

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

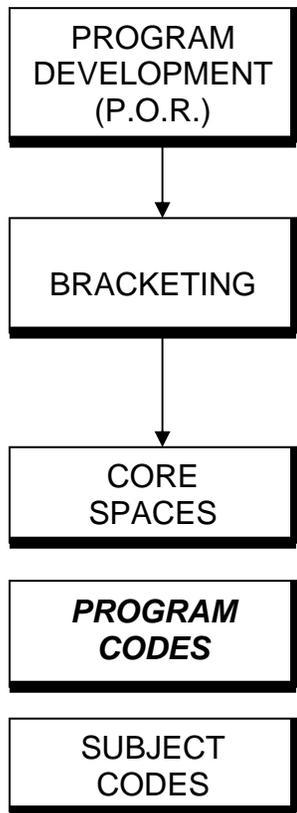
In order to accommodate school districts in meeting the unique requirements of it's Career-Technical students, the OSFC has provided spaces that accommodate instructional and support activities. The layout and organization of those spaces is critical to the educational success of the school. Therefore, 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

SUBJECT CODE	PROGRAM TYPE	CTE PROGRAM CODE	PROGRAM	PAGE NUMBER
14.0100	1	G0	Accounting	6311-7
14.0300	1	C0	Administrative and Professional Support	6311-8
01.0901	5	A0	<i>Agribusiness and Production</i>	6315-8
	7	TA	<i>Air Transportation</i>	6317-7
17.0401	7	T0	Aircraft Maintenance	6317-7
	2	JM	<i>Allied Health and Nursing</i>	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
17.0400	1	T4	Aviation Occupations	6311-10
	2	F0	<i>Bio medical Science</i>	6312-7
01.2000	2	A3	<i>Biotechnology for Food, Plant & Animal Sciences</i>	6312-8
17.1004	5	D0	Brick, Block and Cement Masonry	6315-10
17.1011	5	D1	Building & Property Maintenance	6315-11
17.1017	5	D2	Building Technology	6315-11
14.0800	1	C1	Business Management	6311-11
17.2810	4	P0	Career Paths for the Law Profession	6314-14
17.1001	6	D3	Carpentry	6316-16
07.1100	4	J1	Clinical Health Care Services	6314-17
07.0906	2	J2	Community Health Aide	6312-10
17.1805	6	D4	Construction - Design/Build	6316-19
17.1806	6	D5	Construction - Management	6316-19
	6	DF	<i>Construction Design and Management</i>	6316-21
17.2602	4	M1	Cosmetology	6314-20
17.2802	4	P1	Criminal Justice	6314-14
17.2815	2	P2	Criminal Science Technology	6312-8
33.0005	4	L0	Culinary and Food Service Operations	6314-26
17.1100	5	D6	Custodial Services	6315-12
07.0101	4	J3	Dental Assistant	6314-29
07.0103	2	J4	Dental Laboratory Technology	6312-11
07.4820	4	J5	Diagnostic Pathway	6314-32
35.0201	3	E0	Early Childhood Education	6313-7
17.1002	5	D7	Electrical Trades	6315-13
17.1503	1	R1	Electronics	6311-9
17.2811	2	P3	Emergency Medical Technician - Secondary	6312-12
17.1600	2	F1	Energy Science	6312-7
	2	F6	<i>Engineering and Design</i>	6312-7
	2	F2	<i>Engineering Science</i>	6312-7
17.1810	6	F3	<i>Engineering Technology</i>	6316-21
04.4110	3	S1	Entrepreneurship	6313-15
17.0100	5	D8	Environmental Control Technologies	6315-14
07.0410	2	J6	<i>Exercise Science and Sports Medicine</i>	6312-13
14.0110	1	G1	Financial Services	6311-12
17.2801	4	P4	Fire Fighter Training	6314-34
	4	P6	<i>Firefighting and Emergency Medical Services</i>	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
	6	T9	<i>Ground Transportation</i>	6316-12
07.4890	2	J7	<i>Health Information Management</i>	6312-15
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
07.0307	2	JA	Home Health	6312-10
01.0601	6	A5	Horticulture	6316-27
01.0201	6	A1	<i>Industrial Power Technology</i>	6316-7
14.0210	1	N0	Information Support & Services	6311-16
17.1012	5	R2	Integrated Systems Technology	6315-15
14.0240	1	N1	Interactive Media	6311-16
17.1005	5	DA	<i>Interior Design Applications</i>	6315-17
14.0310	1	C2	Legal Management and Support	6311-8
33.0010	3	L1	Lodging	6313-21
17.1300	5	R3	Manufacturing Design and Development	6315-18
	6	R7	<i>Manufacturing Operations</i>	6316-33
04.0800	3		Marketing	6313-39
04.0815	3	S3	Marketing Communications	6313-15
04.0810	3	S4	Marketing Management	6313-15
	6	DE	<i>Mechanical, Electrical and Plumbing</i>	6316-21
34.0015	4	B0	Media Arts	6314-36
07.0904	4	JB	Medical Assistant	6314-17
07.4850	2	J0	<i>Medical Bioscience</i>	6312-7
07.0203	2	JC	Medical Laboratory Technology	6312-8
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
07.0603	4	JE	Optometric Occupations	6314-39
07.0994	4	JF	Patient Care Technician	6314-41
34.0020	4	B1	Performing Arts	6314-44
07.0912	2	JG	Pharmacy Technician	6312-7
17.1007	5	DB	Plumbing & Pipefitting	6315-20
17.3100	5	T8	Power Equipment Technology	6315-21
17.1402	5	F4	Power Transmission	6315-22
07.0302	2	JJ	Practical Nursing	6312-16
17.2302	6	R5	Precision Machining	6312-33
17.2808	4	P5	Private Security	6314-14
14.0230	1	N3	Programming & Software Development	6311-16
	6	DD	<i>Structural Systems</i>	6316-21
04.1900	3	S0	Supply Chain Management	6313-15
07.0305	4	JK	Surgical Technology	6314-46
17.1504	1	F5	Telecommunications	6311-14
07.4830	2	JL	Therapeutic Pathway	6312-14
33.0020	1	L2	Travel and Tourism	6311-15
34.0005	1	B2	Visual Design and Imaging	6311-16
17.2306	5	R6	Welding & Cutting	6315-23
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.

INDEX BY CTE PROGRAM CODE

SUBJECT CODE	PROGRAM TYPE	CTE PROGRAM CODE	PROGRAM	PAGE NUMBER
01.0301	5	A0	<i>Agribusiness and Production</i>	6315-8
01.0201	6	A1	<i>Industrial Power Technology</i>	6316-7
01.0901	7	A2	Animal Science and Management (Equine)	6317-11
01.0901	4	A2	Animal Science and Management (small animal)	6314-7
01.2000	2	A3	<i>Biotechnology for Food, Plant & Animal Sciences</i>	6312-8
01.1001	6	A4	Food Science and Technology	6316-23
01.0601	6	A5	Horticulture	6316-27
01.0701	5	A6	Natural Resource Management	6315-19
34.0015	4	B0	Media Arts	6314-36
34.0020	4	B1	Performing Arts	6314-44
34.0005	1	B2	Visual Design and Imaging	6311-16
14.0300	1	C0	Administrative and Professional Support	6311-8
14.0800	1	C1	Business Management	6311-11
14.0310	1	C2	Legal Management and Support	6311-8
14.0320	1	C3	Medical Management and Support	6311-13
17.1004	5	D0	Brick, Block and Cement Masonry	6315-10
17.1011	5	D1	Building & Property Maintenance	6315-11
17.1017	5	D2	Building Technology	6315-11
17.1001	6	D3	Carpentry	6316-16
17.1805	6	D4	Construction - Design/Build	6316-19
17.1806	6	D5	Construction - Management	6316-19
17.1100	5	D6	Custodial Services	6315-12
17.1002	5	D7	Electrical Trades	6315-13
17.0100	5	D8	Environmental Control Technologies	6315-14
17.1003	5	D9	<i>Heavy Equipment Operations</i>	6315-15
17.1005	5	DA	<i>Interior Design Applications</i>	6315-17
17.1007	5	DB	Plumbing & Pipefitting	6315-20
17.3601	6	DC	Wood Product Technologies	6316-36
	6	DD	<i>Structural Systems</i>	6316-21
	6	DE	<i>Mechanical, Electrical and Plumbing</i>	6316-21
	6	DF	<i>Construction Design and Management</i>	6316-21
35.0201	3	E0	Early Childhood Education	6313-7
	2	F0	<i>Biomedical Science</i>	6312-7
17.1600	2	F1	Energy Science	6312-7
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17.1810	6	F3	<i>Engineering Technology</i>	6316-21
17.1402	5	F4	Power Transmission	6315-22
17.1504	1	F5	Telecommunications	6311-14
	2	F6	<i>Engineering and Design</i>	6312-7
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14.0110	1	G1	Financial Services	6311-12
07.4850	2	J0	<i>Medical Bioscience</i>	6312-7
07.1100	4	J1	Clinical Health Care Services	6314-17
07.0906	2	J2	Community Health Aide	6312-10
07.0101	4	J3	Dental Assistant	6314-29
07.0103	2	J4	Dental Laboratory Technology	6312-11
07.4820	4	J5	Diagnostic Pathway	6314-32
07.0410	2	J6	<i>Exercise Science and Sports Medicine</i>	6312-13
07.4890	2	J7	<i>Health Information Management</i>	6312-15
07.4840	2	J8	Health Support Pathway	6312-14

SUBJECT CODE	PROGRAM TYPE	CTE PROGRAM CODE	PROGRAM	PAGE NUMBER
07.0913	2	J9	Health Unit Coordinator	6312-15
07.0307	2	JA	Home Health	6312-10
07.0904	4	JB	Medical Assistant	6314-17
07.0203	2	JC	Medical Laboratory Technology	6312-8
07.0303	4	JD	Nurse Assisting	6314-17
07.0603	4	JE	Optometric Occupations	6314-39
07.0994	4	JF	Patient Care Technician	6314-41
07.0912	2	JG	Pharmacy Technician	6312-7
07.0302	2	JJ	Practical Nursing	6312-16
07.0305	4	JK	Surgical Technology	6314-46
07.4830	2	JL	Therapeutic Pathway	6312-14
	2	JM	Allied Health and Nursing	6312-16
33.0005	4	L0	Culinary and Food Service Operations	6314-26
33.0010	3	L1	Lodging	6313-21
33.0020	1	L2	Travel and Tourism	6311-15
17.2602	4	M1	Cosmetology	6314-20
14.0210	1	N0	Information Support & Services	6311-16
14.0240	1	N1	Interactive Media	6311-16
14.0220	1	N2	Network Systems	6311-16
14.0230	1	N3	Programming & Software Development	6311-16
17.2810	4	P0	Career Paths for the Law Profession	6314-14
17.2802	4	P1	Criminal Justice	6314-14
17.2815	2	P2	Criminal Science Technology	6312-8
17.2811	2	P3	Emergency Medical Technician - Secondary	6312-12
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INDEX BY PROGRAM TYPE

CHAPTER 6: CAREER-TECHNICAL SCHOOL

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14.0300	1	C0	Administrative and Professional Support	6311-8
14.0800	1	C1	Business Management	6311-11
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17.1600	2	F1	Energy Science	6312-7
	2	F2	Engineering Science	6312-7
	2	F6	Engineering and Design	6312-7
07.4850	2	J0	Medical Bioscience	6312-7
07.0906	2	J2	Community Health Aide	6312-10
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07.0307	2	JA	Home Health	6312-10
07.0203	2	JC	Medical Laboratory Technology	6312-8
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17.2810	4	P0	Career Paths for the Law Profession	6314-14
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01.0701	5	A6	Natural Resource Management	6315-19
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01.0901	7	A2	Animal Science and Management (Equine)	6317-11
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** Subject Codes as Program Identifiers are being phased out. New programs are no longer associated with a Subject Code.

INDEX BY SUBJECT CODE

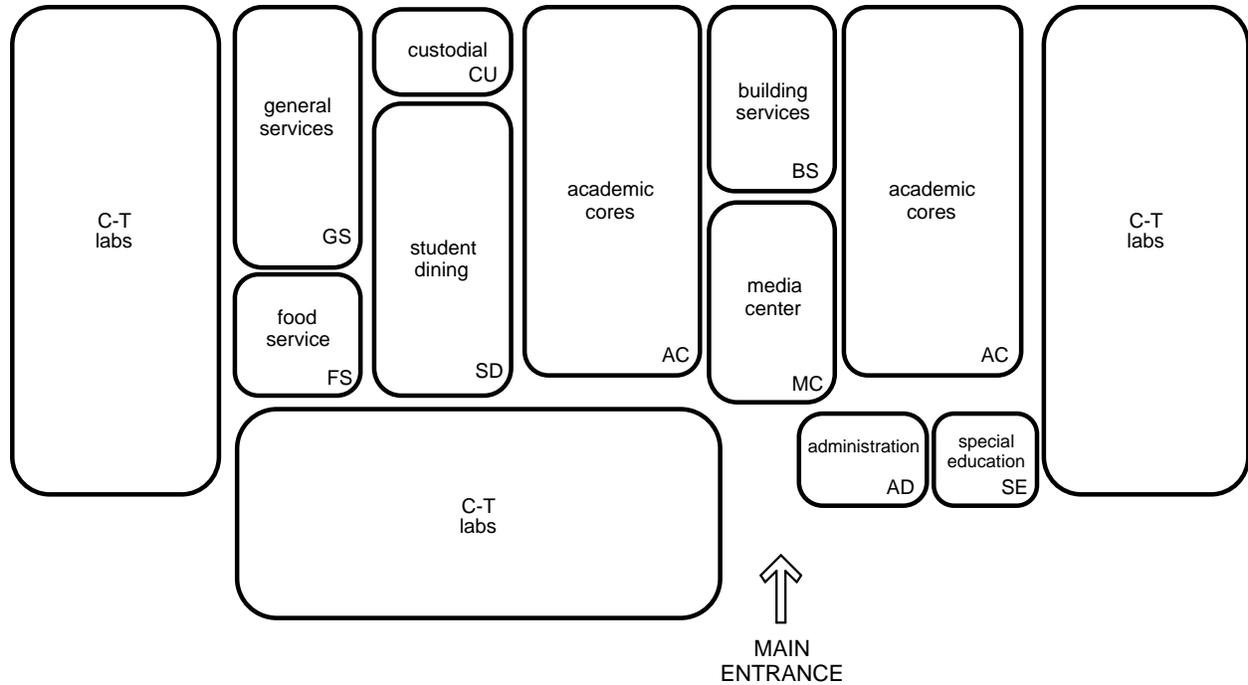
CHAPTER 6: CAREER-TECHNICAL SCHOOL

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17.0303	5	T2	Auto Specialization	6315-9
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	6	<i>DD</i>	<i>Structural Systems</i>	<i>6316-21</i>

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NOTES:

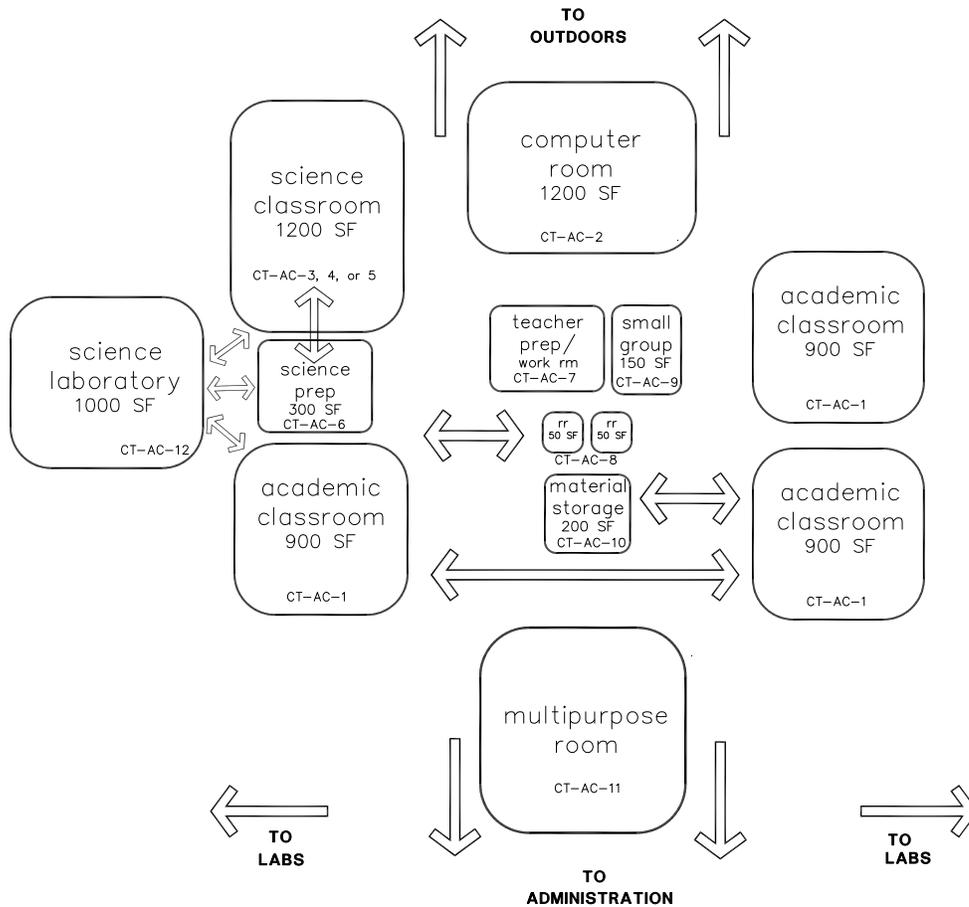
This is an example of how the spaces in a career-technical school could be arranged. This is meant only to demonstrate the relationships between various spaces of this area.

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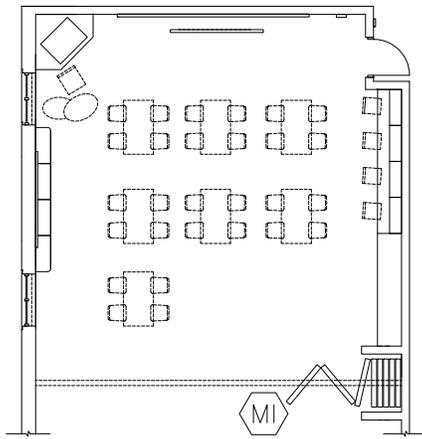
NOTE:

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.

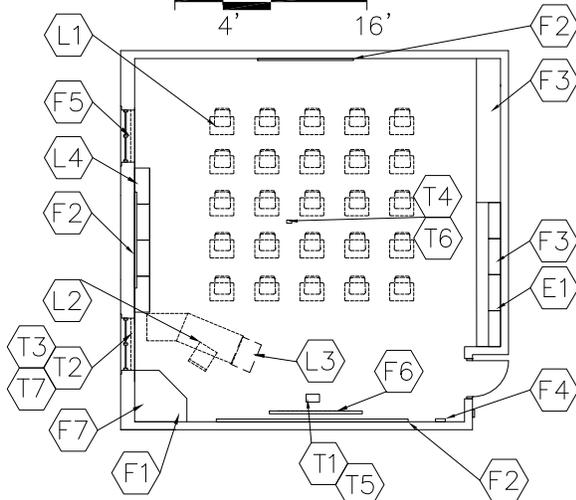
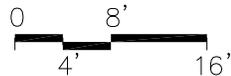
Following are the Academic core space:

- 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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CLASSROOM WITH OPTIONAL FOLDING WALL



TYPICAL CLASSROOM

CAPACITY:
SIZE:

25 students
900 SF

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

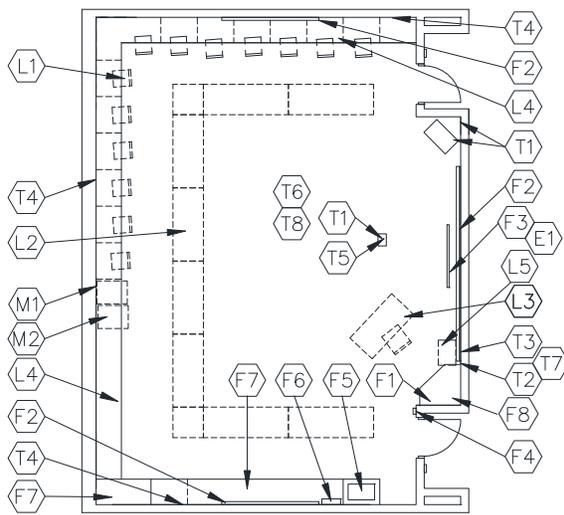
**ACADEMIC CLASSROOM
CT-AC-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

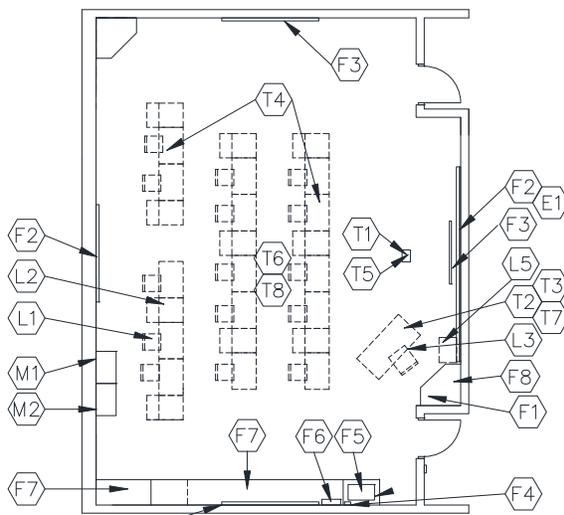
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>			
Carpet, carpet tile	096816	F1 Tall wardrobe with file drawers	123550
Optional: ET, sheet vinyl, linoleum, or rubber	096516 096500 096813	F2 20'-32' combination marker board, tack board and tackable wall surface	101100
		F3 18'-24' combination base and wall cabinets	123550
<u>Base:</u>		F4 Pencil sharpener support (optional)	062000
Resilient base	096500	F5 Windows with integral blinds	085113
		F6 Projection screen (optional)	115213
<u>Ceiling:</u>		F7 Technology support casework	123550
Suspended, acoustical	095113	<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>Walls:</u>		<u>Plumbing:</u> N/A	
Painted concrete masonry units	042000/099100	<u>HVAC:</u>	
<u>LOOSE FURNISHINGS:</u>			
L1 Student desks and chairs		Supply/return air system	Div. 23
L2 Teacher desk or workstation/computer support and chair		Independent temperature control	230923
L3 File cabinet		<u>Electrical:</u>	
L4 9' of low bookcases (fixed or mobile) 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
		<u>Communications:</u>	
		T1 1 projector video port	271543
		T2 1 voice port and phone	271513/273123
		T3 1 data port near teacher workstation	271513
		T4 Wireless access point cable above ceiling	271513
		Clock	275313
		Central sound system	275123
		Sound reinforcement system	275127
		T5 Ultra-short throw interactive projector	274119
		T6 Wireless access point (WAP) as determined by design – refer to Note 4	272133
		T7 Classroom technology center videoport	271543, 274116, 274119, 275127
<u>Electronic Safety and Security:</u>			
Life safety devices per code	283111		
<u>Miscellaneous:</u>			
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: 25 students
 SIZE: 1,100 SF

