

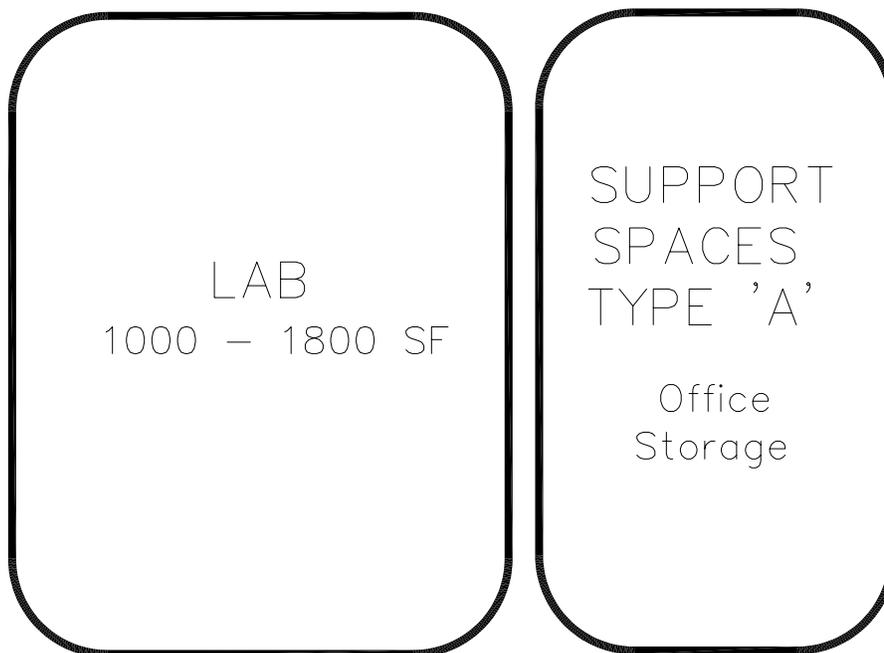
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Program Type 1

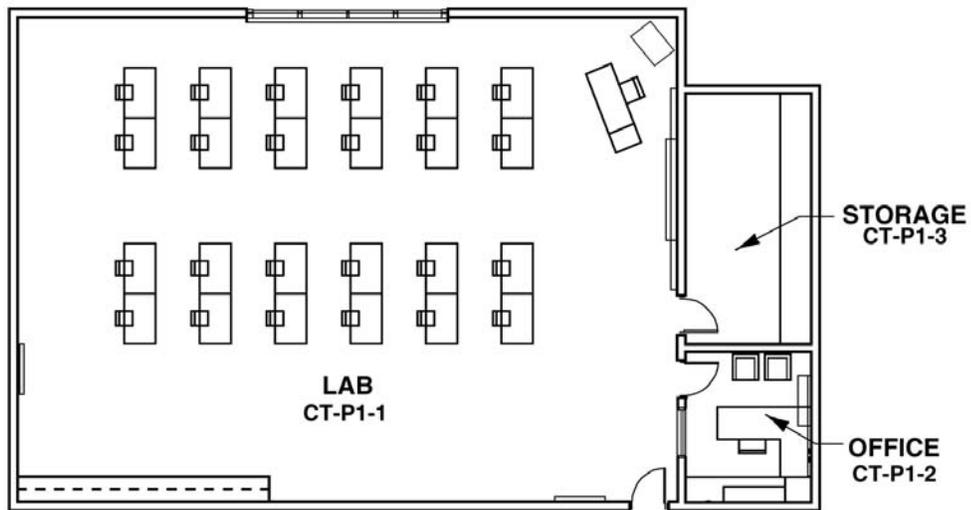
Description: Small to medium sized lab space with typical support space. Lab and support space to have finished floor, painted walls, and suspended acoustical ceiling.

**NOTES:**

This is an example of how the Program Type 1 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 Program Type 1 space plates:

- CT-P1-1 Lab
- CT-P1-2 Office
- CT-P1-3 Storage

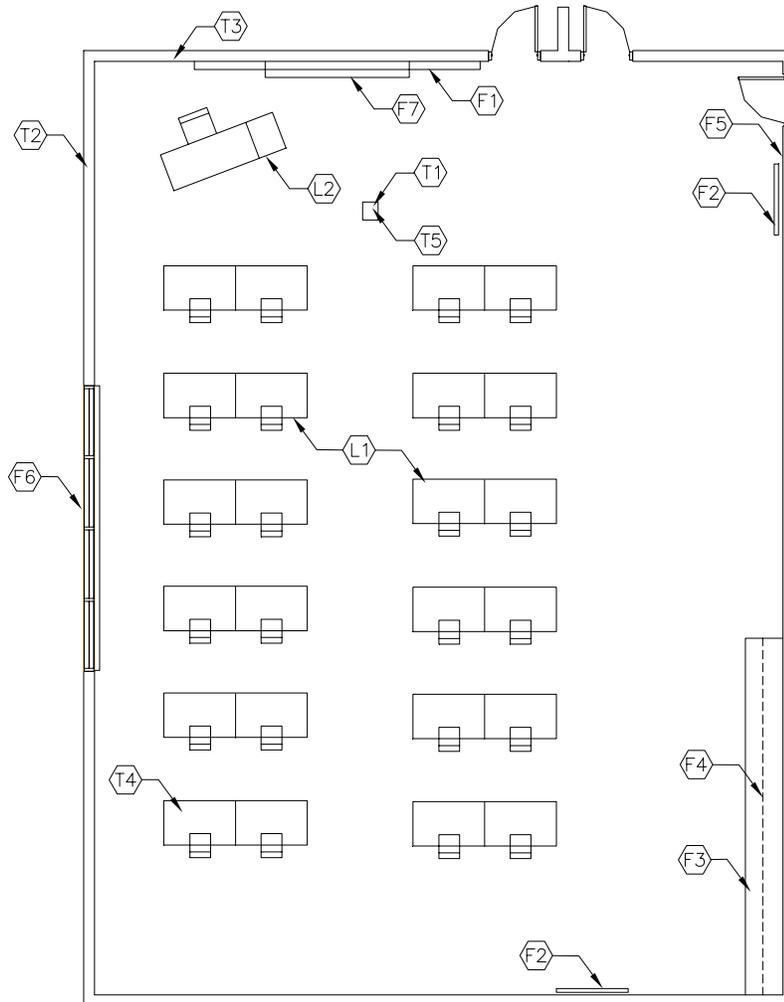


Program Type 1

This is an example to show the possible relationships of spaces for this program type.

NOTES:

1. See lab descriptions within this section for specific lab requirements.
2. See individual space plates at the end of this section for specific requirements for the storage room and office.



CAPACITY:	24 Students
SIZE:	1,000 – 1,800 SF
	(see lab summaries for exact sizes)
ANCILLARY SPACES:	CT-P1-2 and CT-P1-3

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.
2. Graphic plate is an example only. Other labs within this program are not drawn – refer to lab summaries within this program type for information on a particular lab.

PROGRAM ACTIVITIES:

- Large and small group instruction
- Group and individual work
- Demonstrations

SPATIAL RELATIONSHIPS:

- Near other related labs
- Adjacent to typical support spaces
- Proximity to large group restrooms
- Located away from noisy or public activities
- Proximity to core academic area and common use areas
- Flexibility of space

ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting with 80% visual comfort probability level.
- Optional: Natural light opening equal to 5% minimum of floor area, with an operable vent
- Environmental sound control -
walls minimum STC 50
ceiling minimum CAC 35, NRC **0.70**
- Flexibility of space

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Loose Furnishings: Refer to Lab Profiles within this section.
3. Loose Furnishings, fixed equipment, utility locations, and general footprint of room shown represent one of many possible arrangements.

PROGRAM DESCRIPTION:		FEATURES¹:	
Planned learning experiences that include a combination of courses and practical experiences concerned with systematizing information about transactions and activities into accounts and quantitative records, and paying and receiving money.		<u>Fixed Items:</u>	
Program Type:	1	F1	16' of chalk/marker board 101100
Size Requirements:	1,200 SF Lab	F2	8' of tack board 101100
Lab Requirements:		F3	20' of base cabinets 123550
		F4	20' of wall cabinets 123550
		F5	Pencil sharpener support 062000
		F6	Windows with integral blinds 085113
		F7	Projection screen, 6'x8' 115213
		<u>Fire Suppression:</u>	
			Fire suppression system 211000
		<u>Plumbing:</u>	
		N/A	
FINISHES:		<u>HVAC:</u>	
<u>Flooring:</u>			
Carpet	Spec. 096816		Supply/return air system Div. 23
Optional: vinyl composition tile, VET, sheet vinyl, or linoleum	Ref # 096500		Independent temperature control 230923
	096516		
<u>Base:</u>		<u>Electrical:</u>	
Resilient	096500		Fluorescent lighting, parabolic lenses:265100
			Illumination level: See Table 8600-4
<u>Ceiling:</u>			Multilevel switching 262726
Suspended acoustical	095113		6 duplex receptacles 262726
			Double duplex receptacle adjacent to each data and video port 262726
<u>Walls:</u>		<u>Communications:</u>	
Painted concrete masonry units	042000/ 099100	T1	1 video port 271533/271543
		T2	1 voice port and phone 271513/273113
		T3	1 data port near teacher workstation 271513
		T4	26 data ports 271513
			Clock 275313
			Central sound system 275123
			Sound reinforcement system 275127
		T5	Overhead projector 274119
LOOSE FURNISHINGS:		<u>Electronic Safety and Security:</u>	
L1 (24) Computer workstation furniture & chairs			Life safety devices per code 283111
L2 (1) Teacher station & chair		<u>Miscellaneous:</u>	
Wastebasket		N/A	
Pencil sharpener			

NOTES:

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

**ADMINISTRATIVE/OFFICE TECHNOLOGY
LEGAL OFFICE MANAGEMENT
CT-P1-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>PROGRAM DESCRIPTION:</u>	<u>FEATURES¹:</u>	Spec.																								
<u>A/OT:</u> An instructional program that prepares individuals to provide administrative support services in a variety of business settings. Services could be provided to various levels of management and may or may not be supervised. Instruction emphasis will include office technology, financial functions, records management, and support tasks.	<u>Fixed Items:</u>	<u>Ref.#</u>																								
<u>LOM:</u> Prepares students to work in the legal environment in occupations such as legal secretary, legal assistant, paralegal, real-time reporter, court reporter, legal office manager, or stenocaptionist.	<table border="0"> <tr><td>F1</td><td>16' of chalk/marker board</td><td>101100</td></tr> <tr><td>F2</td><td>8' of tack board</td><td>101100</td></tr> <tr><td>F3</td><td>20' of base cabinets</td><td>123550</td></tr> <tr><td>F4</td><td>20' of wall cabinets</td><td>123550</td></tr> <tr><td>F5</td><td>Pencil sharpener support</td><td>062000</td></tr> <tr><td>F6</td><td>Windows with integral blinds</td><td>085113</td></tr> <tr><td>F7</td><td>Projection screen, 6'x8'</td><td>115213</td></tr> </table>	F1	16' of chalk/marker board	101100	F2	8' of tack board	101100	F3	20' of base cabinets	123550	F4	20' of wall cabinets	123550	F5	Pencil sharpener support	062000	F6	Windows with integral blinds	085113	F7	Projection screen, 6'x8'	115213				
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F6	Windows with integral blinds	085113																								
F7	Projection screen, 6'x8'	115213																								
Program Type: 1	<u>Fire Suppression:</u>																									
Size Requirements: 1,200 SF Lab	Fire suppression system 211000																									
Lab Requirements:	<u>Plumbing:</u>																									
<u>FINISHES:</u>	N/A																									
<table border="0"> <tr><td>Flooring:</td><td></td><td>Spec.</td></tr> <tr><td>Carpet</td><td></td><td><u>Ref #</u></td></tr> <tr><td>Optional: vinyl composition tile,</td><td>096816</td><td></td></tr> <tr><td>VET, sheet vinyl, or linoleum</td><td>096500</td><td></td></tr> <tr><td></td><td>096516</td><td></td></tr> </table>	Flooring:		Spec.	Carpet		<u>Ref #</u>	Optional: vinyl composition tile,	096816		VET, sheet vinyl, or linoleum	096500			096516		<u>HVAC:</u>										
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Ceiling:																										
Suspended acoustical	095113																									
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<u>LOOSE FURNISHINGS:</u> L1 (24) Computer workstation furniture & chairs L2 (1) Teacher station & chair Wastebasket Pencil sharpener	<u>Communications:</u>																									
	<table border="0"> <tr><td>T1</td><td>1 video port</td><td>271533/271543</td></tr> <tr><td>T2</td><td>1 voice port and phone</td><td>271513/273113</td></tr> <tr><td>T3</td><td>1 data port near teacher workstation</td><td>271513</td></tr> <tr><td>T4</td><td>26 data ports</td><td>271513</td></tr> <tr><td></td><td>Clock</td><td>275313</td></tr> <tr><td></td><td>Central sound system</td><td>275123</td></tr> <tr><td></td><td>Sound reinforcement system</td><td>275127</td></tr> <tr><td>T5</td><td>Overhead projector</td><td>274119</td></tr> </table>	T1	1 video port	271533/271543	T2	1 voice port and phone	271513/273113	T3	1 data port near teacher workstation	271513	T4	26 data ports	271513		Clock	275313		Central sound system	275123		Sound reinforcement system	275127	T5	Overhead projector	274119	
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	<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.

<u>PROGRAM DESCRIPTION:</u>	Classroom and practical experiences that include instruction relating to aircraft maintenance, operation, and ground support. Instructor and program must be certified by the Federal Aviation Administration (FAA).	<u>FEATURES¹:</u>	Spec.																						
Program Type:	1	<u>Fixed Items:</u>	<u>Ref.#</u>																						
Size Requirements:	1,500 SF Lab	<table border="0"> <tr><td>16' of chalk/marker board</td><td>101100</td></tr> <tr><td>8' of tack board</td><td>101100</td></tr> <tr><td>Demonstration table/teacher desk</td><td>123550</td></tr> <tr><td>60' of perimeter sink base cabinets with 5 sinks</td><td>123550</td></tr> <tr><td>30' of wall cabinets</td><td>123550</td></tr> <tr><td>Fume hood</td><td>115313</td></tr> <tr><td>(5) Paper towel dispensers</td><td>102813</td></tr> <tr><td>(1) Safety shower/eyewash</td><td>224000</td></tr> <tr><td>Pencil sharpener support</td><td>062000</td></tr> <tr><td>Windows with integral blinds</td><td>085113</td></tr> <tr><td>Projection screen, 6'x8'</td><td>115213</td></tr> </table>	16' of chalk/marker board	101100	8' of tack board	101100	Demonstration table/teacher desk	123550	60' of perimeter sink base cabinets with 5 sinks	123550	30' of wall cabinets	123550	Fume hood	115313	(5) Paper towel dispensers	102813	(1) Safety shower/eyewash	224000	Pencil sharpener support	062000	Windows with integral blinds	085113	Projection screen, 6'x8'	115213	
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Lab Requirements:		<u>Fire Suppression:</u>																							
<u>FINISHES:</u>		Fire suppression system	211000																						
Flooring:		<u>Plumbing:</u>																							
Vinyl composition tile, VET, sheet vinyl, or linoleum	Spec. Ref # 096500 096516	Plumbing connections 221116/221119/224000																							
Base:		Safety shower/eyewash connections	224000																						
Resilient	096500	Master shut-off for gas	226313																						
Ceiling:		Gas connections	226313																						
Suspended acoustical	095113	Compressed air connections	221500																						
Walls:		<u>HVAC:</u>																							
Painted concrete masonry units	042000/ 099100	Supply/return air system	Div. 23																						
		Independent temperature control	230923																						
		Manual exhaust	Div. 23																						
		Fume hood exhaust	Div. 23																						
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>																							
(12) 2-person work tables w/epoxy tops and gas & electric connections		Fluorescent lighting	265100																						
(24) Student stools/chairs		Illumination level: See Table 8600-4																							
(1) Teacher chair or stool		Multilevel switching	262726																						
(4) Computer workstations		6 duplex receptacles	262726																						
Wastebasket		Double duplex receptacle adjacent to each data and video port	262726																						
Pencil sharpener		Emergency lighting	265100																						
		Means of egress lighting per code	265100																						
<u>Miscellaneous:</u>		<u>Communications:</u>																							
N/A		1 video port	271533/271543																						
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		Overhead projector	274119																						
<u>NOTES:</u>		<u>Electronic Safety and Security:</u>																							
1. Finishes/Features: Refer to Chapter 9 for specification references.		Life safety devices per code	283111																						

**BUSINESS MANAGEMENT
CT-P1-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>PROGRAM DESCRIPTION:</u>	<u>FEATURES¹:</u>	Spec.																					
An instructional program that generally prepares individuals to plan, organize, direct, and control the functions and processes of a firm or organization. Includes instruction in human resources management, strategic planning, managing technology, staffing functions, general office functions, financial functions, telecommunications, and supervisory functions.	<u>Fixed Items:</u>	<u>Ref.#</u>																					
Program Type: 1	<table border="0"> <tr><td>F1</td><td>16' of chalk/marker board</td><td>101100</td></tr> <tr><td>F2</td><td>8' of tack board</td><td>101100</td></tr> <tr><td>F3</td><td>20' of base cabinets</td><td>123550</td></tr> <tr><td>F4</td><td>20' of wall cabinets</td><td>123550</td></tr> <tr><td>F5</td><td>Pencil sharpener support</td><td>062000</td></tr> <tr><td>F6</td><td>Windows with integral blinds</td><td>085113</td></tr> <tr><td>F7</td><td>Projection screen, 6'x8'</td><td>115213</td></tr> </table>	F1	16' of chalk/marker board	101100	F2	8' of tack board	101100	F3	20' of base cabinets	123550	F4	20' of wall cabinets	123550	F5	Pencil sharpener support	062000	F6	Windows with integral blinds	085113	F7	Projection screen, 6'x8'	115213	
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F5	Pencil sharpener support	062000																					
F6	Windows with integral blinds	085113																					
F7	Projection screen, 6'x8'	115213																					
Size Requirements: 1,200 SF Lab	<u>Fire Suppression:</u> Fire suppression system 211000																						
Lab Requirements:	<u>Plumbing:</u> N/A																						
<u>FINISHES:</u>	<u>HVAC:</u> Supply/return air system Div. 23 Independent temperature control 230923																						
<table border="0"> <tr><td colspan="2"><u>Flooring:</u></td></tr> <tr><td>Carpet</td><td>096816</td></tr> <tr><td>Optional: vinyl composition tile,</td><td>096500</td></tr> <tr><td>VET, sheet vinyl, or linoleum</td><td>096516</td></tr> </table>	<u>Flooring:</u>		Carpet	096816	Optional: vinyl composition tile,	096500	VET, sheet vinyl, or linoleum	096516	<u>Electrical:</u> Fluorescent lighting, parabolic lenses:265100 Illumination level: See Table 8600-4 Multilevel switching 262726 6 duplex receptacles 262726 Double duplex receptacle adjacent to each data and video port 262726														
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<u>Base:</u>																							
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Suspended acoustical	095113																						
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<u>Walls:</u>																							
Painted concrete masonry units	042000/ 099100																						
<u>LOOSE FURNISHINGS:</u> L1 (24) Computer workstation furniture & chairs L2 (1) Teacher station & chair Wastebasket Pencil sharpener																							

NOTES:

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

DIVERSIFIED COOPERATIVE HEALTH OCCUPATIONS

CHAPTER 6: CAREER-TECHNICAL SCHOOL

CT-P1-1

<u>PROGRAM DESCRIPTION:</u> A cooperative program in multi-occupational areas of health occupations.		<u>FEATURES¹:</u>	Spec. Ref.#
Program Type:	1	<u>Fixed Items:</u>	
Size Requirements:	1,500 SF Lab	16' of chalk/marker board	101100
Lab Requirements:		8' of tack board	101100
		20' of sink base cabinets w/1 sink	123550
		20' of wall cabinets	123550
		Pencil sharpener support	062000
		Windows with integral blinds	085113
		Projection screen, 6'x8'	115213
		Paper towel dispenser	102813
		<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>FINISHES:</u>	Spec. Ref #	<u>Plumbing:</u>	
Flooring:		Plumbing connections	221116/221119/224000
Vinyl composition tile, VET, sheet vinyl, or linoleum	096500 096516	<u>HVAC:</u>	
Optional: carpet	096816	Supply/return air system	Div. 23
Base:		Independent temperature control	230923
Resilient	096500	<u>Electrical:</u>	
Ceiling:		Fluorescent lighting	265100
Suspended acoustical	095113	Illumination level: See Table 8600-4	
Walls:		Multilevel switching	262726
Painted concrete masonry units	042000/ 099100	6 duplex receptacles	262726
<u>LOOSE FURNISHINGS:</u>		Double duplex receptacle adjacent to each data and video port	262726
(12) Two-person work tables		<u>Communications:</u>	
(24) Computer workstation furniture & chairs		1 video port	271533/271543
(1) Teacher station & chair		1 voice port and phone	271513/273113
Wastebasket		1 data port near teacher workstation	271513
Pencil sharpener		8 data ports	271513
		Clock	275313
		Central sound system	275123
		Sound reinforcement system	275127
		Overhead projector	274119
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

**DRAFTING OCCUPATIONS - COMPUTER INTEGRATED MANUFACTURING
CIVIL ENGINEERING & ARCHITECTURE - FUEL CELL TECHNOLOGIES
CT-P1-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

PROGRAM DESCRIPTION:

DO: Specialized learning experiences that include theory, laboratory and shop work, as each relates to the gathering and translation of data or specifications; and the planning, preparation and interpretation of mechanical, and/or architectural drawings and sketches.

CIM: Utilizes business and industry technical standards and a math, science, and technology framework to introduce concepts of pre-engineering related to robotic manufacturing in the Project Lead The Way (PLTW) model and leads to a post secondary education.

CE&A: Utilizes business and industry technical standards and a math, science, and technology framework to introduce concepts of pre-engineering related to civil engineering & architecture in the Project Lead The Way (PLTW) model and leads to a postsecondary education.

FCT: Utilizes business and industry technical standards and a math, science, and technology framework to introduce concepts of pre-engineering related to fuel cell types, materials, function, and design in the Project Lead The Way (PLTW) model and leads to a postsecondary education.

Program Type: 1
Size Requirements: 1,500 SF Lab
Lab Requirements:

FINISHES:

	Spec. Ref #
Flooring:	
Carpet	096816
Optional: vinyl composition tile, VET, sheet vinyl, or linoleum	096500 096516
Base:	
Resilient	096500
Ceiling:	
Suspended acoustical	095113
Walls:	
Painted concrete masonry units	042000/ 099100

LOOSE FURNISHINGS:

L1 (24) Computer workstation/drawing board furniture & chairs
L2 (1) Teacher station & chair Wastebasket Pencil sharpener

FEATURES¹:

<u>Fixed Items:</u>		Spec. Ref.#
F1	16' of chalk/marker board	101100
F2	8' of tack board	101100
F3	20' of base cabinets	123550
F4	20' of wall cabinets	123550
F5	Pencil sharpener support	062000
F6	Windows with integral blinds	085113
F7	Projection screen, 6'x8'	115213

Fire Suppression:

Fire suppression system	211000
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Plumbing:

N/A

HVAC:

Supply/return air system	Div. 23
Independent temperature control	230923

Electrical:

Fluorescent lighting, parabolic lenses:	265100
Illumination level: See Table 8600-4	
Multilevel switching	262726
6 duplex receptacles	262726
Double duplex receptacle adjacent to each data and video port	262726

Communications:

T1	1 video port	271533/271543
T2	1 voice port and phone	271513/273113
T3	1 data port near teacher workstation	271513
T4	26 data ports	271513
	Clock	275313
	Central sound system	275123
	Sound reinforcement system	275127
T5	Overhead projector	274119

Electronic Safety and Security:

Life safety devices per code	283111
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Miscellaneous:

N/A

NOTES:

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

<p><u>PROGRAM DESCRIPTION:</u> <i>Electronics:</i> Classroom, laboratory, and practical learning experiences that includes both theory and practice. Students learn construction, maintenance, and repair of digital, analog, and microprocessor circuits in applications such as communications equipment, consumer equipment, and industrial equipment. <i>Automation & Robotics: Utilizing business and Industry, math, English, science and technology standards, introduces concepts if Automation and Robotics technologies: Computer Numerical Control (CNC), Data Acquisition and Analysis, Electrical/Electronic controls, Fluid Power, Robotics and Programmable Logic Controllers (PLC).</i></p> <p>Program Type: 1</p> <p>Size Requirements: 1,800 SF Lab</p> <p>Lab Requirements:</p> <p><u>FINISHES:</u></p> <p>Flooring:</p> <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 20px;">Carpet</td> <td style="text-align: right;">Spec. Ref #</td> <td style="text-align: right;">096816</td> </tr> <tr> <td style="padding-left: 20px;">Optional: vinyl composition tile, VET, sheet vinyl, or linoleum</td> <td></td> <td style="text-align: right;">096500 096516</td> </tr> </table> <p>Base:</p> <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 20px;">Resilient</td> <td style="text-align: right;">096500</td> </tr> </table> <p>Ceiling:</p> <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 20px;">Suspended acoustical</td> <td style="text-align: right;">095113</td> </tr> </table> <p>Walls:</p> <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 20px;">Painted concrete masonry units</td> <td style="text-align: right;">042000/ 099100</td> </tr> </table> <p><u>LOOSE FURNISHINGS:</u> (12) Two-person work tables w/storage below (24) Computer workstation furniture & chairs (1) Teacher station & chair Wastebasket Pencil sharpener</p>	Carpet	Spec. Ref #	096816	Optional: vinyl composition tile, VET, sheet vinyl, or linoleum		096500 096516	Resilient	096500	Suspended acoustical	095113	Painted concrete masonry units	042000/ 099100	<p style="text-align: right;">Spec. Ref.#</p> <p><u>FEATURES¹:</u> <u>Fixed Items:</u></p> <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 20px;">16' of chalk/marker board</td> <td style="text-align: right;">101100</td> </tr> <tr> <td style="padding-left: 20px;">8' of tack board</td> <td style="text-align: right;">101100</td> </tr> <tr> <td style="padding-left: 20px;">30' of base cabinets</td> <td style="text-align: right;">123550</td> </tr> <tr> <td style="padding-left: 20px;">30' of wall cabinets</td> <td style="text-align: right;">123550</td> </tr> <tr> <td style="padding-left: 20px;">12' of tall storage cabinets</td> <td style="text-align: right;">123550</td> </tr> <tr> <td style="padding-left: 20px;">Pencil sharpener support</td> <td style="text-align: right;">062000</td> </tr> <tr> <td style="padding-left: 20px;">Windows with integral blinds</td> <td style="text-align: right;">085113</td> </tr> <tr> <td style="padding-left: 20px;">Projection screen, 6'x8'</td> <td style="text-align: right;">115213</td> </tr> </table> <p><u>Fire Suppression:</u></p> <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 20px;">Fire suppression system</td> <td style="text-align: right;">211000</td> </tr> </table> <p><u>Plumbing:</u></p> <p style="padding-left: 20px;">N/A</p> <p><u>HVAC:</u></p> <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 20px;">Supply/return air system</td> <td style="text-align: right;">Div. 23</td> </tr> <tr> <td style="padding-left: 20px;">Independent temperature control</td> <td style="text-align: right;">230923</td> </tr> </table> <p><u>Electrical:</u></p> <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 20px;">Fluorescent lighting, parabolic lenses:</td> <td style="text-align: right;">265100</td> </tr> <tr> <td style="padding-left: 40px;">Illumination level: See Table 8600-4</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Multilevel switching</td> <td style="text-align: right;">262726</td> </tr> <tr> <td style="padding-left: 20px;">6 duplex receptacles</td> <td style="text-align: right;">262726</td> </tr> <tr> <td style="padding-left: 20px;">Double duplex receptacle adjacent to each data and video port</td> <td style="text-align: right;">262726</td> </tr> </table> <p><u>Communications:</u></p> <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 20px;">1 video port</td> <td style="text-align: right;">271533/271543</td> </tr> <tr> <td style="padding-left: 20px;">1 voice port and phone</td> <td style="text-align: right;">271513/273113</td> </tr> <tr> <td style="padding-left: 20px;">1 data port near teacher workstation</td> <td style="text-align: right;">271513</td> </tr> <tr> <td style="padding-left: 20px;">26 data ports</td> <td style="text-align: right;">271513</td> </tr> <tr> <td style="padding-left: 20px;">Clock</td> <td style="text-align: right;">275313</td> </tr> <tr> <td style="padding-left: 20px;">Central sound system</td> <td style="text-align: right;">275123</td> </tr> <tr> <td style="padding-left: 20px;">Sound reinforcement system</td> <td style="text-align: right;">275127</td> </tr> <tr> <td style="padding-left: 20px;">Overhead projector</td> <td style="text-align: right;">274119</td> </tr> </table> <p><u>Electronic Safety and Security:</u></p> <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 20px;">Life safety devices per code</td> <td style="text-align: right;">283111</td> </tr> </table> <p><u>Miscellaneous:</u></p> <p style="padding-left: 20px;">N/A</p>	16' of chalk/marker board	101100	8' of tack board	101100	30' of base cabinets	123550	30' of wall cabinets	123550	12' of tall storage cabinets	123550	Pencil sharpener support	062000	Windows with integral blinds	085113	Projection screen, 6'x8'	115213	Fire suppression system	211000	Supply/return air system	Div. 23	Independent temperature control	230923	Fluorescent lighting, parabolic lenses:	265100	Illumination level: See Table 8600-4		Multilevel switching	262726	6 duplex receptacles	262726	Double duplex receptacle adjacent to each data and video port	262726	1 video port	271533/271543	1 voice port and phone	271513/273113	1 data port near teacher workstation	271513	26 data ports	271513	Clock	275313	Central sound system	275123	Sound reinforcement system	275127	Overhead projector	274119	Life safety devices per code	283111
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1. Finishes/Features: Refer to Chapter 9 for specification references.

**ENTERTAINMENT MARKETING
CT-P1-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>PROGRAM DESCRIPTION:</u>	<u>FEATURES¹:</u>	Spec.
An instructional program with organized subject matter and learning experiences designed to prepare individuals to perform marketing tasks in the areas of radio broadcasting, television broadcasting, performing arts, and related media.	<u>Fixed Items:</u>	<u>Ref.#</u>
Program Type: 1	F1 16' of chalk/marker board	101100
Size Requirements: 1,000 SF Lab	F2 8' of tack board	101100
Lab Requirements:	F3 20' of base cabinets	123550
<u>FINISHES:</u>	F4 20' of wall cabinets	123550
<u>Flooring:</u>	F5 Pencil sharpener support	062000
Carpet	F6 Windows with integral blinds	085113
Optional: vinyl composition tile,	F7 Projection screen, 6'x8'	115213
VET, sheet vinyl, or linoleum	<u>Fire Suppression:</u>	
Base: Resilient	Fire suppression system	211000
Ceiling: Suspended acoustical	<u>Plumbing:</u>	N/A
Walls: Painted concrete masonry units	<u>HVAC:</u>	Supply/return air system Div. 23 Independent temperature control 230923
042000/ 099100	<u>Electrical:</u>	Fluorescent lighting, parabolic lenses:265100 Illumination level: See Table 8600-4 Multilevel switching 262726 6 duplex receptacles 262726 Double duplex receptacle adjacent to each data and video port 262726
<u>LOOSE FURNISHINGS:</u>	<u>Communications:</u>	T1 1 video port 271533/271543 T2 1 voice port and phone 271513/273113 T3 1 data port near teacher workstation 271513 T4 26 data ports 271513 Clock 275313 Central sound system 275123 Sound reinforcement system 275127 T5 Overhead projector 274119
L1 (24) Computer workstation furniture & chairs L2 (1) Teacher station & chair Wastebasket Pencil sharpener	<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.

<p><u>PROGRAM DESCRIPTION:</u> Planned learning experiences that include a combination of courses and practical experiences concerned with systematizing information about transactions and activities into accounts and quantitative records, and paying and receiving money.</p> <p>Program Type: 1</p> <p>Size Requirements: 1,200 SF Lab</p> <p>Lab Requirements:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 80%;"></td> <td style="text-align: right; vertical-align: top;">Spec. <u>Ref #</u></td> </tr> </table> <p><u>FINISHES:</u></p> <p>Flooring:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 80%;">Carpet</td> <td style="text-align: right;">096816</td> </tr> <tr> <td>Optional: vinyl composition tile, VET, sheet vinyl, or linoleum</td> <td style="text-align: right;">096500 096516</td> </tr> </table> <p>Base:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 80%;">Resilient</td> <td style="text-align: right;">096500</td> </tr> </table> <p>Ceiling:</p> <table style="width: 100%; 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NOTES:

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

**HOSPITALITY AND TOURISM
CT-P1-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>PROGRAM DESCRIPTION:</u>	<u>FEATURES¹:</u>	Spec.																					
Organized subject matter and learning experiences that prepare individuals to perform marketing functions in any business enterprise primarily engaged in travel services, lodging, leisure activities, food services, attraction and entertainment events, convention services, and transportation.	<u>Fixed Items:</u>	<u>Ref.#</u>																					
Program Type: 1	<table border="0"> <tr><td>F1</td><td>16' of chalk/marker board</td><td>101100</td></tr> <tr><td>F2</td><td>8' of tack board</td><td>101100</td></tr> <tr><td>F3</td><td>20' of base cabinets</td><td>123550</td></tr> <tr><td>F4</td><td>20' of wall cabinets</td><td>123550</td></tr> <tr><td>F5</td><td>Pencil sharpener support</td><td>062000</td></tr> <tr><td>F6</td><td>Windows with integral blinds</td><td>085113</td></tr> <tr><td>F7</td><td>Projection screen, 6'x8'</td><td>115213</td></tr> </table>	F1	16' of chalk/marker board	101100	F2	8' of tack board	101100	F3	20' of base cabinets	123550	F4	20' of wall cabinets	123550	F5	Pencil sharpener support	062000	F6	Windows with integral blinds	085113	F7	Projection screen, 6'x8'	115213	
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F6	Windows with integral blinds	085113																					
F7	Projection screen, 6'x8'	115213																					
Size Requirements: 1,200 SF Lab	<u>Fire Suppression:</u> Fire suppression system 211000																						
Lab Requirements:	<u>Plumbing:</u> N/A																						
<u>FINISHES:</u> Flooring: Carpet 096816 Optional: vinyl composition tile, VET, sheet vinyl, or linoleum 096500 096516	<u>HVAC:</u> Supply/return air system Div. 23 Independent temperature control 230923	Spec. <u>Ref #</u>																					
Base: Resilient 096500	<u>Electrical:</u> Fluorescent lighting, parabolic lenses:265100 Illumination level: See Table 8600-4 Multilevel switching 262726 6 duplex receptacles 262726 Double duplex receptacle adjacent to each data and video port 262726																						
Ceiling: Suspended acoustical 095113	<u>Communications:</u> T1 1 video port 271533/271543 T2 1 voice port and phone 271513/273113 T3 1 data port near teacher workstation 271513 T4 26 data ports 271513 Clock 275313 Central sound system 275123 Sound reinforcement system 275127 T5 Overhead projector 274119																						
Walls: Painted concrete masonry units 042000/ 099100	<u>Electronic Safety and Security:</u> Life safety devices per code 283111																						
<u>LOOSE FURNISHINGS:</u> L1 (24) Computer workstation furniture & chairs L2 (1) Teacher station & chair Wastebasket Pencil sharpener	<u>Miscellaneous:</u> N/A																						

NOTES:

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

**MEDICAL OFFICE MANAGEMENT
CT-P1-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>PROGRAM DESCRIPTION:</u>	Prepares students for employment in office in a variety of medical and healthcare management settings. Sample occupations include medical billing specialist, medical office manager, benefits coordinator, admissions specialist, medical records technical, claims processor, and medical coding specialist.	<u>FEATURES¹:</u>	Spec.
Program Type:	1	<u>Fixed Items:</u>	<u>Ref.#</u>
Size Requirements:	1,200 SF Lab	16' of chalk/marker board 101100 8' of tack board 101100 20' of sink base cabinets w/1 sink 123550 20' of wall cabinets 123550 Pencil sharpener support 062000 Windows with integral blinds 085113 Projection screen, 6'x8' 115213 Paper towel dispenser 102813	
Lab Requirements:		<u>Fire Suppression:</u>	
		Fire suppression system 211000	
		<u>Plumbing:</u>	
		Plumbing connections 221116/221119/224000	
<u>FINISHES:</u>		<u>HVAC:</u>	
Flooring:		Supply/return air system Div. 23 Independent temperature control 230923	
Vinyl composition tile, VET, 096500	Spec. <u>Ref #</u>		
sheet vinyl, or linoleum 096516			
Optional: carpet 096816			
Base:		<u>Electrical:</u>	
Resilient 096500		Fluorescent lighting: 265100 Illumination level: See Table 8600-4 Multilevel switching 262726 6 duplex receptacles 262726 Double duplex receptacle adjacent to each data and video port 262726	
Ceiling:		<u>Communications:</u>	
Suspended acoustical 095113		1 video port 271533/271543 1 voice port and phone 271513/273113 1 data port near teacher workstation 271513 8 data ports 271513 Clock 275313 Central sound system 275123 Sound reinforcement system 275127 Overhead projector 274119	
Walls:		<u>Electronic Safety and Security:</u>	
Painted concrete masonry units 042000/ 099100		Life safety devices per code 283111	
<u>LOOSE FURNISHINGS:</u>		<u>Miscellaneous:</u>	
(12) Two-person work stables		N/A	
(24) Student chairs/stools			
(1) Teacher station & chair			
Wastebasket			
Pencil sharpener			

NOTES:

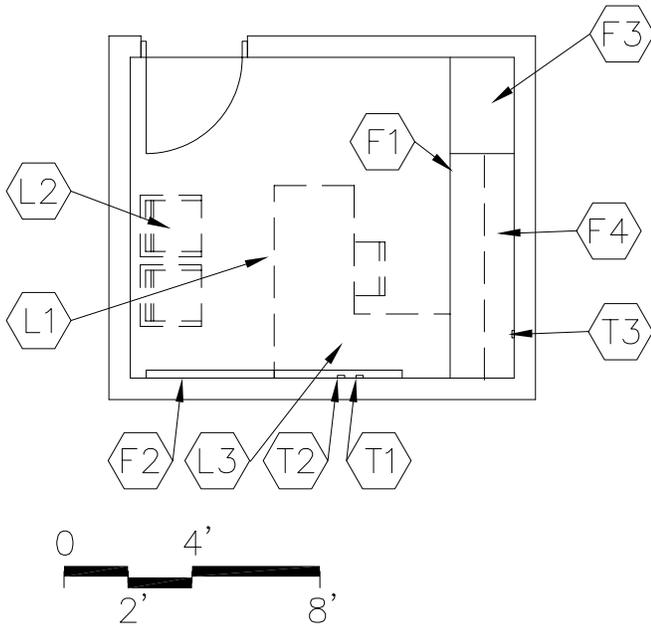
1. Finishes/Features: Refer to Chapter 9 for specification references.

<u>PROGRAM DESCRIPTION:</u>	<u>FEATURES¹:</u>	Spec.																					
Specialized classroom and practical experiences concerned with the assembly, installation, operation, maintenance, and repair of telephone equipment, which includes pole climbing, cable construction, cable splicing, cable pulling, job planning, equipment wiring, trouble-shooting procedures of PBX systems, and field repair of telephones.	<u>Fixed Items:</u>	<u>Ref.#</u>																					
Program Type: 1	<table border="0"> <tr><td>F1</td><td>16' of chalk/marker board</td><td>101100</td></tr> <tr><td>F2</td><td>8' of tack board</td><td>101100</td></tr> <tr><td>F3</td><td>20' of base cabinets</td><td>123550</td></tr> <tr><td>F4</td><td>20' of wall cabinets</td><td>123550</td></tr> <tr><td>F5</td><td>Pencil sharpener support</td><td>062000</td></tr> <tr><td>F6</td><td>Windows with integral blinds</td><td>085113</td></tr> <tr><td>F7</td><td>Projection screen, 6'x8'</td><td>115213</td></tr> </table>	F1	16' of chalk/marker board	101100	F2	8' of tack board	101100	F3	20' of base cabinets	123550	F4	20' of wall cabinets	123550	F5	Pencil sharpener support	062000	F6	Windows with integral blinds	085113	F7	Projection screen, 6'x8'	115213	
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Size Requirements: 1,200 SF Lab	<u>Fire Suppression:</u> Fire suppression system 211000																						
Lab Requirements:	<u>Plumbing:</u> N/A																						
<u>FINISHES:</u>	<u>HVAC:</u> Supply/return air system Div. 23 Independent temperature control 230923																						
<table border="0"> <tr><td>Flooring:</td><td></td><td></td></tr> <tr><td> Carpet</td><td>096816</td><td></td></tr> <tr><td> Optional: vinyl composition tile,</td><td>096500</td><td></td></tr> <tr><td> VET, sheet vinyl, or linoleum</td><td>096516</td><td></td></tr> </table>	Flooring:			Carpet	096816		Optional: vinyl composition tile,	096500		VET, sheet vinyl, or linoleum	096516		<u>Electrical:</u> Fluorescent lighting, parabolic lenses:265100 Illumination level: See Table 8600-4 Multilevel switching 262726 6 duplex receptacles 262726 Double duplex receptacle adjacent to each data and video port 262726										
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Walls:																							
Painted concrete masonry units	042000/ 099100																						
<u>LOOSE FURNISHINGS:</u> L1 (24) Computer workstation furniture & chairs L2 (1) Teacher station & chair Wastebasket Pencil sharpener																							

NOTES:

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

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PROGRAM ACTIVITIES:

- Private space for program instructor
- One-on-one conferences with academic instructors, students, etc.

SPATIAL RELATIONSHIPS:

- Near related lab
- Direct access to school circulation areas

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY: 1 - 3 persons
SIZE: 120 SF

NOTES:

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

**OFFICE
CT-P1-2**

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

NOTES:

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

PROGRAM ACTIVITIES:

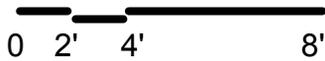
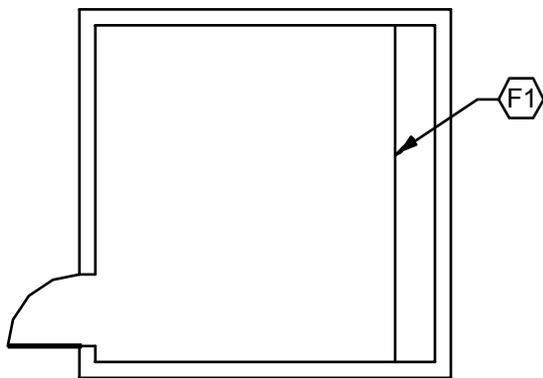
- Space for storage of lab equipment

SPATIAL RELATIONSHIPS:

- Near related lab

ENVIRONMENTAL CONSIDERATIONS:

N/A



CAPACITY:
SIZE:

N/A
200 SF

NOTES:

**STORAGE AREA
CT-P1-3**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items¹:</u>	
Sealed concrete	033000	F1 8'-20' of open shelving	
		Depth may vary (fixed or loose)	123550
Base:		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Exposed structure	---	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>	
N/A		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		Duplex receptacles	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

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Program Type 2

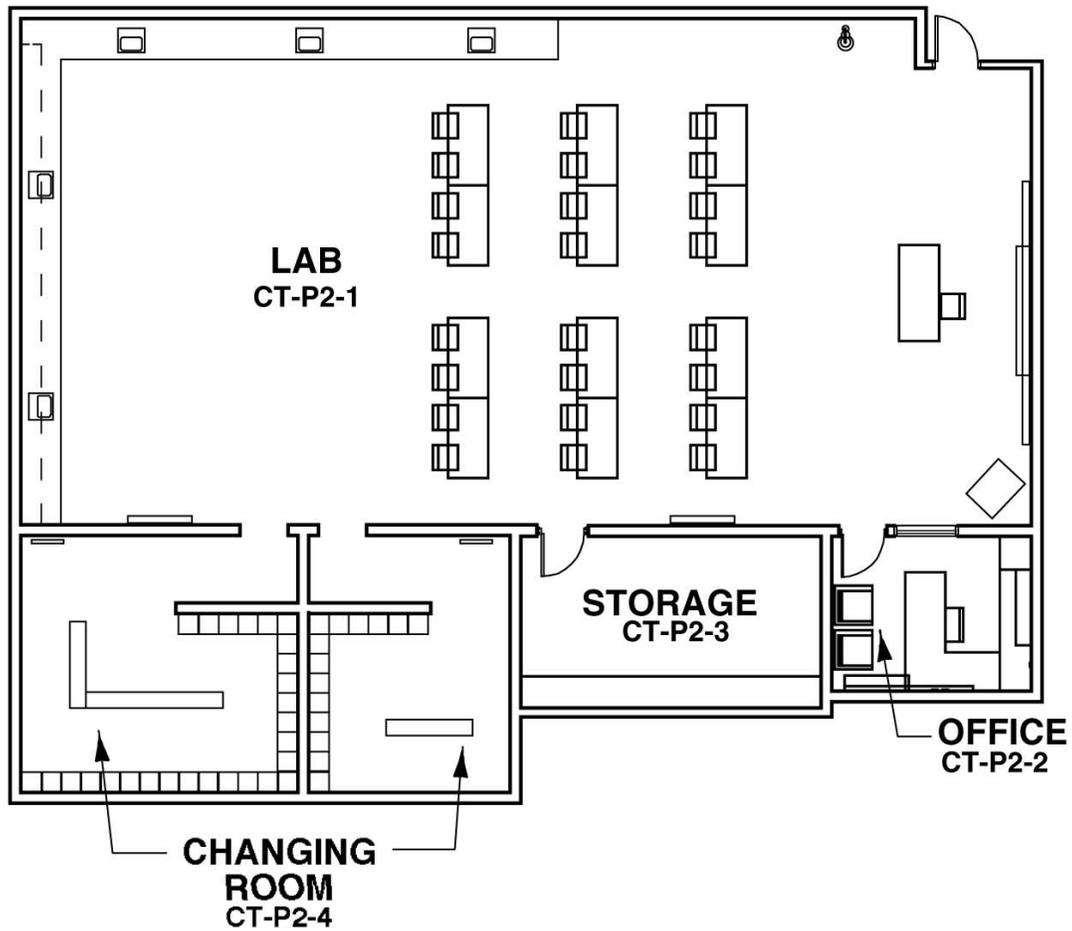
Description: Small to medium sized lab space with typical support space. This program is to utilize standard construction and be one-story (16' +/- tall). Lab and support space to have finished floor, painted walls, and suspended acoustical ceiling.

**NOTES:**

This is an example of how the Program Type 2 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 Program Type 2 space plates:

- CT-P2-1 Lab
- CT-P2-2 Office
- CT-P2-3 Storage
- CT-P2-4 Changing Room

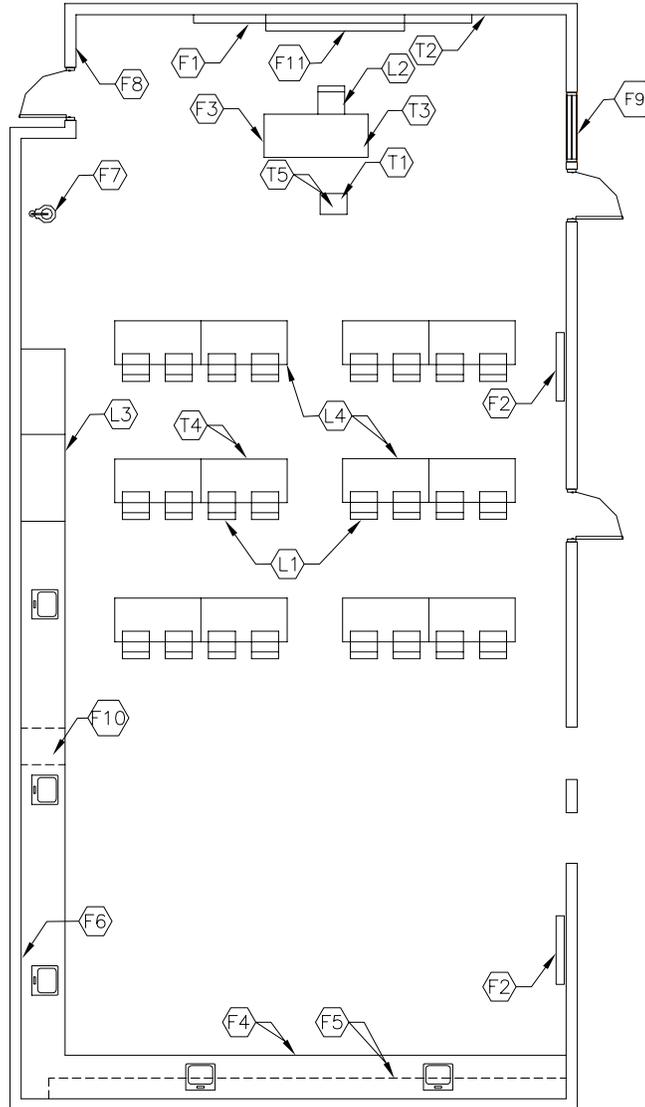


Program Type 2

This is an example to show the possible relationships of spaces for this program type.

NOTES:

1. See lab descriptions within this section for specific lab requirements.
2. See individual space plates at the end of this section for specific requirements for the office, storage room, and changing room.



CAPACITY:	24 Students
SIZE:	1,500 SF
	(see lab summaries for exact sizes)
ANCILLARY SPACES:	CT-P2-2 thru CT-P2-4

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.
2. Graphic plate is an example only. Other labs within this program are not drawn – refer to lab summaries within this program type for information on a particular lab.

PROGRAM ACTIVITIES:

- Large and small group instruction
- Group and individual work
- Demonstrations

SPATIAL RELATIONSHIPS:

- Near other related labs
- Adjacent to typical support spaces
- Proximity to large group restrooms
- Located away from noisy or public activities
- Proximity to core academic area and common use areas
- Flexibility of space

ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting with 80% visual comfort probability level.
- Optional: Natural light opening equal to 5% minimum of floor area, with an operable vent
- Environmental sound control -
 walls minimum STC 50
 ceiling minimum CAC 35, NRC **0.70**
- Flexibility of space

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Loose Furnishings: Refer to Lab Profiles within this section.
3. Loose Furnishings, fixed equipment, utility locations, and general footprint of room shown represent one of many possible arrangements.

**PHARMACY ASSISTING
BIOTECHNOLOGY
CT-P2-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p><u>PROGRAM DESCRIPTION:</u> <u>Pharmacy Technician:</u> A combination of subject matter and experiences designed to prepare students to work in a pharmacy under the supervision of a pharmacist. Instruction includes pharmacy law and ethics, pharmaceutical calculations, pharmacy operations, compounding, and pharmacology. <u>Biotechnology:</u> A tech prep program that combines classroom and laboratory experiences in the bioprocesses of organisms, cells, or their components to create products or solve problems. Program concentrates on biomedical, environmental, pharmaceutical, bioinformatics, and bioethics.</p> <p>Program Type: 2</p> <p>Size Requirements: 1,500 SF Lab</p> <p>Lab Requirements:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 80%;"></th> <th style="text-align: right; width: 20%;">Spec. 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NOTES:

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

**MEDICAL LABORATORY TECHNOLOGY ▪ CHEMICAL LABORATORY ASSISTING
INDUSTRIAL LABORATORY ASSISTING ▪ CRIMINAL SCIENCE TECHNOLOGY
CT-P2-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

PROGRAM DESCRIPTION:		FEATURES¹:	
<u>MLT, CLA, ILA:</u> A combination of subject matter and experiences designed to prepare to work under the supervision of medical technologist, clinical pathologist, or physician to perform routine clinical laboratory procedures and specimen collection techniques including phlebotomy.		<u>Fixed Items:</u>	
<u>CST:</u> Utilizing business and industry standards as framework for application of clinical and criminal laboratory science, evidentiary testing and analysis, study of society's formal control system, investigative techniques, criminal law, criminal process, administration of Justice System computer applications, record-keeping, and reconstruction techniques.			Spec. Ref.#
Program Type:	2	F1	16' of chalk/marker board 101100
Size Requirements:	1,500 SF Lab	F2	8' of tack board 101100
Lab Requirements:		F3	Demonstration table/teacher desk 123550
		F4	60' of perimeter sink base cabinets with 5 sinks 123550
		F5	30' of wall cabinets 123550
		F6	(5) Paper towel dispensers 102813
		F7	Safety shower/eyewash 224500
		F8	Pencil sharpener support 062000
		F9	Windows with integral blinds 085113
		F10	Undercounter refrigerator 113100
		F11	Projection screen, 6'x8' 115213
		<u>Fire Suppression:</u>	
			Fire suppression system 211000
		<u>Plumbing:</u>	
			Plumbing connections 221116/221119/224000
			Safety shower/eyewash connections 224000
			Master shut-off for gas 226313
			Gas connections 226313
		<u>HVAC:</u>	
			Supply/return air system Div. 23
			Independent temperature control 230923
			Manual exhaust Div. 23
		<u>Electrical:</u>	
			Fluorescent lighting, parabolic lenses:265100
			Illumination level: See Table 8600-4
			Multilevel switching 262726
			6 duplex receptacles (minimum) 262726
			Double duplex receptacle adjacent to each data and video port 262726
			Means of egress lighting per code 265100
		<u>Communications:</u>	
		T1	1 video port 271533/271543
		T2	1 voice port and phone 271513/273113
		T3	1 data port at demonstration table 271513
		T4	11 data ports for student use 271513
			Clock 275313
			Central sound system 275123
			Sound reinforcement system 275127
		T5	Overhead projector 274119
		<u>Electronic Safety and Security:</u>	
			Life safety devices per code 283111
		<u>Miscellaneous:</u>	
			N/A
FINISHES:			
<u>Flooring:</u>			
Vinyl composition tile, VET,	096500		
rubber, linoleum, or sheet vinyl	096516		
<u>Base:</u>			
Resilient	096500		
<u>Ceiling:</u>			
Suspended acoustical	095113		
<u>Walls:</u>			
Painted concrete masonry units	042000/ 099100		
<u>LOOSE FURNISHINGS:</u>			
L1 (24) Student stools/chairs			
L2 (1) Teacher chair or stool			
L3 (4) Computer workstations			
L4 (12) 2-person work tables with epoxy tops with gas and electric			
Wastebasket			
Pencil sharpener			
<u>NOTES:</u>			
1. Finishes/Features: Refer to Chapter 9 for specification references.			

