Electrical:</u>		
L9	Dictionary stand (optional)			Fluorescent lighting:	265100
L10	Circulation desk task chair			Illumination level: See Table 8600-5	
L11	Paperback book racks			Multilevel switching	262726
L12	Newspaper racks			10 duplex receptacles	262726
L13	Magazine display			Double duplex receptacle adjacent to each data and video port	262726
	Wastebaskets			Emergency lighting per code	265100
				Means of egress lighting per code	265100
<u>Electronic Safety and Security:</u>			<u>Communications:</u>		
Life safety devices per code		283111	T1	1 projector video port and video display device	271543/274119
<u>Miscellaneous:</u>			T2	1 voice port and phone at circulation desk	271513/273123
Pencil sharpener (optional)			T3	2 data ports for media center automation 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 1 in student work area			Clock	275313
M2	Copier			Central sound system	275123
			T5	Classroom technology center video port	271543, 274116, 274119, 275127
E1	Duplex receptacle with dedicated circuit for wireless devices		T6	Wireless access point (WAP) as determined by Design – refer to Note 6.	272133

NOTES:

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

**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:
SIZE:

1 - 3 persons
120 SF

NOTES:

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

MEDIA SPECIALIST OFFICE
CT-MC-2

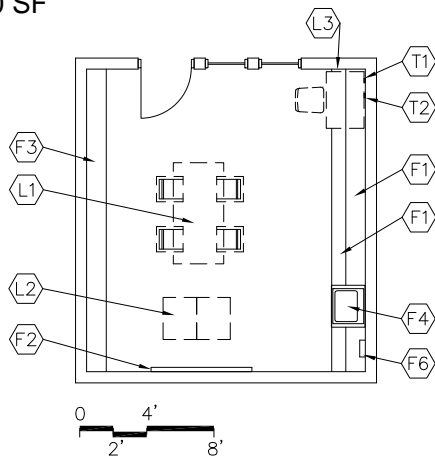
CHAPTER 6: CAREER-TECHNICAL SCHOOL

		Spec.			Spec.
<u>FINISHES¹:</u>		<u>Ref.#</u>	<u>FEATURES¹:</u>		<u>Ref.#</u>
Flooring:			<u>Fixed Items:</u>		
Carpet or Carpet Tile		096816	F1 Work surface with file drawers		123550
		096813	F2 4' of tack board		101100
			or tackable wall surface		
Base:			F3 Tall wardrobe		123550
Resilient base		096500	F4 Wall cabinets		123550
			F5 Bookcases (optional)		123550
Ceiling:			<u>Fire Suppression:</u>		
Suspended, acoustical		095113	Fire suppression system		211000
Walls:			<u>Plumbing:</u>		
Painted concrete masonry units		042000/099100	N/A		
<u>LOOSE FURNISHINGS:</u>			<u>HVAC:</u>		
L1 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
			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>		
			Interior window		081113/088000

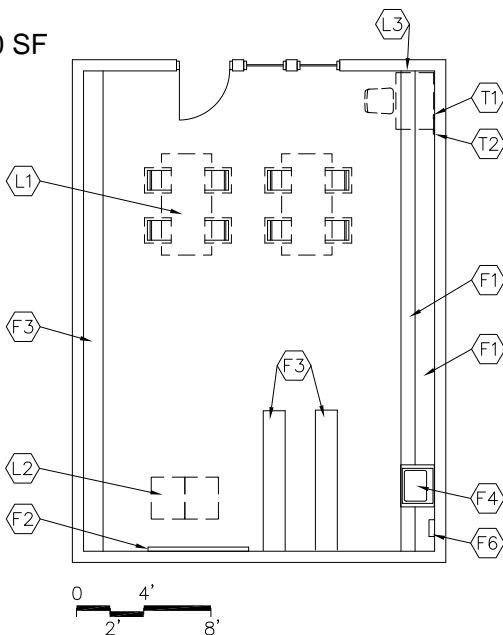
NOTES:

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

300 SF



500 SF

CAPACITY:
SIZE:2 - 8 staff
300 - 500 SF**PROGRAM ACTIVITIES:**

- Space for receiving, processing, and repairing media material

SPATIAL RELATIONSHIPS:

- Near reading room/circulation
- Near media specialist office

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

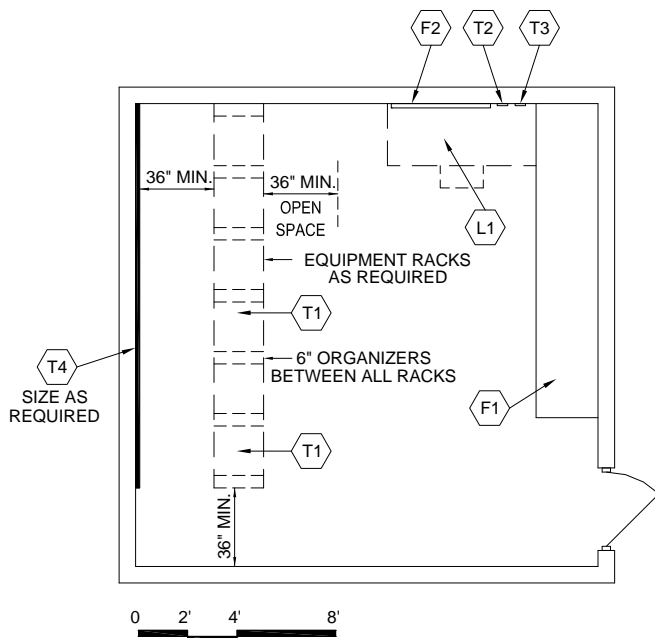
WORKROOM/STORAGE
CT-MC-3

CHAPTER 6: CAREER-TECHNICAL SCHOOL

		Spec. Ref.#			Spec. Ref.#
<u>FINISHES¹:</u>			<u>FEATURES¹:</u>		
Flooring:			<u>Fixed Items²:</u>		
	<i>Linoleum</i> , rubber, <i>ET or sheet</i>	096500	F1	26'-50' combination base, wall and tall cabinets	123550
	<i>Vinyl</i>	096516	F2	4'-8' of tack board or marker board	101100
	Option: Carpet, carpet tile	096813	F3	16'-60' of bookcases	123550
		096816	F4	3' sink base cabinet	123550
Base:			F5	Reserved	
	Resilient base	096500	F6	Towel dispenser	102813
Ceiling:			<u>Fire Suppression:</u>		
	Suspended, acoustical	095113		Fire suppression system	211000
Walls:			<u>Plumbing:</u>		
	Painted concrete masonry units			Sink	224000
		042000/099100		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 adjacent spaces)	
	Wastebasket		<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.



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

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.

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
CT-MC-4

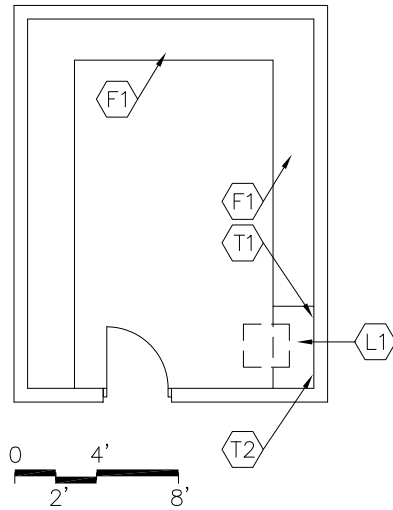
CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
ET or sheet vinyl	096500	F1 8'-16' of open shelving, depth may vary (fixed or loose)	123550
Base:		F2 4' of tack board 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.

250 SF

**PROGRAM ACTIVITIES:**

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

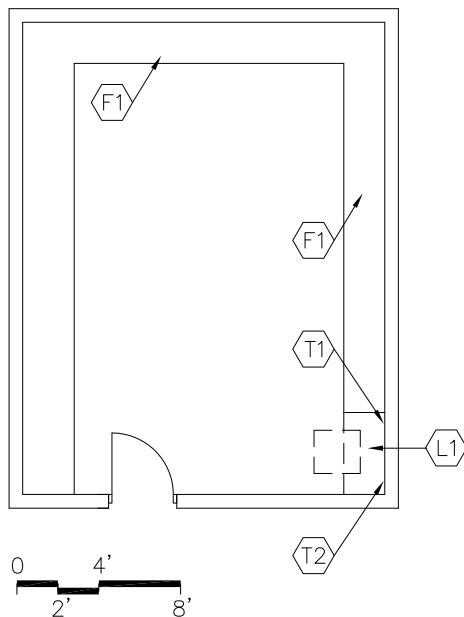
SPATIAL RELATIONSHIPS:

- Near media specialist office
- Near workroom/storage

ENVIRONMENTAL CONSIDERATIONS:

N/A

350 SF

CAPACITY:
SIZE:N/A
250 - 350 SF**NOTES:**

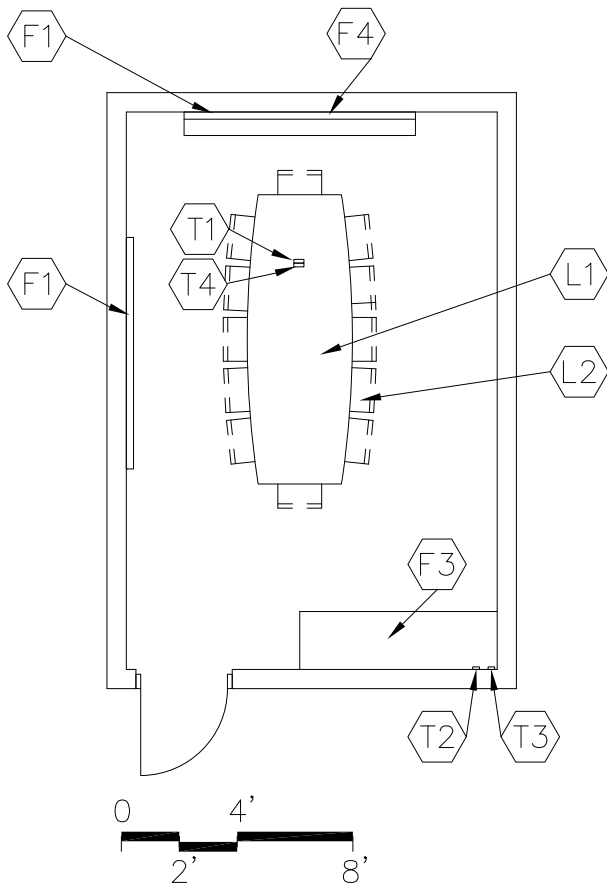
A/V STORAGE
CT-MC-5

CHAPTER 6: CAREER-TECHNICAL SCHOOL

		Spec.		Spec.
		Ref.#		Ref.#
<u>FINISHES¹:</u>			<u>FEATURES¹:</u>	
Flooring:			<u>Fixed Items³:</u>	
Rubber		096500	F1 8' – 26' of open shelving,	
			depths may vary (fixed or loose)	123550
Base:			Option: mobile storage shelving	105626
Resilient base		096500		
Ceiling:			<u>Fire Suppression:</u>	
Suspended, acoustical		095113	Fire suppression system	211000
Walls:			<u>Plumbing:</u>	
Painted concrete masonry units			N/A	
		042000/099100	<u>HVAC:</u>	
			To be determined by Design Professional	
<u>LOOSE FURNISHINGS:</u>			<u>Electrical:</u>	
L1 Desk and chair			Single level switching	262726
Wastebasket			Fluorescent lighting	265100
			Illumination level: See Table 8600-5	
			4 duplex receptacles (minimum)	262726
			<u>Communications:</u>	
			T1 1 voice port and phone	271513/273123
			T2 1 data port near workstation	271513
			Central sound system	275123
			<u>Electronic Safety and Security:</u>	
			N/A	
			<u>Miscellaneous:</u>	
			N/A	