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

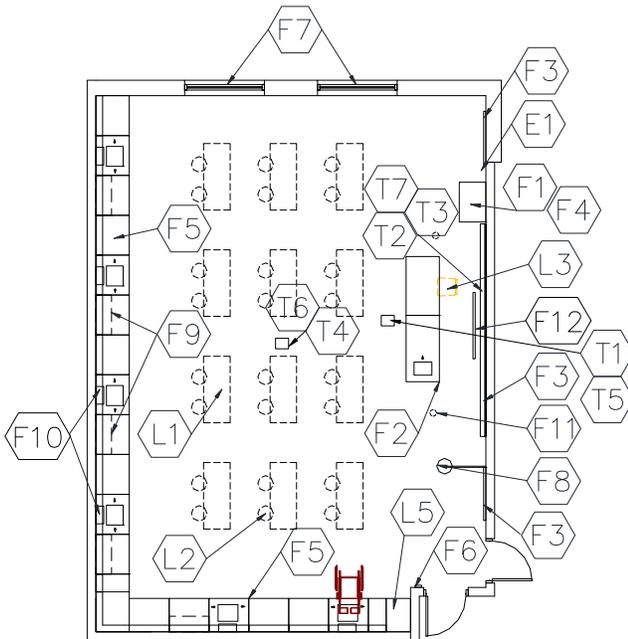
**COMPUTER ROOM
CT-AC-2**

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 096516 096813	F2 16'-32' combination marker board tack board & tackable wall surface	101100
<u>Base:</u>		F3 Projection screen (optional)	115213
Resilient base	096500	F4 Pencil sharpener support (optional)	062000
<u>Ceiling:</u>		F5 3' sink base cabinet (optional)	123550
Suspended, acoustical	095113	F6 Towel dispenser (optional)	102813
<u>Walls:</u>		F7 9'-20' combination base and tall cabinets	123550
Paint	099100	F8 Technology support casework	123550
<u>LOOSE FURNISHINGS:</u>		<u>Fire Suppression:</u>	
L1 Student chairs		Fire suppression system	211000
L2 Work tables		<u>Plumbing:</u>	
L3 Teacher desk or workstation/computer support and chair		N/A	
L4 Computer workstation furniture		<u>HVAC:</u>	
L5 File cabinet		Supply/return air system	Div. 23
Wastebasket		Independent temperature control	230923
L4 could be fixed casework.		<u>Electrical:</u>	
		Fluorescent lighting:	
		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:

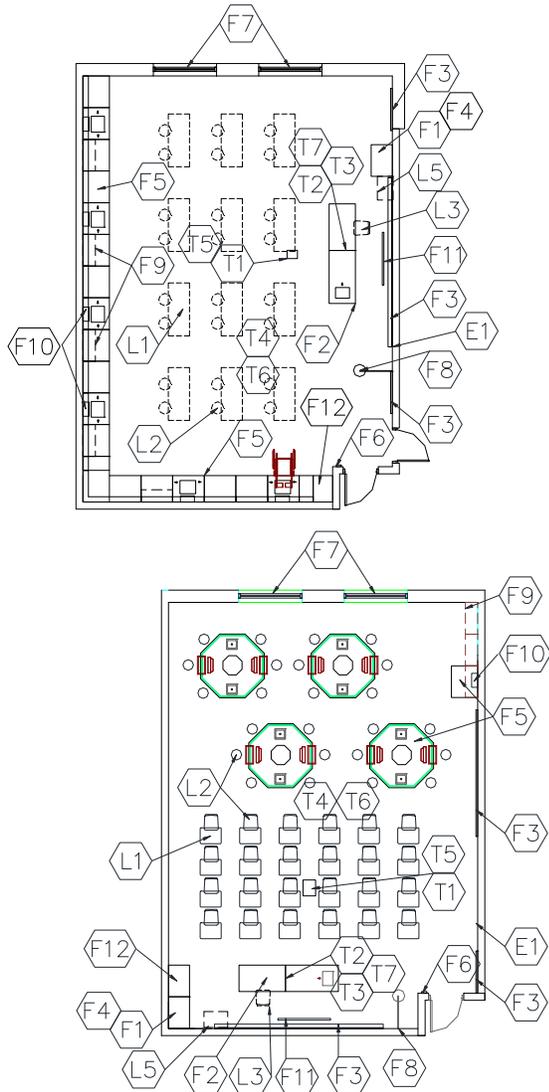
- Near other science classrooms
- Adjacent to science prep room
- Classrooms located in academic “zone” that is away from noisy or public activities
- Classrooms with access to media center and administrative services
- Proximity to large group restrooms
- Flexibility of space

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.



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.

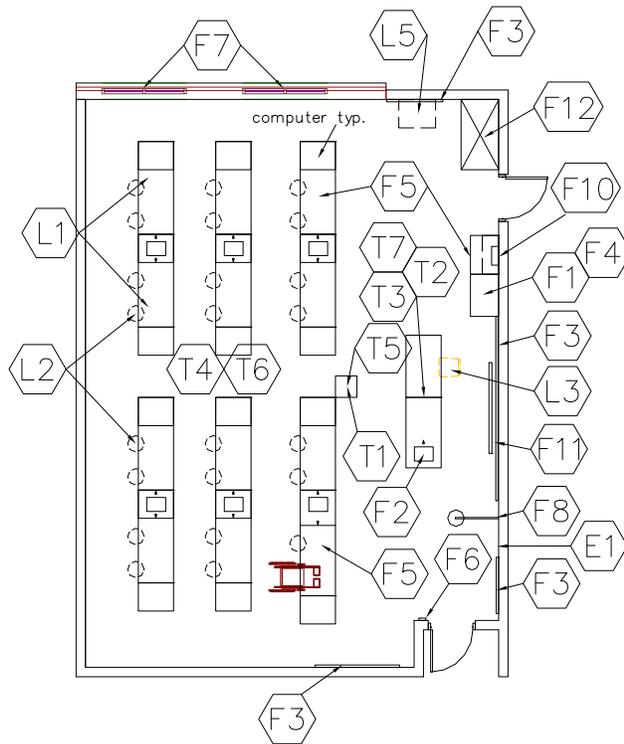
**BIOLOGY
CT-AC-4**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Linoleum,	096500	F1 Tall wardrobe with file drawers	123553
Rubber, ET, sheet vinyl,	096516	F2 Demonstration table/teacher desk	123553
polished concrete finishing, or	033510	F3 20'-32' combination marker board	101100
colored concrete finishing	033519	tack board and tackable wall surface	
		F4 Technology support casework	123550
		F5 40'-60' of lab casework with sinks	123553
		F6 Pencil sharpener support (optional)	062000
<u>Base:</u>		F7 Windows with integral blinds	085113
Resilient base	096500	F8 Emergency shower/eyewash	224000
		F9 18'-24' of wall cabinets (total)	123553
<u>Ceiling:</u>		F10 Towel dispensers (optional)	102813
Suspended, acoustical	095113	F11 Projection screen (optional)	115213
		F12 Tall cabinets (optional)	123550
<u>Walls:</u>		<u>Fire Suppression:</u>	
Paint		Fire suppression system	211000
099100		<u>Plumbing:</u>	
		Plumbing connections 224000/221116/221119	
<u>LOOSE FURNISHINGS:</u>		Emergency shower/eyewash	
L1 Student work tables		connections	224000
L2 Student stools/chairs		Master shut-off for gas	226313
L3 Teacher chair or stool		Gas connections	226313
L4 Reserved		Compressed air connections (optional)	221500
L5 File cabinet		Acid waste piping	221316
Wastebasket		Neutralization tank (optional)	221323
		<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Independent temperature ctrl	230923
		Manual exhaust	Div. 23
L4 could be fixed casework.		<u>Electrical:</u>	
		Fluorescent lighting:	265100
		Illumination level: See Table 8600-5	
		Multilevel switching	262726
<u>Electronic Safety and Security:</u>		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
<u>Miscellaneous:</u>		Emergency lighting	265100
Pencil sharpener (optional)		Means of egress lighting per code	265100
		<u>Communications:</u>	
E1 Duplex receptacle with dedicated		T1 1 projector video port	271543
circuit for wireless devices		T2 1 voice port and phone	271513/273123
		T3 1 data port at demonstration table	271513
		T4 Wireless access point cable above ceiling	271513
<u>Communications (cont'd):</u>		Central sound system	275123
T6 Wireless access point (WAP) as determined by		Clock	275313
Design – refer to Note 4	272133	Sound reinforcement system	275127
T7 Classroom technology center video port		T5 Ultra-short throw interactive projector	274119
271543, 274116, 274119, 275127			

NOTES:

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



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:

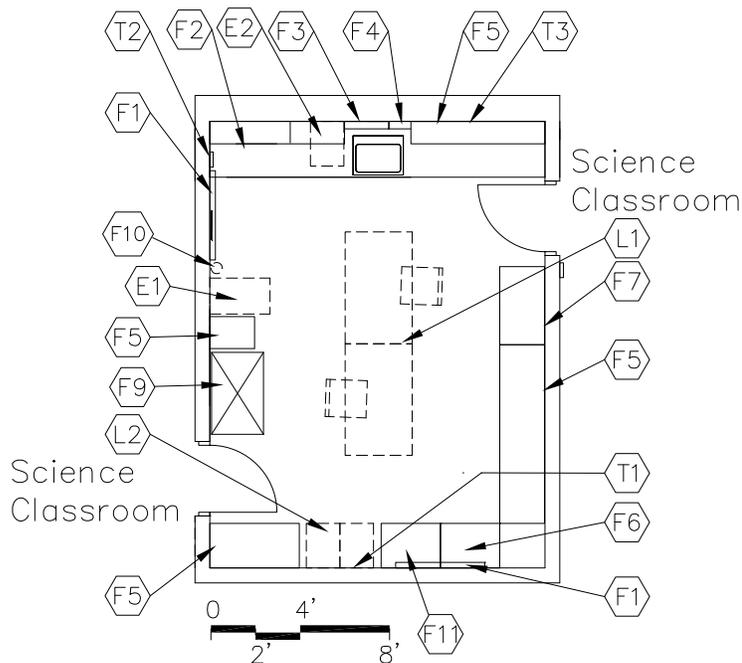
- Near other science classrooms
- Adjacent to science prep room
- Classrooms located in academic “zone” that is away from noisy or public activities
- Classrooms with access to media center and administrative services
- Proximity to large group restrooms
- Flexibility of space

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.



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**

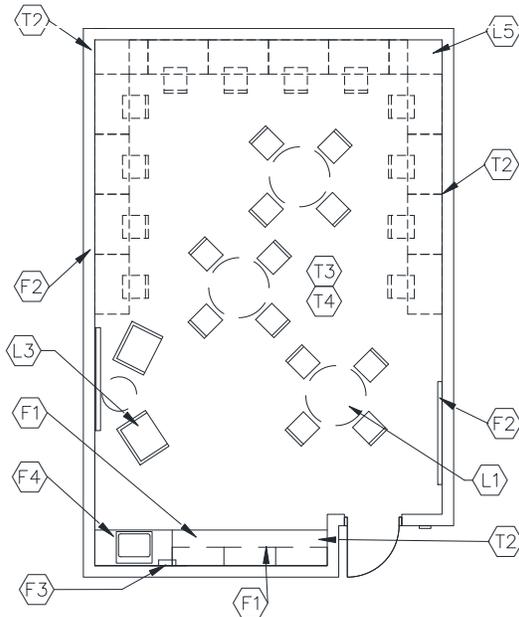
CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	<u>Spec. Ref.#</u>	<u>FEATURES¹:</u>	<u>Spec. Ref.#</u>
<u>Flooring:</u>		<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 and tall cabinets	123553
<u>Base:</u>		F6 Storage cabinets for acids, Ventilated (optional)	123553
Resilient base	096500	F7 Storage cabinets for flammables(optional)	123553
		F8 Reserved	
<u>Ceiling:</u>		F9 Fume hood (optional)	123553
Suspended, acoustical	095113	F10 Emergency eyewash (if applicable)	224000
		F11 Chemical storage cabinets with acid resistant lining	123553
<u>Walls:</u>		<u>Fire Suppression:</u>	
Painted concrete masonry units	042000/099100	Fire suppression system	211000
		<u>Plumbing:</u>	
<u>LOOSE FURNISHINGS:</u>		Plumbing connections	224000/221116/221119
L1 Work tables with chemical-resistant top		Acid waste system	Div. 23
L2 2 file cabinets		Gas connections	226313
Wastebasket		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
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting:	265100
		Illumination level: See Table 8600-5	
		1 duplex receptacle under work tables	262726
		3 duplex receptacles	262726
		Receptacle for refrigerator/freezer	262726
		Double duplex receptacle at each data and video port	262726
		<u>Communications:</u>	
		T1 1 projector video port	271543
		T2 1 voice port and phone	271513/273123
		T3 1 data port	271513
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Fume hood through wall if adjacent to chemistry	

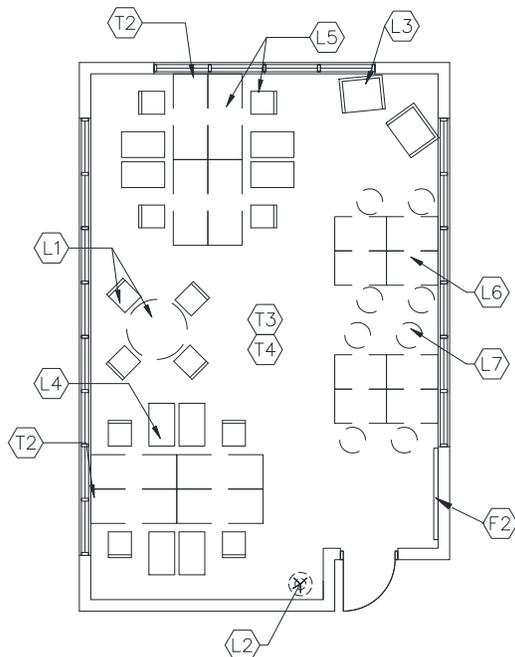
NOTES:

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

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.**

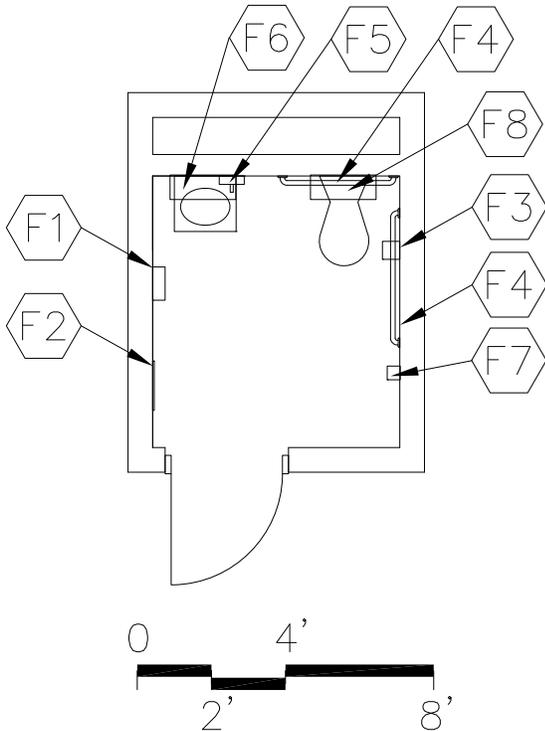
**TEACHER PREP AREA/WORKROOM
CT-AC-7**

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			
L4 Teacher computer trucks			
L5 Teacher workstation furniture and chair			
L6 42" high teacher cabinet with work surface top			
L7 Stools			
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 and video port	262726
		Duplex receptacles for office equipment	262726
		Receptacle for copier(if applicable)	262726
		<u>Communications:</u>	
		T1 Reserved	
		T2 Voice ports and phones	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
<u>Electronic Safety and Security:</u>			
Life safety devices per code	283111		
<u>Miscellaneous:</u>			
Copier by school district			
E1 Reserved			

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: 1 person
SIZE: 60 SF

NOTES:

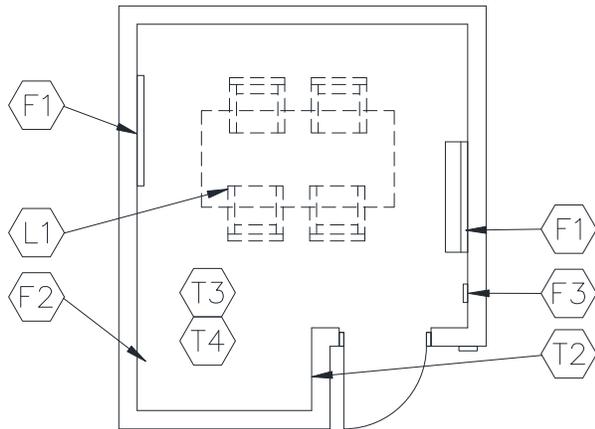
**INDIVIDUAL RESTROOM
CT-AC-8**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

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

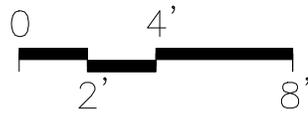
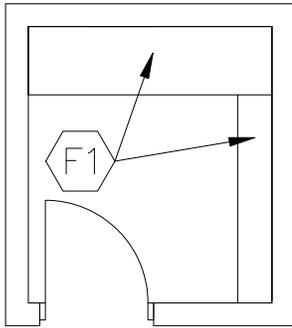
CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	Spec. <u>Ref.#</u>	<u>FEATURES¹:</u>	Spec. <u>Ref.#</u>
<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 096516 096813	F2 4'-6' of work surface (optional)	123550
		F3 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 <i>Reserved</i>		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 <i>Reserved</i>	
		T2 <i>voice port with phone</i>	271513/273123
		T3 <i>Wireless access point cable above ceiling</i>	271513
		T4 <i>Wireless access point (WAP) as determined by design – refer to note 2</i>	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

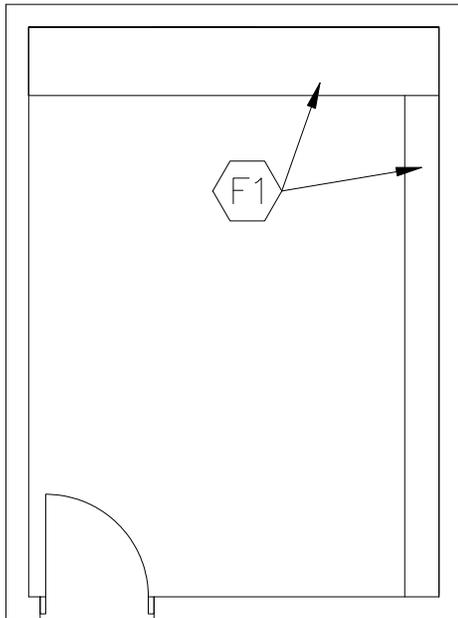
NOTES:

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:

N/A

SIZE:

50 - 120 SF

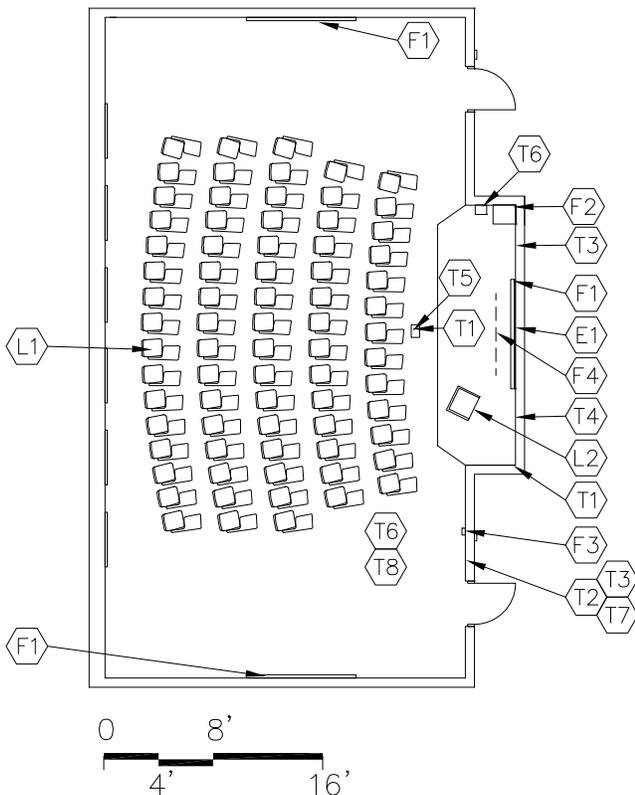
NOTES:

**MATERIAL STORAGE
CT-AC-10**

	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
Base:		Option: mobile storage shelving	105626
Resilient base	096500	<u>Fire Suppression:</u>	
Ceiling:		Fire suppression system	211000
Suspended, acoustical	095113	<u>Plumbing:</u>	
Walls:		N/A	
Painted concrete masonry	042000/099100	<u>HVAC:</u>	
<u>LOOSE FURNISHINGS:</u>		To be determined by Design Professional	
N/A		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>	
		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.