**COMMUNITY HEALTH AIDE
HOME HEALTH
CT-P2-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p><u>PROGRAM DESCRIPTION:</u> A combination of subject matter and experiences designed to prepare a person to serve as liaison between professional health workers and the recipients of health services. Instruction emphasizes basic understanding of biology, communicable diseases, environmental health, personal hygiene, infants, medicines, and family and community resources.</p> <p>Program Type: 2</p> <p>Size Requirements: 1,500 SF Lab</p> <p>Lab Requirements:</p> <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left;"><u>FINISHES:</u></th> <th style="text-align: left;"><u>Spec. 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NOTES:

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

**DENTAL LABORATORY TECHNOLOGY
CT-P2-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>PROGRAM DESCRIPTION:</u>		<u>FEATURES¹:</u>	Spec.
A combination of subject matter and experiences to prepare a person to execute the work in producing restorative appliances required for the oral health of the patients as authorized by the dentist.		<u>Fixed Items:</u>	<u>Ref.#</u>
Program Type:	2	16' of chalk/marker board	101100
Size Requirements:	1,500 SF Lab	8' of tack board	101100
Lab Requirements:		40' of sink base cabinets with 6 sinks and natural gas	123550
<u>FINISHES:</u>		40' of wall cabinets	123550
Flooring:		(6) Paper towel dispensers	102813
Vinyl composition tile, VET,	Spec. 096500	Pencil sharpener support	062000
rubber, linoleum, or sheet vinyl	Ref # 096516	Windows with integral blinds	085113
Base:		Projection screen, 6'x8'	115213
Resilient	096500	<u>Fire Suppression:</u>	
Ceiling:		Fire suppression system	211000
Suspended acoustical	095113	<u>Plumbing:</u>	
Walls:		Plumbing connections	
Painted concrete masonry units	042000/ 099100	221116/221119/224000	
<u>LOOSE FURNISHINGS:</u>		Safety shower/eyewash connections	224000
(24) Student stools/chairs		Master shut-off for gas	226313
(1) Teacher chair or stool		Gas connections	226313
(6) 4-person work tables with epoxy tops with gas and electric		<u>HVAC:</u>	
Wastebasket		Supply/return air system	Div. 23
Pencil sharpener		Independent temperature control	230923
		Grinding machine ventilation	Div. 23
		Localized ventilation for specific lab-produced fumes	Div. 23
		<u>Electrical:</u>	
		Fluorescent lighting, parabolic lenses:	265100
		Illumination level: See Table 8600-4	
		Multilevel switching	262726
		30 duplex receptacles (minimum)	262726
		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u>	
		1 video port	271533/271543
		1 voice port and phone	271513/273113
		8 data ports	271513
		Clock	275313
		Central sound system	275123
		Sound reinforcement system	275127
		Overhead projector	274119
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

**EMERGENCY MEDICAL TECHNICIAN
CT-P2-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p><u>PROGRAM DESCRIPTION:</u> Specialized classroom and practical experiences concerned with the preparation of certified Emergency Medical Technicians. Modules of instruction include preparatory; patient assessment; airway and cardiac arrest management; trauma patient management; medical patient management; and clinical experiences. The training prepares for membership in fire departments or other agencies that are involved in the rescue and emergency treatment of people.</p> <p>Program Type: 2</p> <p>Size Requirements: 1,500 SF Lab</p> <p>Lab Requirements:</p> <p><u>FINISHES:</u></p> <p>Flooring:</p> <table border="0"> <tr> <td>Vinyl composition tile, VET,</td> <td>Spec.</td> </tr> <tr> <td>rubber, sheet vinyl, or linoleum</td> <td><u>Ref #</u></td> </tr> <tr> <td>Optional: carpet</td> <td></td> </tr> </table> <p>Base:</p> <table border="0"> <tr> <td>Resilient</td> <td>096500</td> </tr> </table> <p>Ceiling:</p> <table border="0"> <tr> <td>Suspended acoustical</td> <td>095113</td> </tr> </table> <p>Walls:</p> <table border="0"> <tr> <td>Painted concrete masonry units</td> <td>042000/</td> </tr> <tr> <td></td> <td>099100</td> </tr> </table> <p><u>LOOSE FURNISHINGS:</u></p> <p>(12) Two-person work tables (24) Students chairs/stools (1) Teacher station & chair Wastebasket Pencil sharpener</p>	Vinyl composition tile, VET,	Spec.	rubber, sheet vinyl, or linoleum	<u>Ref #</u>	Optional: carpet		Resilient	096500	Suspended acoustical	095113	Painted concrete masonry units	042000/		099100	<p><u>FEATURES¹:</u></p> <p><u>Fixed Items:</u></p> <table border="0"> <tr> <td>16' of chalk/marker board</td> <td>101100</td> </tr> <tr> <td>8' of tack board</td> <td>101100</td> </tr> <tr> <td>30' of sink base cabinets w/2 sinks</td> <td>123550</td> </tr> <tr> <td>30' of wall cabinets</td> <td>123550</td> </tr> <tr> <td>Pencil sharpener support</td> <td>062000</td> </tr> <tr> <td>Windows with integral blinds</td> <td>085113</td> </tr> <tr> <td>Projection screen, 6'x8'</td> <td>115213</td> </tr> <tr> <td>(2) Paper towel dispensers</td> <td>102813</td> </tr> </table> <p><u>Fire Suppression:</u></p> <table border="0"> <tr> <td>Fire suppression system</td> <td>211000</td> </tr> </table> <p><u>Plumbing:</u></p> <table border="0"> <tr> <td>Plumbing connections</td> <td>221116/221119/224000</td> </tr> </table> <p><u>HVAC:</u></p> <table border="0"> <tr> <td>Supply/return air system</td> <td>Div. 23</td> </tr> <tr> <td>Independent temperature control</td> <td>230923</td> </tr> </table> <p><u>Electrical:</u></p> <table border="0"> <tr> <td>Fluorescent lighting</td> <td>265100</td> </tr> <tr> <td>Illumination level: See Table 8600-4</td> <td></td> </tr> <tr> <td>Multilevel switching</td> <td>262726</td> </tr> <tr> <td>6 duplex receptacles</td> <td>262726</td> </tr> <tr> <td>Double duplex receptacle adjacent to each data and video port</td> <td>262726</td> </tr> </table> <p><u>Communications:</u></p> <table border="0"> <tr> <td>1 video port</td> <td>271533/271543</td> </tr> <tr> <td>1 voice port and phone</td> <td>271513/273113</td> </tr> <tr> <td>1 data port near teacher workstation</td> <td>271513</td> </tr> <tr> <td>8 data ports</td> <td>271513</td> </tr> <tr> <td>Clock</td> <td>275313</td> </tr> <tr> <td>Central sound system</td> <td>275123</td> </tr> <tr> <td>Sound reinforcement system</td> <td>275127</td> </tr> <tr> <td>Overhead projector</td> <td>274119</td> </tr> </table> <p><u>Electronic Safety and Security:</u></p> <table border="0"> <tr> <td>Life safety devices per code</td> <td>283111</td> </tr> </table> <p><u>Miscellaneous:</u></p> <p>N/A</p>	16' of chalk/marker board	101100	8' of tack board	101100	30' of sink base cabinets w/2 sinks	123550	30' of wall cabinets	123550	Pencil sharpener support	062000	Windows with integral blinds	085113	Projection screen, 6'x8'	115213	(2) Paper towel dispensers	102813	Fire suppression system	211000	Plumbing connections	221116/221119/224000	Supply/return air system	Div. 23	Independent temperature control	230923	Fluorescent lighting	265100	Illumination level: See Table 8600-4		Multilevel switching	262726	6 duplex receptacles	262726	Double duplex receptacle adjacent to each data and video port	262726	1 video port	271533/271543	1 voice port and phone	271513/273113	1 data port near teacher workstation	271513	8 data ports	271513	Clock	275313	Central sound system	275123	Sound reinforcement system	275127	Overhead projector	274119	Life safety devices per code	283111
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1. Finishes/Features: Refer to Chapter 9 for specification references.

EXERCISE SCIENCE/SPORTS & RECREATION HEALTH CARE
CT-P2-1

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>PROGRAM DESCRIPTION:</u>	<u>FEATURES¹:</u>	Spec.
Utilizing business and industry technical standards and math, science, ELA, and technology framework in the study of organ systems, study of movement & associated functional response and adaptations, understanding scientific basis underlying exercise-induced physiological responses in athletic training, biomechanics, exercise physiology and nutrition for the prevention, diagnosis, and treatment of injuries.	<u>Fixed Items:</u>	<u>Ref.#</u>
	16' of chalk/marker board 8' of tack board 30' of sink base cabinets w/2 sinks 30' of wall cabinets Pencil sharpener support Windows with integral blinds Projection screen, 6'x8' (2) Paper towel dispensers	101100 101100 123550 123550 062000 085113 115213 102813
	<u>Fire Suppression:</u>	
	Fire suppression system	211000
Program Type: 2	<u>Plumbing:</u>	
Size Requirements: 1,500 SF Lab	Plumbing connections	221116/221119/224000
Lab Requirements:	<u>HVAC:</u>	
	Supply/return air system	Div. 23
	Independent temperature control	230923
<u>FINISHES:</u>	<u>Electrical:</u>	
Flooring:	Fluorescent lighting	265100
Vinyl composition tile, VET,	Illumination level: See Table 8600-4	
rubber, sheet vinyl, or linoleum	Multilevel switching	262726
Optional: carpet	6 duplex receptacles	262726
Base:	Double duplex receptacle adjacent to	
Resilient	each data and video port	262726
Ceiling:	<u>Communications:</u>	
Suspended acoustical	1 video port	271533/271543
Walls:	1 voice port and phone	271513/273113
Painted concrete masonry units	1 data port near teacher workstation	271513
042000/	8 data ports	271513
099100	Clock	275313
<u>LOOSE FURNISHINGS:</u>	Central sound system	275123
(10) Training tables	Sound reinforcement system	275127
(24) Students chairs/stools	Overhead projector	274119
(1) Teacher station & chair	<u>Electronic Safety and Security:</u>	
Wastebasket	Life safety devices per code	283111
Pencil sharpener	<u>Miscellaneous:</u>	
	N/A	

NOTES:

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

**HEALTH SUPPORT PATHWAY
THERAPEUTIC PATHWAY
CT-P2-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p><u>PROGRAM DESCRIPTION:</u> A combination of subject matter and experience designed to prepare a person to gain entry level experience in a Pre-Nursing program; includes a current knowledge of concepts, principles, processes, and skills relating to health, deviations from health, nutrition, pharmacology, communication, human development, teach learning principles, current technology, humanities, and biological, social, and behavioral sciences. This Tech Prep program of study prepares students for continued education in an approved nursing education program preparing for Licensure as a professional (registered) nurse.</p> <p>Program Type: 2</p> <p>Size Requirements: 1,500 SF Lab</p> <p>Lab Requirements:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 80%;"><u>FINISHES:</u></td> <td style="text-align: right;">Spec.</td> </tr> <tr> <td></td> <td style="text-align: right;"><u>Ref #</u></td> </tr> <tr> <td>Flooring:</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Vinyl composition tile, VET,</td> <td style="text-align: right;">096500</td> </tr> <tr> <td style="padding-left: 40px;">rubber, sheet vinyl, or linoleum</td> <td style="text-align: right;">096516</td> </tr> <tr> <td>Base:</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Resilient</td> <td style="text-align: right;">096500</td> </tr> <tr> <td>Ceiling:</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Suspended acoustical</td> <td style="text-align: right;">095113</td> </tr> <tr> <td>Walls:</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Painted concrete masonry units</td> <td style="text-align: right;">042000/ 099100</td> </tr> <tr> <td colspan="2"> <u>LOOSE FURNISHINGS:</u></td> </tr> <tr> <td style="padding-left: 20px;">(12) Two-person work tables</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">(24) Students chairs/stools</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">(1) Teacher station & chair</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Wastebasket</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Pencil sharpener</td> <td></td> </tr> </table>	<u>FINISHES:</u>	Spec.		<u>Ref #</u>	Flooring:		Vinyl composition tile, VET,	096500	rubber, sheet vinyl, or linoleum	096516	Base:		Resilient	096500	Ceiling:		Suspended acoustical	095113	Walls:		Painted concrete masonry units	042000/ 099100	 <u>LOOSE FURNISHINGS:</u>		(12) Two-person work tables		(24) Students chairs/stools		(1) Teacher station & chair		Wastebasket		Pencil sharpener		<p style="text-align: right;">Spec.</p> <p><u>FEATURES¹:</u></p> <p><u>Fixed Items:</u></p> <table style="width: 100%; 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1. Finishes/Features: Refer to Chapter 9 for specification references.

**HEALTH INFORMATICS PATHWAY
HEALTH UNIT COORDINATOR
CT-P2-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

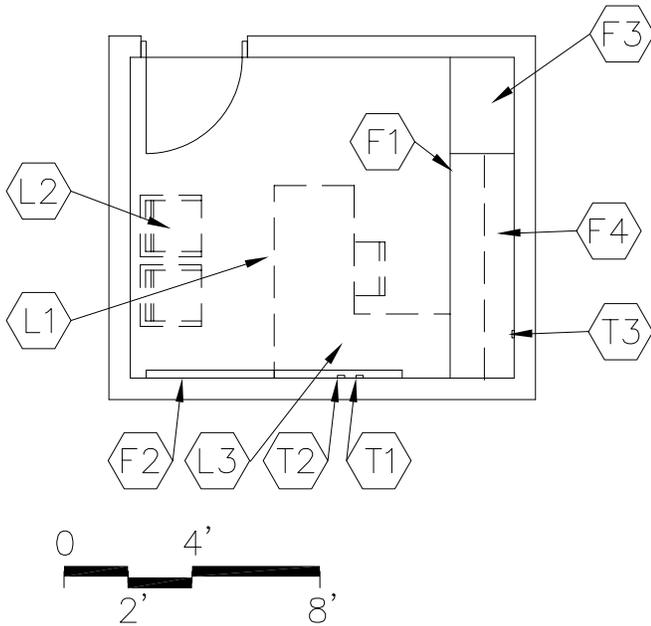
<u>PROGRAM DESCRIPTION:</u>	Spec. Ref.#
<u>Health Informatics Pathway:</u> targets three or more technician-level occupations within one or more of the following areas – rehabilitation services (including occupational or physical therapy); medical diagnostic and treatment services (including respiratory therapy, radiography, perfusion, nuclear medicine, surgical technology, cardiovascular, electrocardiogram, sonography); medical laboratory technologies (including hematology, cytology, blood bank, and histology); mental health services; pharmacy; and medical administrative services (including health information/medical records).	
<u>Health Unit Coordinator:</u> This is the job exit for grade 12. This clustered Tech Prep program of study prepares students for continued education and training for employment as an allied health technician.	
Program Type: 2	
Size Requirements: 1,500 SF Lab	
Lab Requirements:	
<u>FINISHES:</u>	Spec. Ref #
Flooring:	
Vinyl composition tile, VET, rubber, linoleum, or sheet vinyl	096500 096516
Base:	
Resilient	096500
Ceiling:	
Suspended acoustical	095113
Walls:	
Painted concrete masonry units	042000/ 099100
<u>LOOSE FURNISHINGS:</u>	
L1 (24) Student stools/chairs	
L2 (1) Teacher chair or stool	
L3 (4) Computer workstations	
L4 (12) 2-person work tables with epoxy tops with gas and electric Wastebasket Pencil sharpener	
<u>FEATURES¹:</u>	
<u>Fixed Items:</u>	
F1 16' of chalk/marker board	101100
F2 8' of tack board	101100
F3 Demonstration table/teacher desk	123550
F4 60' of perimeter sink base cabinets with 5 sinks	123550
F5 30' of wall cabinets	123550
F6 (5) Paper towel dispensers	102813
F7 Safety shower/eyewash	224000
F8 Pencil sharpener support	062000
F9 Windows with integral blinds	085113
F10 Undercounter refrigerator	113100
F11 Projection screen, 6'x8'	115213
<u>Fire Suppression:</u>	
Fire suppression system	211000
<u>Plumbing:</u>	
Plumbing connections 221116/221119/224000	224000
Safety shower/eyewash connections	224000
Master shut-off for gas	226313
Gas connections	226313
<u>HVAC:</u>	
Supply/return air system	Div. 23
Independent temperature control	230923
Manual exhaust	Div. 23
<u>Electrical:</u>	
Fluorescent lighting, parabolic lenses:	265100
Illumination level: See Table 8600-4	
Multilevel switching	262726
6 duplex receptacles (minimum)	262726
Double duplex receptacle adjacent to each data and video port	262726
Means of egress lighting per code	265100
<u>Communications:</u>	
T1 1 video port	271533/271543
T2 1 voice port and phone	271513/273113
T3 1 data port at demonstration table	271513
T4 11 data ports for student use	271513
Clock	275313
Central sound system	275123
Sound reinforcement system	275127
T5 Overhead projector	274119
<u>Electronic Safety and Security:</u>	
Life safety devices per code	283111
<u>Miscellaneous:</u> N/A	
<u>NOTES:</u>	
1. Finishes/Features: Refer to Chapter 9 for specification references.	

<p><u>PROGRAM DESCRIPTION:</u> A combination of subject matter and supervised clinical experiences designed to prepare a person to give direct nursing care under the supervision of a registered nurse, licensed physician, or dentist. Instruction includes safety and infection control, first-aid and CPR, legal and ethical responsibilities, coordinated care, goal-oriented care, environmental safety, treatments and procedures, physiological adaptation, mobility, comfort, basic care, psychosocial adaptation, growth and development, prevention and early treatment of disease, and reduction of risk potential.</p> <p>Program Type: 2</p> <p>Size Requirements: 1,500 SF Lab</p> <p>Lab Requirements:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 80%;"><u>FINISHES:</u></td> <td style="text-align: right; vertical-align: bottom;">Spec. 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NOTES:

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

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PROGRAM ACTIVITIES:

- Private space for program instructor
- One-on-one conferences with academic instructors, students, etc.

SPATIAL RELATIONSHIPS:

- Near related lab
- Direct access to school circulation areas

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY: 1 - 3 persons
SIZE: 120 SF

NOTES:

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

**OFFICE
CT-P2-2**

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

NOTES:

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

PROGRAM ACTIVITIES:

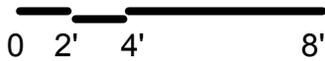
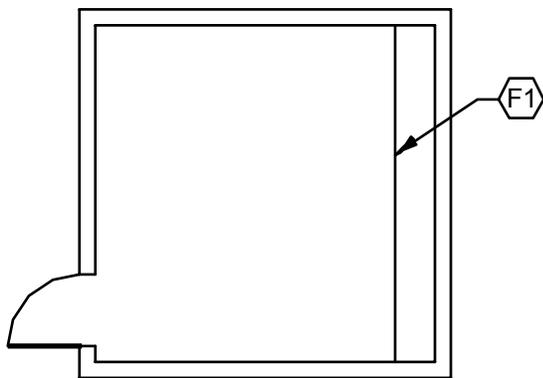
- Space for storage of lab equipment

SPATIAL RELATIONSHIPS:

- Near related lab

ENVIRONMENTAL CONSIDERATIONS:

N/A



CAPACITY:
SIZE:

N/A
200 SF

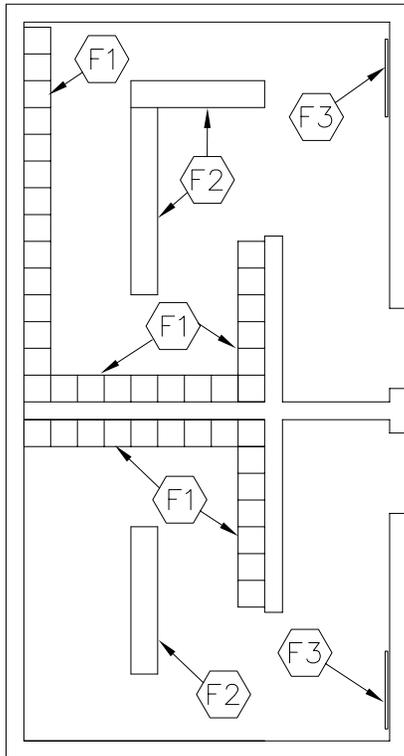
NOTES:

**STORAGE AREA
CT-P2-3**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items¹:</u>	
Sealed concrete	033000	F1 8'-20' of open shelving	
		Depth may vary (fixed or loose)	123550
Base:		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Exposed structure	---	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>	
N/A		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		Duplex receptacles	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



50 total lockers

PROGRAM ACTIVITIES:

- Personal and health needs for the program Specific users.
- Changing of clothes and/or uniforms.
- Storage of personal items while students are in lab.

SPATIAL RELATIONSHIPS:

- Adjacent to related lab

ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting
- Sanitary and durable finishes.
- Environmental sound control
Wall minimum STC 40
Ceiling minimum CAC 35, NRC **0.70**

CAPACITY:
SIZE:

N/A
450 SF

NOTES:

1. Large and small changing areas are interchangeable for either males or females. Determination based on male/female ratio within each program.

**CHANGING ROOM
CT-P2-4**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES</u> ¹ :	Spec. Ref.#	<u>FEATURES</u> ¹ :	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items</u> ¹ :	
Sealed concrete	033000	F1 Student lockers	105113
Optional: Vinyl composition tile, linoleum, or rubber	096500 096516	F2 Locker benches	062000
		F3 24" x 60" mirror	102813
<u>Base:</u>		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
<u>Ceiling:</u>		<u>Plumbing:</u>	
Suspended, acoustical with high impact hold down clips	095113	N/A	
<u>Walls:</u>		<u>HVAC:</u>	
Painted concrete masonry units 042000 / 099100		Supply/Return air system	Div. 23
		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		Individual temperature control	230923
<u>LOOSE FURNISHINGS</u>		<u>Electrical:</u>	
Wastebaskets		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		2 Duplex receptacles	262726
		Means of egress lighting per code	265100
		<u>Communications:</u>	
		Clock	275313
		Central Sound System	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

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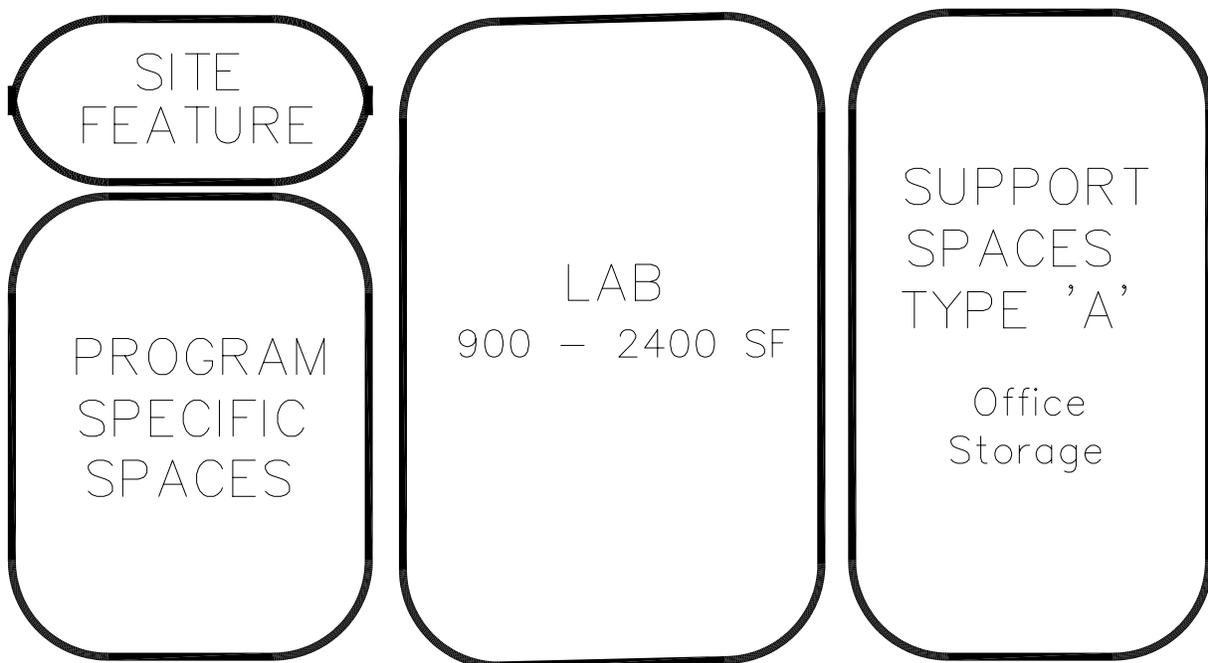
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E.	Office Plate	6313-31
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Program Type 3

Description: Small to medium sized lab space with typical support space. Additionally, this program requires specialized auxiliary spaces and possible site features.

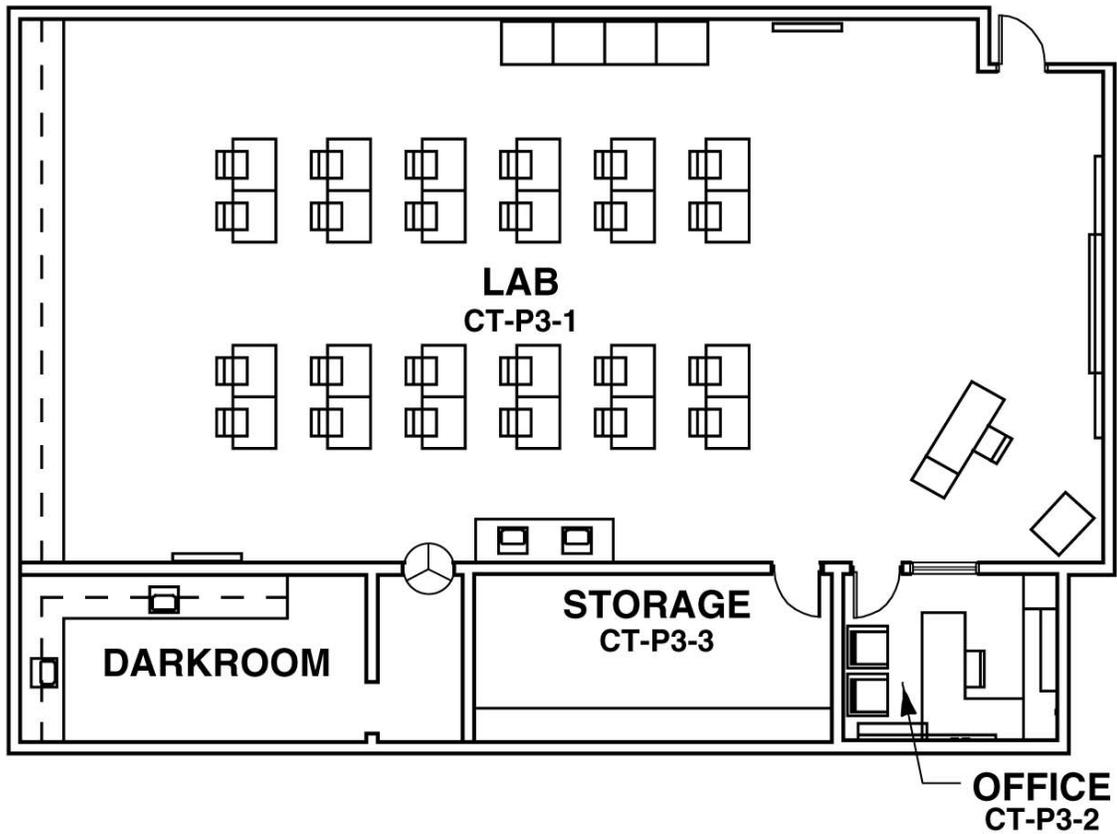
This program is to utilize standard construction and be one-story (16' +/- tall) tall. Lab, support, and specialty spaces to have finished floor, painted walls, and suspended acoustical ceiling.

**NOTES:**

This is an example of how the Program Type 3 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 Program Type 3 space plates:

- CT-P3-1 Lab
- CT-P3-2 Office
- CT-P3-3 Storage

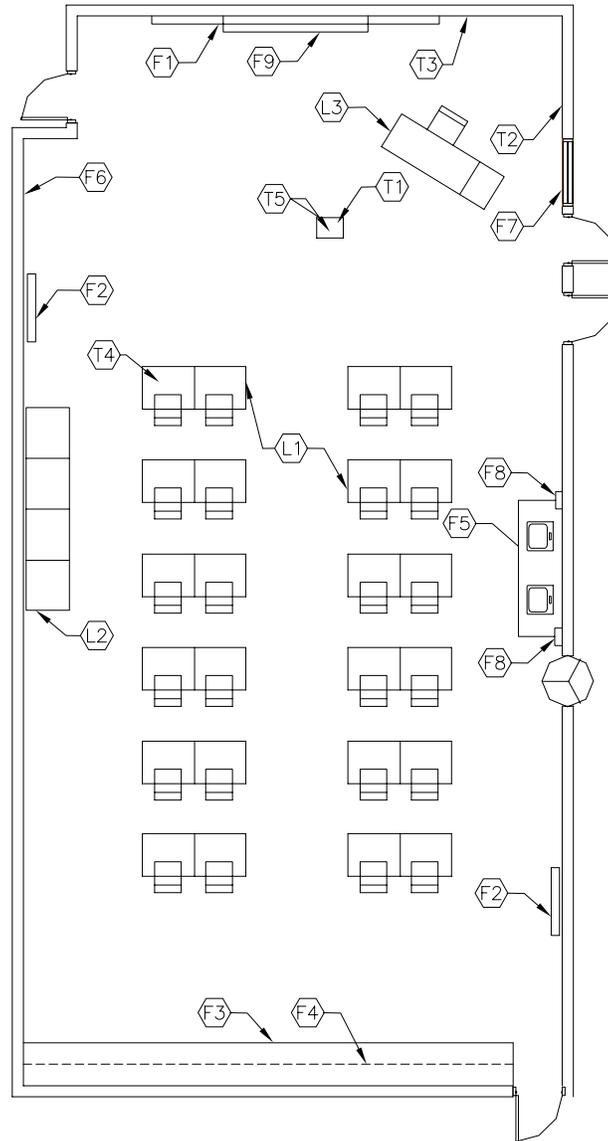


Program Type 3

This is an example to show the possible relationships of spaces for this program type.

NOTES:

1. See lab descriptions within this section for specific lab requirements, including program specific rooms.
2. See individual space plates at the end of this section for specific requirements for the storage room and office.



CAPACITY:	24 Students
SIZE:	900 – 2,400 SF
	(see lab summaries for exact sizes)
ANCILLARY SPACES:	CT-P3-2 and CT-P3-3

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.
2. Graphic plate is an example only. Other labs within this program are not drawn – refer to lab summaries within this program type for information on a particular lab.

PROGRAM ACTIVITIES:

- Large and small group instruction
- Group and individual work
- Demonstrations

SPATIAL RELATIONSHIPS:

- Near other related labs
- Adjacent to typical support spaces
- Proximity to large group restrooms
- Located away from noisy or public activities
- Proximity to core academic area and common use areas
- Flexibility of space

ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting with 80% visual comfort probability level.
- Optional: Natural light opening equal to 5% minimum of floor area, with an operable vent
- Environmental sound control -
 walls minimum STC 50
 ceiling minimum CAC 35, NRC **0.70**
- Flexibility of space

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Loose Furnishings: Refer to Lab Profiles within this section.
3. Loose Furnishings, fixed equipment, utility locations, and general footprint of room shown represent one of many possible arrangements.

COMMERCIAL ART OCCUPATIONS

<u>PROGRAM DESCRIPTION:</u>	Organized specialized learning experiences that include theory, laboratory, and shop work as they relate to the design and execution of layouts and illustrations for advertising, display, and instructional manuals. Instruction includes advertising theory and preparation of copy, lettering, poster design, fashion illustration, silk-screen, air brush and touch-up, inks and color dynamics, package and product design, drawings for line and halftone reproduction, and other display devices and exhibits. Instruction leads to preparation for various types of employment, such as Fashion Illustrator, Technical Illustrator, Interior Decorator, and Advertising Artist.	<u>FEATURES¹:</u>	Spec.																											
Program Type:	3	<u>Fixed Items:</u>	<u>Ref.#</u>																											
Size Requirements:	1,500 SF Lab	<table border="0"> <tr><td>F1</td><td>16' of chalk/marker board</td><td>101100</td></tr> <tr><td>F2</td><td>8' of tack board</td><td>101100</td></tr> <tr><td>F3</td><td>30' of base cabinets</td><td>123550</td></tr> <tr><td>F4</td><td>30' of wall cabinets</td><td>123550</td></tr> <tr><td>F5</td><td>8' of sink base cabinets w/2 sinks</td><td>123550</td></tr> <tr><td>F6</td><td>Pencil sharpener support</td><td>062000</td></tr> <tr><td>F7</td><td>Windows with integral blinds</td><td>085113</td></tr> <tr><td>F8</td><td>(2) Paper towel dispensers</td><td>102813</td></tr> <tr><td>F9</td><td>Projection screen, 6'x8'</td><td>115213</td></tr> </table>	F1	16' of chalk/marker board	101100	F2	8' of tack board	101100	F3	30' of base cabinets	123550	F4	30' of wall cabinets	123550	F5	8' of sink base cabinets w/2 sinks	123550	F6	Pencil sharpener support	062000	F7	Windows with integral blinds	085113	F8	(2) Paper towel dispensers	102813	F9	Projection screen, 6'x8'	115213	
F1	16' of chalk/marker board	101100																												
F2	8' of tack board	101100																												
F3	30' of base cabinets	123550																												
F4	30' of wall cabinets	123550																												
F5	8' of sink base cabinets w/2 sinks	123550																												
F6	Pencil sharpener support	062000																												
F7	Windows with integral blinds	085113																												
F8	(2) Paper towel dispensers	102813																												
F9	Projection screen, 6'x8'	115213																												
Lab Requirements:		<u>Fire Suppression:</u>																												
<u>FINISHES:</u>	Spec.	Fire suppression system	211000																											
Flooring:	<u>Ref #</u>	<u>Plumbing:</u>																												
Carpet	096816	Plumbing connections																												
Optional: vinyl composition tile,	096500	221116/221119/224000																												
VET, sheet vinyl, or linoleum	096516	<u>HVAC:</u>																												
Base:		Supply/return air system	Div. 23																											
Resilient	096500	Independent temperature control	230923																											
Ceiling:		<u>Electrical:</u>																												
Suspended acoustical	095113	Fluorescent lighting	265100																											
Walls:		Illumination level: See Table 8600-4																												
Painted concrete masonry units	042000/ 099100	½ cool white, ½ daylight lamps																												
		Color rendering index=80 minutes																												
		Kelvin=4,000 minutes																												
		Multilevel switching	262726																											
		20 duplex receptacles	262726																											
		Double duplex receptacle adjacent to																												
		each data and video port	262726																											
		<u>Communications:</u>																												
		T1 1 video port	271533/271543																											
		T2 1 voice port and phone	271513/273113																											
		T3 1 data port near teacher workstation	271513																											
		T4 34 data ports	271513																											
		Clock	275313																											
		Central sound system	275123																											
		Sound reinforcement system	275127																											
		T5 Overhead projector	274119																											
		<u>Electronic Safety and Security:</u>																												
		Life safety devices per code	283111																											
<u>LOOSE FURNISHINGS:</u>		<u>Miscellaneous:</u>																												
L1 (24) Computer workstation furniture & chairs		N/A																												
L2 (4) Computer scanning stations																														
L3 (1) Teacher station & chair																														
Wastebasket																														
Pencil sharpener																														

NOTES:

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

COMMERCIAL PHOTOGRAPHY OCCUPATIONS
Darkroom

<p>Program Type: 3</p> <p>Size Requirements: 250 SF</p> <p>Requirements:</p> <p><u>FINISHES:</u> Flooring: Vinyl composition tile, sealed concrete, VET, or sheet vinyl</p> <p>Base: Resilient</p> <p>Ceiling: Suspended acoustical</p> <p>Walls: Painted concrete masonry units</p> <p><u>LOOSE FURNISHINGS:</u> Wastebasket</p> <p><u>ENVIRONMENTAL CONSIDERATIONS:</u></p> <ul style="list-style-type: none"> ▪ Wall minimum STC 45 ▪ Ceiling minimum CAC 35, NRC 0.70 ▪ Uniform lighting with 80% visual comfort probability level 	<p style="text-align: right;">Spec. Ref.#</p> <p><u>FEATURES¹:</u></p> <p><u>Fixed Items:</u></p> <p> 20' of epoxy top base cabinets 123550 with 2 sinks</p> <p> 20' of wall cabinets 123550</p> <p> (2) Paper towel dispensers 102813</p> <p> Access via revolving darkroom door 083436</p> <p><u>Fire Suppression:</u></p> <p> Fire suppression system 211000</p> <p><u>Plumbing:</u></p> <p> Plumbing connections 221116/221119/224000</p> <p> Eyewash 224000</p> <p><u>HVAC:</u></p> <p> Supply/return air system Div. 23</p> <p> Independent temperature control 230923</p> <p> Independent ventilation Div. 23</p> <p><u>Electrical:</u></p> <p> Keyed fluorescent lighting 265100</p> <p> Illumination level: See Table 8600-4</p> <p> Darkroom lighting on keyed switch 265100</p> <p> Single level switching 262726</p> <p> 6 duplex receptacles 262726</p> <p><u>Communications:</u></p> <p> Clock 275313</p> <p> Central sound system 275123</p> <p><u>Electronic Safety and Security:</u></p> <p> Life safety devices per code 283111</p> <p><u>Miscellaneous:</u></p> <p> N/A</p>
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NOTES:

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

COMMERCIAL PHOTOGRAPHY OCCUPATIONS

<u>PROGRAM DESCRIPTION:</u>		Spec.
Organized specialized learning experiences that include theory, laboratory, and studio work as each relates to all phases of camera uses and photographic processing. Instruction includes composition and color dynamics; contact printing and enlarging; film development; airbrush and retouching; coloring; copying; utilization of camera, meters, and other photographic equipment. Areas of study include portrait, commercial, and industrial photography, leading to employment as a Commercial Photographer, Airbrush Artist, Camera person (offset printing), Audiovisual Projectionist, and Camera person (broadcasting).		Ref.#
Program Type: 3		
Size Requirements: 1,500 SF Lab		
Lab Requirements:		
FINISHES:	Spec.	
	Ref #	
Flooring:		
Carpet	096816	
Optional: vinyl composition tile, VET, sheet vinyl, or linoleum	096500 096516	
Base:		
Resilient	096500	
Ceiling:		
Suspended acoustical	095113	
Walls:		
Painted concrete masonry units	042000/ 099100	
LOOSE FURNISHINGS:		
(12) 2-person work tables with epoxy tops		
(24) Student stools/chairs		
(1) Teacher station & chair		
Wastebasket		
Pencil sharpener		
FEATURES¹:		
Fixed Items:		
16' of chalk/marker board		101100
16' of tack board		101100
30' of wall cabinets		123550
30' of sink base cabinets w/2 sinks		123550
Pencil sharpener support		062000
Windows with integral blinds		085113
(2) Paper towel dispensers		102813
Projection screen, 6'x8'		115213
Safety shower/eyewash		224000
Seamless cove built into one corner of lab		
Overhead metal pipe grid (48" o.c., both ways) to support studio lights & accessories		055000
Cyclorama curtain & track, min. of 2 walls		116143
Ceiling height 10' min., 12' preferred		
Fire Suppression:		
Fire suppression system		211000
Plumbing:		
Plumbing connections		221116/221119/224000
HVAC:		
Supply/return air system		Div. 23
Independent temperature control		230923
Electrical:		
Fluorescent lighting		265100
Illumination level: See Table 8600-4		
½ cool white, ½ daylight lamps		
Color rendering index=80 minutes		
Kelvin=4,000 minutes		
Track lighting		265100
Multilevel switching		262726
20 duplex receptacles		262726
Double duplex receptacle adjacent to each data and video port		262726
Communications:		
1 video port		271533/271543
1 voice port and phone		271513/273113
1 data port near teacher workstation		271513
8 data ports		271513
Clock		275313
Central sound system		275123
Sound reinforcement system		275127
Overhead projector		274119
Electronic Safety and Security:		
Life safety devices per code		283111
Miscellaneous:		
N/A		

NOTES:

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

COMMERCIAL PHOTOGRAPHY OCCUPATIONS
Print Darkroom

<p>Program Type: 3</p> <p>Size Requirements: 350 SF</p> <p>Requirements:</p> <p><u>FINISHES:</u> Flooring: Vinyl composition tile 096500 Option: sealed concrete 033000</p> <p>Base: Resilient 096500</p> <p>Ceiling: Suspended acoustical 095113</p> <p>Walls: Painted concrete masonry units 042000/ 099100</p> <p><u>LOOSE FURNISHINGS:</u> Wastebasket</p> <p><u>ENVIRONMENTAL CONSIDERATIONS:</u></p> <ul style="list-style-type: none"> ▪ Wall minimum STC 45 ▪ Ceiling minimum CAC 35, NRC 0.70 ▪ Uniform lighting with 80% visual comfort probability level 	<p style="text-align: right;">Spec. <u>Ref.#</u></p> <p><u>FEATURES¹:</u> <u>Fixed Items:</u> 30' of epoxy top base cabinets 123550 with 2 sinks 15' of wall cabinets 123550 10' of epoxy shelving 123550 (2) Paper towel dispensers 102813 Access via revolving darkroom door 083436</p> <p><u>Fire Suppression:</u> Fire suppression system 211000</p> <p><u>Plumbing:</u> Plumbing connections 221116/221119/224000 Eyewash 224500</p> <p><u>HVAC:</u> Supply/return air system Div. 23 Independent temperature control 230923 Independent ventilation Div. 23</p> <p><u>Electrical:</u> Keyed fluorescent lighting 265100 Illumination level: See Table 8600-4 Darkroom lighting on keyed switch 265100 Single level switching 262726 12 duplex receptacles 262726</p> <p><u>Communications:</u> Clock 275313 Central sound system 275123</p> <p><u>Electronic Safety and Security:</u> Life safety devices per code 283111</p> <p><u>Miscellaneous:</u> N/A</p>
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NOTES:

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

COMMERCIAL PHOTOGRAPHY OCCUPATIONS

Film Darkroom

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p>Program Type: 3</p> <p>Size Requirements: 200 SF</p> <p>Requirements:</p> <p><u>FINISHES:</u> Flooring: Vinyl composition tile Option: sealed concrete</p> <p>Base: Resilient</p> <p>Ceiling: Suspended acoustical</p> <p>Walls: Painted concrete masonry units</p> <p><u>LOOSE FURNISHINGS:</u> Wastebasket</p> <p><u>ENVIRONMENTAL CONSIDERATIONS:</u></p> <ul style="list-style-type: none"> ▪ Wall minimum STC 50 ▪ Ceiling minimum CAC 35, NRC 0.70 ▪ Uniform lighting with 80% visual comfort probability level 	<p style="text-align: right;">Spec. Ref.#</p> <p><u>FEATURES¹:</u> <u>Fixed Items:</u> 16' of epoxy top base cabinets with 2 sinks 123550 16' of wall cabinets 123550 (2) Paper towel dispensers 102813 Access via revolving darkroom door 083436</p> <p><u>Fire Suppression:</u> Fire suppression system 211000</p> <p><u>Plumbing:</u> Plumbing connections 221116/221119/224000 Eyewash 224500</p> <p><u>HVAC:</u> Supply/return air system Div. 23 Independent temperature control 230923 Independent ventilation Div. 23</p> <p><u>Electrical:</u> Keyed fluorescent lighting 265100 Illumination level: See Table 8600-4 Darkroom lighting on keyed switch 265100 Single level switching 262726 12 duplex receptacles 262726</p> <p><u>Communications:</u> Clock 275313 Central sound system 275123</p> <p><u>Electronic Safety and Security:</u> Life safety devices per code 283111</p> <p><u>Miscellaneous:</u> N/A</p>
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NOTES:

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

COMMERCIAL PHOTOGRAPHY OCCUPATIONS
Film Loading Room(s)

<p>Program Type: 3</p> <p>Size Requirements: 80 SF</p> <p>Requirements:</p> <p><u>FINISHES:</u> Flooring: Vinyl composition tile Option: sealed concrete</p> <p>Base: Resilient</p> <p>Ceiling: Suspended acoustical</p> <p>Walls: Painted concrete masonry units</p> <p><u>LOOSE FURNISHINGS:</u> Wastebasket (1 per room)</p> <p><u>ENVIRONMENTAL CONSIDERATIONS:</u></p> <ul style="list-style-type: none"> ▪ Wall minimum STC 50 ▪ Ceiling minimum CAC 35, NRC 0.70 ▪ Uniform lighting with 80% visual comfort probability level 	<p style="text-align: right;">Spec. Ref.#</p> <p><u>FEATURES¹:</u> <u>Fixed Items:</u> 8' of plastic laminate countertop 123550 Doors to receive light-tight perimeter seal</p> <p><u>Fire Suppression:</u> Fire suppression system 211000</p> <p><u>Plumbing:</u> N/A</p> <p><u>HVAC:</u> Supply/return air system Div. 23</p> <p><u>Electrical:</u> Fluorescent lighting 265100 Illumination level: See Table 8600-4 Darkroom lighting on keyed switch 265100 Single level switching 262726 4 duplex receptacles 262726 Warning light outside of room 265100</p> <p><u>Communications:</u> Central sound system 275123</p> <p><u>Electronic Safety and Security:</u> Life safety devices per code 283111</p> <p><u>Miscellaneous:</u> N/A</p>
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NOTES:

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

COMMERCIAL PHOTOGRAPHY OCCUPATIONS
Film Loading Room(s)

<p>Program Type: 3</p> <p>Size Requirements: 80 SF</p> <p>Requirements:</p> <p><u>FINISHES:</u> Flooring: Vinyl composition tile Option: sealed concrete</p> <p>Base: Resilient</p> <p>Ceiling: Suspended acoustical</p> <p>Walls: Painted concrete masonry units</p> <p><u>LOOSE FURNISHINGS:</u> Wastebasket (1 per room)</p> <p><u>ENVIRONMENTAL CONSIDERATIONS:</u></p> <ul style="list-style-type: none"> ▪ Wall minimum STC 50 ▪ Ceiling minimum CAC 35, NRC 0.65 ▪ Uniform lighting with 80% visual comfort probability level 	<p style="text-align: right;">Spec. Ref.#</p> <p><u>FEATURES¹:</u> <u>Fixed Items:</u> 8' of plastic laminate countertop 123550 Doors to receive light-tight perimeter seal</p> <p><u>Fire Suppression:</u> Fire suppression system 211000</p> <p><u>Plumbing:</u> N/A</p> <p><u>HVAC:</u> Supply/return air system Div. 23</p> <p><u>Electrical:</u> Fluorescent lighting 265100 Illumination level: See Table 8600-4 Darkroom lighting on keyed switch 265100 Single level switching 262726 4 duplex receptacles 262726 Warning light outside of room 265100</p> <p><u>Communications:</u> Central sound system 275123</p> <p><u>Electronic Safety and Security:</u> Life safety devices per code 283111</p> <p><u>Miscellaneous:</u> N/A</p>
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NOTES:

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

EARLY CHILDHOOD EDUCATION AND CARE

CHAPTER 6: CAREER-TECHNICAL SCHOOL

CT-P3-1

<u>PROGRAM DESCRIPTION:</u>	Preparation for employment in child care and guidance. Includes instruction and experiences to develop competencies in teaching and guiding young children. Areas of study include promoting physical, intellectual, social, and emotional growth and development of children; creating a safe, healthy learning environment; program operations in early childhood education and care; promoting positive and productive relationships with families; law, regulations, and policies related to child care services and maintenance of child care environments.	<u>FEATURES¹:</u>	Spec.																				
Program Type:	3	<u>Fixed Items:</u>	<u>Ref.#</u>																				
Size Requirements:	1,500 SF Lab	<table border="0"> <tr><td>16' of chalk/marker board</td><td>101100</td></tr> <tr><td>16' of tack board</td><td>101100</td></tr> <tr><td>30' of wall cabinets</td><td>123550</td></tr> <tr><td>30' of sink base cabinets with 1 sink</td><td>123550</td></tr> <tr><td>10' of reception counter</td><td>123550</td></tr> <tr><td>10' of toddler height sink base cabinets with 1 sink</td><td>123550</td></tr> <tr><td>Pencil sharpener support</td><td>062000</td></tr> <tr><td>Windows with integral blinds</td><td>085113</td></tr> <tr><td>(2) Paper towel dispensers</td><td>102813</td></tr> <tr><td>Projection screen, 6'x8'</td><td>115213</td></tr> </table>	16' of chalk/marker board	101100	16' of tack board	101100	30' of wall cabinets	123550	30' of sink base cabinets with 1 sink	123550	10' of reception counter	123550	10' of toddler height sink base cabinets with 1 sink	123550	Pencil sharpener support	062000	Windows with integral blinds	085113	(2) Paper towel dispensers	102813	Projection screen, 6'x8'	115213	
16' of chalk/marker board	101100																						
16' of tack board	101100																						
30' of wall cabinets	123550																						
30' of sink base cabinets with 1 sink	123550																						
10' of reception counter	123550																						
10' of toddler height sink base cabinets with 1 sink	123550																						
Pencil sharpener support	062000																						
Windows with integral blinds	085113																						
(2) Paper towel dispensers	102813																						
Projection screen, 6'x8'	115213																						
Lab Requirements:		<u>Fire Suppression:</u>																					
		Fire suppression system	211000																				
		<u>Plumbing:</u>																					
		Plumbing connections 221116/221119/224000																					
		Toddler height drinking fountain	224000																				
<u>FINISHES:</u>	Spec. <u>Ref #</u>	<u>HVAC:</u>																					
Flooring:		Supply/return air system	Div. 23																				
30% Carpet	096816	Independent temperature control	230923																				
70% Vinyl composition tile, VET, sheet vinyl, or linoleum	096500																						
	096516	<u>Electrical:</u>																					
Base:		Fluorescent lighting	265100																				
Resilient	096500	Illumination level: See Table 8600-4																					
Ceiling:		Multilevel switching	262726																				
Suspended acoustical	095113	10 duplex receptacles	262726																				
Walls:		Double duplex receptacle adjacent to each data and video port	262726																				
Painted concrete masonry units	042000/ 099100	<u>Communications:</u>																					
		1 video port	271533/271543																				
		1 voice port and phone	271513/273113																				
<u>LOOSE FURNISHINGS:</u>		8 data ports	271513																				
Wastebasket		Clock	275313																				
Pencil sharpener		Central sound system	275123																				
		Sound reinforcement system	275127																				
		Overhead projector	274119																				
		<u>Electronic Safety and Security:</u>																					
		Life safety devices per code	283111																				
		<u>Miscellaneous:</u>																					
		N/A																					

NOTES:

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

SITE FEATURES:

Playground Area

- Provide 60 SF per child served
- Follow applicable safety guidelines for different age groups.
- Plan for play activities that include rocking, swinging, balancing, climbing, and sliding.
- Locate equipment with moving parts, such as swings, at the perimeter of the play area. Use fence or planting beds to prevent children from inadvertently stepping into path of moving equipment.
- Surfacing is to be resilient and installed at a sufficient depth to meet current safety guidelines. It should be a nonsplintering surface where children may be crawling. Avoid using black surfacing.
- Provide edging to keep loose soft surfacing within bounds of the play area. Depress soft surfacing material below edging. Provide underground drain system and geotextile below soft surfacing.
- Increase the depth of soft surface material in areas of high use such as the base of swings and slides.
- Possible play equipment includes the following: swing set, modular play structure, tot track, four square, and hop scotch.
- Protect entire play area with fencing.