NOTES:

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



CAPACITY: 8 - 12 persons
 SIZE: 250 SF

PROGRAM ACTIVITIES:

- Used primarily by students for group projects

SPATIAL RELATIONSHIPS:

- Near reading room/circulation

ENVIRONMENTAL CONSIDERATIONS:

- 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
CT-MC-6

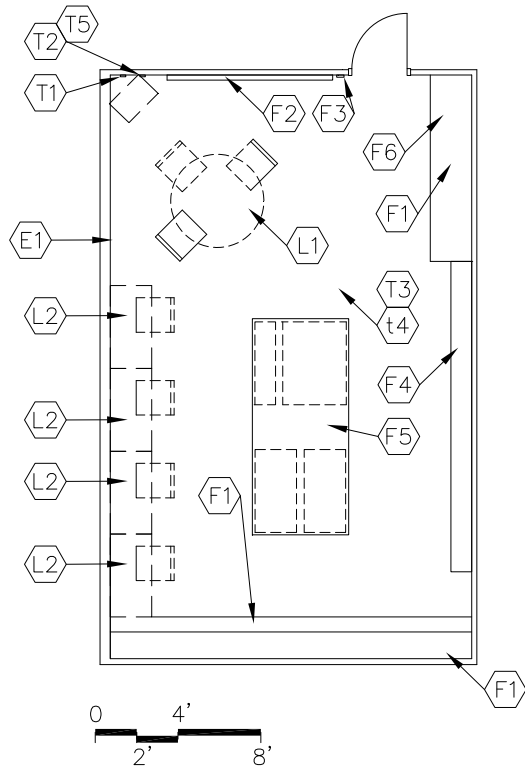
CHAPTER 6: CAREER-TECHNICAL SCHOOL

		Spec.			Spec.
<u>FINISHES¹:</u>		<u>Ref.#</u>	<u>FEATURES¹:</u>		<u>Ref.#</u>
Flooring:			<u>Fixed Items²:</u>		
Carpet or Carpet Tile		096816	F1 14'-18' combination marker board,		101100
		096813	tack board and tackable wall surface		
Base:			F2 Reserved		
Resilient base		096500	F3 4'-6' of base cabinets (optional)		123550
			(fixed or mobile)		
Ceiling:			F4 Projection screen (optional)		115213
Suspended, acoustical		095113			
Walls:			<u>Fire Suppression:</u>		
Painted concrete masonry units			Fire suppression system		211000
		042000/099100			
<u>LOOSE FURNISHINGS:</u>			<u>Plumbing:</u>		
L1 Conference table			N/A		
L2 Chairs					
Wastebasket					
			<u>HVAC:</u>		
			Supply/return air system		Div. 23
			Independent temperature control		230923
			<u>Electrical:</u>		
			Multilevel switching		262726
			Fluorescent lighting		265100
			Illumination level: See Table 8600-5		
			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.

500 SF

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

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Near workroom/storage
- Near media center

ENVIRONMENTAL CONSIDERATIONS:

- 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.

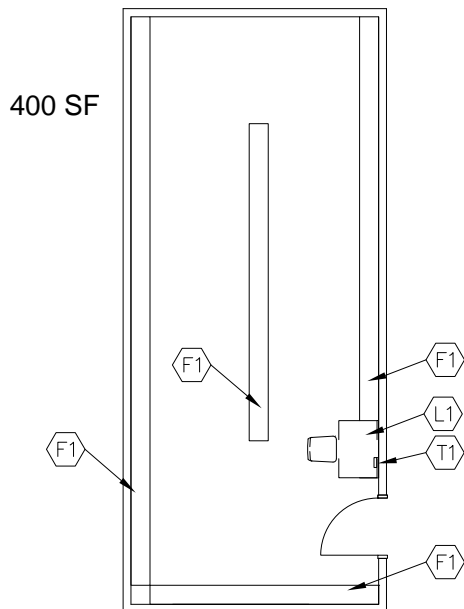
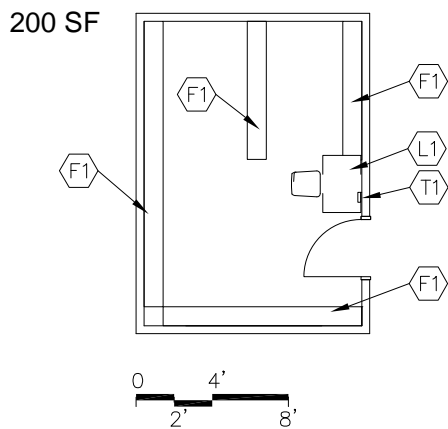
MULTIMEDIA PRODUCTION ROOM
CT-MC-7

CHAPTER 6: CAREER-TECHNICAL 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)		Fluorescent lighting	265100
081113/088000		Illumination level: See Table 8600-5	
The following items to be provided by the		4 duplex receptacles	262726
school district:		Double duplex receptacle adjacent	
Copier, scanner, printers, binders,		to each data and video port	262726
laminators		<u>Communications:</u>	
E1 Duplex receptacle with dedicated		T1 1 projector video port and video display	
circuit for wireless devices		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.**



CAPACITY: N/A
 SIZE: 200 - **500** SF

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Near reading room/circulation

ENVIRONMENTAL CONSIDERATIONS:

N/A

NOTES:

- Loose furnishings shown represent one of many possible arrangements.

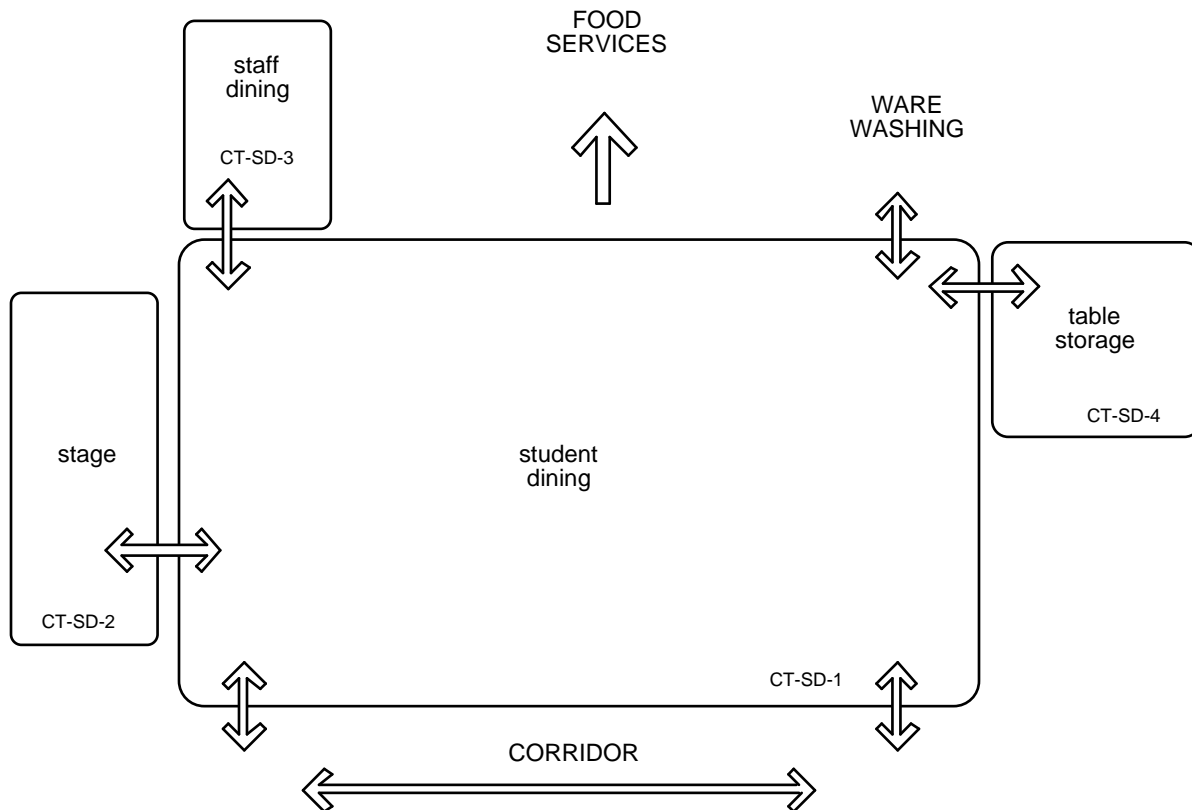
DOCUMENT STORAGE
CT-MC-8

CHAPTER 6: CAREER-TECHNICAL SCHOOL

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

NOTES:

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

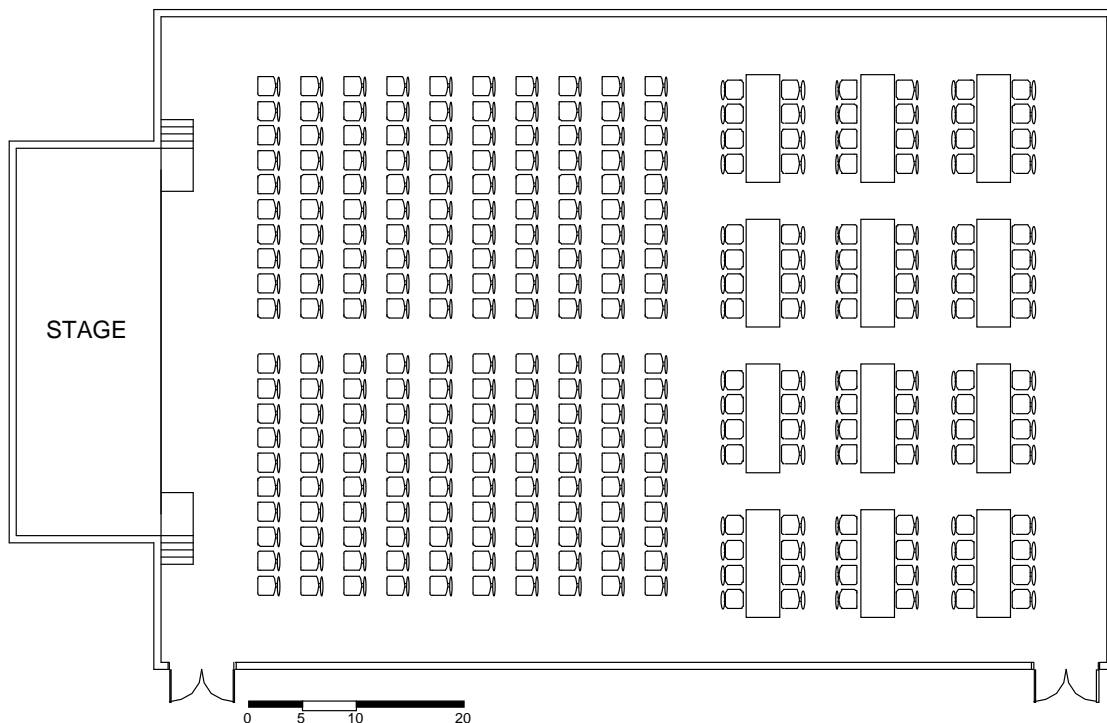
**NOTE:**

This is an example of how the student dining spaces in a career-technical 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:

- CT-SD-1 Student Dining
- CT-SD-2 Stage
- CT-SD-3 Staff Dining
- CT-SD-4 Table Storage
- CT-SD-5 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, CT-FS-1
 Stage, CT-SD-2
 Staff Dining, CT-SD-3
 Table Storage, CT-SD-4

PROGRAM ACTIVITIES:

- Student dining
- Large group instruction, meetings and banquets
- Special activities
- Refreshment area for school activities

SPATIAL RELATIONSHIPS:

- Adjacent to kitchen

ENVIRONMENTAL CONSIDERATIONS:

- Uniform non-glare lighting
- Environmental sound control - walls and ceiling to be designed for auditorium-type acoustics sound system
- Flexibility of space
- Access capability
- Environmental sound control wall minimum **STC 60**

NOTES:

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

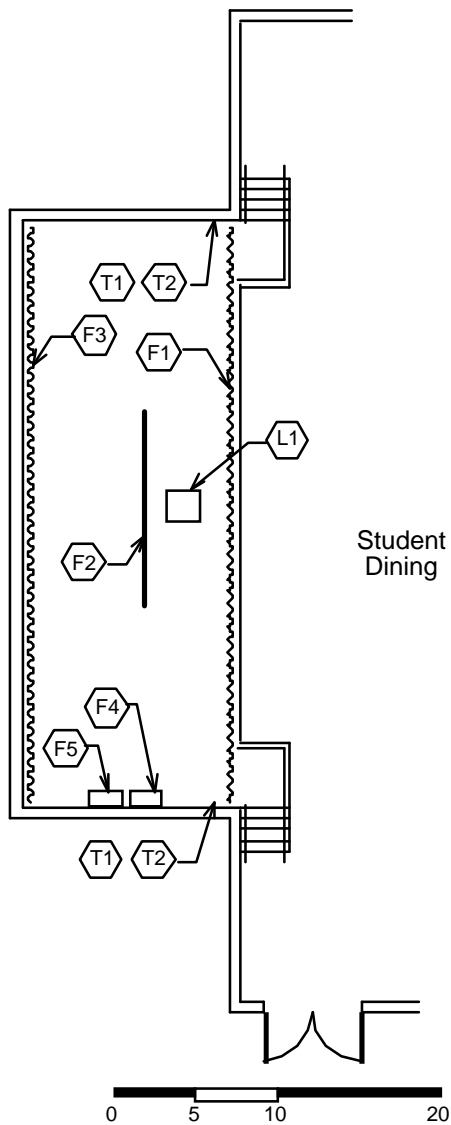
STUDENT DINING
CT-SD-1

CHAPTER 6: CAREER-TECHNICAL SCHOOL

		Spec.			Spec.
		Ref.#			Ref.#
<u>FINISHES¹:</u>			<u>FEATURES¹:</u>		
Flooring:			<u>Fixed Items:</u>		
Linoleum, rubber, ET,	096500		N/A		
sheet vinyl, porcelain tile,	096516				
resinous flooring	033519		<u>Fire Suppression:</u>		
polished concrete finishing,	033510		Fire suppression system		211000
or colored concrete finishing	096723				
Base:			<u>Plumbing:</u>		
Resilient base	096500		N/A		
Option: Porcelain tile base	093000		<u>HVAC:</u>		
Ceiling ³ :			Supply/return air system		Div. 23
Suspended, acoustical	095113		Independent temperature control		230923
Painted exposed structure	099100				
Reflector panels	098000		<u>Electrical:</u>		
Walls:			High intensity discharge lighting		265100
Painted concrete masonry units			or fluorescent lighting		
	042000/099100		Dimmable quartz lighting		265100
Diffusing block on 2 walls			Illumination level: see table 8600-6		
(minimum) or	042000		Multilevel switching with dimming		262726
Acoustic treatment	098000		6 duplex receptacles		262726
(varies with geometry of room)			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>LOOSE FURNISHINGS:</u>			<u>Communications:</u>		
L1 Tables			T1 2 voice ports		271513/273123
L2 Folding or high-density stack chairs			T2 2 projector video ports		271543
for large assembly use			T3 2 data ports (minimum)		271513
Waste receptacles			Clocks		275313
Recycling bins			Central sound system		275123
Carts for chairs			Student dining/auditeria sound system		275121
			T4 Ultra-short throw interactive projector		274119
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>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. Other types of ceiling may be appropriate based on the actual facility design. High ceilings are appropriate for auditorium-type of acoustics.
3. Ceiling height to be 18'0" AFF minimum.



PROGRAM ACTIVITIES:

- Presentations

SPATIAL RELATIONSHIPS:

- Adjacent to student dining
- Near food services

ENVIRONMENTAL CONSIDERATIONS:

- Access capability
- Sound system

CAPACITY: N/A
 SIZE: student capacity multiplied by 1.5 SF or
 800 SF, whichever is larger

ANCILLARY SPACES:
 Student Dining, CT-SD-1

NOTES:

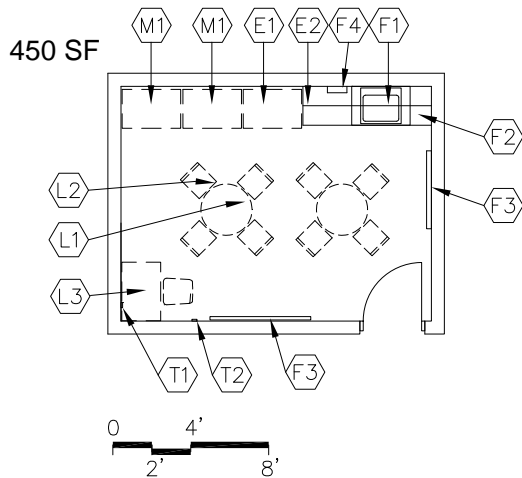
**STAGE
CT-SD-2**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

		Spec. Ref.#			Spec. Ref.#
<u>FINISHES¹:</u>			<u>FEATURES¹:</u>		
Flooring:			<u>Fixed Items:</u>		
Stage: Softwood or combination	096400		F1 Front curtain, track, and valance		116143
hardwood and softwood			F2 Projection screen		116143
Stairs: Carpet, rubber, wood,	096816		F3 Rear curtain		116143
or carpet tile	096813		F4 Sound control console		275121
			F5 Lighting control console		265100
Base:			<u>Fire Suppression:</u>		
Ventilated resilient base	096400		Fire suppression system		211000
Ceiling:			<u>Plumbing:</u>		
Painted exposed structure	099100		N/A		
Walls:			<u>HVAC:</u>		
Painted concrete masonry units	042000/099100		Supply/return air system	Div. 23	
			Independent temperature control	230923	
<u>LOOSE FURNISHINGS:</u>			<u>Electrical:</u>		
L1 Podium			Fluorescent lighting:	265100	
			Illumination level: See Table 8600-6		
			Single level switching	262726	
			6 duplex receptacles	262726	
			Double duplex receptacle adjacent to		
			each data and video port	262726	
			Emergency lighting per code	265100	
			Means of egress lighting per code	265100	
			Telecommunications Grounding	270526/260526	
			<u>Communications:</u>		
			T1 2 projector video ports	271543	
			T2 2 data ports	271513	
			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.



PROGRAM ACTIVITIES:

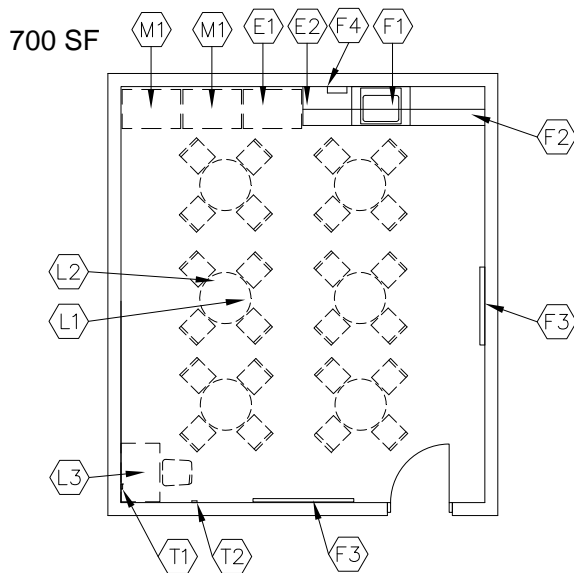
- Space for staff dining

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

CT-SD-1

NOTES:

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

STAFF DINING
CT-SD-3

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Linoleum, rubber, ET,	096500	F1 3' sink base cabinet with wall cabinet	123550
sheet vinyl, porcelain tile,	096516	F2 About 8' of base and wall cabinets	123550
or resinous flooring	093000	F3 8'-10' combination marker board,	101100
	096723	tack board, tackable wall surface	
		F4 Towel dispenser	102813
Base:		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Optional: porcelain tile base	093000		
Ceiling:		<u>Plumbing:</u>	
Suspended, acoustical	095113	Sink	224000
		Plumbing connections	224000/221116/221119
Walls:		<u>HVAC:</u>	
Painted, concrete masonry units	042000/099100	Supply/return air system	Div. 23
		Independent temperature control	230923
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
L1 Tables		Single level switching	262726
L2 Chairs		Fluorescent lighting	265100
L3 Computer workstation		Illumination level: See Table 8600-6	
Waste receptacle		4 duplex receptacles	262726
<u>EQUIPMENT:</u>		Double duplex receptacle adjacent to	
E1 Refrigerator		each video port	262726
E2 Microwave		Receptacles for vending machines,	
		refrigerator, and microwave	262726
		<u>Communications:</u>	
		T1 1 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	