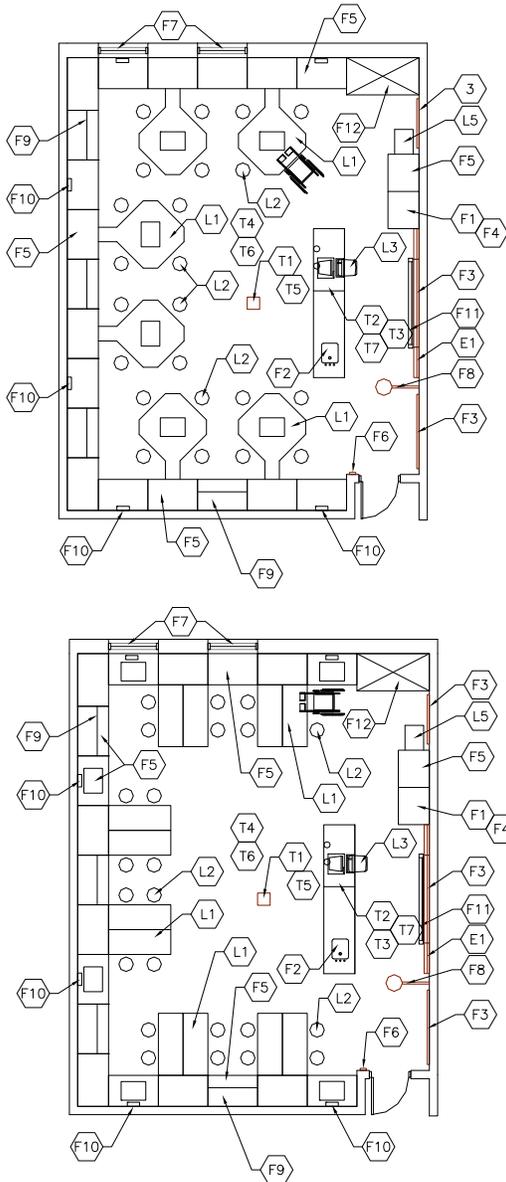
**MULTIPURPOSE ROOM
CT-AC-11**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

	Spec. Ref.#	<u>FEATURES</u> ¹ :	Spec. Ref.#
<u>FINISHES</u> ¹ :		<u>Fixed Items:</u>	
Flooring:		F1 16'-28' combination marker board	101100
Carpet, carpet tile, linoleum,	096816	tack board & tackable wall surface	
rubber, ET, or sheet vinyl	096813	F2 Technology support casework	123550
	096500	F3 Pencil sharpener support (optional)	062000
	096516	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
<u>Electronic Safety and Security:</u>		T5 Ultra-short throw interactive projector	274119
Life safety devices per code	283111		
<u>Miscellaneous:</u>		T6 Student Dining/Cafeteria sound	
Pencil sharpener (optional)		reinforcement system	275122
E1 Duplex receptacle with dedicated		T7 Wireless access point (WAP) as	
circuit for wireless devices		determined by Design – refer to Note 3	272133
		T7 Classroom technology center video port	271543, 274116, 274119, 275127
		T8 Wireless access point cable above ceiling	271513

NOTES:

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



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

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Adjacent to other science classrooms
- Near science prep room

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

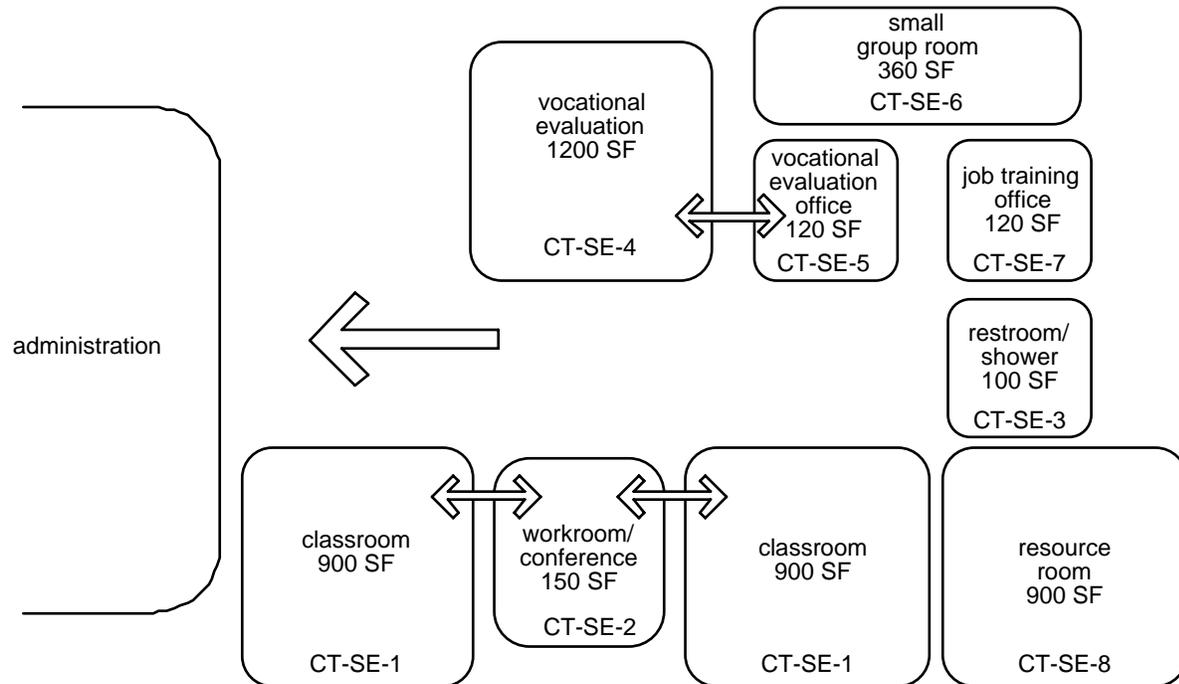
**SCIENCE LABORATORY
CT-AC-12**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<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
		F4 Technology support casework	123550
<u>Base:</u>		F5 40'-60' lab casework with sinks	123553
Resilient base	096500	F6 Pencil sharpener support (optional)	062000
		F7 Windows with integral blinds	085113
<u>Ceiling:</u>		F8 Emergency shower/eyewash	224000
Suspended, acoustical	095113	F9 18'-24' of wall cabinets (optional)	123553
		F10 Towel dispensers (optional)	102813
<u>Walls:</u>		F11 Projection screen (optional)	115213
Paint	99100	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	271543, 274116, 274119, 275127	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.



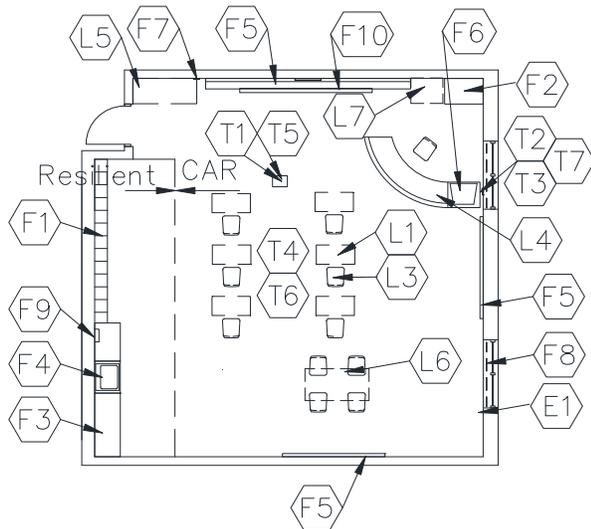
NOTES:

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.

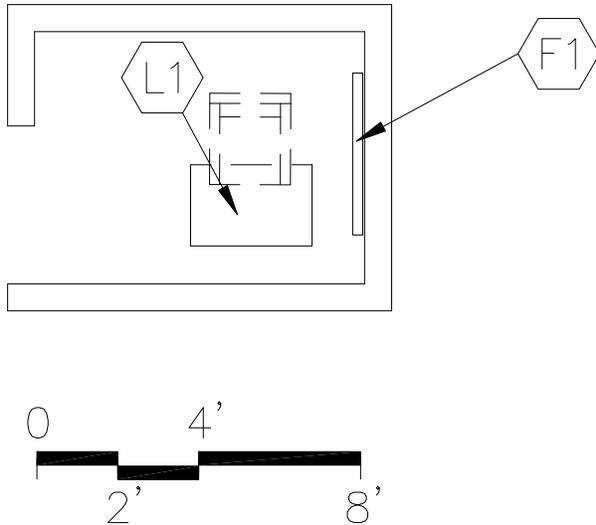
**CLASSROOM
CT-SE-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Combination carpet, carpet tile with resilient options	096816 096500	F1 Open casework – student coats and personal items with wall cabinets above	123550 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
<u>Base:</u>		F6 Technology support casework	123550
Resilient base	096500	F7 Pencil sharpener support (optional)	062000
		F8 Windows with integral blinds	085113
<u>Ceiling:</u>		F9 Towel dispenser (optional)	102813
Suspended, acoustical	095113	F10 Projection screen (optional)	115213
		F11 Tall storage cabinet(optional)	123550
<u>Walls:</u>		F12 Mirror (optional)	102813
Paint	099100	<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Student desks/tables		Sink with drinking fountain	224000
L2 Reserved		Plumbing connections	224000/221116/221119
L3 Student chairs		<u>HVAC:</u>	
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		<u>Electrical:</u>	
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
<u>EQUIPMENT(optional)</u>		<u>Communications:</u>	
Washer and dryer		T1 1 projector video port	271543
Small refrigerator		T2 1 voice port and phone	271513/273123
Range		T3 1 data port near teacher workstation	271513
Oven		T4 Wireless access point cable above ceiling	271513
Microwave		Clock	275313
		Sound reinforcement system	275127
<u>Electronic Safety and Security:</u>		Central sound system	275123
Life safety devices per code	283111	T5 Ultra-short throw interactive projector	274119
<u>Miscellaneous:</u>		T6 Wireless access point (WAP) as determined by Design – refer to Note 3	272133
Pencil sharpener (optional)		T7 Classroom technology center video port	271543, 274116, 274119, 275127
E1 Duplex receptacle with dedicated circuit for wireless devices			

NOTES:

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



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**

CAPACITY: 1 - 2 persons
SIZE: 150 SF

NOTES:

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

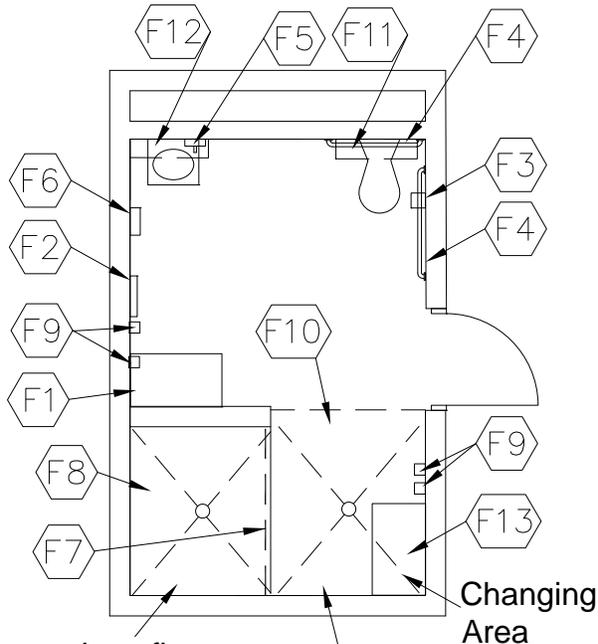
WORKROOM/CONFERENCE**CT-SE-2 (Quiet Area)**

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

NOTES:

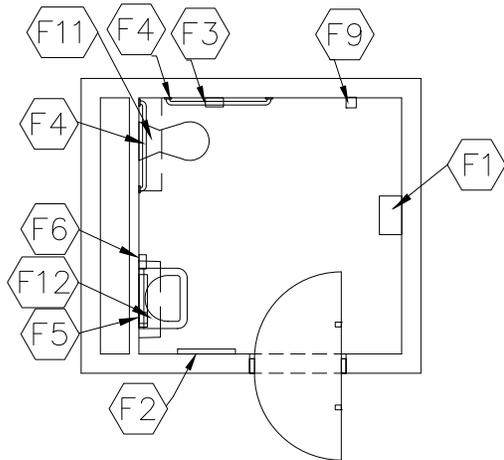
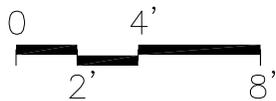
1. Finishes/Features: Refer to Chapter 9 for specification references.



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

Drying Area;
5' x 5' sloped floor

Changing Area



CAPACITY: 1 - 2 persons
SIZE: 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:

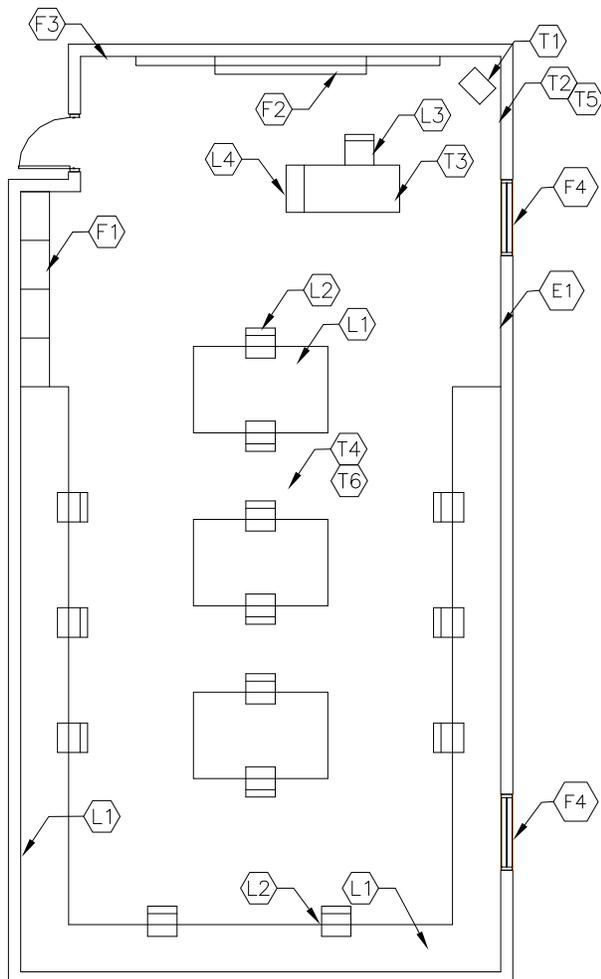
1. See Chapter 1, page 1110-16 for specific areas needed for each disability.

**RESTROOM/SHOWER
CT-SE-3**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Restroom: ET, vinyl sheet flooring,	096500	F1 Base cabinets	123550
porcelain tile, or ceramic tile	093000	F2 24" x 60" mirror	102813
Shower: Ceramic mosaic tile, or porcelain tile		F3 Toilet tissue holder	102813
		F4 36" and 42" grab bar	102813
		F5 Soap dispenser	102813
<u>Base:</u>		F6 Towel dispenser	102813
Restroom: Resilient base,	096500	F7 Shower curtain and rod	102813
integral vinyl cove base,	093000	F8 ADA shower accessories	102813
porcelain tile, or ceramic tile		F9 (2) hooks	102813
Shower: Ceramic mosaic tile base or porcelain tile		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>Plumbing:</u>	
<u>Walls:</u>		Wall-mounted water closet	224000
Epoxy painted concrete		Wall-mounted lavatory	224000
masonry units	042000/099100	ADA shower controls and head	224000
or ceramic wall tile in shower	093000	Plumbing connections	224000/221116/221119
and latex paint in restroom	099100		
<u>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.

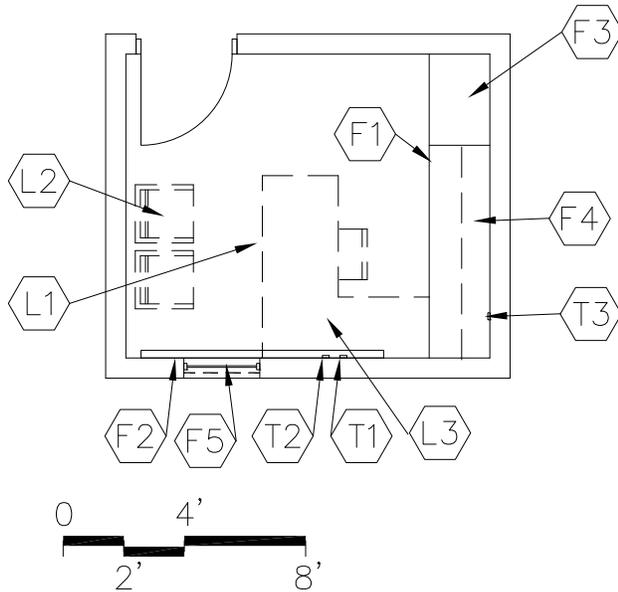
**CAREER TECHNICAL EVALUATION
CT-SE-4**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<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>Communications:</u>	
		T1 1 projector video port and video display device	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
		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	
<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. **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.

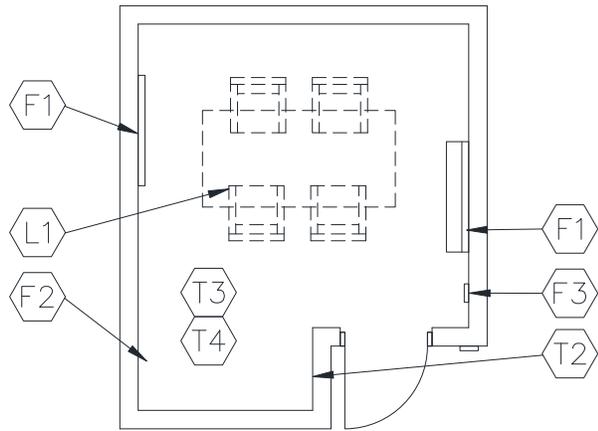
**CAREER TECHNICAL EVALUATION OFFICE
CT-SE-5**

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
		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.



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: 4 - 5 students
SIZE: 360 SF

NOTES:

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

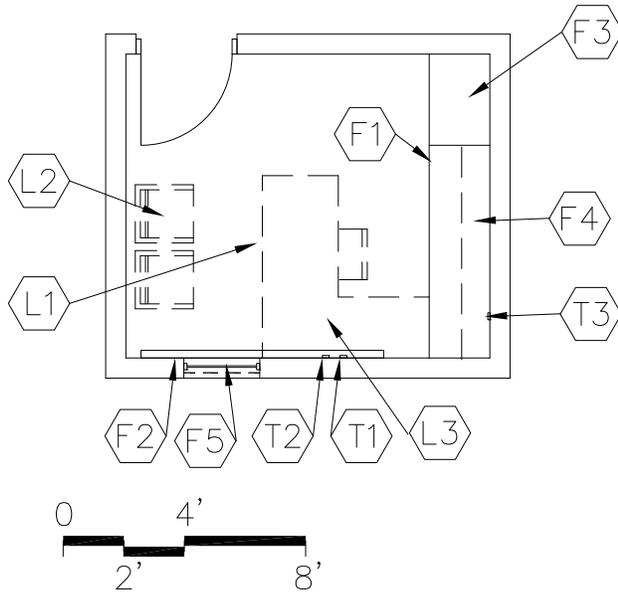
**SMALL GROUP ROOM
CT-SE-6**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

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

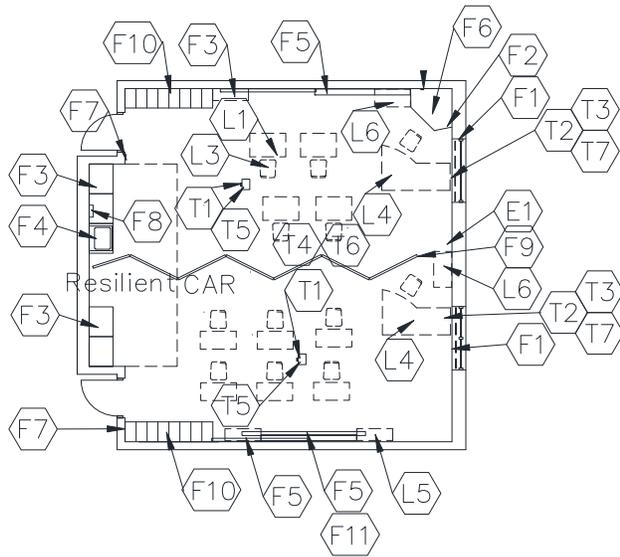
**JOB TRAINING OFFICE
CT-SE-7**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	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
		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.



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.

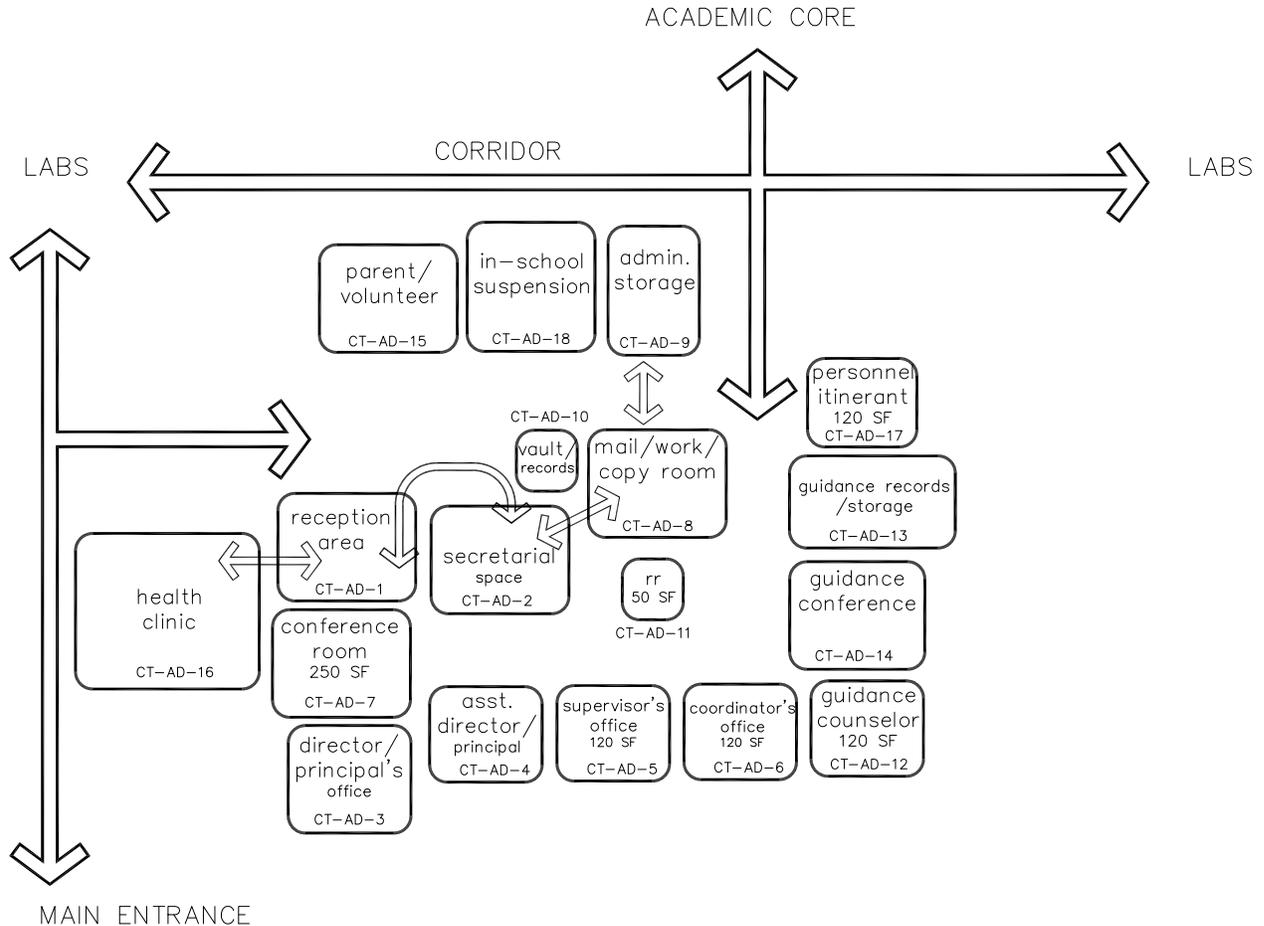
**RESOURCE ROOM
CT-SE-8**

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 with resilient options	096816 096500	F1 Windows with integral blinds	085113 123550
Option: All ET, sheet vinyl, linoleum, or rubber	096516	F2 Tall wardrobe with file drawers	123550
		F3 8'-12' of base cabinets	123550
		F4 3' sink base cabinet	123550
		F5 20'-32' combination chalk/marker board, tack board, tackable wall surface	101100
<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
		F11 Projection screen (optional)	115213
<u>Walls:</u>		F12 Mobile storage cabinet (optional)	123550
Paint	099100	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		<u>HVAC:</u>	
L6 File cabinet		Supply/return air system	Div. 23
Wastebasket		Independent temperature control	230923
		<u>Electrical:</u>	
<u>Electronic Safety and Security:</u>		Fluorescent lighting	265100
Life safety devices per code	283111	Illumination level: See Table 8600-5	
		Multilevel switching	262726
<u>Miscellaneous:</u>		4 duplex receptacles	262726
Pencil sharpener (optional)		Double duplex receptacle adjacent to each data and video port	262726
E1 Duplex receptacle with dedicated circuit for wireless devices		<u>Communications:</u>	
		T1 1 projector video port	271543
<u>Communications (cont'd):</u>		T2 1 voice port and phone	271513/237123
T6 Wireless access point (WAP) as determined by Design – refer to Note 3	272133	T3 1 data port	
T7 Classroom technology center video port	271543, 274116, 274119, 275127	near each teacher workstation	271513
		T4 Wireless access point cable above ceiling	271513
		Clock	275313
		Sound reinforcement system	275127
		Central sound system	275123
		T5 Ultra-short throw interactive projector	274119

NOTES:

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



NOTE:

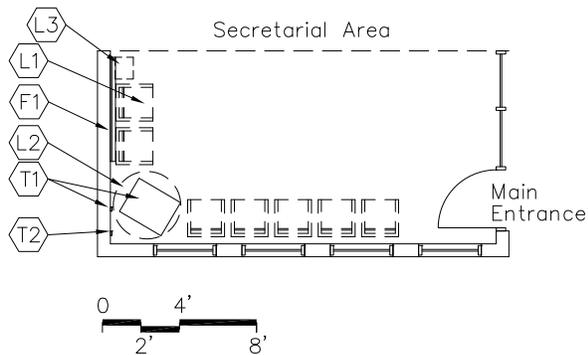
This is an example of how the administrative spaces in a career-technical school could be arranged. This is only meant to demonstrate the relationships between various areas of the building.