**EARLY CHILDHOOD EDUCATION AND CARE
Observation Room**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

Program Type: 3		FEATURES¹:	Spec. Ref.#
Size Requirements: 120 SF		Fixed Items: Interior window with one-way glass	081113/088000
Requirements:		Fire Suppression: Fire suppression system	211000
FINISHES:	Spec. Ref #	Plumbing: N/A	
Flooring:		HVAC: Supply/return air system	Div. 23
Carpet	096816	Independent temperature control	230923
Option: Vinyl composition tile	096500	Electrical: Fluorescent lighting	265100
Base:		Illumination level: See Table 8600-4	
Resilient	096500	Single level switching	262726
Ceiling:		2 duplex receptacles	262726
Suspended acoustical	095113	Communications: Central sound system	275123
Walls:		Electronic Safety and Security: Life safety devices per code	283111
Painted concrete masonry units	042000/ 099100	Miscellaneous: N/A	
LOOSE FURNISHINGS:			
N/A			
ENVIRONMENTAL CONSIDERATIONS:			
▪ Wall minimum STC 50			
▪ Ceiling minimum CAC 35, NRC 0.70			
▪ Uniform lighting with 80% visual comfort probability level			

NOTES:

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

**EARLY CHILDHOOD EDUCATION AND CARE
Infants Room**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p>Program Type: 3</p> <p>Size Requirements: 700 SF</p> <p>Requirements:</p> <p><u>FINISHES:</u></p> <p>Flooring:</p> <p style="padding-left: 20px;">Carpet 096816</p> <p style="padding-left: 20px;">Vinyl composition tile, VET, 096500</p> <p style="padding-left: 20px;">Sheet vinyl, or linoleum at sink 096516</p> <p>Base:</p> <p style="padding-left: 20px;">Resilient 096500</p> <p>Ceiling:</p> <p style="padding-left: 20px;">Suspended acoustical 095113</p> <p>Walls:</p> <p style="padding-left: 20px;">Painted concrete masonry units 042000/ 099100</p> <p><u>LOOSE FURNISHINGS:</u></p> <p style="padding-left: 20px;">Staff chair</p> <p style="padding-left: 20px;">12' of bookcases</p> <p style="padding-left: 20px;">3 playpens</p> <p style="padding-left: 20px;">12 cribs</p> <p style="padding-left: 20px;">2 rocking chairs</p> <p style="padding-left: 20px;">Table 18"x24"x18"</p> <p style="padding-left: 20px;">Stool</p> <p style="padding-left: 20px;">File cabinet</p> <p style="padding-left: 20px;">Wastebasket</p> <p><u>ENVIRONMENTAL CONSIDERATIONS:</u></p> <ul style="list-style-type: none"> ▪ Wall minimum STC 50 ▪ Ceiling minimum CAC 35, NRC 0.70 ▪ Uniform lighting with 80% visual comfort probability level 	<p style="text-align: right;">Spec. <u>Ref.#</u></p> <p><u>FEATURES¹:</u></p> <p><u>Fixed Items:</u></p> <p>14' of base cabinets w/1 sink 123550</p> <p>4' of baby changing area 123550</p> <p style="padding-left: 40px;">w/3" high edges and pad</p> <p>10' of wall cabinets 123550</p> <p>Interior window 088000/081113</p> <p>20' of tack board 101100</p> <p>8' of chalk/marker board 101100</p> <p>Paper towel dispenser 102813</p> <p><u>Fire Suppression:</u></p> <p style="padding-left: 20px;">Fire suppression system 211000</p> <p><u>Plumbing:</u></p> <p style="padding-left: 20px;">Plumbing connections 221116/221119/224000</p> <p style="padding-left: 20px;">Baby washing sink 221116/221119/224000</p> <p><u>HVAC:</u></p> <p style="padding-left: 20px;">Supply/return air system Div. 23</p> <p style="padding-left: 20px;">Independent temperature control 230923</p> <p><u>Electrical:</u></p> <p style="padding-left: 20px;">Fluorescent lighting 265100</p> <p style="padding-left: 20px;">Illumination level: See Table 8600-4</p> <p style="padding-left: 20px;">Multilevel switching 262726</p> <p style="padding-left: 20px;">10 duplex receptacles 262726</p> <p style="padding-left: 20px;">Double duplex receptacle adjacent to each data and video port 262726</p> <p><u>Communications:</u></p> <p style="padding-left: 20px;">1 video port 271533/271543</p> <p style="padding-left: 20px;">1 voice port and phone 271513/273113</p> <p style="padding-left: 20px;">1 data port 271513</p> <p style="padding-left: 20px;">Clock 275313</p> <p style="padding-left: 20px;">Central sound system 275123</p> <p><u>Electronic Safety and Security:</u></p> <p style="padding-left: 20px;">Life safety devices per code 283111</p> <p><u>Miscellaneous:</u></p> <p style="padding-left: 20px;">N/A</p>
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NOTES:

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

**EARLY CHILDHOOD EDUCATION AND CARE
Kitchen/Break Room**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p>Program Type: 3</p> <p>Size Requirements: 350 SF</p> <p>Requirements:</p> <p><u>FINISHES:</u> Flooring: Vinyl composition tile, VET, sheet vinyl, or linoleum</p> <p>Base: Resilient</p> <p>Ceiling: Suspended acoustical</p> <p>Walls: Painted concrete masonry units</p> <p><u>LOOSE FURNISHINGS:</u> 2 Work tables Staff table and chairs Refrigerator/freezer Range and oven Microwave Dishwasher</p> <p><u>ENVIRONMENTAL CONSIDERATIONS:</u></p> <ul style="list-style-type: none"> ▪ Wall minimum STC 50 ▪ Ceiling minimum CAC 35, NRC 0.70 ▪ Uniform lighting with 80% visual comfort probability level 	<p align="right">Spec. <u>Ref.#</u></p> <p><u>FEATURES¹:</u> <u>Fixed Items:</u> 30' of base cabinets w/1 sink 123550 30' of tall storage cabinets 123550 9' of wall cabinets 123550 1 Coiling counter door 083300 4' of tack board 101100 Paper towel dispenser 102813</p> <p><u>Fire Suppression:</u> Fire suppression system 211000</p> <p><u>Plumbing:</u> Plumbing connections 221116/221119/224000</p> <p><u>HVAC:</u> Supply/return air system Div. 23 Independent temperature control 230923 Kitchen exhaust system Div. 23</p> <p><u>Electrical:</u> Fluorescent lighting 265100 Illumination level: See Table 8600-4 Single level switching 262726 4 duplex receptacles 262726</p> <p><u>Communications:</u> 1 voice port and phone 271513/273113 Central sound system 275123 Clock 275313</p> <p><u>Electronic Safety and Security:</u> Life safety devices per code 283111</p> <p><u>Miscellaneous:</u> N/A</p>
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NOTES:

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

**EARLY CHILDHOOD EDUCATION AND CARE
Work Room**

<p>Program Type: 3</p> <p>Size Requirements: 150 SF</p> <p>Requirements:</p> <p><u>FINISHES:</u> Flooring: Vinyl composition tile, VET, sheet vinyl, or linoleum Optional: carpet</p> <p>Base: Resilient</p> <p>Ceiling: Suspended acoustical</p> <p>Walls: Painted concrete masonry units</p> <p><u>LOOSE FURNISHINGS:</u> Wastebasket</p> <p><u>ENVIRONMENTAL CONSIDERATIONS:</u></p> <ul style="list-style-type: none"> ▪ Wall minimum STC 50 ▪ Ceiling minimum CAC 35, NRC 0.70 ▪ Uniform lighting with 80% visual comfort probability level 	<p style="text-align: right;">Spec. <u>Ref.#</u></p> <p><u>FEATURES¹:</u> <u>Fixed Items:</u></p> <table style="width: 100%;"> <tr><td>13' of base cabinets w/1 sink</td><td style="text-align: right;">123550</td></tr> <tr><td>12' of tall storage cabinets</td><td style="text-align: right;">123550</td></tr> <tr><td>10' of mail cubicles</td><td style="text-align: right;">123550</td></tr> <tr><td>10' of wall cabinets</td><td style="text-align: right;">123550</td></tr> <tr><td>10' of open base cabinets</td><td style="text-align: right;">123550</td></tr> <tr><td>Paper towel dispenser</td><td style="text-align: right;">102813</td></tr> </table> <p><u>Fire Suppression:</u> Fire suppression system 211000</p> <p><u>Plumbing:</u> Plumbing connections 221116/221119/224000</p> <p><u>HVAC:</u> Supply/return air system Div. 23 Independent temperature control 230923</p> <p><u>Electrical:</u> Fluorescent lighting 265100 Illumination level: See Table 8600-4 Single level switching 262726 4 duplex receptacles 262726</p> <p><u>Communications:</u> 1 voice port and phone 271513/273113 Central sound system 275123 Clock 275313</p> <p><u>Electronic Safety and Security:</u> Life safety devices per code 283111</p> <p><u>Miscellaneous:</u> N/A</p>	13' of base cabinets w/1 sink	123550	12' of tall storage cabinets	123550	10' of mail cubicles	123550	10' of wall cabinets	123550	10' of open base cabinets	123550	Paper towel dispenser	102813
13' of base cabinets w/1 sink	123550												
12' of tall storage cabinets	123550												
10' of mail cubicles	123550												
10' of wall cabinets	123550												
10' of open base cabinets	123550												
Paper towel dispenser	102813												

NOTES:

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

		Spec. Ref.#
Program Type:	3	
Size Requirements:	60 SF	
Requirements:		
<u>FINISHES:</u>	<u>Spec.</u> <u>Ref #</u>	
Flooring:		
Rubber, linoleum, VET, or sheet vinyl	096500	
Optional: ceramic mosaic tile, porcelain tile base, or resinous flooring	096516 093000 096723	
Base:		
Resilient	096500	
Optional ceramic mosaic tile base, porcelain tile base, or resinous flooring	093000 096723	
Ceiling:		
Suspended acoustical	095113	
Walls:		
Painted concrete masonry units	042000/ 099100	
<u>LOOSE FURNISHINGS:</u>		
Wastebasket		
<u>ENVIRONMENTAL CONSIDERATIONS:</u>		
▪ Wall minimum STC 48		
▪ Ceiling minimum CAC 35, NRC 0.70		
▪ Uniform lighting with 80% visual comfort probability level		
		<u>FEATURES¹:</u>
		<u>Fixed Items:</u>
		Paper towel dispenser 102813
		Soap dispenser 102813
		36" and 42" grab bars 102813
		24"x60" mirror 102813
		Toilet paper holder 102813
		Baby changing station 102813
		<u>Fire Suppression:</u>
		Fire suppression system 211000
		<u>Plumbing:</u>
		Toddler height sink
		Toddler height toilet
		Plumbing connections 221116/221119/224000
		<u>HVAC:</u>
		Exhaust air system Div. 23
		Supplemental heat as required Div. 23
		<u>Electrical:</u>
		Fluorescent lighting 265100
		Illumination level: See Table 8600-4
		Single level switching 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.

**EARLY CHILDHOOD EDUCATION AND CARE
Reception**

<p>Program Type: 3</p> <p>Size Requirements: 500 SF</p> <p>Requirements:</p> <p><u>FINISHES:</u> Flooring: Carpet 096816 Vinyl composition tile in vestibule 096500</p> <p>Base: Resilient 096500</p> <p>Ceiling: Suspended acoustical 095113</p> <p>Walls: Painted concrete masonry units 042000/099100</p> <p><u>LOOSE FURNISHINGS:</u> Visitor chairs End table</p> <p><u>ENVIRONMENTAL CONSIDERATIONS:</u></p> <ul style="list-style-type: none"> ▪ Wall minimum STC 48 ▪ Ceiling minimum CAC 35, NRC 0.70 ▪ Uniform lighting with 80% visual comfort probability level 	<p style="text-align: right;">Spec. Ref.#</p> <p><u>FEATURES¹:</u> <u>Fixed Items:</u> Interior windows 088000/081113 4' of tack board 101100 Literary display cabinet 123550 Doors with power assist 087100 Windows with integral blinds 085113</p> <p><u>Fire Suppression:</u> Fire suppression system 211000</p> <p><u>Plumbing:</u> N/A</p> <p><u>HVAC:</u> Supply/return air system Div. 23 Independent temperature control 230923</p> <p><u>Electrical:</u> Fluorescent lighting 265100 Illumination level: See Table 8600-4 Single level switching 262726 2 duplex receptacles 262726 Means of egress lighting per code 265100</p> <p><u>Communications:</u> Clock 275313 Central sound system 275123</p> <p><u>Electronic Safety and Security:</u> Life safety devices per code 283111</p> <p><u>Miscellaneous:</u> N/A</p>
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NOTES:

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

<u>PROGRAM DESCRIPTION:</u>	<u>FEATURES¹:</u>	Spec.
Specialized learning experiences that include theory, laboratory, and shop work as they relate to all phases of layout, composition, presswork, and binding, including flexography, lithography, photoengraving, and other techniques related to the printing industry. Emphasis is placed on camera and platework imposition, offset press makeup and operation, paper cutting, ink and color preparation, binding, and production by silk-screen process. Emphasis is placed on desktop publishing including digital image and electronic process procedures. Instruction leads to preparation for various types of employment, such as Compositor, Photographer, Platemaker, Cost Analyst, Expediter, Production Planner, and Computer Assisted Layout.	<u>Fixed Items:</u>	<u>Ref.#</u>
	16' of chalk/marker board 8' of tack board 30' of wall cabinets 30' of sink base cabinets w/2 sinks Pencil sharpener support Windows with integral blinds (2) Paper towel dispensers	101100 101100 123550 123550 062000 085113 102813
	<u>Fire Suppression:</u>	
	Fire suppression system	211000
	<u>Plumbing:</u>	
	Plumbing connections	221116/221119/224000
	<u>HVAC:</u>	
	Supply/return air system	Div. 23
	Independent temperature control	230923
	<u>Electrical:</u>	
	Fluorescent lighting	265100
	Illumination level: See Table 8600-4	
	Multilevel switching	262726
	20 duplex receptacles	262726
	Double duplex receptacle adjacent to	
	each data and video port	262726
	220 volt service	262726
	Overhead electrical drops for	
	printing equipment	
	Emergency shut-off for all equipment	
	Safety lights over plate making area	265100
	<u>Communications:</u>	
	1 video port and video display system	
		271533/271543/274119
	1 voice port and phone	271513/273113
	8 data ports	271513
	Clock	275313
	Central sound system	275123
	Sound reinforcement system	275127
	<u>Electronic Safety and Security:</u>	
	Life safety devices per code	283111
	<u>Miscellaneous:</u>	
	N/A	
Program Type:	3	
Size Requirements:	2,400 SF Lab	
Lab Requirements:		
	Spec.	
	<u>Ref #</u>	
<u>FINISHES:</u>		
Flooring:		
Vinyl composition tile, VET, sheet vinyl, or linoleum	096500 096516	
Base:		
Resilient	096500	
Ceiling:		
Suspended acoustical	095113	
Walls:		
Painted concrete masonry units	042000/ 099100	
<u>LOOSE FURNISHINGS:</u>		
(24) Student stools/chairs		
(6) Work tables		
Wastebasket		
Pencil sharpener		

NOTES:

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

<u>PROGRAM DESCRIPTION:</u>	Classroom and practical experiences concerned with the ground support of commercial aircraft (passenger and cargo). Experiences will includes passenger service, including baggage handling, ticket agent, aircraft preflight/post/flight service, and ground traffic control.	<u>FEATURES¹:</u>	Spec.
Program Type:	3	<u>Fixed Items:</u>	<u>Ref.#</u>
Size Requirements:	1,500 SF Lab	16' of chalk/marker board 101100 8' of tack board 101100 30' of wall cabinets 123550 30' of sink base cabinets w/2 sinks 123550 Pencil sharpener support 062000 Windows with integral blinds 085113 (2) Paper towel dispensers 102813 Projection screen 6'x8' 115213	
Lab Requirements:		<u>Fire Suppression:</u>	
		Fire suppression system 211000	
		<u>Plumbing:</u>	
		Plumbing connections 221116/221119/224000	
<u>FINISHES:</u>		<u>HVAC:</u>	
Flooring:		Supply/return air system Div. 23 Independent temperature control 230923	
Carpet	Spec. <u>Ref #</u>		
Option: vinyl composition tile, VET, sheet vinyl, or linoleum	096816 096500 096516	<u>Electrical:</u>	
Base:		Fluorescent lighting 265100 Illumination level: See Table 8600-4 Multilevel switching 262726 20 duplex receptacles 262726 Double duplex receptacle adjacent to each data and video port 262726	
Resilient	096500	<u>Communications:</u>	
Ceiling:		1 video port 271533/271543 1 voice port and phone 271513/273113 8 data ports 271513 Clock 275313 Central sound system 275123 Sound reinforcement system 275127 Overhead projector 274119	
Suspended acoustical	095113	<u>Electronic Safety and Security:</u>	
Walls:		Life safety devices per code 283111	
Painted concrete masonry units	042000/ 099100	<u>Miscellaneous:</u>	
		N/A	
<u>LOOSE FURNISHINGS:</u>			
(24) Student stools/chairs			
(12) 2-person work tables w/epoxy tops			
Wastebasket			
Pencil sharpener			

NOTES:

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

PROGRAM DESCRIPTION:		FEATURES¹:		Spec.
		Fixed Items:		Ref.#
Preparation for employment in service and management occupations in the areas of hospitality, lodging, and facility care. Includes instruction and experiences to develop competencies in hospitality management and services, lodging services, guest relations, hotel security, guest and room services, environmental services, meeting and banquet services, and laundry and linen services.		16' of chalk/marker board		101100
		8' of tack board		101100
		24' of wall cabinets		123550
		24' of sink base cabinets w/2 sinks		123550
		14' of reception counter		123550
		Pencil sharpener support		062000
		Windows with integral blinds		085113
		(2) Paper towel dispensers		102813
		(2) Garbage disposals		113100
		(2) Dishwashers		113100
		(2) Ovens		113100
		(2) Refrigerators		113100
		(2) Microwave ovens		113100
		(1) Washer and Dryer		113100
		Projection screen, 6'x8'		115213
		Fire Suppression:		
		Fire suppression system		211000
		Plumbing:		
		1 Utility sink		
		Plumbing connections		221116/221119/224000
		HVAC:		
		Supply/return air system		Div. 23
		Independent temperature control		230923
		Localized exhaust at laundry/ linen area and oven area		Div. 23
		Electrical:		
		Fluorescent lighting		265100
		Illumination level: See Table 8600-4		
		Multilevel switching		262726
		20 duplex receptacles		262726
		Double duplex receptacle adjacent to each data and video port		262726
		Communications:		
		1 video port		271533/271543
		1 voice port and phone		271513/273113
		1 data port near teacher workstation		271513
		8 data ports		271513
		Clock		275313
		Central sound system		275123
		Sound reinforcement system		275127
		Overhead projector		274119
		Electronic Safety and Security:		
		Life safety devices per code		283111
		Miscellaneous:		
		N/A		

NOTES:

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

HOTELS AND RESORTS
Banquet Room

CHAPTER 6: CAREER-TECHNICAL SCHOOL

Program Type: 3		FEATURES¹:	Spec.
Size Requirements: 800 SF		<u>Fixed Items:</u>	<u>Ref.#</u>
		8' of base cabinets	123550
Requirements:		<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>FINISHES:</u>	Spec.	<u>Plumbing:</u>	
Flooring:	<u>Ref #</u>	N/A	
Carpet	096816	<u>HVAC:</u>	
Option: vinyl composition tile, VET,	096500	Supply/return air system	Div. 23
sheet vinyl, or linoleum	096516	Independent temperature control	230923
Base:		<u>Electrical:</u>	
Resilient	096500	Fluorescent lighting	265100
Ceiling:		Illumination level: See Table 8600-4	
Suspended acoustical	095113	Single level switching	262726
Walls:		4 duplex receptacles	262726
Painted concrete masonry units	042000/ 099100	Double duplex receptacle adjacent to each data port	262726
<u>LOOSE FURNISHINGS:</u>		<u>Communications:</u>	
N/A		2 data ports	271513
		Central sound system	275123
		Clock	275313
<u>ENVIRONMENTAL CONSIDERATIONS:</u>		<u>Electronic Safety and Security:</u>	
▪ Wall minimum STC 50		Life safety devices per code	283111
▪ Ceiling minimum CAC 35, NRC 0.70		<u>Miscellaneous:</u>	
▪ Uniform lighting with 80% visual comfort probability level		N/A	

NOTES:

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

<u>PROGRAM DESCRIPTION:</u>	Organized subject matter and learning experiences related to performing activities that direct the flow of goods and their utilization from producer to consumer. These activities include the marketing functions of distribution, financing, information management, production, product/service planning, pricing, purchasing, risk management, and selling. Also included is a foundation in the areas of human resources, economics, business, and marketing and management concepts.	<u>FEATURES¹:</u>	Spec.
Program Type:	3	<u>Fixed Items:</u>	<u>Ref.#</u>
Size Requirements:	900 SF Lab	16' of chalk/marker board 101100 16' of tack board 101100 30' of wall cabinets 123550 30' of sink base cabinets w/1 sink 123550 Pencil sharpener support 062000 Windows with integral blinds 085113 Paper towel dispenser 102813 Projection screen, 6'x8' 115213	
Lab Requirements:		<u>Fire Suppression:</u>	
		Fire suppression system 211000	
		<u>Plumbing:</u>	
		Plumbing connections 221116/221119/224000	
		<u>HVAC:</u>	
		Supply/return air system Div. 23 Independent temperature control 230923	
<u>FINISHES:</u>	Spec.	<u>Electrical:</u>	
Flooring:	<u>Ref #</u>	Fluorescent lighting 265100 Illumination level: See Table 8600-4 Multilevel switching 262726 10 duplex receptacles (minimum) 262726 Double duplex receptacle adjacent to each data and video port 262726	
Carpet	096816	<u>Communications:</u>	
Optional: vinyl composition tile,	096500	T1 1 video port 271533/271543 T2 1 voice port and phone 271513/273113 T3 1 data port near teacher workstation 271513 T4 26 data ports 271513 Clock 275313 Central sound system 275123 Sound reinforcement system 275127 T5 Overhead projector 274119	
VET, sheet vinyl, or linoleum	096516	<u>Electronic Safety and Security:</u>	
Base:		Life safety devices per code 283111	
Resilient	096500	<u>Miscellaneous:</u>	
Ceiling:		N/A	
Suspended acoustical	095113		
Walls:			
Painted concrete masonry units	042000/ 099100		
<u>LOOSE FURNISHINGS:</u>			
(24) Computer workstation furniture & chairs			
(1) Teacher station & chair			
Wastebasket			
Pencil sharpener			

NOTES:

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

**SPORTS MARKETING
MARKETING MANAGEMENT AND RESEARCH
MARKETING TECHNOLOGY
CT-P3-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p>PROGRAM DESCRIPTION: <u>SP, MM&R:</u> Organized subject matter and learning experiences designed for the systematic study of the management function in relation to marketing policies, organization, personnel, and financing. This instructional program generally prepares individuals to plan, organize, direct, and control the functions and activities of marketing in a variety of business and marketing related settings. Includes instruction in human resource management, strategic planning, managing technology, staffing functions, financial functions, telecommunications, and supervisory functions. <u>MT:</u> Preparation for marketing careers focused on product/service planning, financing, promotion, distribution, information management, pricing, and selling.</p> <p>Program Type: 3 Size Requirements: 1,000 SF Lab – Sports Marketing 1,000 SF Lab – Marketing Technology 900 SF Lab – Marketing Management</p> <p>Lab Requirements:</p> <table border="0"> <tr> <td></td> <td style="text-align: right;">Spec.</td> </tr> <tr> <td><u>FINISHES:</u></td> <td style="text-align: right;"><u>Ref #</u></td> </tr> <tr> <td>Flooring:</td> <td></td> </tr> <tr> <td>Carpet</td> <td style="text-align: right;">096816</td> </tr> <tr> <td>Optional: vinyl composition tile, VET, sheet vinyl, or linoleum</td> <td style="text-align: right;">096500 096516</td> </tr> <tr> <td>Base:</td> <td></td> </tr> <tr> <td>Resilient</td> <td 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NOTES:

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

**SPORTS MARKETING
MARKETING MANAGEMENT AND RESEARCH
MARKETING TECHNOLOGY
Bookstore**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p>Program Type: 3</p> <p>Size Requirements: 800 SF</p> <p>Requirements:</p> <p><u>FINISHES:</u></p> <p>Flooring:</p> <p style="padding-left: 20px;">Carpet 096816</p> <p style="padding-left: 20px;">Optional: vinyl composition tile, 096500</p> <p style="padding-left: 40px;">VET, sheet vinyl, or linoleum 096516</p> <p>Base:</p> <p style="padding-left: 20px;">Resilient 096500</p> <p>Ceiling:</p> <p style="padding-left: 20px;">Suspended acoustical 095113</p> <p>Walls:</p> <p style="padding-left: 20px;">Painted concrete masonry units 042000/ 099100</p> <p><u>LOOSE FURNISHINGS:</u></p> <p style="padding-left: 20px;">Stool</p> <p style="padding-left: 20px;">Wastebasket</p> <p><u>ENVIRONMENTAL CONSIDERATIONS:</u></p> <ul style="list-style-type: none"> ▪ Wall minimum STC 48 ▪ Ceiling minimum CAC 35, NRC 0.70 ▪ Uniform lighting with 80% visual comfort probability level 	<p style="text-align: right;">Spec. Ref.#</p> <p><u>FEATURES¹:</u></p> <p><u>Fixed Items:</u></p> <p style="padding-left: 20px;">8' of plastic laminate counter 062000</p> <p style="padding-left: 20px;">75' of base cabinet 123550</p> <p style="padding-left: 20px;">75' of adjustable display wall system 060565</p> <p style="padding-left: 20px;">Interior window 088000/081113</p> <p><u>Fire Suppression:</u></p> <p style="padding-left: 20px;">Fire suppression system 211000</p> <p><u>Plumbing:</u></p> <p style="padding-left: 20px;">N/A</p> <p><u>HVAC:</u></p> <p style="padding-left: 20px;">Supply/return air system Div. 23</p> <p style="padding-left: 20px;">Independent temperature control 230923</p> <p><u>Electrical:</u></p> <p style="padding-left: 20px;">Fluorescent lighting 265100</p> <p style="padding-left: 40px;">Illumination level: See Table 8600-4</p> <p style="padding-left: 20px;">Incandescent track lighting 265100</p> <p style="padding-left: 20px;">Multilevel switching 262726</p> <p style="padding-left: 20px;">6 duplex receptacles (minimum) 262726</p> <p style="padding-left: 20px;">Double duplex receptacle adjacent to each data port 262726</p> <p><u>Communications:</u></p> <p style="padding-left: 20px;">2 data ports 271513</p> <p style="padding-left: 20px;">Clock 275313</p> <p style="padding-left: 20px;">Central sound system 275123</p> <p><u>Electronic Safety and Security:</u></p> <p style="padding-left: 20px;">Life safety devices per code 283111</p> <p><u>Miscellaneous:</u></p> <p style="padding-left: 20px;">N/A</p>
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NOTES:

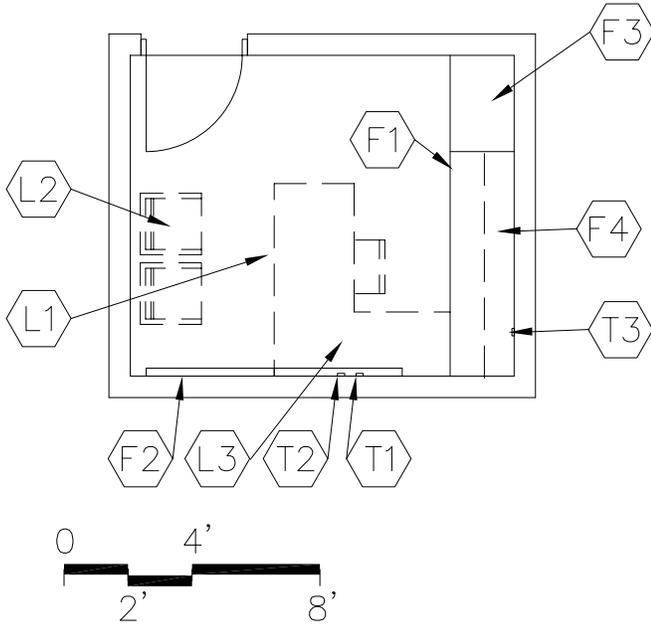
1. Finishes/Features: Refer to Chapter 9 for specification references.

**SPORTS MARKETING
MARKETING MANAGEMENT AND RESEARCH
MARKETING TECHNOLOGY
Display**

<p>Program Type: 3</p> <p>Size Requirements: 100 SF</p> <p>Requirements:</p> <p><u>FINISHES:</u> Flooring: Vinyl composition tile</p> <p>Base: Resilient</p> <p>Ceiling: Suspended acoustical</p> <p>Walls: Painted concrete masonry units</p> <p><u>LOOSE FURNISHINGS:</u> N/A</p> <p><u>ENVIRONMENTAL CONSIDERATIONS:</u></p> <ul style="list-style-type: none"> ▪ Wall minimum STC 45 ▪ Ceiling minimum CAC 35, NRC 0.70 ▪ Uniform lighting with 80% visual comfort probability level 	<p style="text-align: right;">Spec. Ref.#</p> <p><u>FEATURES</u>¹:</p> <p><u>Fixed Items:</u> 10' of adjustable shelving 062000 Interior window 088000/081113</p> <p><u>Fire Suppression:</u> Fire suppression system 211000</p> <p><u>Plumbing:</u> N/A</p> <p><u>HVAC:</u> Supply/return air system Div. 23 Independent temperature control 230923</p> <p><u>Electrical:</u> Fluorescent lighting 265100 Illumination level: See Table 8600-4 Single level switching 262726 Incandescent track lighting 265100 Track lighting 265100 4 duplex receptacles 262726 Double duplex receptacle adjacent to data port 262726</p> <p><u>Communications:</u> 1 data port 271523 Central sound system 275123</p> <p><u>Electronic Safety and Security:</u> Life safety devices per code 283111</p> <p><u>Miscellaneous:</u> N/A</p>
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NOTES:

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



PROGRAM ACTIVITIES:

- Private space for program instructor
- One-on-one conferences with academic instructors, students, etc.

SPATIAL RELATIONSHIPS:

- Near related lab
- Direct access to school circulation areas

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY: 1 - 3 persons
SIZE: 120 SF

NOTES:

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

**OFFICE
CT-P3-2**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Carpet <i>or carpet tile</i>	096816 096813	F1 Work surface with file drawers	123550
		F2 4' of tack board	101100
		or tackable wall surface	
Base:		F3 2' of tall wardrobe	123550
Resilient base	096500	F4 Wall cabinets above work surface	123550
Ceiling:		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
Walls:		<u>Plumbing:</u>	
Painted gypsum wallboard over metal studs	092116/099100	N/A	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Desk and chair		Supply/return air system	Div. 23
L2 Visitor chairs		Independent temperature control	230923
L3 Computer desk return Wastebasket		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to data and video port	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/273113
		T2 1 data port near workstation	271523
		T3 1 video port	271533/271543
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

PROGRAM ACTIVITIES:

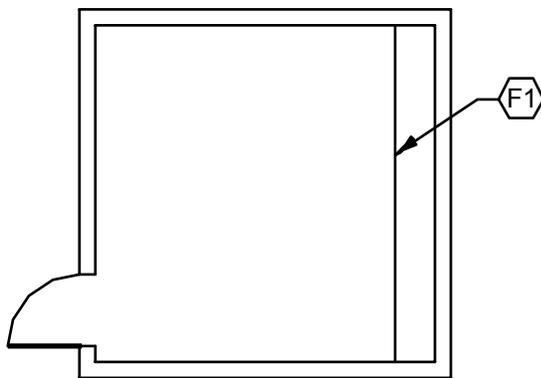
- Space for storage of lab equipment

SPATIAL RELATIONSHIPS:

- Near related lab

ENVIRONMENTAL CONSIDERATIONS:

N/A



CAPACITY:
SIZE:

N/A
200 SF

NOTES:

**STORAGE AREA
CT-P3-3**

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<u>Fixed Items¹:</u>	
Sealed concrete	033000	F1 8'-20' of open shelving	
		Depth may vary (fixed or loose)	123550
Base:		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Exposed structure	---	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>	
N/A		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		Duplex receptacles	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

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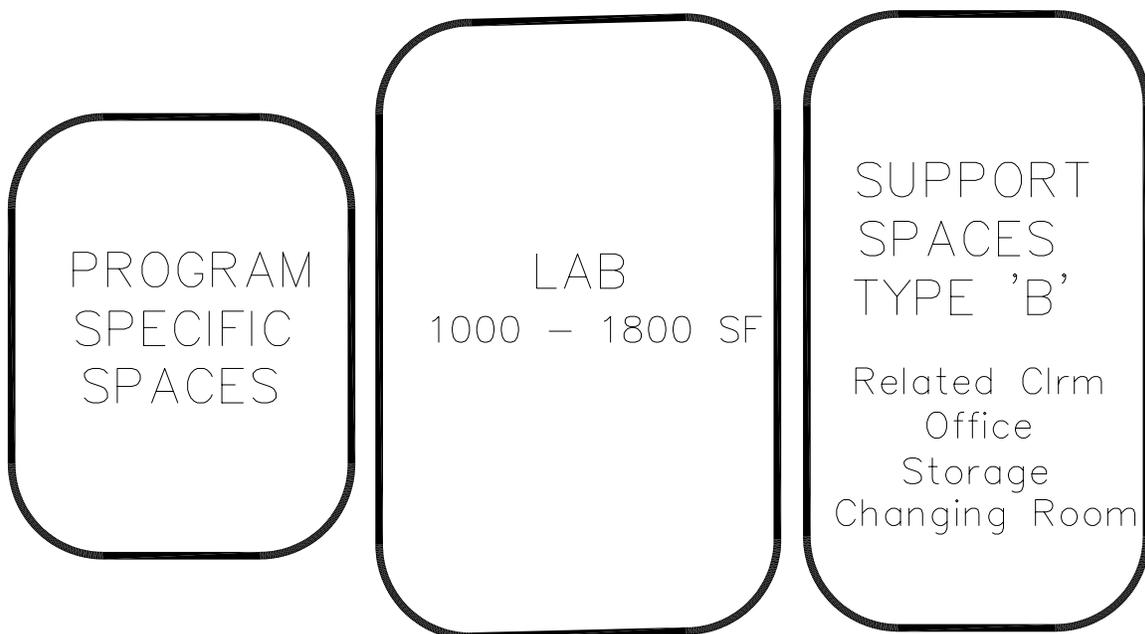
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Program Type 4

Description: Small to medium sized lab space with typical support space. Additionally, this program requires specialized auxiliary spaces. This program is to utilize standard construction and be one-story (12' +/-) tall. Lab, support, and specialized space to have finished floor, painted walls, and suspended acoustical ceiling.

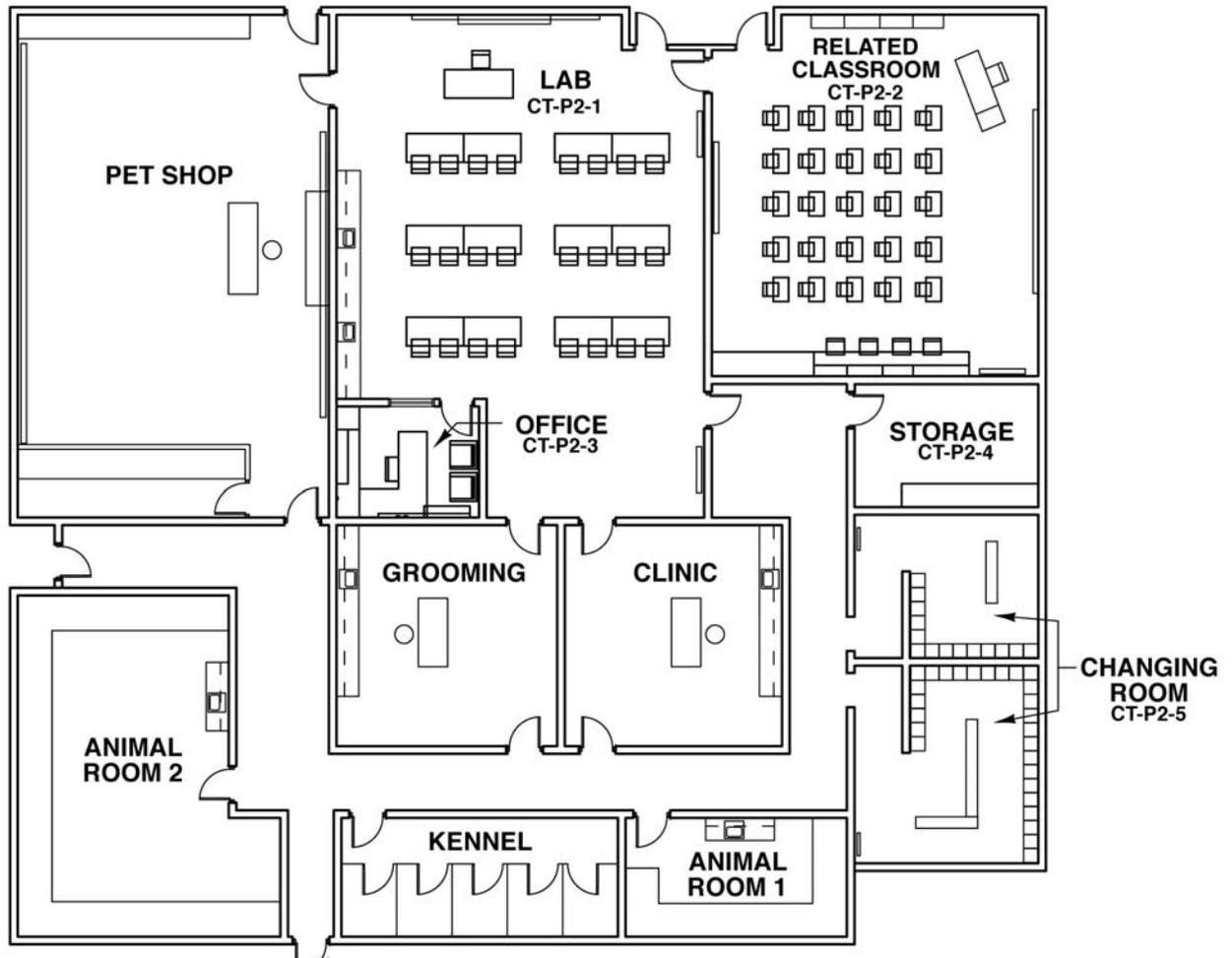


NOTES:

This is an example of how the Program Type 4 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 Program Type 4 space plates:

- CT-P4-1 Lab
- CT-P4-2 Related Classroom
- CT-P4-3 Office
- CT-P4-4 Storage
- CT-P4-5 Changing Room

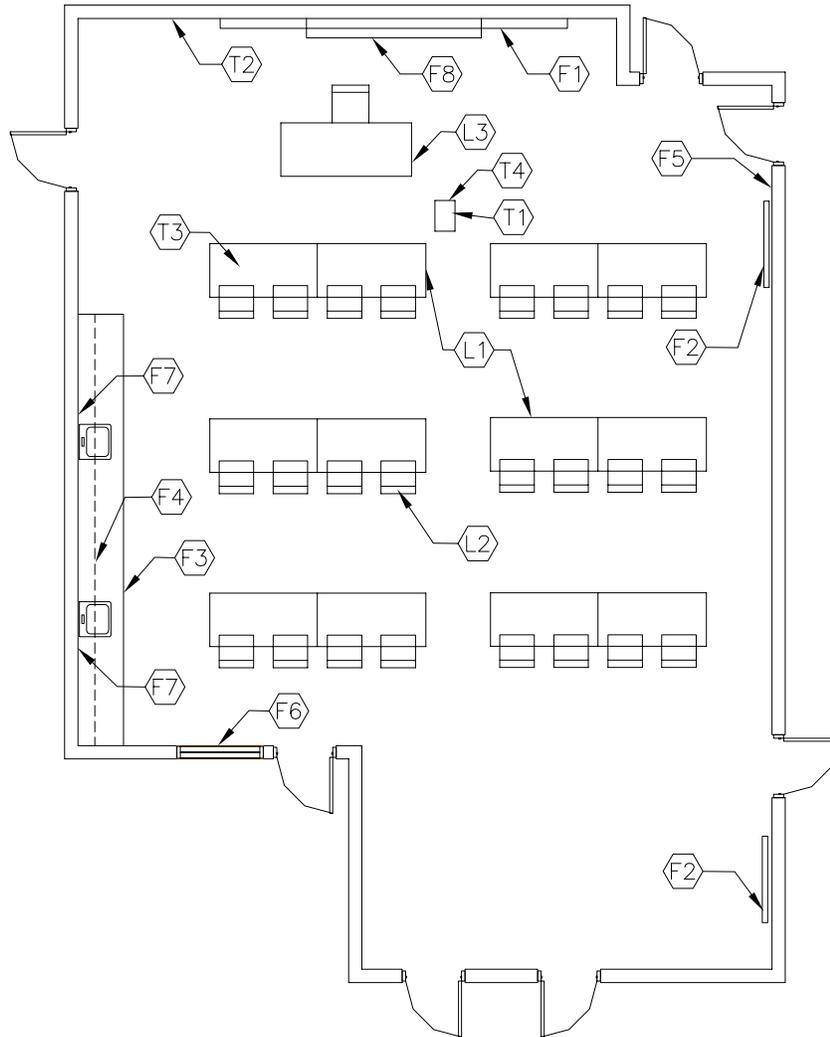


Program Type 4: Animal Science and Management (small animal)

This is an example to show the possible relationships of spaces for this program type.

NOTES:

1. See lab descriptions within this section for specific lab requirements.
2. See individual space plates at the end of this section for specific requirements.



CAPACITY:	24 Students
SIZE:	1,000 – 1,800 SF
	(see lab summaries for exact sizes)
ANCILLARY SPACES:	CT-P4-2 thru CT-P4-5

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.
2. Graphic plate is an example only. Other labs within this program are not drawn – refer to lab summaries within this program type for information on a particular lab.

PROGRAM ACTIVITIES:

- Large and small group instruction
- Group and individual work
- Demonstrations

SPATIAL RELATIONSHIPS:

- Near other related labs
- Adjacent to typical support spaces
- Proximity to large group restrooms
- Located away from noisy or public activities
- Proximity to core academic area and common use areas
- Flexibility of space

ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting with 80% visual comfort probability level.
- Optional: Natural light opening equal to 5% minimum of floor area, with an operable vent
- Environmental sound control -
 walls minimum STC 50
 ceiling minimum CAC 35, NRC **0.70**
- Flexibility of space

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Loose Furnishings: Refer to Lab Profiles within this section.
3. Loose Furnishings, fixed equipment, utility locations, and general footprint of room shown represent one of many possible arrangements.

ANIMAL SCIENCE AND MANAGEMENT (small animal)

CHAPTER 6: CAREER-TECHNICAL SCHOOL

CT-P4-1

<p><u>PROGRAM DESCRIPTION:</u> Programs provide instruction in the principles and practices of producing, caring for, and marketing domesticated non-food animals. Examples of careers for students completing this program include veterinary technicians, zoo keepers, kennel managers, grooming specialists, pet sales associates, horse trainers, and animal laboratory technicians. Animal Science and Management can also serve as a foundation program for careers requiring post-secondary education.</p>		<p><u>FEATURES^{1:}</u> <u>Fixed Items:</u></p>	<p>Spec. <u>Ref.#</u></p>
	<p>Program Type: 4</p> <p>Size Requirements: 1,000 SF Lab</p> <p>Lab Requirements:</p>		<p>F1 16' of chalk/marker board 101100 F2 8' of tack board 101100 F3 20' of sink base cabinets w/2 sinks 123550 F4 20' of wall cabinets 123550 F5 Pencil sharpener support 062000 F6 Windows with integral blinds 085113 F7 (2) Paper towel dispenser 102813 F8 Projection screen, 6'x8' 115213</p> <p><u>Fire Suppression:</u> Fire suppression system 211000</p> <p><u>Plumbing:</u> Plumbing connections 221116/221119/224000 Handwashing lavatory 224000</p> <p><u>HVAC:</u> Supply/return air system Div. 23 Independent temperature control 230923</p> <p><u>Electrical:</u> Fluorescent lighting 265100 Illumination level: See Table 8600-4 Multilevel switching 262726 10 duplex receptacles 262726 Double duplex receptacle adjacent to each data and video port 262726</p> <p><u>Communications:</u> T1 1 video port 271533/271543 T2 1 voice port and phone 271513/273113 1 data port near teacher workstation 271513 T3 8 data ports 271513 Clock 275313 Central sound system 275123 Sound reinforcement system 275127 T4 Overhead projector 274119</p> <p><u>Electronic Safety and Security:</u> Life safety devices per code 283111</p> <p><u>Miscellaneous:</u> N/A</p>
<p><u>FINISHES:</u></p> <p>Flooring:</p> <p>Vinyl composition tile, 096500 VET, sheet vinyl, or linoleum 096516</p> <p>Base:</p> <p>Resilient 096500</p> <p>Ceiling:</p> <p>Suspended acoustical 095113</p> <p>Walls:</p> <p>Painted concrete masonry units 042000/ 099100</p>	<p>Spec. <u>Ref #</u></p>	<p><u>LOOSE FURNISHINGS:</u> L1 (12) Two-person work tables L2 (24) Student chairs/stools L3 (1) Teacher station & chair Wastebasket Pencil sharpener</p>	
		<p><u>SITE FEATURE:</u> Plan for a dog kennel if required by school curriculum requirements.</p>	

NOTES:

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

**ANIMAL SCIENCE AND MANAGEMENT (small animal)
Pet Shop**

<p>Program Type: 4</p> <p>Size Requirements: 1,200 SF</p> <p>Requirements:</p> <p><u>FINISHES:</u> Spec. Ref # Flooring: Vinyl composition tile, 096500 VET, sheet vinyl, or linoleum 096516</p> <p>Base: Resilient 096500</p> <p>Ceiling: Suspended acoustical 095113</p> <p>Walls: Painted concrete masonry units 042000/ 099100</p> <p><u>LOOSE FURNISHINGS:</u> Stool Wastebasket</p> <p><u>ENVIRONMENTAL CONSIDERATIONS:</u></p> <ul style="list-style-type: none"> ▪ Wall minimum STC 50 ▪ Ceiling minimum CAC 35, NRC 0.70 ▪ Uniform lighting with 80% visual comfort probability level 	<p style="text-align: right;">Spec. Ref.#</p> <p><u>FEATURES¹:</u> <u>Fixed Items:</u> 8' of counter 123550 30' of base cabinets 123550 60' of adjustable wall display system 060565 Glass enclosed animal display wall 084113</p> <p><u>Fire Suppression:</u> Fire suppression system 211000</p> <p><u>Plumbing:</u> Plumbing connections 221116/221119/224000 Handwashing lavatory 224000</p> <p><u>HVAC:</u> Supply/return air system Div. 23 Independent temperature control 230923 Independent ventilation Div. 23</p> <p><u>Electrical:</u> Fluorescent lighting 265100 Illumination level: See Table 8600-4 Multilevel switching 262726 Incandescent track lighting 265100 9 duplex receptacles 262726 Double duplex receptacle adjacent to each data port 262726</p> <p><u>Communications:</u> 1 voice port and phone 271513/273113 2 data ports 271513 Clock 275313 Central sound system 275123</p> <p><u>Electronic Safety and Security:</u> Life safety devices per code 283111</p> <p><u>Miscellaneous:</u> N/A</p>
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NOTES:

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

ANIMAL SCIENCE AND MANAGEMENT (small animal)

CHAPTER 6: CAREER-TECHNICAL SCHOOL

Clinic

Program Type: 4		FEATURES¹:	
		Fixed Items:	Spec. Ref.#
Size Requirements: 350 SF		15' of base cabinets w/1 sink	123550
		15' of wall cabinets	123550
Requirements:		6' examination island	123550
		Paper towel dispenser	102813
	Spec. Ref #	Fire Suppression:	
FINISHES:		Fire suppression system	211000
Flooring:		Plumbing:	
Vinyl composition tile,	096500	Plumbing connections	
VET, sheet vinyl, or linoleum	096516		221116/221119/224000
Base:		HVAC:	
Resilient	096500	Supply/return air system	Div. 23
Ceiling:		Independent temperature control	230923
Suspended acoustical	095113	Independent ventilation	Div. 23
Walls:		Electrical:	
Painted concrete masonry units	042000/ 099100	Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
LOOSE FURNISHINGS:		Single level switching	262726
Stool		4 duplex receptacles	262726
Wastebasket		Double duplex receptacle adjacent to each data port	262726
ENVIRONMENTAL CONSIDERATIONS:		Communications:	
▪ Wall minimum STC 50		2 data ports	271513
▪ Ceiling minimum CAC 35, NRC 0.70		Clock	275313
▪ Uniform lighting with 80% visual comfort probability level		Central sound system	275123
		Electronic Safety and Security:	
		Life safety devices per code	283111
		Miscellaneous:	
		N/A	

NOTES:

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

ANIMAL SCIENCE AND MANAGEMENT (small animal)
Grooming

<p>Program Type: 4</p> <p>Size Requirements: 350 SF</p> <p>Requirements:</p> <p><u>FINISHES:</u> Flooring: Vinyl composition tile, VET, sheet vinyl, or linoleum</p> <p>Base: Resilient</p> <p>Ceiling: Suspended acoustical</p> <p>Walls: Painted concrete masonry units</p> <p><u>LOOSE FURNISHINGS:</u> Stool Wastebasket</p> <p><u>ENVIRONMENTAL CONSIDERATIONS:</u></p> <ul style="list-style-type: none"> ▪ Wall minimum STC 50 ▪ Ceiling minimum CAC 35, NRC 0.70 ▪ Uniform lighting with 80% visual comfort probability level 	<p style="text-align: right;">Spec. Ref.#</p> <p><u>FEATURES¹:</u> <u>Fixed Items:</u> 15' of base cabinets w/1 sink 123550 15' of wall cabinets 123550 6' grooming island 123550 Paper towel dispenser 102813</p> <p><u>Fire Suppression:</u> Fire suppression system 211000</p> <p><u>Plumbing:</u> Plumbing connections 221116/221119/224000</p> <p><u>HVAC:</u> Supply/return air system Div. 23 Independent temperature control 230923 Independent ventilation Div. 23</p> <p><u>Electrical:</u> Fluorescent lighting 265100 Illumination level: See Table 8600-4 Single level switching 262726 4 duplex receptacles 262726 Double duplex receptacle adjacent to each data port 262726</p> <p><u>Communications:</u> 2 data ports 271513 Clock 275313 Central sound system 275123</p> <p><u>Electronic Safety and Security:</u> Life safety devices per code 283111</p> <p><u>Miscellaneous:</u> N/A</p>
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NOTES:

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

ANIMAL SCIENCE AND MANAGEMENT (small animal)

CHAPTER 6: CAREER-TECHNICAL SCHOOL

Animal Room #1

<p>Program Type: 4</p> <p>Size Requirements: 200 SF</p> <p>Requirements:</p> <p><u>FINISHES:</u> Flooring: Vinyl composition tile, VET, sheet vinyl, or linoleum</p> <p>Base: Resilient</p> <p>Ceiling: Suspended acoustical</p> <p>Walls: Painted concrete masonry units</p> <p><u>LOOSE FURNISHINGS:</u> Wastebasket</p> <p><u>ENVIRONMENTAL CONSIDERATIONS:</u></p> <ul style="list-style-type: none"> ▪ Wall minimum STC 50 ▪ Ceiling minimum CAC 35, NRC 0.70 ▪ Uniform lighting with 80% visual comfort probability level 	<p align="right">Spec. Ref.#</p> <p><u>FEATURES¹:</u> <u>Fixed Items:</u> 6' of base cabinets w/1 sink 123550 6' of wall cabinets 123550 20' of animal cage shelving 062000 Paper towel dispenser 102813</p> <p><u>Fire Suppression:</u> Fire suppression system 211000</p> <p><u>Plumbing:</u> Plumbing connections 221116/221119/224000 Handwashing lavatory 224000</p> <p><u>HVAC:</u> Supply/return air system Div. 23 Independent ventilation Div. 23</p> <p><u>Electrical:</u> Fluorescent lighting 265100 Illumination level: See Table 8600-4 Single level switching 262726 4 duplex receptacles 262726</p> <p><u>Communications:</u> Central sound system 275123</p> <p><u>Electronic Safety and Security:</u> Life safety devices per code 283111</p> <p><u>Miscellaneous:</u> N/A</p>
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NOTES:

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

ANIMAL SCIENCE AND MANAGEMENT (small animal)
Animal Room #2

<p>Program Type: 4</p> <p>Size Requirements: 600 SF</p> <p>Requirements:</p> <p><u>FINISHES:</u> Flooring: Vinyl composition tile, VET, sheet vinyl, or linoleum</p> <p>Base: Resilient</p> <p>Ceiling: Suspended acoustical</p> <p>Walls: Painted concrete masonry units</p> <p><u>LOOSE FURNISHINGS:</u> Stool Wastebasket</p> <p><u>ENVIRONMENTAL CONSIDERATIONS:</u></p> <ul style="list-style-type: none"> ▪ Wall minimum STC 50 ▪ Ceiling minimum CAC 35, NRC 0.70 ▪ Uniform lighting with 80% visual comfort probability level 	<p style="text-align: right;">Spec. Ref.#</p> <p><u>FEATURES¹:</u> <u>Fixed Items:</u> 6' of base cabinets w/1 sink 6' of wall cabinets 50' of animal cage shelving Paper towel dispenser</p> <p><u>Fire Suppression:</u> Fire suppression system</p> <p><u>Plumbing:</u> Plumbing connections Handwashing lavatory</p> <p><u>HVAC:</u> Supply/return air system Independent ventilation</p> <p><u>Electrical:</u> Fluorescent lighting Illumination level: See Table 8600-4 Single level switching 4 duplex receptacles</p> <p><u>Communications:</u> Central sound system</p> <p><u>Electronic Safety and Security:</u> Life safety devices per code</p> <p><u>Miscellaneous:</u> N/A</p>
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NOTES:

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

**COSMETOLOGY
CT-P4-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>PROGRAM DESCRIPTION:</u>	Classroom and practical learning experiences that are concerned with a variety of beauty treatments, including the care and beautification of hair, complexion, and hands. Instruction includes shampoos, rinses, and scalp treatments; hair styling, setting, cutting, dyeing, tinting, and bleaching; permanent waving; facials; manicuring; and hand and arm massaging. Bacteriology, anatomy, hygiene, sanitation, salon management (including keeping records), and customer relations are emphasized. Instruction is designed to qualify completers for licensing examination.	<u>FEATURES¹:</u>	Spec.
Program Type:	4	<u>Fixed Items:</u>	<u>Ref.#</u>
Size Requirements:	1,600 SF Lab	8' of tack board 101100 12' of base cabinets 123550 12' of wall cabinets 123550 16' of reception counter 123550 8' of adjustable display shelving 062000 Pencil sharpener support 062000 Windows with integral blinds 085113 (24) Student hair stations 123550 (base cabinet, countertop, mirror, styling chair)	
Lab Requirements:		<u>Fire Suppression:</u>	
		Fire suppression system 211000	
		<u>Plumbing:</u>	
		6 Hair washing sinks 224000 Plumbing connections 221116/221119/224000	
		<u>HVAC:</u>	
		Supply/return air system Div. 23	
		Independent temperature control 230923	
		Specialized ventilation for pedicure odors Div. 23	
<u>FINISHES:</u>	Spec.	<u>Electrical:</u>	
Flooring:	<u>Ref #</u>	Fluorescent lighting 265100	
Vinyl composition tile, VET, sheet vinyl, or linoleum	096500	Illumination level: See Table 8600-4	
	096516	Multilevel switching 262726	
Base:		40 duplex receptacles (minimum) 262726	
Resilient	096500	Double duplex receptacle adjacent to each data and video port 262726	
Ceiling:		<u>Communications:</u>	
Suspended acoustical	095113	1 video port and video display device 271533/271543/274119	
Walls:		1 voice port and phone 271513/273113	
Painted concrete masonry units	042000/ 099100	8 data ports 271513	
		Clock 275313	
		Central sound system 275123	
		Sound reinforcement system 275127	
<u>LOOSE FURNISHINGS:</u>		<u>Electronic Safety and Security:</u>	
Portable demonstration table (8'x8')		Life safety devices per code 283111	
Coat rack		<u>Miscellaneous:</u>	
Wastebasket		N/A	
Pencil sharpener			

NOTES:

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

Program Type: 4		FEATURES¹:	Spec.
Size Requirements: 175 SF		Fixed Items:	Ref.#
		27' of adjustable shelving	062000
Requirements:		Fire Suppression:	
		Fire suppression system	211000
	Spec.		
FINISHES:	Ref #	Plumbing:	
Flooring:		N/A	
Vinyl composition tile,	096500	HVAC:	
VET, sheet vinyl, or linoleum	096516	Supply/return air system	Div. 23
Base:		Independent ventilation	Div. 23
Resilient	096500		
Ceiling:		Electrical:	
Suspended acoustical	095113	Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
Walls:		Single level switching	262726
Painted concrete masonry units	042000/	4 duplex receptacles	262726
	099100	Communications:	
		Clock	275313
		Central sound system	275123
LOOSE FURNISHINGS:		Electronic Safety and Security:	
Wastebasket		Life safety devices per code	283111
		Miscellaneous:	
		N/A	
ENVIRONMENTAL CONSIDERATIONS:			
▪ Wall minimum STC 45			
▪ Ceiling minimum CAC 35, NRC 0.70			
▪ Uniform lighting with 80% visual comfort probability level			

NOTES:

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

		Spec. Ref.#
Program Type:	4	
Size Requirements:	200 SF	
Requirements:		
<u>FINISHES:</u>		
Flooring:		
Vinyl composition tile,	096500	
VET, sheet vinyl, or linoleum	096516	
Base:		
Resilient	096500	
Ceiling:		
Suspended acoustical	095113	
Walls:		
Painted concrete masonry units	042000/ 099100	
<u>LOOSE FURNISHINGS:</u>		
Wastebasket		
<u>ENVIRONMENTAL CONSIDERATIONS:</u>		
▪ Wall minimum STC 40		
▪ Ceiling minimum CAC 35, NRC 0.70		
▪ Uniform lighting with 80% visual comfort probability level		
		<u>FEATURES¹:</u>
		<u>Fixed Items:</u>
		4' of base cabinets w/1 sink 123550
		Paper towel dispenser 102813
		<u>Fire Suppression:</u>
		Fire suppression system 211000
		<u>Plumbing:</u>
		Plumbing connections 221116/221119/224000
		<u>HVAC:</u>
		Supply/return air system Div. 23
		Independent ventilation Div. 23
		Independent temperature control 230923
		<u>Electrical:</u>
		Fluorescent lighting 265100
		Illumination level: See Table 8600-4
		Single level switching 262726
		4 duplex receptacles 262726
		<u>Communications:</u>
		Clock 275313
		Central sound system 275123
		<u>Electronic Safety and Security:</u>
		Life safety devices per code 283111
		<u>Miscellaneous:</u>
		N/A

NOTES:

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

**COSMETOLOGY
Manicure Room**

Program Type: 4		FEATURES¹:	Spec.
Size Requirements: 200 SF		Fixed Items:	Ref.#
		4' of base cabinets w/1 sink	123550
		Paper towel dispenser	102813
Requirements:		Fire Suppression:	
	Spec.	Fire suppression system	211000
	Ref #		
FINISHES:		Plumbing:	
Flooring:		Plumbing connections	221116/221119/224000
Vinyl composition tile,	096500		
VET, sheet vinyl, or linoleum	096516		
Base:		HVAC:	
Resilient	096500	Supply/return air system	Div. 23
		Independent ventilation	Div. 23
Ceiling:		Independent temperature control	230923
Suspended acoustical	095113		
Walls:		Electrical:	
Painted concrete masonry units	042000/ 099100	Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		Single level switching	262726
		4 duplex receptacles	262726
LOOSE FURNISHINGS:		Communications:	
Wastebasket		Clock	275313
		Central sound system	275123
ENVIRONMENTAL CONSIDERATIONS:		Electronic Safety and Security:	
▪ Wall minimum STC 45		Life safety devices per code	283111
▪ Ceiling minimum CAC 35, NRC 0.70			
▪ Uniform lighting with 80% visual comfort probability level		Miscellaneous:	
		N/A	

NOTES:

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

Program Type: 4		FEATURES¹:	Spec.
Size Requirements: 60 SF		Fixed Items:	Ref.#
Requirements:		Paper towel dispenser	102813
		Soap dispenser	102813
		36" and 42" grab bars	102813
		24"x60" mirror	102813
		Toilet paper holder	102813
FINISHES:	Spec.	Fire Suppression:	
Flooring:	Ref #	Fire suppression system	211000
Rubber, linoleum, VET, or	096500	Plumbing:	
sheet vinyl	096516	Wall mounted water closet	
Option: ceramic mosaic tile,	093000	Wall mounted lavatory	
porcelain tile base, or	096723	Plumbing connections	221116/221119/224000
resinous flooring			
Base:		HVAC:	
Resilient	096500	Exhaust air system	Div. 23
Option: ceramic mosaic tile base,	093000	Supplemental heat as required	Div. 23
porcelain tile base, or	096723		
resinous flooring		Electrical:	
Ceiling:		Fluorescent lighting	265100
Suspended acoustical	095113	Illumination level: See Table 8600-4	
Walls:		Single level switching	262726
Painted concrete masonry units	042000/	2 duplex receptacles	262726
	099100		
LOOSE FURNISHINGS:		Communications:	
Wastebasket		Central sound system	275123
		Electronic Safety and Security:	
		Life safety devices per code	283111
ENVIRONMENTAL CONSIDERATIONS:		Miscellaneous:	
▪ Wall minimum STC 48		N/A	
▪ Ceiling minimum CAC 35, NRC 0.40			
▪ Uniform lighting with 80% visual comfort probability level			

NOTES:

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

**CRIMINAL JUSTICE
CT-P4-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>PROGRAM DESCRIPTION:</u>	Specialized classroom and practical learning experiences that are designed to supplement the training provided by officially designated law enforcement agencies. Instruction includes acquiring and maintaining the uniform; patrolling on foot or in an automobile during the day or night; dealing with misdemeanors, felonies, traffic violations, and accidents; making arrests; testifying in court; legal aspects; defensive tactics; private security; occupational and health safety; and civil emergencies.	<u>FEATURES¹:</u>	Spec.
Program Type:	4	<u>Fixed Items:</u>	<u>Ref.#</u>
Size Requirements:	1,200 SF Lab	16' of chalk/marker board 101100 16' of tack board 101100 30' of sink base cabinets w/1 sink 123550 30' of wall cabinets 123550 Pencil sharpener support 062000 Windows with integral blinds 085113 Paper towel dispenser 102813 Projection screen, 6'x8' 115213	
Lab Requirements:		<u>Fire Suppression:</u>	
<u>FINISHES:</u>		Fire suppression system 211000	
Flooring:		<u>Plumbing:</u>	
Carpet	Spec.	Plumbing connections 221116/221119/224000	
Option: Vinyl composition tile,	<u>Ref #</u>	<u>HVAC:</u>	
VET, sheet vinyl, or linoleum	096816	Supply/return air system Div. 23	
	096500	Independent temperature control 230923	
	096516	<u>Electrical:</u>	
Base:		Fluorescent lighting 265100	
Resilient	096500	Illumination level: See Table 8600-4	
Ceiling:		Multilevel switching 262726	
Suspended acoustical	095113	20 duplex receptacles (minimum) 262726	
Walls:		Double duplex receptacle adjacent to	
Painted concrete masonry units	042000/	each data and video port 262726	
	099100	<u>Communications:</u>	
<u>LOOSE FURNISHINGS:</u>		1 video port 271533/271543	
(12) Two-person work tables		1 voice port and phone 271513/273113	
(24) Student chairs/stools		1 data port near teacher workstation 271513	
(1) Teacher station & chair		8 data ports 271513	
Wastebasket		Clock 275313	
Pencil sharpener		Central sound system 275123	
		Sound reinforcement system 275127	
		Overhead projector 274119	
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code 283111	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

Program Type: 4		FEATURES¹:	Spec.
Size Requirements: 800 SF		Fixed Items:	<u>Ref.#</u>
		N/A	
Requirements:		<u>Fire Suppression:</u>	
		Fire <i>suppression</i> system	211000
	Spec.		
<u>FINISHES:</u>	<u>Ref #</u>	<u>Plumbing:</u>	
Flooring:		N/A	
Vinyl composition tile,	096500	<u>HVAC:</u>	
VET, sheet vinyl, or linoleum	096516	Supply/return air system	Div. 23
Option: sealed concrete	033000	Independent temperature control	230923
Base:		<u>Electrical:</u>	
Resilient	096500	Fluorescent lighting	265100
Ceiling:		Illumination level: See Table 8600-4	
Suspended acoustical	095113	Single level switching	262726
Walls:		4 duplex receptacles	262726
Painted concrete masonry units	042000/ 099100	<u>Communications:</u>	
		Clock	275313
		Central sound system	275123
<u>LOOSE FURNISHINGS:</u>		<u>Electronic Safety and Security:</u>	
N/A		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	
<u>ENVIRONMENTAL CONSIDERATIONS:</u>			
▪ Wall minimum STC 48			
▪ Ceiling minimum CAC 35, NRC 0.70			
▪ Uniform lighting with 80% visual comfort probability level			

NOTES:

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

**CRIMINAL JUSTICE
Interrogation Room**

Program Type: 4	<u>Spec. Ref #</u>	<u>FEATURES¹:</u>	<u>Spec. Ref.#</u>
Size Requirements: 150 SF		<u>Fixed Items:</u>	
		N/A	
Requirements:		<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>FINISHES:</u>		<u>Plumbing:</u>	
Flooring:		N/A	
Vinyl composition tile, VET, sheet vinyl, or linoleum	096500 096516	<u>HVAC:</u>	
		Supply/return air system	Div. 23
Base:		Independent temperature control	230923
Resilient	096500	<u>Electrical:</u>	
		Fluorescent lighting	265100
Ceiling:		Illumination level: See Table 8600-4	
Suspended acoustical	095113	Single level switching	262726
		4 duplex receptacles	262726
Walls:		Double duplex receptacle	262726
Painted concrete masonry units	042000/ 099100	adjacent to data port	
<u>LOOSE FURNISHINGS:</u>		<u>Communications:</u>	
(1) Table		1 data port	271513
(4) Chairs		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
<u>ENVIRONMENTAL CONSIDERATIONS:</u>		<u>Miscellaneous:</u>	
<ul style="list-style-type: none"> ▪ Wall minimum STC 48 ▪ Ceiling minimum CAC 35, NRC 0.70 ▪ Uniform lighting with 80% visual comfort probability level 		N/A	

NOTES:

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

CULINARY ARTS AND FOOD SERVICE MANAGEMENT

CHAPTER 6: CAREER-TECHNICAL SCHOOL

CT-P4-1

<p><u>PROGRAM DESCRIPTION:</u> Preparation for employment in managerial, production, and service jobs in a variety of food service and/or baking operations. Includes instruction and experiences to develop competencies in the selection, storage, purchase, preparation, and serving of quantity goods and food products, the production of bakery products, nutrition and special diets, safety and sanitation procedures, use and care of commercial equipment, serving techniques, and management of food establishments.</p> <p>Program Type: 4</p> <p>Size Requirements: 1,800 SF Lab</p> <p>Lab Requirements:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 80%;"></td> <td style="text-align: right; vertical-align: bottom;">Spec. Ref #</td> </tr> <tr> <td><u>FINISHES:</u></td> <td></td> </tr> <tr> <td>Flooring:</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Quarry tile</td> <td style="text-align: right;">093000</td> </tr> <tr> <td>Base:</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Quarry tile base</td> <td style="text-align: right;">093000</td> </tr> <tr> <td>Ceiling:</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Cleanable, suspended acoustical</td> <td style="text-align: right;">095113</td> </tr> <tr> <td>Walls:</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Epoxy painted concrete masonry units</td> <td style="text-align: right; vertical-align: bottom;">042000/099100</td> </tr> <tr> <td style="padding-left: 20px;">Option: ceramic wall tile</td> <td style="text-align: right;">093000</td> </tr> <tr> <td style="padding-left: 40px;">or latex paint</td> <td style="text-align: right;">099100</td> </tr> <tr> <td><u>LOOSE FURNISHINGS:</u></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Wastebasket</td> <td></td> </tr> </table>		Spec. Ref #	<u>FINISHES:</u>		Flooring:		Quarry tile	093000	Base:		Quarry tile base	093000	Ceiling:		Cleanable, suspended acoustical	095113	Walls:		Epoxy painted concrete masonry units	042000/099100	Option: ceramic wall tile	093000	or latex paint	099100	<u>LOOSE FURNISHINGS:</u>		Wastebasket		<p style="text-align: right;">Spec. Ref.#</p> <p><u>FEATURES¹:</u></p> <p><u>Fixed Items:</u></p> <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 20px;">8' of tack board</td> <td style="text-align: right;">101100</td> </tr> <tr> <td style="padding-left: 20px;">Food service equipment</td> <td style="text-align: right;">114000</td> </tr> <tr> <td style="padding-left: 20px;">(3) Paper towel dispensers</td> <td style="text-align: right;">102813</td> </tr> </table> <p><u>Fire Suppression:</u></p> <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 20px;">Fire suppression system</td> <td style="text-align: right;">211000</td> </tr> </table> <p><u>Plumbing:</u></p> <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 20px;">Plumbing connections</td> <td style="text-align: right; vertical-align: bottom;">221116/221119/224000</td> </tr> <tr> <td style="padding-left: 20px;">Connections to food service eqpt</td> <td style="text-align: right;">224000</td> </tr> <tr> <td style="padding-left: 20px;">Gas connections</td> <td style="text-align: right;">226313</td> </tr> <tr> <td style="padding-left: 20px;">Hand washing lavatory</td> <td style="text-align: right;">224000</td> </tr> <tr> <td style="padding-left: 20px;">Quick release gas connections</td> <td style="text-align: right;">226313</td> </tr> <tr> <td style="padding-left: 20px;">Master gas shut-off valve</td> <td style="text-align: right;">226313</td> </tr> </table> <p><u>HVAC:</u></p> <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 20px;">Supply/return air system</td> <td style="text-align: right;">Div. 23</td> </tr> <tr> <td style="padding-left: 20px;">Independent temperature control</td> <td style="text-align: right;">230923</td> </tr> <tr> <td style="padding-left: 20px;">Kitchen canopy exhaust system</td> <td style="text-align: right;">Div. 23</td> </tr> </table> <p><u>Electrical:</u></p> <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 20px;">Fluorescent lighting</td> <td style="text-align: right;">265100</td> </tr> <tr> <td style="padding-left: 40px;">Illumination level: See Table 8600-4</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Single level switching</td> <td style="text-align: right;">262726</td> </tr> <tr> <td style="padding-left: 20px;">10 duplex receptacles (minimum)</td> <td style="text-align: right;">262726</td> </tr> <tr> <td style="padding-left: 20px;">Double duplex receptacle adjacent to each data and video port</td> <td style="text-align: right;">262726</td> </tr> <tr> <td style="padding-left: 20px;">Connections for food service eqpt</td> <td style="text-align: right;">262726</td> </tr> <tr> <td style="padding-left: 20px;">Means of egress lighting per code</td> <td style="text-align: right;">265100</td> </tr> <tr> <td style="padding-left: 20px;">220V service</td> <td style="text-align: right;">262726</td> </tr> </table> <p><u>Communications:</u></p> <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 20px;">1 video port and video display device</td> <td style="text-align: right; vertical-align: bottom;">271533/271543/274119</td> </tr> <tr> <td style="padding-left: 20px;">1 voice port and phone</td> <td style="text-align: right;">271513/273113</td> </tr> <tr> <td style="padding-left: 20px;">4 data ports</td> <td style="text-align: right;">271513</td> </tr> <tr> <td style="padding-left: 20px;">Clock</td> <td style="text-align: right;">275313</td> </tr> <tr> <td style="padding-left: 20px;">Central sound system</td> <td style="text-align: right;">275123</td> </tr> <tr> <td style="padding-left: 20px;">Sound reinforcement system</td> <td style="text-align: right;">275127</td> </tr> </table> <p><u>Electronic Safety and Security:</u></p> <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 20px;">Life safety devices per code</td> <td style="text-align: right;">283111</td> </tr> </table> <p><u>Miscellaneous:</u></p> <p style="padding-left: 20px;">N/A</p>	8' of tack board	101100	Food service equipment	114000	(3) Paper towel dispensers	102813	Fire suppression system	211000	Plumbing connections	221116/221119/224000	Connections to food service eqpt	224000	Gas connections	226313	Hand washing lavatory	224000	Quick release gas connections	226313	Master gas shut-off valve	226313	Supply/return air system	Div. 23	Independent temperature control	230923	Kitchen canopy exhaust system	Div. 23	Fluorescent lighting	265100	Illumination level: See Table 8600-4		Single level switching	262726	10 duplex receptacles (minimum)	262726	Double duplex receptacle adjacent to each data and video port	262726	Connections for food service eqpt	262726	Means of egress lighting per code	265100	220V service	262726	1 video port and video display device	271533/271543/274119	1 voice port and phone	271513/273113	4 data ports	271513	Clock	275313	Central sound system	275123	Sound reinforcement system	275127	Life safety devices per code	283111
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Life safety devices per code	283111																																																																																				

NOTES:

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

CULINARY ARTS AND FOOD SERVICE MANAGEMENT
Restaurant

<p>Program Type: 4</p> <p>Size Requirements: 1,500 SF</p> <p>Requirements:</p> <p><u>FINISHES:</u></p> <p>Flooring:</p> <p>Carpet 096816</p> <p>Option: Vinyl composition tile, 096500</p> <p>VET, sheet vinyl, or linoleum 096516</p> <p>Base:</p> <p>Resilient 096500</p> <p>Ceiling:</p> <p>Suspended acoustical 095113</p> <p>Walls:</p> <p>Painted concrete masonry units 042000/ 099100</p> <p><u>LOOSE FURNISHINGS:</u></p> <p>Wastebasket</p> <p><u>ENVIRONMENTAL CONSIDERATIONS:</u></p> <ul style="list-style-type: none"> ▪ Wall minimum STC 50 ▪ Ceiling minimum CAC 35, NRC 0.70 ▪ Uniform lighting with 80% visual comfort probability level 	<p style="text-align: right;">Spec. <u>Ref.#</u></p> <p><u>FEATURES¹:</u></p> <p><u>Fixed Items:</u></p> <p>6' of base cabinets 123550</p> <p>6' of cashier's station 123550</p> <p>Interior window 088000/081113</p> <p>Projection screen, 6'x8' 115213</p> <p><u>Fire Suppression:</u></p> <p>Fire suppression system 211000</p> <p><u>Plumbing:</u></p> <p>N/A</p> <p><u>HVAC:</u></p> <p>Supply/return air system Div. 23</p> <p>Independent temperature control 230923</p> <p><u>Electrical:</u></p> <p>Fluorescent lighting 265100</p> <p>Illumination level: See Table 8600-4</p> <p>Multilevel switching 262726</p> <p>Incandescent can lighting around 265100</p> <p>perimeter of room</p> <p>4 duplex receptacles 262726</p> <p>Double duplex receptacle adjacent to 262726</p> <p>each data port</p> <p><u>Communications:</u></p> <p>1 voice port and phone 271513/273113</p> <p>2 data ports 271513</p> <p>Clock 275313</p> <p>Central sound system 275123</p> <p><u>Electronic Safety and Security:</u></p> <p>Life safety devices per code 283111</p> <p><u>Miscellaneous:</u></p> <p>N/A</p>
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NOTES:

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

**DENTAL ASSISTANT
CT-P4-1**

<u>PROGRAM DESCRIPTION:</u>	A combination of subject matter and experiences designed to prepare a person to assist the dentist at the chair-side in the dentist operator, perform reception and clerical functions, and carry out selected dental laboratory work. Instruction includes infection control and hazards management, emergency procedures, preventive dental assisting procedures, chair-side assistance, dental specialties, dental laboratory procedures, office procedures, radiographic procedures, and professionalism.	<u>FEATURES¹:</u>	Spec.
Program Type:	4	<u>Fixed Items:</u>	<u>Ref.#</u>
Size Requirements:	1,500 SF Lab	16' of chalk/marker board 101100 8' of tack board 101100 40' of sink base cabinets w/6 sinks and natural gas 123550 40' of wall cabinets 123550 10' of reception counter 123550 Pencil sharpener support 062000 Windows with integral blinds 085113 (6) Paper towel dispensers 102813 Projection screen, 6'x8' 115213	
Lab Requirements:		<u>Fire Suppression:</u>	
		Fire suppression system 211000	
		<u>Plumbing:</u>	
		Plumbing connections 221116/221119/224000 Natural gas connections 226313 Master gas shut-off valve 226313 Safety shower/eye wash 224000	
<u>FINISHES:</u>	Spec.	<u>HVAC:</u>	Div. 23
Flooring:	<u>Ref #</u>	Supply/return air system 230923 Independent temperature control Div. 23 Localized ventilation for specific lab-produced fumes	
Vinyl composition tile, VET, sheet vinyl, or linoleum	096500 096516		
Base:		<u>Electrical:</u>	
Resilient	096500	Fluorescent lighting 265100 Illumination level: See Table 8600-4 Multilevel switching 262726 30 duplex receptacles (minimum) 262726 Double duplex receptacle adjacent to each data and video port 262726	
Ceiling:		<u>Communications:</u>	
Suspended acoustical	095113	1 video port and video display device 271533/271543/274119 1 voice port and phone 271513/273113 8 data ports 271513 Clock 275313 Central sound system 275123 Sound reinforcement system 275127	
Walls:		<u>Electronic Safety and Security:</u>	
Painted concrete masonry units 042000/099100		Life safety devices per code 283111	
<u>LOOSE FURNISHINGS:</u>		<u>Miscellaneous:</u>	
(6) 4-person epoxy-top student tables w/electric and gas		N/A	
(24) Student chairs/stools			
(1) Teacher station & chair			
Wastebasket			
Pencil sharpener			

NOTES:

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

Program Type: 4		FEATURES¹:	Spec.
Size Requirements: 80 SF		Fixed Items:	<u>Ref.#</u>
		N/A	
Requirements:		Fire Suppression:	
		Fire suppression system	211000
FINISHES:	<u>Spec.</u>	Plumbing:	
<u>Flooring:</u>	<u>Ref #</u>	Plumbing connections	
Vinyl composition tile,	096500	221116/221119/224000	
VET, sheet vinyl, or linoleum	096516		
Base:		HVAC:	
Resilient	096500	Supply/return air system	Div. 23
		Independent temperature control	230923
Ceiling:		Electrical:	
Suspended acoustical	095113	Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
Walls:		Single level switching	262726
Painted concrete masonry units	042000/	4 duplex receptacles	262726
	099100		
LOOSE FURNISHINGS:		Communications:	
(1) Chair		Central sound system	275123
		Electronic Safety and Security:	
		Life safety devices per code	283111
		Miscellaneous:	
		N/A	
ENVIRONMENTAL CONSIDERATIONS:			
▪ Wall minimum STC 48			
▪ Ceiling minimum CAC 35, NRC 0.70			
▪ Uniform lighting with 80% visual comfort probability level			

NOTES:

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

**DENTAL ASSISTANT
Darkroom**

<p>Program Type: 4</p> <p>Size Requirements: 80 SF</p> <p>Requirements:</p> <p><u>FINISHES:</u> Flooring: Vinyl composition tile, VET, sheet vinyl, or linoleum</p> <p>Base: Resilient</p> <p>Ceiling: Suspended acoustical</p> <p>Walls: Painted concrete masonry units</p> <p><u>LOOSE FURNISHINGS:</u> Wastebasket</p> <p><u>ENVIRONMENTAL CONSIDERATIONS:</u></p> <ul style="list-style-type: none"> ▪ Wall minimum STC 45 ▪ Ceiling minimum CAC 35, NRC 0.70 ▪ Uniform lighting with 80% visual comfort probability level 	<p style="text-align: right;">Spec. Ref.#</p> <p><u>FEATURES¹:</u> <u>Fixed Items:</u> 10' of base cabinets w/1 sink Paper towel dispenser</p> <p><u>Fire Suppression:</u> Fire suppression system</p> <p><u>Plumbing:</u> Plumbing connections</p> <p><u>HVAC:</u> Supply/return air system Independent temperature control</p> <p><u>Electrical:</u> Fluorescent lighting Illumination level: See Table 8600-4 Single level switching 4 duplex receptacles Dark room safelight</p> <p><u>Communications:</u> Central sound system Clock</p> <p><u>Electronic Safety and Security:</u> Life safety devices per code</p> <p><u>Miscellaneous:</u> N/A</p>
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NOTES:

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

DIVERSIFIED HEALTH OCCUPATIONS

CT-P4-1

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>PROGRAM DESCRIPTION:</u>	A combination of diversified subject matter and experiences designed to prepare a person for entry into the health field. Instruction includes emergency procedures, infection control and hazards management, legal, ethical, and professional responsibilities, basic personal care, medical database, medical/dental procedures, laboratory-related procedures, care of the elderly, home health care, restorative duties, and office procedures. Field trips and rotations through various health agencies are a part of the planned program.	<u>FEATURES¹:</u>	Spec.
Program Type:	4	<u>Fixed Items:</u>	<u>Ref.#</u>
Size Requirements:	1,200 SF Lab	16' of chalk/marker board 101100 8' of tack board 101100 40' of sink base cabinets w/6 sinks and natural gas 123550 40' of wall cabinets 123550 10' of reception counter 123550 Pencil sharpener support 062000 Windows with integral blinds 085113 (6) Paper towel dispenser 102813 Projection screen, 6'x8' 115213	
Lab Requirements:		<u>Fire Suppression:</u>	
		Fire suppression system 211000	
		<u>Plumbing:</u>	
		Plumbing connections 221116/221119/224000 Natural gas connections 226313 Master gas shut-off valve 226313	
<u>FINISHES:</u>		<u>HVAC:</u>	
Flooring:		Supply/return air system Div. 23 Independent temperature control 230923	
Vinyl composition tile, VET, sheet vinyl, or linoleum	Spec. <u>Ref #</u> 096500 096516	<u>Electrical:</u>	
Base:		Fluorescent lighting 265100 Illumination level: See Table 8600-4 Multilevel switching 262726 30 duplex receptacles (minimum) 262726 Double duplex receptacle adjacent to each data and video port 262726	
Resilient	096500	<u>Communications:</u>	
Ceiling:		1 video port and video display device 271533/271543/274119 1 voice port and phone 271513/273113 1 data port near teacher workstation 271513 8 data ports 271513 Clock 275313 Central sound system 275123 Sound reinforcement system 275127	
Suspended acoustical	095113	<u>Electronic Safety and Security:</u>	
Walls:		Life safety devices per code 283111	
Painted concrete masonry units	042000/ 099100	<u>Miscellaneous:</u>	
<u>LOOSE FURNISHINGS:</u>		N/A	
(6) 4-person epoxy-top student tables with electric & natural gas (24) Student chairs/stools (1) Teacher station & chair Wastebasket Pencil sharpener			

NOTES:

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

**FIRE FIGHTER TRAINING
CT-P4-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p><u>PROGRAM DESCRIPTION:</u> Specialized classroom and practical experiences concerned with the preparation of paid, full-time firefighters.</p> <p>Program Type: 4</p> <p>Size Requirements: 1,500 SF Lab</p> <p>Lab Requirements:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 80%;"><u>FINISHES:</u></td> <td style="text-align: right; vertical-align: bottom;">Spec. Ref #</td> </tr> <tr> <td>Flooring:</td> <td></td> </tr> <tr> <td> Carpet</td> <td style="text-align: right;">096816</td> </tr> <tr> <td> Option: Vinyl composition tile, VET, sheet vinyl, or linoleum</td> <td style="text-align: right; vertical-align: bottom;">096500 096516</td> </tr> <tr> <td>Base:</td> <td></td> </tr> <tr> <td> Resilient</td> <td style="text-align: right;">096500</td> </tr> <tr> <td>Ceiling:</td> <td></td> </tr> <tr> <td> Suspended acoustical</td> <td style="text-align: right;">095113</td> </tr> <tr> <td>Walls:</td> <td></td> </tr> <tr> <td> Painted concrete masonry units</td> <td style="text-align: right; vertical-align: bottom;">042000/ 099100</td> </tr> <tr> <td><u>LOOSE FURNISHINGS:</u></td> <td></td> </tr> <tr> <td> (12) Two-person work tables</td> <td></td> </tr> <tr> <td> (24) Student chairs/stools</td> <td></td> </tr> <tr> <td> (1) Teacher station & chair</td> <td></td> </tr> <tr> <td> Wastebasket</td> <td></td> </tr> <tr> <td> Pencil sharpener</td> <td></td> </tr> </table>	<u>FINISHES:</u>	Spec. 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Life safety devices per code	283111																																																																																		

NOTES:

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

**FIRE FIGHTER TRAINING
Weight Room**

Program Type: 4	FEATURES¹:	Spec.
Size Requirements: 800 SF	Fixed Items:	<u>Ref.#</u>
Requirements:	N/A	
<u>FINISHES:</u>	Fire Suppression:	
Flooring:	Fire suppression system	211000
Vinyl composition tile,	Plumbing:	
VET, sheet vinyl, or linoleum	N/A	
Option: sealed concrete	HVAC:	
Spec.	Supply/return air system	Div. 23
<u>Ref #</u>	Independent temperature control	230923
Base:	Electrical:	
Resilient	Fluorescent lighting	265100
Ceiling:	Illumination level: See Table 8600-4	
Suspended acoustical	Single level switching	262726
Walls:	4 duplex receptacles	262726
Painted concrete masonry units	Double duplex receptacle adjacent to	
042000/	data port	262726
099100	Communications:	
<u>LOOSE FURNISHINGS:</u>	Clock	275313
N/A	Central sound system	275123
<u>ENVIRONMENTAL CONSIDERATIONS:</u>	Electronic Safety and Security:	
▪ Wall minimum STC 48	Life safety devices per code	283111
▪ Ceiling minimum CAC 35, NRC 0.70	Miscellaneous:	
▪ Uniform lighting with 80% visual comfort	N/A	
probability level		

NOTES:

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

**MEDICAL ASSISTANT
CT-P4-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p><u>PROGRAM DESCRIPTION:</u> A combination of subject matter and experiences designed to prepare a person to perform functions and follow procedures concerned with the diagnosis and treatment of patients under the supervision of a physician in a physician's office or clinic. Instruction covers physical examinations, laboratory tests, infection control and hazard material management, quality assurance, medical ethics, patient education, medical emergencies, general office procedures, insurance, and medications.</p> <p>Program Type: 4</p> <p>Size Requirements: 1,200 SF Lab</p> <p>Lab Requirements:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 80%;"><u>FINISHES:</u></td> <td style="text-align: right; vertical-align: bottom;">Spec. <u>Ref #</u></td> </tr> <tr> <td> <p>Flooring:</p> <p style="padding-left: 20px;">Vinyl composition tile, 096500 VET, sheet vinyl, or linoleum 096516</p> <p>Base:</p> <p style="padding-left: 20px;">Resilient 096500</p> <p>Ceiling:</p> <p style="padding-left: 20px;">Suspended acoustical 095113</p> <p>Walls:</p> <p style="padding-left: 20px;">Painted concrete masonry units 042000/ 099100</p> </td> <td></td> </tr> </table> <p><u>LOOSE FURNISHINGS:</u> (12) Two-person work tables (24) Student chairs/stools (1) Teacher station & chair Wastebasket Pencil sharpener</p>	<u>FINISHES:</u>	Spec. <u>Ref #</u>	<p>Flooring:</p> <p style="padding-left: 20px;">Vinyl composition tile, 096500 VET, sheet vinyl, or linoleum 096516</p> <p>Base:</p> <p style="padding-left: 20px;">Resilient 096500</p> <p>Ceiling:</p> <p style="padding-left: 20px;">Suspended acoustical 095113</p> <p>Walls:</p> <p style="padding-left: 20px;">Painted concrete masonry units 042000/ 099100</p>		<p><u>FEATURES¹:</u> <u>Fixed Items:</u></p> <table style="width: 100%; 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NOTES:

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

**MEDICAL ASSISTANT
Training Restroom**

<p>Program Type: 4</p> <p>Size Requirements: 120 SF</p> <p>Requirements:</p> <p><u>FINISHES:</u> Flooring: Rubber, linoleum, VET, or sheet vinyl Option: ceramic mosaic tile, porcelain tile base, or resinous flooring</p> <p>Base: Resilient Option: ceramic mosaic tile base, porcelain tile base, or resinous flooring</p> <p>Ceiling: Suspended acoustical</p> <p>Walls: Painted concrete masonry units</p> <p><u>LOOSE FURNISHINGS:</u> Wastebasket</p> <p><u>ENVIRONMENTAL CONSIDERATIONS:</u></p> <ul style="list-style-type: none"> ▪ Wall minimum STC 48 ▪ Ceiling minimum CAC 35, NRC 0.70 ▪ Uniform lighting with 80% visual comfort probability level 	<p style="text-align: right;">Spec. <u>Ref.#</u></p> <p><u>FEATURES¹:</u> <u>Fixed Items:</u> 3' vanity with sink Paper towel dispenser Soap dispenser 36" and 42" grab bars 16"x24" mirror Toilet paper holder Bathtub grab bars Bath curtain rod</p> <p><u>Fire Suppression:</u> Fire suppression system</p> <p><u>Plumbing:</u> Tank-type toilet Residential bathtub Plumbing connections</p> <p><u>HVAC:</u> Exhaust air system Supplemental heat as required</p> <p><u>Electrical:</u> Fluorescent lighting Illumination level: See Table 8600-4 Single level switching 2 duplex receptacles</p> <p><u>Communications:</u> Central sound system</p> <p><u>Electronic Safety and Security:</u> Life safety devices per code</p> <p><u>Miscellaneous:</u> N/A</p>
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NOTES:

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

Program Type: 4		FEATURES¹:	Spec. Ref.#
Size Requirements: 120 SF		Fixed Items:	
		6' of base cabinets	123550
		6' of adjustable shelving	062000
Requirements:		Fire Suppression:	
	Spec. Ref #	Fire suppression system	211000
FINISHES:		Plumbing:	
Flooring:		Plumbing connections	221116/221119/224000
Vinyl composition tile,	096500	Washer/dryer connection	224000
VET, sheet vinyl, or linoleum	096516		
Base:		HVAC:	
Resilient	096500	Exhaust air system	Div. 23
Ceiling:		Supplemental heat as required	Div. 23
Suspended acoustical	095113	Dryer vent system	Div. 23
Walls:		Electrical:	
Painted concrete masonry units	042000/ 099100	Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		Single level switching	262726
		4 duplex receptacles	262726
LOOSE FURNISHINGS:		Communications:	
Clothes washer		Clock	275313
Electric clothes dryer		Central sound system	275123
Wastebasket			
		Electronic Safety and Security:	
		Life safety devices per code	283111
ENVIRONMENTAL CONSIDERATIONS:		Miscellaneous:	
▪ Wall minimum STC 45		N/A	
▪ Ceiling minimum CAC 35, NRC 0.70			
▪ Uniform lighting with 80% visual comfort probability level			

NOTES:

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

**NURSE ASSISTING
CT-P4-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>PROGRAM DESCRIPTION:</u>	A combination of subject matter and experiences designed to prepare a person to perform routine tasks involved in the care of individuals receiving nursing service under the supervision of a nurse.	<u>FEATURES¹:</u>	Spec.
Program Type:	4	<u>Fixed Items:</u>	<u>Ref.#</u>
Size Requirements:	1,200 SF Lab	16' of chalk/marker board	101100
Lab Requirements:		8' of tack board	101100
		40' of sink base cabinets w/3 sinks	123550
		40' of wall cabinets	123550
		10' of reception counter	123550
		Pencil sharpener support	062000
		Windows with integral blinds	085113
		(3) Paper towel dispensers	102813
		Projection screen, 6'x8'	115213
		<u>Fire Suppression:</u>	
		Fire suppression system	211000
		<u>Plumbing:</u>	
		Plumbing connections	221116/221119/224000
		<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Independent temperature control	230923
		<u>Electrical:</u>	
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		Multilevel switching	262726
		20 duplex receptacles (minimum)	262726
		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u>	
		1 video port and video display device	271533/271543/274119
		1 voice port and phone	271513/273113
		1 data port near teacher workstation	271513
		8 data ports	271513
		Clock	275313
		Central sound system	275123
		Sound reinforcement system	275127
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

		Spec. Ref.#
Program Type:	4	
Size Requirements:	120 SF	
Requirements:		
<u>FINISHES:</u>	Spec. Ref #	
Flooring:		
Rubber, linoleum, VET, or sheet vinyl	096500 096516	
Option: ceramic mosaic tile, porcelain tile base, or resinous flooring	093000 096723	
Base:		
Resilient	096500	
Option: ceramic mosaic tile base, porcelain tile base, or resinous flooring	093000 096723	
Ceiling:		
Suspended acoustical	095113	
Walls:		
Painted concrete masonry units	042000/ 099100	
<u>LOOSE FURNISHINGS:</u>		
Wastebasket		
<u>ENVIRONMENTAL CONSIDERATIONS:</u>		
▪ Wall minimum STC 48		
▪ Ceiling minimum CAC 35, NRC 0.70		
▪ Uniform lighting with 80% visual comfort probability level		
		<u>FEATURES¹:</u>
		<u>Fixed Items:</u>
		3' vanity with sink 123550
		Paper towel dispenser 102813
		Soap dispenser 102813
		36" and 42" grab bars 102813
		16"x24" mirror 102813
		Toilet paper holder 102813
		Bathtub grab bars 102813
		Bath curtain rod 102813
		<u>Fire Suppression:</u>
		Fire suppression system 211000
		<u>Plumbing:</u>
		Tank-type toilet 224000
		Residential bathtub 224000
		Plumbing connections 221116/221119/224000
		<u>HVAC:</u>
		Exhaust air system Div. 23
		Supplemental heat as required Div. 23
		<u>Electrical:</u>
		Fluorescent lighting 265100
		Illumination level: See Table 8600-4
		Single level switching 262726
		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.

**NURSE ASSISTING
Laundry Room**

		Spec. Ref.#
Program Type:	4	
Size Requirements:	120 SF	
Requirements:		
<u>FINISHES:</u>	Spec. Ref #	
Flooring:		
Vinyl composition tile,	096500	
VET, sheet vinyl, or linoleum	096516	
Base:		
Resilient	096500	
Ceiling:		
Suspended acoustical	095113	
Walls:		
Painted concrete masonry units	042000/ 099100	
<u>LOOSE FURNISHINGS:</u>		
Clothes washer		
Electric clothes dryer		
Wastebasket		
<u>ENVIRONMENTAL CONSIDERATIONS:</u>		
▪ Wall minimum STC 45		
▪ Ceiling minimum CAC 35, NRC 0.70		
▪ Uniform lighting with 80% visual comfort probability level		
		<u>FEATURES¹:</u>
		<u>Fixed Items:</u>
		6' of base cabinets
		123550
		6' of adjustable shelving
		062000
		<u>Fire Suppression:</u>
		Fire suppression system
		211000
		<u>Plumbing:</u>
		Plumbing connections
		221116/221119/224000
		Washer/dryer connections
		224000
		<u>HVAC:</u>
		Exhaust air system
		Div. 23
		Supplemental heat as required
		Div. 23
		Dryer vent system
		Div. 23
		<u>Electrical:</u>
		Fluorescent lighting
		265100
		Illumination level: See Table 8600-4
		Single level switching
		262726
		4 duplex receptacles
		262726
		<u>Communications:</u>
		Clock
		275313
		Central sound system
		275123
		<u>Electronic Safety and Security:</u>
		Life safety devices per code
		283111
		<u>Miscellaneous:</u>
		N/A

NOTES:

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

**OPTOMETRIC OCCUPATIONS
CT-P4-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p><u>PROGRAM DESCRIPTION:</u> A combination of subject matter and experiences designed to train a person to prepare, assemble, and/or fit corrective lenses prescribed by a physician or optometrist. These occupations may include optical surfacing, optical finishing, optical stylist, and/or optical dispensing.</p> <p>Program Type: 4</p> <p>Size Requirements: 1,200 SF Lab</p> <p>Lab Requirements:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 35%;"><u>FINISHES:</u></td> <td style="width: 15%; text-align: center;">Spec.</td> <td style="width: 50%;"></td> </tr> <tr> <td></td> <td style="text-align: center;"><u>Ref #</u></td> <td></td> </tr> <tr> <td colspan="3">Flooring:</td> </tr> <tr> <td style="padding-left: 20px;">Vinyl composition tile,</td> <td style="text-align: center;">096500</td> <td></td> </tr> <tr> <td style="padding-left: 40px;">VET, sheet vinyl, or linoleum</td> <td style="text-align: center;">096516</td> <td></td> </tr> <tr> <td colspan="3">Base:</td> </tr> <tr> <td style="padding-left: 20px;">Resilient</td> <td style="text-align: center;">096500</td> <td></td> </tr> <tr> <td colspan="3">Ceiling:</td> </tr> <tr> <td style="padding-left: 20px;">Suspended acoustical</td> <td style="text-align: center;">095113</td> <td></td> </tr> <tr> <td colspan="3">Walls:</td> </tr> <tr> <td style="padding-left: 20px;">Painted concrete masonry units</td> <td style="text-align: center;">042000/ 099100</td> <td></td> </tr> <tr> <td colspan="3"><u>LOOSE FURNISHINGS:</u></td> </tr> <tr> <td style="padding-left: 20px;">(6) 4-person epoxy-top student tables with electric & natural gas</td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">(24) Student chairs/stools</td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">(1) Teacher station & chair</td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Wastebasket</td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Pencil sharpener</td> <td></td> <td></td> </tr> </table>	<u>FINISHES:</u>	Spec.			<u>Ref #</u>		Flooring:			Vinyl composition tile,	096500		VET, sheet vinyl, or linoleum	096516		Base:			Resilient	096500		Ceiling:			Suspended acoustical	095113		Walls:			Painted concrete masonry units	042000/ 099100		<u>LOOSE FURNISHINGS:</u>			(6) 4-person epoxy-top student tables with electric & natural gas			(24) Student chairs/stools			(1) Teacher station & chair			Wastebasket			Pencil sharpener			<p><u>FEATURES¹:</u></p> <p><u>Fixed Items:</u></p> <table style="width: 100%; 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NOTES:

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

OPTOMETRIC OCCUPATIONS
Exam Room

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p>Program Type: 4</p> <p>Size Requirements: 100 SF</p> <p>Requirements:</p> <p><u>FINISHES:</u> Flooring: Vinyl composition tile, VET, sheet vinyl, or linoleum</p> <p>Base: Resilient</p> <p>Ceiling: Suspended acoustical</p> <p>Walls: Painted concrete masonry units</p> <p><u>LOOSE FURNISHINGS:</u> 2 stools</p> <p><u>ENVIRONMENTAL CONSIDERATIONS:</u></p> <ul style="list-style-type: none"> ▪ Wall minimum STC 48 ▪ Ceiling minimum CAC 35, NRC 0.70 ▪ Uniform lighting with 80% visual comfort probability level 	<p style="text-align: right;">Spec. Ref.#</p> <p><u>FEATURES¹:</u> <u>Fixed Items:</u> 4' of base cabinets 123550</p> <p><u>Fire Suppression:</u> Fire suppression system 211000</p> <p><u>Plumbing:</u> N/A</p> <p><u>HVAC:</u> Supply/return air system Div. 23 Independent temperature control 230923</p> <p><u>Electrical:</u> Fluorescent lighting 265100 Illumination level: See Table 8600-4 Single level switching 262726 4 duplex receptacles 262726 Double duplex receptacle adjacent to data port 262726</p> <p><u>Communications:</u> 1 data port 271513 1 voice port and phone 271513/273113 1 clock 275313 Central sound system 275123</p> <p><u>Electronic Safety and Security:</u> Life safety devices per code 283111</p> <p><u>Miscellaneous:</u> N/A</p>
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NOTES:

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

**PATIENT CARE TECHNICIAN
CT-P4-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p><u>PROGRAM DESCRIPTION:</u> Subject matter and laboratory experiences to provide students with the knowledge and skills in the care of patients of all ages under the direction and supervision of a registered nurse or licensed practical nurse and for advance nursing skills.</p> <p>Program Type: 4</p> <p>Size Requirements: 1,500 SF Lab</p> <p>Lab Requirements:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 80%;"></td> <td style="text-align: right; vertical-align: top;">Spec. <u>Ref #</u></td> </tr> <tr> <td colspan="2"><u>FINISHES:</u></td> </tr> <tr> <td colspan="2">Flooring:</td> </tr> <tr> <td style="padding-left: 20px;">Vinyl composition tile,</td> <td style="text-align: right; vertical-align: bottom;">096500</td> </tr> <tr> <td style="padding-left: 40px;">VET, sheet vinyl, or linoleum</td> <td style="text-align: right; vertical-align: bottom;">096516</td> </tr> <tr> <td colspan="2">Base:</td> </tr> <tr> <td style="padding-left: 20px;">Resilient</td> <td style="text-align: right; 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border: none;"> <tr> <td style="padding-left: 20px;">Life safety devices per code</td> <td style="text-align: right; vertical-align: bottom;">283111</td> </tr> </table> <p><u>Miscellaneous:</u> N/A</p>	16' of chalk/marker board	101100	8' of tack board	101100	30' of sink base cabinets w/2 sinks	123550	30' of wall cabinets	123550	10' of reception counter	123550	Pencil sharpener support	062000	Windows with integral blinds	085113	(2) Paper towel dispensers	102813	Projection screen, 6'x8'	115213	100' of cubicle track and curtains	102123	Fire suppression system	211000	Plumbing connections	221116/221119/224000	Supply/return air system	Div. 23	Independent temperature control	230923	Fluorescent lighting	265100	Illumination level: See Table 8600-4		Multilevel switching	262726	20 duplex receptacles (minimum)	262726	Double duplex receptacle adjacent to each data and video port	262726	1 video port, monitor, and brackets	271533/271543/274119	1 voice port and phone	271513/273113	1 data port near teacher workstation	271513	8 data ports	271513	Clock	275313	Central sound system	275123	Sound reinforcement system	275127	Overhead projector	274119	Life safety devices per code	283111
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VET, sheet vinyl, or linoleum	096516																																																																																										
Base:																																																																																											
Resilient	096500																																																																																										
Ceiling:																																																																																											
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Walls:																																																																																											
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(24) Student chairs/stools																																																																																											
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Supply/return air system	Div. 23																																																																																										
Independent temperature control	230923																																																																																										
Fluorescent lighting	265100																																																																																										
Illumination level: See Table 8600-4																																																																																											
Multilevel switching	262726																																																																																										
20 duplex receptacles (minimum)	262726																																																																																										
Double duplex receptacle adjacent to each data and video port	262726																																																																																										
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1 voice port and phone	271513/273113																																																																																										
1 data port near teacher workstation	271513																																																																																										
8 data ports	271513																																																																																										
Clock	275313																																																																																										
Central sound system	275123																																																																																										
Sound reinforcement system	275127																																																																																										
Overhead projector	274119																																																																																										
Life safety devices per code	283111																																																																																										

NOTES:

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

**PATIENT CARE TECHNICIAN
Training Restroom**

<p>Program Type: 4</p> <p>Size Requirements: 120 SF</p> <p>Requirements:</p> <p><u>FINISHES:</u> Flooring: Rubber, linoleum, VET, or sheet vinyl Option: ceramic mosaic tile, porcelain tile base, or resinous flooring</p> <p>Base: Resilient Option: ceramic mosaic tile base, porcelain tile base, or resinous flooring</p> <p>Ceiling: Suspended acoustical</p> <p>Walls: Painted concrete masonry units</p> <p><u>LOOSE FURNISHINGS:</u> Wastebasket</p> <p><u>ENVIRONMENTAL CONSIDERATIONS:</u></p> <ul style="list-style-type: none"> ▪ Wall minimum STC 48 ▪ Ceiling minimum CAC 35, NRC 0.70 ▪ Uniform lighting with 80% visual comfort probability level 	<p style="text-align: right;">Spec. <u>Ref.#</u></p> <p><u>FEATURES¹:</u> <u>Fixed Items:</u> 3' vanity with sink Paper towel dispenser Soap dispenser 36" and 42" grab bars 16"x24" mirror Toilet paper holder Bathtub grab bars Bath curtain rod</p> <p><u>Fire Suppression:</u> Fire suppression system</p> <p><u>Plumbing:</u> Tank-type toilet Residential bathtub Plumbing connections</p> <p><u>HVAC:</u> Exhaust air system Supplemental heat as required</p> <p><u>Electrical:</u> Fluorescent lighting Illumination level: See Table 8600-4 Single level switching 2 duplex receptacles</p> <p><u>Communications:</u> Central sound system</p> <p><u>Electronic Safety and Security:</u> Life safety devices per code</p> <p><u>Miscellaneous:</u> N/A</p>
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NOTES:

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

**SURGICAL TECHNOLOGY
CT-P4-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>PROGRAM DESCRIPTION:</u>	A combination of subject matter and experiences designed to prepare a person to serve as a general assistant on the surgical team in the operating unit.	<u>FEATURES¹:</u>	Spec.
Program Type:	4	<u>Fixed Items:</u>	<u>Ref.#</u>
Size Requirements:	1,000 SF Lab	16' of chalk/marker board 101100 8' of tack board 101100 20' of sink base cabinets w/1 sink 123550 20' of wall cabinets 123550 Pencil sharpener support 062000 Windows with integral blinds 085113 Paper towel dispenser 102813 Projection screen, 6'x8' 115213	
Lab Requirements:		<u>Fire Suppression:</u>	
		Fire suppression system 211000	
<u>FINISHES:</u>		<u>Plumbing:</u>	
Flooring:		Plumbing connections 221116/221119/224000	
Vinyl composition tile, VET, sheet vinyl, or linoleum	Spec. <u>Ref #</u>		
	096500		
	096516		
Base:		<u>HVAC:</u>	
Resilient	096500	Supply/return air system Div. 23 Independent temperature control 230923	
Ceiling:		<u>Electrical:</u>	
Suspended acoustical	095113	Fluorescent lighting 265100 Illumination level: See Table 8600-4 Multilevel switching 262726 10 duplex receptacles (minimum) 262726 Double duplex receptacle adjacent to each data and video port 262726	
Walls:		<u>Communications:</u>	
Painted concrete masonry units	042000/099100	1 video port and video display device 271533/271543/274119 1 voice port and phone 271513/273113 1 data port near teacher workstation 271513 8 data ports 271513 Clock 275313 Central sound system 275123 Sound reinforcement system 275127	
<u>LOOSE FURNISHINGS:</u>		<u>Electronic Safety and Security:</u>	
(12) Two-person work tables		Life safety devices per code 283111	
(24) Student chairs/stools			
(1) Teacher station & chair			
Wastebasket			
Pencil sharpener		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

		Spec. Ref.#
Program Type:	4	
Size Requirements:	800 SF	
Requirements:		
<u>FINISHES:</u>	<u>Spec. Ref #</u>	
Flooring:		
Vinyl composition tile,	096500	
VET, sheet vinyl, or linoleum	096516	
Base:		
Resilient	096500	
Ceiling:		
Suspended acoustical	095113	
Walls:		
Painted concrete masonry units	042000/ 099100	
<u>LOOSE FURNISHINGS:</u>		
Wastebasket		
<u>ENVIRONMENTAL CONSIDERATIONS:</u>		
▪ Wall minimum STC 48		
▪ Ceiling minimum CAC 35, NRC 0.70		
▪ Uniform lighting with 80% visual comfort probability level		
		<u>FEATURES¹:</u>
		<u>Fixed Items:</u>
		4' of base cabinets w/1 sink
		Paper towel dispenser
		123550
		102813
		<u>Fire Suppression:</u>
		Fire suppression system
		211000
		<u>Plumbing:</u>
		Plumbing connections
		221116/221119/224000
		<u>HVAC:</u>
		Supply/return air system
		Independent temperature control
		Div. 23 230923
		<u>Electrical:</u>
		Fluorescent lighting
		265100
		Illumination level: See Table 8600-4
		Single level switching
		262726
		6 duplex receptacles
		262726
		Double duplex receptacle adjacent to
		data port
		262726
		<u>Communications:</u>
		1 data port per room
		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.