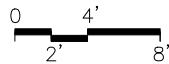
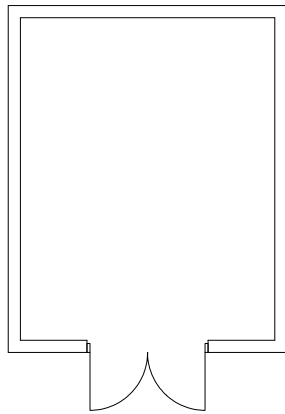
NOTES:

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

**TABLE STORAGE
CT-SD-4**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

400 SF



PROGRAM ACTIVITIES:

- Storage for tables and chairs

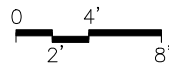
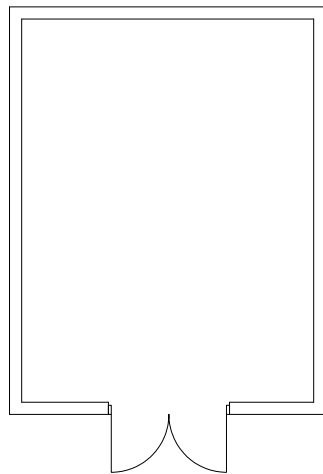
SPATIAL RELATIONSHIPS:

- Adjacent to student dining
- Near food services

ENVIRONMENTAL CONSIDERATIONS:

N/A

550 SF



CAPACITY:

SIZE:

ANCILLARY SPACES:

N/A

400 - **700** SF

Student Dining

CT-SD-1

NOTES:

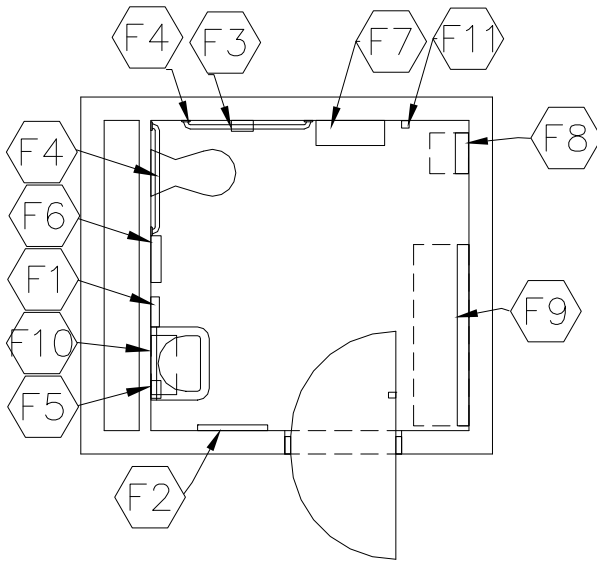
TABLE STORAGE
CT-SD-4

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	<u>Spec.</u> <u>Ref.#</u>	<u>FEATURES¹:</u>	<u>Spec.</u> <u>Ref.#</u>
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		
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>	
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.

**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:
SIZE:

2 people
80 SF

NOTES:

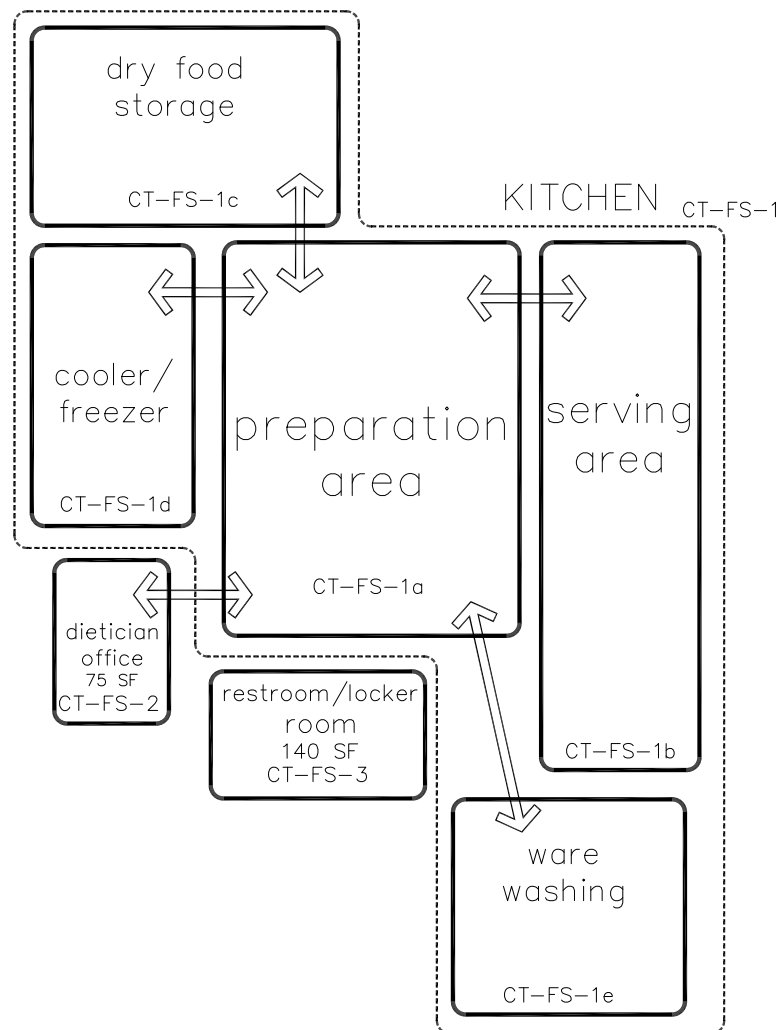
FAMILY RESTROOM
CT-SD-5

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
ET or sheet vinyl	096516	F1 Towel dispenser	102813
	096500	F2 24" x 60" mirror	102813
Optional: Ceramic mosaic tile,	093000	F3 Toilet tissue holder	102813
porcelain tile, or	096723	F4 36" and 42" grab bar	102813
resinous flooring		F5 Soap dispenser	102813
		F6 Sanitary napkin dispenser/disposal	102813
Base:		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>	
Ceiling:		Fire suppression system	211000
Suspended, acoustical	095113	<u>Plumbing:</u>	
		Wall-mounted water closet	224000
Walls:		Wall-mounted lavatory	224000
Painted concrete masonry units	042000/099100	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.



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:

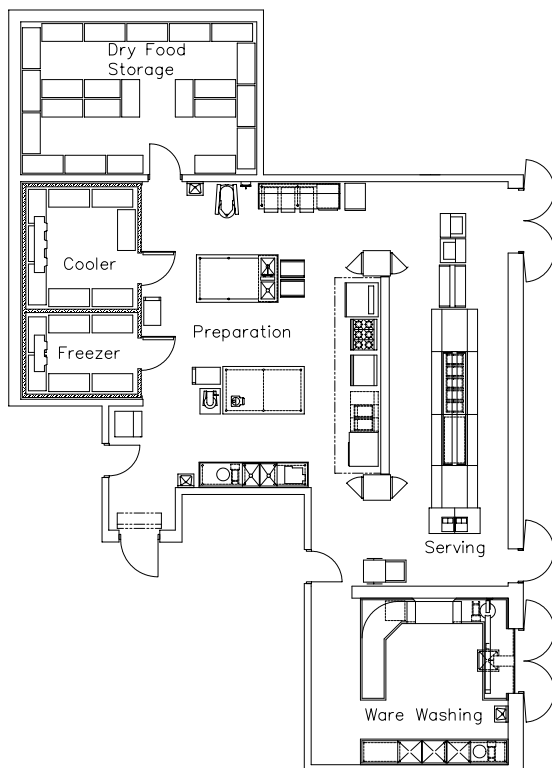
CT-FS-0	Warming Kitchen
CT-FS-1	Kitchen
CT-FS-1a	Preparation Area
CT-FS-1b	Serving Area
CT-FS-1c	Dry Food Storage
CT-FS-1d	Cooler/Freezer
CT-FS-1e	Ware Washing
CT-FS-2	Custodial Closet
CT-FS-3	Dietician Office
CT-FS-4	Restroom/Locker Room

KITCHEN CT-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
CT-SD-1
Loading/Receiving Area
CT-GS-7

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.

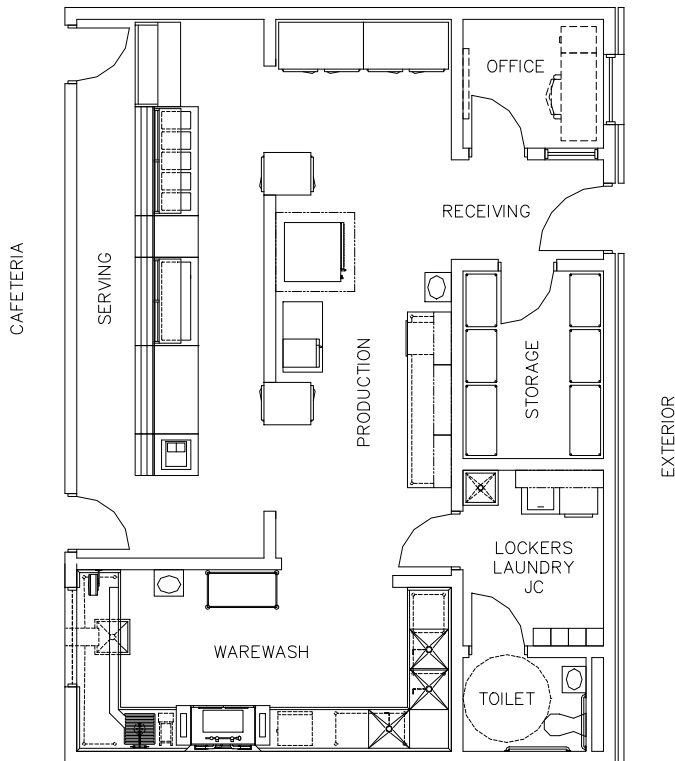
CHAPTER 6: CAREER-TECHNICAL SCHOOL

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



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

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

- Compliance with State Board of Health requirements

MISCELLANEOUS:

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

NOTES:

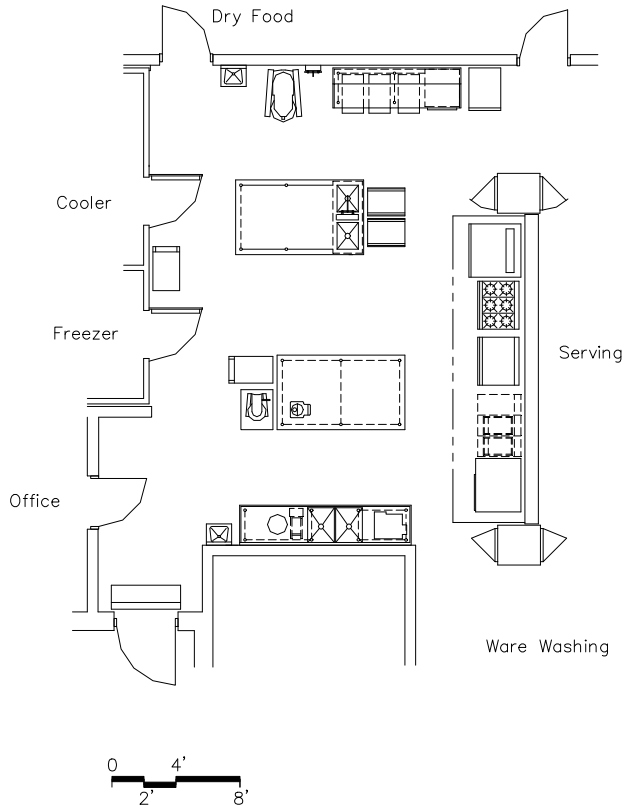
WARMING KITCHEN
CT-FS-0

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Quarry tile <i>or</i> <i>resinous flooring</i>	093000 096723	Food service equipment	114000
Base:		<u>Fire Suppression:</u>	
Quarry tile base <i>or integral base</i>	093000	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Cleanable, suspended, acoustical	095113	Connections to food service eqpt.	224000
Walls:		Plumbing connections	224000/221116/221119
Epoxy-painted concrete masonry units	042000/099100	Hand washing lavatory	224000
Option: Ceramic wall tile or	093000	Gas connections	226313
latex paint	099100	<u>HVAC:</u>	
<u>LOOSE FURNISHINGS:</u>		Supply/return air system	Div. 23
N/A		Independent temperature control	230923
		Kitchen canopy exhaust system	233800
		<u>Electrical:</u>	
		Dual level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-6	
		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.

**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

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

NOTES:

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

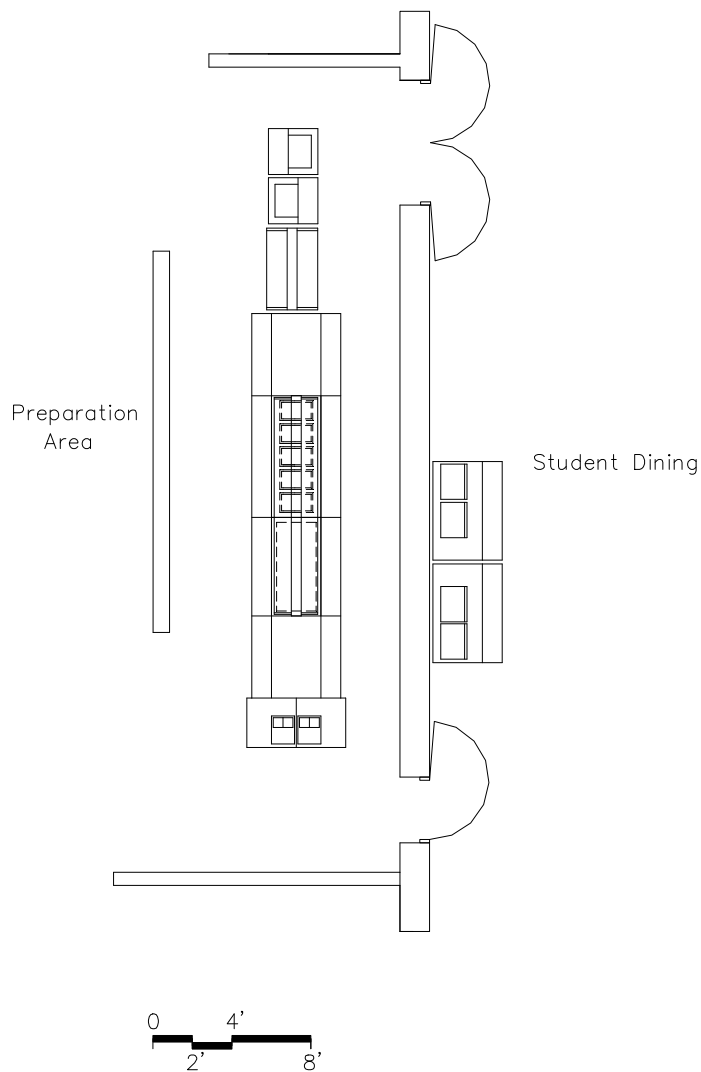
KITCHEN - Preparation Area
CT-FS-1a

CHAPTER 6: CAREER-TECHNICAL SCHOOL

		Spec. Ref.#			Spec. Ref.#
<u>FINISHES¹:</u>			<u>FEATURES¹:</u>		
Flooring:			<u>Fixed Items:</u>		
Quarry tile or		093000	Food service equipment		114000
resinous flooring		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	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.



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

PROGRAM ACTIVITIES:

- Space for serving of food

SPATIAL RELATIONSHIPS:

- Adjacent to student dining
- Adjacent to preparation area

ENVIRONMENTAL CONSIDERATIONS:

- Cleanable building services

NOTES:

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

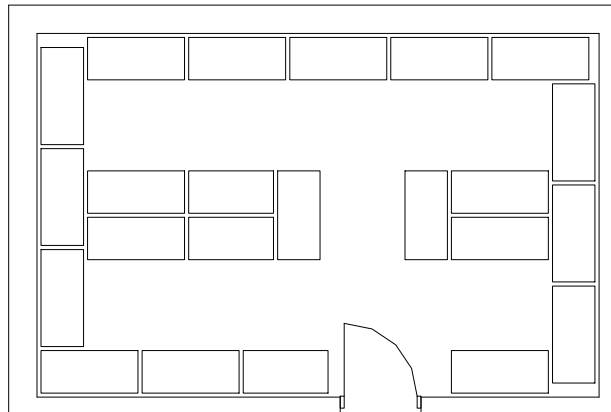
KITCHEN - Serving Area
CT-FS-1b

CHAPTER 6: CAREER-TECHNICAL SCHOOL

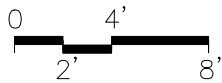
<u>FINISHES¹:</u>		Spec. Ref.#	<u>FEATURES¹:</u>		Spec. Ref.#
Flooring:			Fixed Equipment:		
Quarry tile		093000	Food service equipment		114000
Optional: porcelain tile or resinous flooring		096723	<u>Fire Suppression:</u>		
			Fire suppression system		211000
Base:			<u>Plumbing:</u>		
Quarry tile base		093000	Connections to food service equipment		224000
Optional: porcelain tile base or integral base			<u>HVAC:</u>		
Ceiling:			Supply/return air system		Div. 23
Cleanable, suspended, acoustical		095113	<u>Electrical:</u>		
Walls:			Dual level switching		262726
Epoxy-painted concrete masonry units		042000/099100	Fluorescent lighting		265100
Ceramic wall tile		093000	Illumination level: See Table 8600-6		
or latex paint		099100	4 duplex receptacles		262726
<u>LOOSE FURNISHINGS:</u>			Connections to food service equipment		262726
N/A			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.



Preparation Area

**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

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

NOTES:

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

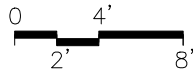
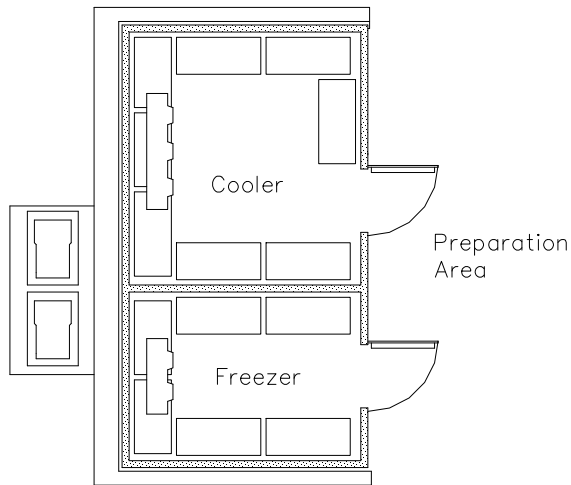
KITCHEN - Dry Food Storage
CT-FS-1c

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
	Spec. Ref.#		Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Linoleum, ET, or sheet vinyl	096500	Food service equipment	114000
Option: Quarry tile or	093000		
resinous flooring	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.

**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.

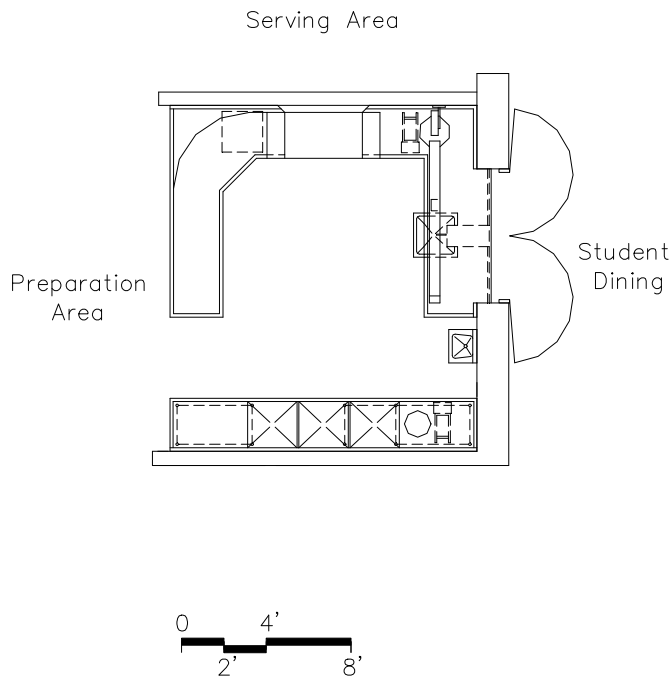
**KITCHEN - Cooler/Freezer
CT-FS-1d**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

		Spec. Ref.#			Spec. Ref.#
<u>FINISHES¹:</u>			<u>FEATURES¹:</u>		
Flooring:			<u>Fixed Items:</u>		
Quarry tile or		093000	Food service equipment		114000
resinous flooring		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.