Following are the Administrative space plates for the following rooms:

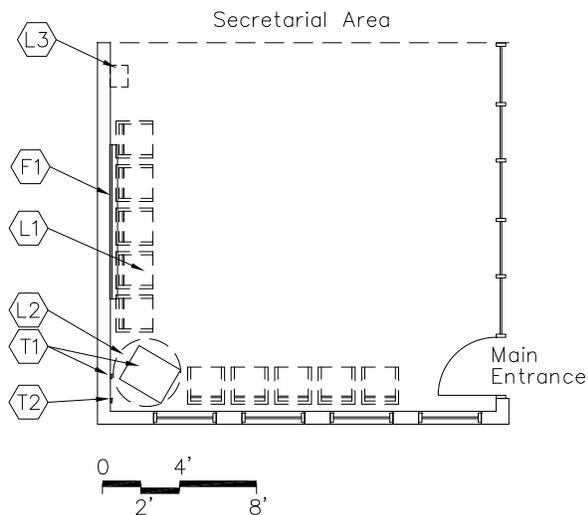
CT-AD-1	Reception Area	CT-AD-10	Vault/Records
CT-AD-2	Secretarial Space	CT-AD-11	Restroom
CT-AD-3	Director/Principal's Office	CT-AD-12	Guidance Counselor
CT-AD-4	Assistant Director/Principal's Office	CT-AD-13	Guidance Records/Storage
CT-AD-5	Supervisor's Office	CT-AD-14	Guidance Conference
CT-AD-6	Coordinator's 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**

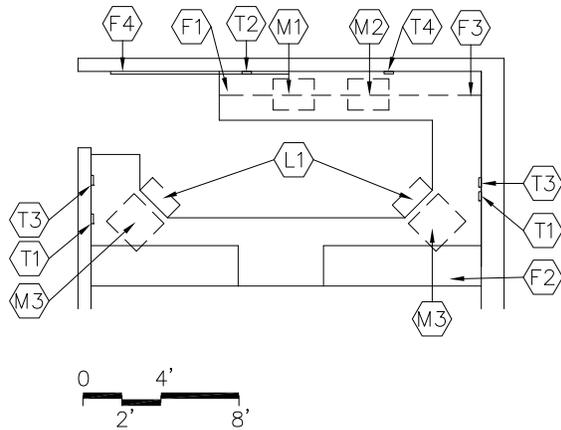
CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816 096813	F1 Tack board or tackable wall surface (optional)	101100
Base:		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Suspended, acoustical	095113	N/A	
Walls:		<u>HVAC:</u>	
Painted gypsum wallboard over metal studs	092116/099100	Supply/return air system	Div. 23
<u>LOOSE FURNISHINGS:</u>		Independent temperature control	230923
L1 Visitor chairs		<u>Electrical:</u>	
L2 End table		Single level switching	262726
L3 Racks for forms (optional)		Fluorescent lighting	265100
Wastebasket		Illumination level: See Table 8600-5	
		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

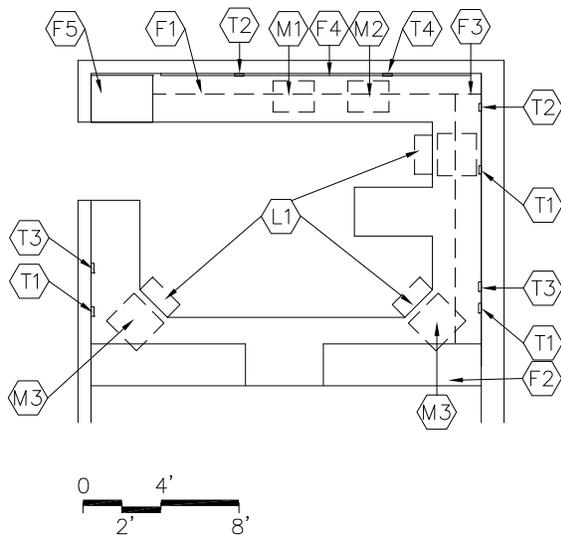
NOTES:

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:

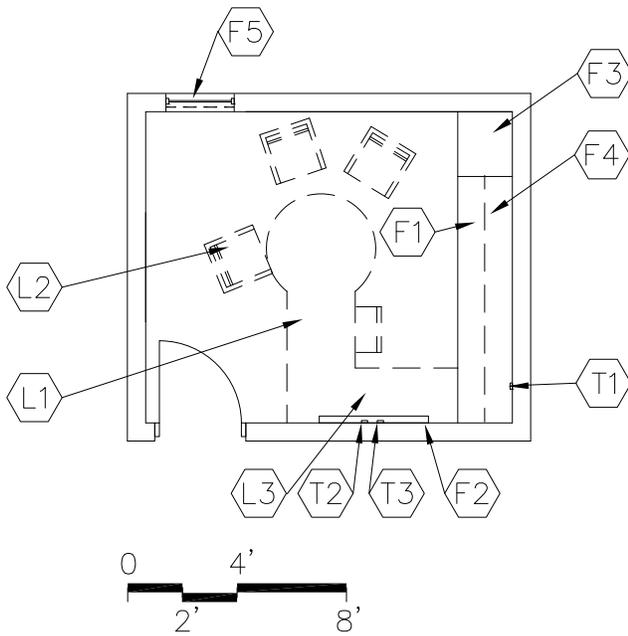
1. Loose furnishings shown represent one of many possible arrangements.

**SECRETARIAL AREA
CT-AD-2**

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

NOTES:

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



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY: 1 - 4 persons
SIZE: 150 SF

NOTES:

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

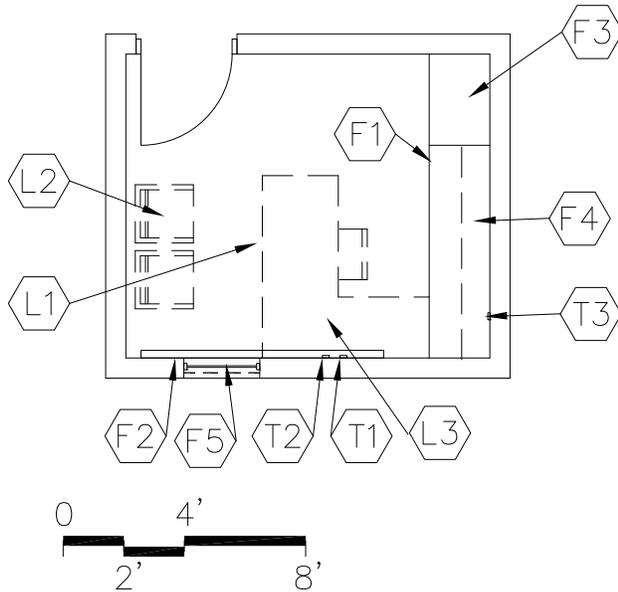
**DIRECTOR / PRINCIPAL'S OFFICE
CT-AD-3**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816	F1 Work surface with file drawers	123550
	096813	F2 4' of tack board	101100
<u>Base:</u>		or tackable wall surface	
Resilient base	096500	F3 Tall wardrobe (optional)	123550
<u>Ceiling:</u>		F4 Wall cabinets above work surface	123550
Suspended, acoustical	095113	F5 Window with integral blind	085116
<u>Walls:</u>		<u>Fire Suppression:</u>	
Painted gypsum wallboard		Fire suppression system	211000
over metal studs	092116 / 099100	<u>Plumbing:</u>	
<u>LOOSE FURNISHINGS:</u>		N/A	
L1 Desk and chair		<u>HVAC:</u>	
L2 Visitor chairs		Supply/return air system	Div. 23
L3 Computer desk return		Independent temperature control	230923
Wastebasket		(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 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: 1 - 3 persons
 SIZE: 120 SF

NOTES:

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

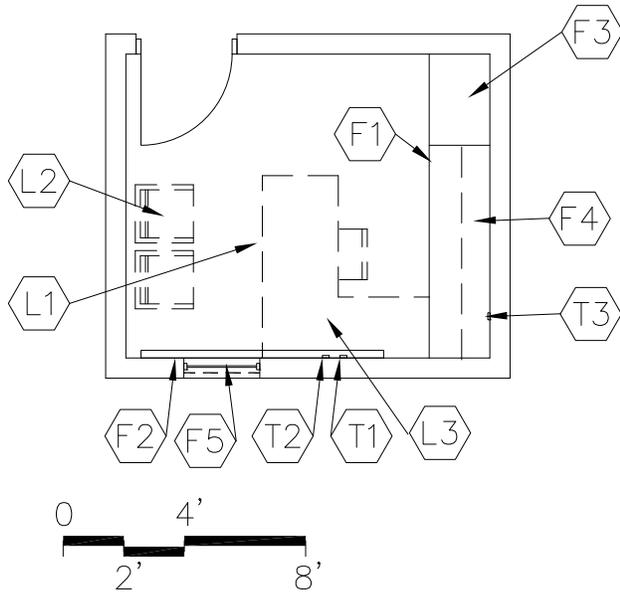
**ASSISTANT DIRECTOR / PRINCIPAL'S OFFICE
CT-AD-4**

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
		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.



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: 1 - 3 persons
 SIZE: 120 SF

NOTES:

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

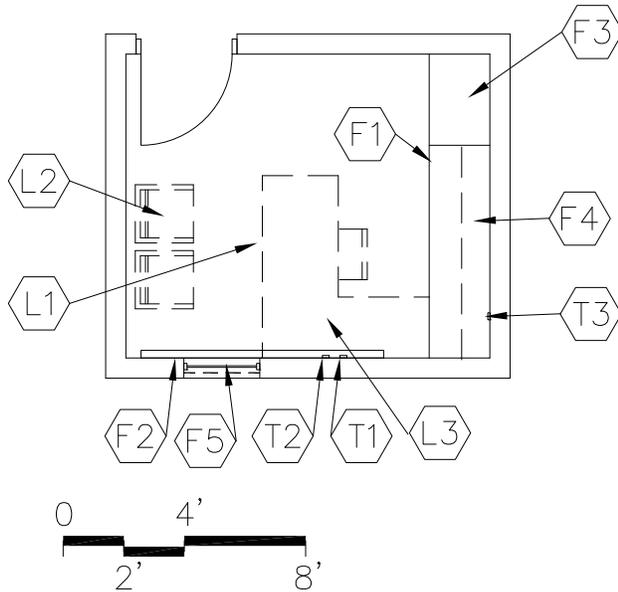
**SUPERVISOR'S OFFICE
CT-AD-5**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	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
		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.



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: 1 - 3 persons
SIZE: 120 SF

NOTES:

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

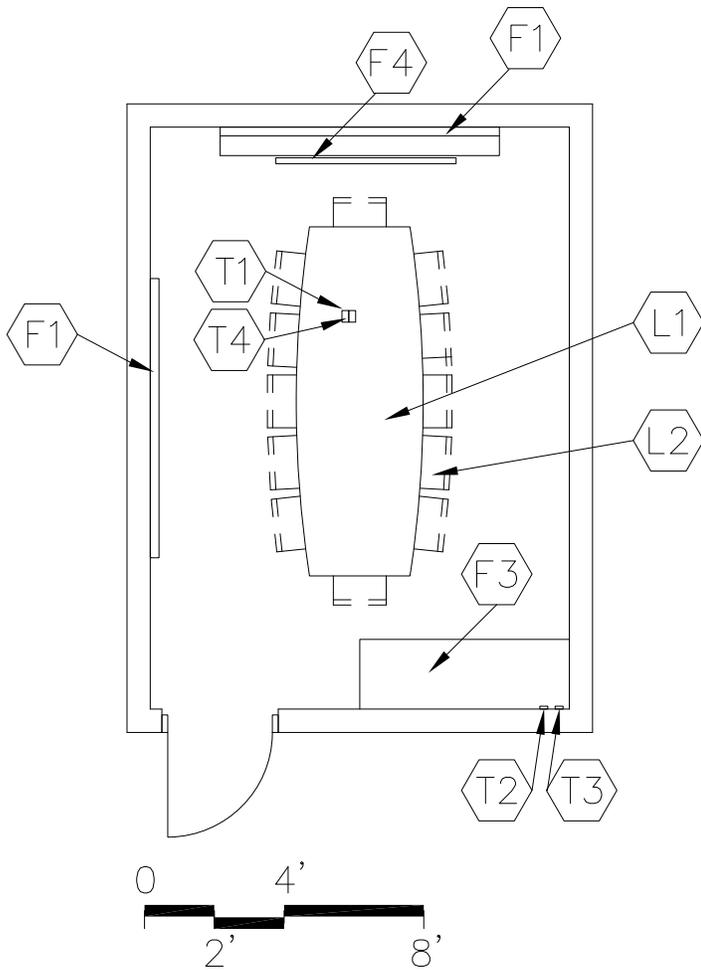
**COORDINATOR'S OFFICE
CT-AD-6**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	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
		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.



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

CAPACITY: 12 – 15 persons
SIZE: 250 SF

NOTES:

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

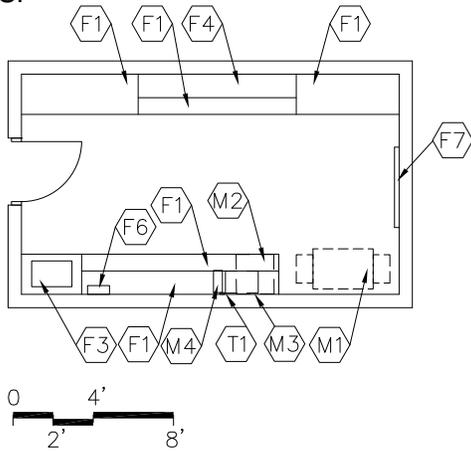
**CONFERENCE ROOM
CT-AD-7**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816 096813	F1 16' combination of marker board, tackboard, tackable wall surface or media display cabinet	101100
<u>Base:</u>		F2 Reserved	
Resilient base	096500	F3 4'-6' of base cabinets (optional)	123550
<u>Ceiling:</u>		F4 Projection screen (optional)	115213
Suspended, acoustical	095113	<u>Fire Suppression:</u>	
<u>Walls:</u>		Fire suppression system	211000
Painted gypsum wallboard over metal studs	092116/099100	<u>Plumbing:</u>	
<u>LOOSE FURNISHINGS:</u>		N/A	
L1 Conference table		<u>HVAC:</u>	
L2 Chairs		Supply/return air system	Div. 23
Wastebasket		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 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	

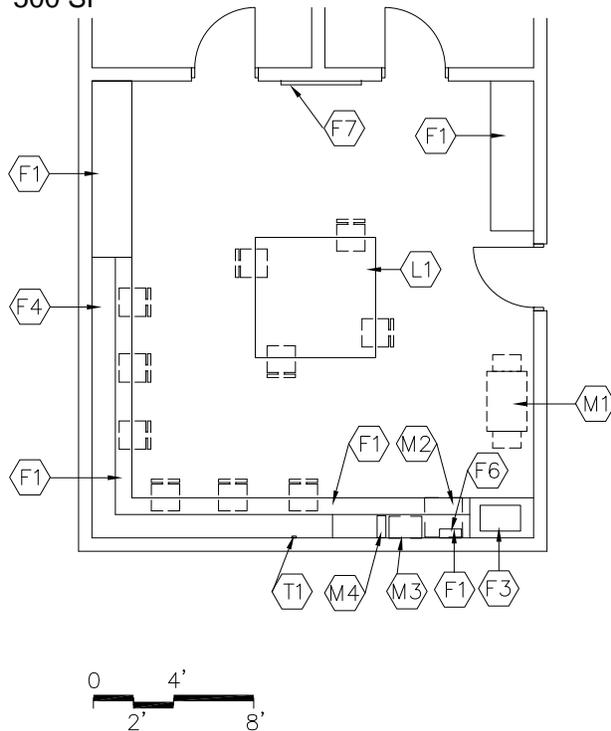
NOTES:

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



500 SF



CAPACITY:
SIZE:

N/A
200 - 500 SF

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Near secretarial area

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

**MAIL/WORK/COPY ROOM
CT-AD-8**

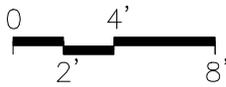
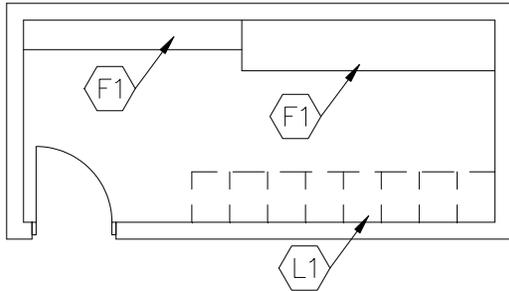
CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet, carpet tile, linoleum, ET, rubber, or sheet vinyl	096500 096813 096816 096516	F1 20'-24' combination wall and base cabinets	123550
		F2 8'-12' of tall storage cabinets or about 32' maximum of a combination storage cabinets	123550
<u>Base:</u>		F3 3' sink base cabinet	123550
Resilient base	096500	F4 Mail cubicles for all staff	123200
		F5 Reserved	
<u>Ceiling:</u>		F6 Towel dispenser (optional)	102813
Suspended, acoustical	095113	F7 4' tack board or marker board (optional)	101100
<u>Walls:</u>		<u>Fire Suppression:</u>	
Painted gypsum wallboard over metal studs	092116/099100	Fire suppression system	211000
		<u>Plumbing:</u>	
<u>LOOSE FURNISHINGS:</u>		Sink	224000
L1 Work table and chairs (applicable in 300 SF space only)		Plumbing connections	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: N/A
SIZE: 150 - 200 SF

NOTES:

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

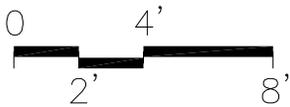
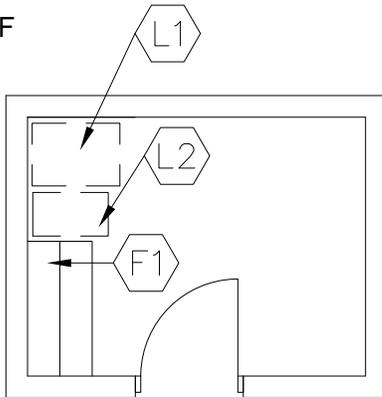
**ADMINISTRATIVE STORAGE
CT-AD-9**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
<i>Carpet, carpet tile, linoleum, ET,</i>	096500	F1 10'-20' of open shelving	
<i>rubber, 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	

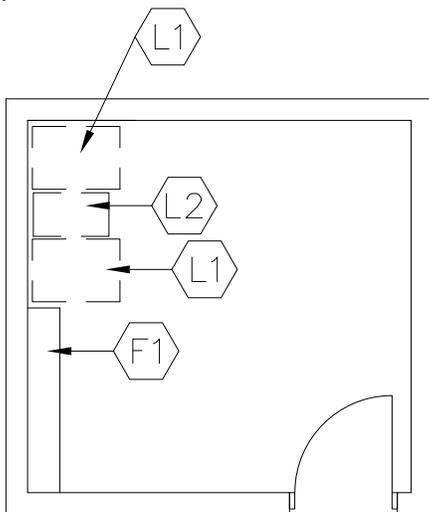
NOTES:

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.

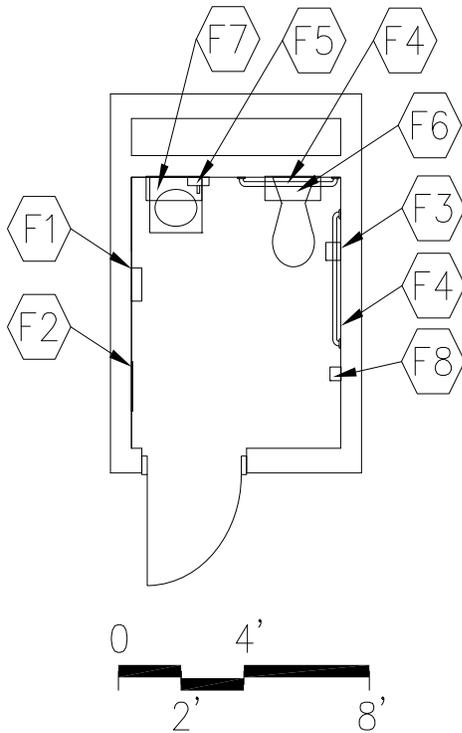
**VAULT/RECORDS
CT-AD-10**

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.