**SURGICAL TECHNOLOGY
Scrub Room**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p>Program Type: 4</p> <p>Size Requirements: 500 SF</p> <p>Requirements:</p> <p><u>FINISHES:</u></p> <p>Flooring: Sheet vinyl or linoleum</p> <p>Base: Resilient</p> <p>Ceiling: Suspended acoustical</p> <p>Walls: Painted concrete masonry units</p> <p><u>LOOSE FURNISHINGS:</u> Wastebasket</p> <p><u>ENVIRONMENTAL CONSIDERATIONS:</u></p> <ul style="list-style-type: none"> ▪ Wall minimum STC 45 ▪ Ceiling minimum CAC 35, NRC 0.70 ▪ Uniform lighting with 80% visual comfort probability level 	<p style="text-align: right;">Spec. <u>Ref.#</u></p> <p><u>FEATURES¹:</u></p> <p><u>Fixed Items:</u></p> <p>6' of base cabinets 123550 6' of wall cabinets 123550 Paper towel dispenser 102813</p> <p><u>Fire Suppression:</u></p> <p>Fire suppression system 211000</p> <p><u>Plumbing:</u></p> <p>2 scrub sinks 224000 Plumbing connections 221116/221119/224000</p> <p><u>HVAC:</u></p> <p>Supply/return air system Div. 23 Independent temperature control 230923</p> <p><u>Electrical:</u></p> <p>Fluorescent lighting 265100 Illumination level: See Table 8600-4 Single level switching 262726 6 duplex receptacles 262726</p> <p><u>Communications:</u></p> <p>Clock 275313 Central sound system 275123</p> <p><u>Electronic Safety and Security:</u></p> <p>Life safety devices per code 283111</p> <p><u>Miscellaneous:</u> N/A</p>
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NOTES:

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

**DIAGNOSTIC PATHWAY
CT-P4-1**

<u>PROGRAM DESCRIPTION:</u>	<u>FEATURES¹:</u>	Spec.
A Diagnostic Pathway targets three or more technician-level occupations within one or more of the following areas – rehabilitation services (including occupational and physical therapy); medical diagnostic and treatment services (including respiratory therapy, radiography, perfusion, nuclear medicine, surgical technology, cardiovascular, electrocardiogram, sonography); medical laboratory technologies (including hematology, cytology, blood bank, and histology); mental health services; pharmacy; and medical administrative services (including health information/medical records). This clustered Tech Prep program of study prepares students for continued education and training for employment as an allied health technician.	<u>Fixed Items:</u>	<u>Ref.#</u>
	16' of chalk/marker board	101100
	8' of tack board	101100
	20' of sink base cabinets w/1 sink	123550
	20' of wall cabinets	123550
	10' of reception counter	123550
	Pencil sharpener support	062000
	Windows with integral blinds	085113
	(1) Paper towel dispenser	102813
	Projection screen, 6'x8'	115213
	<u>Fire Suppression:</u>	
	Fire suppression system	211000
	<u>Plumbing:</u>	
	Plumbing connections	221116/221119/224000
	Safety shower/eyewash	224500
	<u>HVAC:</u>	
	Supply/return air system	Div. 23
	Independent temperature control	230923
	<u>Electrical:</u>	
	Fluorescent lighting	265100
	Illumination level: See Table 8600-4	
	Multilevel switching	262726
	20 duplex receptacles (minimum)	262726
	Double duplex receptacle adjacent to each data and video port	262726
	<u>Communications:</u>	
	1 video port and video display device	271533/271543/274119
	1 voice port and phone	271513/273113
	1 data port near teacher workstation	271513
	8 data ports	271513
	Clock	275313
	Central sound system	275123
	Sound reinforcement system	275127
	<u>Electronic Safety and Security:</u>	
	Life safety devices per code	283111
	<u>Miscellaneous:</u>	
	N/A	
Program Type:	4	
Size Requirements:	1,200 SF Lab	
Lab Requirements:		
	Spec.	
	<u>Ref #</u>	
<u>FINISHES:</u>		
Flooring:		
Vinyl composition tile,	096500	
VET, sheet vinyl, or linoleum	096516	
Base:		
Resilient	096500	
Ceiling:		
Suspended acoustical	095113	
Walls:		
Painted concrete masonry units	042000/ 099100	
<u>LOOSE FURNISHINGS:</u>		
(12) Two-person work tables		
(24) Student chairs/stools		
(1) Teacher station & chair		
Wastebasket		
Pencil sharpener		

NOTES:

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

**DIAGNOSTIC PATHWAY
Exam Room(s)**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p>Program Type: 4</p> <p>Size Requirements: 200 SF</p> <p>Requirements:</p> <p><u>FINISHES:</u> Flooring: Vinyl composition tile, VET, sheet vinyl, or linoleum</p> <p>Base: Resilient</p> <p>Ceiling: Suspended acoustical</p> <p>Walls: Painted concrete masonry units</p> <p><u>LOOSE FURNISHINGS:</u> (1) stool per room (1) wastebasket per room</p> <p><u>ENVIRONMENTAL CONSIDERATIONS:</u></p> <ul style="list-style-type: none"> ▪ Wall minimum STC 48 ▪ Ceiling minimum CAC 35, NRC 0.70 ▪ Uniform lighting with 80% visual comfort probability level 	<p style="text-align: right;">Spec. Ref.#</p> <p><u>FEATURES¹:</u> <u>Fixed Items:</u> 4' of base cabinets w/1 sink per room Paper towel dispenser</p> <p><u>Fire Suppression:</u> Fire suppression system</p> <p><u>Plumbing:</u> Plumbing connections</p> <p><u>HVAC:</u> Supply/return air system Independent temperature control</p> <p><u>Electrical:</u> Fluorescent lighting Illumination level: See Table 8600-4 Single level switching 4 duplex receptacles per room Double duplex receptacle adjacent to each data port</p> <p><u>Communications:</u> 1 data port per room 1 clock per room Central sound system</p> <p><u>Electronic Safety and Security:</u> Life safety devices per code</p> <p><u>Miscellaneous:</u> N/A</p>
	<p style="text-align: right;">123550 102813 211000 221116/221119/224000 Div. 23 230923 265100 262726 262726 262726 271513 275313 275123 283111</p>

NOTES:

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

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ARTS AND COMMUNICATIONS - PERFORMING ARTS PATHWAY

Dance • Music • Theater

CHAPTER 6: CAREER-TECHNICAL SCHOOL

CT-P4-1

<u>PROGRAM DESCRIPTION:</u> Integrated learning experience in performing arts consisting of dance, theater, and music.		Spec. Ref.#
Program Type:	4	
Size Requirements: 1,500 SF Dance/Music Room		
<u>FINISHES:</u>	Spec. Ref #	FEATURES¹:
Flooring:		<u>Fixed Items:</u>
Hardwood	096000	8' of tack board
Base:		16' length of 60" high mirrors
Resilient	096500	16' of ballet bars
Ceiling:		
Painted, exposed structure	099100	<u>Fire Suppression:</u>
Walls:		Fire suppression system
Painted concrete masonry units	042000/ 099100	<u>Plumbing:</u>
Acoustical wall treatment	098000	Drinking water cooler
<u>LOOSE FURNISHINGS:</u> (25) Student stools/chairs		<u>HVAC:</u>
		Supply/return air system
		Independent temperature control
		<u>Electrical:</u>
		Fluorescent lighting
		Illumination level: See Table 8600-4
		Track lighting
		Multilevel switching
		10 duplex receptacles
		Double duplex receptacle adjacent to each data and video port
		<u>Communications:</u>
		1 video port
		1 voice port and phone
		Clock
		Central sound system
		Sound reinforcement system
		<u>Electronic Safety and Security:</u>
		Life safety devices per code
		<u>Miscellaneous:</u>
		N/A

NOTES:

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

**ARTS AND COMMUNICATIONS - PERFORMING ARTS PATHWAY
Practice Room**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p>Program Type: 4</p> <p>Size Requirements: 150 SF</p> <p>Requirements:</p> <p><u>FINISHES:</u> Flooring: Vinyl composition tile, VET, Spec. 096500 sheet vinyl, or linoleum Ref # 096516 Optional: carpet 096816</p> <p>Base: Resilient 096500</p> <p>Ceiling: Suspended acoustical 095113 Absorptive 25%, reflective 25%, diffusive 50%</p> <p>Walls: Painted concrete masonry units 042000/ 099100 Acoustical wall treatment (varies with geometry of room) 098000</p> <p><u>LOOSE FURNISHINGS:</u> L1 Music Stands L2 Music chairs</p>	<p style="text-align: right;">Spec. Ref.#</p> <p><u>FEATURES¹:</u> <u>Fixed Items:</u> N/A</p> <p><u>Fire Suppression:</u> Fire suppression system 211000</p> <p><u>Plumbing:</u> Plumbing connections 221116/221119/224000</p> <p><u>HVAC:</u> Supply/return air system Div. 23 Independent temperature control 230923</p> <p><u>Electrical:</u> Fluorescent lighting 265100 Illumination level: See Table 8600-4 Single level switching 262726 4 duplex receptacles 262726</p> <p><u>Communications:</u> 1 voice port and phone 271513/273113 Central sound system 275123 Clock 275313</p> <p><u>Electronic Safety and Security:</u> Life safety devices per code 283111</p> <p><u>Miscellaneous:</u> Interior window 081113/088000</p>
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NOTES:

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

ARTS AND COMMUNICATIONS - MEDIA ARTS PATHWAY
Digital TV/Video • Journalism

CHAPTER 6: CAREER-TECHNICAL SCHOOL

CT-P4-1

<u>PROGRAM DESCRIPTION:</u> Integrated learning experience in media arts consisting of digital TV/video, journalism, and photography.		<u>FEATURES</u> ¹ : <u>Fixed Items:</u> Overhead metal pipe grid (48" o.c., both ways) to support studio lights & accessories 055000 Cyclorama curtain & track, min. of 2 walls 116143	Spec. Ref.#
Program Type:	4	<u>Fire Suppression:</u> Fire suppression system	211000
Size Requirements:	1,500 SF Lab	<u>Plumbing:</u> N/A	
Studio Requirements:		<u>HVAC:</u> Supply/return air system Independent temperature control	Div. 23 230923
<u>FINISHES:</u>	Spec. Ref #	<u>Electrical:</u> Fluorescent lighting Track lighting Multilevel switching 20 duplex receptacles Double duplex receptacle adjacent to each data and video port Emergency lighting	265100 265100 262726 262726 262726 265100
Flooring:			
Sheet vinyl, VCT, linoleum	096516 096500		
Base:			
Resilient	096500		
Ceiling:			
Pipe grid – 14' to bottom	116135		
Walls:		<u>Communications:</u> 1 video port 1 voice port and phone 2 data ports Clock Cable management system Special A/V Cabling Conveyance Special A/V Cabling	271533/271543 271513/273113 271513 275313
Painted concrete masonry units	042000/ 099100		
Acoustical wall treatment	098000		
		<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.

**ARTS AND COMMUNICATIONS – MEDIA ARTS PATHWAY
 MEDIA ARTS CONTROL ROOM / EDIT**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

		Spec. Ref.#
Program Type:	4	
Size Requirements:	450 SF	
<u>FINISHES</u> ¹ :	Spec. Ref.#	
Flooring:		
Vinyl composition tile, linoleum, VET, or sheet vinyl	096516 096500	
Base:		
Resilient base	096500	
Ceiling:		
Suspended, acoustical (9'-0" high)	095113	
Walls:		
Painted gypsum wallboard	092116 /099100	
Acoustical wall treatment	098000	
<u>LOOSE FURNISHINGS</u> :		
(6) Chairs		
Wastebasket		
		<u>FEATURES:</u>
		<u>Fixed Items:</u>
		10'-20' of equipment/work surface
		6'-8' of tack board
		Window
		6'-8' marker board
		8' of base cabinet
		123550 101100 085113 101100 123550
		<u>Fire Suppression:</u>
		Fire suppression system
		211000
		<u>Plumbing:</u>
		N/A
		<u>HVAC:</u>
		Supply/return air system
		Independent temperature control
		Div. 23 230923
		<u>Electrical:</u>
		Fluorescent lighting: overhead
		Illumination level: See Table 8600-4
		Dimmable incandescent task lighting on work surface
		265100
		Single level switching
		262726
		8 duplex receptacles
		262726
		Provisions for hard-wired equipment
		260519/260533
		Studio dimming system control panel
		265561
		Telecommunications Grounding
		270526/260526
		<u>Communications:</u>
		1 voice port and phone
		271513/273113
		2 video port
		271533/271543
		6 data ports
		271513
		Clock
		275313
		Central sound system
		275123
		Specialized A/V equipment
		<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.

ARTS AND COMMUNICATIONS - MEDIA ARTS PATHWAY

CHAPTER 6: CAREER-TECHNICAL SCHOOL

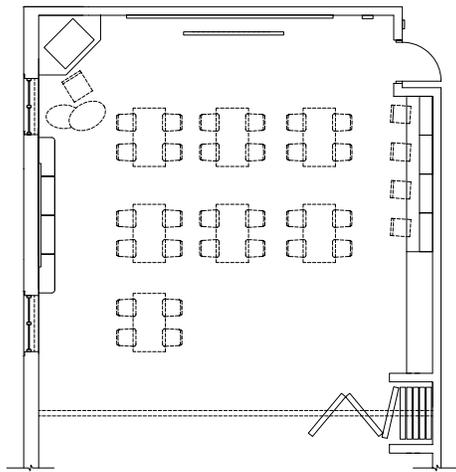
Vestibule

Program Type: 4			<u>FEATURES¹:</u>	Spec.
Size Requirements: 84 SF			<u>Fixed Items:</u>	<u>Ref.#</u>
Requirements:			Doors to receive light-tight perimeter seal	
			4' of tack board	101100
<u>FINISHES:</u>		Spec.	<u>Fire Suppression:</u>	
Flooring:		<u>Ref #</u>	Fire suppression system	211000
Vinyl composition tile, VET,		096500	<u>Plumbing:</u>	
Sheet vinyl, or linoleum		096516	N/A	
Base:			<u>HVAC:</u>	
Resilient		096500	Supply/return air system	Div. 23
Ceiling:			<u>Electrical:</u>	
Suspended acoustical (9'-0" high)		095113	Fluorescent lighting	265100
			Illumination level: See Table 8600-4	
Walls:			Single level switching	262726
Painted concrete masonry units		042000/	1 duplex receptacle	262726
		099100	Warning light to control room	265100
Acoustical wall treatment		098000	<u>Communications:</u>	
			Central sound system	275123
			<u>Electronic Safety and Security:</u>	
			Life safety devices per code	283111
			<u>Miscellaneous:</u>	
			N/A	
<u>ENVIRONMENTAL CONSIDERATIONS:</u>				
<ul style="list-style-type: none"> ▪ Wall minimum STC 50 ▪ Ceiling minimum CAC 35, NRC 0.70 				

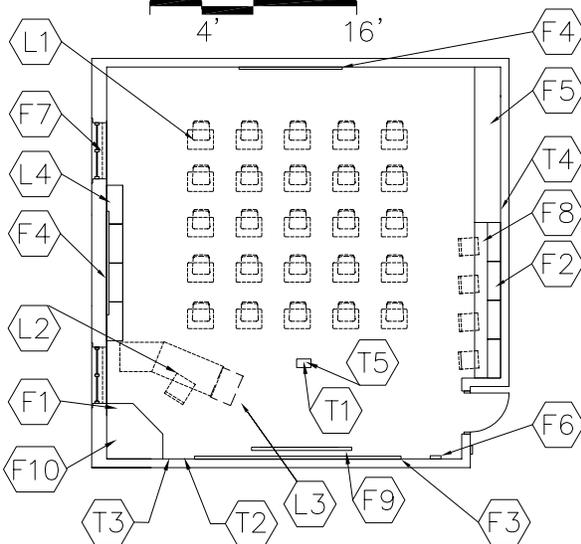
NOTES:

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

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CLASSROOM WITH OPTIONAL FOLDING WALL



TYPICAL CLASSROOM

CAPACITY: 25 students
SIZE: 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 related lab
- 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
- Proximity to main corridor to accommodate other students without interrupting lab

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

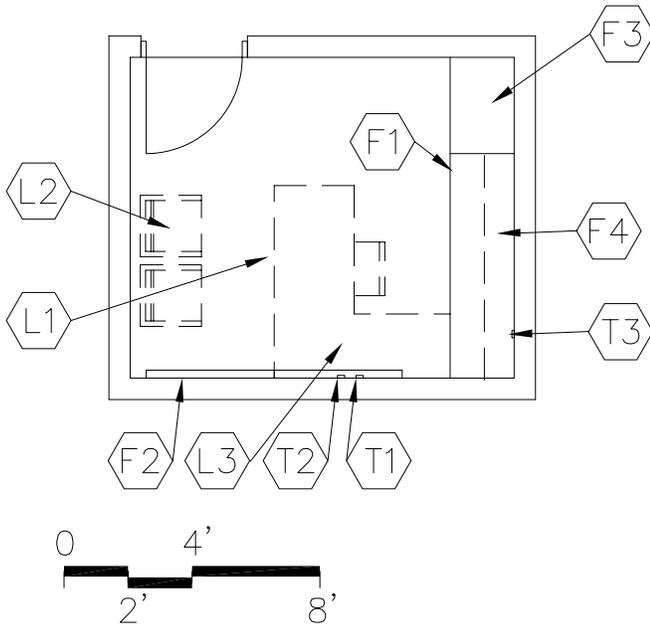
**RELATED CLASSROOM
CT-P4-2**

CHAPTER 6: CAREER-TECHNICAL HIGH SCHOOL

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

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Technology components may be placed in a separate small cabinet, or integrated in the other casework in the room.
3. Where appropriate, some casework may be mobile to add flexibility and become part of the loose furnishings.



PROGRAM ACTIVITIES:

- Private space for program instructor
- One-on-one conferences with academic instructors, students, etc.

SPATIAL RELATIONSHIPS:

- Near related lab
- Direct access to school circulation areas

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY: 1 - 3 persons
SIZE: 120 SF

NOTES:

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

**OFFICE
CT-P4-3**

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

NOTES:

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

PROGRAM ACTIVITIES:

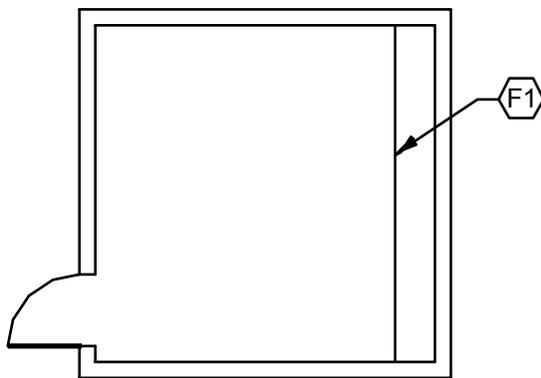
- Space for storage of lab equipment

SPATIAL RELATIONSHIPS:

- Near related lab

ENVIRONMENTAL CONSIDERATIONS:

N/A



CAPACITY:
SIZE:

N/A
200 SF

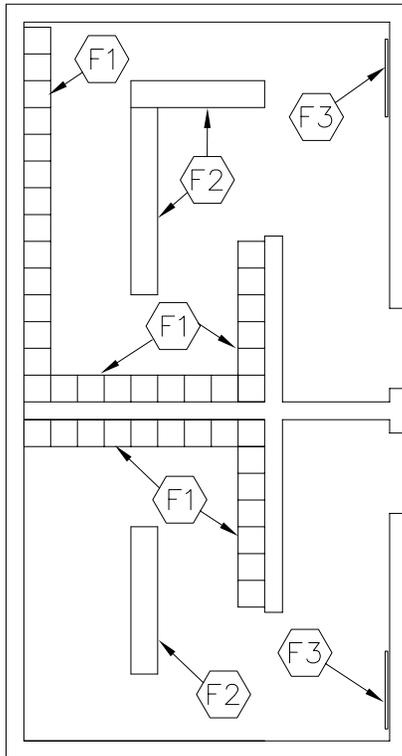
NOTES:

**STORAGE AREA
CT-P4-4**

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<u>Fixed Items¹:</u>	
Sealed concrete	033000	F1 8'-20' of open shelving	
		Depth may vary (fixed or loose)	123550
Base:		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Exposed structure	---	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>	
N/A		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		Duplex receptacles	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



50 total lockers

PROGRAM ACTIVITIES:

- Personal and health needs for the program Specific users.
- Changing of clothes and/or uniforms.
- Storage of personal items while students are in lab.

SPATIAL RELATIONSHIPS:

- Adjacent to related lab

ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting
- Sanitary and durable finishes.
- Environmental sound control
Wall minimum STC 40
Ceiling minimum CAC 35, NRC **0.70**

CAPACITY:
SIZE:

N/A
450 SF

NOTES:

1. Large and small changing areas are interchangeable for either males or females. Determination based on male/female ratio within each program.

**CHANGING ROOM
CT-P4-5**

<u>FINISHES</u> ¹ :	Spec. Ref.#	<u>FEATURES</u> ¹ :	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items</u> ¹ :	
Sealed concrete	033000	F1 Student lockers	105113
Optional: Vinyl composition tile, linoleum, or rubber	096500 096516	F2 Locker benches	062000
		F3 24" x 60" mirror	102813
<u>Base:</u>		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
<u>Ceiling:</u>		<u>Plumbing:</u>	
Suspended, acoustical with high impact hold down clips	095113	N/A	
<u>Walls:</u>		<u>HVAC:</u>	
Painted concrete masonry units 042000 / 099100		Supply/Return air system	Div. 23
		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		Individual temperature control	230923
<u>LOOSE FURNISHINGS</u>		<u>Electrical:</u>	
Wastebaskets		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		2 Duplex receptacles	262726
		Means of egress lighting per code	265100
		<u>Communications:</u>	
		Clock	275313
		Central Sound System	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

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Program Type 5

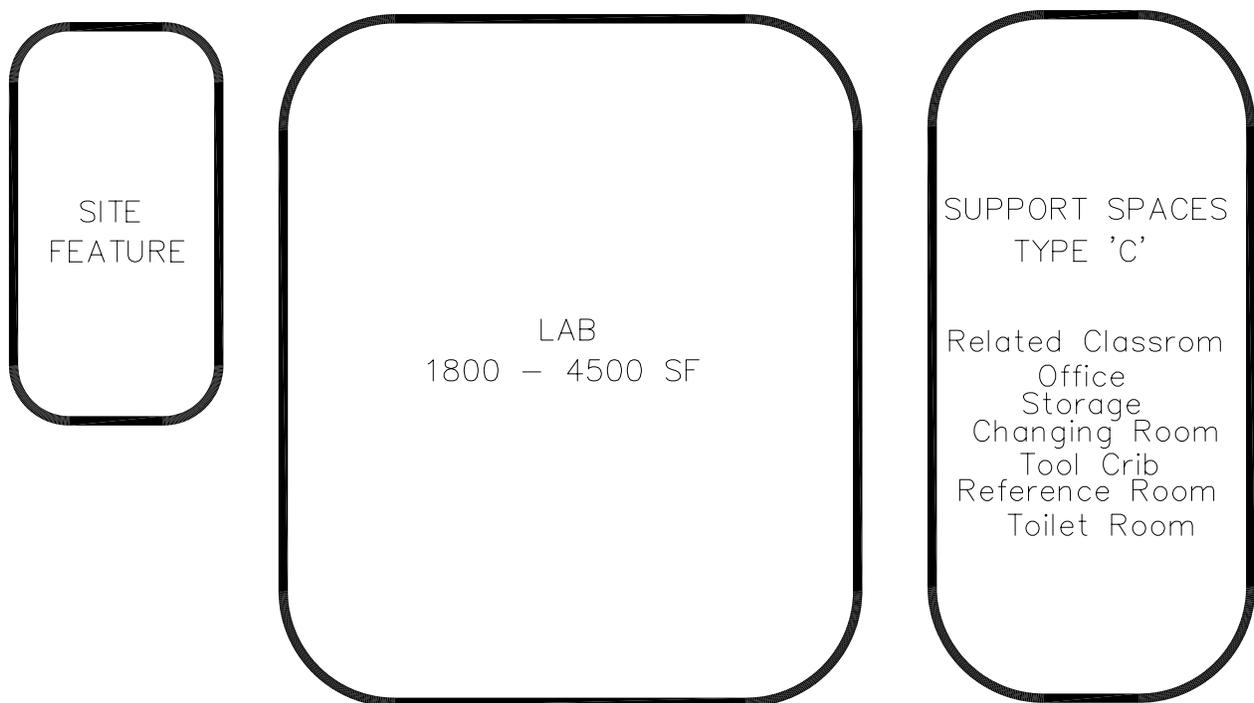
Description: Medium to large sized lab space with enhanced support space.

Lab space to be "high-bay" (**18'** min. clearance) with exposed building structure.

Lab to utilize standard construction with the following exception – lab floor slab to be 8" thick.

Support space to be finished with sealed concrete or vinyl composition tile, paint, and suspended acoustical ceiling. Lab may have possible site feature.

No air-conditioning of any spaces within Program Type 5.

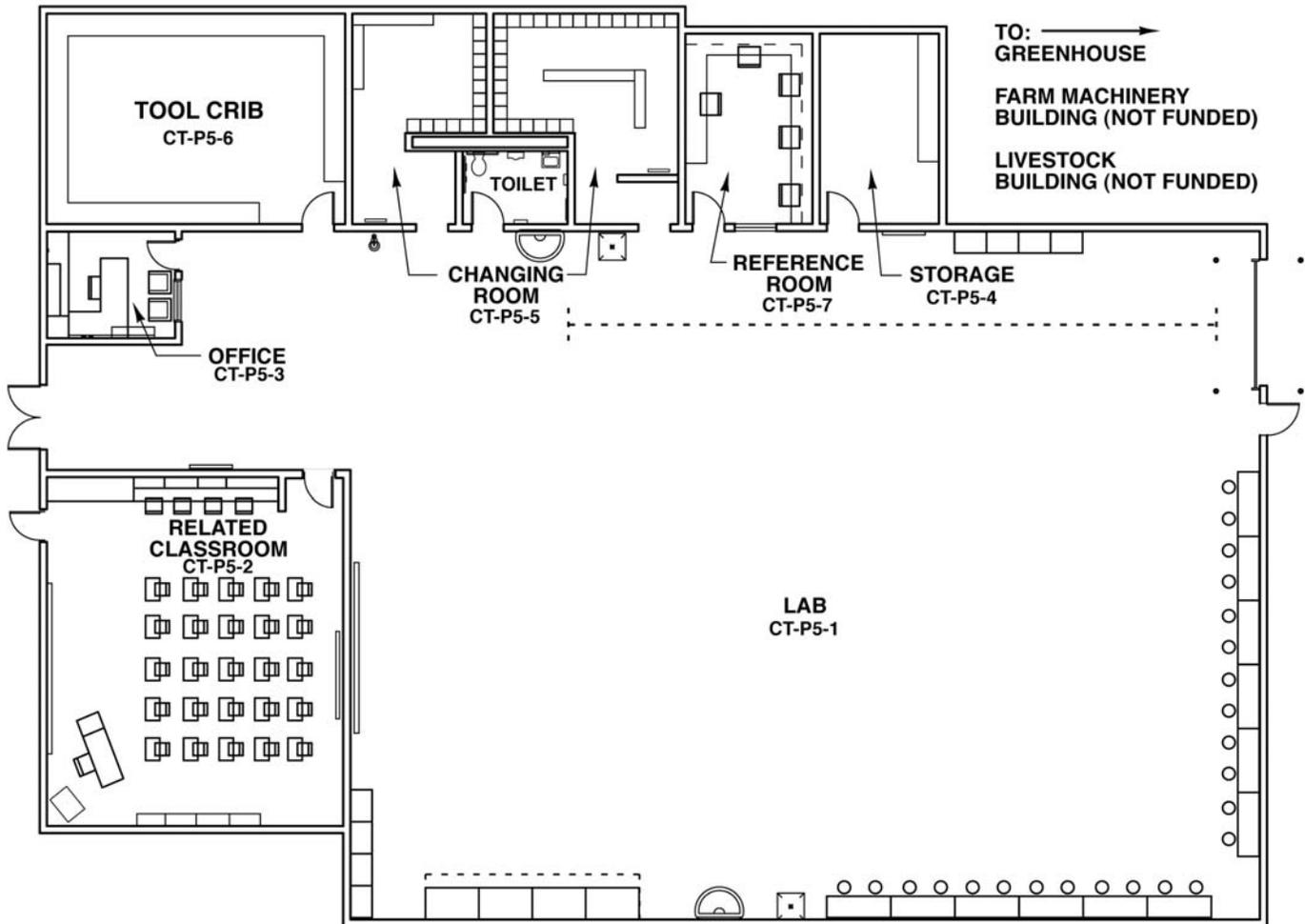
**NOTES:**

This is an example of how the Program Type 5 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 Program Type 5 space plates:

CT-P5-1	Lab
CT-P5-2	Related Classroom
CT-P5-3	Office
CT-P5-4	Storage
CT-P5-5	Changing Room
CT-P5-6	Tool Crib
CT-P5-7	Reference Room
CT-P5-8	Toilet Room

**PROGRAM TYPE 5
EXAMPLE**

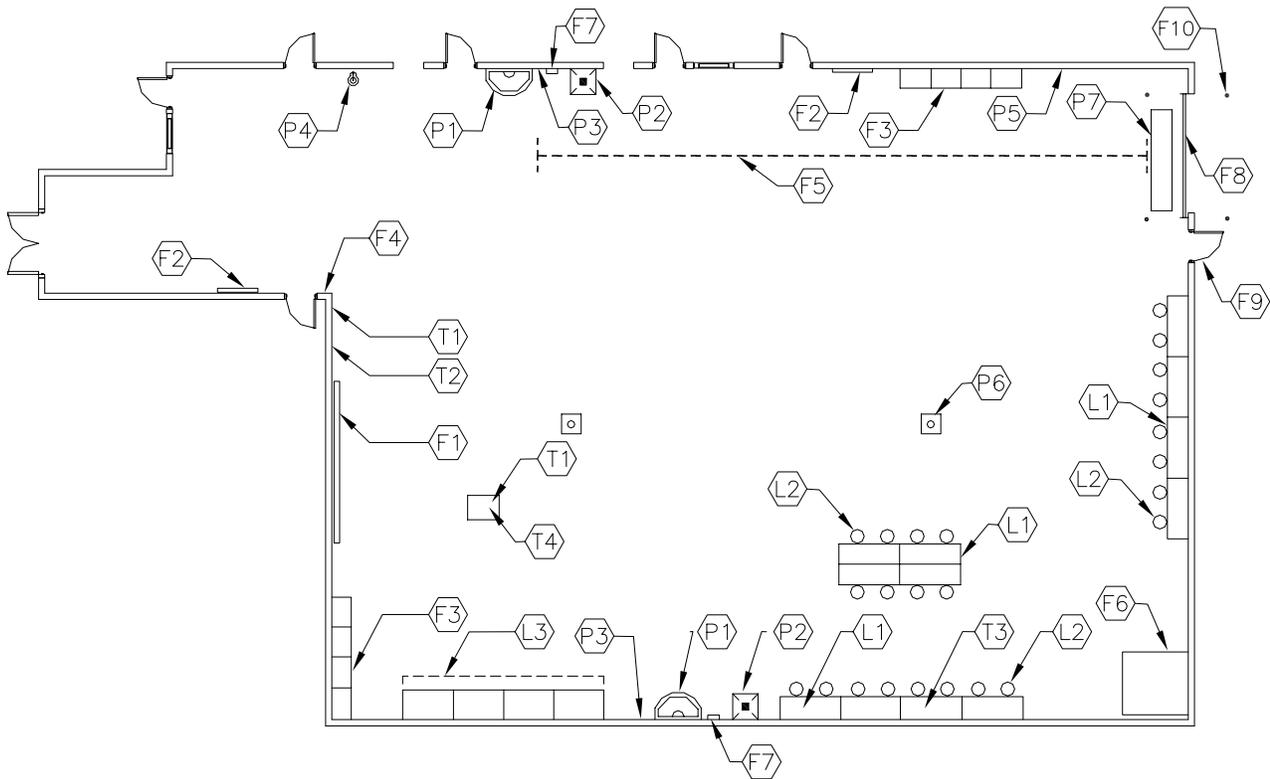


Program Type 5

This is an example to show the possible relationships of spaces for this program type.

NOTES:

1. See lab descriptions within this section for specific lab requirements.
2. See individual space plates at the end of this section for specific requirements.



<p>CAPACITY: 24 Students SIZE: 1,800 – 4,500 SF (see lab summaries for exact sizes) ANCILLARY SPACES: CT-P5-2 thru CT-P5-8</p>	
--	--

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.
2. Graphic plate is an example only. Other labs within this program are not drawn – refer to lab summaries within this program type for information on a particular lab.

PROGRAM ACTIVITIES:

- Large and small group instruction
- Group and individual work
- Demonstrations

SPATIAL RELATIONSHIPS:

- Near other related labs
- Adjacent to typical support spaces
- Proximity to large group restrooms
- Located away from noisy or public activities
- Proximity to core academic area and common use areas
- Flexibility of space

ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting with 80% visual comfort probability level.
- Optional: Natural light opening equal to 5% minimum of floor area, with an operable vent
- Environmental sound control -
walls minimum STC 50
ceiling minimum CAC 35, NRC **0.70**
- Flexibility of space

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Loose Furnishings: Refer to Lab Profiles within this section.
3. Loose Furnishings, fixed equipment, utility locations, and general footprint of room shown represent one of many possible arrangements.

<u>PROGRAM DESCRIPTION:</u>	Organized subject matter and learning experiences related to the physical distribution of products including freight transportation and public warehousing. Also included are tasks performed by employees and management in places of business that are engaged primarily in the selling of goods to retailers, and to industrial, commercial, institutional, and professional users, or bringing buyers and sellers together.	<u>FEATURES¹:</u>	Spec.
Program Type:	5	<u>Fixed Items:</u>	<u>Ref.#</u>
Size Requirements:	3,000 SF Lab	16' of chalk/marker board	101100
Lab Requirements:	Spec.	8' of tack board	101100
<u>FINISHES:</u>	<u>Ref #</u>	24' of tall storage cabinets	123550
Flooring:	033000	Pencil sharpener support	062000
Sealed concrete		(3) Paper towel dispensers	102813
Ceiling:	099100	40' of high-bay pallet storage system/shelving	105613
Painted, exposed structure		12'x14' motorized overhead sectional door to exterior	083613
Walls:	042000/099100	3'x7' hollow metal service door to exterior	081113
Painted concrete masonry units		Steel bollards at overhead door, both sides	055000
<u>LOOSE FURNISHINGS:</u>	(6) Workbenches with heavy-duty metal tops	<u>Fire Suppression:</u>	211000
(24) Stools or chairs	Wastebasket	Fire suppression system	
Pencil sharpener	<u>Miscellaneous:</u>	<u>Plumbing:</u>	1 washfountain (minimum)
N/A		2 utility sinks (minimum)	224000
<u>Miscellaneous:</u>	N/A	2 hose bibbs (minimum)	224000
		Safety shower/eyewash	224000
		2 floor drains	224000
		1 trench drain	224000
		Plumbing connections	221116/221119/224000
<u>NOTES:</u>	1. Finishes/Features: Refer to Chapter 9 for specification references.	<u>HVAC:</u>	Supply/return air system
		Independent temperature control	Div. 23
		<u>Electrical:</u>	230923
		High intensity lighting <i>or</i> <i>fluorescent lighting</i>	265100
		Illumination level: See Table 8600-4	Multilevel switching
		30 duplex receptacles (minimum)	262726
		Double duplex receptacle adjacent to each data and video port	262726
		(2) 220 volt receptacles	262726
		<u>Communications:</u>	1 video port and video display device
		1 voice port and phone	271533/271543/274119
		4 data ports	271513/273113
		Clock	271523
		Central sound system	275313
		<u>Electronic Safety and Security:</u>	275123
		Life safety devices per code	283111

**AGRIBUSINESS AND PRODUCTION SYSTEMS
CT-P5-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>PROGRAM DESCRIPTION:</u>	Programs provide instruction on the principles and practices of food production allowing students to develop careers in agriculture engineering, crop production and consultation, agricultural journalism, livestock production and consultation, and agricultural supply and sales. The learning activities focus on resource analysis, accounting, financing, resource acquisition, performance records, marketing, crop and animal production, agricultural engineering, and leadership.	<u>FEATURES¹:</u>	Spec.
Program Type:	5	<u>Fixed Items:</u>	<u>Ref.#</u>
Size Requirements:	4,500 SF Lab	F1 16' of chalk/marker board	101100
Lab Requirements:	Spec.	F2 8' of tack board	101100
<u>FINISHES:</u>	<u>Ref #</u>	F3 24' of tall storage cabinets	123550
Flooring:	033000	F4 Pencil sharpener support	062000
Sealed concrete		F5 Overhead chain hoist	412223
Ceiling:		F7 (4) Paper towel dispensers	102813
Painted, exposed structure	099100	F8 12'x14' motorized overhead sectional door to exterior	083613
Walls:		F9 3'x7' hollow metal service door to exterior	081113
Painted concrete masonry units	042000/ 099100	F10 Steel bollards at overhead door, both sides	055000
<u>LOOSE FURNISHINGS:</u>		<u>Fire Suppression:</u>	
L1 (12) Workbenches with heavy-duty metal tops		Fire suppression system	211000
L2 (24) Stools or chairs		<u>Plumbing:</u>	
L3 (4) Welding tables		P1 2 washfountains (minimum)	224000
Wastebasket		P2 2 utility sinks (minimum)	224000
Pencil sharpener		P3 2 hose bibbs (minimum)	224000
<u>SITE FEATURES:</u>		P4 Safety shower/eyewash	224500
Greenhouse - 1000 SF	133413	P5 6 compressed air connections	221513
Concrete flooring (with drains)		P6 2 floor drains	224000
Minimum of one 8'x10' overhead door		P7 1 trench drain	224000
Provide electrical, plumbing, and heating/ventilation systems as per greenhouse manufacturer's recommendations		Plumbing connections	221116/221119/224000
Minimum of 2 hose bibs		<u>HVAC:</u>	
Fire suppression system if required		Supply/return air system	Div. 23
Plan for the following if required by school curriculum requirements:		Independent temperature control	230923
Farm machinery building		Welding hood exhaust	Div. 23
Livestock building		<u>Electrical:</u>	
		High intensity lighting or fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		Multilevel switching	262726
		30 duplex receptacles (minimum)	262726
		Double duplex receptacle adjacent to each data and video port	262726
		(6) 220 volt receptacles	262726
		<u>Communications:</u>	
		T1 1 video port and video display device	271533/271543/274119
		T2 1 voice port and phone	271513/273113
		T3 4 data ports	271513
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u> N/A	

NOTES:

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

		Spec. Ref.#
<u>PROGRAM DESCRIPTION:</u>		
Classroom and shop learning experiences concerned with the theory of electrical circuitry, simple gearing, linkages, and lubrication in the operation, maintenance, and repair of components, including relays, time switches, pumps, and agitators, used in appliances such as washers, dryers, vacuum cleaners, toasters, water heaters, and stoves. Related training is provided in the use of tools, test equipment, service manuals, and in making cash estimates for repairs.		
Program Type:	5	
Size Requirements:	1,800 SF Lab	
Lab Requirements:		
<u>FINISHES:</u>	Spec. <u>Ref #</u>	
Flooring:		
Sealed concrete	033000	
Ceiling:		
Painted, exposed structure	099100	
Walls:		
Painted concrete masonry units	042000/ 099100	
<u>LOOSE FURNISHINGS:</u>		
(12) Workbenches with heavy-duty metal tops		
(24) Stools or chairs		
Wastebasket		
Pencil sharpener		
<u>Miscellaneous:</u>		
N/A		
<u>FEATURES¹:</u>		
<u>Fixed Items:</u>		
16' of chalk/marker board		101100
8' of tack board		101100
24' of tall storage cabinets		123550
Pencil sharpener support		062000
(4) Paper towel dispensers		102813
12'x14' motorized overhead sectional door to exterior		083613
3'x7' hollow metal service door to exterior		081113
Steel bollards at overhead door, both sides		055000
<u>Fire Suppression:</u>		
Fire suppression system		211000
<u>Plumbing:</u>		
2 washfountains (minimum)		224000
2 utility sinks (minimum)		224000
2 hose bibbs (minimum)		224000
Safety shower/eyewash		224000
2 floor drains		224000
1 trench drain		224000
6 compressed air connections		221513
Plumbing connections		221116/221119/224000
<u>HVAC:</u>		
Supply/return air system		Div. 23
Independent temperature control		230923
<u>Electrical:</u>		
High intensity lighting or fluorescent lighting		265100
Illumination level: See Table 8600-4		
Multilevel switching		262726
30 duplex receptacles (minimum)		262726
Double duplex receptacle adjacent to each data and video port		262726
(2) 220 volt receptacles		262726
<u>Communications:</u>		
1 video port and video display device		271533/271543/274119
1 voice port and phone		271513/273113
4 data ports		271513
Clock		275313
Central sound system		275123
<u>Electronic Safety and Security:</u>		
Life safety devices per code		283111

NOTES:

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

**AUTO SPECIALIZATION
CT-P5-1**

<u>PROGRAM DESCRIPTION:</u>	Learning experiences that involve more detailed training in the adjustment and repair of the automobile, including the cooling system, transmission, fuel system, brake system, and other units to provide greater proficiency in the servicing of selected components.	<u>FEATURES¹:</u>	Spec.
Program Type:	5	<u>Fixed Items:</u>	<u>Ref.#</u>
Size Requirements:	3,500 SF Lab	16' of chalk/marker board	101100
Lab Requirements:		8' of tack board	101100
		24' of tall storage cabinets	123550
		Pencil sharpener support	062000
		(4) Paper towel dispensers	102813
		12'x14' motorized overhead	
		sectional door to exterior	083613
		3'x7' hollow metal service door	
		to exterior	081113
		Steel bollards at overhead door,	
		both sides	055000
<u>FINISHES:</u>	Spec.	<u>Fire Suppression:</u>	<u>Ref #</u>
Flooring:		Fire suppression system	211000
Sealed concrete	033000	<u>Plumbing:</u>	
		2 washfountains (minimum)	224000
Ceiling:		2 utility sinks (minimum)	224000
Painted, exposed structure	099100	2 hose bibbs (minimum)	224000
		Safety shower/eyewash	224000
Walls:		2 floor drains	224000
Painted concrete masonry units	042000/	1 trench drain	224000
	099100	6 compressed air connections	221513
		Plumbing connections	
		221116/221119/224000	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
(8) Workbenches with heavy-duty metal tops		Supply/return air system	Div. 23
(24) Stools or chairs		Independent temperature control	230923
Wastebasket		Vehicle exhaust system	Div. 23
Pencil sharpener		<u>Electrical:</u>	
		High intensity lighting or	265100
		fluorescent lighting	
		Illumination level: See Table 8600-4	
		Multilevel switching	262726
		30 duplex receptacles (minimum)	262726
		Double duplex receptacle adjacent to	
		each data and video port	262726
		(6) 220 volt receptacles	262726
		<u>Communications:</u>	
		1 video port and video display device	
		271533/271543/274119	
		1 voice port and phone	271513/273113
		4 data ports	271513
		Clock	275313
		Central sound system	275123
		<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.

		Spec. Ref.#
<u>PROGRAM DESCRIPTION:</u>		
Specialized classroom and laboratory experiences concerned with the cutting, chipping, and fixing in position of brick and concrete block. Included is instruction in the care and use of tools, equipment, and materials for the preparation and performance of masonry construction; the selection and preparation of materials used in the laying of brick and block; and training in blueprint reading, record keeping, estimating, and safety.		
Program Type:	5	
Size Requirements:	3,500 SF Lab	
Lab Requirements:		
<u>FINISHES:</u>	<u>Spec.</u> <u>Ref #</u>	
Flooring:		
Sealed concrete	033000	
Ceiling:		
Painted, exposed structure	099100	
Walls:		
Painted concrete masonry units	042000/ 099100	
<u>LOOSE FURNISHINGS:</u>		
(12) Workbenches with heavy-duty metal tops		
(24) Stools or chairs		
Wastebasket		
Pencil sharpener		
<u>Miscellaneous:</u>		
N/A		
<u>FEATURES¹:</u>		
<u>Fixed Items:</u>		
16' of chalk/marker board		101100
8' of tack board		101100
24' of tall storage cabinets		123550
Pencil sharpener support		062000
(4) Paper towel dispensers		102813
12'x14' motorized overhead sectional door to exterior		083613
3'x7' hollow metal service door to exterior		081113
Steel bollards at overhead door, both sides		055000
<u>Fire Suppression:</u>		
Fire suppression system		211000
<u>Plumbing:</u>		
2 washfountains (minimum)		224000
2 utility sinks (minimum)		224000
2 hose bibbs (minimum)		224000
Safety shower/eyewash		224000
2 floor drains		224000
1 trench drain		224000
4 compressed air connections		221500
Plumbing connections		221116/221119/224000
<u>HVAC:</u>		
Supply/return air system		Div. 23
Independent temperature control		230923
<u>Electrical:</u>		
High intensity lighting or fluorescent lighting		265100
Illumination level: See Table 8600-4		
Multilevel switching		262726
30 duplex receptacles (minimum)		262726
Double duplex receptacle adjacent to each data and video port		262726
(2) 220 volt receptacles		262726
<u>Communications:</u>		
1 video port and video display device		271533/271543/274119
1 voice port and phone		271513/273113
4 data ports		271513
Clock		275313
Central sound system		275123
<u>Electronic Safety and Security:</u>		
Life safety devices per code		283111

NOTES:

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

**BUILDING AND PROPERTY MAINTENANCE
BUILDING TECHNOLOGY
CT-P5-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>PROGRAM DESCRIPTION:</u>		Spec.
<u>FEATURES¹:</u>		<u>Ref.#</u>
Organized learning experiences in the classroom and laboratory concerned with the skills necessary to keep the physical structure of an office building, factory, apartment building, house, or similar structure in good repair. Included is instruction in carpentry; roofing application and repair; ceramic tile and masonry application and repair; electrical installation and repair; painting and wallpapering; and plumbing.		
Program Type:	5	
Size Requirements:	3,000 SF Lab	
Lab Requirements:		
<u>FINISHES:</u>	Spec.	
<u>Flooring:</u>	<u>Ref #</u>	
Sealed concrete	033000	
<u>Ceiling:</u>		
Painted, exposed structure	099100	
<u>Walls:</u>		
Painted concrete masonry units	042000/ 099100	
<u>LOOSE FURNISHINGS:</u>		
(12) Workbenches with heavy-duty metal tops		
(24) Stools or chairs		
(2) Welding tables		
Wastebasket		
Pencil sharpener		
<u>Electronic Safety and Security:</u>		
Life safety devices per code	283111	
<u>Miscellaneous:</u>		
N/A		
	<u>Fixed Items:</u>	
	16' of chalk/marker board	101100
	8' of tack board	101100
	24' of tall storage cabinets	123550
	Pencil sharpener support	062000
	(3) Paper towel dispensers	102813
	12'x14' motorized overhead sectional door to exterior	083613
	3'x7' hollow metal service door to exterior	081113
	Steel bollards at overhead door, both sides	055000
	<u>Fire Suppression:</u>	
	Fire suppression system	211000
	<u>Plumbing:</u>	
	1 washfountain (minimum)	224000
	2 utility sinks (minimum)	224000
	2 hose bibbs (minimum)	224000
	Safety shower/eyewash	224000
	2 floor drains	224000
	1 trench drain	224000
	6 compressed air connections	221500
	2 natural gas connections	226313
	Master gas shut-off valve	226313
	Plumbing connections	221116/221119/224000
	<u>HVAC:</u>	
	Supply/return air system	Div. 23
	Independent temperature control	230923
	Welding hood and exhaust	Div. 23
	<u>Electrical:</u>	
	High intensity lighting or fluorescent lighting	265100
	Illumination level: See Table 8600-4	
	Multilevel switching	262726
	30 duplex receptacles (minimum)	262726
	Double duplex receptacle adjacent to each data and video port	262726
	(2) 220 volt receptacles	262726
	(2) 277 volt receptacles	262726
	(2) 408 volt receptacles	262726
	<u>Communications:</u>	
	1 video port and video display device	271533/271543/274119
	1 voice port and phone	271513/273113
	4 data ports	271513
	Clock	275313
	Central sound system	275123

NOTES:

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

**CUSTODIAL SERVICES
CT-P5-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p><u>PROGRAM DESCRIPTION:</u> Organized learning experiences in the classroom and laboratory concerned with the skills necessary to provide all phases of care and cleaning of buildings; including fixtures, furnishings, and building interiors. Included is instruction in the care and maintenance of such materials as linoleum, plastic, terrazzo, tile, and wood floors; rugs and carpet; plastic, wood panel, paint, and synthetic wall coatings; and the use and care of hand and power tools. Additional emphasis is placed on (1) characteristics of various cleaning agents and protective coatings – including their reactions on surfaces – and procedures for applying them; (2) sanitation and disinfectants; (3) work scheduling; and (4) purchase of custodial supplies.</p> <p>Program Type: 5</p> <p>Size Requirements: 2,500 SF Lab</p> <p>Lab Requirements:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 80%;"></td> <td style="text-align: right; vertical-align: bottom;">Spec. <u>Ref #</u></td> </tr> <tr> <td><u>FINISHES:</u></td> <td></td> </tr> <tr> <td>Flooring:</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Sealed concrete</td> <td style="text-align: right;">033000</td> </tr> <tr> <td>Ceiling:</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Painted, exposed structure</td> <td style="text-align: right;">099100</td> </tr> <tr> <td>Walls:</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Painted concrete masonry units</td> <td style="text-align: right;">042000/ 099100</td> </tr> <tr> <td><u>LOOSE FURNISHINGS:</u></td> <td></td> </tr> <tr> <td>(12) Workbenches with heavy-duty metal tops</td> <td></td> </tr> <tr> <td>(24) Stools or chairs</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Wastebasket</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Pencil sharpener</td> <td></td> </tr> </table>		Spec. <u>Ref #</u>	<u>FINISHES:</u>		Flooring:		Sealed concrete	033000	Ceiling:		Painted, exposed structure	099100	Walls:		Painted concrete masonry units	042000/ 099100	<u>LOOSE FURNISHINGS:</u>		(12) Workbenches with heavy-duty metal tops		(24) Stools or chairs		Wastebasket		Pencil sharpener		<p><u>FEATURES¹:</u></p> <p><u>Fixed Items:</u></p> <table style="width: 100%; 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NOTES:

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

**ELECTRICAL TRADES
CT-P5-1**

<u>PROGRAM DESCRIPTION:</u>	Specialized classroom and laboratory experiences concerned with the layout, assembly, installation, testing, and maintenance of electrical fixtures and apparatus, and the wiring used in electrical systems. Instruction is provided in worksite safety; electrical principles; the application of codes and standards; residential, commercial, and industrial installations including motors and specialized systems; and the reading, interpretation, and application of blueprints and wiring diagrams. A one year program option is available with an exit in residential wiring, or with an exit in commercial/industrial wiring upon the recommendation of the local advisory committee and the approval of the local board of education.	<u>FEATURES¹:</u>	Spec.
Program Type:	5	<u>Fixed Items:</u>	<u>Ref.#</u>
Size Requirements:	3,000 SF Lab	16' of chalk/marker board 101100 8' of tack board 101100 24' of tall storage cabinets 123550 Pencil sharpener support 062000 (3) Paper towel dispensers 102813 12'x14' motorized overhead sectional door to exterior 083613 3'x7' hollow metal service door to exterior 081113 Steel bollards at overhead door, both sides 055000	
Lab Requirements:		<u>Fire Suppression:</u>	
		Fire suppression system 211000	
		<u>Plumbing:</u>	
		1 washfountain (minimum) 224000 2 utility sinks (minimum) 224000 2 hose bibbs (minimum) 224000 Safety shower/eyewash 224000 2 floor drains 224000 1 trench drain 224000 Plumbing connections 221116/221119/224000	
<u>FINISHES:</u>		<u>HVAC:</u>	
Flooring:		Supply/return air system Div. 23	
Sealed concrete	Spec. <u>Ref #</u> 033000	Independent temperature control 230923	
Ceiling:		<u>Electrical:</u>	
Painted, exposed structure	099100	High intensity lighting or 265100	
		illumination level: See Table 8600-4	
Walls:		Multilevel switching 262726	
Painted concrete masonry units	042000/ 099100	30 duplex receptacles (minimum) 262726	
		Double duplex receptacle adjacent to	
		each data and video port 262726	
		208v 3-phase service 262726	
		480v 3-phase service 262726	
		100 amp 208v 3-phase bus duct 262726	
		100 amp 480v 3-phase bus duct 262726	
		Fiber optic service 262726	
		Cat 5 service 262726	
		<u>Communications:</u>	
		1 video port and video display device 271533/271543/274119	
		1 voice port and phone 271513/273113	
		4 data ports 271513	
		Clock 275313	
		Central sound system 275123	
<u>LOOSE FURNISHINGS:</u>			
(12) Workbenches with heavy-duty non-conductive tops			
(24) Stools or chairs			
Wastebasket			
Pencil sharpener			
<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.