**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.

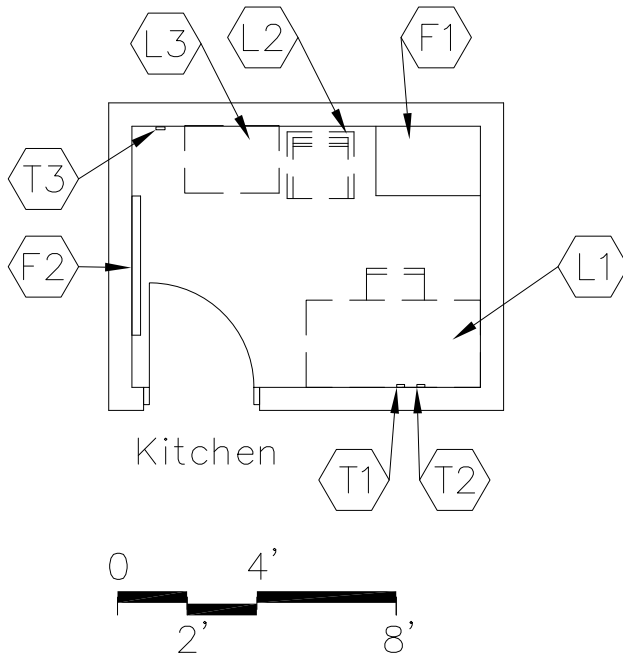
KITCHEN - Ware Washing
CT-FS-1e

CHAPTER 6: CAREER-TECHNICAL 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	Lavatory		224000
Walls:			Connections to food service equipment		224000
Epoxy-painted concrete masonry units			<u>HVAC:</u>		
		042000 /099100	Supply/return air system		Div. 23
Option: Ceramic wall tile		093000	Independent temperature control		230923
or latex paint		099100	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.



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

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

NOTES:

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

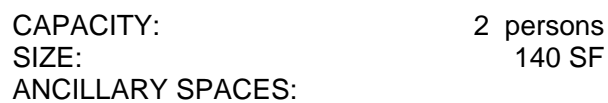
DIETICIAN'S OFFICE
CT-FS-2

CHAPTER 6: CAREER-TECHNICAL SCHOOL

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<u>Fixed Items:</u>	
Linoleum, ET, or sheet vinyl	096500	F1 Tall wardrobe (optional)	123550
	096516	F2 4' of tack board	101100
Option: Quarry tile, or	093000		
resinous flooring	096723	<u>Fire Suppression:</u>	
		Fire suppression system	211000
Base:		<u>Plumbing:</u>	
Resilient base	096500	N/A	
Option: Quarry tile	093000		
Ceiling:		<u>HVAC:</u>	
Suspended, acoustical	095113	Supply/return air system	Div. 23
		Independent temperature control	230923
Walls:		(coupled with similarly loaded	
Painted concrete masonry units	042000/099100	adjacent spaces)	
		<u>Electrical:</u>	
<u>LOOSE FURNISHINGS:</u>		Single level switching	262726
L1 Desk and chair		Fluorescent lighting	265100
L2 Visitor chair		Illumination level: See Table 8600-6	
L3 File cabinet		4 duplex receptacles	262726
Wastebasket		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>	
		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.



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

2011

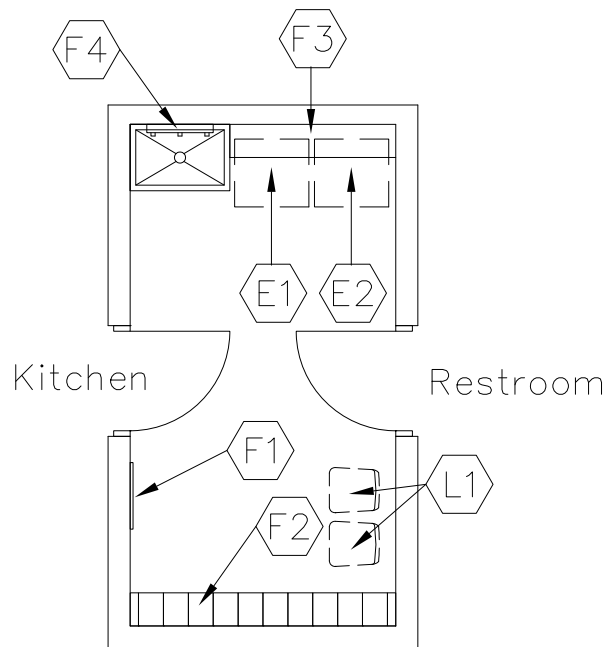
RESTROOM / LOCKER ROOM
CT-FS-3

CHAPTER 6: CAREER-TECHNICAL SCHOOL

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

NOTES:

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



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

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Adjacent to kitchen
- Adjacent to restroom

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

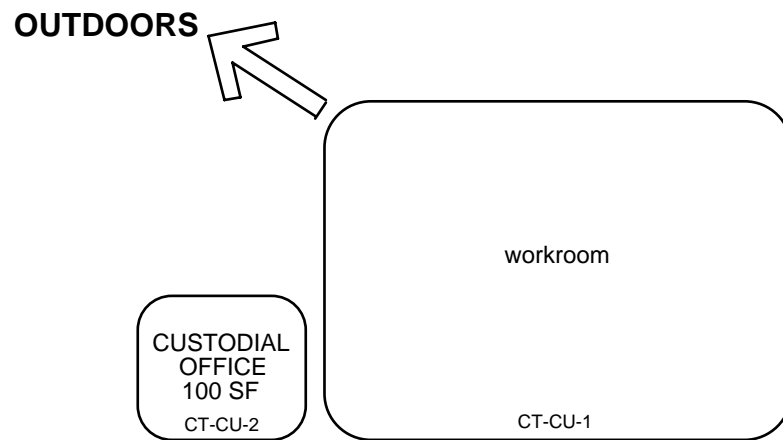
LOCKER ROOM
CT-FS-4

CHAPTER 6: CAREER-TECHNICAL SCHOOL

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

NOTES:

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

**NOTES:**

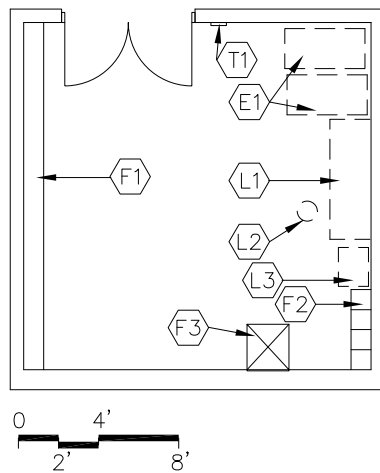
This is an example of how the custodial spaces in a career-technical school could be arranged. This is meant only to demonstrate the relationships between various spaces of this area.

Following are the Custodial space plates:

- CT-CU-1 Workroom
- CT-CU-2 Custodial Office

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200 SF

**PROGRAM ACTIVITIES:**

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

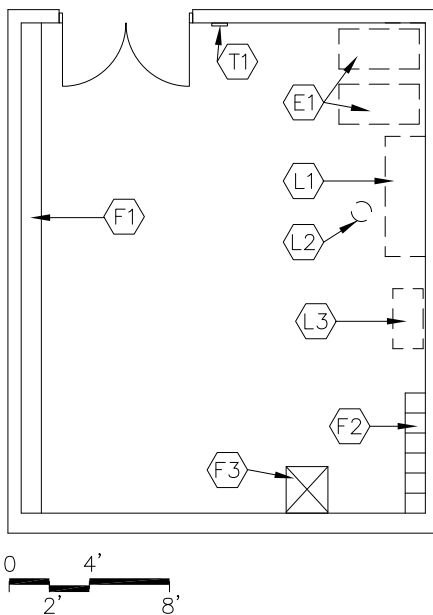
SPATIAL RELATIONSHIPS:

- Near central storage area
- Near custodial office

ENVIRONMENTAL CONSIDERATIONS:

N/A

400 SF

**CAPACITY:**

N/A

SIZE:200 - **800** SF**NOTES:**

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

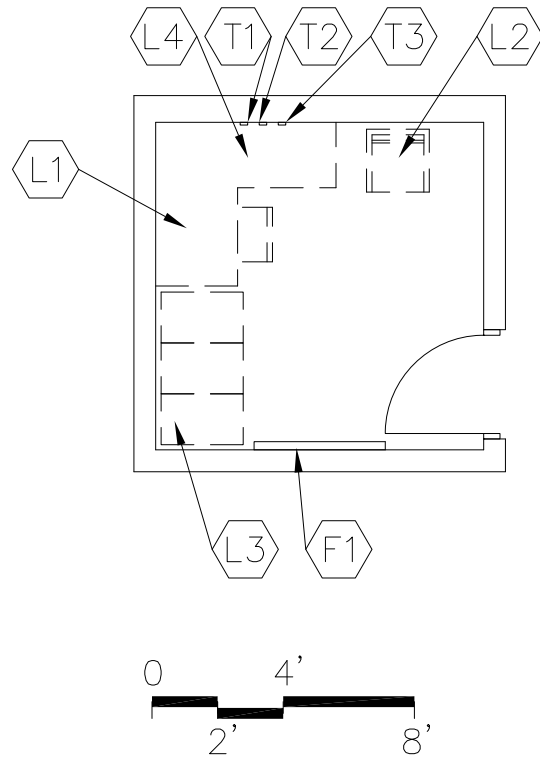
WORKROOM
CT-CU-1

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	Spec. <u>Ref.#</u>	<u>FEATURES¹:</u>	Spec. <u>Ref.#</u>
Flooring:		<u>Fixed Items²:</u>	
Polished concrete finishing, colored concrete finishing, or sealed concrete	033510 033519 093000	F1 10' - 24' of open shelving, depths can vary (fixed or loose)	123550
		F2 4 - 6 lockers	105113
		F3 Mop holder	102813
Base:		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Suspended, acoustical	095113	Floor service sink	224000
Walls:		<u>HVAC:</u>	
Painted concrete masonry units 042000/099100		Supply/return air system	Div. 23
		Independent temperature control	230923
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
L1 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
<u>EQUIPMENT:</u>		Electrical receptacles for custodial	
E1 Recycling bins		equipment	262726
		<u>Communications:</u>	
		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.