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Located in the administrative area

ENVIRONMENTAL CONSIDERATIONS:

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

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

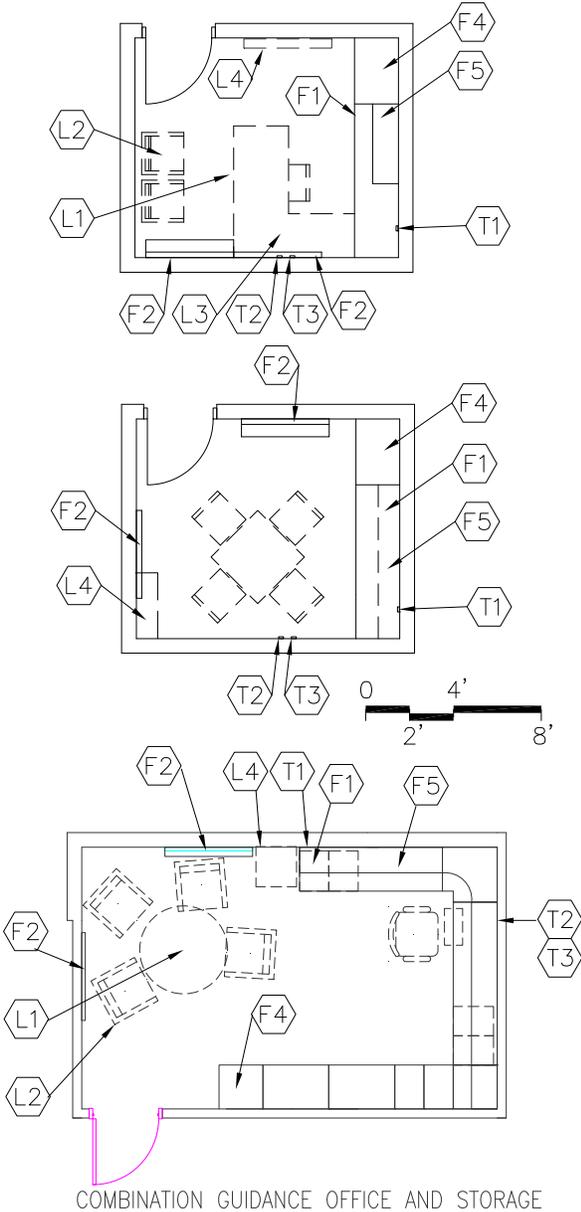
NOTES:

**RESTROOM
CT-AD-11**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<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
<u>Base:</u>		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			
<u>Ceiling:</u>		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
<u>Walls:</u>		<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: 1 - 3 persons
SIZE: 120 SF

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

**GUIDANCE COUNSELOR
CT-AD-12**

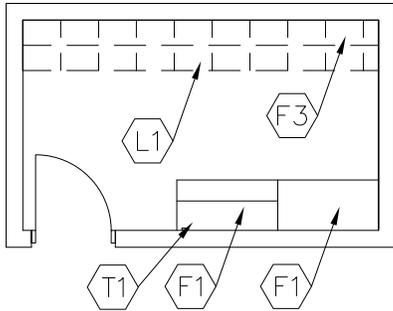
CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>			
Carpet or Carpet Tile	096816	<u>Fixed Items:</u>	
	096813	F1 Work surface with file drawers	123550
<u>Base:</u>		F2 8'-12' combination marker board, tack board, tackable wall surface	101100
Resilient base	096500	F3 Reserved	
<u>Ceiling:</u>		F4 Tall wardrobe	123550
Suspended, acoustical	095113	F5 Wall cabinets	123550
<u>Walls:</u>		<u>Fire Suppression:</u>	
Painted gypsum wallboard over metal studs	092116/099100	Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Desk or table, with chair		N/A	
L2 Visitor chairs		<u>HVAC:</u>	
L3 Computer desk return		Supply/return air system	Div. 23
L4 Bookcase (fixed or loose)		Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
Wastebasket		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to 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	

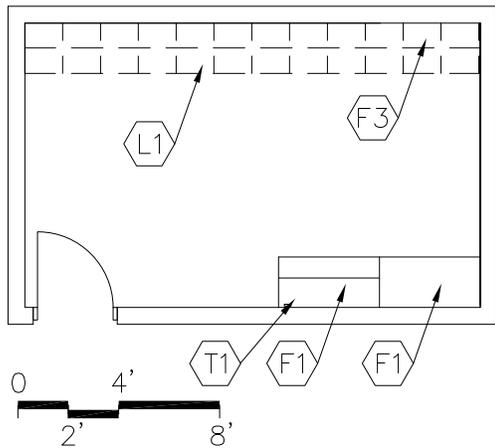
NOTES:

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: N/A
 SIZE: 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:

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

**GUIDANCE RECORDS/STORAGE
CT-AD-13**

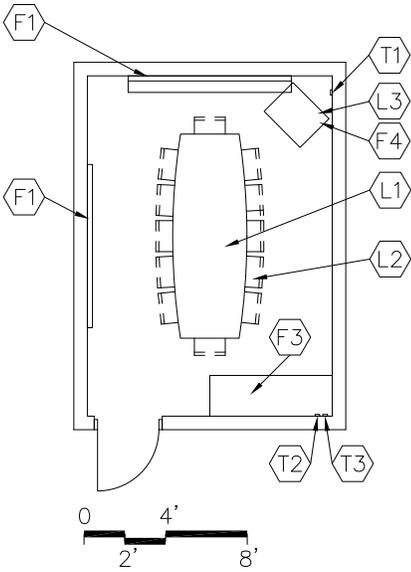
CHAPTER 6: CAREER-TECHNICAL SCHOOL

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

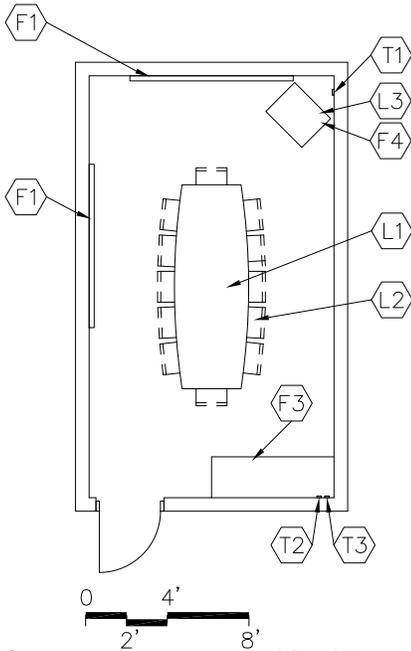
NOTES:

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

150 SF



250 SF



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

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

**GUIDANCE CONFERENCE
CT-AD-14**

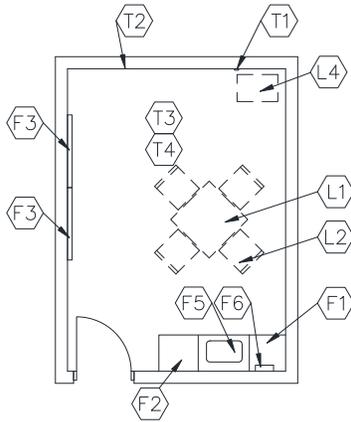
CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>			
Carpet or Carpet Tile	096816 096813	<u>Fixed Items:</u>	
		F1 10'-16' combination marker board, tack board, tackable wall surface	101100
<u>Base:</u>			
Resilient base	096500	F2 Reserved	
		F3 4'-6' of base cabinets	123550
		F4 Technology support casework (optional)	123550
<u>Ceiling:</u>			
Suspended, acoustical	095113	<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>Walls:</u>			
Painted gypsum wallboard over metal studs	092116/099100	<u>Plumbing:</u>	
		N/A	
<u>LOOSE FURNISHINGS:</u>			
L1 Conference table		<u>HVAC:</u>	
L2 Chairs		Supply/return air system	Div. 23
L3 Monitor cart or cabinet (could be fixed casework)		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
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

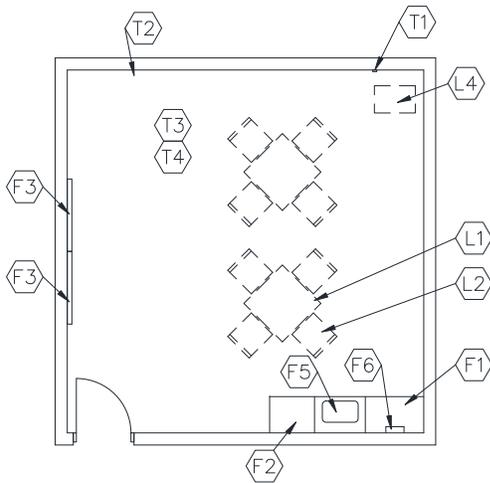
NOTES:

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**

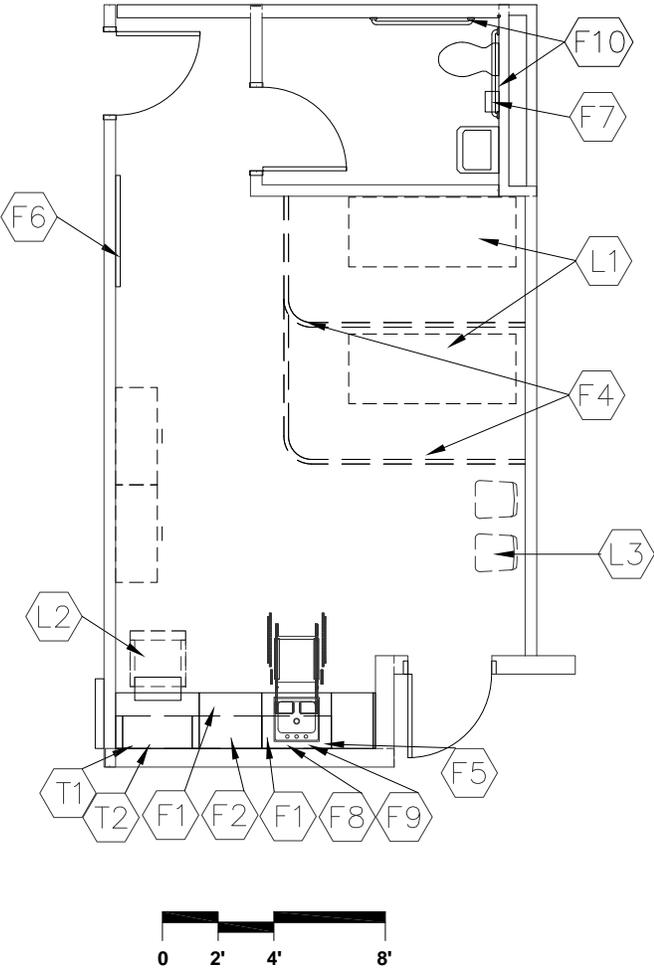
CHAPTER 6: CAREER-TECHNICAL SCHOOL

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

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



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

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

NOTES:

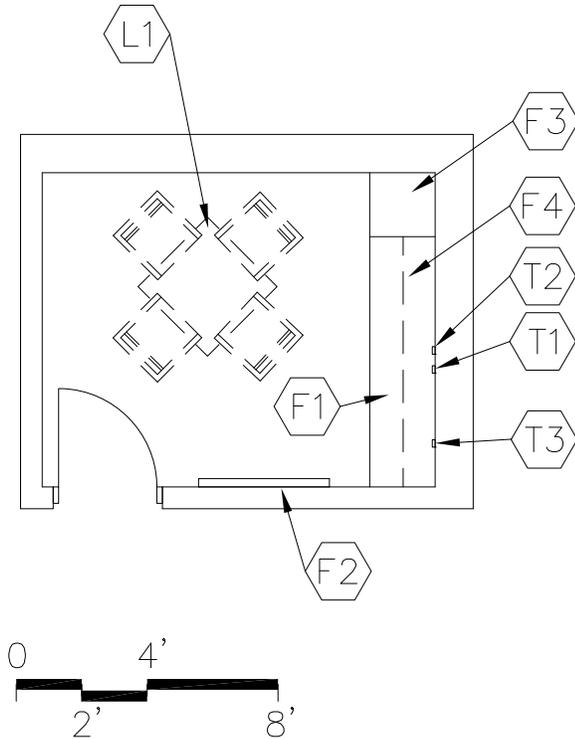
1. Loose furnishings shown represent one of many possible arrangements.

**HEALTH CLINIC (includes restroom)
CT-AD-16**

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

NOTES:

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



APACITY: 1 - 3 persons
 SIZE: 120 SF

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

**ITINERANT PERSONNEL
CT-AD-17**

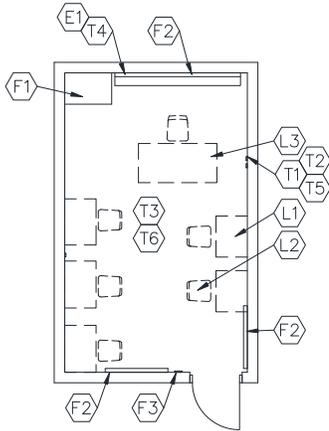
CHAPTER 6: CAREER-TECHNICAL SCHOOL

	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>HVAC:</u>	
<u>LOOSE FURNISHINGS:</u>		Supply/return air system	Div. 23
L1 Table and chairs		Independent temperature control	230923
Wastebasket		(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

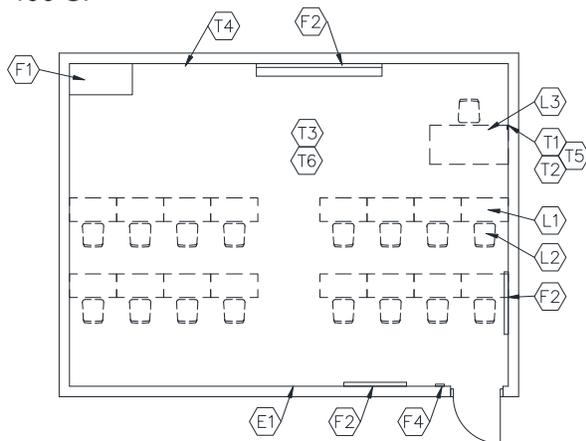
SPATIAL RELATIONSHIPS:

- 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: 5 - 8 students
SIZE: 200 - 400 SF

NOTES:

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

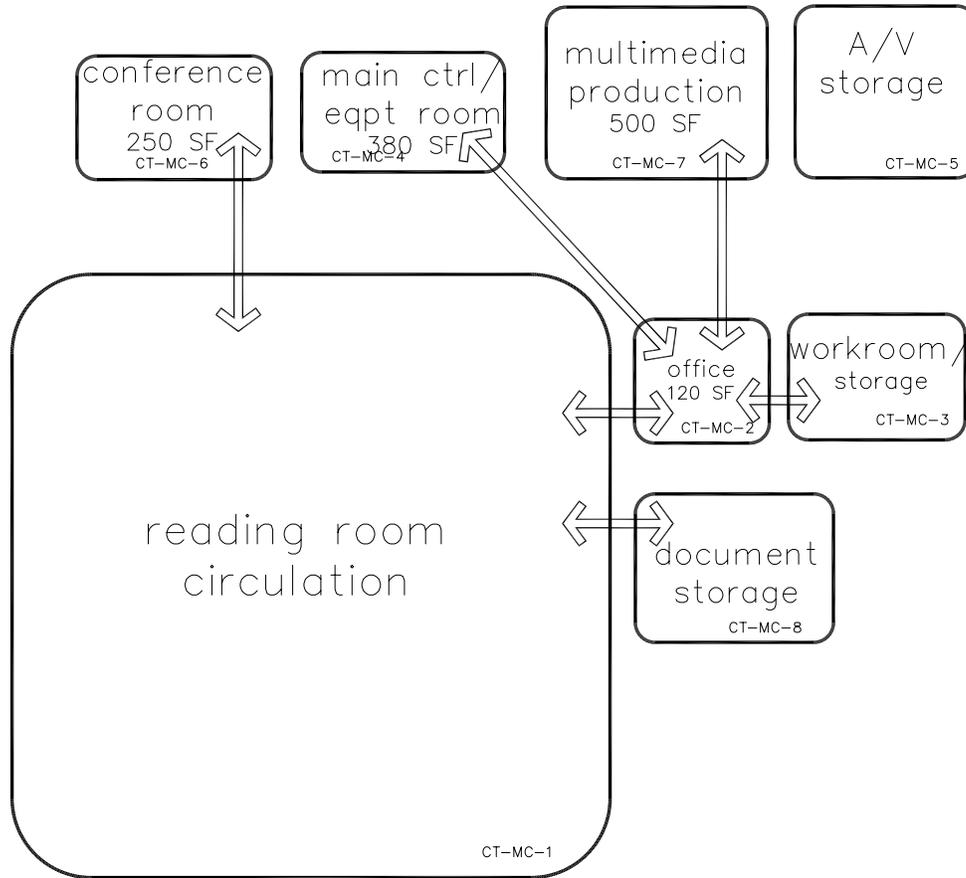
**IN-SCHOOL SUSPENSION
CT-AD-18**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

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



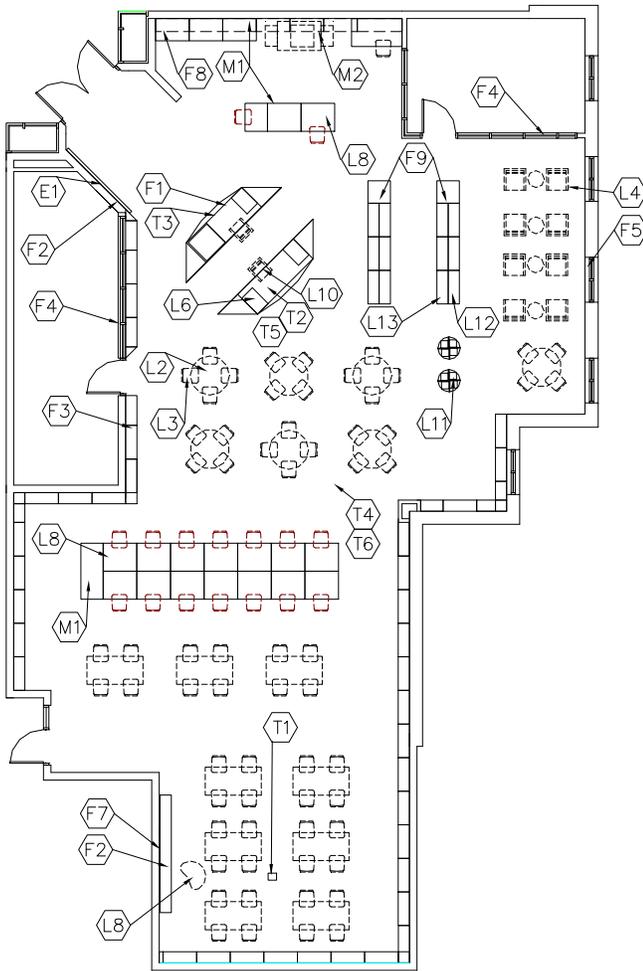
NOTE:

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:

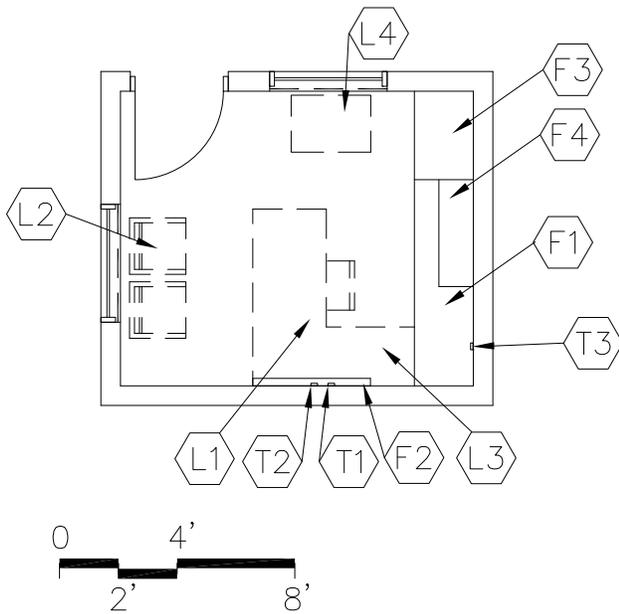
- Centrally located and accessible to all areas of the facility
- Locate with access to academic core classrooms
- Easy access to public parking

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.



PROGRAM ACTIVITIES:

- Media specialist to conduct duties

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY: 1 - 3 persons
SIZE: 120 SF

NOTES:

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

**MEDIA SPECIALIST OFFICE
CT-MC-2**

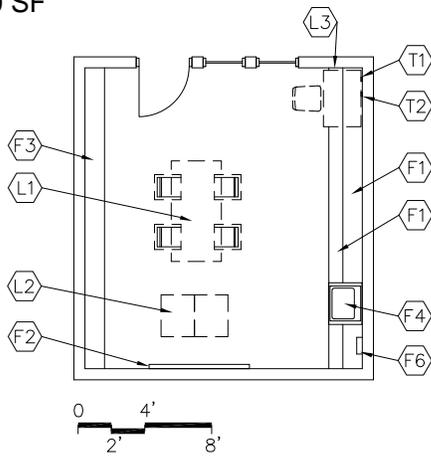
CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816	F1 Work surface with file drawers	123550
	096813	F2 4' of tack board or tackable wall surface	101100
<u>Base:</u>		F3 Tall wardrobe	123550
Resilient base	096500	F4 Wall cabinets	123550
<u>Ceiling:</u>		F5 Bookcases (optional)	123550
Suspended, acoustical	095113	<u>Fire Suppression:</u>	
<u>Walls:</u>		Fire suppression system	211000
Painted concrete masonry units	042000/099100	<u>Plumbing:</u>	
		N/A	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Desk and chair		Supply/return air system	Div. 23
L2 Visitor chairs		Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
L3 Computer desk return		<u>Electrical:</u>	
L4 File cabinet		Single level switching	262726
Wastebasket		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

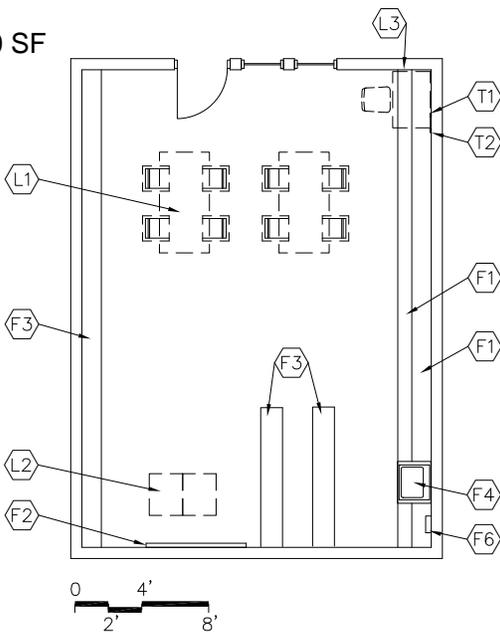
NOTES:

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: 2 - 8 staff
 SIZE: 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.

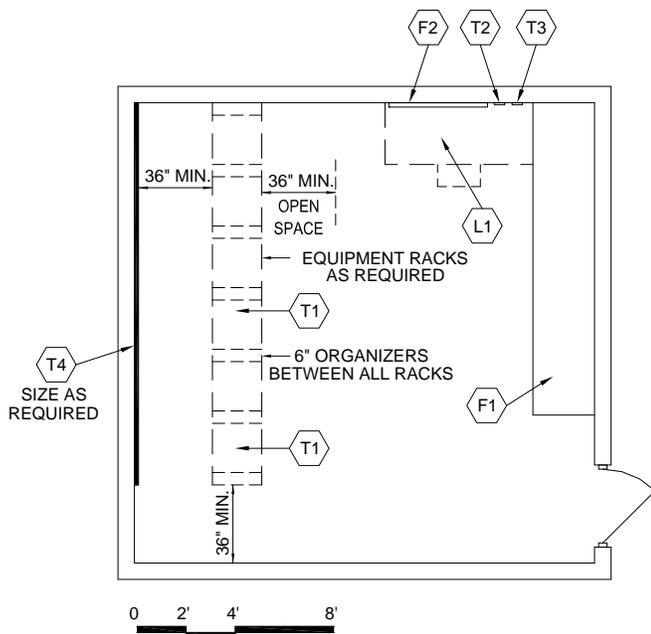
**WORKROOM/STORAGE
CT-MC-3**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items²:</u>	
Linoleum , rubber, <i>ET or sheet</i>	096500	F1 26'-50' combination base, wall	123550
Vinyl	096516	and tall cabinets	
Option: Carpet, carpet tile	096813	F2 4'-8' of tack board or marker board	101100
	096816	F3 16'-60' of bookcases	123550
		F4 3' sink base cabinet	123550
<u>Base:</u>		F5 Reserved	
Resilient base	096500	F6 Towel dispenser	102813
<u>Ceiling:</u>		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
<u>Walls:</u>		<u>Plumbing:</u>	
Painted concrete masonry units	042000/099100	Sink	224000
		Plumbing connections	224000/221116/221119
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Table and chairs		Supply/return air system	Div. 23
L2 Book trucks		Independent temperature control	230923
L3 Computer workstation		(coupled with similarly loaded 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**

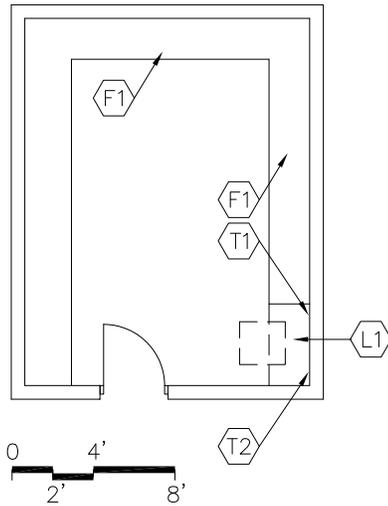
CHAPTER 6: CAREER-TECHNICAL SCHOOL

<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

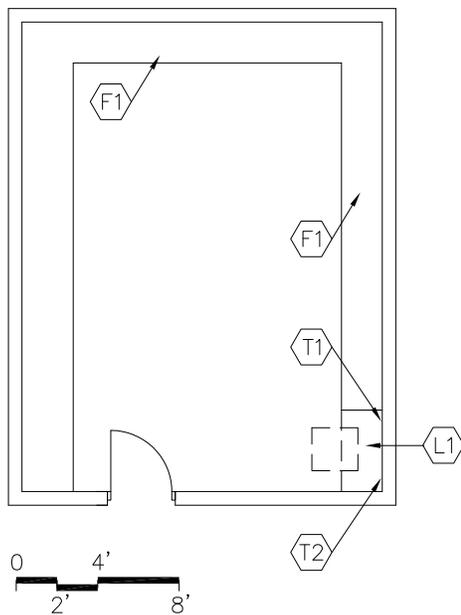
SPATIAL RELATIONSHIPS:

- Near media specialist office
- Near workroom/storage

ENVIRONMENTAL CONSIDERATIONS:

N/A

350 SF



CAPACITY:

N/A

SIZE:

250 - 350 SF

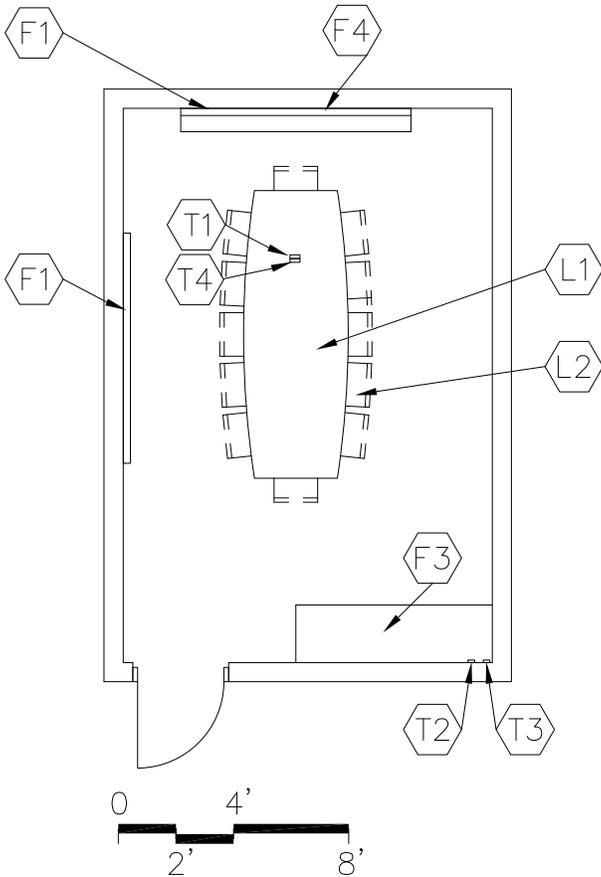
NOTES:

**A/V STORAGE
CT-MC-5**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
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	<u>Fire Suppression:</u>	
Ceiling:		Fire suppression system	211000
Suspended, acoustical	095113	<u>Plumbing:</u>	
Walls:		N/A	
Painted concrete masonry units	042000/099100	<u>HVAC:</u>	
<u>LOOSE FURNISHINGS:</u>		To be determined by Design Professional	
L1 Desk and chair		<u>Electrical:</u>	
Wastebasket		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		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.