ENVIRONMENTAL CONTROLS TECHNOLOGIES

CHAPTER 6: CAREER-TECHNICAL SCHOOL

CT-P5-1

<u>PROGRAM DESCRIPTION:</u>		<u>FEATURES¹:</u>	Spec.
Classroom and laboratory experiences that enable the student to become proficient in the installation, repair, and maintenance of residential, commercial, and industrial air-conditioning systems. Included is instruction related to electrical principles; electric motors; controls; refrigeration, heating and air-conditioning principles and practices; and piping systems.		<u>Fixed Items:</u>	<u>Ref.#</u>
Program Type:	5	16' of chalk/marker board	101100
Size Requirements:	3,000 SF Lab	8' of tack board	101100
Lab Requirements:		24' of tall storage cabinets	123550
		Pencil sharpener support	062000
		(3) Paper towel dispensers	102813
		12'x14' motorized overhead sectional door to exterior	083613
		3'x7' hollow metal service door to exterior	081113
		Steel bollards at overhead door, both sides	055000
		<u>Fire Suppression:</u>	
		Fire suppression system	211000
		<u>Plumbing:</u>	
<u>FINISHES:</u>	Spec. <u>Ref #</u>	1 washfountain (minimum)	224000
Flooring:		2 utility sinks (minimum)	224000
Sealed concrete	033000	2 hose bibbs (minimum)	224000
Ceiling:		Safety shower/eyewash	224000
Painted, exposed structure	099100	2 floor drains	224000
Painted, exposed structure	099100	1 trench drain	224000
Walls:		6 natural gas connections	226313
Painted concrete masonry units	042000/ 099100	Master gas shut-off valve	226313
		Plumbing connections	221116/221119/224000
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
(8) Workbenches with heavy-duty metal tops		Supply/return air system	Div. 23
(24) Stools or chairs		Independent temperature control	230923
(4) Welding tables		Welding hood and exhaust	Div. 23
Wastebasket		<u>Electrical:</u>	
Pencil sharpener		High intensity lighting or fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		Multilevel switching	262726
		30 duplex receptacles (minimum)	262726
		Double duplex receptacle adjacent to each data and video port	262726
		(2) 220 volt receptacles	262726
		(2) 227 volt receptacles	262726
		(2) 408 volt receptacles	262726
		<u>Communications:</u>	
		1 video port and video display device	271533/271543/274119
		1 voice port and phone	271513/273113
		4 data ports	271513
		Clock	275313
		Central sound system	275123
<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.

HEAVY EQUIPMENT (Construction)
CT-P5-1

<u>PROGRAM DESCRIPTION:</u>	Classroom and practical work experiences concerned with the operation, maintenance, and repair of heavy-duty construction equipment, such as bulldozers, backhoes, cranes, graders, tractors, concrete mixers, crawler-mounted shovels, trailer-mounted compressors, and the gasoline or diesel engines powering the equipment.	<u>FEATURES¹:</u>	Spec.
Program Type:	5	<u>Fixed Items:</u>	<u>Ref.#</u>
Size Requirements:	4,500 SF Lab	16' of chalk/marker board 101100 8' of tack board 101100 24' of tall storage cabinets 123550 Pencil sharpener support 062000 (3) Paper towel dispensers 102813 12'x14' motorized overhead sectional door to exterior 083613 3'x7' hollow metal service door to exterior 081113 Steel bollards at overhead door, both sides 055000	
Lab Requirements:		<u>Fire Suppression:</u>	
<u>FINISHES:</u>	Spec.	Fire suppression system 211000	
Flooring:	<u>Ref #</u>	<u>Plumbing:</u>	
Sealed concrete	033000	1 washfountain (minimum) 224000 2 utility sinks (minimum) 224000 2 hose bibbs (minimum) 224000 Safety shower/eyewash 224000 2 floor drains 224000 1 trench drain 224000 6 compressed air connections 221500 Plumbing connections 221116/221119/224000	
Ceiling:		<u>HVAC:</u>	
Painted, exposed structure	099100	Supply/return air system Div. 23 Independent temperature control 230923	
Walls:		<u>Electrical:</u>	
Painted concrete masonry units	042000/ 099100	High intensity lighting or 265100 fluorescent lighting Illumination level: See Table 8600-4 Multilevel switching 262726 30 duplex receptacles (minimum) 262726 Double duplex receptacle adjacent to each data and video port 262726 (2) 220 volt receptacles 262726	
<u>LOOSE FURNISHINGS:</u>		<u>Communications:</u>	
(8) Workbenches with heavy-duty metal tops		1 video port and video display device 271533/271543/274119	
(24) Stools or chairs		1 voice port and phone 271513/273113	
Wastebasket		4 data ports 271513	
Pencil sharpener		Clock 275313	
<u>Miscellaneous:</u>		Central sound system 275123	
N/A		<u>Electronic Safety and Security:</u>	
		Life safety devices per code 283111	

NOTES:

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

INDUSTRIAL MAINTENANCE AND REPAIR

CHAPTER 6: CAREER-TECHNICAL SCHOOL

CT-P5-1

<u>PROGRAM DESCRIPTION:</u>		<u>FEATURES¹:</u>	Spec.
Organized learning experiences in the classroom and shop concerned with the maintenance of machinery and mechanical equipment of an industrial plant or factory. Inspection, disassembly, repair, and reassembly of machines and equipment is included in the training experience. Skill training in the use of tools in several trades is also included.		<u>Fixed Items:</u>	<u>Ref.#</u>
Program Type:	5	16' of chalk/marker board	101100
Size Requirements:	3,500 SF Lab	8' of tack board	101100
Lab Requirements:		24' of tall storage cabinets	123550
		Pencil sharpener support	062000
		(4) Paper towel dispensers	102813
		12'x14' motorized overhead sectional door to exterior	083613
		3'x7' hollow metal service door to exterior	081113
		Steel bollards at overhead door, both sides	055000
		<u>Fire Suppression:</u>	
		Fire suppression system	211000
		<u>Plumbing:</u>	
		2 washfountains (minimum)	224000
		2 utility sinks (minimum)	224000
		2 hose bibbs (minimum)	224000
		Safety shower/eyewash	224000
		2 floor drains	224000
		1 trench drain	224000
		6 compressed air connections	221500
		Plumbing connections	221116/221119/224000
		<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Independent temperature control	230923
		Welding hood and exhaust	Div. 23
		<u>Electrical:</u>	
		High intensity lighting or fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		Multilevel switching	262726
		30 duplex receptacles (minimum)	262726
		Double duplex receptacle adjacent to each data and video port	262726
		(4) 220 volt receptacles	262726
		208v 3-phase service	262726
		480v 3-phase service	262726
		<u>Communications:</u>	
		1 video port and video display device	271533/271543/274119
		1 voice port and phone	271513/273113
		4 data ports	271513
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
<u>FINISHES:</u>	Spec.		
	<u>Ref #</u>		
Flooring:			
Sealed concrete	033000		
Ceiling:			
Painted, exposed structure	099100		
Walls:			
Painted concrete masonry units	042000/099100		
<u>LOOSE FURNISHINGS:</u>			
(12) Workbenches with heavy-duty metal tops			
(24) Stools or chairs			
(4) Welding tables			
Wastebasket			
Pencil sharpener			
<u>Miscellaneous:</u>			
N/A			

NOTES:

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

INTERIOR DESIGN AND APPLICATION
CT-P5-1

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>PROGRAM DESCRIPTION:</u>	Specialized classroom and laboratory experiences concerned with the preparation and finishing of exterior and interior surfaces by the application of protective or decorative coating materials, such as lacquer, paint, and wallpapers. Included is instruction in the scraping, burning, or sanding surfaces; making, mixing, and matching paints and colors; applying coatings with brush, roller, or spray-gun; and by cutting, pasting, and hanging wallpaper. Emphasis is on the selection, use, and storage of materials in compliance with all state and federal environmental regulations.	<u>FEATURES¹:</u>	Spec.
Program Type:	5	<u>Fixed Items:</u>	<u>Ref.#</u>
Size Requirements:	3,000 SF Lab	16' of chalk/marker board	101100
Lab Requirements:	Spec.	8' of tack board	101100
<u>FINISHES:</u>	<u>Ref #</u>	24' of tall storage cabinets	123550
Flooring:	033000	Pencil sharpener support	062000
Sealed concrete		(4) Paper towel dispensers	102813
Ceiling:	099100	12'x14' motorized overhead	
Painted, exposed structure		sectional door to exterior	083613
Walls:	042000/	3'x7' hollow metal service door	081113
Painted concrete masonry units	099100	to exterior	
<u>LOOSE FURNISHINGS:</u>		Steel bollards at overhead door,	055000
(12) Workbenches with heavy-duty metal tops		both sides	
(24) Stools or chairs		<u>Fire Suppression:</u>	
Wastebasket		Fire suppression system	211000
Pencil sharpener		<u>Plumbing:</u>	
<u>Miscellaneous:</u>	N/A	2 washfountains (minimum)	224000
		2 utility sinks (minimum)	224000
		2 hose bibbs (minimum)	224000
		Safety shower/eyewash	224000
		2 floor drains	224000
		1 trench drain	224000
		Plumbing connections	221116/221119/224000
		<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Independent temperature control	230923
		<u>Electrical:</u>	
		High intensity lighting or	265100
		fluorescent lighting	
		Illumination level: See Table 8600-4	
		Multilevel switching	262726
		30 duplex receptacles (minimum)	262726
		Double duplex receptacle adjacent to	
		each data and video port	262726
		<u>Communications:</u>	
		1 video port and video display device	271533/271543/274119
		1 voice port and phone	271513/273113
		4 data ports	271513
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111

NOTES:

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

MANUFACTURING OCCUPATIONS

CT-P5-1

CHAPTER 6: CAREER-TECHNICAL SCHOOL

PROGRAM DESCRIPTION: Specialized learning experiences to prepare a semi-skilled worker to run only one machine; e.g., lathe, grinder, drill press, milling machine, or shaper. Could include metal fabrication and assembly. Instruction could include layout; sequencing of operating fabricating machines; positioning, alignment, fitting, and welding.		FEATURES¹:	Spec. Ref.#
Program Type:	5	Fixed Items:	
Size Requirements:	4,500 SF Lab	16' of chalk/marker board	101100
Lab Requirements:		8' of tack board	101100
		24' of tall storage cabinets	123550
		Pencil sharpener support	062000
		(3) Paper towel dispensers	102813
		12'x14' motorized overhead sectional door to exterior	083613
		3'x7' hollow metal service door to exterior	081113
		Steel bollards at overhead door, both sides	055000
		Fire Suppression:	
		Fire suppression system	211000
		Plumbing:	
		1 washfountain (minimum)	224000
		2 utility sinks (minimum)	224000
		2 hose bibbs (minimum)	224000
		Safety shower/eyewash	224000
		2 floor drains	224000
		1 trench drain	224000
		6 compressed air connections	221500
		Plumbing connections	221116/221119/224000
		HVAC:	
		Supply/return air system	Div. 23
		Independent temperature control	230923
		Electrical:	
		High intensity lighting or fluorescent lighting	265100
		illumination level: See Table 8600-4	
		Multilevel switching	262726
		30 duplex receptacles (minimum)	262726
		Double duplex receptacle adjacent to each data and video port	262726
		(4) 220 volt receptacles	262726
		208v 3-phase service	262726
		480v 3-phase service	262726
		Communications:	
		1 video port and video display device	271533/271543/274119
		1 voice port and phone	271513/273113
		4 data ports	271513
		Clock	275313
		Central sound system	275123
		Electronic Safety and Security:	
		Life safety devices per code	283111
FINISHES:	Spec. Ref #		
Flooring:			
Sealed concrete	033000		
Ceiling:			
Painted, exposed structure	099100		
Walls:			
Painted concrete masonry units	042000/ 099100		
LOOSE FURNISHINGS:			
(12) Workbenches with heavy-duty metal tops			
(24) Stools or chairs			
Wastebasket			
Pencil sharpener			
Miscellaneous:			
N/A			

NOTES:

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

**MARINE MAINTENANCE
CT-P5-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

PROGRAM DESCRIPTION:		Spec. Ref.#
Organized learning experiences concerned with the planning and supervision of operation, maintenance, and safety of passenger or cargo vessels.		
Program Type:	5	
Size Requirements:	3,500 SF Lab	
Lab Requirements:		
FINISHES:	Spec. Ref #	
Flooring:		
Sealed concrete	033000	
Ceiling:		
Painted, exposed structure	099100	
Walls:		
Painted concrete masonry units	042000/ 099100	
LOOSE FURNISHINGS:		
(8) Workbenches with heavy-duty metal tops		
(24) Stools or chairs		
(2) Welding tables		
Wastebasket		
Pencil sharpener		
Electronic Safety and Security:		
Life safety devices per code	283111	
Miscellaneous:		
N/A		
The following item is to be funded by the School District:		
Paint prep station		
FEATURES¹:		
Fixed Items:		
16' of chalk/marker board		101100
8' of tack board		101100
24' of tall storage cabinets		123550
Pencil sharpener support		062000
(4) Paper towel dispensers		102813
(3) 7'x5'x3' deep water test tanks		
Thickened slabs under test tanks		033000
12'x14' motorized overhead sectional door to exterior		083613
3'x7' hollow metal service door to exterior		081113
Steel bollards at overhead door, both sides		055000
Fire Suppression:		
Fire suppression system		211000
Plumbing:		
2 washfountains (minimum)		224000
2 utility sinks (minimum)		224000
2 hose bibbs (minimum)		224000
Safety shower/eyewash		224000
4 floor drains		224000
1 trench drain		224000
6 compressed air connections		221500
Plumbing connections		221116/221119/224000
HVAC:		
Supply/return air system		Div. 23
Independent temperature control		230923
Welding hood and exhaust		Div. 23
Vehicle exhaust system		Div. 23
Paint hood supply & exhaust system		Div. 23
Electrical:		
High intensity lighting or fluorescent lighting		265100
Illumination level: See Table 8600-4		
Multilevel switching		262726
30 duplex receptacles (minimum)		262726
Double duplex receptacle adjacent to each data and video port		262726
(4) 220 volt receptacles		262726
Communications:		
1 video port and video display device		271533/271543/274119
1 voice port and phone		271513/273113
4 data ports		271513
Clock		275313
Central sound system		275123

NOTES:

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

**NATURAL RESOURCE MANAGEMENT
CT-P5-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>PROGRAM DESCRIPTION:</u>		<u>FEATURES¹:</u>	Spec.
Programs provide instruction in the theories, principles, and practices of conserving, improving, and productively managing natural resources including air, water, soil, and wildlife. Program specialization areas include forestry and natural resources.		<u>Fixed Items:</u>	<u>Ref.#</u>
Program Type:	5	16' of chalk/marker board	101100
Size Requirements:	3,000 SF Lab	8' of tack board	101100
Lab Requirements:		24' of tall storage cabinets	123550
		Pencil sharpener support	062000
		(3) Paper towel dispensers	102813
		12'x14' motorized overhead sectional door to exterior	083613
		3'x7' hollow metal service door to exterior	081113
		Steel bollards at overhead door, both sides	055000
		<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>FINISHES:</u>		<u>Plumbing:</u>	
Flooring:		1 washfountain (minimum)	224000
Sealed concrete	033000	2 utility sinks (minimum)	224000
Ceiling:		2 hose bibbs (minimum)	224000
Painted, exposed structure	099100	Safety shower/eyewash	224000
Walls:		2 floor drains	224000
Painted concrete masonry units	042000/ 099100	1 trench drain	224000
		6 compressed air connections	221500
		4 natural gas connections	226313
		Master gas shut-off valve	226313
		Plumbing connections	221116/221119/224000
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
(12) Workbenches with heavy-duty metal tops		Supply/return air system	Div. 23
(24) Stools or chairs		Independent temperature control	230923
(2) Welding tables		Welding hood and exhaust	Div. 23
Wastebasket		<u>Electrical:</u>	
Pencil sharpener		High intensity lighting or fluorescent lighting	265100
<u>Miscellaneous:</u>	N/A	Illumination level: See Table 8600-4	
		Multilevel switching	262726
<u>SITE FEATURES:</u>		30 duplex receptacles (minimum)	262726
Greenhouse – 1,000 SF	133413	Double duplex receptacle adjacent to each data and video port	262726
▪ ½ earth flooring, ½ concrete flooring (with floor drains)		(4) 220 volt receptacles	262726
▪ Minimum of one 8'x10' overhead door		<u>Communications:</u>	
▪ Provide electrical, plumbing, and heating/ventilation systems as per greenhouse manufacturer's recommendations.		1 video port and video display device	271533/271543/274119
▪ Minimum of 4 hose bibbs		1 voice port and phone	271513/273113
▪ Fire suppression system if required		4 data ports	271513
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111

NOTES:

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

**PLASTICS OCCUPATIONS
CT-P5-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

PROGRAM DESCRIPTION:		Spec. Ref.#
Classroom and shop-learning experiences dealing with plastics and their characteristics and with bench molding, fitting, internal carving, and finished plastic and fiberglass materials into products. Instruction includes using hand and power tools.		
Program Type:	5	
Size Requirements:	3,000 SF Lab	
Lab Requirements:		
FINISHES:	Spec. Ref #	
Flooring:		
Sealed concrete	033000	
Ceiling:		
Painted, exposed structure	099100	
Walls:		
Painted concrete masonry units	042000/ 099100	
LOOSE FURNISHINGS:		
(8) Workbenches with heavy-duty metal tops		
(24) Stools or chairs		
Wastebasket		
Pencil sharpener		
Electronic Safety and Security:		
Life safety devices per code	283111	
Miscellaneous:		
N/A		
		FEATURES¹:
		Fixed Items:
		16' of chalk/marker board 101100
		8' of tack board 101100
		24' of tall storage cabinets 123550
		Pencil sharpener support 062000
		(3) Paper towel dispensers 102813
		Thickened slabs under heavy machinery 033000
		12'x14' motorized overhead sectional door to exterior 083613
		3'x7' hollow metal service door to exterior 081113
		Steel bollards at overhead door, both sides 055000
		Fire Suppression:
		Fire suppression system 211000
		Plumbing:
		1 washfountain (minimum) 224000
		2 utility sinks (minimum) 224000
		2 hose bibbs (minimum) 224000
		Safety shower/eyewash 224000
		2 floor drains 224000
		1 trench drain 224000
		6 compressed air connections 221500
		Plumbing connections 221116/221119/224000
		Adequate service and connections for water-cooled machinery
		HVAC:
		Supply/return air system Div. 23
		Independent temperature control 230923
		Electrical:
		High intensity lighting or fluorescent lighting 265100
		Illumination level: See Table 8600-4
		Multilevel switching 262726
		30 duplex receptacles (minimum) 262726
		Double duplex receptacle adjacent to each data and video port 262726
		277v 3-phase service 262726
		480v 3-phase service 262726
		Communications:
		1 video port and video display device 271533/271543/274119
		1 voice port and phone 271513/273113
		4 data ports 271513
		Clock 275313
		Central sound system 275123

NOTES:

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

PLUMBING AND PIPEFITTING

CT-P5-1

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>PROGRAM DESCRIPTION:</u>		<u>FEATURES¹:</u>	Spec.
Specialized classroom and laboratory experiences concerned with layout, assembly, installation, alteration, and repair of piping systems and related fixtures and fittings. Included is instruction in the use of pipe-cutting, bending, grooving, and threading tools; the maintenance and use of welding, soldering, and brazing equipment; the care and safe use of hand and power tools and equipment; and the reading, interpretation, and application of blueprints and piping diagrams.		<u>Fixed Items:</u>	<u>Ref.#</u>
Program Type:	5	16' of chalk/marker board	101100
Size Requirements:	3,000 SF Lab	8' of tack board	101100
Lab Requirements:		24' of tall storage cabinets	123550
		Pencil sharpener support	062000
		(3) Paper towel dispensers	102813
		12'x14' motorized overhead sectional door to exterior	083613
		3'x7' hollow metal service door to exterior	081113
		Steel bollards at overhead door, both sides	055000
		<u>Fire Suppression:</u>	
		Fire suppression system	211000
		<u>Plumbing:</u>	
		1 washfountain (minimum)	224000
		2 utility sinks (minimum)	224000
		2 hose bibbs (minimum)	224000
		Safety shower/eyewash	224000
		2 floor drains	224000
		1 trench drain	224000
		6 compressed air connections	221500
		6 natural gas connections	226313
		Master gas shut-off valve	226313
		Plumbing connections	221116/221119/224000
		<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Independent temperature control	230923
		Welding hood and exhaust	Div. 23
		Individual exhaust system for each gas-fired piece of equipment	Div. 23
		<u>Electrical:</u>	
		High intensity lighting or fluorescent lighting	265100
		illumination level: See Table 8600-4	
		Multilevel switching	262726
		30 duplex receptacles (minimum)	262726
		Double duplex receptacle adjacent to each data and video port	262726
		(6) 220 volt receptacles	262726
		<u>Communications:</u>	
		1 video port and video display device	271533/271543/274119
		1 voice port and phone	271513/273113
		4 data ports	271513
		Clock	275313
		Central sound system	275123
<u>FINISHES:</u>	<u>Spec. Ref #</u>		
Flooring:			
Sealed concrete	033000		
Ceiling:			
Painted, exposed structure	099100		
Walls:			
Painted concrete masonry units	042000/099100		
<u>LOOSE FURNISHINGS:</u>			
(12) Workbenches with heavy-duty metal tops			
(24) Stools or chairs			
(4) Welding tables			
Wastebasket			
Pencil sharpener			
<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.

**POWER EQUIPMENT TECHNOLOGY
CT-P5-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

		Spec. Ref.#
<u>PROGRAM DESCRIPTION:</u>		
Classroom and shop experiences concerned with maintaining and repairing a variety of portable power equipment, e.g., lawnmowers, outbound motorboats, chainsaws, and rototillers. Instruction includes principles of internal-combustion engine operation, reading technical manuals, and customer relations. One year specialization program may be approved in small engine repair and servicing under this course code.		
Program Type:	5	
Size Requirements:	3,500 SF Lab	
Lab Requirements:		
<u>FINISHES:</u>	Spec. <u>Ref #</u>	
Flooring:		
Sealed concrete	033000	
Ceiling:		
Painted, exposed structure	099100	
Walls:		
Painted concrete masonry units	042000/ 099100	
<u>LOOSE FURNISHINGS:</u>		
(12) Workbenches with heavy-duty metal tops		
(24) Stools or chairs		
(2) Welding tables		
Wastebasket		
Pencil sharpener		
<u>Electronic Safety and Security:</u>		
Life safety devices per code	283111	
<u>Miscellaneous:</u>		
N/A		
<u>FEATURES¹:</u>		
<u>Fixed Items:</u>		
16' of chalk/marker board	101100	
8' of tack board	101100	
24' of tall storage cabinets	123550	
Pencil sharpener support	062000	
(4) Paper towel dispensers	102813	
12'x14' motorized overhead sectional door to exterior	083613	
3'x7' hollow metal service door to exterior	081113	
Steel bollards at overhead door, both sides	055000	
<u>Fire Suppression:</u>		
Fire suppression system	211000	
<u>Plumbing:</u>		
2 washfountains (minimum)	224000	
2 utility sinks (minimum)	224000	
2 hose bibbs (minimum)	224000	
Safety shower/eyewash	224000	
4 floor drains	224000	
1 trench drain	224000	
6 compressed air connections	221500	
Plumbing connections	221116/221119/224000	
<u>HVAC:</u>		
Supply/return air system	Div. 23	
Independent temperature control	230923	
Welding hood and exhaust	Div. 23	
<u>Electrical:</u>		
High intensity lighting or fluorescent lighting	265100	
Illumination level: See Table 8600-4		
Multilevel switching	262726	
30 duplex receptacles (minimum)	262726	
Double duplex receptacle adjacent to each data and video port	262726	
(6) 220 volt receptacles	262726	
<u>Communications:</u>		
1 video port and video display device	271533/271543/274119	
1 voice port and phone	271513/273113	
4 data ports	271513	
Clock	275313	
Central sound system	275123	

NOTES:

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

**POWER TRANSMISSION
CT-P5-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p><u>PROGRAM DESCRIPTION:</u> Specialized classroom and laboratory experiences concerned with erecting and maintaining power lines and circuits for transmission and distribution of electrical power, and assembling and erecting related equipment and structures.</p> <p>Program Type: 5</p> <p>Size Requirements: 3,500 SF Lab</p> <p>Lab Requirements:</p> <p><u>FINISHES:</u> Flooring: Sealed concrete</p> <p>Ceiling: Painted, exposed structure</p> <p>Walls: Painted concrete masonry units</p> <p><u>LOOSE FURNISHINGS:</u> (12) Workbenches with heavy-duty metal tops (24) Stools or chairs Wastebasket Pencil sharpener</p> <p><u>Miscellaneous:</u> N/A</p>	<p style="text-align: right;">Spec. Ref.#</p> <p><u>FEATURES¹:</u> <u>Fixed Items:</u></p> <p>16' of chalk/marker board 101100 8' of tack board 101100 24' of tall storage cabinets 123550 Pencil sharpener support 062000 (4) Paper towel dispensers 102813 12'x14' motorized overhead sectional door to exterior 083613 3'x7' hollow metal service door to exterior 081113 Steel bollards at overhead door, both sides 055000 Provide (6) holes in floor to accommodate utility poles. Provide removable metal covers when not in use.</p> <p><u>Fire Suppression:</u> Fire suppression system 211000</p> <p><u>Plumbing:</u> 1 washfountain (minimum) 224000 2 utility sinks (minimum) 224000 2 hose bibbs (minimum) 224000 Safety shower/eyewash 224000 2 floor drains 224000 1 trench drain 224000 6 compressed air connections 221500 Plumbing connections 221116/221119/224000</p> <p><u>HVAC:</u> Supply/return air system Div. 23 Independent temperature control 230923</p> <p><u>Electrical:</u> High intensity lighting or fluorescent lighting 265100 Illumination level: See Table 8600-4 Multilevel switching 262726 30 duplex receptacles (minimum) 262726 Double duplex receptacle adjacent to each data and video port 262726</p> <p><u>Communications:</u> 1 video port and video display device 271533/271543/274119 1 voice port and phone 271513/273113 4 data ports 271513 Clock 275313 Central sound system 275123</p> <p><u>Electronic Safety and Security:</u> Life safety devices per code 283111</p>
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NOTES:

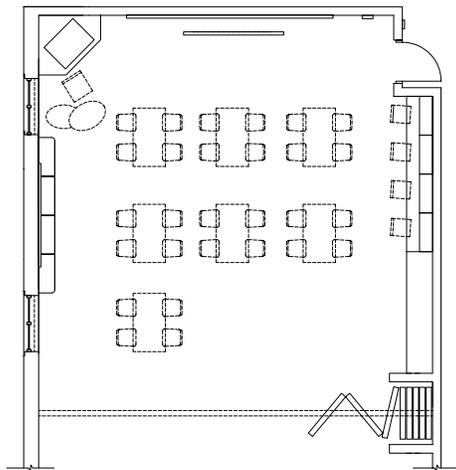
1. Finishes/Features: Refer to Chapter 9 for specification references.

**WELDING and CUTTING
CT-P5-1**

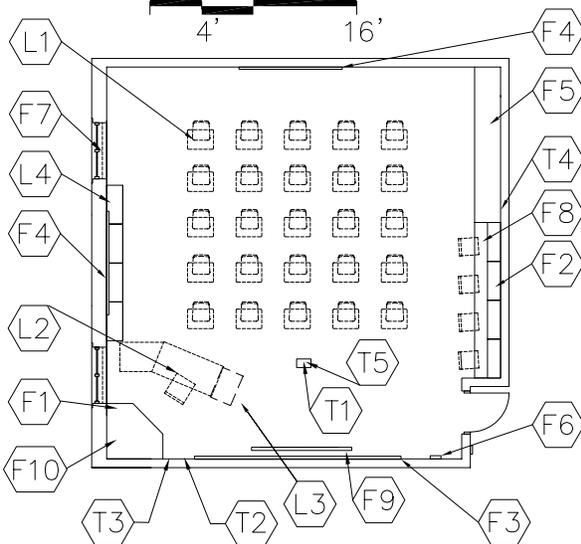
<u>PROGRAM DESCRIPTION:</u>	Specialized classroom and shop-learning experiences that are concerned with all types of metal welding, brazing, and flame cutting. Instruction emphasizes properties of metals, blueprint reading, electrical principles, welding symbols, and mechanical drawing.	<u>FEATURES¹:</u>	Spec.
Program Type:	5	<u>Fixed Items:</u>	<u>Ref.#</u>
Size Requirements:	3,500 SF Lab	16' of chalk/marker board	101100
Lab Requirements:		8' of tack board	101100
<u>FINISHES:</u>		24' of tall storage cabinets	123550
Flooring:		Pencil sharpener support	062000
Sealed concrete	Spec. <u>Ref #</u>	Overhead hoist crane	412223
		(3) Paper towel dispensers	102813
Ceiling:		12'x14' motorized overhead sectional door to exterior	083613
Painted, exposed structure	099100	3'x7' hollow metal service door to exterior	081113
Walls:		Steel bollards at overhead door, both sides	055000
Painted concrete masonry units	042000/ 099100	<u>Fire Suppression:</u>	
<u>LOOSE FURNISHINGS:</u>		Fire suppression system	211000
(20) Welding tables with heavy-duty metal tops		<u>Plumbing:</u>	
(24) Stools or chairs		1 washfountain (minimum)	224000
(4) 4'x4' metal worktables		2 utility sinks (minimum)	224000
(1) Steel tube storage rack		2 hose bibbs (minimum)	224000
(1) Sheet steel storage rack		Safety shower/eyewash	224000
Wastebasket		2 floor drains	224000
Pencil sharpener		1 trench drain	224000
<u>Electronic Safety and Security:</u>		6 compressed air connections	221500
Life safety devices per code	283111	Plumbing connections 221116/221119/224000	
<u>Miscellaneous:</u> N/A		<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Independent temperature control	230923
		Welding hood and exhaust	Div. 23
		<u>Electrical:</u>	
		High intensity lighting or fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		Multilevel switching	262726
		30 duplex receptacles (minimum)	262726
		Double duplex receptacle adjacent to each data and video port	262726
		(6) 220 volt receptacles	262726
		480v 3-phase service	262726
		<u>Communications:</u>	
		1 video port and video display device	271533/271543/274119
		1 voice port and phone	271513/273113
		4 data ports	271513
		Clock	275313
		Central sound system	275123

NOTES:

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



CLASSROOM WITH OPTIONAL FOLDING WALL



TYPICAL CLASSROOM

CAPACITY: 25 students
SIZE: 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 related lab
- 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
- Proximity to main corridor to accommodate other students without interrupting lab

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

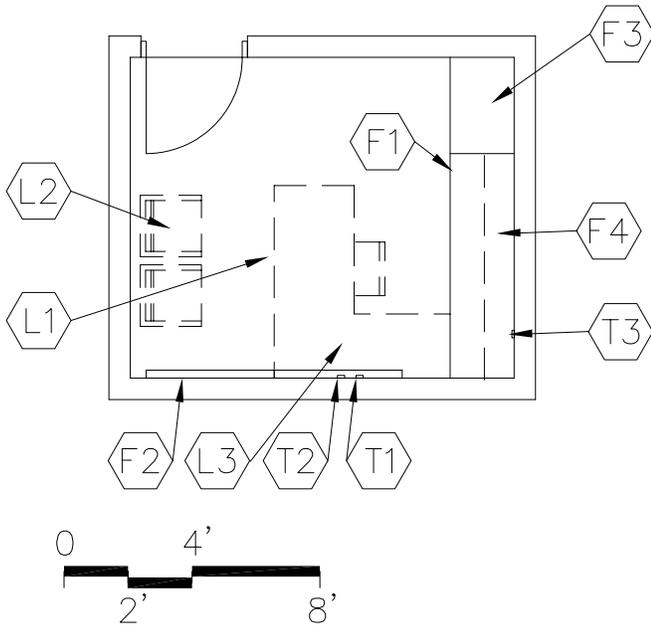
**RELATED CLASSROOM
CT-P5-2**

CHAPTER 6: CAREER-TECHNICAL HIGH SCHOOL

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

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Technology components may be placed in a separate small cabinet, or integrated in the other casework in the room.
3. Where appropriate, some casework may be mobile to add flexibility and become part of the loose furnishings.



PROGRAM ACTIVITIES:

- Private space for program instructor
- One-on-one conferences with academic instructors, students, etc.

SPATIAL RELATIONSHIPS:

- Near related lab
- Direct access to school circulation areas

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY: 1 - 3 persons
SIZE: 120 SF

NOTES:

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

**OFFICE
CT-P5-3**

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

NOTES:

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

PROGRAM ACTIVITIES:

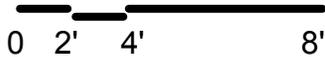
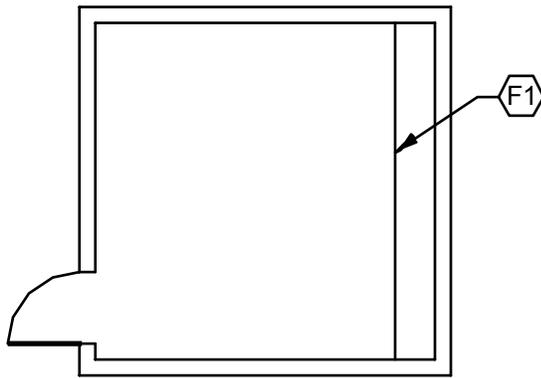
- Space for storage of lab equipment

SPATIAL RELATIONSHIPS:

- Near related lab

ENVIRONMENTAL CONSIDERATIONS:

N/A



CAPACITY:
SIZE:

N/A
200 SF

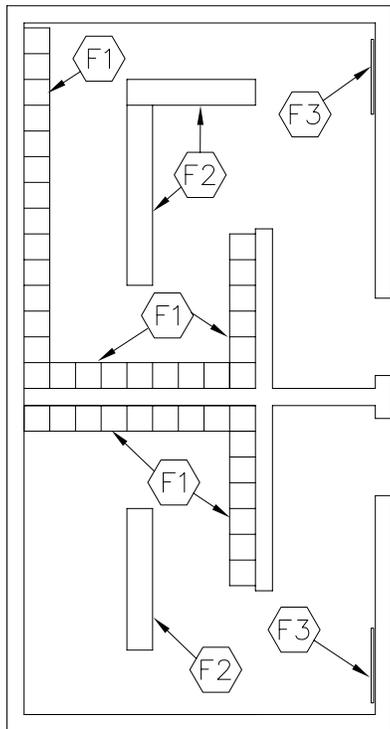
NOTES:

**STORAGE AREA
CT-P5-4**

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<u>Fixed Items¹:</u>	
Sealed concrete	033000	F1 8'-20' of open shelving	
		Depth may vary (fixed or loose)	123550
Base:		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Exposed structure	---	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>	
N/A		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		Duplex receptacles	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



PROGRAM ACTIVITIES:

- Personal and health needs for the program Specific users.
- Changing of clothes and/or uniforms.
- Storage of personal items while students are in lab.

SPATIAL RELATIONSHIPS:

- Adjacent to related lab

ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting
- Sanitary and durable finishes.
- Environmental sound control
Wall minimum STC 40
Ceiling minimum CAC 35, NRC **0.70**

CAPACITY: N/A
SIZE: 9 SF per student (see Note 2)

NOTES:

1. Large and small changing areas are interchangeable for either males or females.
Determination based on male/female ratio within each program.
2. Student count determined by total number of approved program spaces Types 5, 6, and 7 times **30**.

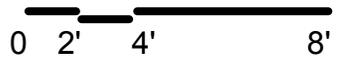
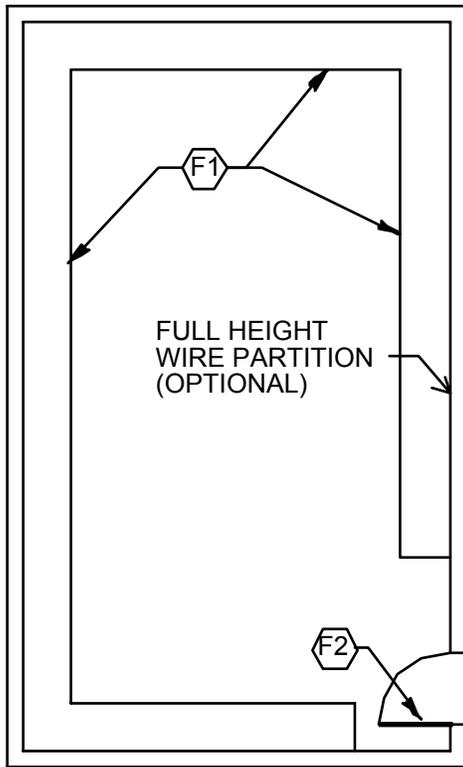
**CHANGING ROOM
CT-P5-4**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items¹:</u>	
Sealed concrete	033000	F1 Student lockers	105113
Optional: Vinyl composition tile, linoleum, or rubber	096500 096516	F2 Locker benches	062000
		F3 24" x 60" mirror	102813
<u>Base:</u>		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
<u>Ceiling:</u>		<u>Plumbing:</u>	
Suspended, acoustical with high impact hold down clips	095113	N/A	
<u>Walls:</u>		<u>HVAC:</u>	
Painted concrete masonry units 042000 / 099100		Supply/Return air system	Div. 23
		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		Individual temperature control	230923
<u>LOOSE FURNISHINGS</u>		<u>Electrical:</u>	
Wastebaskets		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		2 Duplex receptacles	262726
		Means of egress lighting per code	265100
		<u>Communications:</u>	
		Clock	275313
		Central Sound System	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



CAPACITY: N/A
 SIZE: 550 SF
 ANCILLARY SPACES:

PROGRAM ACTIVITIES:

- Storage of program related tools and instruments.
- Storage of students' tools.

SPATIAL RELATIONSHIPS:

- Adjacent to related lab

ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting
- Sanitary and durable finishes

NOTES:

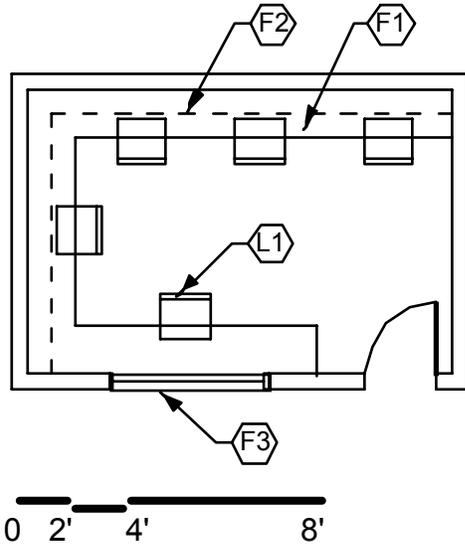
**TOOL CRIB
CT-P5-6**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES</u> ¹ :		<u>FEATURES</u> ¹ :	
Flooring:		<u>Fixed Items</u> ¹ :	
Sealed concrete	033000	F1 80' of open metal shelving (total), Depth may vary (fixed or loose)	105613
Optional: Vinyl composition tile, linoleum, or rubber	096500 096516	F2 Dutchdoor	105613
Base:		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Suspended, acoustical	095113	N/A	
Walls:		<u>HVAC:</u>	
Painted concrete masonry units	042000 / 099100	Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
<u>LOOSE FURNISHINGS</u>		<u>Electrical:</u>	
N/A		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		4 Duplex receptacles	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



PROGRAM ACTIVITIES:

- Individual computer research.
- Reference program specific manuals.
- Small group meetings.

SPATIAL RELATIONSHIPS:

- Adjacent to related lab

ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting
- Sanitary and durable finishes
- Environmental sound control
Wall minimum STC **45**
Ceiling minimum CAC 35, NRC **0.70**

CAPACITY:
SIZE:

N/A
200 SF

NOTES:

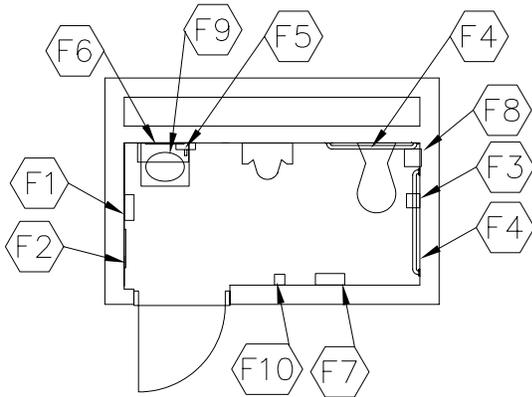
**REFERENCE ROOM
CT-P5-7**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<u>Fixed Items:</u>	
Sealed concrete	033000	F1 34' of plastic lam. counter	062000
Optional: Vinyl composition tile,	096500	F2 27' of adjustable shelving	062000
		F3 Interior window	081113 / 088000
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
		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
<u>LOOSE FURNISHINGS</u>		<u>Electrical:</u>	
L3 Student chairs		Single level switching	262726
Wastebasket		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		2 Duplex receptacles	262726
		Duplex receptacle adjacent to	
		Each data and video port	262726
		<u>Communications:</u>	
		T1 6 data ports	271513
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



PROGRAM ACTIVITIES:

- Personal and health needs for the program
- Specific users
- Changing of clothes and/or uniforms.

SPATIAL RELATIONSHIPS:

- Adjacent to related lab

ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting
- Sanitary and durable finishes.
- Environmental sound control
 Wall minimum **STC 48**
 Ceiling minimum **CAC 35, NRC 0.70**

CAPACITY:
SIZE:

N/A
68 SF

NOTES:

**TOILET ROOM
CT-P5-8**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

	Spec. Ref.#
FINISHES¹:	
Sealed concrete	033000
Optional: Vinyl composition tile	096500
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000 / 099100

LOOSE FURNISHINGS

Wastebaskets

	Spec. Ref.#
FEATURES¹:	
<u>Fixed Items:</u>	
F1 Towel dispenser	102813
F2 24" x 60" mirror	102813
F3 Toilet tissue holder	102813
F4 36" and 42" grab bars	102813
F5 Soap dispenser	102813
F6 16" x 24" mirror	102813
F7 Sanitary product dispenser	102813
F8 Sanitary product receptacle	102813
F9 Stainless steel shelf (optional)	102813
F10 Coat hook	102813

Fire Suppression:

Fire suppression system 211000

Plumbing:

Plumbing connections
221116/221119/224000

HVAC:

Supply/return air system Div. 23
Exhaust air system Div. 23
Supplemental heat as required Div. 23
Individual temperature control 230923

Electrical:

Single level switching 262726
Fluorescent lighting 265100
Illumination level: See Table 8600-4
2 Duplex receptacles 262726
Means of egress lighting per code 265100

Communications:

Clock 275313

Electronic Safety and Security:

Life safety devices per code 283111

Miscellaneous:

N/A

NOTES:

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

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Program Type 6

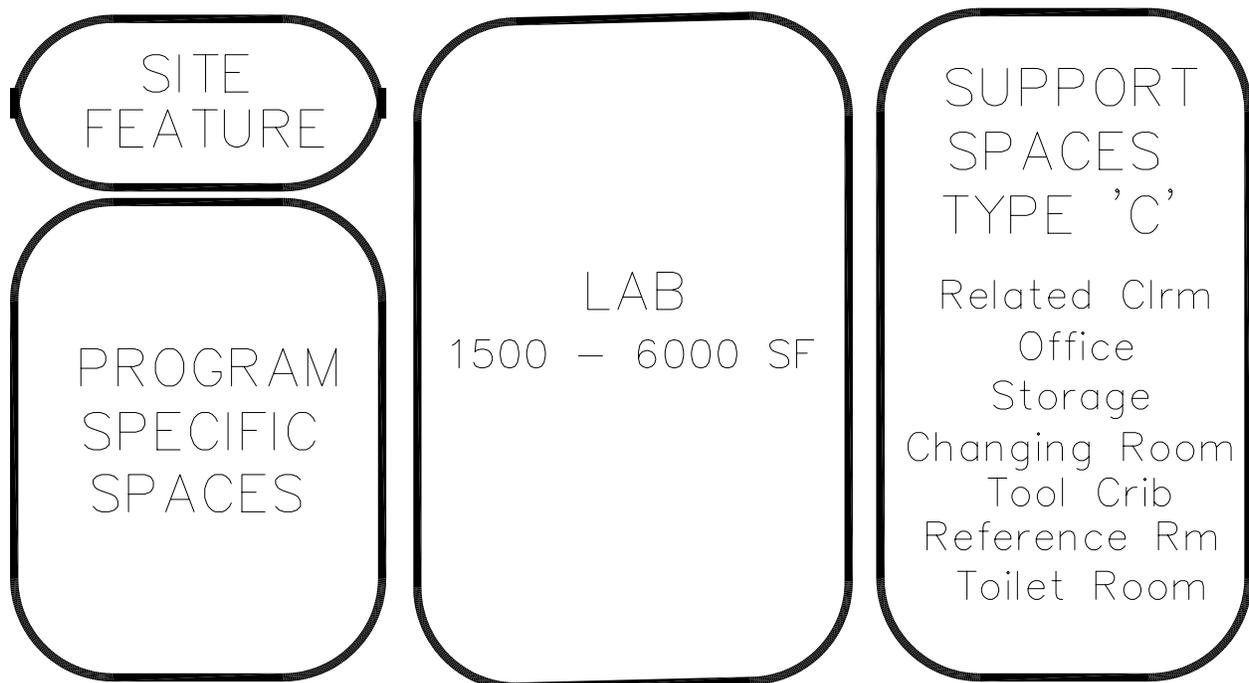
Description: Medium to large sized lab space with enhanced support space.

Lab space to be “high-bay” (**18'** min. clearance) with exposed building structure.

Lab to utilize standard construction with the following exception – lab floor slab to be 8” thick.

Support space to be finished with sealed concrete or vinyl composition tile, paint, and suspended acoustical ceiling. Lab may have possible site feature.

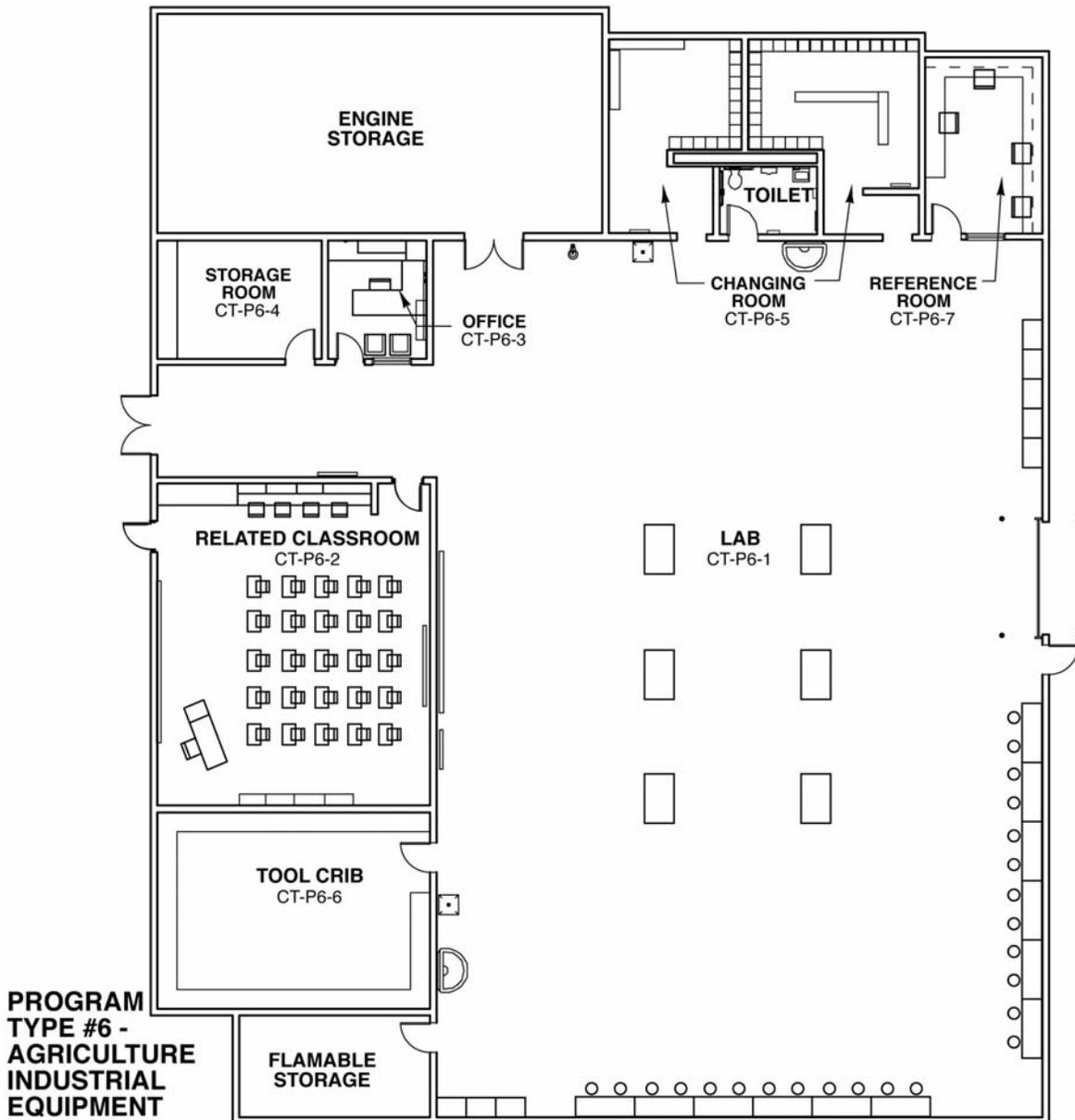
No air-conditioning of any spaces within Program Type 6.