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:
SIZE:

N/A
100 - **400** SF

NOTES:

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

**CUSTODIAL OFFICE
CT-CU-2**

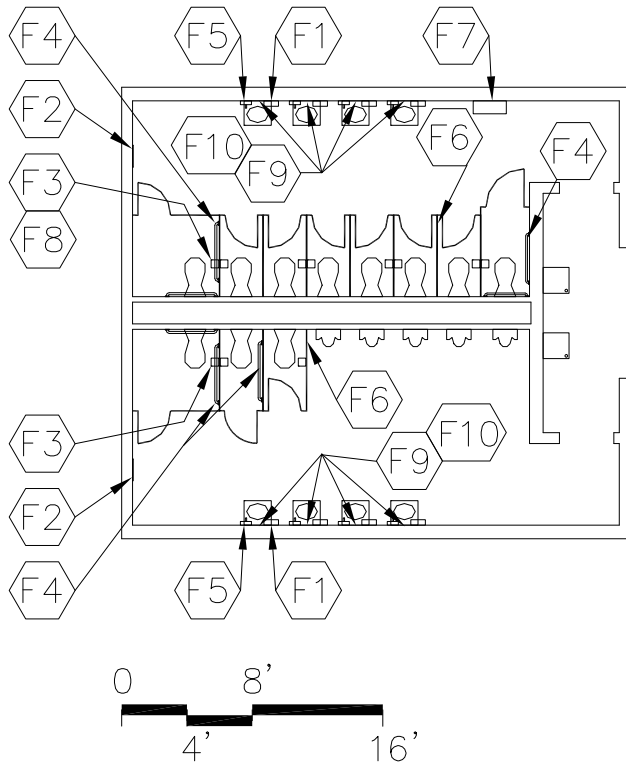
CHAPTER 6: CAREER-TECHNICAL SCHOOL

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

NOTES:

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

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



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

PROGRAM ACTIVITIES

- Personal and health needs for the general public
- Groups of restrooms should be located in several areas throughout the building

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

1. Where individual restrooms are provided in lieu of large group restrooms, refer to **CT-GS-8**.

LARGE GROUP RESTROOMS

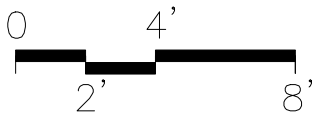
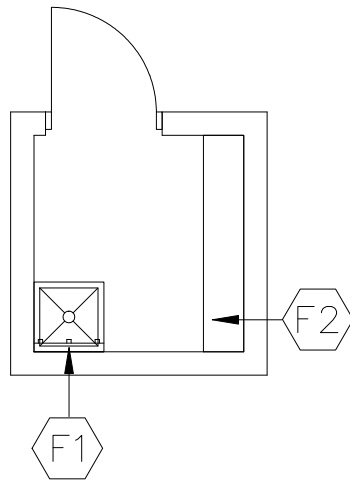
CT-GS-1

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Ceramic mosaic tile	093000	F1 Towel dispensers	102813
Optional: porcelain tile,	093000	F2 24" x 60" mirror	102813
rubber, resinous flooring, or	096723	F3 Toilet tissue holders	102813
<i>unbacked sheet vinyl with</i>	096500	F4 36" and 42" grab bar	102813
<i>welded seams</i>		F5 Soap dispensers	102813
		F6 Toilet partitions	102113
Base:		F7 Sanitary product dispenser	102813
Ceramic mosaic tile base	093000	F8 Sanitary product receptacles	102813
Optional: structural glazed tile,	096616	F9 16" x 24" mirrors with shelf (optional)	102813
porcelain tile base,	093000	F10 Shelves (optional)	123550
resinous flooring, or	096723		
<i>integral tile base</i>	096500	<u>Fire Suppression:</u>	
		Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Suspended, acoustical	095113	Wall-mounted water closets	224000
Option: Abuse resistant		Wall-mounted urinals	224000
gypsum wallboard	092116	Wall-mounted lavatories	224000
		or wash fountains	
Walls:		Wall hydrants	224000
Painted concrete masonry unit		Plumbing connections	
	042000/099100		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



CAPACITY:
SIZE:

N/A
50 SF

PROGRAM ACTIVITIES:

- Space for storage of custodial supplies throughout the building

SPATIAL RELATIONSHIPS:

- Near large group restrooms

ENVIRONMENTAL CONSIDERATIONS:

N/A

NOTES:

CUSTODIAL CLOSET
CT-GS-2

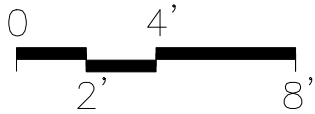
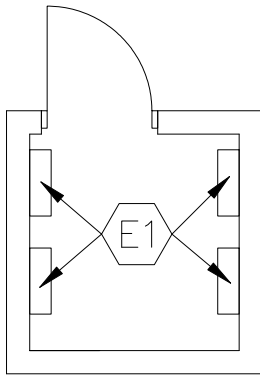
CHAPTER 6: CAREER-TECHNICAL SCHOOL

		Spec.			Spec.
		Ref.#			Ref.#
<u>FINISHES¹:</u>			<u>FEATURES¹:</u>		
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 8600-5		
			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.

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



CAPACITY:
SIZE:

N/A
50 SF

PROGRAM ACTIVITIES:

- Space for electrical wiring and panels

SPATIAL RELATIONSHIPS:

N/A

ENVIRONMENTAL CONSIDERATIONS:

N/A

NOTES:

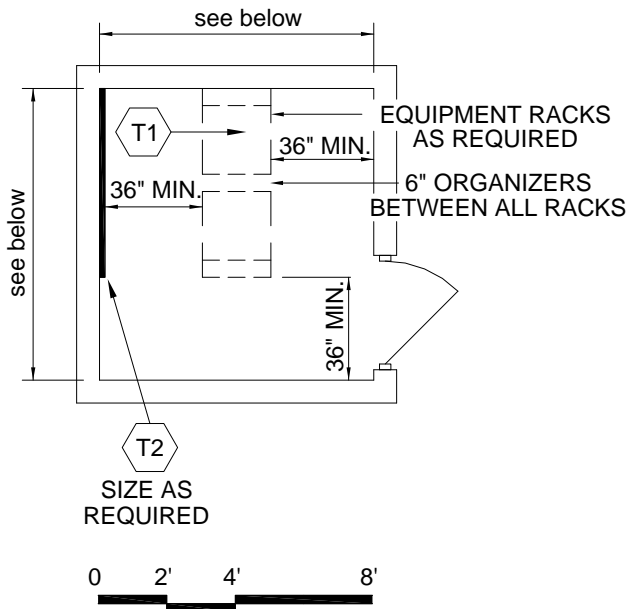
ELECTRICAL CLOSET
CT-GS-3

CHAPTER 6: CAREER-TECHNICAL SCHOOL

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

NOTES:

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



PROGRAM ACTIVITIES:

- Space for technology needs

SPATIAL RELATIONSHIPS:

N/A

ENVIRONMENTAL CONSIDERATIONS:

N/A

CAPACITY:

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.**

N/A

NOTES:

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

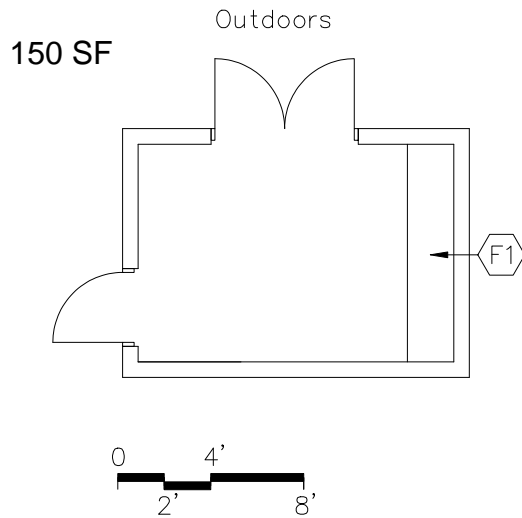
TELECOMMUNICATIONS ROOM
CT-GS-4

CHAPTER 6: CAREER-TECHNICAL 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>	
		Fire suppression system	211000
Base:		<u>Plumbing:</u>	
No base		N/A	
Ceiling:		<u>HVAC:</u>	
Exposed structure	---	Cooling and Exhaust air system	Div. 23
Walls:		<u>Electrical:</u>	
Unpainted concrete masonry units	042000	Single level switching	262726
<u>LOOSE FURNISHINGS</u>		Fluorescent lighting	265100
N/A		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.



PROGRAM ACTIVITIES:

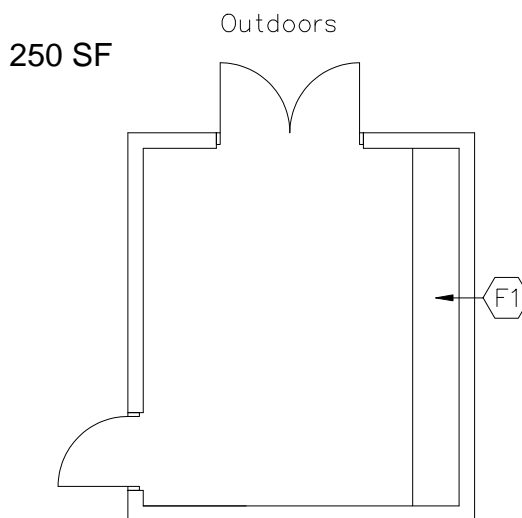
- Space for storage of outdoor custodial equipment

SPATIAL RELATIONSHIPS:

- Near custodial office
- Near custodial workroom
- Direct access to outdoors

ENVIRONMENTAL CONSIDERATIONS:

N/A

CAPACITY:
SIZE:N/A
150 - 500 SFNOTES:

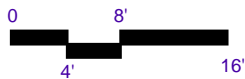
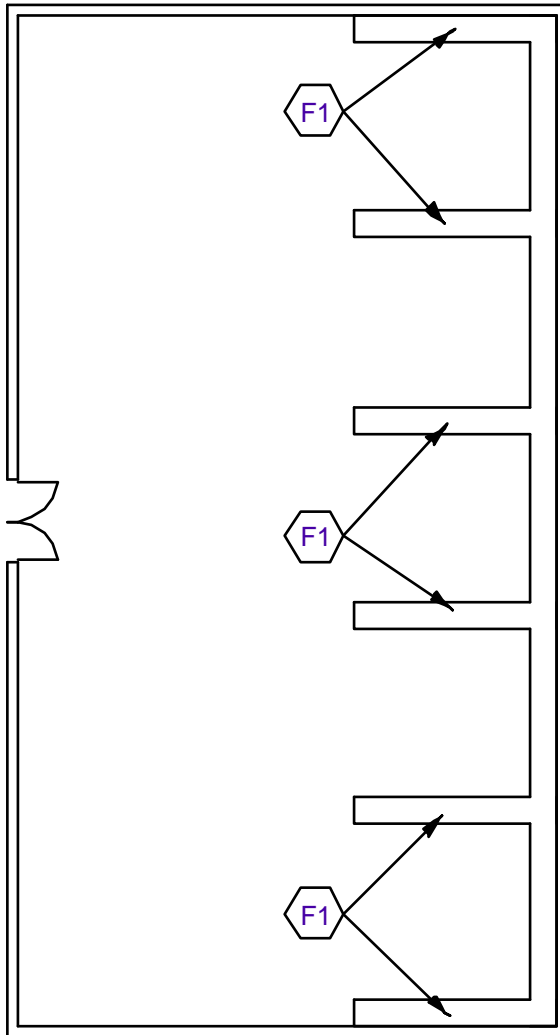
STORAGE AREA
CT-GS-5