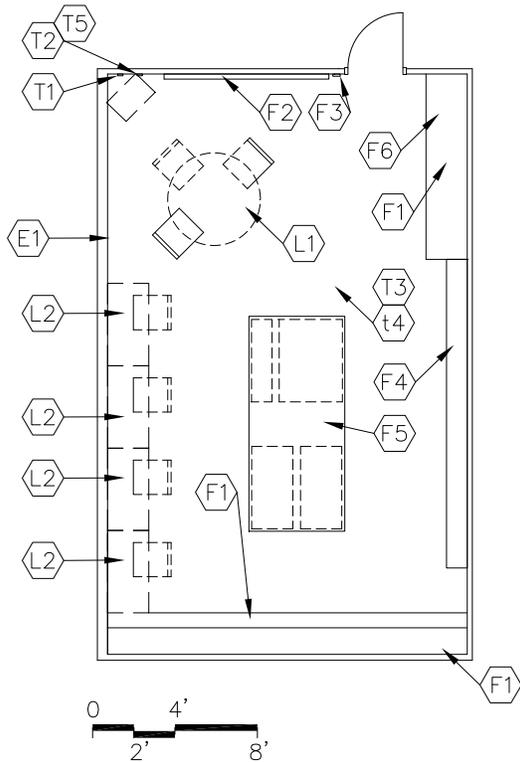
**CONFERENCE ROOM
CT-MC-6**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items²:</u>	
Carpet or Carpet Tile	096816	F1 14'-18' combination marker board, tack board and tackable wall surface	101100
	096813		
<u>Base:</u>		F2 Reserved	
Resilient base	096500	F3 4'-6' of base cabinets (optional) (fixed or mobile)	123550
<u>Ceiling:</u>		F4 Projection screen (optional)	115213
Suspended, acoustical	095113		
<u>Walls:</u>		<u>Fire Suppression:</u>	
Painted concrete masonry units	042000/099100	Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Conference table		N/A	
L2 Chairs		<u>HVAC:</u>	
Wastebasket		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: 5 - 7 persons
 SIZE: 500 - 800 SF

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Near workroom/storage
- Near media center

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

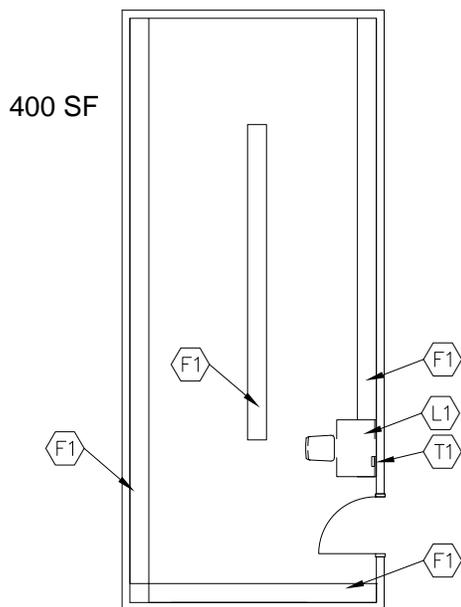
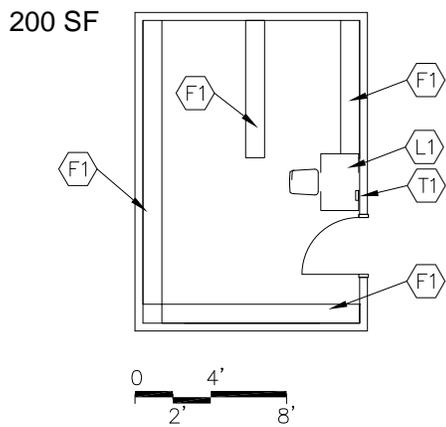
**MULTIMEDIA PRODUCTION ROOM
CT-MC-7**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items²:</u>	
Linoleum,	096500	F1 15'-45' combination base, wall and	
ET, sheet vinyl, or rubber	096516	tall cabinets	123550
Base:		F2 4'-8' of tack board or marker board	101100
Resilient base	096500	F3 Pencil sharpener support (optional)	062000
Ceiling:		F4 4' - 16' of tall bookcases	123550
Suspended, acoustical	095113	F5 Work surface	123550
Walls:		F6 Technology support casework	123550
Painted concrete masonry units		(if applicable)	
042000/099100		<u>Fire Suppression:</u>	
<u>LOOSE FURNISHINGS:</u>		Fire suppression system	211000
L1 Tables and chairs/stools		<u>Plumbing:</u>	
L2 Computer workstation furniture		N/A	
Wastebasket		<u>HVAC:</u>	
<u>Electronic Safety and Security:</u>		Supply/return air system	Div. 23
Life safety devices per code	283111	Independent temperature control	230923
<u>Miscellaneous:</u>		<u>Electrical:</u>	
Pencil sharpener (optional)		Multilevel switching	262726
Interior windows for supervision (optional)	081113/088000	Fluorescent lighting	265100
The following items to be provided by the school district:		Illumination level: See Table 8600-5	
Copier, scanner, printers, binders, laminators		4 duplex receptacles	262726
E1 Duplex receptacle with dedicated circuit for wireless devices		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 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:

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

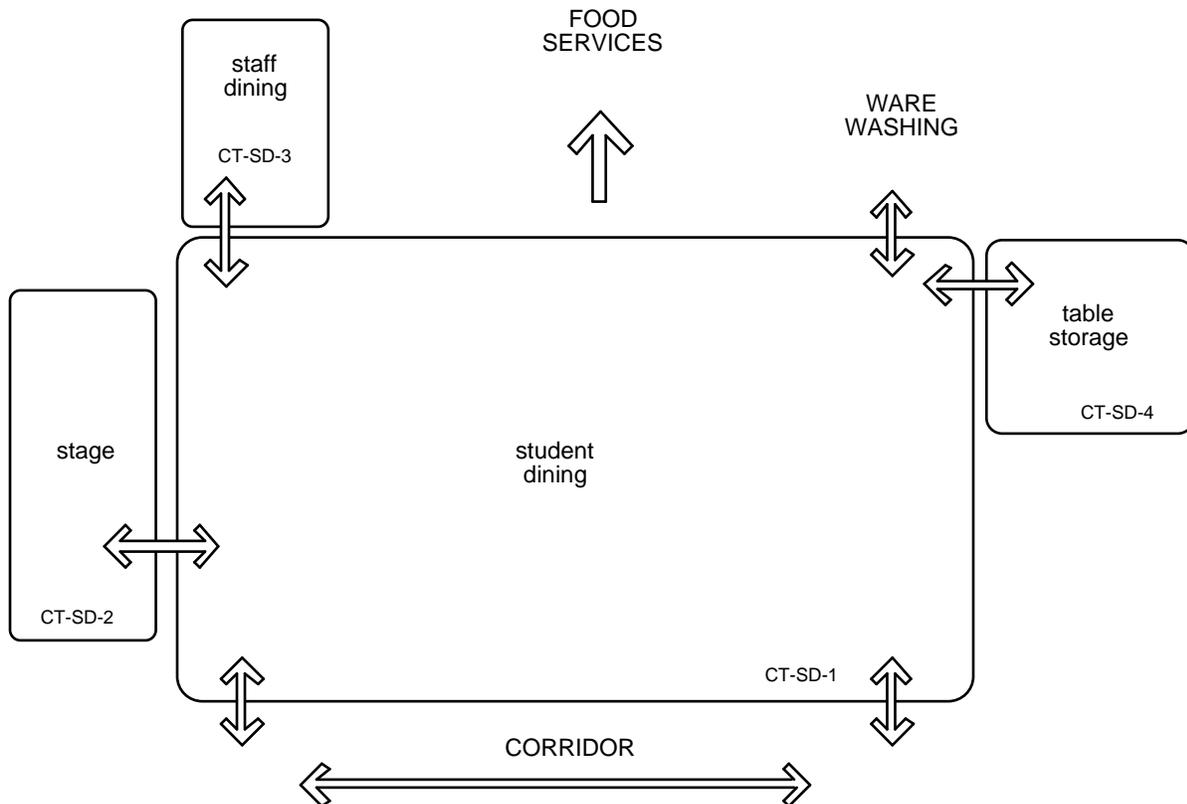
**DOCUMENT STORAGE
CT-MC-8**

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:		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Suspended, acoustical	095113	N/A	
Walls:		<u>HVAC:</u>	
Painted concrete masonry units	042000/099100	To be determined by Design Professional	
		Supplemental heat as required	Div. 23
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
L1 Computer worksurface		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.

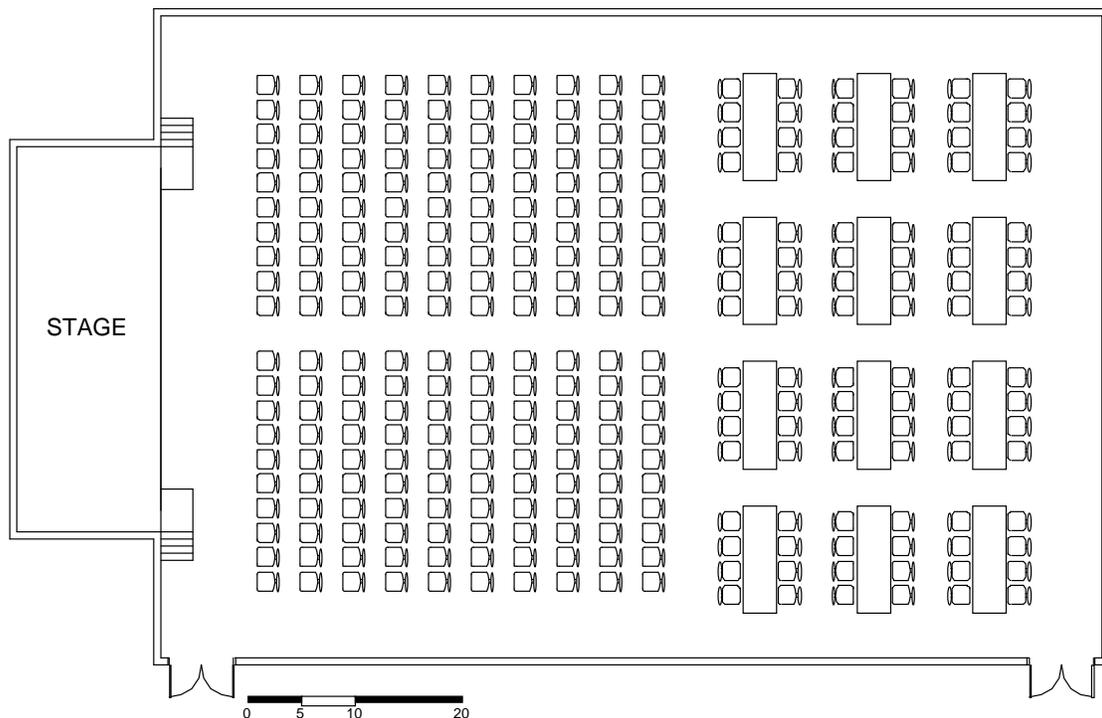
**NOTE:**

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:

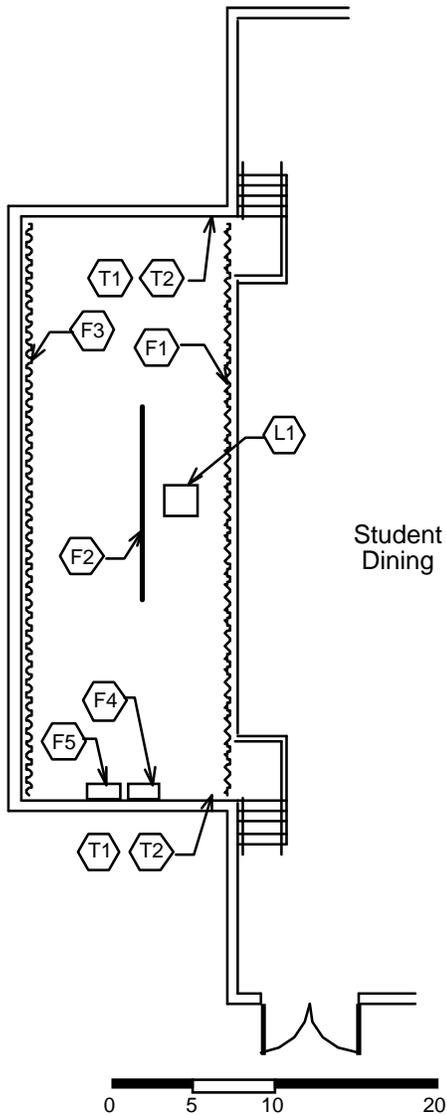
1. Loose furnishings shown represent one of many possible arrangements.

**STUDENT DINING
CT-SD-1**

<u>FINISHES¹:</u>	Spec. <u>Ref.#</u>	<u>FEATURES¹:</u>	Spec. <u>Ref.#</u>
Flooring:		Fixed Items:	
Linoleum, rubber, ET,	096500	N/A	
sheet vinyl, porcelain tile,	096516		
resinous flooring	033519	Fire Suppression:	
polished concrete finishing,	033510	Fire suppression system	211000
or colored concrete finishing	096723		
Base:		Plumbing:	
Resilient base	096500	N/A	
Option: Porcelain tile base	093000	HVAC:	
		Supply/return air system	Div. 23
		Independent temperature control	230923
Ceiling³:		Electrical:	
Suspended, acoustical	095113	High intensity discharge lighting	265100
Painted exposed structure	099100	or fluorescent lighting	
Reflector panels	098000	Dimmable quartz lighting	265100
		Illumination level: see table 8600-6	
Walls:		Multilevel switching with dimming	262726
Painted concrete masonry units	042000/099100	6 duplex receptacles	262726
Diffusing block on 2 walls		Double duplex receptacle adjacent to	
(minimum) or	042000	each data and video port	262726
Acoustic treatment	098000	Emergency lighting per code	265100
(varies with geometry of room)		Means of egress lighting per code	265100
		Telecommunications Grounding	270526/260526
LOOSE FURNISHINGS:		Communications:	
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.		Electronic Safety and Security:	
		Life safety devices per code	283111
		Miscellaneous:	
		N/A	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. 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:

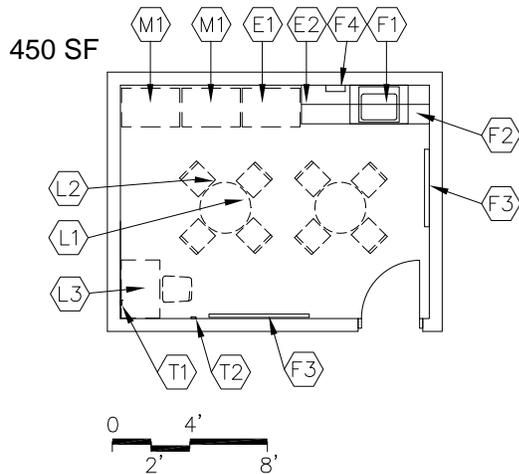
**STAGE
CT-SD-2**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Stage: Softwood or combination hardwood and softwood	096400	F1 Front curtain, track, and valance	116143
Stairs: Carpet, rubber, wood, or carpet tile	096816 096813	F2 Projection screen	116143
		F3 Rear curtain	116143
		F4 Sound control console	275121
		F5 Lighting control console	265100
<u>Base:</u>		<u>Fire Suppression:</u>	
Ventilated resilient base	096400	Fire suppression system	211000
<u>Ceiling:</u>		<u>Plumbing:</u>	
Painted exposed structure	099100	N/A	
<u>Walls:</u>		<u>HVAC:</u>	
Painted concrete masonry units	042000/099100	Supply/return air system	Div. 23
		Independent temperature control	230923
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
L1 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:

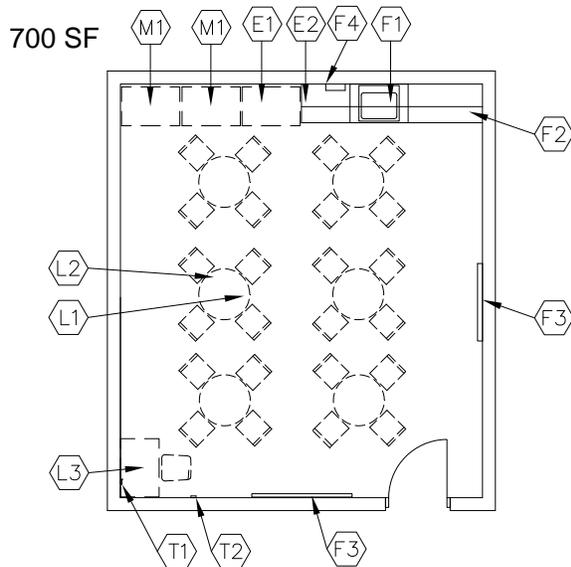
- Space for staff dining

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

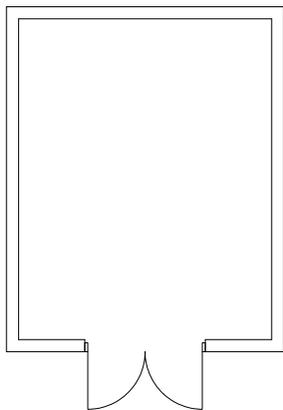
CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<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
<u>Base:</u>		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Optional: porcelain tile base	093000		
<u>Ceiling:</u>		<u>Plumbing:</u>	
Suspended, acoustical	095113	Sink	224000
		Plumbing connections	224000/221116/221119
<u>Walls:</u>		<u>HVAC:</u>	
Painted, concrete masonry units	042000/099100	Supply/return air system	Div. 23
		Independent temperature control	230923
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
L1 Tables		Single level switching	262726
L2 Chairs		Fluorescent lighting	265100
L3 Computer workstation		Illumination level: See Table 8600-6	
Waste receptacle		4 duplex receptacles	262726
		Double duplex receptacle adjacent to	
		each video port	262726
		Receptacles for vending machines,	
		refrigerator, and microwave	262726
<u>EQUIPMENT:</u>		<u>Communications:</u>	
E1 Refrigerator		T1 1 projector video port	271543
E2 Microwave		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	

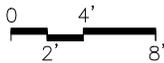
NOTES:

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

400 SF



Student Dining



PROGRAM ACTIVITIES:

- Storage for tables and chairs

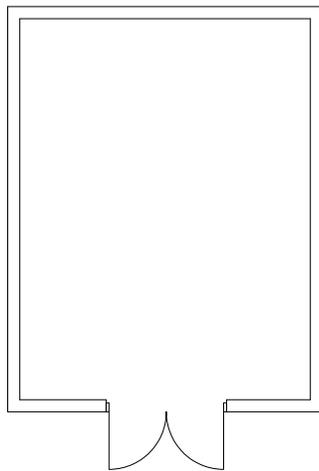
SPATIAL RELATIONSHIPS:

- Adjacent to student dining
- Near food services

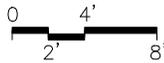
ENVIRONMENTAL CONSIDERATIONS:

N/A

550 SF



Student Dining



CAPACITY:

SIZE:

ANCILLARY SPACES:

N/A

400 - **700** SF

Student Dining

CT-SD-1

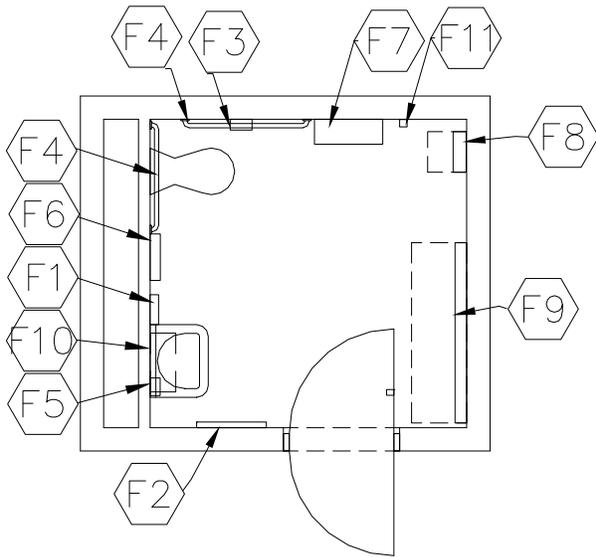
NOTES:

**TABLE STORAGE
CT-SD-4**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Sealed concrete	093000	N/A	
Base:		<u>Fire Suppression:</u>	
No base		Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Exposed structure		N/A	
Option: Rated gypsum wallboard	092116		
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: 2 people
SIZE: 80 SF