**NOTES:**

This is an example of how the Program Type 6 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 Program Type 6 space plates:

CT-P6-1	Lab
CT-P6-2	Related Classroom
CT-P6-3	Office
CT-P6-4	Storage
CT-P6-5	Changing Room
CT-P6-6	Tool Crib
CT-P6-7	Reference Room
CT-P6-8	Toilet Room

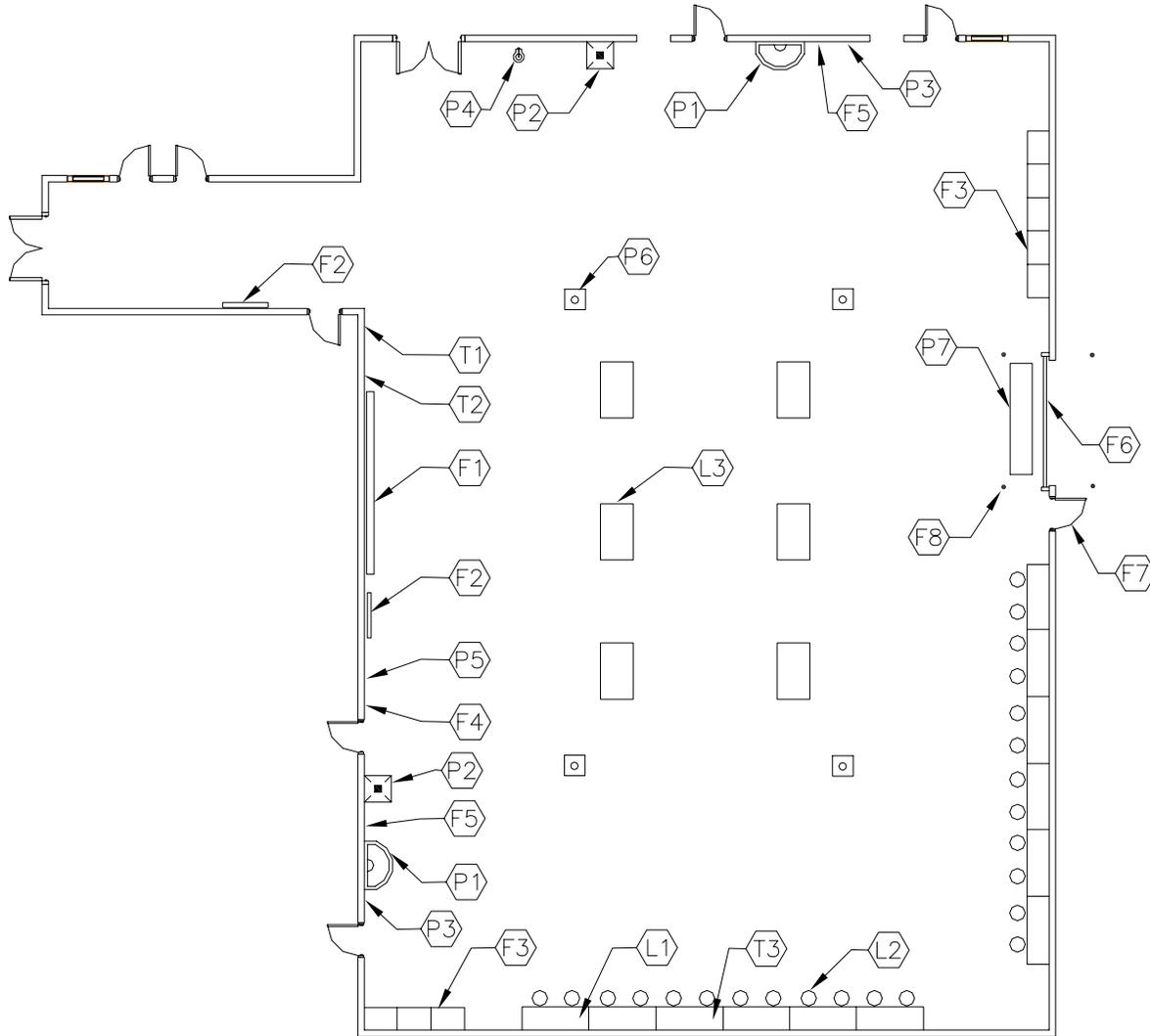


Program Type 6

This is an example to show the possible relationships of spaces for this program type.

NOTES:

1. See lab descriptions within this section for specific lab requirements.
2. See individual space plates at the end of this section for specific requirements.



CAPACITY: 24 Students
 SIZE: 1,500 – 6,000 SF
 (see lab summaries for exact sizes)
 ANCILLARY SPACES: CT-P6-2 thru CT-P6-8

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.
2. Graphic plate is an example only. Other labs within this program are not drawn – refer to lab summaries within this program type for information on a particular lab.

PROGRAM ACTIVITIES:

- Large and small group instruction
- Group and individual work
- Demonstrations

SPATIAL RELATIONSHIPS:

- Near other related labs
- Adjacent to typical support spaces
- Proximity to large group restrooms
- Located away from noisy or public activities
- Proximity to core academic area and common use areas
- Flexibility of space

ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting with 80% visual comfort probability level.
- Optional: Natural light opening equal to 5% minimum of floor area, with an operable vent
- Environmental sound control -
 walls minimum STC 50
 ceiling minimum CAC 35, NRC **0.70**
- Flexibility of space

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Loose Furnishings: Refer to Lab Profiles within this section.
3. Loose Furnishings, fixed equipment, utility locations, and general footprint of room shown represent one of many possible arrangements.

AGRICULTURE / INDUSTRIAL EQUIPMENT

CHAPTER 6: CAREER-TECHNICAL SCHOOL

CT-P6-1

<u>PROGRAM DESCRIPTION:</u>		<u>FEATURES¹:</u>		Spec.
Programs provide instruction in the operations or processes concerned with the selection, operation maintenance, and use of agricultural power, agricultural machinery and equipment, structures and utilities, soil and water management.		<u>Fixed Items:</u>		<u>Ref.#</u>
Program Type:	6	F1	16' of chalk/marker board	101100
Size Requirements:	5,000 SF Lab	F2	8' of tack board	101100
Lab Requirements:		F3	24' of tall storage cabinets	123550
		F4	Pencil sharpener support	062000
		F5	(4) Paper towel dispensers	102813
		F6	12'x14' motorized overhead sectional door to exterior	083613
		F7	3'x7' hollow metal service door to exterior	081113
		F8	Steel bollards at overhead door, both sides	055000
			<u>Fire Suppression:</u>	
			Fire suppression system	211000
			<u>Plumbing:</u>	
		P1	2 washfountains (minimum)	224000
		P2	2 utility sinks (minimum)	224000
		P3	2 hose bibbs (minimum)	224000
		P4	Safety shower/eyewash	224000
		P5	6 compressed air connections	221500
		P6	4 floor drains	224000
		P7	1 trench drain	224000
			Plumbing connections	221116/221119/224000
			<u>HVAC:</u>	
			Supply/return air system	Div. 23
			Independent temperature control	230923
			Welding hood and exhaust	Div. 23
			Vehicle exhaust system	Div. 23
			<u>Electrical:</u>	
			High intensity lighting or fluorescent lighting	265100
			Illumination level: See Table 8600-4	
			Multilevel switching	262726
			30 duplex receptacles (minimum)	262726
			Double duplex receptacle adjacent to each data and video port	262726
			(6) 220 volt receptacles	262726
			<u>Communications:</u>	
		T1	1 video port and video display device	271533/271543/274119
		T2	1 voice port and phone	271513/273113
		T3	4 data ports	271513
			Clock	275313
			Central sound system	275123
<u>FINISHES:</u>		Spec.		
		<u>Ref #</u>		
Flooring:				
Sealed concrete		033000		
Ceiling:				
Painted, exposed structure		099100		
Walls:				
Painted concrete masonry units	042000/			
	099100			
<u>LOOSE FURNISHINGS:</u>				
L1	(12) Workbenches with heavy-duty metal tops			
L2	(24) Stools or chairs			
L3	(6) Welding tables			
	Wastebasket			
	Pencil sharpener			
<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.

AGRICULTURE / INDUSTRIAL EQUIPMENT
Engine Storage

Program Type: 6	Spec. Ref #	<u>FEATURES¹:</u>	Spec. Ref.#
Size Requirements: 1,000 SF		<u>Fixed Items:</u>	
		Pair of doors	081113
Requirements:		<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>FINISHES:</u>		<u>Plumbing:</u>	
Flooring:		N/A	
Sealed concrete	033000	<u>HVAC:</u>	
		Supplemental heat as required	Div. 23
Ceiling:		<u>Electrical:</u>	
Suspended, acoustical	095113	Fluorescent lighting	265100
Option: painted, exposed structure	099100	Illumination level: See Table 8600-4	
		Single level switching	262726
Walls:		4 duplex receptacles	262726
Painted concrete masonry units	042000/ 099100	<u>Communications:</u>	
		Central sound system	275123
<u>LOOSE FURNISHINGS:</u>		<u>Electronic Safety and Security:</u>	
N/A		Life safety devices per code	283111
<u>ENVIRONMENTAL CONSIDERATIONS:</u>		<u>Miscellaneous:</u>	
<ul style="list-style-type: none"> ▪ Wall minimum STC 50 ▪ This room to be one-story (14'+/-) tall, located within high-bay program. 		N/A	

NOTES:

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

**AGRICULTURE / INDUSTRIAL EQUIPMENT
Flammable Material Storage**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

Program Type: 6	Spec. Ref #	<u>FEATURES¹:</u>	Spec.
Size Requirements: 200 SF		<u>Fixed Items:</u> N/A	Ref.#
Requirements:		<u>Fire Suppression:</u>	
<u>FINISHES:</u>		Fire suppression system	211000
Flooring:	033000	<u>Plumbing:</u>	
Sealed concrete		N/A	
Ceiling:		<u>HVAC:</u>	
Fire-rated gypsum wallboard	092113	Supplemental heat as required	Div. 23
Walls:		Independent ventilation	Div. 23
Painted concrete masonry units	042000/ 099100	<u>Electrical:</u>	
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		Single level switching	262726
		2 duplex receptacles	262726
<u>LOOSE FURNISHINGS:</u>		<u>Communications:</u>	
N/A		Central sound system	275123
<u>ENVIRONMENTAL CONSIDERATIONS:</u>		<u>Electronic Safety and Security:</u>	
<ul style="list-style-type: none"> ▪ Wall minimum STC 45 ▪ This room to be one-story (14' +/-) tall, located within high-bay program. 		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

**AUTO COLLISION REPAIR
CT-P6-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>PROGRAM DESCRIPTION:</u>	Specialized learning experiences concerned with all phases of the repair of damaged bodies and fenders, including metal straightening by hammering; smoothing area by filing, grinding, or sanding; concealment of imperfections; painting; and replacement of body components, including trim.	<u>FEATURES¹:</u>	Spec.
Program Type:	6	<u>Fixed Items:</u>	<u>Ref.#</u>
Size Requirements:	5,000 SF Lab	16' of chalk/marker board	101100
Lab Requirements:	Spec.	8' of tack board	101100
<u>FINISHES:</u>	<u>Ref #</u>	24' of tall storage cabinets	123550
Flooring:	033000	Pencil sharpener support	062000
Sealed concrete		(4) Paper towel dispensers	102813
Ceiling:	099100	12'x14' motorized overhead	
Painted, exposed structure		sectional door to exterior	083613
Walls:	042000/	3'x7' hollow metal service door	081113
Painted concrete masonry units	099100	to exterior	
<u>LOOSE FURNISHINGS:</u>		Steel bollards at overhead door,	055000
(6) Workbenches with heavy-duty metal tops		both sides	
(24) Stools or chairs		<u>Fire Suppression:</u>	
Wastebasket		Fire suppression system	211000
Pencil sharpener		<u>Plumbing:</u>	
<u>Electronic Safety and Security:</u>		2 washfountains (minimum)	224000
Life safety devices per code	283111	2 utility sinks (minimum)	224000
<u>Miscellaneous:</u>		2 hose bibbs (minimum)	224000
N/A		Safety shower/eyewash	224000
<u>The following items are to be funded by the School District:</u>		8 compressed air connections	221500
Car lifts		4 floor drains	224000
Frame racks		1 trench drain	224000
<u>NOTES:</u>		Plumbing connections	221116/221119/224000
1. Finishes/Features: Refer to Chapter 9 for specification references.		<u>HVAC:</u>	
Ohio School Design Manual-CT	6316 - 10	Supply/return air system	Div. 23
Ohio School Facilities Commission		Independent temperature control	230923
		<u>Electrical:</u>	
		High intensity lighting <i>or</i>	265100
		<i>fluorescent lighting</i>	
		Illumination level: See Table 8600-4	
		Multilevel switching	262726
		30 duplex receptacles (minimum)	262726
		Double duplex receptacle adjacent to	
		each data and video port	262726
		(4) 220 volt receptacles	262726
		<u>Communications:</u>	
		1 video port and video display device	
			271533/271543/274119
		1 voice port and phone	271513/273113
		4 data ports	271513
		Clock	275313
		Central sound system	275123

**AUTO COLLISION REPAIR
Auto Parts Storage**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p>Program Type: 6</p> <p>Size Requirements: 300 SF</p> <p>Requirements:</p> <p><u>FINISHES:</u> Flooring: Sealed concrete</p> <p>Ceiling: Suspended, acoustical</p> <p>Walls: Painted concrete masonry units</p> <p><u>LOOSE FURNISHINGS:</u> N/A</p> <p><u>ENVIRONMENTAL CONSIDERATIONS:</u></p> <ul style="list-style-type: none"> ▪ Wall minimum STC 45 ▪ This room to be one-story (14' +/-) tall, located within high-bay program. 	<p style="text-align: right;">Spec. Ref.#</p> <p><u>FEATURES¹:</u> <u>Fixed Items:</u> 30' of heavy duty adjustable steel shelving</p> <p><u>Fire Suppression:</u> Fire suppression system</p> <p><u>Plumbing:</u> N/A</p> <p><u>HVAC:</u> Supplemental heat as required</p> <p><u>Electrical:</u> Fluorescent lighting Illumination level: See Table 8600-4 Single level switching 4 duplex receptacles</p> <p><u>Communications:</u> Central sound system</p> <p><u>Electronic Safety and Security:</u> Life safety devices per code</p> <p><u>Miscellaneous:</u> N/A</p>
	<p style="text-align: right;">105613</p> <p style="text-align: right;">211000</p> <p style="text-align: right;">033000</p> <p style="text-align: right;">095113</p> <p style="text-align: right;">042000/ 099100</p> <p style="text-align: right;">Div. 23</p> <p style="text-align: right;">265100</p> <p style="text-align: right;">262726</p> <p style="text-align: right;">262726</p> <p style="text-align: right;">275123</p> <p style="text-align: right;">283111</p>

NOTES:

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

**AUTO TECHNOLOGY
CT-P6-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>PROGRAM DESCRIPTION:</u>	Learning experiences concerned with the components of the vehicle, including engine, transmissions, steering, suspension, brakes, and electrical/electronic systems. Included is training in the use of diagnostic and testing equipment and tools used in the repair process.	<u>FEATURES¹:</u>	Spec.
Program Type:	6	<u>Fixed Items:</u>	<u>Ref.#</u>
Size Requirements:	5,000 SF Lab	16' of chalk/marker board 101100 8' of tack board 101100 24' of tall storage cabinets 123550 Pencil sharpener support 062000 (4) Paper towel dispensers 102813 12'x14' motorized overhead sectional door to exterior 083613 3'x7' hollow metal service door to exterior 081113 Steel bollards at overhead door, both sides 055000	
Lab Requirements:		<u>Fire Suppression:</u>	
<u>FINISHES:</u>	Spec. <u>Ref #</u>	Fire suppression system 211000	
Flooring:		<u>Plumbing:</u>	
Sealed concrete 033000		2 washfountains (minimum) 224000 2 utility sinks (minimum) 224000 2 hose bibbs (minimum) 224000 Safety shower/eyewash 224000 8 compressed air connections 221500 4 floor drains 224000 1 trench drain 224000 Plumbing connections 221116/221119/224000	
Ceiling:		<u>HVAC:</u>	
Painted, exposed structure 099100		Supply/return air system Div. 23 Independent temperature control 230923 Vehicle exhaust system Div. 23	
Walls:		<u>Electrical:</u>	
Painted concrete masonry units 042000/099100		High intensity lighting or fluorescent lighting 265100 Illumination level: See Table 8600-4 Multilevel switching 262726 30 duplex receptacles (minimum) 262726 Double duplex receptacle adjacent to each data and video port 262726 (6) 220 volt receptacles 262726	
<u>LOOSE FURNISHINGS:</u>		<u>Communications:</u>	
(6) Workbenches with heavy-duty metal tops (24) Stools or chairs Wastebasket Pencil sharpener		1 video port and video display device 271533/271543/274119 1 voice port and phone 271513/273113 6 data ports 271513 Clock 275313 Central sound system 275123	
<u>Electronic Safety and Security:</u>			
Life safety devices per code 283111			
<u>Miscellaneous:</u>			
N/A			
<u>The following items are to be funded by the School District:</u>			
Car lifts			
Frame racks			

NOTES:

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

Program Type: 6		FEATURES¹:	Spec. Ref.#
Size Requirements: 800 SF		Fixed Items:	
		Pair of doors	081113
Requirements:		Fire Suppression:	
		Fire suppression system	211000
FINISHES:	Spec. Ref #	Plumbing:	
Flooring:		N/A	
Sealed concrete	033000	HVAC:	
Ceiling:		Supplemental heat as required	Div. 23
Suspended, acoustical	095113	Independent ventilation	Div. 23
Option: painted, exposed structure	099100	Electrical:	
Walls:		Fluorescent lighting	265100
Painted concrete masonry units	042000/ 099100	Illumination level: See Table 8600-4	
		Single level switching	262726
		4 duplex receptacles	262726
LOOSE FURNISHINGS:		Communications:	
N/A		Central sound system	275123
		Electronic Safety and Security:	
		Life safety devices per code	283111
ENVIRONMENTAL CONSIDERATIONS:		Miscellaneous:	
<ul style="list-style-type: none"> ▪ Wall minimum STC 45 ▪ This room to be one-story (14'+/-) tall, located within high-bay program. 		N/A	

NOTES:

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

**AUTO TECHNOLOGY
Machine Room**

<p>Program Type: 6</p> <p>Size Requirements: 900 SF</p> <p>Requirements:</p> <p><u>FINISHES:</u> Spec. Ref # Flooring: Sealed concrete 033000</p> <p>Ceiling: Suspended, acoustical 095113 Option: painted, exposed structure 099100</p> <p>Walls: Painted concrete masonry units 042000/099100</p> <p><u>LOOSE FURNISHINGS:</u> (4) Work tables Wastebasket</p> <p><u>ENVIRONMENTAL CONSIDERATIONS:</u></p> <ul style="list-style-type: none"> ▪ Wall minimum STC 50 ▪ This room to be one-story (14'+/-) tall, located within high-bay program. 	<p style="text-align: right;">Spec. Ref.#</p> <p><u>FEATURES¹:</u></p> <p><u>Fixed Items:</u> 16' of tall cabinets 123550 Paper towel dispenser 102813</p> <p><u>Fire Suppression:</u> Fire suppression system 211000</p> <p><u>Plumbing:</u> Utility sink 224000 Plumbing connections 221116/221119/224000</p> <p><u>HVAC:</u> Supplemental heat as required Div. 23 Independent ventilation Div. 23</p> <p><u>Electrical:</u> Fluorescent lighting 265100 Illumination level: See Table 8600-4 Single level switching 262726 4 duplex receptacles 262726 220 v service 262726</p> <p><u>Communications:</u> Central sound system 275123</p> <p><u>Electronic Safety and Security:</u> Life safety devices per code 283111</p> <p><u>Miscellaneous:</u> N/A</p>
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NOTES:

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

		Spec. Ref.#
Program Type:	6	
Size Requirements:	60 SF	
Requirements:		
<u>FINISHES:</u>	Spec. Ref #	
Flooring:		
Sealed concrete	033000	
Ceiling:		
Fire-rated gypsum drywall	092113	
Walls:		
Painted concrete masonry units	042000/ 099100	
<u>LOOSE FURNISHINGS:</u>		
N/A		
<u>ENVIRONMENTAL CONSIDERATIONS:</u>		
▪ Wall minimum STC 45		
▪ This room to be one-story (14'+/-) tall, located within high-bay program.		
		<u>FEATURES¹:</u>
		<u>Fixed Items:</u>
		3' of heavy duty adjustable steel shelving
		105613
		<u>Fire Suppression:</u>
		Fire suppression system
		211000
		<u>Plumbing:</u>
		N/A
		<u>HVAC:</u>
		Supplemental heat as required
		Div. 23
		Independent ventilation
		Div. 23
		<u>Electrical:</u>
		Fluorescent lighting
		265100
		Illumination level: See Table 8600-4
		Single level switching
		262726
		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.

CARPENTRY
CT-P6-1

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>PROGRAM DESCRIPTION:</u>	Classroom and laboratory experiences involving the layout, construction, and repair of residential and commercial structures. Included is instruction in the care and use of power tools, equipment, and materials used in the construction process; floor, wall, ceiling, and roof framing; the installation of insulation and roofing; and interior and exterior finish detail.	<u>FEATURES¹:</u>	Spec.
Program Type:	6	<u>Fixed Items:</u>	<u>Ref.#</u>
Size Requirements:	4,000 SF Lab	16' of chalk/marker board 101100 8' of tack board 101100 24' of tall storage cabinets 123550 Pencil sharpener support 062000 (3) Paper towel dispensers 102813 12'x14' motorized overhead sectional door to exterior 083613 3'x7' hollow metal service door to exterior 081113 Steel bollards at overhead door, both sides 055000 (2) Lumber storage racks 061000	
Lab Requirements:		<u>Fire Suppression:</u>	
		Fire suppression system 211000	
		<u>Plumbing:</u>	
<u>FINISHES:</u>	Spec. <u>Ref #</u>	1 washfountain (minimum) 224000 2 utility sinks (minimum) 224000 2 hose bibbs (minimum) 224000 Safety shower/eyewash 224000 6 compressed air connections 221500 2 floor drains 224000 1 trench drain 224000 Plumbing connections 221116/221119/224000	
Flooring: Sealed concrete	033000		
Ceiling: Painted, exposed structure	099100		
Walls: Painted concrete masonry units	042000/ 099100		
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
(12) Workbenches with heavy-duty wooden tops (24) Stools or chairs Wastebasket Pencil sharpener		Supply/return air system Div. 23 Independent temperature control 230923 Dust collection system 233513	
<u>Miscellaneous:</u>		<u>Electrical:</u>	
N/A		High intensity lighting or fluorescent lighting 265100 Illumination level: See Table 8600-4 Multilevel switching 262726 30 duplex receptacles (minimum) 262726 Double duplex receptacle adjacent to each data and video port 262726	
		<u>Communications:</u>	
		1 video port and video display device 271533/271543/274119 1 voice port and phone 271513/273113 4 data ports 271513 Clock 275313 Central sound system 275123	
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code 283111	

NOTES:

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

CARPENTRY
Material Storage

<p>Program Type: 6</p> <p>Size Requirements: 800 SF</p> <p>Requirements:</p> <p><u>FINISHES:</u> Flooring: Sealed concrete</p> <p>Ceiling: Suspended, acoustical</p> <p>Walls: Painted concrete masonry units</p> <p><u>LOOSE FURNISHINGS:</u> N/A</p> <p><u>ENVIRONMENTAL CONSIDERATIONS:</u></p> <ul style="list-style-type: none"> ▪ Wall minimum STC 45 ▪ This room to be one-story (14' +/-) tall, located within high-bay program. 	<p style="text-align: right;">Spec. Ref.#</p> <p><u>FEATURES¹:</u> <u>Fixed Items:</u> N/A</p> <p><u>Fire Suppression:</u> Fire suppression system 211000</p> <p><u>Plumbing:</u> N/A</p> <p><u>HVAC:</u> Supplemental heat as required Div. 23</p> <p><u>Electrical:</u> Fluorescent lighting 265100 Illumination level: See Table 8600-4 Single level switching 262726 4 duplex receptacles 262726</p> <p><u>Communications:</u> Central sound system 275123</p> <p><u>Electronic Safety and Security:</u> Life safety devices per code 283111</p> <p><u>Miscellaneous:</u> N/A</p>
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NOTES:

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

**CONSTRUCTION
CADD Room**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p>Program Type: 6</p> <p>Size Requirements: 400 SF</p> <p>Requirements:</p> <p><u>FINISHES:</u> Spec. Ref # Flooring: Vinyl composition tile, VET, 096500 rubber, sheet vinyl, or linoleum 096516</p> <p>Base: Resilient 096500</p> <p>Ceiling: Suspended acoustical 095113</p> <p>Walls: Painted concrete masonry units 042000/ 099100</p> <p><u>LOOSE FURNISHINGS:</u> (10) 2-person tables (20) Student chairs (1) Teacher station & chair Wastebasket</p> <p><u>ENVIRONMENTAL CONSIDERATIONS:</u></p> <ul style="list-style-type: none"> ▪ Wall minimum STC 50 ▪ This room to be one-story (14'+/-) tall, located within high-bay program. 	<p style="text-align: right;">Spec. Ref.#</p> <p><u>FEATURES¹:</u> <u>Fixed Items:</u> 6' of chalk/marker board 101100 8' of tall storage cabinets 123550 Projection screen, 6'x8' 115213</p> <p><u>Fire Suppression:</u> Fire suppression system 211000</p> <p><u>Plumbing:</u> N/A</p> <p><u>HVAC:</u> Supply/return air system Div. 23 Independent temperature control 230923</p> <p><u>Electrical:</u> Fluorescent lighting, parabolic lenses:265100 Illumination level: See Table 8600-4 Single level switching 262726 4 duplex receptacles 262726 Double duplex receptacle adjacent to each data port 262726</p> <p><u>Communications:</u> 1 data port near teacher workstation271513 22 data ports 271513 Central sound system 275123 Overhead projector 274119</p> <p><u>Electronic Safety and Security:</u> Life safety devices per code 283111</p> <p><u>Miscellaneous:</u> N/A</p>
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NOTES:

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

**ENGINEERING TECHNOLOGIES – Design
ENGINEERING TECHNOLOGIES – Process
ENGINEERING TECHNOLOGIES – Product / Service
ENGINEERING TECHNOLOGIES – Emerging
MATERIALS JOINING TECHNOLOGIES**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

CT-P6-1

PROGRAM DESCRIPTION:		Spec. Ref.#
<u>MJT:</u> Utilizes business and industry technical standards and a math, science, and technology framework to introduce concepts of pre-engineering related to robotics, material science, and nanofabrication in welding in the Project Lead The Way (PLTW) model and leads to a post secondary education.		
<u>ET-D, ET-P, ET-P/S:</u> A combination of subject matter and experiences designed to prepare a person to gain entry level experiences in an engineering technology cluster program, with the option of pursuing a two-year Associate's Degree. The program will follow an approved TCAP and will identify related employment positions locally available for students exiting Tech-Prep after high school.		
<u>ET-E:</u> Utilizes business and industry standards and a math, science, and technology framework to introduce pre-engineering skills, problem solving, and critical thinking in the areas of introduction to engineering, principals of engineering, digital electronics, and engineering design and development in the Project Lead The Way (PLTW) model and leads to post secondary education.		
Program Type:	6	
Size Requirements:	1,500 SF Lab	
Lab Requirements:		Spec. Ref #
<u>FINISHES:</u>		
Flooring:		
Sealed concrete	033000	
Ceiling:		
Painted, exposed structure	099100	
Walls:		
Painted concrete masonry units	042000/ 099100	
<u>LOOSE FURNISHINGS:</u>		
(12) Workbenches with heavy-duty metal tops		
(24) Stools or chairs		
(4) Welding tables		
Wastebasket		
Pencil sharpener		
<u>Electronic Safety and Security:</u>		
Life safety devices per code	283111	
<u>Miscellaneous:</u>	N/A	
<u>FEATURES¹:</u>		
<u>Fixed Items:</u>		
16' of chalk/marker board		101100
8' of tack board		101100
24' of tall storage cabinets		123550
Pencil sharpener support		062000
(3) Paper towel dispensers		102813
12'x14' motorized overhead sectional door to exterior		083613
3'x7' hollow metal service door to exterior		081113
Steel bollards at overhead door, both sides		055000
<u>Fire Suppression:</u>		
Fire suppression system		211000
<u>Plumbing:</u>		
1 washfountain (minimum)		224000
2 utility sinks (minimum)		224000
2 hose bibbs (minimum)		224000
Safety shower/eyewash		224000
6 compressed air connections		221500
2 floor drains		224000
1 trench drain		224000
Plumbing connections		221116/221119/224000
<u>HVAC:</u>		
Supply/return air system		Div. 23
Independent temperature control		230923
Welding hood and exhaust		233515
<u>Electrical:</u>		
High intensity lighting or fluorescent lighting		265100
Illumination level: See Table 8600-4		
Multilevel switching		262726
30 duplex receptacles (minimum)		262726
Double duplex receptacle adjacent to each data and video port		262726
(6) 220 volt receptacles		262726
<u>Communications:</u>		
1 video port and video display device		271533/271543/274119
1 voice port and phone		271513/273113
4 data ports		271513
Clock		275313
Central sound system		275123

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. This program has the option of being located in high bay or low bay (Type 3) space with associated features adjusted for the needs of the space, building type, and curriculum with OSFC approval.

**ENGINEERING TECHNOLOGIES
CADD Room**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p>Program Type: 6</p> <p>Size Requirements: 400 SF</p> <p>Requirements:</p> <p><u>FINISHES:</u> Flooring: Vinyl composition tile, VET, rubber, sheet vinyl, or linoleum</p> <p>Base: Resilient</p> <p>Ceiling: Suspended acoustical</p> <p>Walls: Painted concrete masonry units</p> <p><u>LOOSE FURNISHINGS:</u> (10) 2-person tables (20) Student chairs (1) Teacher station & chair Wastebasket</p> <p><u>ENVIRONMENTAL CONSIDERATIONS:</u></p> <ul style="list-style-type: none"> ▪ Wall minimum STC 50 ▪ This room to be one-story (14'+/-) tall, located within high-bay program. 	<p style="text-align: right;">Spec. <u>Ref.#</u></p> <p><u>FEATURES¹:</u> <u>Fixed Items:</u> 6' of chalk/marker board 101100 8' of tall storage cabinets 123550 Projection screen, 6'x8' 115213</p> <p><u>Fire Suppression:</u> Fire suppression system 211000</p> <p><u>Plumbing:</u> N/A</p> <p><u>HVAC:</u> Supply/return air system Div. 23 Independent temperature control 230923</p> <p><u>Electrical:</u> Fluorescent lighting, parabolic lenses:265100 Illumination level: See Table 8600-4 Single level switching 262726 4 duplex receptacles 262726 Double duplex receptacle adjacent to each data port 262726</p> <p><u>Communications:</u> 1 data port near teacher workstation 271513 22 data ports 271513 Central sound system 275123 Overhead projector 274119</p> <p><u>Electronic Safety and Security:</u> Life safety devices per code 283111</p> <p><u>Miscellaneous:</u> N/A</p>
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NOTES:

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

FOOD SCIENCE AND TECHNOLOGY

CHAPTER 6: CAREER-TECHNICAL SCHOOL

CT-P6-1

<u>PROGRAM DESCRIPTION:</u>	<u>FEATURES¹:</u>	Spec.
Food Science is a program area where the opportunities for program completers are limitless. Students may begin their study in agriculture's foundation program Agriscience. The following are areas of study specific to food science; Safety Precautions, Sanitation, Livestock Purchasing, Slaughtering, Carcass Grading, Wholesale Processing, Retail Meat Processing, and Merchandising, Dairy and Poultry Products, Fish and Fish Products, Fruits and Vegetables, Grains, Preservation of Agricultural Products, Customer Service, Marketing, Product Handling, Business Management, Decision Making and Problem Solving, Work Ethic, Job-Seeking Skills, Technology in the Workplace, Economic Education, Citizenship in the Workplace, Leadership.	<u>Fixed Items:</u>	<u>Ref.#</u>
Program Type: 6	16' of chalk/marker board	101100
Size Requirements: 2,000 SF Lab	8' of tack board	101100
Lab Requirements:	Pencil sharpener support	062000
<u>FINISHES:</u>	(3) Paper towel dispensers	102813
Flooring:	12'x14' motorized overhead	
Sealed concrete	sectional door to exterior	083613
Option: Epoxy, resinous flooring	3'x7' hollow metal service door	081113
Ceiling:	to exterior	081113
Painted, exposed structure	Steel bollards at overhead door,	055000
Walls:	both sides	055000
Painted concrete masonry units	Overhead hoist system between lab,	412223
042000/	freezer, and cooler	412223
099100	<u>Fire Suppression:</u>	
Option: Fiberglass reinforced plastic panels	Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>	<u>Plumbing:</u>	
(8) Workbenches with heavy-duty	1 washfountain (minimum)	224000
stainless steel tops	2 utility sinks (minimum)	224000
(24) Stools or chairs (stainless steel)	2 hose bibbs (minimum)	224000
Wastebasket	Safety shower/eyewash	224000
Pencil sharpener	2 floor drains	224000
<u>NOTES:</u>	1 trench drain	224000
1. Finishes/Features: Refer to Chapter 9 for specification references.	Plumbing connections	221116/221119/224000
Ohio School Design Manual-CT	<u>HVAC:</u>	
Ohio School Facilities Commission	Supply/return air system	Div. 23
6316 - 23	Independent temperature control	230923
2008	<u>Electrical:</u>	
	High intensity lighting or	265100
	fluorescent lighting	
	Illumination level: See Table 8600-4	
	Multilevel switching	262726
	20 duplex receptacles (minimum)	262726
	Double duplex receptacle adjacent to	
	each data and video port	262726
	(2) 220 volt receptacles	262726
	<u>Communications:</u>	
	1 video port and video display device	271533/271543/274119
	1 voice port and phone	271513/273113
	4 data ports	271513
	Clock	275313
	Central sound system	275123
	<u>Electronic Safety and Security:</u>	
	Life safety devices per code	283111
	<u>Miscellaneous:</u>	
	N/A	

FOOD SCIENCE AND TECHNOLOGY
Freezer

<p>Program Type: 6</p> <p>Size Requirements: 400 SF</p> <p>Requirements:</p> <p><u>FINISHES:</u> Flooring: Quarry tile</p> <p>Ceiling: Quarry tile base</p> <p>Walls: Manufactured insulated panel</p> <p><u>LOOSE FURNISHINGS:</u> N/A</p> <p><u>ENVIRONMENTAL CONSIDERATIONS:</u></p> <ul style="list-style-type: none"> ▪ Uniform lighting ▪ Ventilation for refrigeration machinery ▪ Cleanable building surfaces ▪ Floor to be flush with adjacent kitchen floor 	<p style="text-align: right;">Spec. Ref.#</p> <p><u>FEATURES¹:</u> <u>Fixed Items:</u> Overhead hoist system</p> <p><u>Fire Suppression:</u> Fire suppression system</p> <p><u>Plumbing:</u> N/A</p> <p><u>HVAC:</u> Exhaust air system for compressors Div. 23</p> <p><u>Electrical:</u> Incandescent lighting Illumination level: See Table 8600-4 Single level switching Electrical connections to freezer Refrigeration equipment</p> <p><u>Communications:</u> N/A</p> <p><u>Electronic Safety and Security:</u> N/A</p> <p><u>Miscellaneous:</u> N/A</p>
	<p>412223</p> <p>211000</p> <p>093000</p> <p>093000</p> <p>114000</p> <p>265100</p> <p>262726</p> <p>262726</p>

NOTES:

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

FOOD SCIENCE AND TECHNOLOGY

CHAPTER 6: CAREER-TECHNICAL SCHOOL

Cooler

<p>Program Type: 6</p> <p>Size Requirements: 400 SF</p> <p>Requirements:</p> <p><u>FINISHES:</u> Flooring: Spec. Ref # Quarry tile 093000</p> <p>Ceiling: 093000 Quarry tile base</p> <p>Walls: 114000 Manufactured insulated panel</p> <p><u>LOOSE FURNISHINGS:</u> N/A</p> <p><u>ENVIRONMENTAL CONSIDERATIONS:</u></p> <ul style="list-style-type: none"> ▪ Uniform lighting ▪ Ventilation for refrigeration machinery ▪ Cleanable building surfaces ▪ Floor to be flush with adjacent kitchen floor 	<p align="right">Spec. Ref.#</p> <p><u>FEATURES¹:</u> <u>Fixed Items:</u> Overhead hoist system 412223</p> <p><u>Fire Suppression:</u> Fire suppression system 211000</p> <p><u>Plumbing:</u> N/A</p> <p><u>HVAC:</u> Exhaust air system for compressors Div. 23</p> <p><u>Electrical:</u> Incandescent lighting 265100 Illumination level: See Table 8600-4 Single level switching 262726 Electrical connections to cooler refrigeration equipment 262726</p> <p><u>Communications:</u> N/A</p> <p><u>Electronic Safety and Security:</u> N/A</p> <p><u>Miscellaneous:</u> N/A</p>
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NOTES:

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

FOOD SCIENCE AND TECHNOLOGY

Retail

CHAPTER 6: CAREER-TECHNICAL SCHOOL

Program Type: 6		FEATURES¹:	Spec.
Size Requirements: 400 SF		<u>Fixed Items:</u>	<u>Ref.#</u>
Requirements:		12' of solid surface counter with storage below	062000
		Cashier's station	123550
		Paper towel dispenser	102813
	Spec.	12'x14' motorized overhead sectional door to exterior	083613
<u>FINISHES:</u>	<u>Ref #</u>	3'x7' hollow metal service door to exterior	081113
Flooring:		Steel bollards at overhead door, both sides	055000
Vinyl composition tile, VET, sheet vinyl, or linoleum	096500		
	096516		
Base:		<u>Fire Suppression:</u>	
Resilient	096500	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Suspended, acoustical	095113	1 utility sink	224000
Walls:		Plumbing connections	221116/221119/224000
Painted concrete masonry units	042000/ 099100		
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
Wastebasket		Supply/return air system	Div. 23
		Independent temperature control	230923
		<u>Electrical:</u>	
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		Single level switching	262726
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to each data port	262726
		<u>Communications:</u>	
		1 data ports	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.

<u>PROGRAM DESCRIPTION:</u>	<p>Programs focus on the culture of ornamental plants and vegetable crops. Completers have the opportunity for employment in floral design, landscape design, turfgrass management, garden and nursery product sales. The program area offers units of instruction in Greenhouse Production and Maintenance, Equipment Maintenance and Operation, Floral Design, Turf and Landscape Operations, Nursery and Garden Operations, Marketing and Sales, Merchandise Handling, and Business Management.</p>	<u>FEATURES¹:</u>	Spec.
Program Type:	6	<u>Fixed Items:</u>	<u>Ref.#</u>
Size Requirements:	2,000 SF Lab	<p>16' of chalk/marker board 101100 8' of tack board 101100 24' of tall storage cabinets 123550 Pencil sharpener support 062000 (3) Paper towel dispensers 102813 12'x14' motorized overhead sectional door to exterior 083613 3'x7' hollow metal service door to exterior 081113 Steel bollards at overhead door, both sides 055000</p>	
Lab Requirements:		<u>Fire Suppression:</u>	
		Fire suppression system 211000	
		<u>Plumbing:</u>	
		<p>1 washfountain (minimum) 224000 2 utility sinks (minimum) 224000 2 hose bibbs (minimum) 224000 Safety shower/eyewash 224000 2 floor drains 224000 1 trench drain 224000 Plumbing connections 221116/221119/224000</p>	
<u>FINISHES:</u>	Spec. <u>Ref #</u>	<u>HVAC:</u>	
Flooring:		<p>Supply/return air system Div. 23 Independent temperature control 230923</p>	
Sealed concrete	033000	<u>Electrical:</u>	
Ceiling:		<p>High intensity lighting or fluorescent lighting 265100 Illumination level: See Table 8600-4 Multilevel switching 262726 30 duplex receptacles (minimum) 262726 Double duplex receptacle adjacent to each data and video port 262726</p>	
Painted, exposed structure	099100	<u>Communications:</u>	
Walls:		<p>1 video port and video display device 271533/271543/274119 1 voice port and phone 271513/273113 4 data ports 271523 Clock 275313 Central sound system 275123</p>	
Painted concrete masonry units	042000/ 099100	<u>Electronic Safety and Security:</u>	
<u>LOOSE FURNISHINGS:</u>		Life safety devices per code 283111	
(12) Workbenches with heavy-duty metal tops		<u>Miscellaneous:</u>	
(24) Stools or chairs		N/A	
Wastebasket			
Pencil sharpener			
<u>SITE FEATURES:</u>			
Greenhouse – 3,000 SF	133413		
½ earth flooring, ½ concrete flooring (w/drains)			
Minimum of one 8'x10' overhead door			
Provide electrical, plumbing, and heating/ventilation systems as per greenhouse manufacturer's recommendations			
Minimum of 4 hose bibs			
Fire suppression system if required			

NOTES:

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

HORTICULTURE
Retail

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p>Program Type: 6</p> <p>Size Requirements: 400 SF</p> <p>Requirements:</p> <p><u>FINISHES:</u> Spec. Ref # Flooring: Vinyl composition tile, VET, sheet 096500 vinyl, or linoleum 096516</p> <p>Base: Resilient 096500</p> <p>Ceiling: Suspended, acoustical 095113</p> <p>Walls: Painted concrete masonry units 042000/099100</p> <p><u>LOOSE FURNISHINGS:</u> Wastebasket</p> <p><u>ENVIRONMENTAL CONSIDERATIONS:</u></p> <ul style="list-style-type: none"> ▪ Wall minimum STC 40 ▪ Ceiling minimum CAC 35 ▪ This room to be one-story (14'+/-) tall, located within high-bay program. 	<p style="text-align: right;">Spec. Ref.#</p> <p><u>FEATURES¹:</u> <u>Fixed Items:</u> 10' of base cabinets 123550 4' of cashier's station 123550 Paper towel dispenser 102813</p> <p><u>Fire Suppression:</u> Fire suppression system 211000</p> <p><u>Plumbing:</u> 1 utility sink 224000 Plumbing connections 221116/221119/224000</p> <p><u>HVAC:</u> Supply/return air system Div. 23 Independent temperature control 230923</p> <p><u>Electrical:</u> Fluorescent lighting 265100 Illumination level: See Table 8600-4 Single level switching 262726 4 duplex receptacles 262726 Double duplex receptacle adjacent to each data port 262726</p> <p><u>Communications:</u> 1 data port 271513 Clock 275313 Central sound system 275123</p> <p><u>Electronic Safety and Security:</u> Life safety devices per code 283111</p> <p><u>Miscellaneous:</u> N/A</p>
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NOTES:

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

MEDIUM/HEAVY TRUCK TECHNICIAN

CT-P6-1

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>PROGRAM DESCRIPTION:</u>	An instructional program that prepares individuals to engage in the service and repair of truck vehicles. Instruction is included in the diagnosis, maintenance, and repair of diesel engines, including fuel injection systems, the drive train, suspension, brakes, hydraulic units, cooling systems, and electrical/electronic systems. The program also includes the study and use of technical manuals, testing and diagnostic equipment, and a variety of hand and power tools.	<u>FEATURES¹:</u>	Spec.																
Program Type:	6	<u>Fixed Items:</u>	<u>Ref.#</u>																
Size Requirements:	6,000 SF Lab	<table border="0"> <tr><td>16' of chalk/marker board</td><td>101100</td></tr> <tr><td>8' of tack board</td><td>101100</td></tr> <tr><td>24' of tall storage cabinets</td><td>123550</td></tr> <tr><td>Pencil sharpener support</td><td>062000</td></tr> <tr><td>(4) Paper towel dispensers</td><td>102813</td></tr> <tr><td>12'x14' motorized overhead sectional door to exterior</td><td>083613</td></tr> <tr><td>3'x7' hollow metal service door to exterior</td><td>081113</td></tr> <tr><td>Steel bollards at overhead door, both sides</td><td>055000</td></tr> </table>	16' of chalk/marker board	101100	8' of tack board	101100	24' of tall storage cabinets	123550	Pencil sharpener support	062000	(4) Paper towel dispensers	102813	12'x14' motorized overhead sectional door to exterior	083613	3'x7' hollow metal service door to exterior	081113	Steel bollards at overhead door, both sides	055000	
16' of chalk/marker board	101100																		
8' of tack board	101100																		
24' of tall storage cabinets	123550																		
Pencil sharpener support	062000																		
(4) Paper towel dispensers	102813																		
12'x14' motorized overhead sectional door to exterior	083613																		
3'x7' hollow metal service door to exterior	081113																		
Steel bollards at overhead door, both sides	055000																		
Lab Requirements:		<u>Fire Suppression:</u>																	
<u>FINISHES:</u>	Spec.	Fire suppression system	211000																
Flooring:	<u>Ref #</u>	<u>Plumbing:</u>																	
Sealed concrete	033000	2 washfountains (minimum)	224000																
Ceiling:		2 utility sinks (minimum)	224000																
Painted, exposed structure	099100	2 hose bibbs (minimum)	224000																
Walls:		Safety shower/eyewash	224000																
Painted concrete masonry units	042000/	8 compressed air connections	221500																
	099100	4 floor drains	224000																
		1 trench drain	224000																
		Plumbing connections	221116/221119/224000																
		<u>HVAC:</u>																	
		Supply/return air system	Div. 23																
		Independent temperature control	230923																
		Vehicle exhaust system	Div. 23																
		<u>Electrical:</u>																	
<u>LOOSE FURNISHINGS:</u>		High intensity lighting or	265100																
(8) Workbenches with heavy-duty metal tops		fluorescent lighting																	
(24) Stools or chairs		Illumination level: See Table 8600-4																	
Wastebasket		Multilevel switching	262726																
Pencil sharpener		30 duplex receptacles (minimum)	262726																
		Double duplex receptacle adjacent to																	
		each data and video port	262726																
<u>Miscellaneous:</u>		(6) 220 volt receptacles	262726																
N/A		<u>Communications:</u>																	
		1 video port and video display device																	
		271533/271543/274119																	
The following items are to be funded by the School District:		1 voice port and phone	271513/273113																
Truck lifts		4 data ports	271513																
Frame rack		Clock	275313																
		Central sound system	275123																
		<u>Electronic Safety and Security:</u>																	
		Life safety devices per code	283111																

NOTES:

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

**MEDIUM/HEAVY TRUCK TECHNICIAN
Engine Storage**

<p>Program Type: 6</p> <p>Size Requirements: 800 SF</p> <p>Requirements:</p> <p><u>FINISHES:</u> Flooring: Sealed concrete Ceiling: Suspended, acoustical Option: painted, exposed structure Walls: Painted concrete masonry units</p> <p><u>LOOSE FURNISHINGS:</u> N/A</p> <p><u>ENVIRONMENTAL CONSIDERATIONS:</u></p> <ul style="list-style-type: none"> ▪ Wall minimum STC 45 ▪ This room to be one-story (14' +/-) tall, located within high-bay program. 	<p style="text-align: right;">Spec. Ref.#</p> <p><u>FEATURES¹:</u> <u>Fixed Items:</u> Pair of doors</p> <p><u>Fire Suppression:</u> Fire suppression system</p> <p><u>Plumbing:</u> N/A</p> <p><u>HVAC:</u> Supplemental heat as required Independent ventilation</p> <p><u>Electrical:</u> Fluorescent lighting Illumination level: See Table 8600-4 Single level switching 4 duplex receptacles</p> <p><u>Communications:</u> Central sound system</p> <p><u>Electronic Safety and Security:</u> Life safety devices per code</p> <p><u>Miscellaneous:</u> N/A</p>
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NOTES:

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

**MEDIUM/HEAVY TRUCK TECHNICIAN
Machine Room**

Program Type: 6	Spec. Ref #	<u>FEATURES¹:</u>	Spec. Ref.#
Size Requirements: 900 SF		<u>Fixed Items:</u>	
		16' of tall cabinets Paper towel dispenser	123550 102813
Requirements:		<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>FINISHES:</u>		<u>Plumbing:</u>	
Flooring:		Utility sink Plumbing connections	224000
Sealed concrete	033000	221116/221119/224000	
Ceiling:		<u>HVAC:</u>	
Suspended, acoustical	095113	Supplemental heat as required	Div. 23
Option: painted, exposed structure	099100	Independent ventilation	Div. 23
Walls:		<u>Electrical:</u>	
Painted concrete masonry units	042000/ 099100	Fluorescent lighting Illumination level: See Table 8600-4 Single level switching 4 duplex receptacles 220 v service	265100 262726 262726 262726
<u>LOOSE FURNISHINGS:</u>		<u>Communications:</u>	
(4) Work tables		Central sound system	275123
Wastebasket		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
<u>ENVIRONMENTAL CONSIDERATIONS:</u>		<u>Miscellaneous:</u>	
<ul style="list-style-type: none"> ▪ Wall minimum STC 50 ▪ This room to be one-story (14'+/-) tall, located within high-bay program. 		N/A	

NOTES:

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

<p><u>PROGRAM DESCRIPTION:</u> Specialized classroom and shop learning experiences that are concerned with all aspects of shaping metal parts. Instruction involves making computations relating to work dimensions, tooling, feeds, and speeds of machining. Also emphasized is work on the bench, lathes, shapers, milling machines, grinders, and drills; the use of precision measuring instruments, such as layout tools, micrometers, and gauges; methods of machining and heat treatment of various metals; blueprint reading; and the layout of machine parts. Instruction prepares the learner to operate and repair all machines including those with computerized numerical controls (CNC). Programs will be certified by National Institute for Metalworking Skills (NIMS).</p> <p>Program Type: 6</p> <p>Size Requirements: 3,500 SF Lab</p> <p>Lab Requirements:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 35%;"></td> <td style="width: 10%; text-align: center;">Spec.</td> <td style="width: 55%;"></td> </tr> <tr> <td></td> <td style="text-align: center;"><u>Ref #</u></td> <td></td> </tr> <tr> <td><u>FINISHES:</u></td> <td></td> <td></td> </tr> <tr> <td>Flooring:</td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Sealed concrete</td> <td style="text-align: center;">033000</td> <td></td> </tr> <tr> <td>Ceiling:</td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Painted, exposed structure</td> <td style="text-align: center;">099100</td> <td></td> </tr> <tr> <td>Walls:</td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Painted concrete masonry units</td> <td style="text-align: center;">042000/ 099100</td> <td></td> </tr> <tr> <td><u>LOOSE FURNISHINGS:</u></td> <td></td> <td></td> </tr> <tr> <td>(6) Workbenches with heavy-duty metal tops</td> <td></td> <td></td> </tr> <tr> <td>(24) Stools or chairs</td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Wastebasket</td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Pencil sharpener</td> <td></td> <td></td> </tr> </table>		Spec.			<u>Ref #</u>		<u>FINISHES:</u>			Flooring:			Sealed concrete	033000		Ceiling:			Painted, exposed structure	099100		Walls:			Painted concrete masonry units	042000/ 099100		<u>LOOSE FURNISHINGS:</u>			(6) Workbenches with heavy-duty metal tops			(24) Stools or chairs			Wastebasket			Pencil sharpener			<table style="width: 100%; border: none;"> <tr> <td style="width: 5%;"></td> <td style="width: 45%;"><u>FEATURES¹:</u></td> <td style="width: 50%;"></td> </tr> <tr> <td></td> <td><u>Fixed Items:</u></td> <td style="text-align: right;">Spec. 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NOTES:

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

**PRECISION MACHINING
CNC Room**

Program Type: 6			FEATURES¹:	Spec.
Size Requirements: 900 SF			Fixed Items:	Ref.#
			20' of plastic laminate counter	123550
			20' of adjustable shelving	062000
Requirements:			Fire Suppression:	
	Spec.		Fire suppression system	211000
	Ref #			
FINISHES:			Plumbing:	
Flooring:			N/A	
Sealed concrete		033000		
Ceiling:			HVAC:	
Suspended, acoustical		095113	Supplemental heat as required	Div. 23
Option: painted, exposed structure		099100	Independent ventilation	Div. 23
Walls:			Electrical:	
Painted concrete masonry units		042000/ 099100	Fluorescent lighting	265100
			Illumination level: See Table 8600-4	
			Single level switching	262726
			4 duplex receptacles	262726
			Double duplex receptacle adjacent to	
			each data port	262726
			220v service	262726
LOOSE FURNISHINGS:			Communications:	
(4) Chairs			Central sound system	275123
			6 data ports	271513
			Electronic Safety and Security:	
			Life safety devices per code	283111
ENVIRONMENTAL CONSIDERATIONS:			Miscellaneous:	
▪ Wall minimum STC 50			N/A	
▪ This room to be one-story (14'+/-) tall, located within high-bay program.				