CHAPTER 6: CAREER-TECHNICAL SCHOOL

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



CAPACITY: N/A
 SIZE: 1000 - 1667 SF

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

N/A

NOTES:

CENTRAL STORAGE / DISTRIBUTION AREA
CT-GS-6

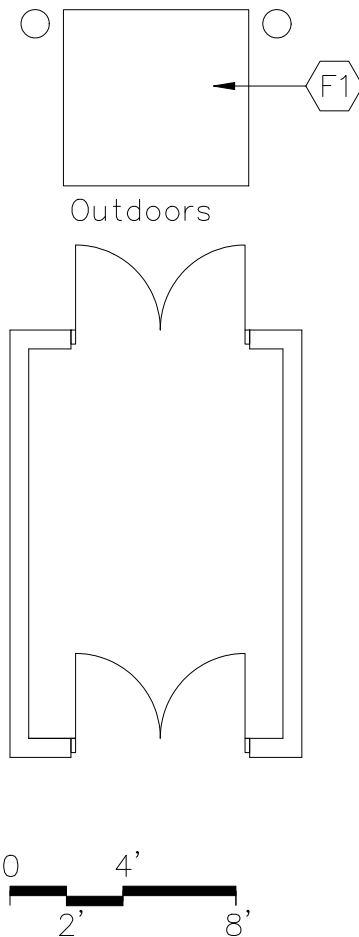
CHAPTER 6: CAREER-TECHNICAL SCHOOL

<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.

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:

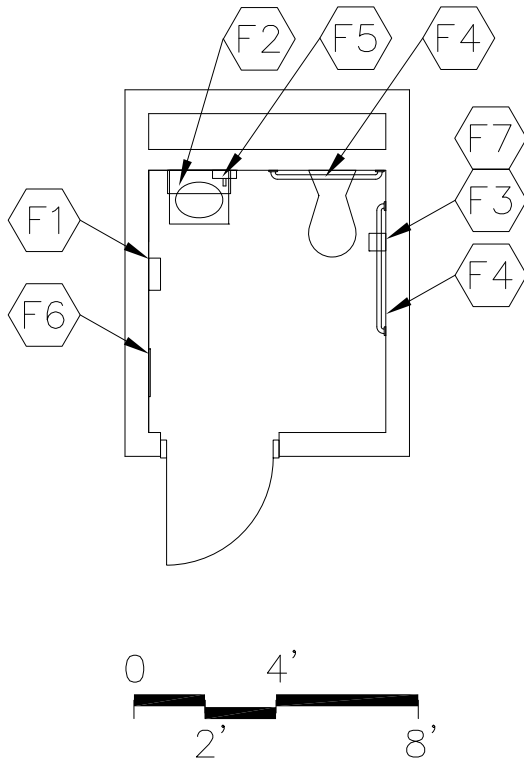
LOADING/RECEIVING AREA
CT-GS-7

CHAPTER 6: CAREER-TECHNICAL 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.



CAPACITY:
SIZE:
ANCILLARY SPACES:

1 person
60 SF

PROGRAM ACTIVITIES:

- Personal and health needs for the building occupants

SPATIAL RELATIONSHIPS:

- Near academic area

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

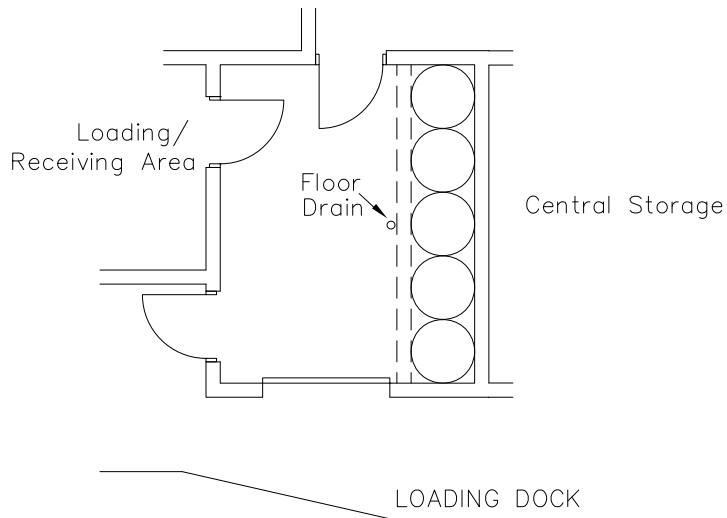
RESTROOM
CT-GS-8

CHAPTER 6: CAREER-TECHNICAL SCHOOL

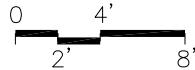
		Spec.			Spec.
		Ref.#			Ref.#
<u>FINISHES¹:</u>			<u>FEATURES¹:</u>		
Flooring:			<u>Fixed Items:</u>		
ET or sheet vinyl		096516	F1 Towel dispenser		102813
		096500	F2 Mirror with shelf above sink(optional)		102813
Optional: quarry tile, or		093000	F3 Toilet tissue holder		102813
resinous flooring		096723	F4 36" and 42" grab bar		102813
			F5 Soap dispenser		102813
Base:			F6 Sanitary product dispenser		102813
Resilient base		096500	F7 Sanitary product receptacle		102813
Optional: quarry tile, resinous		093000			
flooring, or integral vinyl cove base		096723	<u>Fire Suppression:</u>		
			Fire suppression system		211000
Ceiling:			<u>Plumbing:</u>		
Suspended, acoustical		095113	Wall-mounted water closet		224000
Walls:			Wall-mounted lavatory		224000
Painted concrete masonry units			Plumbing connections		
		042000/099100			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.



Direct access to loading dock, if possible



CAPACITY:
SIZE:

N/A
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
CT-GS-9

CHAPTER 6: CAREER-TECHNICAL SCHOOL

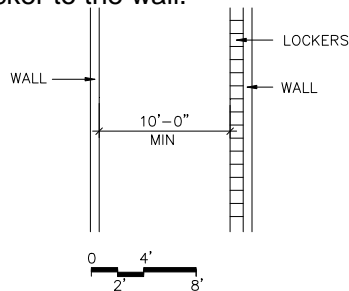
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Sealed concrete	033000	<u>Fire Suppression:</u>	
Base:		Fire suppression system	211000
No base		<u>Plumbing:</u>	
Ceiling:		Floor drain	
Exposed structure		<u>HVAC:</u>	
Walls:		Exhaust air system	Div. 23
Epoxy-painted 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:

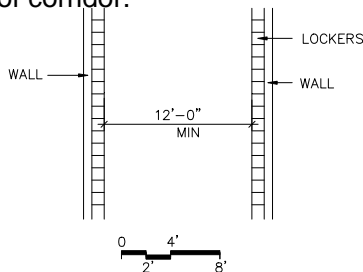
1. Finishes/Features: Refer to Chapter 9 for specification references.

CHAPTER 6: CAREER-TECHNICAL 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: See Chapter 2

PROGRAM ACTIVITIES:

- Circulation space

SPATIAL RELATIONSHIPS:

N/A

ENVIRONMENTAL CONSIDERATIONS:

N/A

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
CT-BS-1

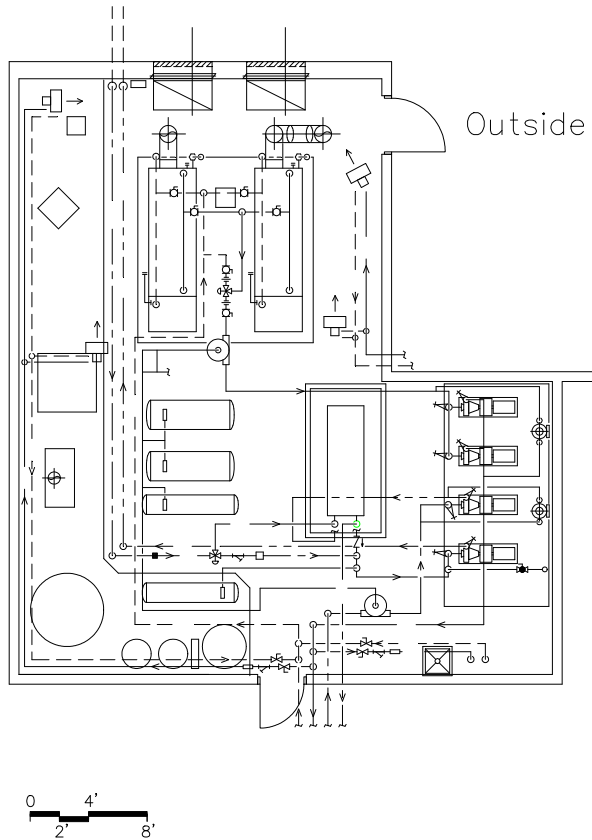
CHAPTER 6: CAREER-TECHNICAL SCHOOL

		Spec.		Spec.
		Ref.#		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	<u>Plumbing:</u>	
			Drinking water coolers	224000
Ceiling:			<u>HVAC:</u>	
Suspended, acoustical		095113	Supply/return air system	Div. 23
Option in vestibules: Abuse resistant			Temperature control from	
gypsum wallboard		092113	adjacent instructional spaces	230923
Walls:			<u>Electrical:</u>	
Painted concrete masonry units			Dual level switching	262726
		042000/099100	Fluorescent lighting	265100
<u>LOOSE FURNISHINGS:</u>			Illumination level: See Table 8600-6	
Recycling bins and waste receptacles			Duplex receptacles	262726
Fixed or loose benches			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			<u>Communications:</u>	
area, match dining/commons flooring.			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.

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



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

PROGRAM ACTIVITIES:

- Space for mechanical and electrical equipment

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

MECHANICAL/ELECTRICAL SPACE/DECKS
CT-BS-2

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Sealed concrete	033000	To be determined by Design Professional	
Base:		<u>Fire Suppression:</u>	
No base		To be determined by Design Professional	
Ceiling:		<u>Plumbing:</u>	
Exposed structure	---	To be determined by Design Professional	
Walls: (note 2)		<u>HVAC:</u>	
Unpainted concrete masonry units	042000	To be determined by Design Professional	
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
N/A		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600- 6	
		Others as determined by Design Professional	
		<u>Communications:</u>	
		Central sound system	275123
		Voice port and phone	271513/ 273123
		<u>Electronic Safety and Security:</u>	
		To be determined by Design Professional	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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