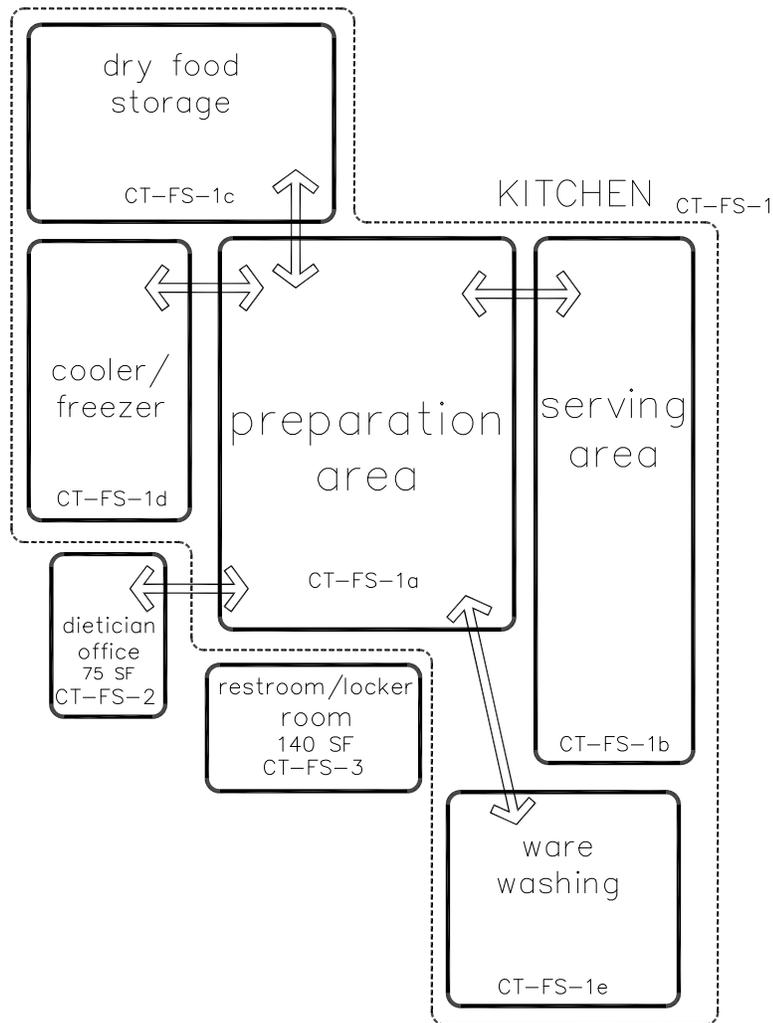
NOTES:

**FAMILY RESTROOM
CT-SD-5**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<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
<u>Base:</u>		F7 Folding utility shelf	102813
Resilient base	096500	F8 Mounted child seat	102813
Optional: Ceramic mosaic tile,	093000	F9 Adult/child changing station	102813
porcelain tile, resinous flooring	096723	F10 16" x 24" mirror with shelf	102813
flooring, or integral vinyl cove base		F11 Coat hooks	102813
		<u>Fire Suppression:</u>	
<u>Ceiling:</u>		Fire suppression system	211000
Suspended, acoustical	095113		
		<u>Plumbing:</u>	
<u>Walls:</u>		Wall-mounted water closet	224000
Painted concrete masonry units	042000/099100	Wall-mounted lavatory	224000
		Plumbing connections	224000/221116/221119
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
Wastebasket		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		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:

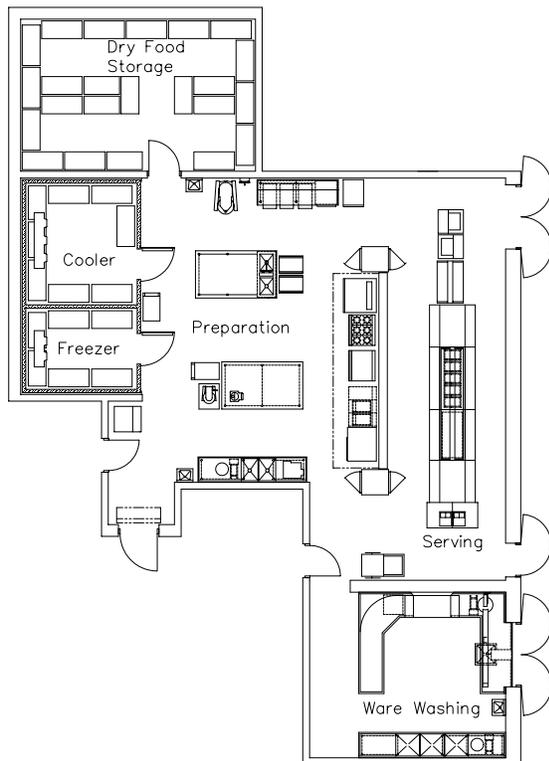
- CT-FS-0 Warming Kitchen
- CT-FS-1 Kitchen
- CT-FS-1a Preparation Area
- CT-FS-1b Serving Area
- CT-FS-1c Dry Food Storage
- CT-FS-1d Cooler/Freezer
- CT-FS-1e Ware Washing
- CT-FS-2 Custodial Closet
- CT-FS-3 Dietician Office
- CT-FS-4 **Restroom/Locker Room**

**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:

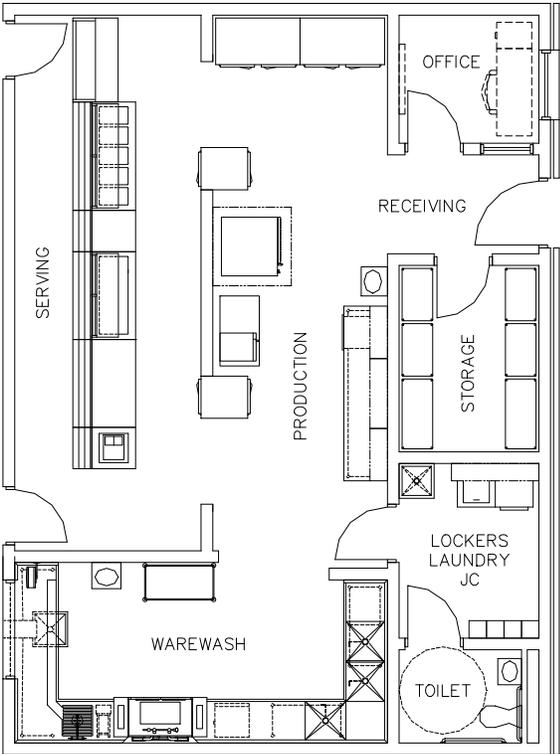
This kitchen layout is to be used only for a central kitchen operation.

This space consists of various areas:

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

Additional areas to be added:

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



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

- Compliance with State Board of Health requirements

MISCELLANEOUS:

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

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

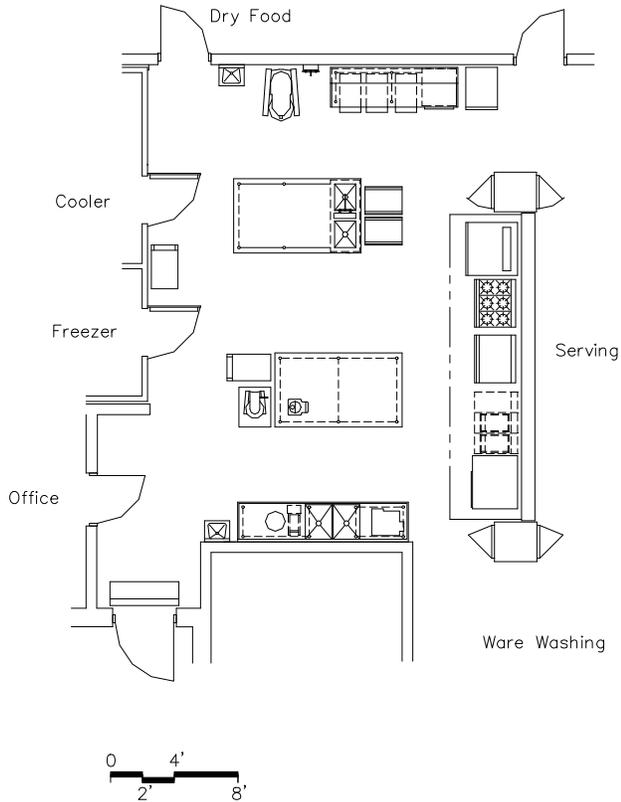
NOTES:

**WARMING KITCHEN
CT-FS-0**

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

NOTES:

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



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.

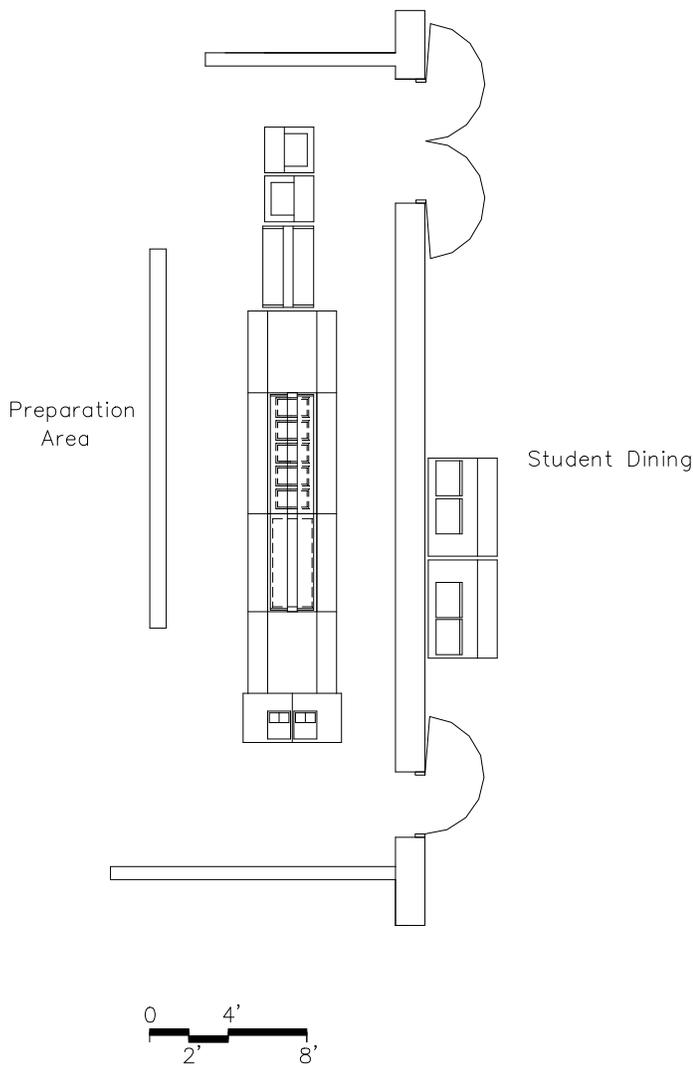
**KITCHEN - Preparation Area
CT-FS-1a**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Quarry tile <i>or</i> resinous flooring	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 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.



PROGRAM ACTIVITIES:

- Space for serving of food

SPATIAL RELATIONSHIPS:

- Adjacent to student dining
- Adjacent to preparation area

ENVIRONMENTAL CONSIDERATIONS:

- Cleanable building services

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

NOTES:

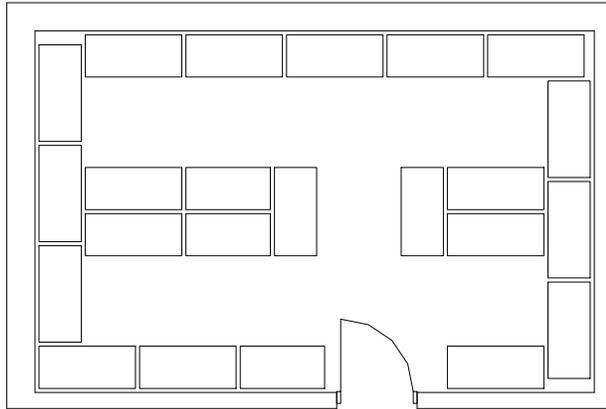
1. This is an example of a serving area. Food service equipment will vary from school district to school district.

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

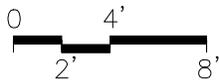
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		Fixed Equipment:	
Quarry tile	093000	Food service equipment	114000
Optional: porcelain tile <i>or</i> <i>resinous flooring</i>	096723		
Base:		<u>Fire Suppression:</u>	
Quarry tile base	093000	Fire suppression system	211000
Optional: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

NOTES:

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



Preparation Area



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

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

- Continuous conditioning of air
- Cleanable building surfaces

NOTES:

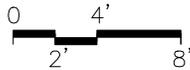
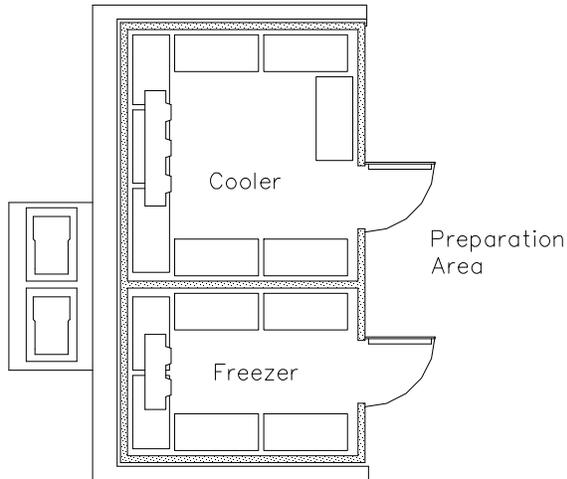
1. This is an example of a dry food storage area. Food service equipment will vary from school district to school district.

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

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Linoleum, ET, or sheet vinyl	096500	Food service equipment	114000
Option: Quarry tile or resinous flooring	093000 096516 096723	<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>Base:</u>		<u>Plumbing:</u>	
Resilient base	096500	N/A	
Option: Quarry tile	093000	<u>HVAC:</u>	
<u>Ceiling:</u>		Exhaust air system	Div. 23
Cleanable, suspended, acoustical	095113	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:

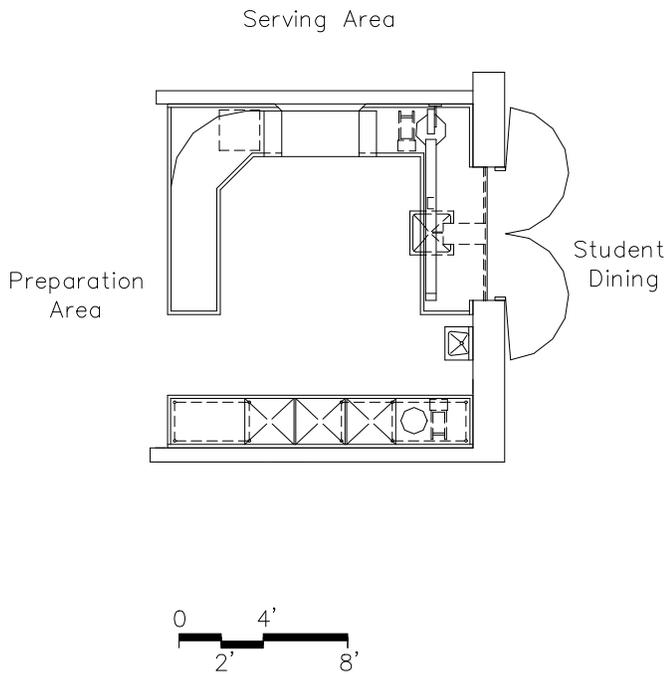
1. This is an example of a cooler/freezer. Food service equipment will vary from school district to school district.

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

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Quarry tile or resinous flooring	093000 096723	Food service equipment	114000
<u>Base:</u>		<u>Fire Suppression:</u>	
Quarry tile base or integral base	093000	Fire suppression system	211000
<u>Ceiling:</u>		<u>Plumbing:</u>	
Manufactured insulated panel	114000	N/A	
<u>Walls:</u>		<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:

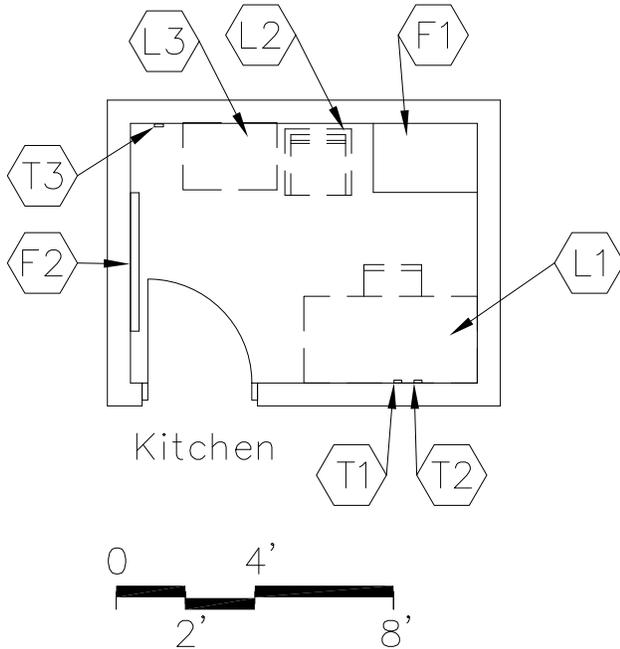
1. This is an example of a ware washing area. Food service equipment will vary from school district to school district.

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

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

NOTES:

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



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Adjacent to kitchen

ENVIRONMENTAL CONSIDERATIONS:

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

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

NOTES:

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

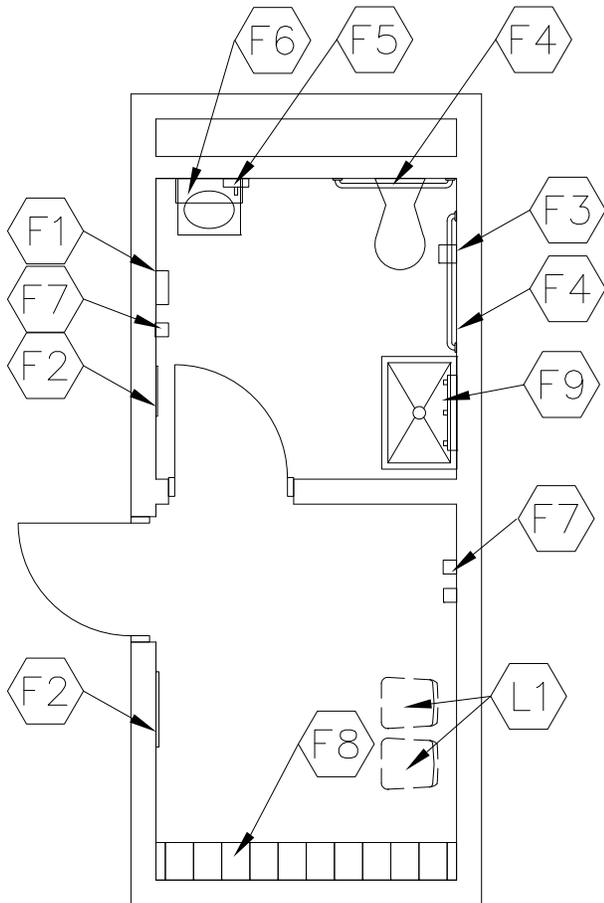
**DIETICIAN'S OFFICE
CT-FS-2**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>			
Linoleum, ET, or sheet vinyl	096500	<u>Fixed Items:</u>	
	096516	F1 Tall wardrobe (optional)	123550
Option: Quarry tile, or resinous flooring	093000	F2 4' of tack board	101100
	096723	<u>Fire Suppression:</u>	
<u>Base:</u>		Fire suppression system	211000
Resilient base	096500	<u>Plumbing:</u>	
Option: Quarry tile	093000	N/A	
<u>Ceiling:</u>		<u>HVAC:</u>	
Suspended, acoustical	095113	Supply/return air system	Div. 23
<u>Walls:</u>		Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
Painted concrete masonry units	042000/099100	<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.



CAPACITY: 2 persons
 SIZE: 140 SF
 ANCILLARY SPACES:

PROGRAM ACTIVITIES:

- Personal and health needs for food service staff

SPATIAL RELATIONSHIPS:

- Adjacent to kitchen

ENVIRONMENTAL CONSIDERATIONS:

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

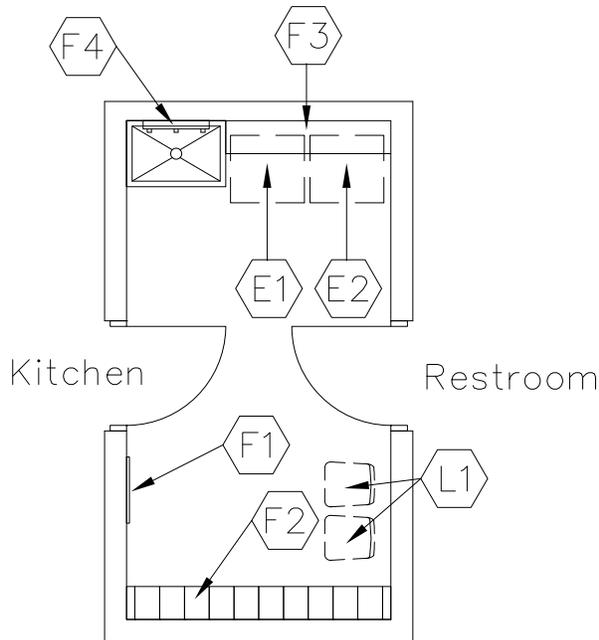
NOTES:

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

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	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 resinous flooring	093000 096723	F3 Toilet tissue holder	102813
		F4 36" and 42" grab bar	102813
		F5 Soap dispenser	102813
<u>Base:</u>		F6 Mirror with shelf above sink(optional)	102813
Resilient base	096500	F7 Coat hooks	102813
Optional: quarry tile, integral vinyl cove base, or resinous flooring	093000 096723	F8 Lockers 12" x 12" x 60"	105113
		F9 Mop holder	102813
<u>Ceiling:</u>		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
<u>Walls:</u>		<u>Plumbing:</u>	
Painted concrete masonry units	042000/099100	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:

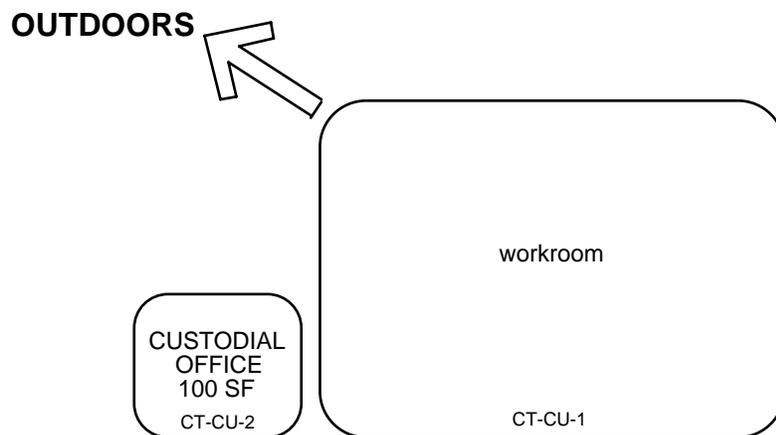
1. Loose furnishings shown represent one of many possible arrangements.