NOTES:

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

		Spec. Ref.#	
Program Type:	6		
Size Requirements:	150 SF		
Requirements:			
<u>FINISHES:</u>	Spec. Ref #		
Flooring:			
Sealed concrete	033000		
Ceiling:			
Suspended, acoustical	095113		
Option: painted, exposed structure	099100		
Walls:			
Painted concrete masonry units	042000/ 099100		
<u>LOOSE FURNISHINGS:</u>			
(1) Work table			
<u>ENVIRONMENTAL CONSIDERATIONS:</u>			
▪ Wall minimum STC 45			
▪ This room to be one-story (14' +/-) tall, located within high-bay program.			
		<u>FEATURES¹:</u>	
		<u>Fixed Items:</u>	
		4' of tall storage	123550
		<u>Fire Suppression:</u>	
		Fire suppression system	211000
		<u>Plumbing:</u>	
		N/A	
		<u>HVAC:</u>	
		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		Single level switching	262726
		4 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.

**WOOD PRODUCT TECHNOLOGIES
CT-P6-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>PROGRAM DESCRIPTION:</u>		<u>FEATURES¹:</u>	Spec. <u>Ref.#</u>
Utilizing business and industry, math, science, and technology standards, introduces concepts of wood product materials and technologies; design and production of window frames, molding, trims and panels; and wood crafting skills including the design and manufacture of wood products such as furniture, moldings, trim, fixtures, and cabinetry.		<u>Fixed Items:</u>	
		16' of chalk/marker board	101100
		8' of tack board	101100
		24' of tall storage cabinets	123550
		Pencil sharpener support	062000
		(3) Paper towel dispensers	102813
		12'x14' motorized overhead sectional door to exterior	083613
		3'x7' hollow metal service door to exterior	081113
		Steel bollards at overhead door, both sides	055000
Program Type:	6		
Size Requirements:	3,000 SF Lab	<u>Fire Suppression:</u>	
		Fire suppression system	211000
Lab Requirements:		<u>Plumbing:</u>	
		1 washfountain (minimum)	224000
		2 utility sinks (minimum)	224000
		2 hose bibbs (minimum)	224000
		Safety shower/eyewash	224000
		2 floor drains	224000
		1 trench drain	224000
		Plumbing connections	221116/221119/224000
		<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Independent temperature control	230923
		Dust collection system	233513
		<u>Electrical:</u>	
		High intensity lighting or fluorescent lighting	265100
		illumination level: See Table 8600-4	
		Multilevel switching	262726
		30 duplex receptacles (minimum)	262726
		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u>	
		1 video port and video display device	271533/271543/274119
		1 voice port and phone	271513/273113
		4 data ports	271513
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	
<u>FINISHES:</u>			
		Spec.	<u>Ref #</u>
Flooring:			
Sealed concrete		033000	
Ceiling:			
Painted, exposed structure		099100	
Walls:			
Painted concrete masonry units		042000/	
		099100	
<u>LOOSE FURNISHINGS:</u>			
(12) Workbenches with heavy-duty wooden tops			
(24) Stools or chairs			
Wastebasket			
Pencil sharpener			

NOTES:

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

WOOD PRODUCT TECHNOLOGIES
Finishing Room

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p>Program Type: 6</p> <p>Size Requirements: 500 SF</p> <p>Requirements:</p> <p><u>FINISHES:</u> Flooring: Sealed concrete</p> <p>Ceiling: Suspended, acoustical Option: painted, exposed structure</p> <p>Walls: Painted concrete masonry units</p> <p><u>LOOSE FURNISHINGS:</u> (2) Work tables</p> <p><u>ENVIRONMENTAL CONSIDERATIONS:</u></p> <ul style="list-style-type: none"> ▪ Wall minimum STC 50 ▪ This room to be one-story (14'+/-) tall, located within high-bay program. 	<p style="text-align: right;">Spec. Ref.#</p> <p><u>FEATURES¹:</u> <u>Fixed Items:</u> 16' of pegboard Pair of doors</p> <p><u>Fire Suppression:</u> Fire suppression system</p> <p><u>Plumbing:</u> N/A</p> <p><u>HVAC:</u> Supplemental heat as required Independent ventilation</p> <p><u>Electrical:</u> Fluorescent lighting Illumination level: See Table 8600-4 Single level switching 4 duplex receptacles</p> <p><u>Communications:</u> Central sound system Clock</p> <p><u>Electronic Safety and Security:</u> Life safety devices per code</p> <p><u>Miscellaneous:</u> N/A</p>
	<p>060565 081113</p> <p>211000</p> <p></p> <p></p> <p>Div. 23 Div. 23</p> <p>265100 262726 262726</p> <p>275123 275313</p> <p>283111</p>

NOTES:

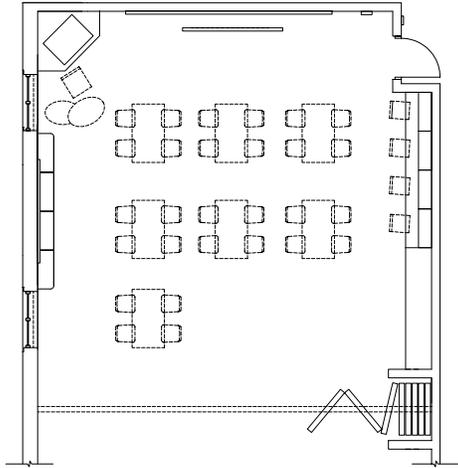
1. Finishes/Features: Refer to Chapter 9 for specification references.

WOOD PRODUCT TECHNOLOGIES
Material Storage

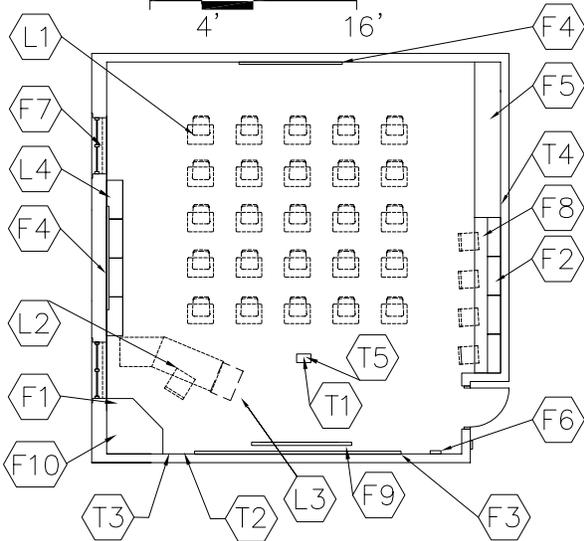
		Spec. Ref.#	
Program Type:	6		
Size Requirements:	800 SF		
Requirements:			
<u>FINISHES:</u>	Spec. Ref #		
Flooring:			
Sealed concrete	033000		
Ceiling:			
Suspended, acoustical	095113		
Option: painted, exposed structure	099100		
Walls:			
Painted concrete masonry units	042000/ 099100		
<u>LOOSE FURNISHINGS:</u>			
	N/A		
<u>ENVIRONMENTAL CONSIDERATIONS:</u>			
▪ Wall minimum STC 45			
▪ This room to be one-story (14' +/-) tall, located within high-bay program.			
		<u>FEATURES¹:</u>	
		<u>Fixed Items:</u>	
		N/A	
		<u>Fire Suppression:</u>	
		Fire suppression system	211000
		<u>Plumbing:</u>	
		N/A	
		<u>HVAC:</u>	
		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		Single level switching	262726
		4 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.



CLASSROOM WITH OPTIONAL FOLDING WALL



TYPICAL CLASSROOM

CAPACITY: 25 students
SIZE: 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 related lab
- 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
- Proximity to main corridor to accommodate other students without interrupting lab

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

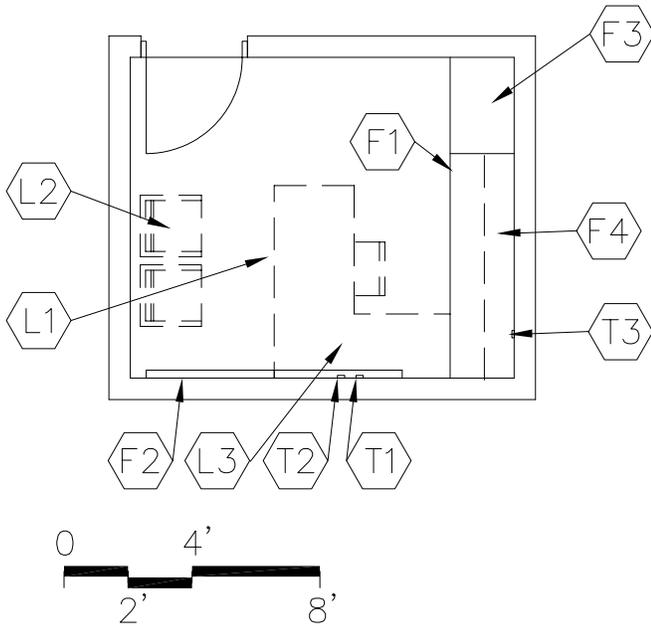
**RELATED CLASSROOM
CT-P6-2**

CHAPTER 6: CAREER-TECHNICAL HIGH SCHOOL

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

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Technology components may be placed in a separate small cabinet, or integrated in the other casework in the room.
3. Where appropriate, some casework may be mobile to add flexibility and become part of the loose furnishings.



PROGRAM ACTIVITIES:

- Private space for program instructor
- One-on-one conferences with academic instructors, students, etc.

SPATIAL RELATIONSHIPS:

- Near related lab
- Direct access to school circulation areas

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY: 1 - 3 persons
SIZE: 120 SF

NOTES:

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

**OFFICE
CT-P6-3**

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

NOTES:

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

PROGRAM ACTIVITIES:

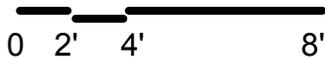
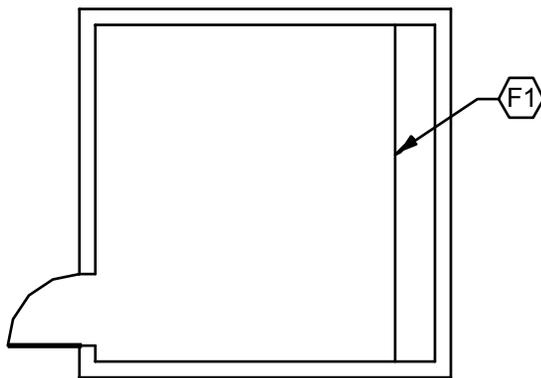
- Space for storage of lab equipment

SPATIAL RELATIONSHIPS:

- Near related lab

ENVIRONMENTAL CONSIDERATIONS:

N/A



CAPACITY:
SIZE:

N/A
200 SF

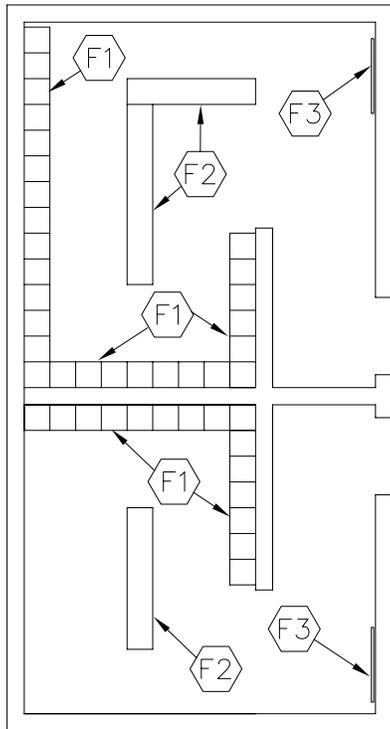
NOTES:

**STORAGE AREA
CT-P6-4**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items¹:</u>	
Sealed concrete	033000	F1 8'-20' of open shelving	
		Depth may vary (fixed or loose)	123550
Base:		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Exposed structure	---	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>	
N/A		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		Duplex receptacles	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



PROGRAM ACTIVITIES:

- Personal and health needs for the program
Specific users.
- Changing of clothes and/or uniforms.
- Storage of personal items while students are in lab.

SPATIAL RELATIONSHIPS:

- Adjacent to related lab

ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting
- Sanitary and durable finishes.
- Environmental sound control
Wall minimum STC 40
Ceiling minimum CAC 35, NRC **0.70**

CAPACITY: N/A
SIZE: 9 SF per student (see Note 2)

NOTES:

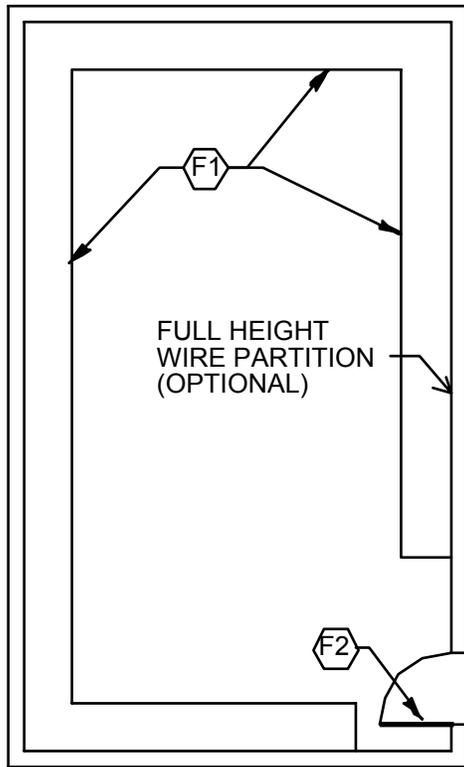
1. Large and small changing areas are interchangeable for either males or females.
Determination based on male/female ratio within each program.
2. Student count determined by total number of approved program spaces Types 5, 6, and 7 times 30.

**CHANGING ROOM
CT-P6-5**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items¹:</u>	
Sealed concrete	033000	F1 Student lockers	105113
Optional: Vinyl composition tile, linoleum, or rubber	096500 096516	F2 Locker benches	062000
		F3 24" x 60" mirror	102813
<u>Base:</u>		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
<u>Ceiling:</u>		<u>Plumbing:</u>	
Suspended, acoustical with high impact hold down clips	095113	N/A	
<u>Walls:</u>		<u>HVAC:</u>	
Painted concrete masonry units	042000 / 099100	Supply/Return air system	Div. 23
		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		Individual temperature control	230923
<u>LOOSE FURNISHINGS</u>		<u>Electrical:</u>	
Wastebaskets		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		2 Duplex receptacles	262726
		Means of egress lighting per code	265100
		<u>Communications:</u>	
		Clock	275313
		Central Sound System	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



CAPACITY: N/A
 SIZE: 550 SF
 ANCILLARY SPACES:

PROGRAM ACTIVITIES:

- Storage of program related tools and instruments.
- Storage of students' tools.

SPATIAL RELATIONSHIPS:

- Adjacent to related lab

ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting
- Sanitary and durable finishes

NOTES:

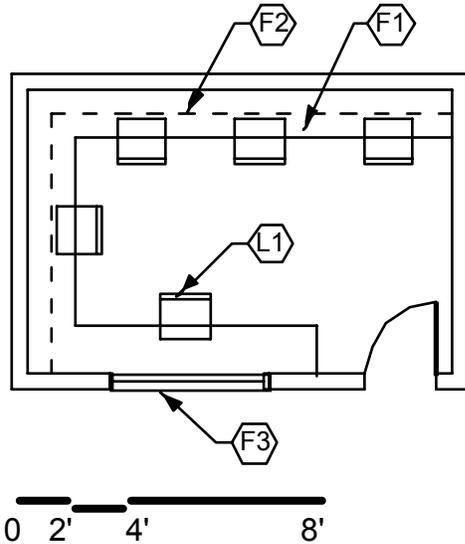
**TOOL CRIB
CT-P6-6**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<u>Fixed Items¹:</u>	
Sealed concrete	033000	F1 80' of open metal shelving (total),	
Optional: Vinyl composition tile,	096500	Depth may vary (fixed or loose)	105613
linoleum, or rubber	096516	F2 Dutch door	105613
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		Exhaust air system	Div. 23
	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 8600-4	
		4 Duplex receptacles	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



PROGRAM ACTIVITIES:

- Individual computer research.
- Reference program specific manuals.
- Small group meetings.

SPATIAL RELATIONSHIPS:

- Adjacent to related lab

ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting
- Sanitary and durable finishes
- Environmental sound control
Wall minimum STC 50
Ceiling minimum CAC 35, NRC **0.70**

CAPACITY:
SIZE:

N/A
200 SF

NOTES:

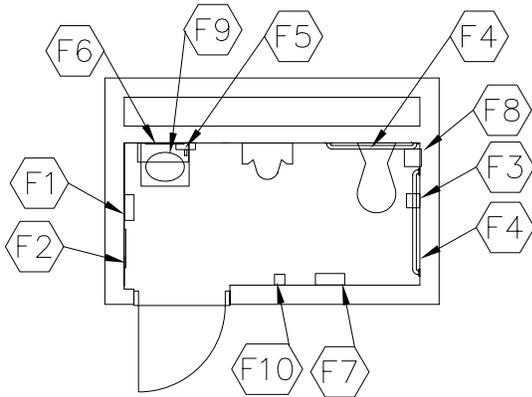
**REFERENCE ROOM
CT-P6-7**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<u>Fixed Items:</u>	
Sealed concrete	033000	F1 34' of plastic lam. counter	062000
Optional: Vinyl composition tile,	096500	F2 27' of adjustable shelving	062000
		F3 Interior window	081113/ 088000
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
		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
<u>LOOSE FURNISHINGS</u>		<u>Electrical:</u>	
L3 Student chairs		Single level switching	262726
Wastebasket		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		2 Duplex receptacles	262726
		Duplex receptacle adjacent to	
		Each data and video port	262726
		<u>Communications:</u>	
		T1 6 data ports	271513
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



PROGRAM ACTIVITIES:

- Personal and health needs for the program
- Specific users
- Changing of clothes and/or uniforms.

SPATIAL RELATIONSHIPS:

- Adjacent to related lab

ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting
- Sanitary and durable finishes.
- Environmental sound control
 Wall minimum **STC 48**
 Ceiling minimum **CAC 35, NRC 0.70**

CAPACITY:
SIZE:

N/A
68 SF

NOTES:

**TOILET ROOM
CT-P6-8**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

	Spec. Ref.#
<u>FINISHES¹:</u>	
Sealed concrete	033000
Optional: Vinyl composition tile	096500
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000 / 099100

LOOSE FURNISHINGS
Wastebaskets

	Spec. Ref.#
<u>FEATURES¹:</u>	
<u>Fixed Items:</u>	
F1 Towel dispenser	102813
F2 24" x 60" mirror	102813
F3 Toilet tissue holder	102813
F4 36" and 42" grab bars	102813
F5 Soap dispenser	102813
F6 16" x 24" mirror	102813
F7 Sanitary product dispenser	102813
F8 Sanitary product receptacle	102813
F9 Stainless steel shelf (optional)	102813
F10 Coat hook	102813

<u>Fire Suppression:</u>	
Fire suppression system	211000

<u>Plumbing:</u>	
Plumbing connections	221116/221119/224000

<u>HVAC:</u>	
Supply/return air system	Div. 23
Exhaust air system	Div. 23
Supplemental heat as required	Div. 23
Individual temperature control	230923

<u>Electrical:</u>	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
2 Duplex receptacles	262726
Means of egress lighting per code	265100

<u>Communications:</u>	
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.

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Program Type 7

Description: Large to very large-sized lab space with enhanced support space.

Lab space to be "high-bay" (**18'** min. clearance) with exposed building structure.

Lab to utilize standard construction with the following exception – lab floor slab to be 8" thick.

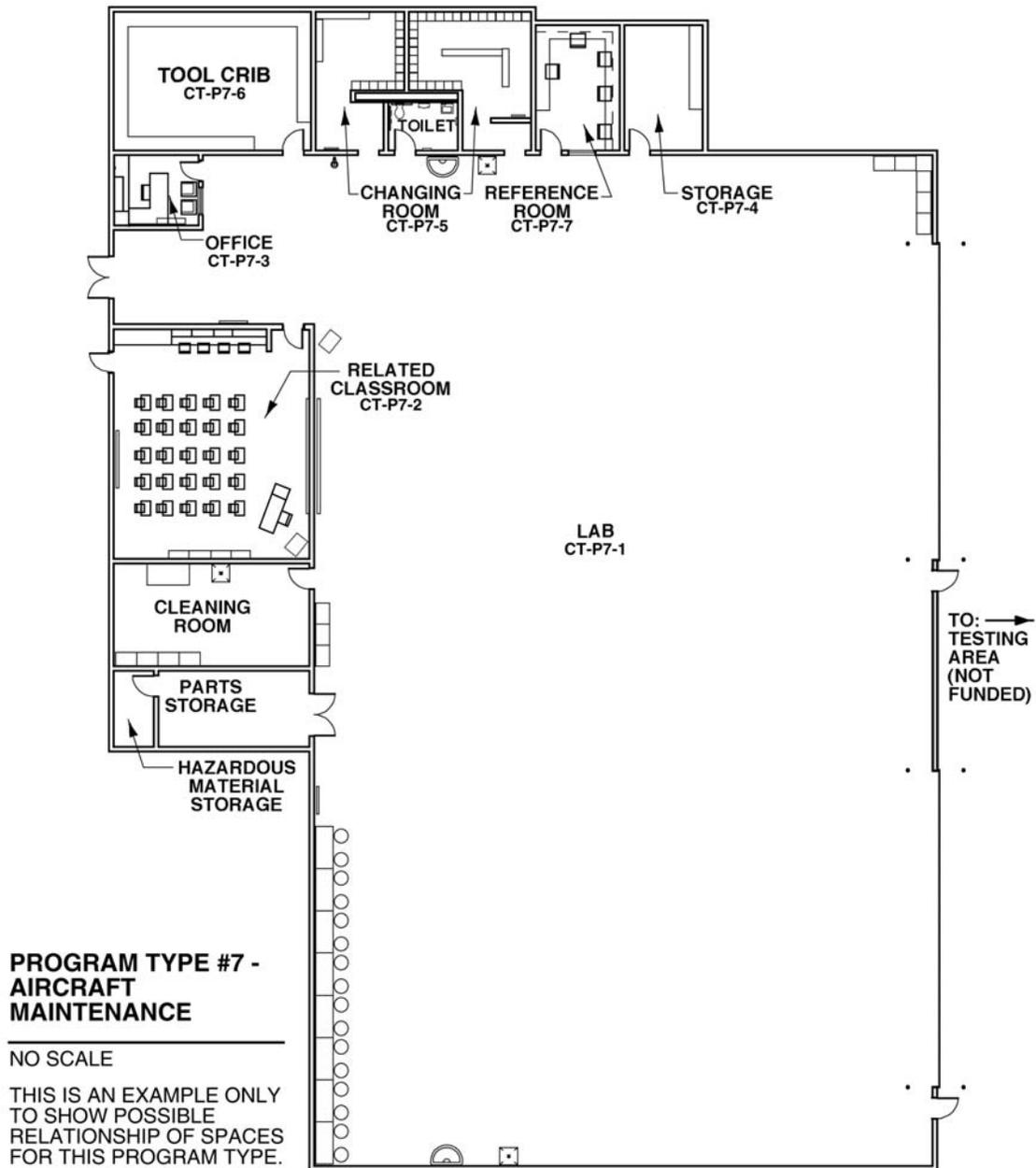
Support space to be finished with sealed concrete or vinyl composition tile, paint, and suspended acoustical ceiling. No air-conditioning of any spaces within Program Type 7.

**NOTES:**

This is an example of how the Program Type 7 spaces in a career-technical school could be arranged. This is meant only to demonstrate the relationships between various spaces of this area.

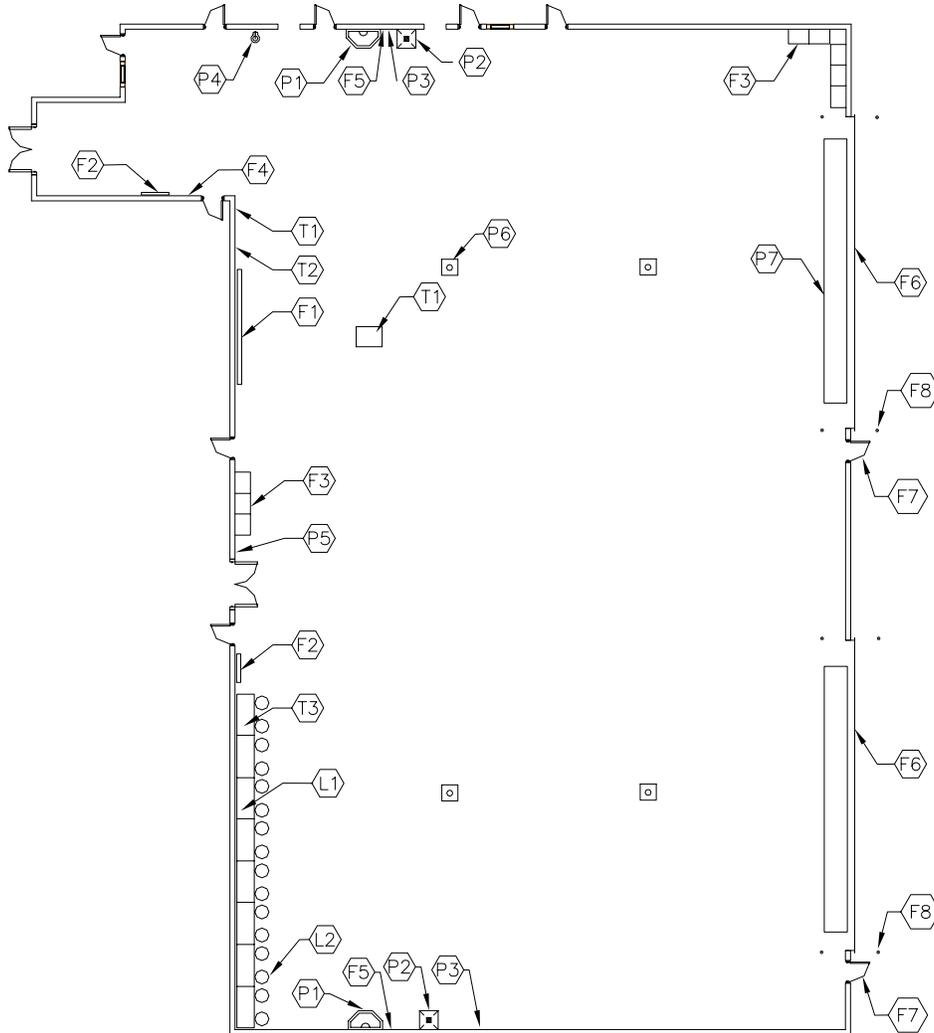
Following are the Program Type 7 space plates:

CT-P7-1	Lab
CT-P7-2	Related Classroom
CT-P7-3	Office
CT-P7-4	Storage
CT-P7-5	Changing Room
CT-P7-6	Tool Crib
CT-P7-7	Reference Room
CT-P7-8	Toilet Room



NOTES:

1. See lab descriptions within this section for specific lab requirements.
2. See individual space plates at the end of this section for specific requirements.



CAPACITY:	24 Students
SIZE:	8,000 – 13,000 SF (see lab summaries for exact sizes)
ANCILLARY SPACES:	CT-P7-2 thru CT-P7-8

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.
2. Graphic plate is an example only. Other labs within this program are not drawn – refer to lab summaries within this program type for information on a particular lab.

PROGRAM ACTIVITIES:

- Large and small group instruction
- Group and individual work
- Demonstrations

SPATIAL RELATIONSHIPS:

- Near other related labs
- Adjacent to typical support spaces
- Proximity to large group restrooms
- Located away from noisy or public activities
- Proximity to core academic area and common use areas
- Flexibility of space

ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting with 80% visual comfort probability level.
- Optional: Natural light opening equal to 5% minimum of floor area, with an operable vent
- Environmental sound control -
walls minimum STC 50
ceiling minimum CAC 35, NRC **0.70**
- Flexibility of space

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Loose Furnishings: Refer to Lab Profiles within this section.
3. Loose Furnishings, fixed equipment, utility locations, and general footprint of room shown represent one of many possible arrangements.

**AIRCRAFT MAINTENANCE
CT-P7-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p><u>PROGRAM DESCRIPTION:</u> Classroom and lab learning experiences concerned with the inspection, repair, servicing, and overhauling of all airplane parts, including engines, propellers, instruments, airframes, fuel and oil tanks, control cables and hydraulic units. Involves learning the use of technical manuals and various types of testing equipment.</p> <p>Program Type: 7</p> <p>Size Requirements: 13,000 SF Lab</p> <p>Lab Requirements:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 80%;"></td> <td style="text-align: right; vertical-align: bottom;">Spec. Ref #</td> </tr> <tr> <td><u>FINISHES:</u></td> <td></td> </tr> <tr> <td>Flooring:</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Sealed concrete</td> <td style="text-align: right;">033000</td> </tr> <tr> <td>Ceiling:</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Painted, exposed structure</td> <td style="text-align: right;">099100</td> </tr> <tr> <td>Walls:</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Painted concrete masonry units</td> <td style="text-align: right;">042000/ 099100</td> </tr> <tr> <td><u>LOOSE FURNISHINGS:</u></td> <td></td> </tr> <tr> <td>L1 (8) Workbenches with heavy-duty metal tops</td> <td></td> </tr> <tr> <td>L2 (24) Stools or chairs</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Wastebasket</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Pencil sharpener</td> <td></td> </tr> <tr> <td><u>Electronic Safety and Security:</u></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Life safety devices per code</td> <td style="text-align: right;">283111</td> </tr> <tr> <td><u>Miscellaneous:</u></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">N/A</td> <td></td> </tr> <tr> <td>The following items to be funded by the School District:</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Paint booth, paint prep station, paint mixing station</td> <td></td> </tr> </table>		Spec. Ref #	<u>FINISHES:</u>		Flooring:		Sealed concrete	033000	Ceiling:		Painted, exposed structure	099100	Walls:		Painted concrete masonry units	042000/ 099100	<u>LOOSE FURNISHINGS:</u>		L1 (8) Workbenches with heavy-duty metal tops		L2 (24) Stools or chairs		Wastebasket		Pencil sharpener		<u>Electronic Safety and Security:</u>		Life safety devices per code	283111	<u>Miscellaneous:</u>		N/A		The following items to be funded by the School District:		Paint booth, paint prep station, paint mixing station		<p><u>FEATURES¹:</u></p> <p><u>Fixed Items:</u></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 5%;">F1</td> <td style="width: 75%;">16' of chalk/marker board</td> <td style="width: 20%; text-align: right;">101100</td> </tr> <tr> <td>F2</td> <td>8' of tack board</td> <td style="text-align: right;">101100</td> </tr> <tr> <td>F3</td> <td>24' of tall storage cabinets</td> <td style="text-align: right;">123550</td> </tr> <tr> <td>F4</td> <td>Pencil sharpener support</td> <td style="text-align: right;">062000</td> </tr> <tr> <td>F5</td> <td>(4) Paper towel dispensers</td> <td style="text-align: right;">102813</td> </tr> <tr> <td>F6</td> <td>(2) 35'high x 45'long motorized overhead sectional doors to exterior</td> <td style="text-align: right;">083613</td> </tr> <tr> <td>F7</td> <td>(2) 3'x7' hollow metal service doors to exterior</td> <td style="text-align: right;">081113</td> </tr> <tr> <td>F8</td> <td>Steel bollards at overhead door, both sides</td> <td style="text-align: right;">055000</td> </tr> </table> <p><u>Fire Suppression:</u></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 80%;">Fire suppression system</td> <td style="width: 20%; text-align: right;">211000</td> </tr> </table> <p><u>Plumbing:</u></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 5%;">P1</td> <td style="width: 75%;">2 washfountains (minimum)</td> <td style="width: 20%; text-align: right;">224000</td> </tr> <tr> <td>P2</td> <td>2 utility sinks (minimum)</td> <td style="text-align: right;">224000</td> </tr> <tr> <td>P3</td> <td>3 hose bibbs (minimum)</td> <td style="text-align: right;">224000</td> </tr> <tr> <td>P4</td> <td>Safety shower/eyewash</td> <td style="text-align: right;">224000</td> </tr> <tr> <td>P5</td> <td>14 compressed air connections</td> <td style="text-align: right;">221500</td> </tr> <tr> <td>P6</td> <td>2 floor drains</td> <td style="text-align: right;">224000</td> </tr> <tr> <td>P7</td> <td>1 trench drain</td> <td style="text-align: right;">224000</td> </tr> <tr> <td></td> <td>Plumbing connections</td> <td style="text-align: right;">221116/221119/224000</td> </tr> </table> <p><u>HVAC:</u></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 80%;">Supply/return air system</td> <td style="width: 20%; text-align: right;">Div. 23</td> </tr> <tr> <td>Independent temperature control</td> <td style="text-align: right;">230923</td> </tr> </table> <p><u>Electrical:</u></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 80%;">High intensity lighting or fluorescent lighting</td> <td style="width: 20%; text-align: right;">265100</td> </tr> <tr> <td colspan="2">Illumination level: See Table 8600-4</td> </tr> <tr> <td>Multilevel switching</td> <td style="text-align: right;">262726</td> </tr> <tr> <td>40 duplex receptacles (minimum)</td> <td style="text-align: right;">262726</td> </tr> <tr> <td>Double duplex receptacle adjacent to each data and video port</td> <td style="text-align: right;">262726</td> </tr> <tr> <td>220v service</td> <td style="text-align: right;">262726</td> </tr> </table> <p><u>Communications:</u></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 5%;">T1</td> <td style="width: 75%;">1 video port and video display device</td> <td style="width: 20%; text-align: right;">271533/271543/274119</td> </tr> <tr> <td>T2</td> <td>1 voice port and phone</td> <td style="text-align: right;">271513/273113</td> </tr> <tr> <td>T3</td> <td>4 data ports</td> <td style="text-align: right;">271513</td> </tr> <tr> <td></td> <td>Clock</td> <td style="text-align: right;">275313</td> </tr> <tr> <td></td> <td>Central sound system</td> <td style="text-align: right;">275123</td> </tr> </table>	F1	16' of chalk/marker board	101100	F2	8' of tack board	101100	F3	24' of tall storage cabinets	123550	F4	Pencil sharpener support	062000	F5	(4) Paper towel dispensers	102813	F6	(2) 35'high x 45'long motorized overhead sectional doors to exterior	083613	F7	(2) 3'x7' hollow metal service doors to exterior	081113	F8	Steel bollards at overhead door, both sides	055000	Fire suppression system	211000	P1	2 washfountains (minimum)	224000	P2	2 utility sinks (minimum)	224000	P3	3 hose bibbs (minimum)	224000	P4	Safety shower/eyewash	224000	P5	14 compressed air connections	221500	P6	2 floor drains	224000	P7	1 trench drain	224000		Plumbing connections	221116/221119/224000	Supply/return air system	Div. 23	Independent temperature control	230923	High intensity lighting or fluorescent lighting	265100	Illumination level: See Table 8600-4		Multilevel switching	262726	40 duplex receptacles (minimum)	262726	Double duplex receptacle adjacent to each data and video port	262726	220v service	262726	T1	1 video port and video display device	271533/271543/274119	T2	1 voice port and phone	271513/273113	T3	4 data ports	271513		Clock	275313		Central sound system	275123
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NOTES:

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

**AIRCRAFT MAINTENANCE
Parts Storage**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p>Program Type: 7</p> <p>Size Requirements: 300 SF</p> <p>Requirements:</p> <p><u>FINISHES:</u> Flooring: Sealed concrete</p> <p>Ceiling: Fire-rated gypsum drywall</p> <p>Walls: Painted concrete masonry units</p> <p><u>LOOSE FURNISHINGS:</u> N/A</p> <p><u>ENVIRONMENTAL CONSIDERATIONS:</u></p> <ul style="list-style-type: none"> ▪ Wall minimum STC 45 ▪ This room to be one-story (14' +/-) tall, located within high-bay program. 	<p style="text-align: right;">Spec. Ref.#</p> <p><u>FEATURES¹:</u> <u>Fixed Items:</u> 30' of heavy duty steel adjustable shelving</p> <p><u>Fire Suppression:</u> Fire suppression system</p> <p><u>Plumbing:</u> N/A</p> <p><u>HVAC:</u> Supplemental heat as required Independent ventilation</p> <p><u>Electrical:</u> Fluorescent lighting Illumination level: See Table 8600-4 Single level switching 2 duplex receptacles</p> <p><u>Communications:</u> Central sound system</p> <p><u>Electronic Safety and Security:</u> Life safety devices per code</p> <p><u>Miscellaneous:</u> N/A</p>
	<p>105613</p> <p>211000</p> <p>033000</p> <p>092113</p> <p>042000/ 099100</p> <p>265100</p> <p>262726</p> <p>262726</p> <p>275123</p> <p>283111</p>

NOTES:

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

**AIRCRAFT MAINTENANCE
Hazardous Material Storage**

Program Type: 7	Spec. Ref #	<u>FEATURES¹:</u>	Spec. Ref.#
Size Requirements: 60 SF		<u>Fixed Items:</u> N/A	
Requirements:		<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>FINISHES:</u>		<u>Plumbing:</u>	
Flooring:		N/A	
Sealed concrete	033000	<u>HVAC:</u>	
		Supplemental heat as required	Div. 23
Ceiling:		<u>Electrical:</u>	
Fire-rated gypsum drywall	092116	Fluorescent lighting	265100
Walls:		Illumination level: See Table 8600-4	
Painted concrete masonry units	042000/ 099100	Single level switching	262726
		2 duplex receptacles	262726
<u>LOOSE FURNISHINGS:</u>		<u>Communications:</u>	
N/A		Central sound system	275123
<u>ENVIRONMENTAL CONSIDERATIONS:</u>		<u>Electronic Safety and Security:</u>	
<ul style="list-style-type: none"> ▪ Wall minimum STC 45 ▪ This room to be one-story (14'+/-) tall, located within high-bay program. 		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

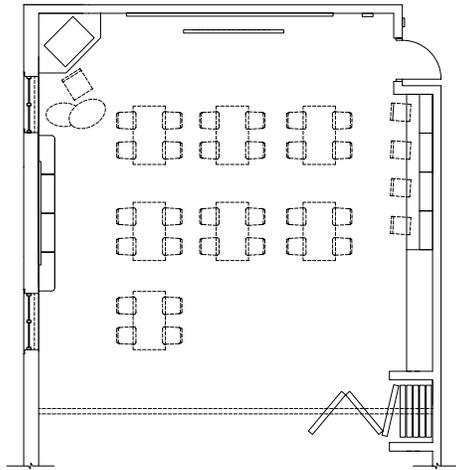
**ANIMAL SCIENCE AND MANAGEMENT - EQUINE
CT-P7-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

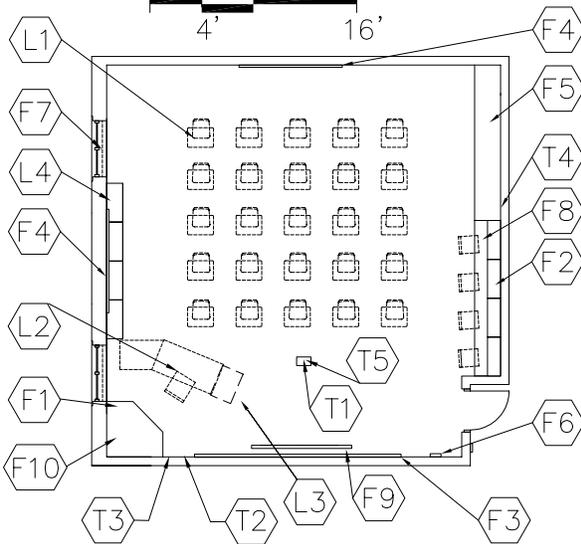
<u>PROGRAM DESCRIPTION:</u>	Applies principles of anatomy and physiology, nutrition, reproduction, health, and genetics and behavior to the production, management, marketing, and training of domestic animals.	<u>FEATURES¹:</u>	Spec.
Program Type:	7	<u>Fixed Items:</u>	<u>Ref.#</u>
Size Requirements:	8,000 SF Lab	180' of metal pipe rail fencing	055000
Lab Requirements:	Spec. <u>Ref #</u>	12' x 14' motorized overhead	
<u>FINISHES:</u>	Flooring:	sectional door to exterior	083613
Compacted earth		3'x7' hollow metal service door	
Ceiling:	099100	to exterior	081113
Painted, exposed structure		Steel bollards at overhead door,	
Walls:	099100	both sides	055000
Painted exposed structure		<u>Fire Suppression:</u>	
<u>LOOSE FURNISHINGS:</u>	N/A	Fire suppression system	211000
<u>SITE FEATURE:</u>	Plan for the following if required by school curriculum requirements:	<u>Plumbing:</u>	
Fenced riding area		2 hose bibbs (minimum)	224000
		Plumbing connections	221116/221119/224000
		<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Independent temperature control	230923
		<u>Electrical:</u>	
		High intensity lighting or	265100
		fluorescent lighting	
		Illumination level: See Table 8600-4	
		Multilevel switching	262726
		12 duplex receptacles (minimum)	262726
		<u>Communications:</u>	
		1 voice port and phone	271513/273113
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



CLASSROOM WITH OPTIONAL FOLDING WALL



TYPICAL CLASSROOM

CAPACITY: 25 students
SIZE: 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 related lab
- 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
- Proximity to main corridor to accommodate other students without interrupting lab

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

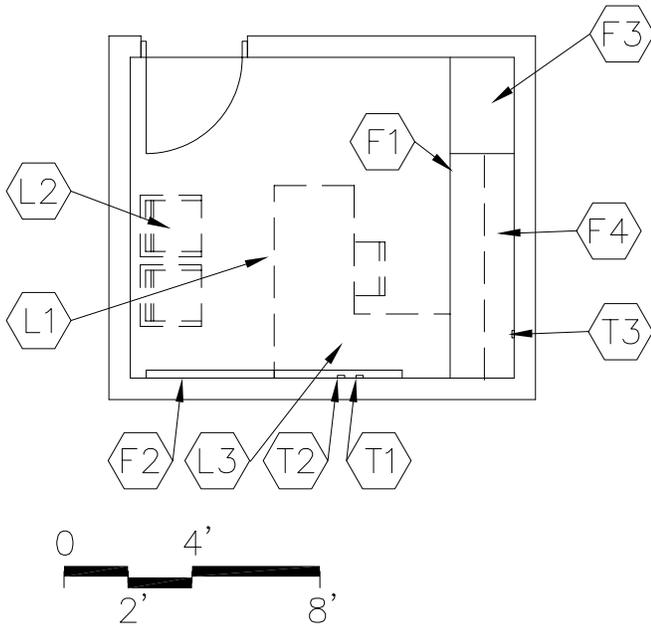
**RELATED CLASSROOM
CT-P7-2**

CHAPTER 6: CAREER-TECHNICAL HIGH SCHOOL

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

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Technology components may be placed in a separate small cabinet, or integrated in the other casework in the room.
3. Where appropriate, some casework may be mobile to add flexibility and become part of the loose furnishings.



PROGRAM ACTIVITIES:

- Private space for program instructor
- One-on-one conferences with academic instructors, students, etc.

SPATIAL RELATIONSHIPS:

- Near related lab
- Direct access to school circulation areas

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY: 1 - 3 persons
SIZE: 120 SF

NOTES:

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

**OFFICE
CT-P7-3**

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

NOTES:

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

PROGRAM ACTIVITIES:

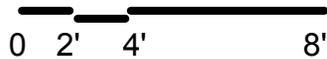
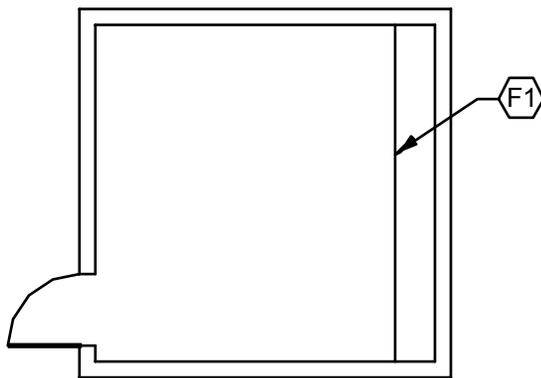
- Space for storage of lab equipment

SPATIAL RELATIONSHIPS:

- Near related lab

ENVIRONMENTAL CONSIDERATIONS:

N/A



CAPACITY:
SIZE:

N/A
200 SF

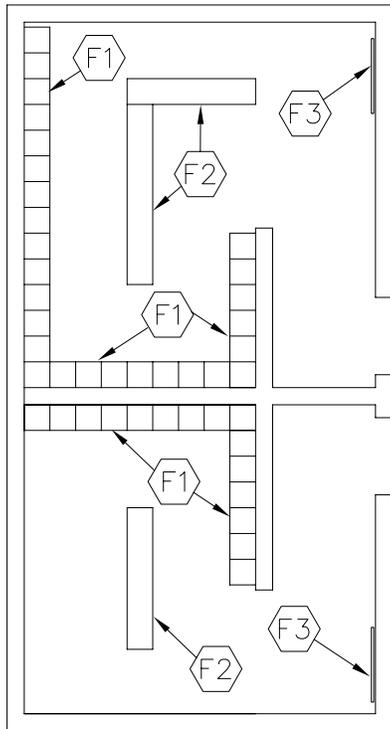
NOTES:

**STORAGE AREA
CT-P7-4**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items¹:</u>	
Sealed concrete	033000	F1 8'-20' of open shelving	
		Depth may vary (fixed or loose)	123550
Base:		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Exposed structure	---	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>	
N/A		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		Duplex receptacles	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



PROGRAM ACTIVITIES:

- Personal and health needs for the program Specific users.
- Changing of clothes and/or uniforms.
- Storage of personal items while students are in lab.

SPATIAL RELATIONSHIPS:

- Adjacent to related lab

ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting
- Sanitary and durable finishes.
- Environmental sound control
Wall minimum STC 40
Ceiling minimum CAC 35, NRC **0.70**

CAPACITY: N/A
SIZE: 9 SF per student (see Note 2)

NOTES:

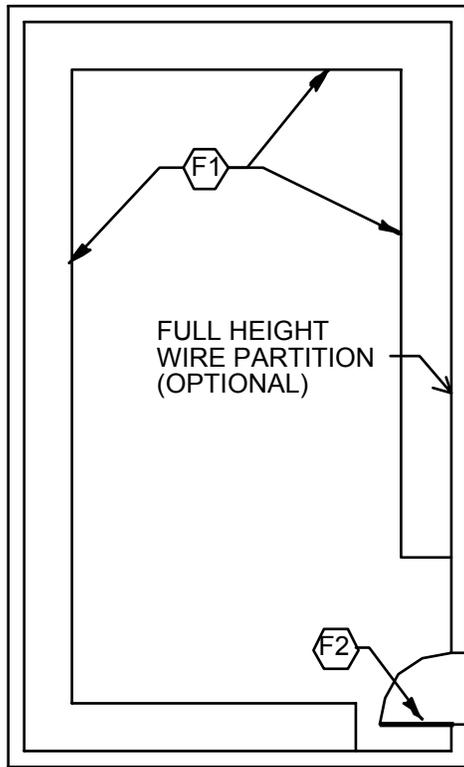
1. Large and small changing areas are interchangeable for either males or females.
Determination based on male/female ratio within each program.
2. Student count determined by total number of approved program spaces Types 5, 6, and 7 times 30.

**CHANGING ROOM
CT-P7-4**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items¹:</u>	
Sealed concrete	033000	F1 Student lockers	105113
Optional: Vinyl composition tile, linoleum, or rubber	096500 096516	F2 Locker benches	062000
		F3 24" x 60" mirror	102813
<u>Base:</u>		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
<u>Ceiling:</u>		<u>Plumbing:</u>	
Suspended, acoustical with high impact hold down clips	095113	N/A	
<u>Walls:</u>		<u>HVAC:</u>	
Painted concrete masonry units 042000 / 099100		Supply/Return air system	Div. 23
		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		Individual temperature control	230923
<u>LOOSE FURNISHINGS</u>		<u>Electrical:</u>	
Wastebaskets		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		2 Duplex receptacles	262726
		Means of egress lighting per code	265100
		<u>Communications:</u>	
		Clock	275313
		Central Sound System	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



CAPACITY: N/A
 SIZE: 550 SF
 ANCILLARY SPACES:

PROGRAM ACTIVITIES:

- Storage of program related tools and instruments.
- Storage of students' tools.

SPATIAL RELATIONSHIPS:

- Adjacent to related lab

ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting
- Sanitary and durable finishes

NOTES:

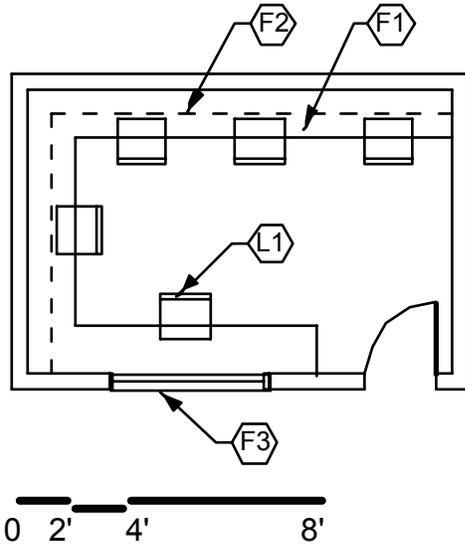
**TOOL CRIB
CT-P7-6**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES</u>¹:		<u>FEATURES</u>¹:	
Flooring:		<u>Fixed Items</u>¹:	
Sealed concrete	033000	F1 80' of open metal shelving (total), Depth may vary (fixed or loose)	105613
Optional: Vinyl composition tile, linoleum, or rubber	096500 096516	F2 Dutch door	105613
Base:		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Suspended, acoustical	095113	N/A	
Walls:		<u>HVAC:</u>	
Painted concrete masonry units	042000 / 099100	Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
<u>LOOSE FURNISHINGS</u>		<u>Electrical:</u>	
N/A		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		4 Duplex receptacles	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



PROGRAM ACTIVITIES:

- Individual computer research.
- Reference program specific manuals.
- Small group meetings.

SPATIAL RELATIONSHIPS:

- Adjacent to related lab

ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting
- Sanitary and durable finishes
- Environmental sound control
Wall minimum STC 50
Ceiling minimum CAC 35, NRC **0.70**

CAPACITY:
SIZE:

N/A
200 SF

NOTES:

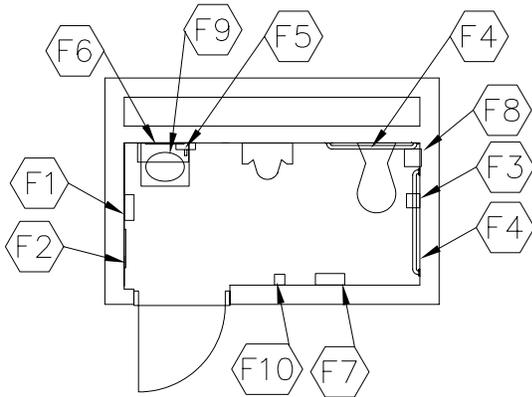
**REFERENCE ROOM
CT-P7-7**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<u>Fixed Items:</u>	
Sealed concrete	033000	F1 34' of plastic laminate counter	062000
Optional: Vinyl composition tile,	096500	F2 27' of adjustable shelving	062000
		F3 Interior window	081113/ 088000
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
		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
<u>LOOSE FURNISHINGS</u>		<u>Electrical:</u>	
L3 Student chairs		Single level switching	262726
Wastebasket		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		2 Duplex receptacles	262726
		Duplex receptacle adjacent to	
		Each data and video port	262726
		<u>Communications:</u>	
		T1 6 data ports	271513
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



PROGRAM ACTIVITIES:

- Personal and health needs for the program
- Specific users
- Changing of clothes and/or uniforms.

SPATIAL RELATIONSHIPS:

- Adjacent to related lab

ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting
- Sanitary and durable finishes.
- Environmental sound control
 Wall minimum **STC 48**
 Ceiling minimum **CAC 35, NRC 0.70**

CAPACITY:
SIZE:

N/A
68 SF

NOTES:

**TOILET ROOM
CT-P7-8**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

	Spec. Ref.#
<u>FINISHES¹:</u>	
Sealed concrete	033000
Optional: Vinyl composition tile	096500
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000 / 099100

LOOSE FURNISHINGS
Wastebaskets

	Spec. Ref.#
<u>FEATURES¹:</u>	
<u>Fixed Items:</u>	
F1 Towel dispenser	102813
F2 24" x 60" mirror	102813
F3 Toilet tissue holder	102813
F4 36" and 42" grab bars	102813
F5 Soap dispenser	102813
F6 16" x 24" mirror	102813
F7 Sanitary product dispenser	102813
F8 Sanitary product receptacle	102813
F9 Stainless steel shelf (optional)	102813
F10 Coat hook	102813

<u>Fire Suppression:</u>	
Fire suppression system	211000

<u>Plumbing:</u>	
Plumbing connections	221116/221119/224000

<u>HVAC:</u>	
Supply/return air system	Div. 23
Exhaust air system	Div. 23
Supplemental heat as required	Div. 23
Individual temperature control	230923

<u>Electrical:</u>	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
2 Duplex receptacles	262726
Means of egress lighting per code	265100

<u>Communications:</u>	
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.