**LOCKER ROOM
CT-FS-4**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Sheet vinyl, rubber, rubber tile, or resinous flooring	096500 096723	F1 24" x 60" mirror (optional)	102813
		F2 Lockers 12" x 12" x 60"	105113
		F3 6' of wall cabinets or shelf (optional)	123550
		F4 Mop holder	102813
<u>Base:</u>		<u>Fire Suppression:</u>	
Resilient base, resinous flooring, or integral vinyl cove base	096500 096723	Fire suppression system	211000
<u>Ceiling:</u>		<u>Plumbing:</u>	
Suspended, acoustical with high-impact, hold-down clips	095113	Plumbing connections	224000/221116/221119
Option: exposed, painted pre-cast units	099100	Floor service sink	224000
		Washer connection	224000
<u>Walls:</u>		<u>HVAC:</u>	
Painted concrete masonry units	042000/099100	Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		Dryer vent system	Div. 23
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
L1 Chairs		Single level switching	262726
Wastebasket		Fluorescent lighting	265100
		Illumination level: See Table 8600-6	
		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:**

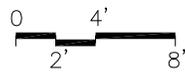
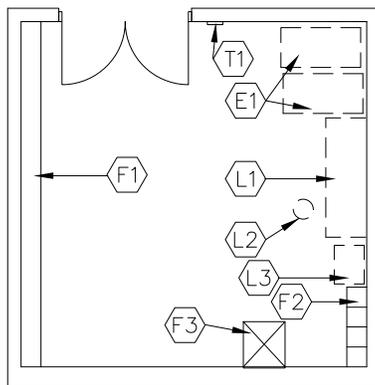
This is an example of how the custodial spaces in a career-technical school could be arranged. This is meant only to demonstrate the relationships between various spaces of this area.

Following are the Custodial space plates:

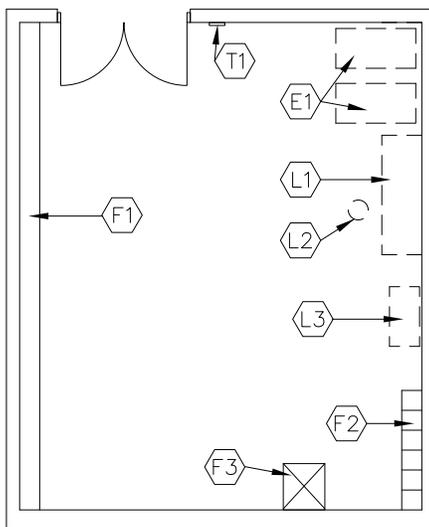
- CT-CU-1 Workroom
- CT-CU-2 Custodial Office

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200 SF



400 SF



CAPACITY:
SIZE:

N/A
200 - **800** SF

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Near central storage area
- Near custodial office

ENVIRONMENTAL CONSIDERATIONS:

N/A

NOTES:

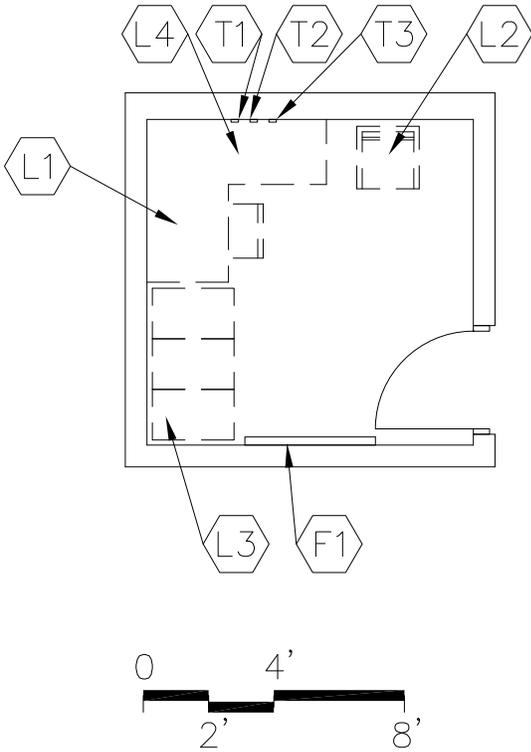
1. Loose furnishings shown represent one of many possible arrangements.

**WORKROOM
CT-CU-1**

<u>FINISHES¹:</u>	Spec. <u>Ref.#</u>	<u>FEATURES¹:</u>	Spec. <u>Ref.#</u>
<u>Flooring:</u>			
Polished concrete finishing,	033510	<u>Fixed Items²:</u>	
colored concrete finishing, or	033519	F1 10' - 24' of open shelving,	123550
sealed concrete	093000	depths can vary (fixed or loose)	105113
		F2 4 - 6 lockers	102813
		F3 Mop holder	
<u>Base:</u>			
Resilient base	096500	<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>Ceiling:</u>			
Suspended, acoustical	095113	<u>Plumbing:</u>	
		Floor service sink	224000
<u>Walls:</u>			
Painted concrete masonry units	042000/099100	<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Independent temperature control	230923
<u>LOOSE FURNISHINGS:</u>			
L1 Workbench		<u>Electrical:</u>	
L2 Stool		Fluorescent lighting	265100
L3 Tool cabinet		Illumination level: See Table 8600-6	
Waste receptacles		Single level switching	262726
		4 duplex receptacles (minimum)	262726
		Electrical receptacles for custodial equipment	262726
<u>EQUIPMENT:</u>			
E1 Recycling bins		<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: N/A
SIZE: 100 - 400 SF

NOTES:

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

**CUSTODIAL OFFICE
CT-CU-2**

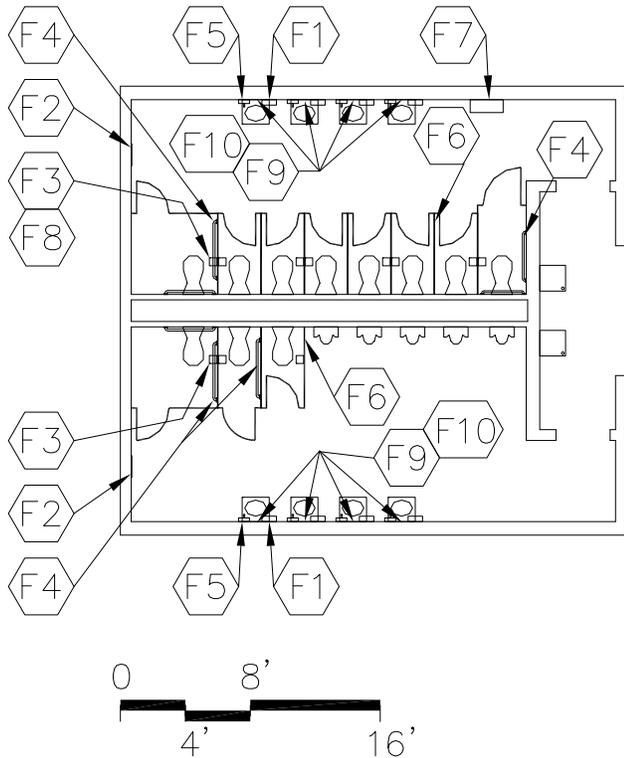
CHAPTER 6: CAREER-TECHNICAL SCHOOL

	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		
colored concrete finishing, or	033519	<u>Fire Suppression:</u>	
resinous flooring	096723	Fire suppression system	211000
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:

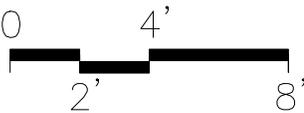
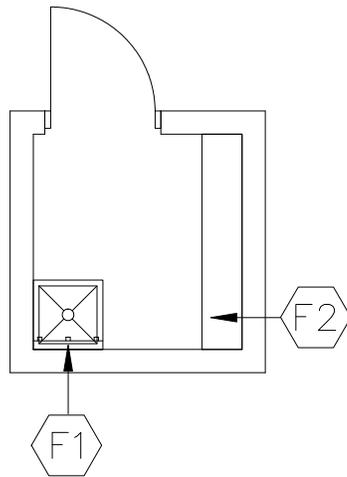
1. Where individual restrooms are provided in lieu of large group restrooms, refer to **CT-GS-8**.

**LARGE GROUP RESTROOMS
CT-GS-1**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Ceramic mosaic tile	093000	F1 Towel dispensers	102813
Optional: porcelain tile, rubber, resinous flooring, or unbacked sheet vinyl with welded seams	093000 096723 096500	F2 24" x 60" mirror	102813
		F3 Toilet tissue holders	102813
		F4 36" and 42" grab bar	102813
		F5 Soap dispensers	102813
		F6 Toilet partitions	102113
<u>Base:</u>		F7 Sanitary product dispenser	102813
Ceramic mosaic tile base	093000	F8 Sanitary product receptacles	102813
Optional: structural glazed tile, porcelain tile base, resinous flooring, or integral tile base	096616 093000 096723 096500	F9 16" x 24" mirrors with shelf (optional)	102813
		F10 Shelves (optional)	123550
		<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>Ceiling:</u>		<u>Plumbing:</u>	
Suspended, acoustical	095113	Wall-mounted water closets	224000
Option: Abuse resistant gypsum wallboard	092116	Wall-mounted urinals	224000
		Wall-mounted lavatories or wash fountains	224000
<u>Walls:</u>		Wall hydrants	224000
Painted concrete masonry unit	042000/099100	Plumbing connections	224000/221116/221119
		Floor drains	Div. 22
<u>LOOSE FURNISHINGS:</u>		Drinking water cooler	224000
Waste Receptacles		<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:

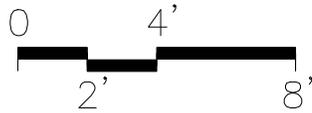
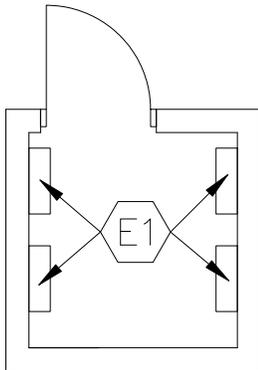
**CUSTODIAL CLOSET
CT-GS-2**

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

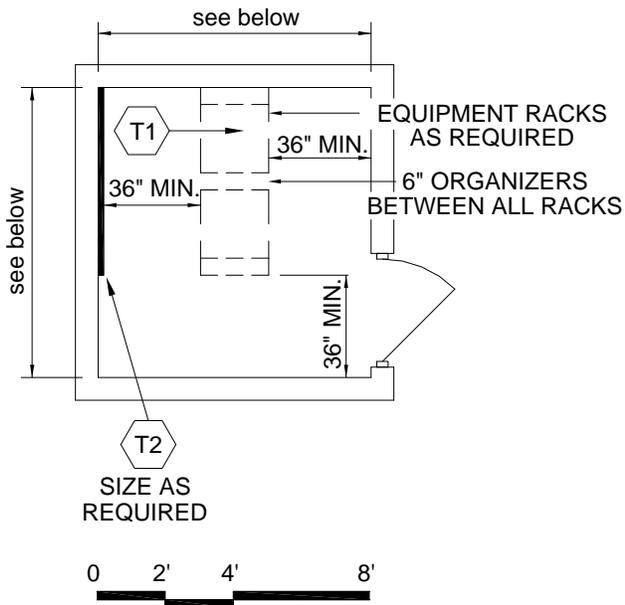
NOTES:

**ELECTRICAL CLOSET
CT-GS-3**

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

NOTES:

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



PROGRAM ACTIVITIES:

- Space for technology needs

SPATIAL RELATIONSHIPS:

N/A

ENVIRONMENTAL CONSIDERATIONS:

N/A

CAPACITY:

N/A

SIZE:

TR Serving Zone > 188 ports:

minimum 10 ft. x 12 ft.

TR Serving Zone of 96-188 ports:

minimum 8 ft. x 10 ft.

TR Serving Zone of < 96 ports:

minimum 8 ft. x 8 ft.

NOTES:

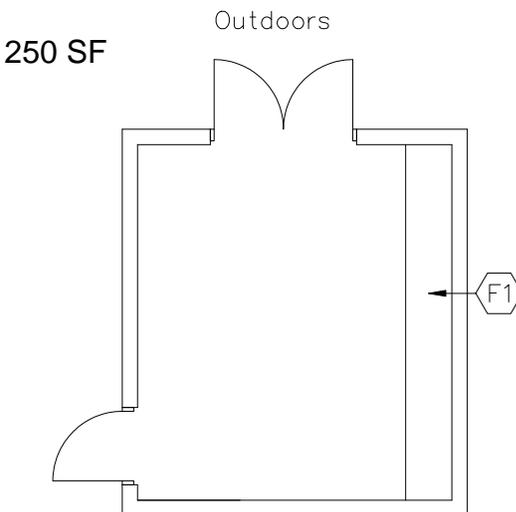
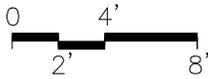
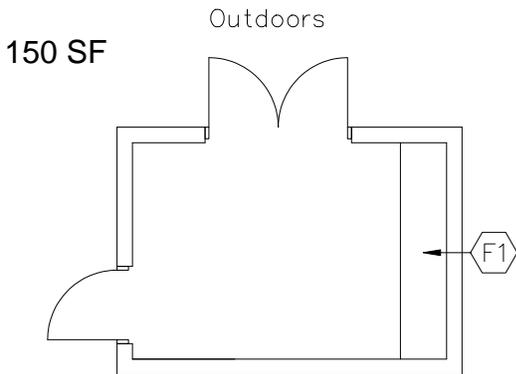
1. This is an example of a telecommunications room. The equipment and layout will vary from school district to school district.
2. **Verify and coordinate TR quantity, size and location with technology designer during programming phase.**
3. **Multiple TR's may be required.**

**TELECOMMUNICATIONS ROOM
CT-GS-4**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
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
		Fluorescent lighting	265100
		Illumination level: See Table 8600-6	
		1 duplex receptacle	262726
		Receptacles for data equipment	262726
		Telecommunications Grounding	270526/260526
		Standby power	263213/263600
<u>LOOSE FURNISHINGS</u>		<u>Communications:</u>	
N/A		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.



CAPACITY: N/A
 SIZE: 150 - 500 SF

PROGRAM ACTIVITIES:

- Space for storage of outdoor custodial equipment

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

N/A

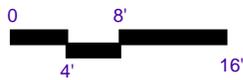
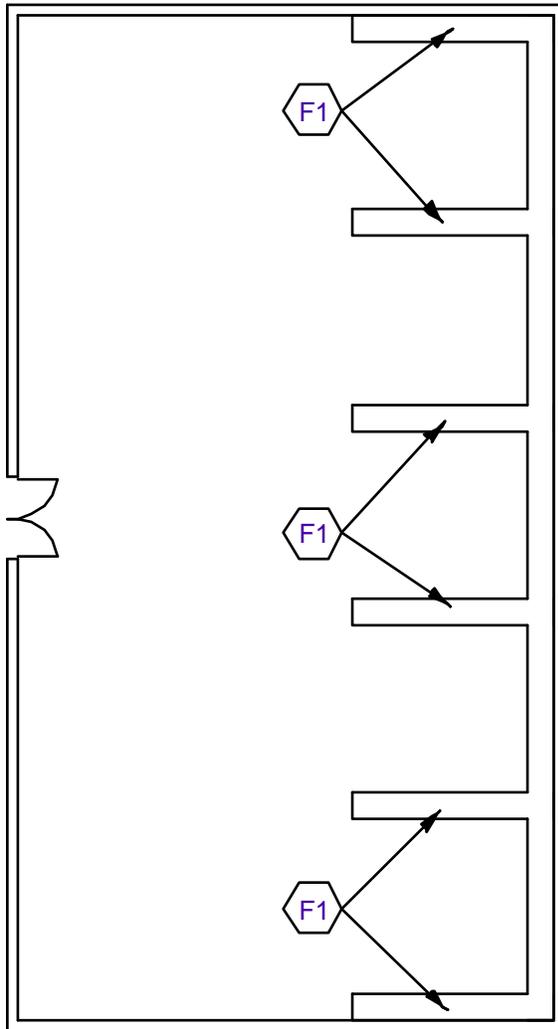
NOTES:

**STORAGE AREA
CT-GS-5**

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

NOTES:

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



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**

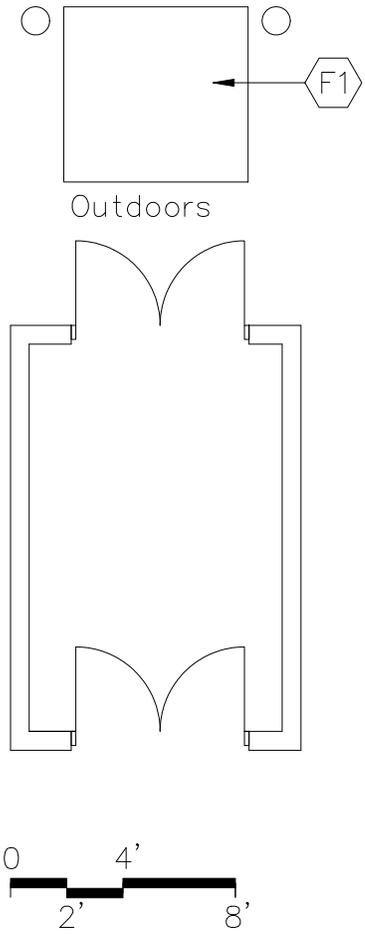
CHAPTER 6: CAREER-TECHNICAL SCHOOL

<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		<u>Fire Suppression:</u>	
Ceiling:		Fire suppression system	211000
Exposed structure	---	<u>Plumbing:</u>	
Walls:		N/A	
Unpainted concrete masonry units	042000	<u>HVAC:</u>	
<u>LOOSE FURNISHINGS:</u>		Exhaust air system	Div. 23
N/A		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-6	
		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:

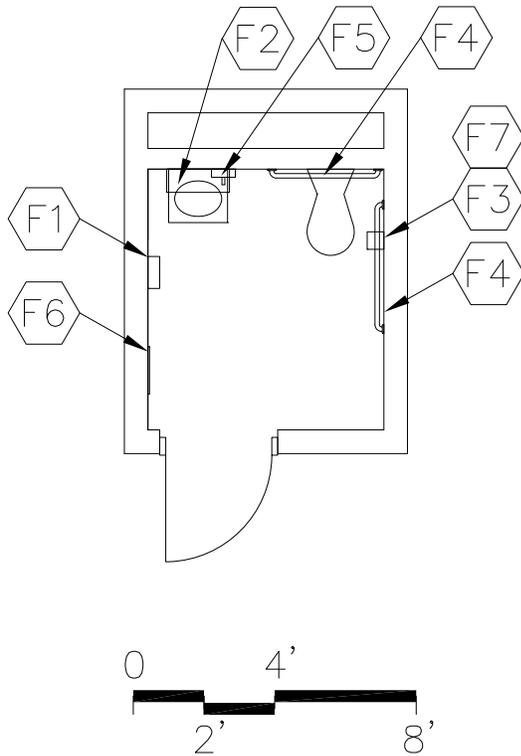
**LOADING/RECEIVING AREA
CT-GS-7**

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.



PROGRAM ACTIVITIES:

- Personal and health needs for the building occupants

SPATIAL RELATIONSHIPS:

- Near academic area

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY: 1 person
 SIZE: 60 SF
 ANCILLARY SPACES:

NOTES:

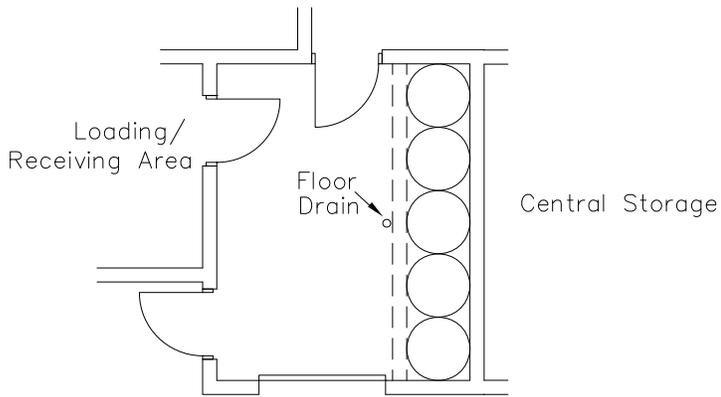
1. Separate restrooms must be provided for male and female students

**RESTROOM
CT-GS-8**

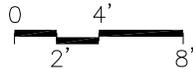
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
ET or sheet vinyl	096516	F1 Towel dispenser	102813
	096500	F2 Mirror with shelf above sink(optional)	102813
Optional: quarry tile, or	093000	F3 Toilet tissue holder	102813
resinous flooring	096723	F4 36" and 42" grab bar	102813
		F5 Soap dispenser	102813
<u>Base:</u>		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
<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.
2. F6 and F7 required for female restroom only.



Direct access to loading dock, if possible



CAPACITY: N/A
SIZE: 80 - 160 SF

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

N/A

MISCELLANEOUS:

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

NOTES:

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

RECYCLING ROOM
CT-GS-9

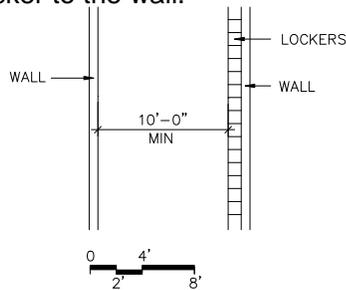
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Sealed concrete	033000	<u>Fire Suppression:</u>	
Base:		Fire suppression system	211000
No base		<u>Plumbing:</u>	
Ceiling:		Floor drain	
Exposed structure		<u>HVAC:</u>	
Walls:		Exhaust air system	Div. 23
Epoxy-painted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

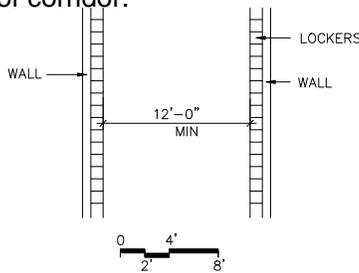
1. Finishes/Features: Refer to Chapter 9 for specification references.

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:

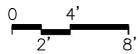
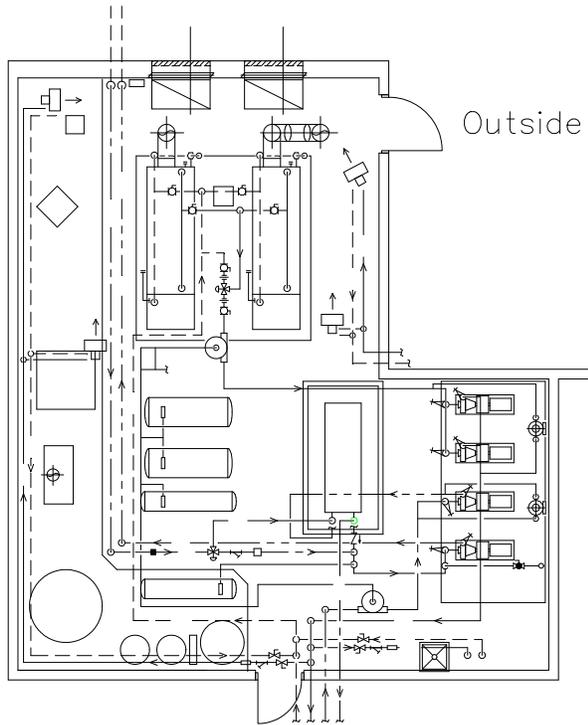
**CORRIDORS
CT-BS-1**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<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		
<u>Base:</u>		<u>Fire Suppression:</u>	
Resilient base	096500	N/A	
Optional: structural glazed tile	042000	<u>Plumbing:</u>	
		Drinking water coolers	224000
<u>Ceiling:</u>		<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
<u>Walls:</u>		<u>Electrical:</u>	
Painted concrete masonry units	042000/099100	Dual level switching	262726
		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
<u>NOTE: At entries adjacent to dining/ commons area, match dining/commons flooring.</u>		<u>Communications:</u>	
		Video ports	271543
		Data ports	271523
		Pay phone terminals	271513/273113
		Central sound system	275123
		Clocks	275313
		Wireless access points	271523/272100/272133
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		Security System	281300/281600/282300
		<u>Miscellaneous:</u>	
		Display cases and Directory	

NOTES:

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

**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**

<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.